

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: LGI_Homes
Burke Floor

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource (Albermarle,NC).

Pages or sheets covered by this seal: E12213212 thru E12213226

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

North Carolina COA: C-0844



September 18, 2018

Gilbert, Eric

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.

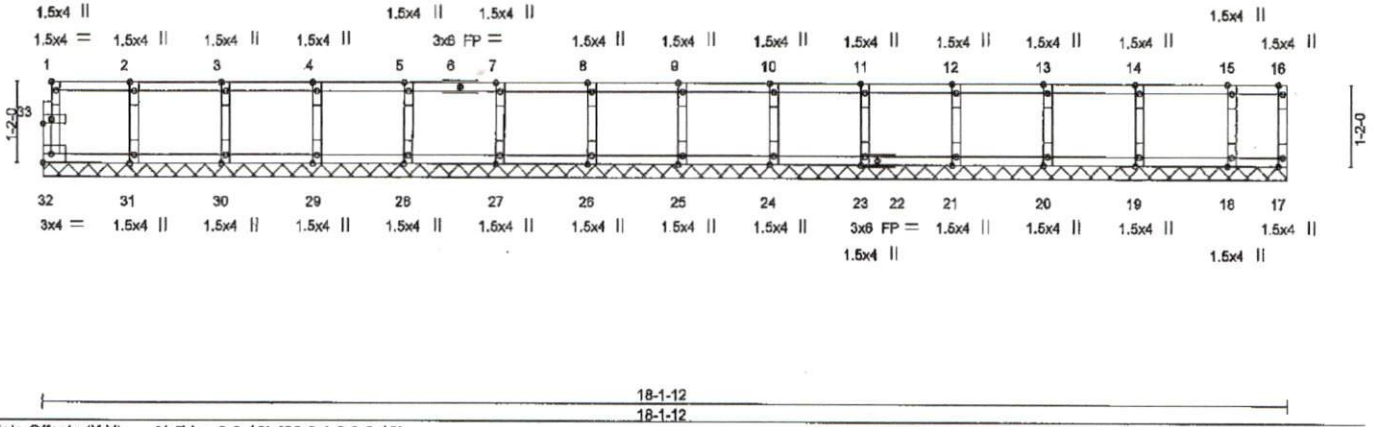
Job LGL_HOMES	Truss F1E	Truss Type Floor Supported Gable	Qty 2	Ply 1	Burke Floor	E12213212
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Probuild East, Albemarle, NC 28001

8.220 s May 24 2018 MITEK Industries, Inc. Tue Sep 18 09:26:33 2018 Page 1
ID:r7hMoJZbxPenI_bpb7z5FgypDqB-M9bRrt0SxUQzOV3aZkKPCQE3v5qlpweOsczGMSycRrA

0-118

Scale = 1:30.7



LOADING (psf)		SPACING-		CSI.	DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	in (loc)	V/defl	L/d	MT20	244/190
TGDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(LL)	n/a	-	n/a	999
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Vert(TL)	n/a	-	n/a	999
BCDL	5.0	Code	IRC2009/TPI2007	Matrix-R		Horz(TL)	0.00	17	n/a	n/a
								Weight:	75 lb	FT = 20%F, 11%E

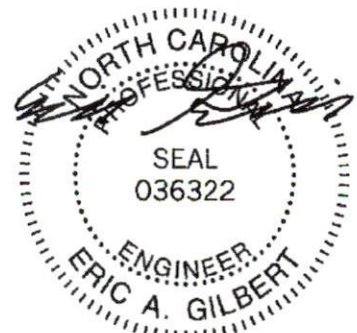
LUMBER-
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 8'-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS. All bearings 18-1-12.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 24, 23, 21, 20, 19, 18

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

- NOTES-**
- Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1'-4-0 oc.
 - 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.
 - CAUTION, Do not erect truss backwards.



September 18, 2018

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIJ-7473 rev. 10/03/2016 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, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, D8B-89 and BCSJ Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MITEK AFFILIATE 818 Soundside Road Edenton, NC 27832</p>
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Job LGI_HOMES	Truss F2	Truss Type Floor	Qty 8	Ply 1	Burke Floor	E12213213
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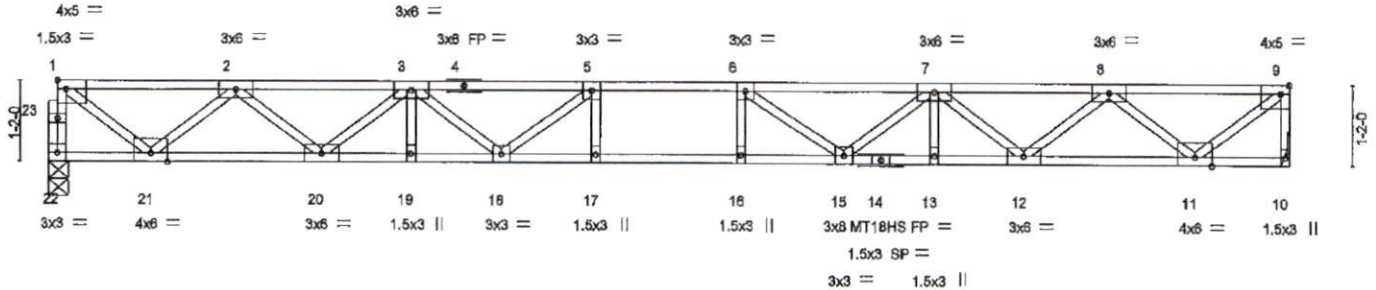
Probuld East, Albemarle, NC 28001

8:220 s May 24 2018 MITek Industries, Inc. Tue Sep 18 09:26:33 2018 Page 1
ID:r7hMoJZbxPenl_bpb7z5FgypDqB-M9bRr10SxUQzOV3aZkKPCqEta5bcprmeOacZGMSycRRa

0-1-8



Scale = 1:30.8



1-6-0	4-0-0	6-7-8	8-0-14	9-0-14	10-0-14	11-7-12	14-3-4	16-9-4	18-1-12
1-6-0	2-6-0	2-7-8	1-5-8	1-0-0	1-0-0	1-6-14	2-7-8	2-6-0	1-4-8

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

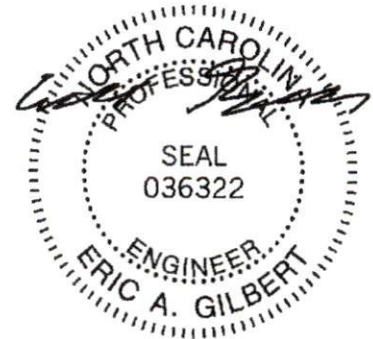
LOADING (psf)	SPACING -	2-0-0	CSI	DEFL.	In (oc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.87	Vert(LL)	-0.31 16-17	>694	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.98	Vert(TL)	-0.49 16-17	>443	240	MT18HS	244/190
BCLL 0.0	Rep Strass Incr	YES	WB 0.67	Horz(TL)	0.08 10	n/a	n/a		
BCDL 5.0	Code IRC2009/TP12007		Matrix-SH						
								Weight: 91 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP DSS(flat) *Except* 10-14: 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 13-15,12-13.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 22=981/0-3-8, 10=988/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-22=-976/0, 9-10=-981/0, 1-2=-1155/0, 2-3=-2851/0, 3-5=-3675/0, 5-6=-4228/0,
 6-7=-3857/0, 7-8=-2821/0, 8-9=-1104/0
 BOT CHORD 20-21=0/2174, 19-20=0/3537, 18-19=0/3537, 17-18=0/4228, 16-17=0/4228, 15-16=0/4228,
 13-15=0/3515, 12-13=0/3515, 11-12=0/2132
 WEBS 1-21=0/1400, 2-21=-1326/0, 2-20=0/880, 3-20=-876/0, 3-18=0/490, 5-18=-714/3,
 9-11=0/1410, 8-11=-1338/0, 8-12=0/896, 7-12=-886/0, 7-15=0/488, 6-15=-718/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) The Fabrication Tolerance at joint 14 = 11%
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Recommend 2x8 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.
 - 6) CAUTION, Do not erect truss backwards.



September 18, 2018

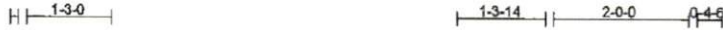
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 10/03/2016 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MITek Affiliate 818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Burke Floor	E12213214
LGI_HOMES	F3	Floor	5	1		

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8.220 s May 24 2018 MITek Industries, Inc. Tue Sep 18 09:28:34 2018 Page 1
 ID:r7hMoJzBxPenl_bpb7z5FgypDqB-ql.8p3D14lnYqOfen7Sse8em1zVxXYDpXpGiquuycRRZ

0-1-8



0-1-8
Scale = 1:31.1

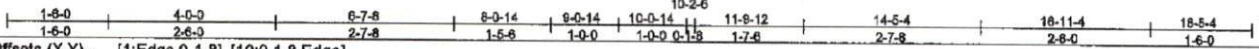
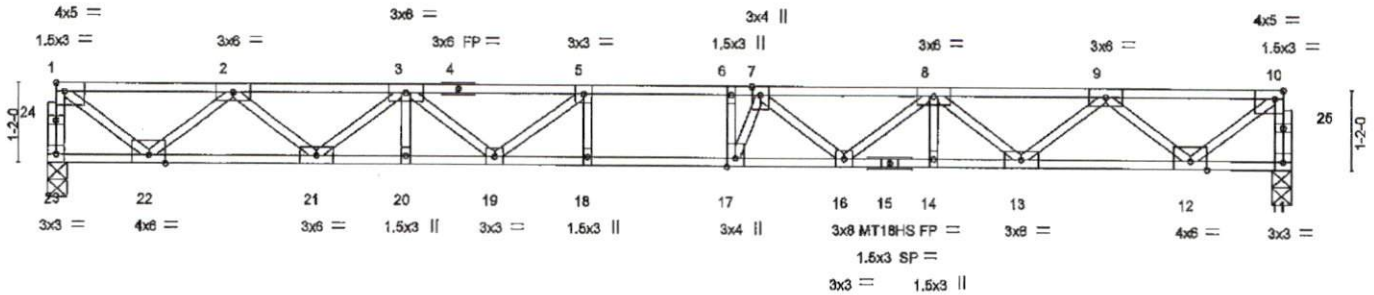


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [10:0-1-8,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.96	Vert(LL)	-0.35 17-18	>633	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 1.00	Vert(TL)	-0.54 17-18	>404	240	MT18HS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.68	Horz(TL)	0.09 11	n/a	n/a		
BCDL 5.0	Code IRC2009/TPI2007	Matrix-SH					Weight: 94 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.1(flat) *Except*
 11-15: 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing.

REACTIONS. (lb/size) 23=994/0-3-8, 11=994/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-23=989/0, 10-11=989/0, 1-2=1172/0, 2-3=2898/0, 3-5=3958/0, 5-6=4323/0,
 6-7=4323/0, 7-8=3961/0, 8-9=2898/0, 9-10=1173/0
 BOT CHORD 21-22=0/2207, 20-21=0/3596, 19-20=0/3596, 18-19=0/4323, 17-18=0/4323, 16-17=0/4294,
 14-16=0/3594, 13-14=0/3594, 12-13=0/2208
 WEBS 6-17=415/210, 1-22=0/1421, 2-22=1347/0, 2-21=0/900, 3-21=892/0, 3-19=0/630,
 5-19=899/0, 10-12=0/1421, 9-12=1348/0, 9-13=0/898, 8-13=889/0, 8-16=0/469,
 7-16=542/0, 7-17=362/617

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) The Fabrication Tolerances at joint 15 = 11%
 - 4) 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.
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 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Burke Floor	E12213215
LGI_HOMES	F4E	Floor Supported Gable	1	1		

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8.220 s May 24 2018 MITek Industries, Inc. Tue Sep 18 09:26:35 2018 Page 1
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0-1-8

Scale = 1:26.8

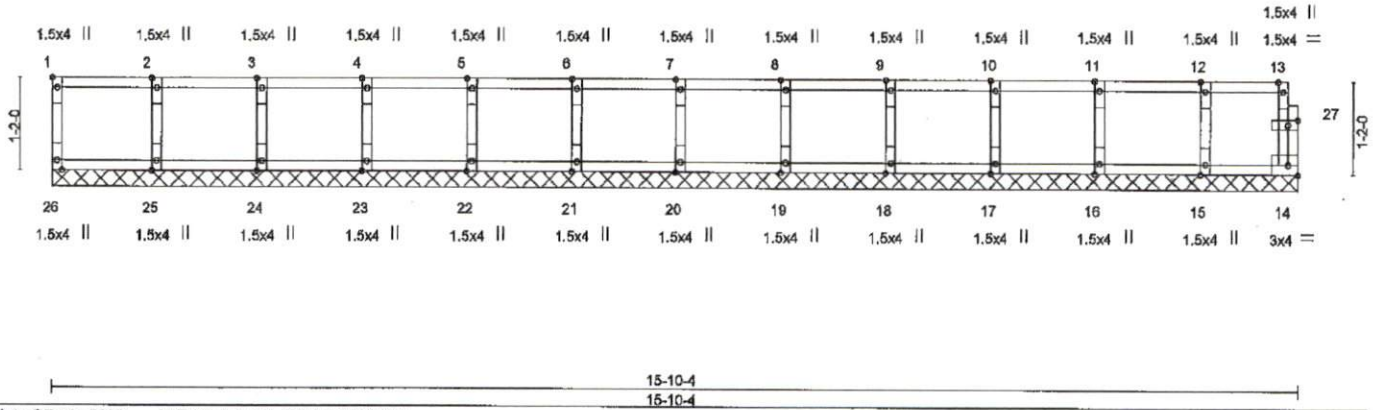


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [27:0-1-8,0-0-12]

LOADING (psf)	SPACING-	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(TL)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(TL)	0.00	14	n/a	n/a		
BCDL 5.0	Code IRC2009/TPI2007		Matrix-R							
									Weight: 66 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

BRACING-

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

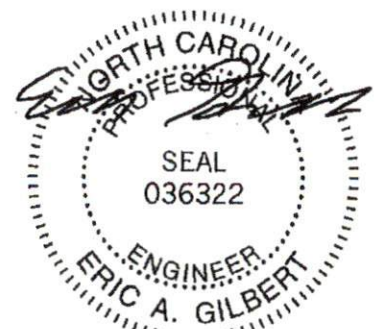
REACTIONS. All bearings 15-10-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

NOTES-

- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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.
- CAUTION, Do not erect truss backwards.



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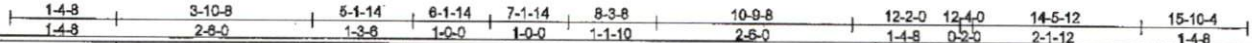
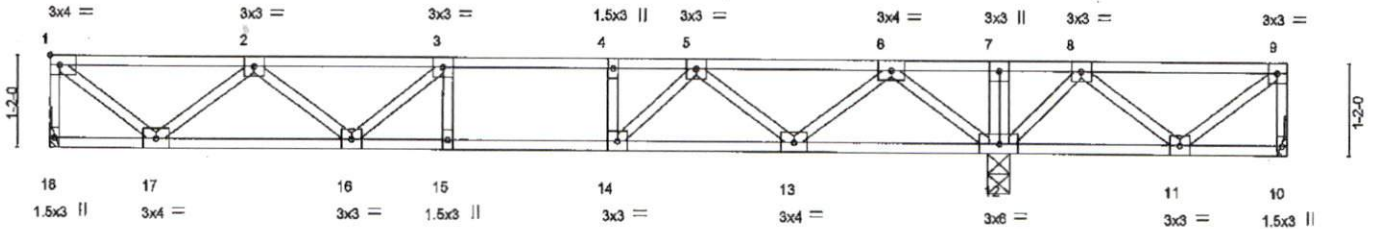
Job LGI_HOMES	Truss F5	Truss Type Floor	Qty 2	Ply 1	Burke Floor	E12213216
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Probuild East, Albemarle, NC 28001

8.220 s May 24 2018 MITek Industries, Inc. Tue Sep 18 09:26:36 2018 Page 1
ID:r7hMoJZbxPenI_bpb7z5FgypDqB-nkGaUu3KEPoYFzo9Fsu6D3rSwfgC0C2qHaBwzncRRX



Scale = 1:26.9



LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2009/TPI2007	2-0-0 1-0-0 1-0-0 1-0-0	CSI. TC 0.81 EC 0.80 WB 0.37 Matrix-SH	DEFL. in (loc) l/defl L/d Vert(LL) -0.10 15-16 >999 480 Vert(TL) -0.15 15-16 >980 240 Horz(TL) 0.02 12 n/a n/a	PLATES MT20	GRIP 244/180	Weight: 80 lb FT = 20%F, 11%E
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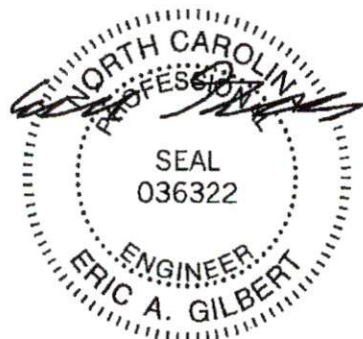
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 12-13,11-12.

REACTIONS. (lb/size) 18=591/Mechanical, 10=46/Mechanical, 12=1185/0-3-8
Max Uplift 10=186(LC 2)
Max Grav 18=593(LC 2), 10=125(LC 3), 12=1185(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=586/0, 1-2=613/0, 2-3=1374/0, 3-4=1477/0, 4-5=1477/0, 5-6=806/0, 6-7=0/992, 7-8=0/992, 8-9=20/266
BOT CHORD 16-17=0/1180, 15-16=0/1477, 14-15=0/1477, 13-14=0/1149, 11-12=537/18
WEBS 4-14=261/0, 1-17=0/783, 2-17=738/0, 2-16=0/254, 6-12=1127/0, 6-13=0/700, 5-13=709/0, 5-14=0/536, 9-11=340/25, 8-11=0/353, 8-12=681/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 10.
 - Recommend 2x8 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.
 - CAUTION, Do not erect truss backwards.



September 18, 2018

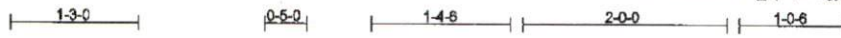
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TRENCO
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A MITEK AFFILIATE
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Burke Floor	E12213217
LGI_HOMES	F6	Floor	1	1		

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8.220 s May 24 2018 MITek Industries, Inc. Tue Sep 18 09:26:36 2018 Page 1
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Scale = 1:20.8

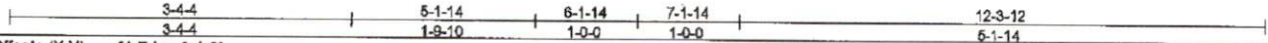
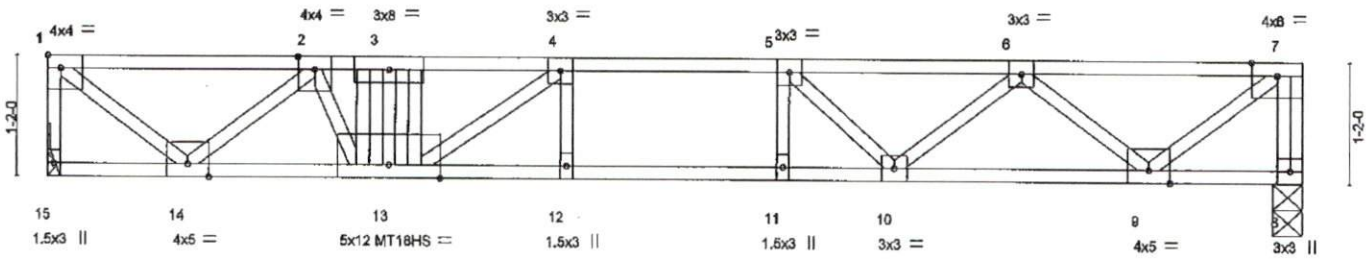


Plate Offsets (X,Y)-- [1:Edge,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	In (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.72	Vert(LL)	-0.15 12-13	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.97	Vert(TL)	-0.21 12-13	>680	240	MT18HS	244/190
BCLL 0.0	Rep Stress Incr	NO	WB 0.60	Horz(TL)	0.03 8	n/a	n/a		
BCDL 5.0	Code IRC2009/TPI2007		Matrix-SH						
								Weight: 68 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.1(flat)
 WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 15=896/Mechanical, B=752/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-15=-886/0, 7-8=-749/0, 1-2=-983/0, 2-3=-2291/0, 3-4=-2283/0, 4-5=-2402/0, 5-6=-1989/0, 6-7=-843/0
 BOT CHORD 13-14=0/1812, 12-13=0/2402, 11-12=0/2402, 10-11=0/2402, 9-10=0/1575
 WEBS 3-13=-441/0, 7-9=0/1058, 8-9=-953/0, 6-10=0/572, 5-10=-698/0, 1-14=0/1255, 2-14=-1209/0, 2-13=0/649, 4-13=-509/145

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - CAUTION, Do not erect truss backwards.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 315 lb down at 3-4-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (psf)
 Vert: 8-15=-10, 1-7=-100
 Concentrated Loads (lb)
 Vert: 3=-315(F)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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ENGINEERING BY
TRENCO
 A MITek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Burke Floor	E12213218
LGI_HOMES	F7	Floor	1	1		

Probuild East, Albemarle, NC 28001

8.220 s May 24 2018 M/Tek Industries, Inc. Tue Sep 18 09:26:37 2018 Page 1
 ID:r7hMoJZbxPenl_bpb7z5FgypDqB-FwqyhE3y_wPI7NMoaPlmGOZai3Flgr_VExUVDycRRW



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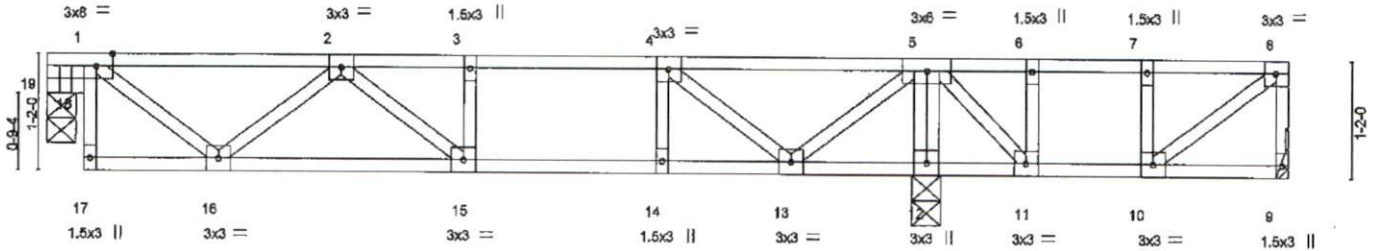


Plate Offsets (X,Y) - [1:0-2-0,Edge], [19:0-0-12,0-1-10]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.85	Vert(LL)	-0.06 15-16	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.55	Vert(TL)	-0.10 15-16	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.27	Horz(TL)	0.01 9	n/a	n/a		
BCDL 5.0	Code IRC2009/TP12007		Matrix-SH						
								Weight: 65 lb	FT = 20%F, 11%E

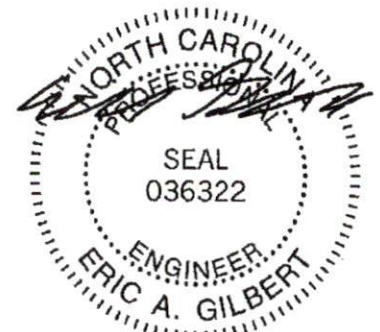
LUMBER-
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 12-13,11-12.

REACTIONS. (lb/size) 9=193/Mechanical, 12=688/0-3-8, 19=455/0-3-8
 Max Grav 9=235(LC 4), 12=688(LC 1), 19=458(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=548/0, 2-3=960/0, 3-4=960/0, 4-5=498/0
 BOT CHORD 15-16=0/907, 14-15=0/960, 13-14=0/960
 WEBS 5-12=870/0, 1-16=0/545, 5-13=0/574, 2-16=-467/0, 4-13=-611/0, 8-10=0/293, 5-11=0/258, 1-19=-643/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Bearing at joint(s) 19 considers parallel to grain value using ANSITP1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 4) 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.
 - 5) CAUTION, Do not erect truss backwards.



September 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE ME-7473 rev. 10/03/2015 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, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP1 Quality Criteria, DSR-88 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Leo Street, Suite 312, Alexandria, VA 22314.

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TRENCO
 A MITEK AFFILIATE

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Burke Floor	E12213219
LGI_HOMES	F8	Floor	1	1		

Probuild East, Albemarle, NC 28001

8.220 s May 24 2018 MITek Industries, Inc. Tue Sep 18 09:26:38 2018 Page 1
 ID:r7hMoJZbxPenL_bpb7z6FgypDqB-j6OKva4eI02FVHyYMIHwalUxvn6V7UAa7kug11fycRRV

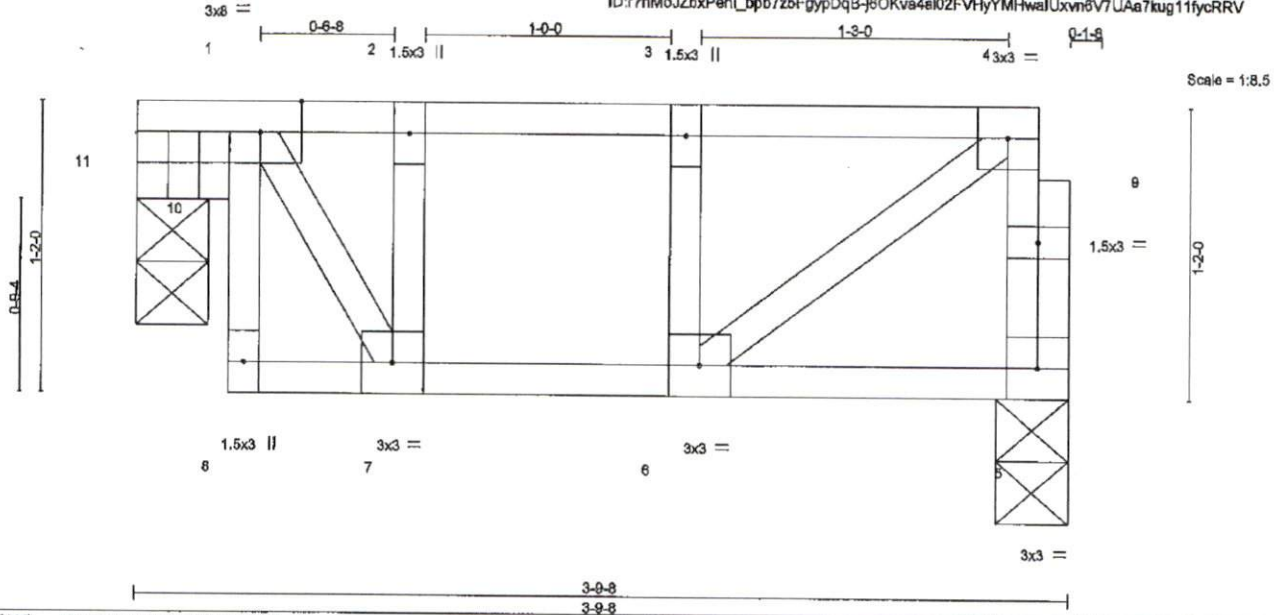


Plate Offsets (X,Y) - [1:0-2-0,Edge], [11:0-0-12,0-1-10]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	In (loc)	V/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.13	Vert(LL)	-0.01	6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.13	Vert(TL)	-0.01	6	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.11	Horz(TL)	0.00	6	n/a		
BCDL 5.0	Code IRC2009/TPI2007		Matrix-P						
								Weight: 22 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=182/0-3-8, 11=167/0-3-8

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

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 3) 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.
- 4) CAUTION, Do not erect truss backwards.



September 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 10/03/2016 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, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria, DSB-89 and BCS Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

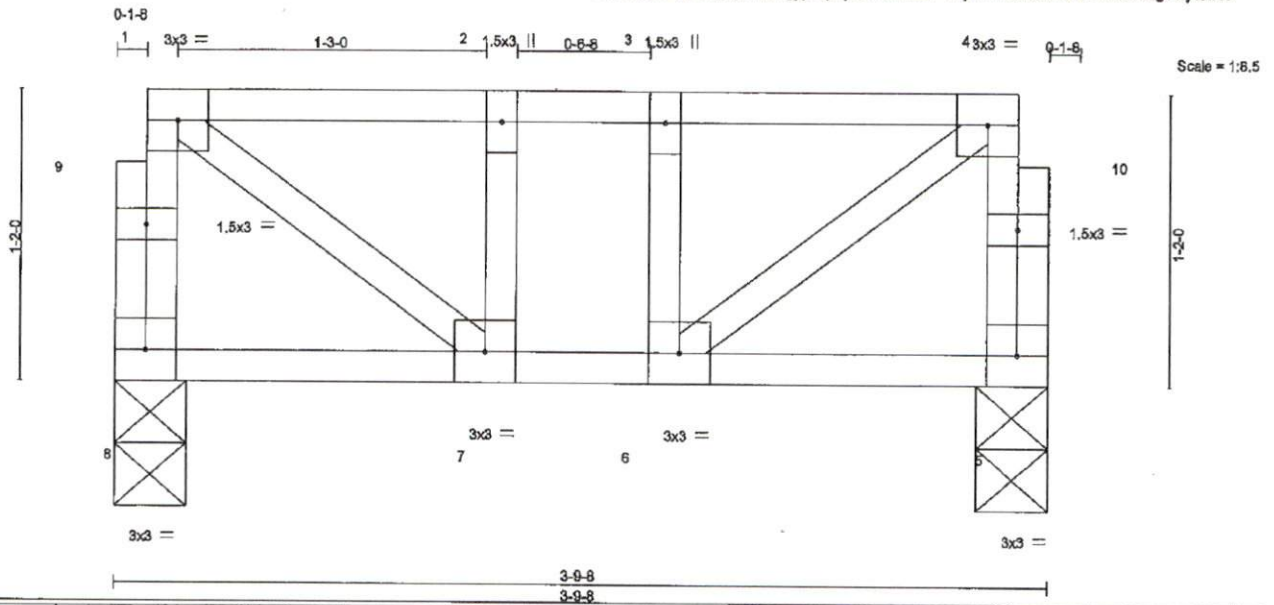
ENGINEERING BY
TRENCO
 A MITEK AFFILIATE

818 Soundside Road
 Eden, NC 27632

Job	Truss	Truss Type	Qty	Ply	Burke Floor	E12213220
LGI_HOMES	F9	Floor	3	1		

Probuild East, Albemarle, NC 28001

8.220 s May 24 2018 MITek Industries, Inc. Tue Sep 18 09:26:38 2018 Page 1
 ID:r7hMoJZbxPen_bp67z5FgypDqB-6OKva4al02FVHyYMhwalUxw46WwUAs7kug11fycRRV



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.12	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.08	Vert(LL) -0.00 7 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.10	Vert(TL) -0.00 7 >999 240		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(TL) 0.00 5 n/a n/a		
	Code IRC2009/TPI2007			Weight: 23 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=189/0-3-8, 5=189/0-3-8

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

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) 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.



September 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

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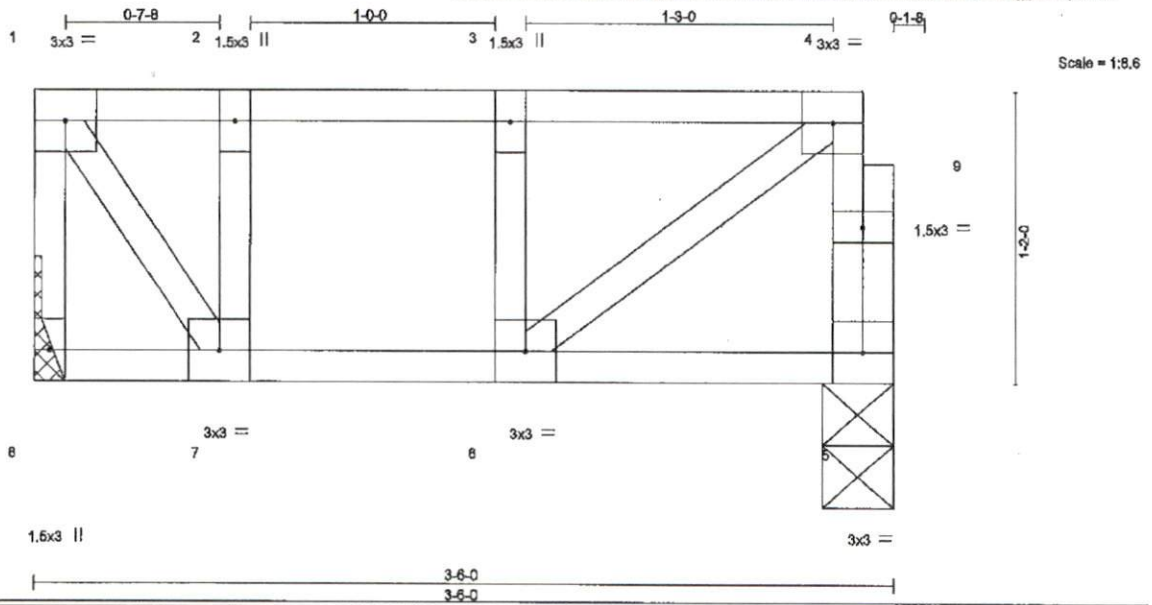
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TRENCO
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816 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Burke Floor	E12213221
LGI_HOMES	F10	Floor	2	1		

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8.220 s May 24 2018 MITek Industries, Inc. Tue Sep 18 09:26:29 2018 Page 1
 ID:r7hMoJZbxPenl_bpb7z5FgypDqB-UJO!w0VzxtFvXwumpKuGTRa3M6URut6Qog_?3DhycRRc



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.13	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.14	Vert(LL) -0.01 6 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.11	Vert(TL) -0.01 6 >999 240		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(TL) 0.00 5 n/a n/a		
	Code IRC2009/TPI2007			Weight: 21 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=182/Mechanical, 5=176/0-3-8

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

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) 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.
- 4) CAUTION, Do not erect truss backwards.



September 18, 2018

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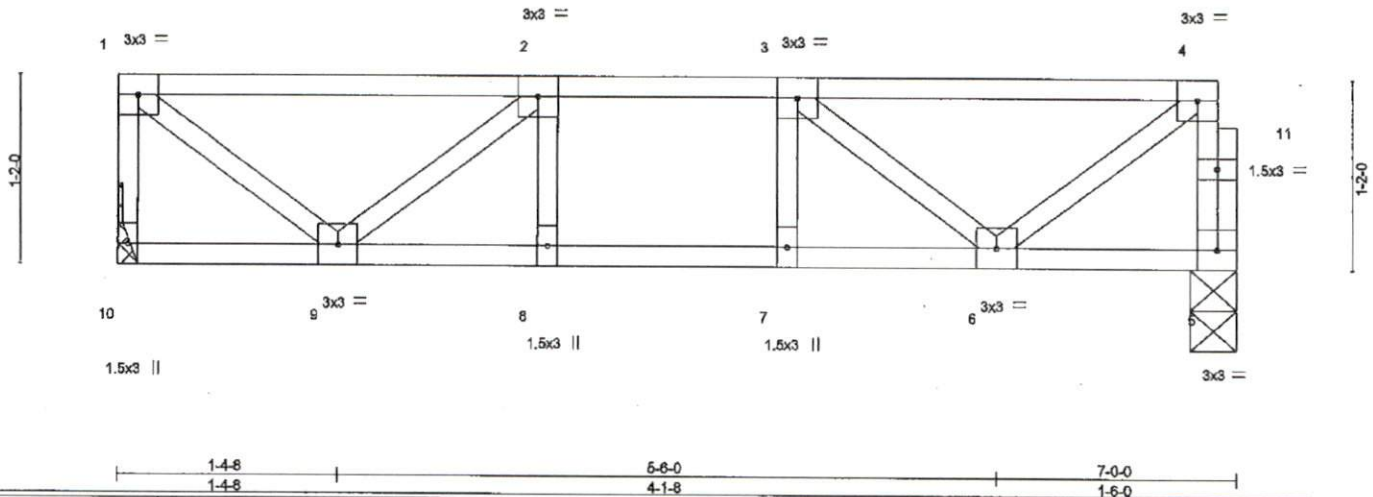
ENGINEERING BY
TRENCO
 A MITek Affiliate

818 Soundside Road
 Edenton, NC 27832

Job	Truss	Truss Type	Qty	Ply	Burke Floor	E12213222
LGL_HOMES	F11	Floor	4	1		

Probuild East, Albemarle, NC 28001

6.220 s May 24 2018 MITek Industries, Inc. Tue Sep 18 09:28:29 2018 Page 1
 ID:r7hMoJZbxPenI_bpb7z6FgypDqB-UOLw0VzxtFvXwumpKuGTRa3H0U00M43og_73DhycRRe



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.46	Vert(LL) -0.03 6-7 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.36	Vert(TL) -0.03 7 >999 240		
BCLL 0.0	Rep Stress Incr YES	WB 0.20	Horz(TL) 0.00 5 n/a n/a		
BCDL 5.0	Code IRC2009/TP12007	Matrix-SH		Weight: 36 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 10=375/Mechanical, 5=368/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-10=-368/0, 4-5=-363/0, 1-2=-324/0, 2-3=-632/0, 3-4=-338/0
 BOT CHORD 8-9=0/632, 7-8=0/632, 6-7=0/632
 WEBS 4-6=0/404, 1-9=0/414, 3-6=-376/0, 2-9=-393/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) 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.
 - 4) CAUTION, Do not erect truss backwards.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 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, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, D5B-89 and BCBI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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TRENCO
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 818 Soundside Road
 Edenton, NC 27932

Job LGL_HOMES	Truss F12E	Truss Type Floor Supported Gable	Qty 1	Ply 1	Burke Floor	E12213223
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Probuild East, Albemarle, NC 28001

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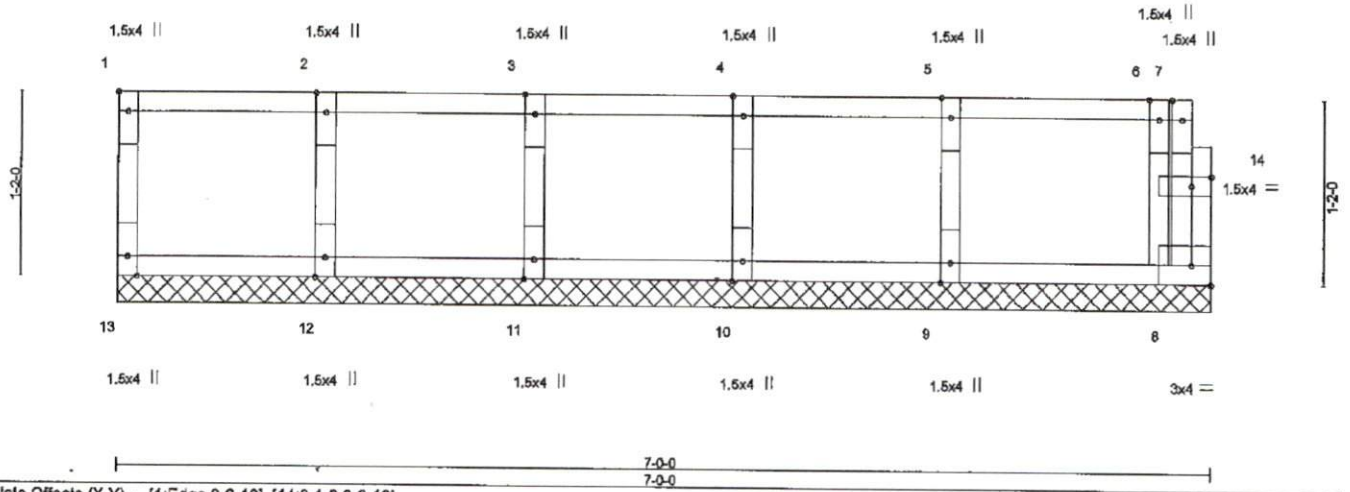


Plate Offsets (X,Y) - [1:Edge,0-0-12], [14:0-1-8,0-0-12]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.10	Vert(LL) n/a	- n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.03	Vert(TL) n/a	- n/a	999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(TL) 0.00	8 n/a	n/a		
BCDL 5.0	Code IRC2009/TPI2007	Matrix-R					
						Weight: 31 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

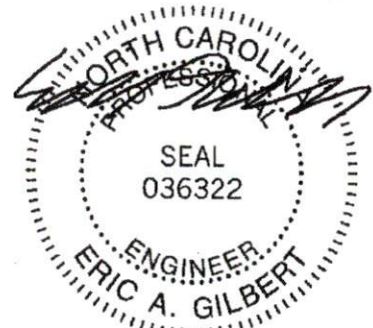
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 13=69/7-0-0, 8=78/7-0-0, 12=143/7-0-0, 11=149/7-0-0, 10=143/7-0-0, 9=161/7-0-0

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-13=-59/0, 8-14=0/19, 7-14=0/19, 1-2=-14/0, 2-3=-14/0, 3-4=-14/0, 4-5=-14/0, 5-6=-14/0, 6-7=-2/0
BOT CHORD 12-13=0/14, 11-12=0/14, 10-11=0/14, 9-10=0/14, 8-9=0/14
WEBS 2-12=-134/0, 3-11=-134/0, 4-10=-131/0, 5-9=-143/0, 6-8=-93/0

- NOTES-**
- 1) Gable requires continuous bottom chord bearing.
 - 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 3) Gable studs spaced at 1-4-0 oc.
 - 4) 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.
 - 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



September 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.
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ENGINEERING BY
TRENCO
A Mitek Affiliate
818 Soundside Road
Edenton, NC 27932

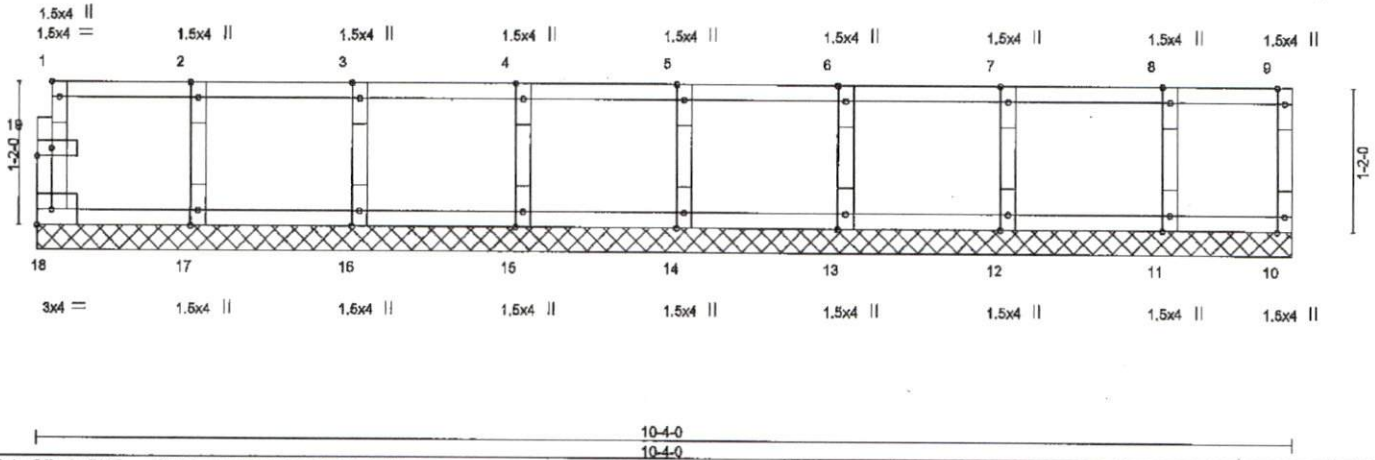
Job LGI_HOMES	Truss F13E	Truss Type Floor Supported Gable	Qty 1	Ply 1	Burke Floor	E12123224
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Probuild East, Albemarle, NC 28001

9.220 s May 24 2018 MITek Industries, Inc. Tue Sep 18 09:26:30 2018 Page 1
ID:r7hMouZbxPenI_bpb7z5FgypDqB-yavJDr_ZeZ1OX2L0ucni_ocYguo1cauyuekcl7ycRRd

0₁-8

Scale = 1:17.3



LOADING (psf)		SPACING-		CSL		DEFL.				PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.00	10	n/a	n/a		
BCDL	6.0	Code IRC2009/TPI2007		Matrix-R								
											Weight: 44 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10'-0" oc bracing.
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		

REACTIONS. All bearings 10-4-0.
(lb) - Max Grav. All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

- NOTES-**
- Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1'-4" oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10'-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.
 - CAUTION, Do not erect truss backwards.



September 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-88 and BCBI Building Component Safety Information available from Truss Plate Institute, 216 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MITEK Alliance
818 Soundside Road
Edenton, NC 27932

Job LGI_HOMES	Truss F14	Truss Type Floor	Qty 1	Ply 1	Burke Floor	E12213225
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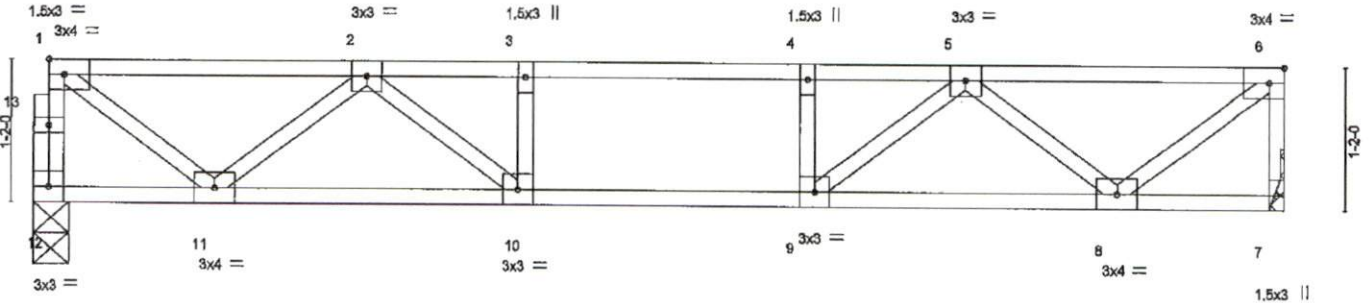
Probuild East, Albemarle, NC 28001

8.220 s May 24 2018 MITek Industries, Inc. Tue Sep 18 09:26:31 2018 Page 1
ID:r?hMoJZbxPenL_bpb7z5FgypDqB-QmThRB7BPpAF9CwCSJlxW78eaH12LxJ67UAIzycRRc

0-1-8



Scale = 1:17.4



1-6-0	8-11-8	10-4-0
1-6-0	7-6-8	1-4-6

Plate Offsets (X,Y)-- [6:0-1-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.43	Vert(LL)	-0.07 10-11	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.48	Vert(TL)	-0.09 10-11	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.34	Horz(TL)	0.02 7	n/a	n/a		
BCDL 5.0	Code IRC2009/TPI2007		Matrix-SH						
								Weight: 51 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 8-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 12=552/0-3-8, 7=558/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-12=-548/0, 6-7=-553/0, 1-2=-587/0, 2-3=-1314/0, 3-4=-1314/0, 4-5=-1314/0, 5-6=-561/0
 BOT CHORD 10-11=0/1087, 9-10=0/1314, 8-9=0/1071
 WEBS 6-8=0/716, 1-11=0/707, 5-8=-664/0, 2-11=-651/0, 5-9=0/463, 2-10=0/449

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) 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.
 - 4) CAUTION, Do not erect truss backwards.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MITEK AFFILIATE
 818 Soundside Road
 Edenton, NC 27832

Job	Truss	Truss Type	Qty	Ply	Burke Floor	E12213226
LGI_HOMES	F15	Floor	9	1		

Probuild East, Albemarle, NC 28001

8.220 s May 24 2018 MITek Industries, Inc. Tue Sep 18 09:26:32 2018 Page 1
 ID:r7hMoJZbxPenl_bpb7z5FgypDqB-uy13eX0qAA6nMU001paA3DhcvLZ4HoFMyDjq0YcRb

0-1-8



0-1-8
Scale = 1:35.1

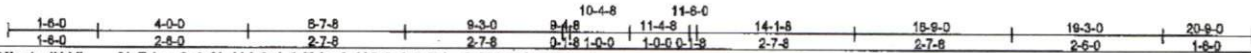
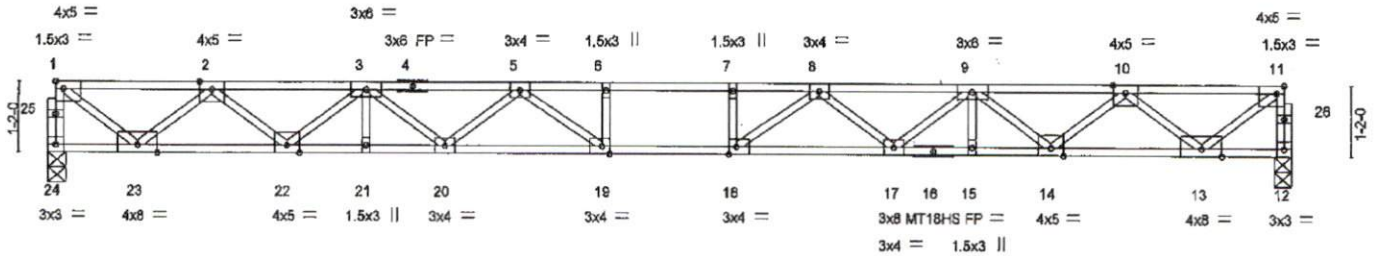


Plate Offsets (X,Y)- [1:Edge,0-1-8], [11:0-1-8,Edge], [18:0-1-8,Edge], [19:0-1-8,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI,	DEFL.	in (oc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.48	Vert(LL)	-0.43 18-19	>568	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.59	Vert(TL)	-0.68 18-19	>364	240	MT18HS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.77	Horz(TL)	0.10 12	n/a	n/a		
BCDL 5.0	Code IRC2009/TPI2007	Matrix-SH						
							Weight: 104 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP DSS(flat)
 BOT CHORD 2x4 SP DSS(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 24=1121/0-3-8, 12=1121/0-3-8

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

TOP CHORD 1-24=-1116/0, 11-12=-1116/0, 1-2=-1339/0, 2-3=-3369/0, 3-5=-4752/0, 5-6=-5491/0, 6-7=-5491/0, 7-8=-5491/0, 8-9=-4752/0, 9-10=-3369/0, 10-11=-1339/0
 BOT CHORD 22-23=0/2626, 21-22=0/4224, 20-21=0/4224, 19-20=0/5225, 18-19=0/5481, 17-18=0/5225, 15-17=0/4224, 14-15=0/4224, 13-14=0/2526
 WEBS 6-19=-313/8, 7-18=-313/8, 1-23=0/1624, 2-23=-1545/0, 2-22=0/1098, 3-22=-1091/0, 3-20=0/675, 5-20=-615/0, 5-19=-156/754, 11-13=0/1624, 10-13=-1545/0, 10-14=0/1098, 9-14=-1091/0, 9-17=0/675, 8-17=-615/0, 8-18=-156/754

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) 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.



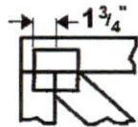
September 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 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, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria, DSB-49 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

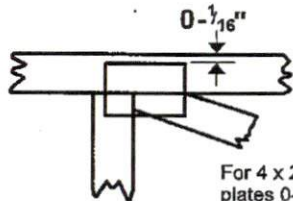
ENGINEERING BY
TRENCO
 A MITek Affiliate
 818 Soundside Road
 Edenton, NC 27932

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- $\frac{1}{16}$ " 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

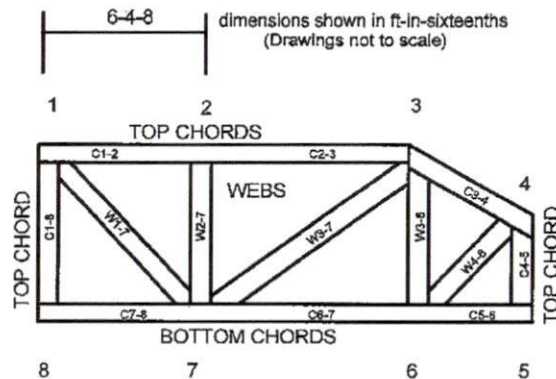


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.

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MITek Engineering Reference Sheet MII-7473 rev. 10/03/2015

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 Tor I bracing should be considered.
- Never exceed the design loading shown and never stack 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 tightly 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.

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: LGI_Homes
Burke Roof

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource (Albermarle,NC).

Pages or sheets covered by this seal: E11374086 thru E11374101

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

North Carolina COA: C-0844

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

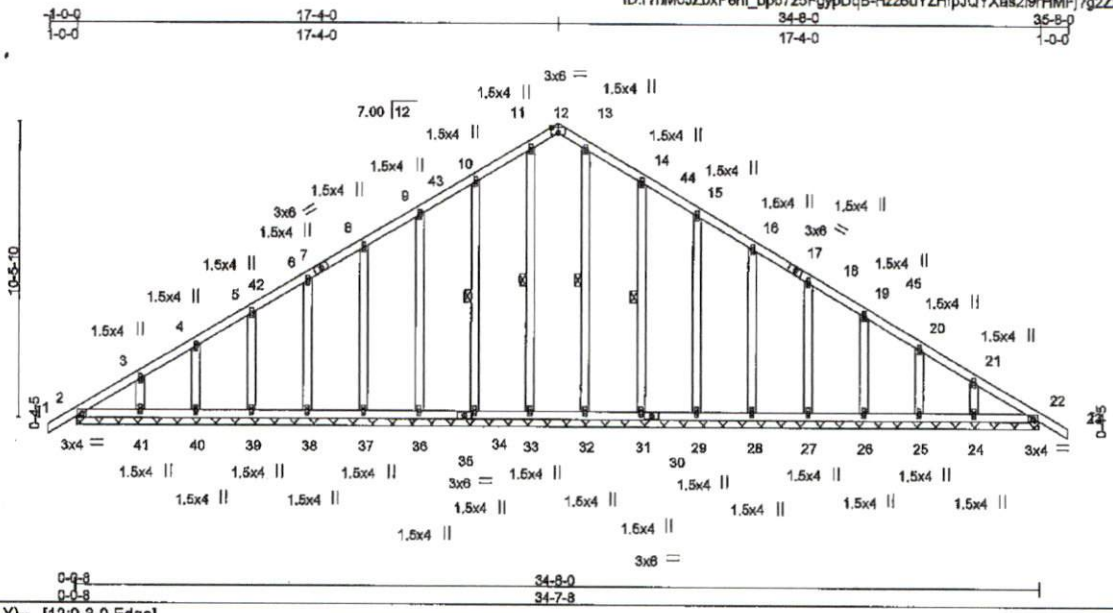


January 18, 2018

Strzyzewski, Marvin

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to Trenco. Any project specific information included is for Trenco's customer's file reference purpose only, and was not taken into account in the preparation of these designs. Trenco has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of the design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job LGI_HOMES	Truss A1E	Truss Type Common Supported Gable	Qty 1	Ply 1	Burke Roof	E11374066
Builders FirstSource, Albemarle, NC 28001		Job Reference (optional) 7.640 s Aug 18 2017 Mitek Industries, Inc. Thu Jan 18 09:50:37 2018 Page 1 ID:r7hMcJZbxPenI_bpb7z5FgypDqB-tzz6uYZHfpJQYXas29rHMF7g2Z26ZaZoOlnzuAL0				



Scale = 1:75.6

LOADING (psf)		SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof)	20.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	Lumber DOL	Vert(LL) -0.00 23 n/r 120		
TCDL	10.0	1.15	BC 0.04	Vert(TL) -0.00 23 n/r 120		
BCLL	0.0	Rep Stress Incr	WB 0.12	Horz(TL) 0.01 22 n/a n/a		
BCDL	10.0	Code IRC2009/TPI2007	(Matrix)			
				Weight: 240 lb	FT = 20%	

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

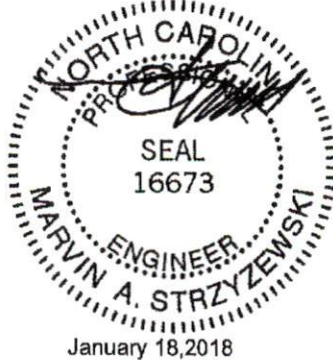
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.
WEBS 1 Row at midpt 11-33, 10-34, 13-32, 14-31

REACTIONS. (lb/size) 2=162/34-7-0, 33=149/34-7-0, 34=162/34-7-0, 36=160/34-7-0, 37=160/34-7-0, 38=160/34-7-0, 39=161/34-7-0, 40=154/34-7-0, 41=179/34-7-0, 32=149/34-7-0, 31=162/34-7-0, 29=160/34-7-0, 28=160/34-7-0, 27=160/34-7-0, 26=161/34-7-0, 25=154/34-7-0, 24=179/34-7-0, 22=162/34-7-0

Max Horiz 2=-294(LC 8)
Max Up/ft 2=-56(LC 8), 34=-45(LC 11), 36=-20(LC 10), 37=-24(LC 11), 38=-23(LC 10), 39=-46(LC 10), 40=-58(LC 10), 41=-51(LC 10), 31=-45(LC 11), 29=-20(LC 10), 28=-24(LC 10), 27=-23(LC 11), 26=-46(LC 11), 25=-58(LC 11), 24=-50(LC 11), 22=-8(LC 9)
Max Grav 2=182(LC 1), 33=180(LC 3), 34=199(LC 3), 36=180(LC 1), 37=180(LC 15), 38=160(LC 1), 39=161(LC 15), 40=154(LC 15), 41=179(LC 15), 32=180(LC 4), 31=199(LC 4), 29=160(LC 1), 28=160(LC 16), 27=160(LC 1), 26=161(LC 16), 25=154(LC 16), 24=179(LC 16), 22=162(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-3=267/157, 3-4=226/147, 4-5=192/144, 5-6=158/128, 6-7=152/139, 6-7=123/124, 7-8=117/135, 8-9=89/130, 9-43=55/119, 10-43=44/129, 10-11=60/190, 11-12=50/166, 12-13=50/166, 13-14=60/190, 14-44=20/129, 15-44=50/118, 15-16=50/82, 16-17=26/44, 17-18=50/33, 18-45=61/48, 19-45=67/37, 19-20=101/63, 20-21=135/66, 21-22=183/85, 22-23=0/28
BOT CHORD 2-41=42/203, 40-41=42/203, 39-40=42/203, 38-39=42/203, 37-38=42/203, 36-37=42/203, 35-36=42/203, 34-35=42/203, 33-34=42/203, 32-33=42/203, 31-32=42/203, 30-31=42/203, 29-30=42/203, 28-29=42/203, 27-28=42/203, 26-27=42/203, 25-26=42/203, 24-25=42/203, 22-24=42/203
WEBS 11-33=140/23, 10-34=159/99, 9-36=120/69, 8-37=120/73, 6-38=120/72, 5-39=121/73, 4-40=117/79, 3-41=132/82, 13-32=140/0, 14-31=159/99, 15-29=120/69, 16-28=120/73, 18-27=120/72, 19-26=121/73, 20-25=117/79, 21-24=132/82

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) -1-0-0 to 2-4-0, Exterior(2) 2-4-0 to 17-4-0, Corner(3) 17-4-0 to 20-9-10 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
 - 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.
 - TCLL: ASCE 7-05; Pr=20.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp B; Partially Exp.; Ct=1.1
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/02/2015 BEFORE USE.
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TRENCO ENGINEERING BY A Mitek Affiliate
818 Soundside Road
Edenton, NC 27932

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TRENCO
ENGINEERING BY
A MILLIK ATTORNEY

618 Gounside Road
Edenton, NC 27832

- NOTES-**
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.
 - 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at (s) 2, 34, 36, 37, 39, 39, 40, 41, 31, 29, 28, 27, 26, 25, 24, and 22. The connection is for uplift only and does not consider lateral forces.
 - 11) Non Standard bearing condition. Review required.
 - 12) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

Job	Truss Type	Qty	Job Reference (optional)
LG/HOMES	A1E	1	7640 Aug 16 2017 Millik Industries, Inc. Thu Jan 18 08:50:38 2018 Page 2 D:\7M\04\2bxP\enl_lpb07z5fgyDqB-4XUSZvQ7RH4H93cFg4paouHCompJSTJVDZVAL7
	Burke Roof	1	Job Reference (optional)
			E11374086

Builder's FirstSource, Albemarle, NC 29001

Job	Truss	Truss Type	Qty	Ply	Burke Roof	E11374087
LGI_HOMES	A2	Common	3	1		

Builders FirstSource, Albemarle, NC 28001

Job Reference (optional)
7.840 e Aug 16 2017 MITek Industries, Inc. Thu Jan 18 08:50:39 2018 Page 1
ID:r7hMcJZbxPenl_bpb7z5FgypDqB-EM5tJDaXBQZbnrKFA7BjMnLw6UVZWyK0Gts1fzuAL



Scale = 1:68.9

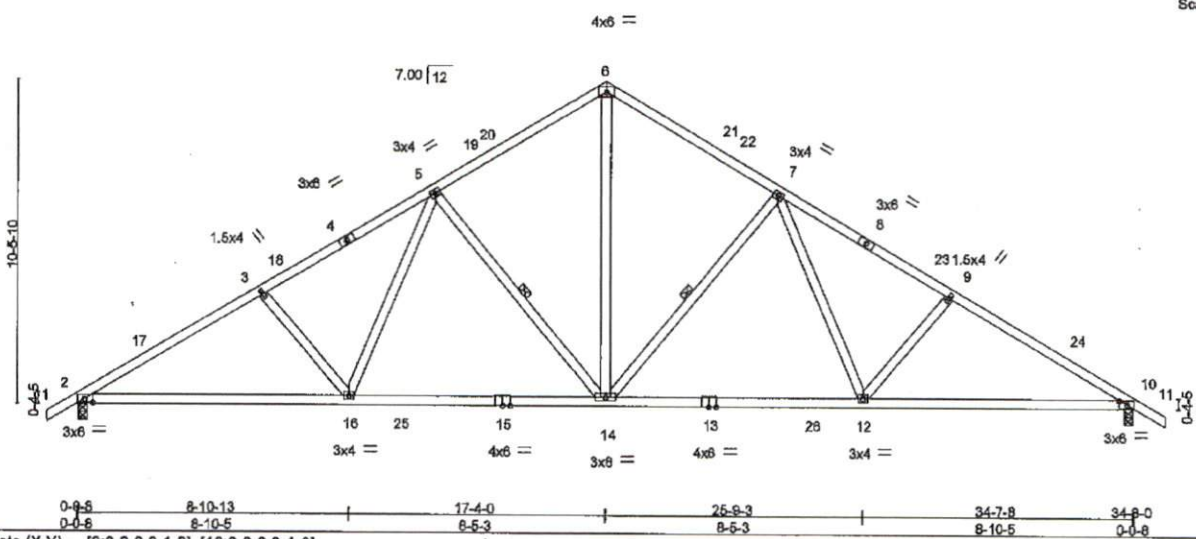


Plate Offsets (X,Y)-- [2-0-3-3,0-1-8] [10-0-3-3,0-1-8]

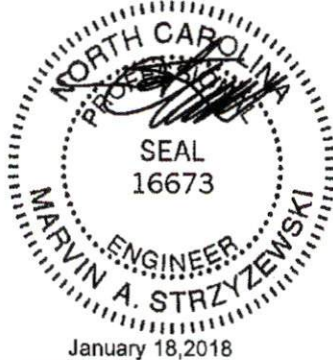
LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.66	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.97	Vert(LL) -0.26 14-16 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.53	Vert(TL) -0.49 14-16 >842 180		
BCLL 0.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.13 10 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007			Weight: 189 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-11-7 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-14, 5-14

REACTIONS. (lb/size) 2=1580/0-3-8, 10=1580/0-3-8
Max Horz 2=294(LC 9)
Max Uplift 2=160(LC 10), 10=160(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/29, 2-17=2580/202, 3-17=2500/235, 3-18=2356/218, 4-18=2271/231, 4-5=2200/249, 5-19=1661/228, 19-20=1596/238, 6-20=1570/259, 6-21=1570/259, 21-22=1596/238, 7-22=1661/228, 7-8=2200/249, 8-23=2271/231, 9-23=2356/218, 9-24=2500/235, 10-24=2580/202, 10-11=0/29
BOT CHORD 2-16=108/2139, 16-25=19/1758, 15-25=19/1758, 14-15=19/1758, 13-14=26/1758, 13-26=26/1758, 12-26=26/1758, 10-12=111/2139
WEBS 6-14=135/1269, 7-14=644/157, 7-12=30/536, 9-12=287/169, 5-14=644/157, 5-16=30/536, 3-16=287/168

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) -1-0-0 to 2-5-10, Interior(1) 2-5-10 to 17-4-0, Exterior(2) 17-4-0 to 20-9-10 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) TCLL: ASCE 7-05; P=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at J(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
 - 9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MR-7473 rev. 10/02/2015 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, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria, DSB-89 and BCBI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

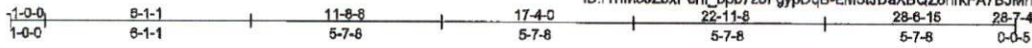
TRENCO
ENGINEERING BY
AMITEK Allstate
818 Soundale Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Burke Roof	E11374088
LGL_HOMES	A3	Common	6	1		

Builders FirstSource, Albemarle, NC 28001

Job Reference (optional)

7.840 s Aug 16 2017 Mitek Industries, Inc. Thu Jan 18 09:50:39 2018 Page 1
ID: r7hMoJZbxPenl_bp07z5FgypDqB-EM5UJDaXBQZ8nrkFA7BJmLlWUJYeWYj10Bta1tzuAL



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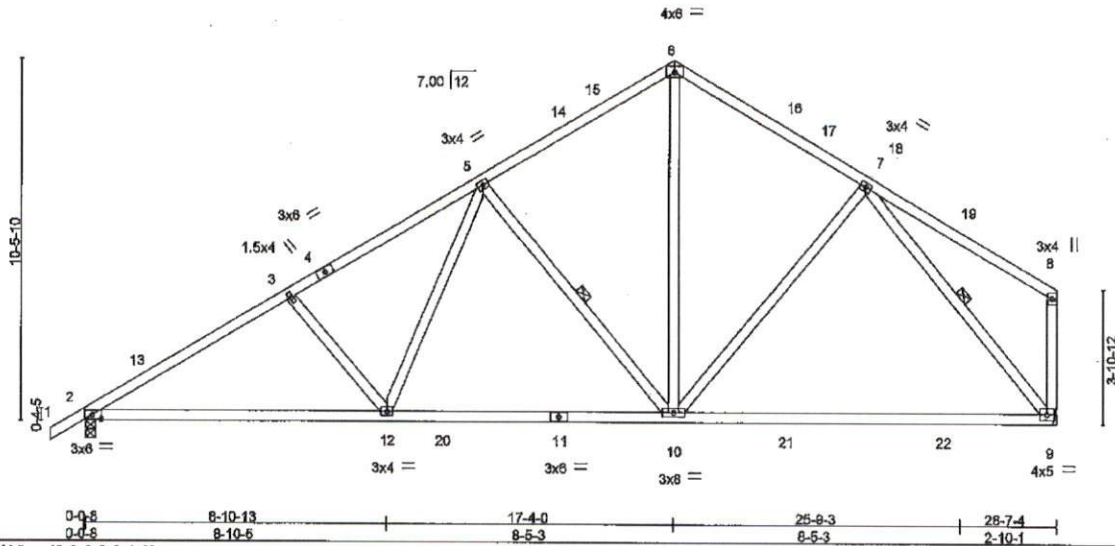


Plate Offsets (X,Y) - [2,0-3,3,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.89	In (loc) l/defl L/d	MT20	244/190
Snow (P/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.78	Vert(LL) -0.41 9-10 >828 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.53	Vert(TL) -0.80 9-10 >379 180		
BCLL 0.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.06 9 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007			Weight: 169 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 9-11: 2x4 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-10, 7-9

REACTIONS. (lb/size) 2=1317/0-3-8, 9=1340/Mechanical
Max Horz 2=290(LC 9)
Max Uplift 2=136(LC 10), 9=95(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/29, 2-13=-2046/150, 3-13=-1987/183, 3-4=-1838/166, 4-5=-1683/197, 5-14=-1169/180, 14-15=-1078/183,
6-15=-1077/198, 6-16=-1077/204, 16-17=-1091/185, 17-18=-1160/173, 7-18=-1171/170, 7-19=-68/75, 8-19=-155/57,
8-9=-186/91
BOT CHORD 2-12=-193/1700, 12-20=-104/1321, 11-20=-104/1321, 10-11=-104/1321, 10-21=-75/848, 21-22=-75/848, 8-22=-75/848
WEBS 7-10=-60/237, 5-10=-625/162, 6-10=-83/779, 7-9=-1245/129, 5-12=-31/505, 3-12=-297/155

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 17-4-0, Exterior(2) 17-4-0 to 20-4-0 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.80 plate grip DOL=1.60
- TCLL: ASCE 7-05; P=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 9.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at J(s) 2. This connection is for uplift only and does not consider lateral forces.
- "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



January 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A Mitek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Roof	E11374089
LGL_HOMES	A3A	Common	5	1	Burke Roof	
Builders FirstSource, Albemarle, NC 28001						Job Reference (optional)
1-0-0 6-1-1 11-8-8 17-4-0 22-11-8 28-6-15 29-7-4						7.640 s Aug 16 2017 Mitek Industries, Inc. Thu Jan 18 09:50:40 2018 Page 1
1-0-0 6-1-1 5-7-8 5-7-8 5-7-8 5-7-8 0-0-5						ID:r?hMoJZbxPenI_bpb7z5FgypDqB-YIFWZbexkh7P_JRkqYU7i6nusIFJWOFmcPZbzuAKz

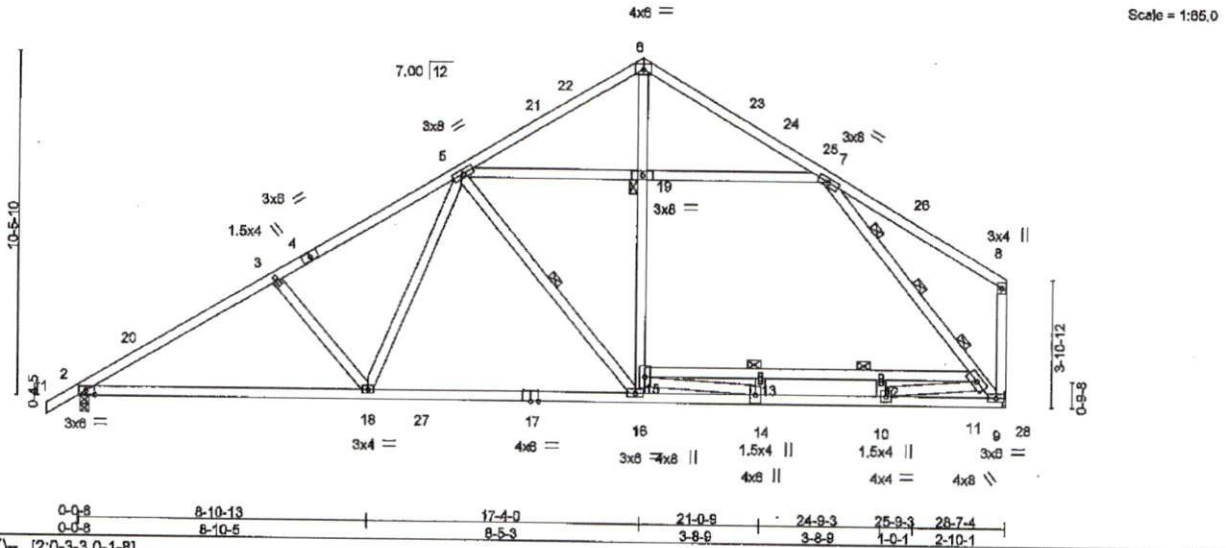


Plate Offsets (X,Y) - [2-0-3, 3-0-1-8]		0-0-8 8-10-13 17-4-0 21-0-8 24-9-3 25-9-3 28-7-4	
0-0-8 0-0-8 8-10-5 8-5-3 3-8-8 3-8-8 1-0-1 2-10-1			
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL (roof) 20.0	2-0-0	TC 0.60	in (loc) l/defl L/d
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.91	Vert(LL) -0.24 16-18 >999 240
TCDL 10.0	Lumber DOL 1.15	WB 0.94	Vert(TL) -0.46 16-18 >731 180
BCLL 0.0 *	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.10 9 n/a n/a
BCDL 10.0	Code IRC2009/TPI2007		
		Weight: 199 lb FT = 20%	

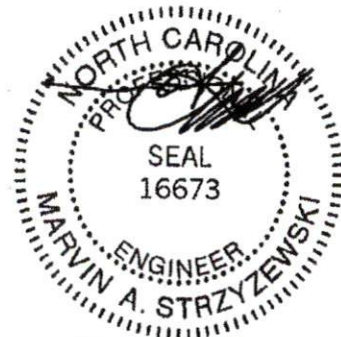
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-4 cc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 cc bracing, Except:
2-2-0 cc bracing: 2-18.
4-5-0 cc bracing: 11-15
WEBS 1 Row at midpt 5-16
3 Rows at 1/4 pts 7-9
JOINTS 1 Brace at Jt(s): 19

REACTIONS. (lb/size) 2=1476/0-3-8, 9=1785/Mechanical
Max Horz 2=290(LC 9)
Max Uplift 2=111(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/29, 2-20=2381/99, 3-20=2301/130, 3-4=2158/113, 4-5=2002/144, 5-21=1915/0, 21-22=1822/0, 6-22=1821/0, 6-23=1828/0, 23-24=1843/0, 24-25=1911/0, 7-25=1927/0, 7-26=7/83, 8-26=110/65, 8-9=154/94
BOT CHORD 2-18=149/1968, 18-27=64/1587, 17-27=64/1587, 16-17=64/1587, 14-18=66/777, 10-14=0/2529, 10-28=0/1612, 9-28=0/1612, 13-15=1620/0, 12-13=1620/0, 11-12=1520/0
WEBS 5-18=1057/144, 15-16=22/1153, 15-19=0/1617, 6-19=0/1607, 7-11=1613/76, 9-11=2222/0, 5-18=19/538, 3-18=288/157, 5-19=86/780, 7-19=71/751, 13-14=236/0, 14-15=0/1795, 10-12=132/0, 10-11=0/897

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 17-4-0, Exterior(2) 17-4-0 to 20-4-0 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
 - TCLL: ASCE 7-05; Pr=20.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp B; Partially Exp.; Ct=1.1
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide metal plate or equivalent at bearing(s) 9 to support reaction shown.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at Jt(s) 2. This connection is for uplift only and does not consider lateral forces.
 - "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



January 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7479 rev. 10/23/2016 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, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIPFH Quality Criteria, DSB-88 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

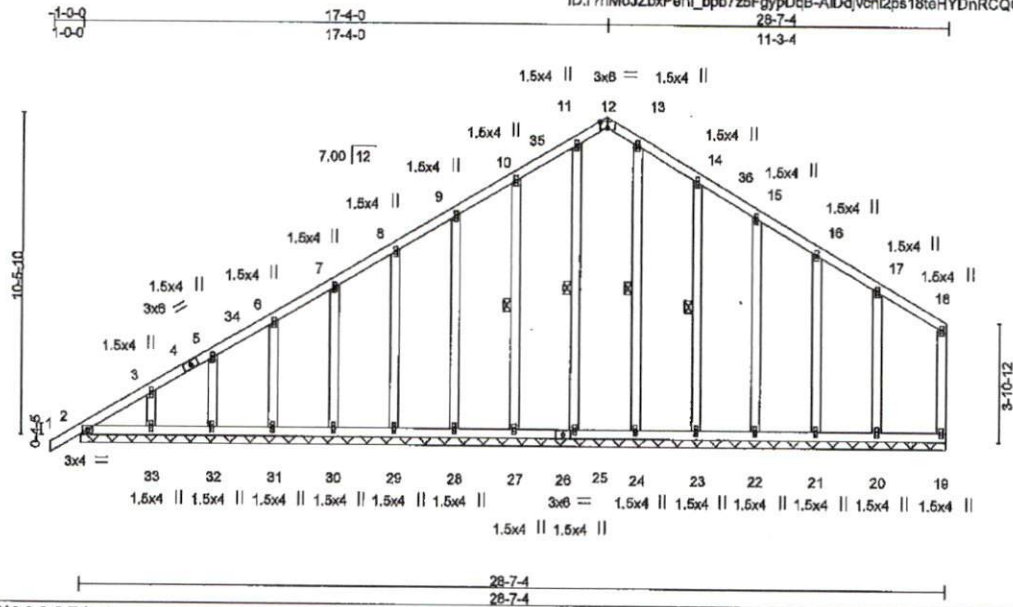
ENGINEERING BY
TRENCO
A Mitek Affiliate
818 Soundale Road
Edenton, NC 27932

Job LGI_HOMES	Truss A4E	Truss Type GABLE	Qty 1	Ply 1	Burke Roof	E11374090
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Builders FirstSource, Albemarle, NC 28001

7.840 s Aug 18 2017 MITek Industries, Inc. Thu Jan 18 09:50:41 2018 Page 1

ID:r7hMoJZbxPenl_bpb7z5FgypDcB-AIDd/vcnl2ps18teHYDnRCQOalQb_zXAUQMz5YzuAKY



Scale = 1/64.8

Plate Offsets (X,Y) - [12-C-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.15	In (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) -0.00 1 n/r 120		
TCDL 10.0	Lumber DOL 1.15	WB 0.12	Vert(TL) 0.00 1 n/r 120		
BCLL 0.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 19 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007			Weight: 214 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 11-25, 10-27, 13-24, 14-23

REACTIONS. (lb/size)

19=76/28-7-4, 2=153/28-7-4, 25=159/28-7-4, 27=160/28-7-4, 28=160/28-7-4, 29=160/28-7-4, 30=160/28-7-4, 31=161/28-7-4, 32=154/28-7-4, 33=179/28-7-4, 24=159/28-7-4, 23=159/28-7-4, 22=161/28-7-4, 21=156/28-7-4, 20=179/28-7-4
 Max Horz 2=290(LC 9)
 Max Uplift 19=14(LC 11), 2=95(LC 8), 25=26(LC 9), 27=53(LC 11), 28=20(LC 9), 29=24(LC 10), 30=23(LC 11), 31=33(LC 10), 32=58(LC 10), 33=50(LC 10), 23=51(LC 11), 22=35(LC 11), 21=52(LC 11), 20=72(LC 11)
 Max Grav 19=76(LC 1), 2=153(LC 1), 25=171(LC 3), 27=162(LC 15), 28=160(LC 1), 29=160(LC 15), 30=160(LC 1), 31=161(LC 15), 32=154(LC 1), 33=179(LC 15), 24=189(LC 4), 23=197(LC 4), 22=161(LC 1), 21=156(LC 1), 20=180(LC 16)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/28, 2-3=-310/232, 3-4=-269/211, 4-5=-259/222, 5-34=-235/212, 6-34=-225/219, 6-7=-201/214, 7-8=-167/210, 8-9=-132/206, 9-10=-98/198, 10-35=-64/227, 11-35=-53/237, 11-12=-33/199, 12-13=-38/199, 13-14=-44/237, 14-36=-9/176, 15-36=-34/165, 15-16=-33/135, 16-17=-35/84, 17-18=-31/33, 18-19=-57/29
 BOT CHORD 2-33=-1/4, 32-33=-1/4, 31-32=-1/4, 30-31=-1/4, 29-30=-1/4, 28-29=-1/4, 27-28=-1/4, 26-27=-1/4, 25-26=-1/4, 24-25=-1/4, 23-24=-1/4, 22-23=-1/4, 21-22=-1/4, 20-21=-1/4, 19-20=-1/4
 WEBS 11-25=-138/50, 10-27=-122/105, 9-28=-120/88, 8-29=-120/73, 7-30=-120/72, 6-31=-121/73, 5-32=-117/79, 3-33=-132/81, 13-24=-149/0, 14-23=-157/105, 15-22=-121/88, 16-21=-117/77, 17-20=-135/94

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and zone and C-C Corner(3) 1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 17-4-0, Corner(3) 17-4-0 to 20-4-0 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
- 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.
- TCLL: ASCE 7-05; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 cc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will conflict between the bottom chord and any other members.



January 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-T473 rev. 10/03/2018 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, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Erecting indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Burke Roof
LGI_HOMES	A4E	GABLE	1	1	E11374090

Builders FirstSource, Albemarle, NC 28001

Job Reference (optional)
 7.640 s Aug 18 2017 MITek Industries, Inc. Thu Jan 18 09:50:41 2018 Page 2
 ID:r7hMoJZbxPenL_bpb7z5FgypDqB-AIDjvci2ps18teHYDnRCQOaiQb_zXAUQMz5YzuAKy

NOTES-

- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at J(s) 19, 2, 25, 27, 28, 29, 30, 31, 32, 33, 23, 22, 21, and 20. This connection is for uplift only and does not consider lateral forces.
- 12) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MR-7473 rev. 10/03/2016 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, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MITek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job LGL HOMES	Truss B1E	Truss Type Common Supported Gable	Qty 1	Ply 1	Burke Roof	E11374091
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Bullers FirstSource, Albemarle, NC 28001

Job Reference (optional)
7.840 s Aug 18 2017 MITek Industries, Inc. Thu Jan 18 09:50:41 2018 Page 1
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3x4 =

Scale = 1:28.0

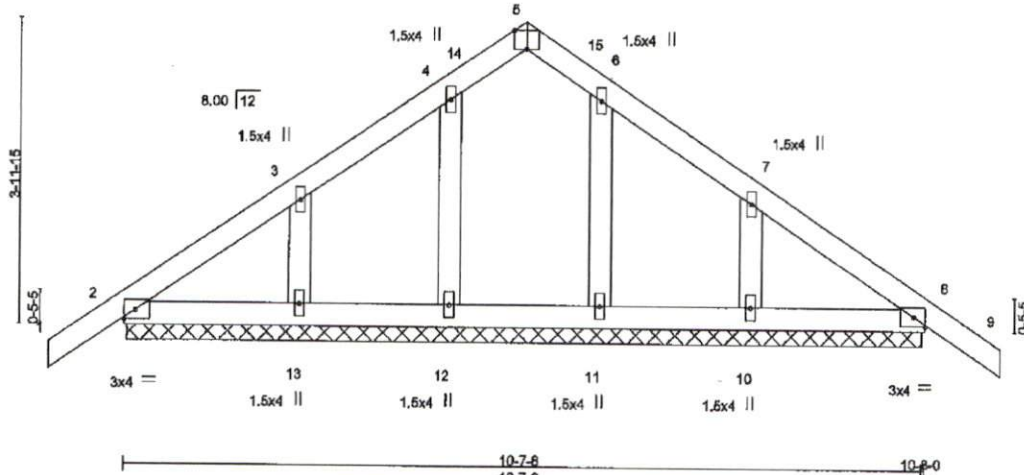


Plate Offsets (X,Y) - [6-0-2-0,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	In (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.07	Veri(LL) -0.00	9	n/r	120	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Lumber DOL 1.15	BC 0.04	Veri(TL) -0.00	9	n/r	120		
TCDL 10.0	Rep Stress Incr YES	WB 0.03	Horz(TL) 0.00	8	n/a	n/a		
BCLL 0.0	Code IRC2009/TPI2007	(Matrix)						
BCDL 10.0							Weight: 52 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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.

REACTIONS. (lb/size) 2=167/10-7-0, 8=167/10-7-0, 12=139/10-7-0, 13=181/10-7-0, 11=139/10-7-0, 10=181/10-7-0
Max Horz 2=108(LC 9)
Max Uplift 2=10(LC 10), 8=12(LC 11), 12=37(LC 10), 13=72(LC 10), 11=33(LC 11), 10=73(LC 11)
Max Grav 2=167(LC 1), 8=167(LC 1), 12=139(LC 1), 13=182(LC 15), 11=139(LC 1), 10=182(LC 16)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/29, 2-3=-102/35, 3-4=-62/23, 4-14=-52/24, 5-14=-41/28, 5-15=-41/29, 6-15=-52/25, 6-7=-62/14, 7-8=-103/27, 8-9=0/29
BOT CHORD 2-13=-7/139, 12-13=-7/139, 11-12=-7/139, 10-11=-7/139, 8-10=-7/139
WEBS 4-12=-101/59, 3-13=-132/115, 6-11=-101/58, 7-10=-132/115

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 5-4-0, Corner(3) 5-4-0 to 8-4-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.80 plate grip DOL=1.80
 - 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.
 - TCLL: ASCE 7-05; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 8, 12, 13, 11, and 10. This connection is for uplift only and does not consider lateral forces.
 - Non Standard bearing condition. Review required.
 - "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



January 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 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, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-88 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

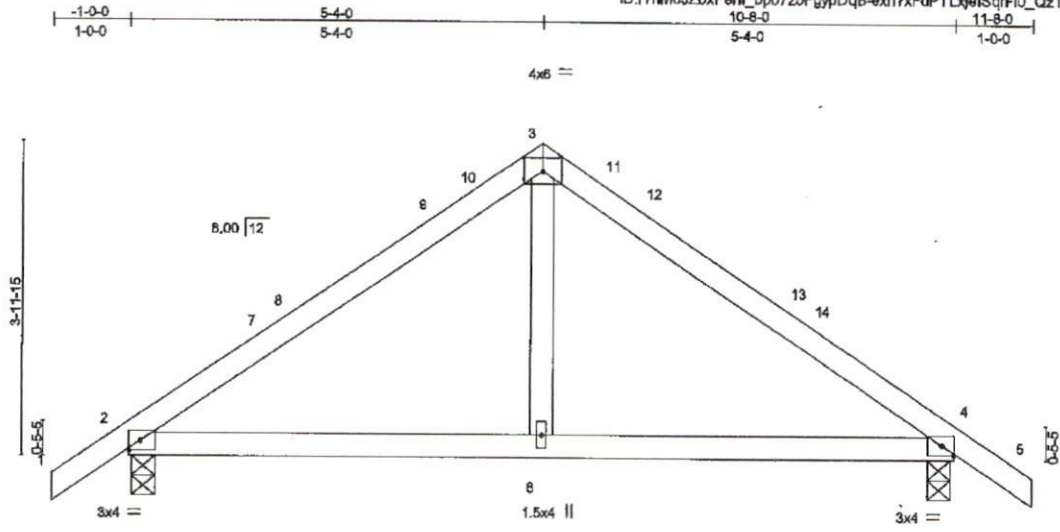


815 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Burke Roof	E11374082
LGI_HOMES	B2	Common	1	1		

Builders FirstSource, Albemarle, NC 28001

Job Reference (optional)
 7.640 s Aug 16 2017 MITek Industries, Inc. Thu Jan 18 09:00:42 2018 Page 1
 ID:r7hMoJZbxPenl_bp67z5FgypDqB-exn7xFdPTLxjeISqrFIO_QzTRhialP9J45VWd_zuAKx



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.53	In (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.31	Vert(LL) -0.02 2-6 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.10	Vert(TL) -0.05 2-6 >999 180		
BCLL 0.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 4 n/a n/a		
BDDL 10.0	Code IRC2009/TPI2007			Weight: 44 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

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.

REACTIONS. (lb/size) 2=484/0-3-8, 4=484/0-3-8
 Max Horz 2=108(LC 9)
 Max Uplift 2=106(LC 10), 4=106(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/30, 2-7=-461/33, 7-8=-385/35, 8-9=-366/39, 9-10=-322/48, 3-10=-304/52, 3-11=-304/52, 11-12=-322/48,
 12-13=-366/39, 13-14=-385/35, 4-14=-461/33, 4-5=0/30
 BOT CHORD 2-6=0/299, 4-6=0/299
 WEBS 3-6=0/257

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=26ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-4-0, Exterior(2) 5-4-0 to 8-4-0 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) TCCL: ASCE 7-05; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at Jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
 - 9) "Semi-rigid pitchbreaks with fixed heels" Member end fixed model was used in the analysis and design of this truss.



January 18, 2018

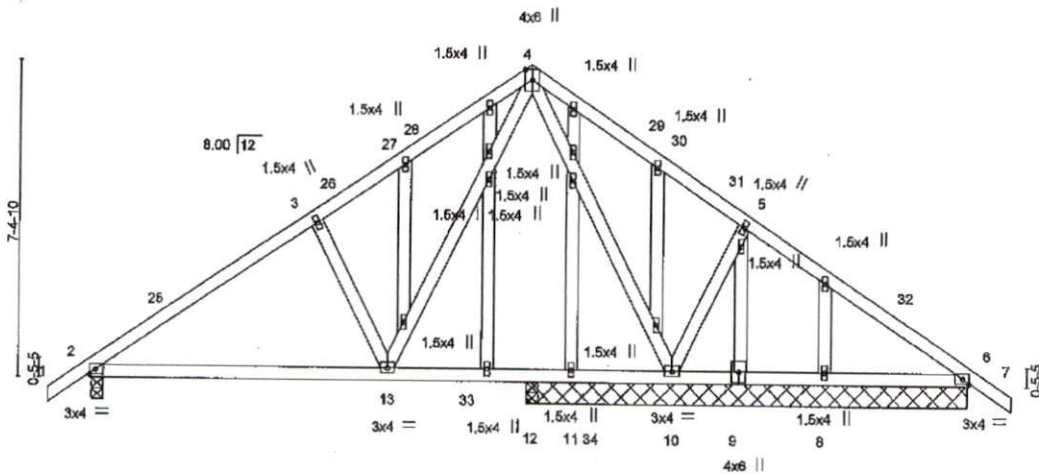
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MITEK AFFILIATE
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Roof	
LGL_HOMES	BSE	Common Structural Gable	1	1	Burke Roof	E11374093
Builders FirstSource, Albemarle, NC 28001		Job Reference (optional) 7.640 * Aug 18 2017 Mitek Industries, Inc. Thu Jan 18 09:50:42 2018 Page 1				



Scale = 1:48.8



LOADING (psf)	SPACING-	CSL	DEFL.	In (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.36	Vert(LL)	-0.06	2-13	>999	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.40	Vert(TL)	-0.16	2-13	>757		
TCDL 10.0	Lumber DOL 1.15	WB 0.66	Horz(TL)	0.01	6	n/a		
BCLL 0.0 *	Rep Stress Incr YES	(Matrix)						
BCDL 10.0	Code IRC2009/TPI2007							
							Weight: 144 lb	FT = 20%

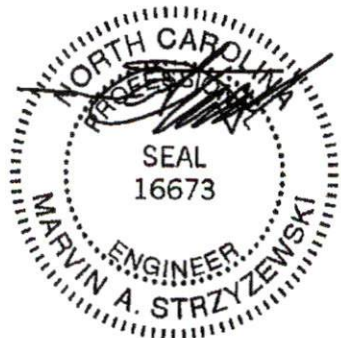
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 2=578/0-3-8, 10=819/10-5-8, 11=32/10-5-8, 8=109/10-5-8, 6=230/10-5-8, 12=132/0-3-8
 Max Horz 2=205(LC 8)
 Max Uplift 2=109(LC 10), 10=115(LC 10), 6=88(LC 11)
 Max Grav 2=578(LC 1), 10=819(LC 1), 11=61(LC 5), 8=167(LC 5), 6=249(LC 16), 12=133(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/30, 2-25=-631/61, 3-25=-556/89, 3-26=-496/115, 26-27=-425/126, 27-28=-408/129, 4-28=-399/146, 4-29=0/187, 29-30=0/104, 30-31=0/87, 5-31=18/71, 5-32=-1/65, 6-32=-155/28, 6-7=0/29
 BOT CHORD 2-13=-108/454, 13-33=-37/172, 12-33=-37/172, 11-12=-37/172, 11-34=-37/172, 10-34=-37/172, 9-10=-27/79, 8-9=-27/79, 6-8=-27/79
 WEBS 4-10=-555/48, 5-10=-295/175, 4-13=-91/441, 3-13=-287/168

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft. Cat. II; Exp B; enclosed; MWFRS (low-rise) gable and zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-5-0, Exterior(2) 10-5-0 to 13-5-0 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
 - 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.
 - TCLL: ASCE 7-05; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at Jt(s) 2, 10, and 6. This connection is for uplift only and does not consider lateral forces.
 - "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



January 18, 2018

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ENGINEERING BY
TRENCO
 A Mitek Affiliate
 816 Soundside Road
 Edenton, NC 27832

Job	Truss	Truss Type	Qty	Ply	Burke Roof	E11374094					
LGL_HOMES	B4	Scissor	3	1							
Builders FirstSource, Albemarle, NC 28001						Job Reference (optional)					
						7.840 e Aug 18 2017 Mitek Industries, Inc. Thu Jan 18 09:50:43 2018 Page 1					
						ID:r7hMouZbxPenL_bpb7z5FgypDqB-67KN8bd2E13aGS10PzGFWdVZp5sKSinSxjr49RzuAKw					
-1-0-0 1-0-0		5-4-6 5-4-6		10-5-0 5-0-10		15-5-10 5-0-10		20-10-0 5-4-6		21-10-0 1-0-0	

Scale = 1:45.8

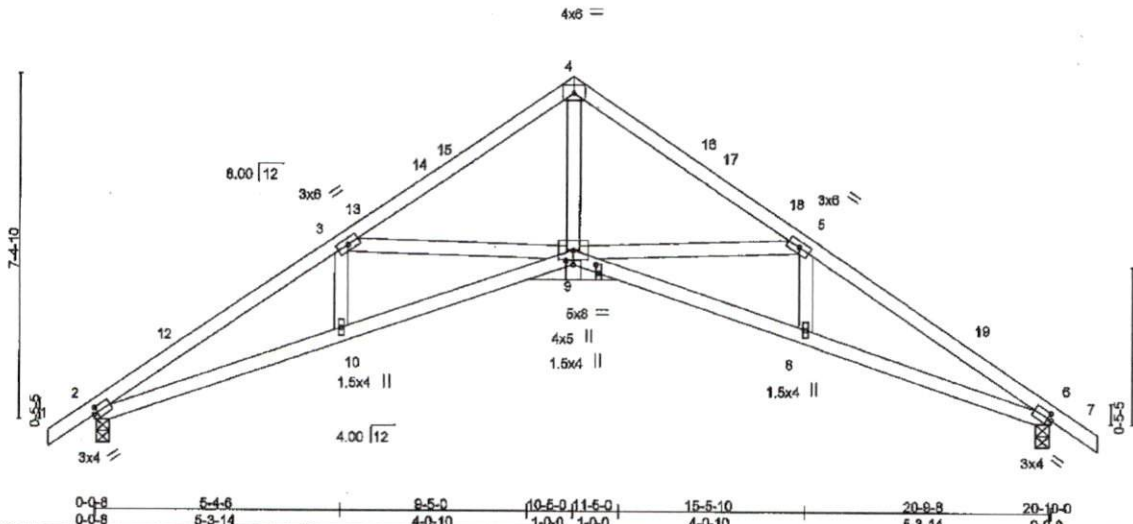


Plate Offsets (X,Y)	[2-0-1-0-0-1-8], [6-0-1-0-0-1-8], [9-0-1-0-0-2-0], [11-0-2-4-0-0-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.87	In (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.98	Vert(LL) -0.11 9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.52	Vert(TL) -0.28 8-9 >869 190		
BCLL 0.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.26 6 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007				
				Weight: 102 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-1 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=890/0-3-8, 6=890/0-3-8
 Max Horz 2=206(LC 9)
 Max Uplift 2=128(LC 10), 6=128(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/27, 2-12=-2118/118, 3-12=-2032/141, 3-13=-1479/55, 13-14=-1411/66, 14-15=-1394/69, 4-15=-1389/86,
 4-16=-1389/76, 16-17=-1394/60, 17-18=-1411/56, 5-18=-1479/46, 5-19=-2032/138, 6-19=-2118/114, 6-7=0/27
 BOT CHORD 2-10=-82/1759, 9-10=-81/1754, 8-9=-44/1754, 8-8=-45/1759
 WEBS 3-10=0/225, 3-9=-528/195, 4-9=0/1262, 5-9=-528/201, 5-8=0/225

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-5-0, Exterior(2) 10-5-0 to 13-5-0 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) TCLL: ASCE 7-05; Pr=20.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp B; Partially Exp.; Ct=1.1
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at Joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at Jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
- 10) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



January 18, 2018

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 Design valid for use only with MITEK connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

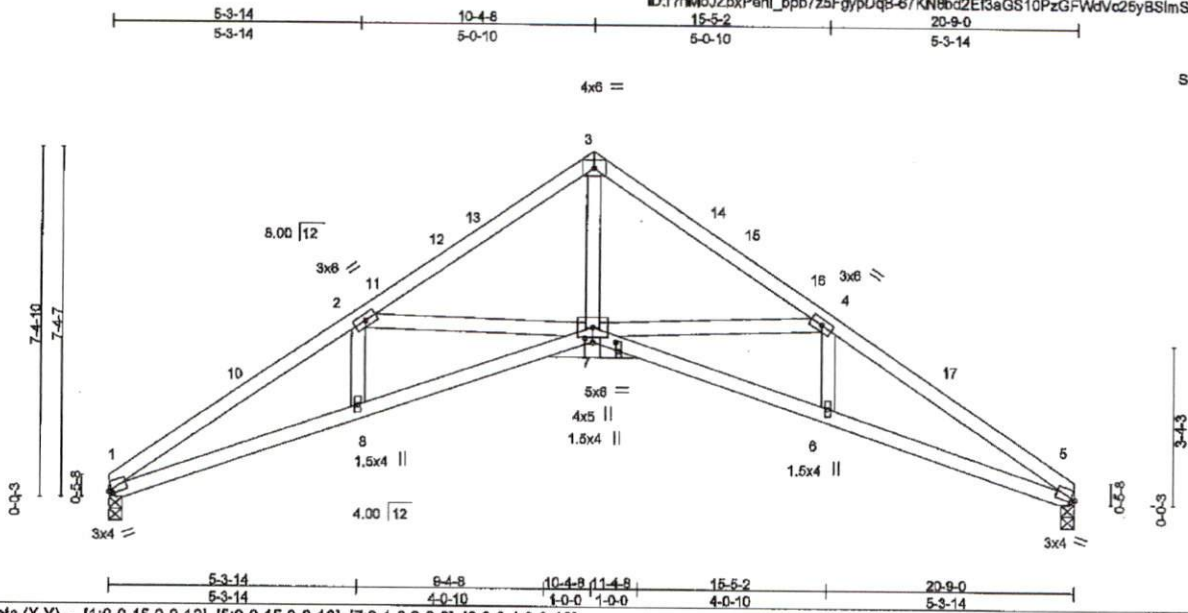


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Burke Roof	E11374085
LGL_HOMES	B6	Sessor	3	1		

Builders FirstSource, Albemarle, NC 29001

Job Reference (optional)
 7.840 8 Aug 18 2017 MITek Industries, Inc. Thu Jan 18 09:50:43 2018 Page 1
 ID:r7hMoJZbxPant_bpb7z5FgypDqB-67KN6bd2ET3aGS10PzGFWdVc25yBSImSxjr49RzuAKw



Scale = 1:45.2

Plate Offsets (X,Y) - [1:0-0-15,0-0-12], [5:0-0-15,0-0-12], [7:0-1-0-0-2-0], [9:0-2-4,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.66	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	Lumber DOL 0.61	Vert(LL) -0.11 7 >999 240		
TCDL 10.0	Rep Stress Incr YES	WB 0.52	Vert(TL) -0.28 6-7 >876 180		
BCLL 0.0	Code IRC2009/TPI2007	(Matrix)	Horz(TL) 0.26 5 n/a n/a		
BCDL 10.0				Weight: 96 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-6-15 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 1=818/0-3-8, 5=818/0-3-8
 Max Horz 1=204(LC 8)
 Max Uplift 1=79(LC 10), 5=79(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-10=-2124/156, 2-10=2019/176, 2-11=-1481/80, 11-12=-1412/81, 12-13=-1389/96, 3-13=-1387/110, 3-14=-1387/109,
 14-15=-1389/94, 15-16=-1412/80, 4-16=-1481/79, 4-17=-2019/175, 5-17=-2124/155
 BOT CHORD 1-8=-122/1767, 7-8=-119/1761, 6-7=-80/1761, 5-6=-81/1767
 WEBS 2-8=0/227, 2-7=-535/206, 3-7=-8/1264, 4-7=-535/211, 4-6=0/227

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-2-4 to 3-2-4, Interior(1) 3-2-4 to 10-5-0, Exterior(2) 10-5-0 to 13-5-0 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) TCCL: ASCE 7-05; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at Jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
 - 9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



January 18, 2018

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818 Soundside Road
 Edenton, NC 27932

Job LGI_HOMES	Truss B5A	Truss Type Roof Special	Qty 1	Ply 1	Burke Roof	E11374096
Builders FirstSource, Albemarle, NC 28001		Job Reference (optional) 7.640 & Aug 16 2017 Mitek Industries, Inc. Thu Jan 18 09:50:44 2018 Page 1				
5-2-4 5-2-4		10-1-0 4-10-12		15-1-10 5-0-10		20-5-8 5-3-14

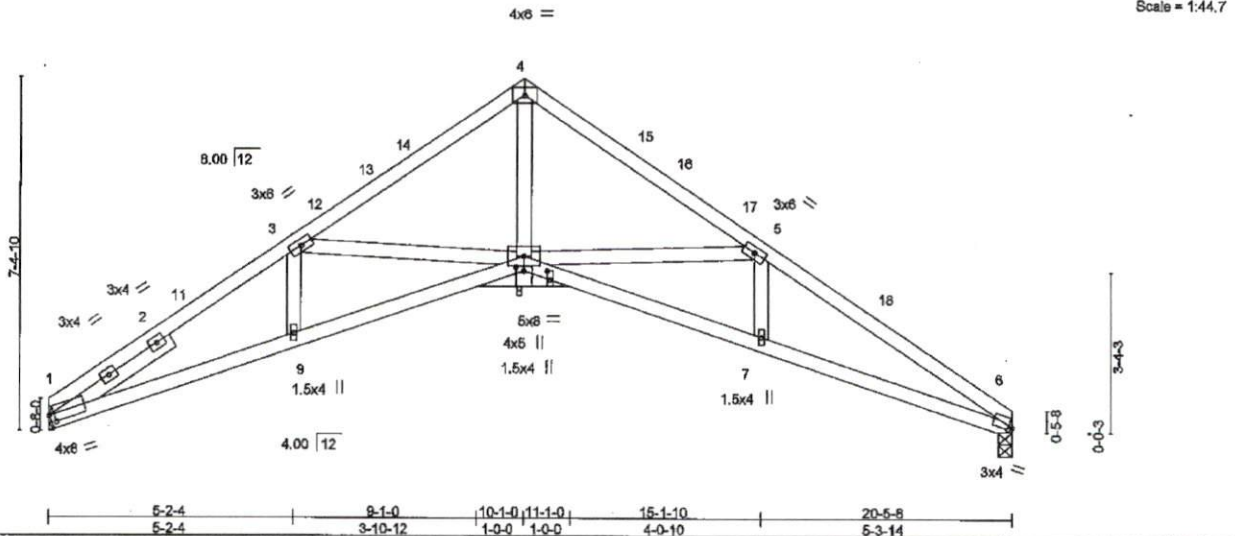


Plate Offsets (X,Y)-- [1:0-1-5,0-2-0], [6:0-0-15,0-0-12], [8:0-1-0,0-2-0], [10:0-2-4,0-0-12]								
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	In (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.65	Vert(LL) -0.10	8	>999	240	MT20	244/190
Snow (PI/Pg) 15.4/20.0	Lumber DOL 1.15	BC 0.80	Vert(TL) -0.26	8-9	>929	180		
TCDL 10.0	Rep Stress Incr YES	WB 0.50	Horz(TL) 0.24	6	n/a	n/a		
BCLL 0.0	Code IRC2009/TPI2007	(Matrix)					Weight: 101 lb	FT = 20%
BCDL 10.0								

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 3-0-6

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

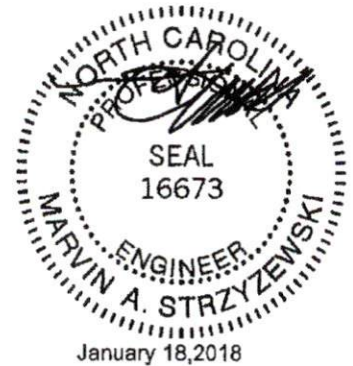
REACTIONS. (lb/size) 1=809/Mechanical, 6=609/0-3-8
 Max Horz 1=204(LC 8)
 Max Uplift 1=79(LC 10), 6=79(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1966/143, 2-11=-1879/147, 3-11=-1857/165, 3-12=-1440/79, 12-13=-1377/89, 13-14=-1362/84, 4-14=-1351/109,
 4-15=-1356/107, 15-16=-1362/92, 16-17=-1384/79, 5-17=-1452/77, 5-18=-1987/173, 6-18=-2093/153
 BOT CHORD 1-9=-109/1609, 8-9=-106/1617, 7-8=-79/1734, 6-7=-80/1740
 WEBS 3-9=0/192, 3-8=-434/193, 4-8=-712/17, 5-8=-533/211, 5-7=0/228

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-1-2 to 3-1-2, Interior(1) 3-1-2 to 10-1-0, Exterior(2) 10-1-0 to 13-1-0 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
- TCLL: ASCE 7-05; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 1.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
- "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/02/2015 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, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-88 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

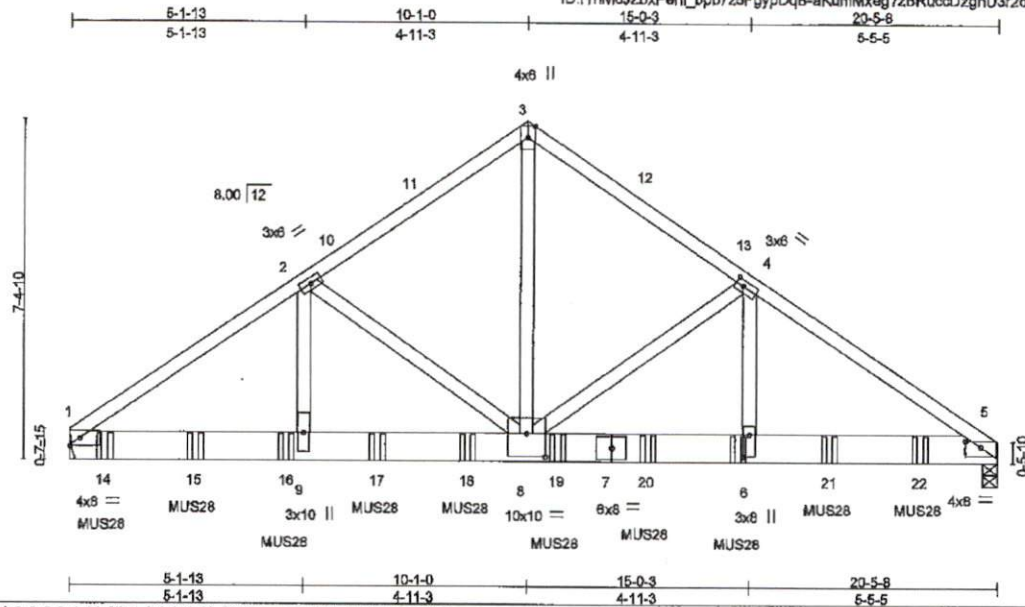
ENGINEERING BY
TRENCO
 A Mitek Affiliate
 818 Soundside Road
 Edenton, NC 27832

Job	Truss	Truss Type	Qty	Ply	Roof	E11374097
LGI_HOMES	B&G	COMMON GIRDER	1	3	Burke Roof	

Bulliera FirstSource, Albemarle, NC 28001

Job Reference (optional)

7.840 s Aug 16 2017 MITek Industries, Inc. Thu Jan 18 09:50:44 2018 Page 1
ID:r?hMoJzbxPenl_bpb7z5FgypDqB-aKumMxag7zBRuocDzgnU3r2oZVL2BANcANaditzuAKV



Scale = 1:46.5

Plate Offsets (X,Y) - [4.0-2.0,0.0-1.8], [5.0-4.0,0.0-1.8], [6.0-5.12,0.0-1.8], [8.0-5.0,0.0-6.0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.61	Vert(LL)	-0.11	6-8	>999	MT20	244/180
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.44	Vert(TL)	-0.22	6-8	>999		
TCDL 10.0	Rep Stress Incr	NO	WB 0.69	Horz(TL)	0.04	5	n/a		
BCLL 0.0	Code IRC2009/TPI2007		(Matrix)						
BCDL 10.0								Weight: 409 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x8 SP DSS
 WEBS 2x4 SP No.3 *Except*
 3-8; 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-8-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=8262/Mechanical, 5=8763/0-4-0 (req. 0-4-9)
 Max Horz 1=198(LC 6)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-11009/0, 2-10=-7966/0, 10-11=-7905/0, 3-11=-7896/0, 3-12=-7892/0, 12-13=-7902/0, 4-13=-7964/0, 4-5=-12288/0
 BOT CHORD 1-14=0/8924, 14-15=0/8924, 15-16=0/8924, 9-16=0/8924, 9-17=0/8924, 17-18=0/8924, 8-18=0/8924, 8-19=0/10085,
 7-19=0/10085, 7-20=0/10085, 6-20=0/10085, 6-21=0/10085, 21-22=0/10085, 5-22=0/10085
 WEBS 3-8=0/8470, 4-8=-4365/0, 4-8=0/4787, 2-8=-2927/494, 2-9=-341/3365

NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 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 7-05; 100mph; TCDL=6.0psf; BCDL=8.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-05; Pr=20.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp B; Partially Exp.; Ct=1.1
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- WARNING: Required bearing size at joint(s) 5 greater than input bearing size.
- Refer to girder(s) for truss to truss connections.
- "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
- Use Simpson Strong-Tie MUS28 (8-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-9-4 from the left end to 6-9-4 to connect truss(es) to back face of bottom chord.
- Use Simpson Strong-Tie MUS28 (8-10d Girder, 8-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 10-9-4 from the left end to 18-9-4 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Continued on page 2



January 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2016 BEFORE USE.
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ENGINEERING BY
TRENCO
 A MITek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job LGI_HOMES	Truss BBG	Truss Type COMMON GIRDER	Qty 1	Ply 3	Burke Roof	E11374097
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Builders FirstSource, Albemarle, NC 28001

Job Reference (optional)
7.840 s Aug 16 2017 MITek Industries, Inc. Thu Jan 18 09:50:45 2018 Page 2
ID:r7hMoJZbxPen_lpb7z5FgypDqB-2WS6ZHflmGKIVmBPWOj|b2bzJvhHwdilP1KAEJzuAKu

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-80, 3-5=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 6=-1765(B) 14=-1323(B) 15=-1320(B) 16=-1320(B) 17=-1320(B) 18=-1320(B) 19=-1765(B) 20=-1765(B) 21=-1765(B) 22=-1765(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

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A MITek Affiliate

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Edenton, NC 27932

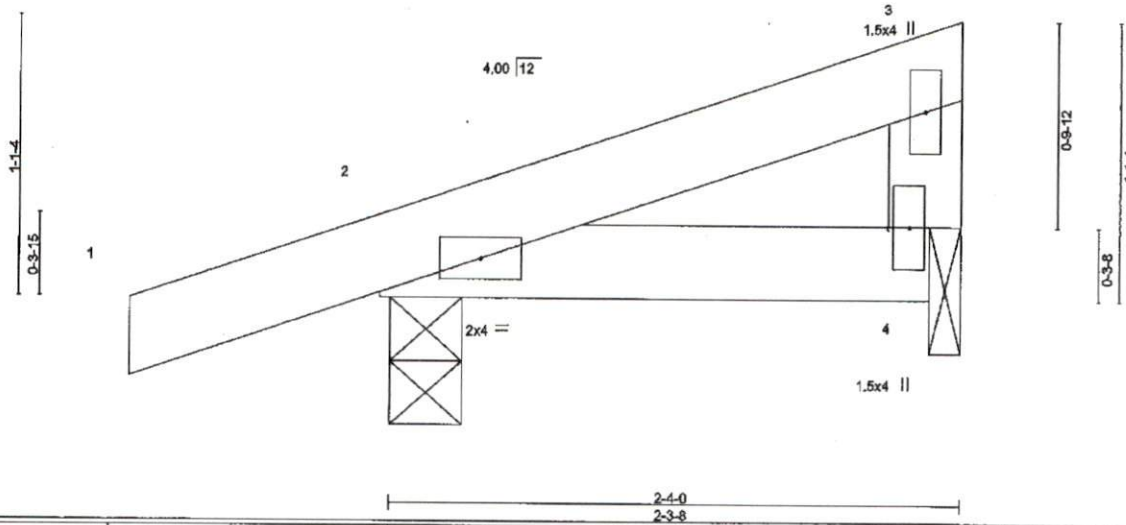
Job LGI_HOMES	Truss G1	Truss Type Monopitch	Qty 6	Ply 1	Barke Roof	E11374098
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Builders FirstSource, Albemarle, NC 28001

Job Reference (optional)
7.840 * Aug 18 2017 MITek Industries, Inc. Thu Jan 18 09:50:45 2018 Page 1
ID:17hMoJZbxPenL_bpb7z5FgypDqB-2WS8ZHlmGKIVmBPWOjlb2b5CvbwnRIP1KAEJzuAKu



Scale = 1:8.4



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	In (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) -0.00	2-4	>999	240	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Lumber DOL 1.15	BC 0.14	Vert(TL) -0.00	2-4	>999	180		
TCDL 10.0	Rep Stress Incr YES	WB 0.00	Horz(TL) 0.00		n/a	n/a		
BCLL 0.0 *	Code IRC2009/TPI2007	(Matrix)					Weight: 9 lb	FT = 20%
BCDL 10.0								

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

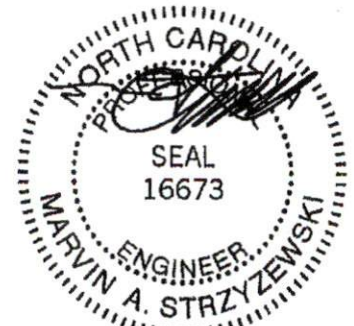
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=62/0-1-8, 2=170/0-3-8
Max Horz 2=45(LC 6)
Max Uplift 4=12(LC 8), 2=71(LC 6)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/18, 2-3=28/10, 3-4=42/40
BOT CHORD 2-4=0/0

NOTES-

- 1) Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) automatic zone 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=1.80
- 2) TCLL: ASCE 7-05; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 4 considers parallel to grain value using ANSITPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at Jt(s) 4 and 2. This connection is for uplift only and does not consider lateral forces.
- 9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



January 18, 2018

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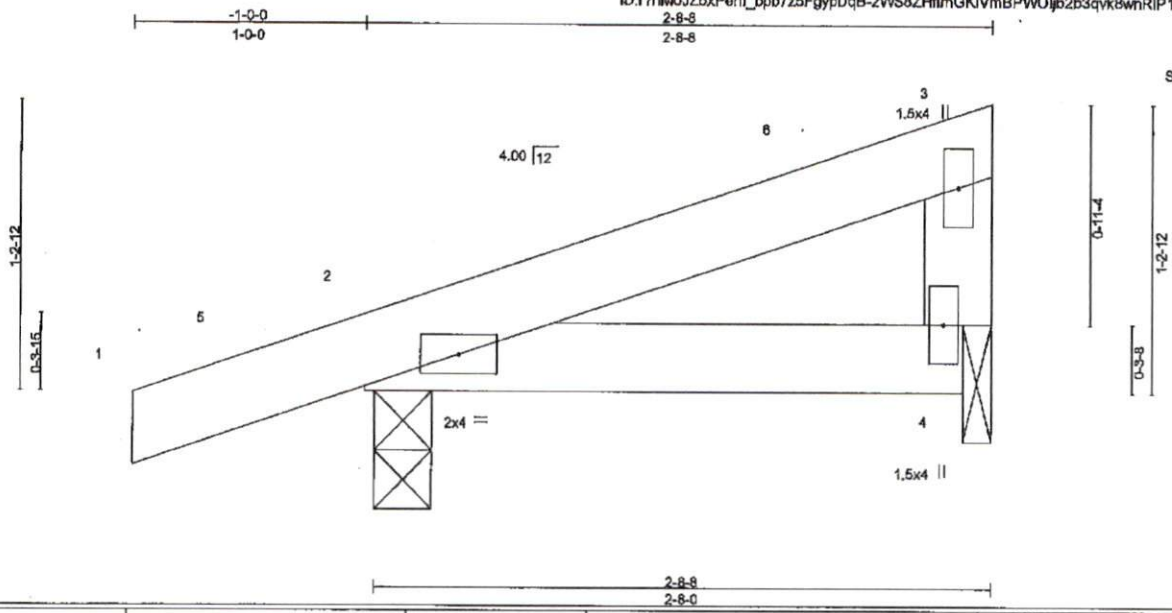
ENGINEERING BY
TRENCO
A MITek Affiliate

818 Soundside Road
Edenton, NC 27932

Job LGI_HOMES	Truss P1	Truss Type Monopitch Supported Gable	Qty 4	Ply 1	Burke Roof	E11374098
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Builders FirstSource, Albemarle, NC 28001

Job Reference (optional)
7.640 s Aug 16 2017 Mitek Industries, Inc. Thu Jan 18 08:50:45 2018 Page 1
ID:r7HMoJZbxPenI_bpb7z5FgypDqB-2WS8ZHfImGKIVmBPWOjlb2b3qvk8wnRIP1KAEJzuAKU



LOADING (psf)	SPACING-	CSI.	DEFL.	In (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof) 20.0	2-0-0	TC 0.20	Vert(LL)	-0.00	2-4	>999	240	MT20	244/190
Snow (P/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.25	Vert(TL)	-0.01	2-4	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(TL)	0.00	n/a	n/a			
BCLL 0.0 *	Rep Stress Incr YES	(Matrix)							
BCDL 10.0	Code IRC2009/TPI2007								
							Weight: 11 lb	FT = 20%	

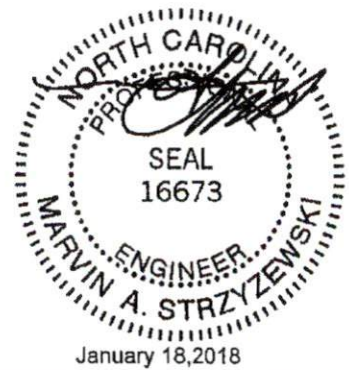
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=181/0-3-0, 4=82/0-1-8
Max Horz 2=50(LC 6)
Max Uplift 2=69(LC 6), 4=17(LC 9)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-5=0/9, 2-5=0/18, 2-6=-40/0, 3-6=-33/15, 3-4=-58/89
BOT CHORD 2-4=0/0

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) automatic zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 2-6-12 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
 - 2) 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.
 - 3) TCLL: ASCE 7-05; P=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
 - 11) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



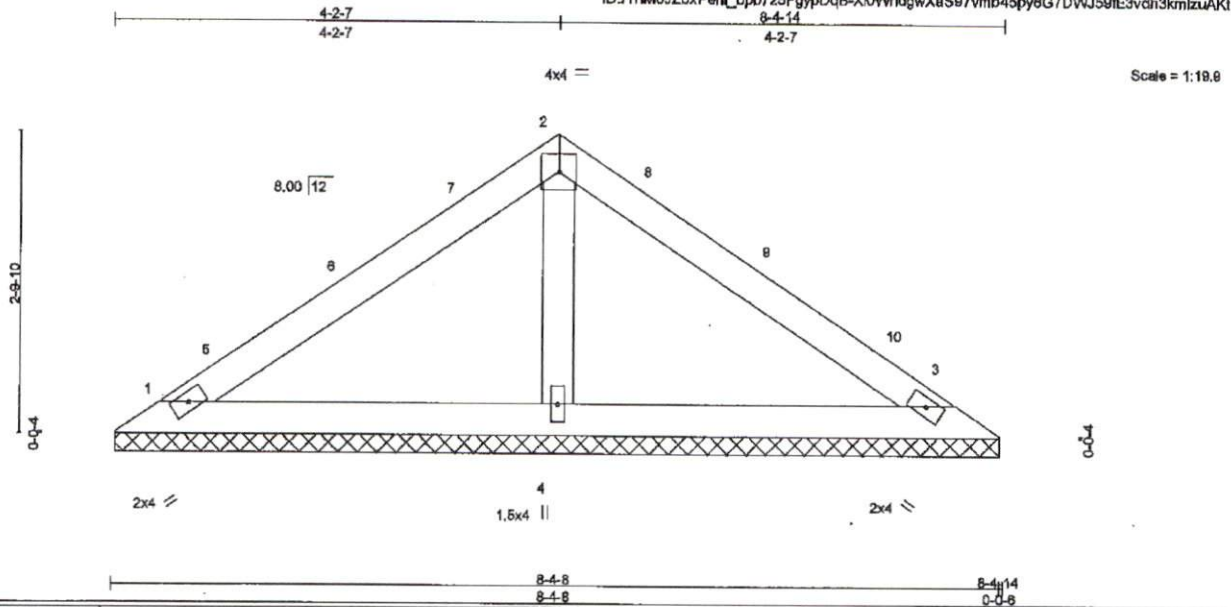
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MH-7473 rev. 10/02/2015 BEFORE USE.
Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A Mitek Affiliate
818 Soundside Road
Edenon, NC 27632

Job LGI_HOMES	Truss V1	Truss Type Valley	Qty 1	Ply 1	Burka Roof	E11374100
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Builders FirstSource, Aberrante, NC 28001

Job Reference (optional)
7.640 s Aug 16 2017 MITek Industries, Inc. Thu Jan 18 09:50:46 2018 Page 1
ID:r7hMoJZbxPenL_bpb7z5FgypDqB-XiOWhdgwXaS97vmb45py8G7DWJ59IE3vch3kmbzuAKI



LOADING (psf)	SPACING-	CSI	DEFL.	In (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.26	Vert(LL)	n/a	-	n/a	999	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.14	Vert(TL)	n/a	-	n/a	999	
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(TL)	0.00	3	n/a	n/a	
BCLL 0.0 *	Rep Stress Incr YES	(Matrix)						
BCDL 10.0	Code IRC2009/TP12007							
							Weight: 29 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

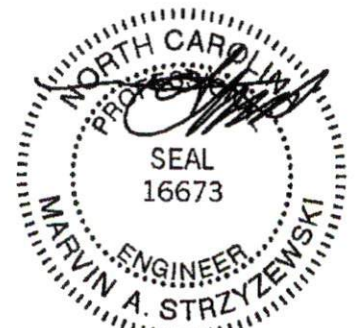
BRACING-
TOP CHORD Structural wood sheathing directly applied or 8-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=161/8-4-2, 3=161/8-4-2, 4=274/8-4-2
Max Horz 1=71(LC 9)
Max Uplift 1=46(LC 10), 3=49(LC 11), 4=5(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-5=-88/31, 5-6=-38/38, 6-7=-37/39, 2-7=-22/48, 2-8=-13/45, 8-9=-37/36, 9-10=-38/35, 3-10=-88/28
BOT CHORD 1-4=-15/35, 3-4=-15/35
WEBS 2-4=-181/62

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-2-7, Exterior(2) 4-2-7 to 7-2-7 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
- TCLL: ASCE 7-05; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at Jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at Jt(s) 4. This connection is for uplift only and does not consider lateral forces.
- "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.



January 18, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 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, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing Indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITP1 Quality Criteria, D88-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

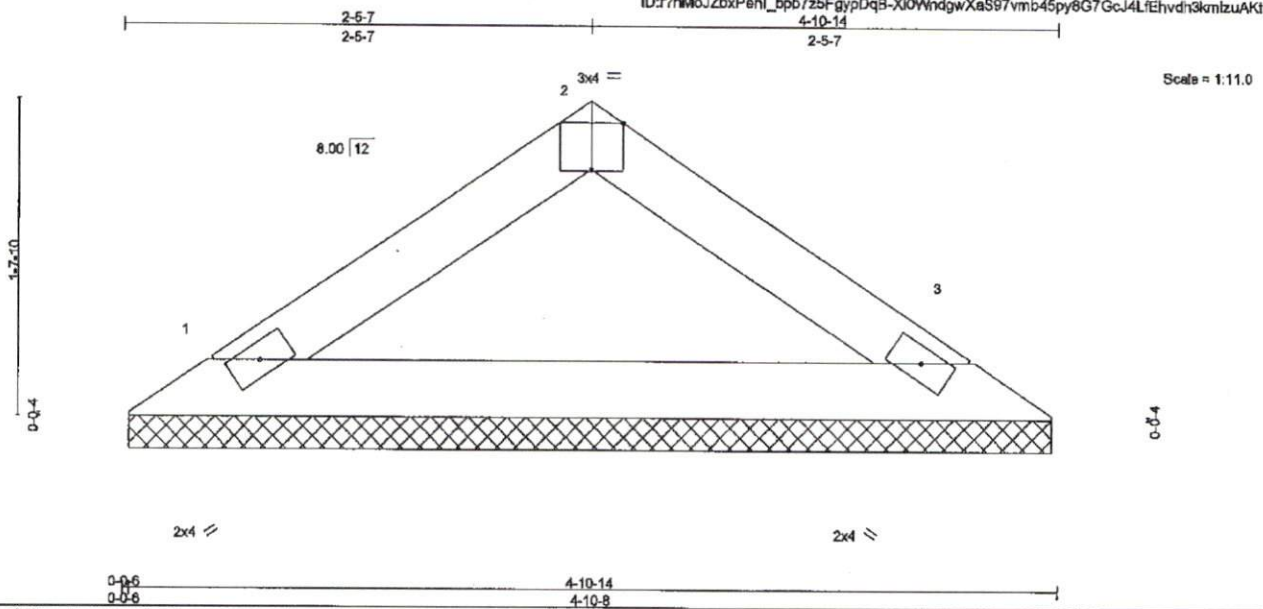
ENGINEERING BY
TRENCO
A MITek Affiliate

816 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Burke Roof	E11374101
LGI_HOMES	V2	Valley	1	1		

Builders FirstSource, Albemarle, NC 28001

Job Reference (optional)
 7.640 s Aug 16 2017 Mitek Industries, Inc. Thu Jan 18 08:50:48 2018 Page 1
 ID:r7hMoJZbxPenl_bpb7z5FaypDqB-XiOWndgwXaS97vmb45py6G7GcJ4LrEhvdn3kmlzuAKI
 4-10-14
 2-5-7



LOADING (psf)		SPACING-	CSI.	DEFL.	In (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	2-0-0	TC 0.07	Vert(LL)	n/a	n/a	999	MT20	244/190
Snow (P/Pg)	15.4/20.0	Lumber DOL 1.15	BC 0.19	Vert(TL)	n/a	n/a	999		
TCDL	10.0	Rep Stress Incr YES	WB 0.00	Horz(TL)	0.00	3	n/a		
BCLL	0.0	Code IRC2009/TPI2007	(Matrix)						
BCDL	10.0							Weight: 14 lb	FT = 20%

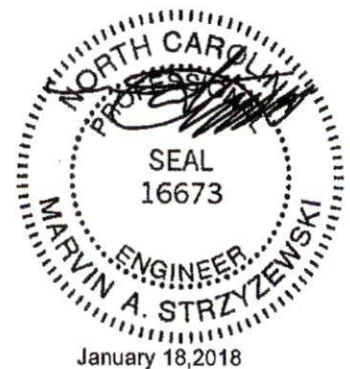
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-14 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=158/4-10-2, 3=158/4-10-2
 Max Horz 1=38(LC 6)
 Max Uplift 1=28(LC 8), 3=28(LC 8)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-133/59, 2-3=-133/59
 BOT CHORD 1-3=-17/89

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) automatic zone 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
- TCLL: ASCE 7-05; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1; Min. flat roof snow load governs.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at j(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
- "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

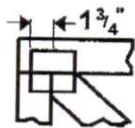


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2016 BEFORE USE.
 Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSUTPH Quality Criteria, D6B-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

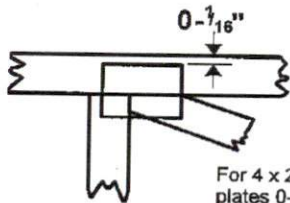
ENGINEERING BY
TRENCO
 A Mitek Affiliate
 818 Soundside Road
 Edenton, NC 27932

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- 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

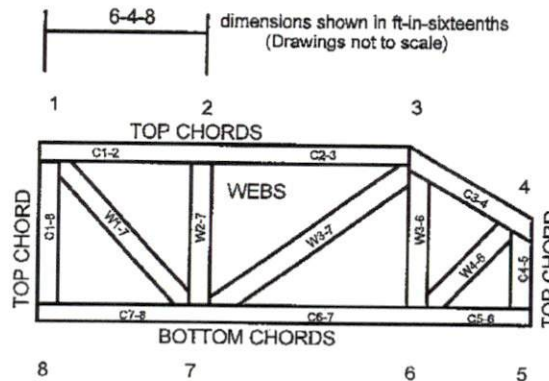


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.

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MITek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



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.

