

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: Master_FT
John Dove-Aubrey Elev A 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-Apex,NC.

Pages or sheets covered by this seal: I50793028 thru I50793044

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



March 16,2022

Gilbert, Eric

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 MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or 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 design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	John Dove-Aubrey Elev A Floor	150793028
MASTER_FT	F01	ROOF TRUSS	8	1		

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 15 13:16:46 2022 Page 1
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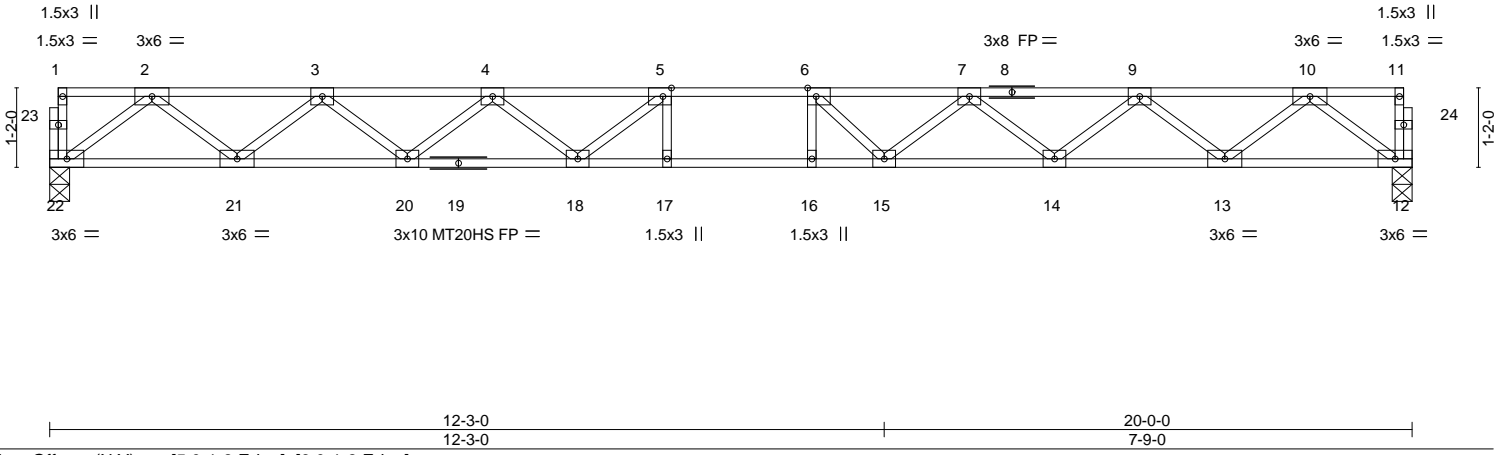
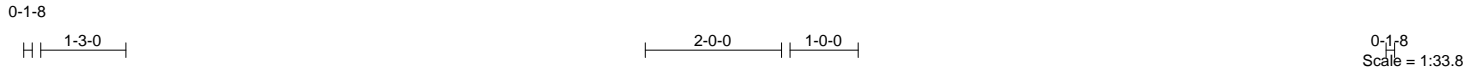


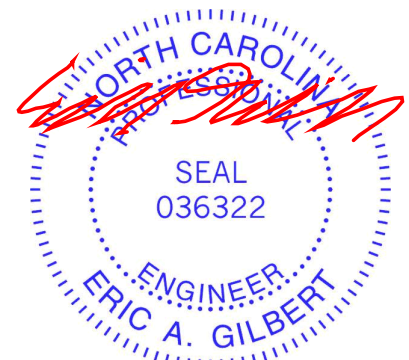
Plate Offsets (X,Y)--	[5:0-1-8,Edge], [6:0-1-8,Edge]				
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.33	Vert(LL) -0.32 16-17 >747 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.60	Vert(CT) -0.44 16-17 >543 240	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.48	Horz(CT) 0.07 12 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 99 lb	FT = 20%F, 11%E

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

REACTIONS. (size) 22=0-3-8, 12=0-3-8
Max Grav 22=863(LC 1), 12=863(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1869/0, 3-4=-3134/0, 4-5=-3862/0, 5-6=-4082/0, 6-7=-3869/0, 7-9=-3132/0, 9-10=-1869/0
BOT CHORD 21-22=0/1087, 20-21=0/2623, 18-20=0/3623, 17-18=0/4082, 16-17=0/4082, 15-16=0/4082, 14-15=0/3614, 13-14=0/2625, 12-13=0/1087
WEBS 2-22=-1362/0, 10-12=-1361/0, 2-21=0/1017, 10-13=0/1018, 3-21=-982/0, 9-13=-984/0, 3-20=0/665, 9-14=0/659, 4-20=-637/0, 7-14=-628/0, 4-18=0/429, 7-15=0/458, 5-18=-540/71, 6-15=-553/70

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 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.



March 16, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	John Dove-Aubrey Elev A Floor	150793029
MASTER_FT	F02	ROOF TRUSS	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 15 13:16:47 2022 Page 1
 ID:dRVmNXyYpCMHM7S_dAPALNzJB0a-eeiqHVcsXVBvEJRNeNely1kl9XdJNeV0SM9dNM9zagnk

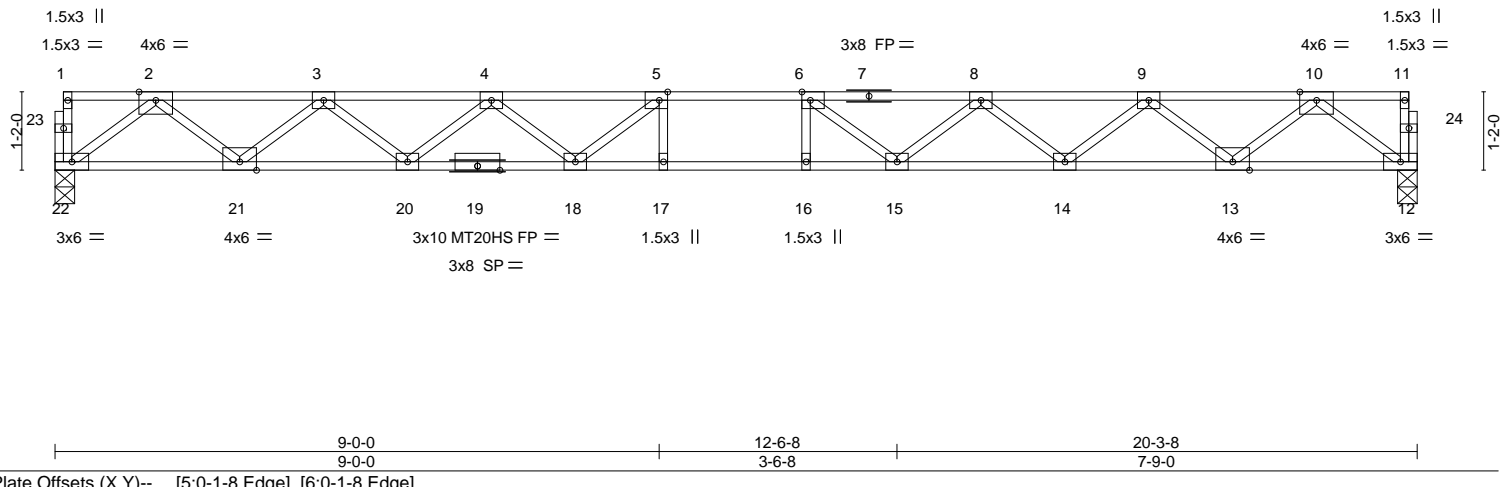
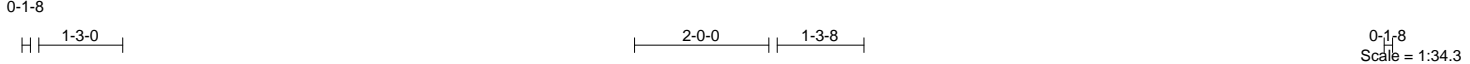


Plate Offsets (X,Y)--	[5:0-1-8,Edge], [6:0-1-8,Edge]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP		
TCLL 40.0	Plate Grip DOL 1.00	TC 0.51	Vert(LL) -0.42 16-17 >576 360	MT20	244/190		
TCDL 10.0	Lumber DOL 1.00	BC 0.75	Vert(CT) -0.57 16-17 >418 240	MT20HS	187/143		
BCLL 0.0	Rep Stress Incr YES	WB 0.62	Horz(CT) 0.09 12 n/a n/a				
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 100 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP SS(flat)	TOP CHORD Structural wood sheathing directly applied or 5-11-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP SS(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 22=0-3-8, 12=0-3-8
 Max Grav 22=1096(LC 1), 12=1096(LC 1)

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

TOP CHORD 2-3=-2378/0, 3-4=-3998/0, 4-5=-4948/0, 5-6=-5262/0, 6-8=-4946/0, 8-9=-3999/0, 9-10=-2377/0

BOT CHORD 21-22=0/1381, 20-21=0/3341, 18-20=0/4627, 17-18=0/5262, 16-17=0/5262, 15-16=0/5262, 14-15=0/4629, 13-14=0/3340, 12-13=0/1381

WEBS 2-22=-1730/0, 10-12=-1730/0, 2-21=0/1297, 10-13=0/1297, 3-21=-1254/0, 9-13=-1253/0, 3-20=0/856, 9-14=0/857, 4-20=-818/0, 8-14=-820/0, 4-18=0/563, 8-15=0/557, 5-18=-724/71, 6-15=-722/71

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) The Fabrication Tolerance at joint 19 = 11%
 - 5) 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.



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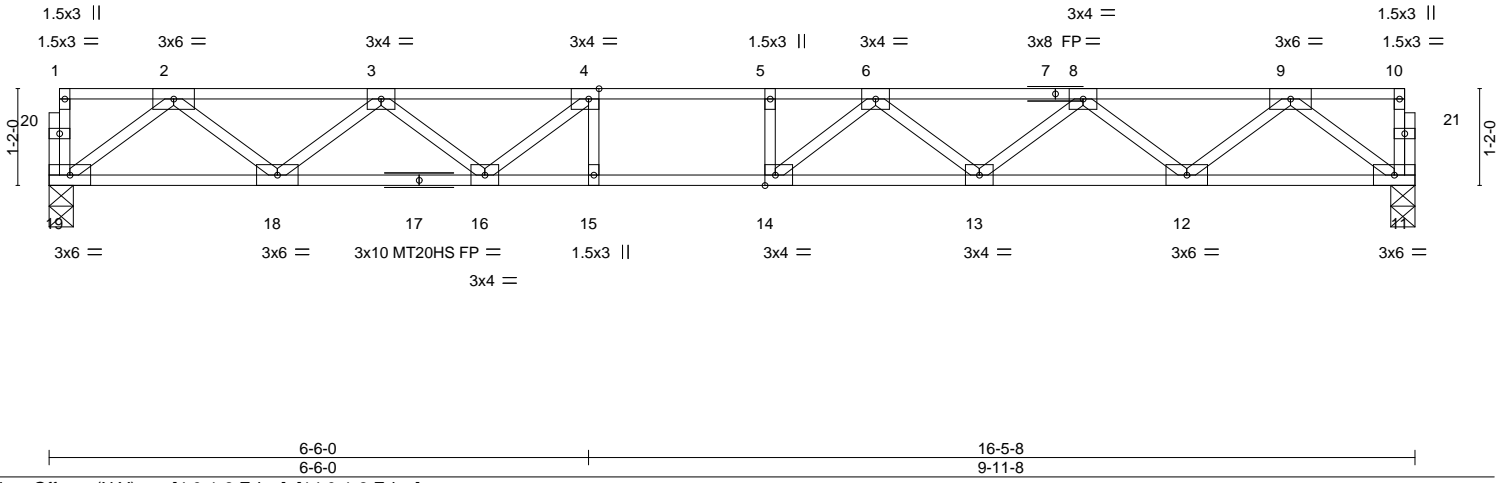
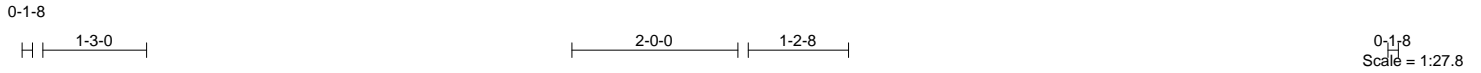
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job MASTER_FT	Truss F03	Truss Type ROOF TRUSS	Qty 5	Ply 1	John Dove-Aubrey Elev A Floor 150793030
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 15 13:16:47 2022 Page 1

ID:dRVmNXyYpCMHM7S_dAPALNzJB0a-eeiqHVcsXVBvEjRNelny1kl6?dGeeXRSM9dNM9zagnk



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.74	Vert(LL) -0.25 13-14 >781 360	MT20 244/190	
TCDL 10.0	Lumber DOL 1.00	BC 0.93	Vert(CT) -0.34 13-14 >569 240	MT20HS 187/143	
BCLL 0.0	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.06 11 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 82 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
11-17: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 14-15.

REACTIONS. (size) 19=0-3-8, 11=0-3-8
Max Grav 19=885(LC 1), 11=885(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1850/0, 3-4=-2962/0, 4-5=-3408/0, 5-6=-3408/0, 6-8=-2968/0, 8-9=-1849/0
BOT CHORD 18-19=0/1106, 16-18=0/2555, 15-16=0/3408, 14-15=0/3408, 13-14=0/3320, 12-13=0/2566, 11-12=0/1102
WEBS 2-19=-1385/0, 9-11=-1380/0, 2-18=0/968, 9-12=0/971, 3-18=-917/0, 8-12=-934/0, 3-16=0/577, 8-13=0/522, 4-16=-731/0, 6-13=-459/0, 6-14=-175/472

- 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.



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job MASTER_FT	Truss F03G	Truss Type ROOF TRUSS	Qty 1	Ply 1	John Dove-Aubrey Elev A Floor 150793031 Job Reference (optional)
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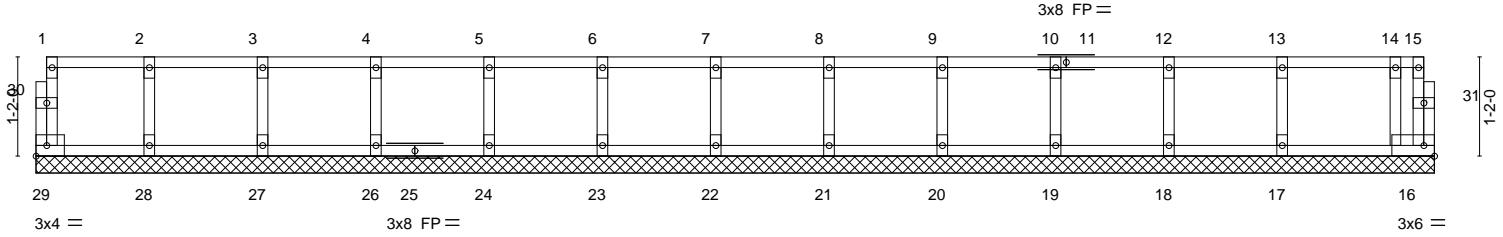
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 15 13:16:48 2022 Page 1
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0-1/8

0-1/8

Scale = 1:27.1



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	in	(loc)	l/defl	L/d	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(LL)	n/a	-	n/a		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Vert(CT)	n/a	-	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R		Horz(CT)	0.00	16	n/a		
										Weight: 70 lb	FT = 20%F, 11%E

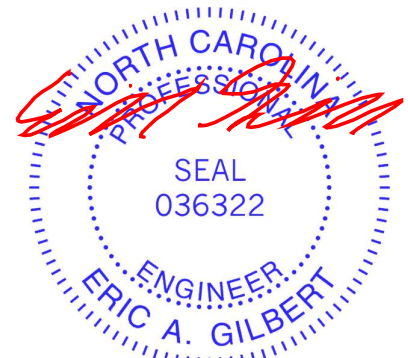
LUMBER-
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

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. All bearings 16-5-8.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 29, 16, 28, 27, 26, 24, 23, 22, 21, 20, 19, 18, 17

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) 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.



March 16, 2022

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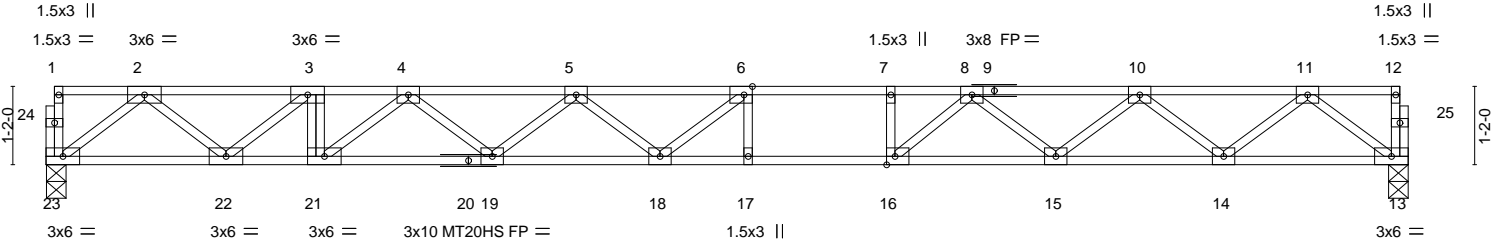
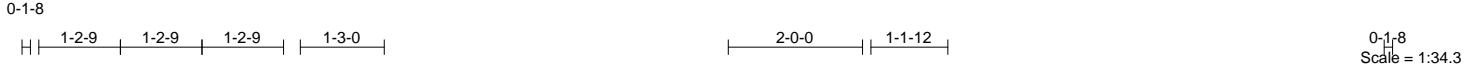
818 Soundside Road
 Edenton, NC 27932

Job MASTER_FT	Truss F03GR	Truss Type ROOF TRUSS	Qty 1	Ply 2	John Dove-Aubrey Elev A Floor 150793032
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 15 13:16:49 2022 Page 1

ID:dRVmNXyYpCMHM7S_dAPALNzJB0a-a1qaiBd637RdU1bmmApQ69qQzRyw6RxlP6UR2zagni



0-0-1	4-0-4	10-4-12	20-3-8
0-0-1	4-0-3	6-4-8	9-10-12

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [16:0-1-8,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 0.77	Vert(LL)	-0.33	17-18	>722	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.88	Vert(CT)	-0.46	17-18	>523	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	NO	WB 0.46	Horz(CT)	0.06	13	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 205 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat) *Except* 1-9: 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat) *Except* 13-20: 2x4 SP SS(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 23=0-3-8, 13=0-3-8
Max Grav 23=1539(LC 1), 13=1203(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3398/0, 3-4=-4993/0, 4-5=-5991/0, 5-6=-6312/0, 6-7=-6036/0, 7-8=-6036/0,
8-10=-4472/0, 10-11=-2657/0
BOT CHORD 22-23=0/1923, 21-22=0/4993, 19-21=0/5609, 18-19=0/6359, 17-18=0/6036, 16-17=0/6036,
15-16=0/5287, 14-15=0/3734, 13-14=0/1522
WEBS 3-21=0/484, 2-23=-2433/0, 2-22=0/1942, 3-22=-2020/0, 4-21=-774/0, 11-13=-1906/0,
4-19=0/497, 11-14=0/1478, 5-19=-479/0, 10-14=-1402/0, 5-18=-269/159, 10-15=0/960,
6-18=-79/677, 8-15=-1062/0, 8-16=0/1270, 6-17=-399/0, 7-16=-503/0

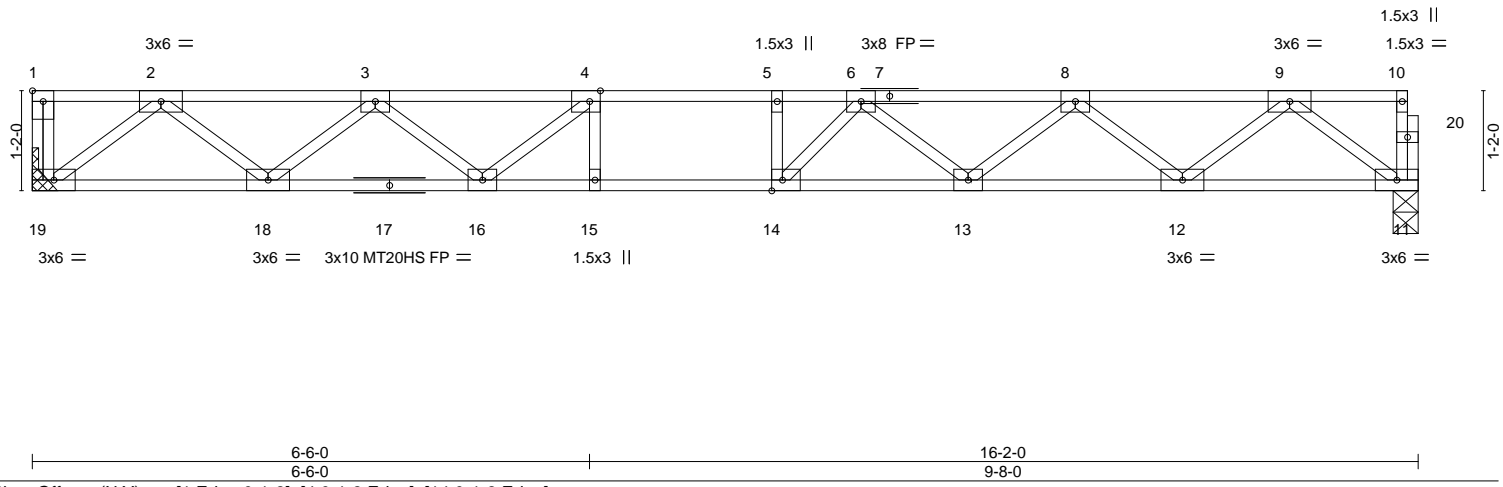
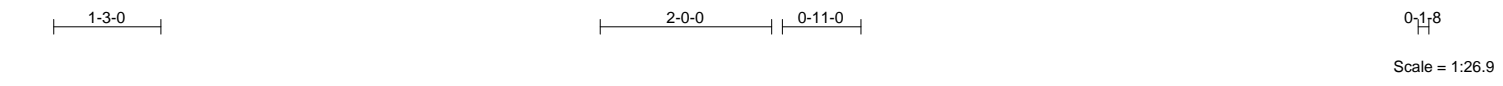
- NOTES-**
- 1) Fasten trusses together to act as a single unit as per standard industry detail, or loads are to be evenly applied to all plies.
 - 2) Unbalanced floor live loads have been considered for this design.
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) All plates are 3x4 MT20 unless otherwise indicated.
 - 5) 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.
 - 6) CAUTION, Do not erect truss backwards.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 629 lb down at 3-10-9 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) 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 (plf)
Vert: 13-23=-10, 1-12=-100
Concentrated Loads (lb)
Vert: 3=-549(B)



Job MASTER_FT	Truss F04	Truss Type ROOF TRUSS	Qty 3	Ply 1	John Dove-Aubrey Elev A Floor 150793033
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 15 13:16:50 2022 Page 1
 ID:dRVmNXyYpCMHM7S_dAPALNzJB0a-2DNyVXekqZU5AAyKtKfeNNcnrIWruMu27r1zUzagh



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.71	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.85	Vert(LL) -0.22 13-14 >863 360	MT20HS	187/143
BCLL 0.0	Lumber DOL 1.00	WB 0.45	Vert(CT) -0.30 13-14 >629 240		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.05 11 n/a n/a		
	Code IRC2015/TPI2014			Weight: 81 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat) *Except* 11-17: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 19=Mechanical, 11=0-3-8
 Max Grav 19=875(LC 1), 11=869(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1810/0, 3-4=-2883/0, 4-5=-3292/0, 5-6=-3292/0, 6-8=-2885/0, 8-9=-1809/0
 BOT CHORD 18-19=0/1085, 16-18=0/2498, 15-16=0/3292, 14-15=0/3292, 13-14=0/3222, 12-13=0/2506,
 11-12=0/1082
 WEBS 2-19=-1361/0, 9-11=-1354/0, 2-18=0/944, 9-12=0/947, 3-18=-895/0, 8-12=-907/0,
 3-16=0/550, 8-13=0/493, 4-16=-685/0, 6-13=-439/0, 6-14=-183/456

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) 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.
 - 6) CAUTION, Do not erect truss backwards.



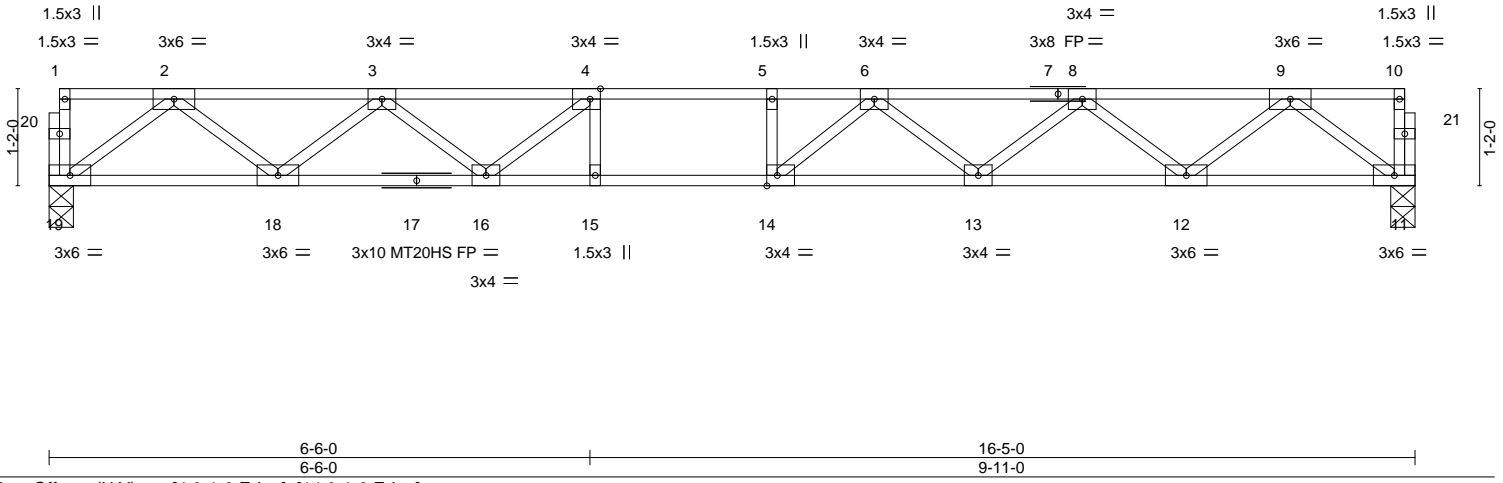
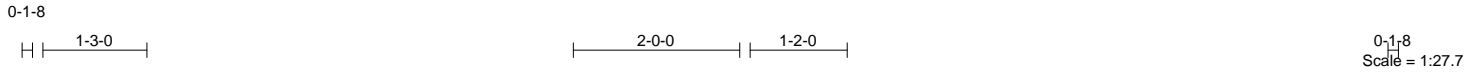
March 16, 2022

Job MASTER_FT	Truss F05	Truss Type ROOF TRUSS	Qty 3	Ply 1	John Dove-Aubrey Elev A Floor 150793034
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 15 13:16:50 2022 Page 1

ID:dRVmNXyYpCMHM7S_dAPALNzJB0a-2DNyVXekqQZU5AAyKtKfeNncJrHWruDu27r1zUzagh



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.74	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.92	Vert(LL) -0.24 13-14 >792 360	MT20HS	187/143
BCLL 0.0	Lumber DOL 1.00	WB 0.46	Vert(CT) -0.34 13-14 >577 240		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 11 n/a n/a		
	Code IRC2015/TPI2014			Weight: 81 lb	FT = 20%F, 11%E

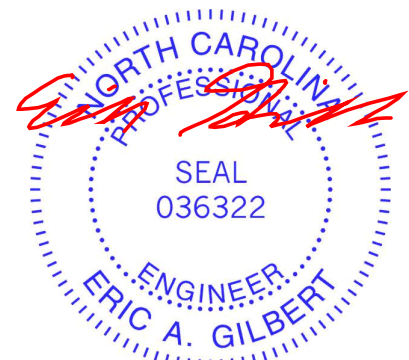
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
11-17: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 14-15.

REACTIONS. (size) 19=0-3-8, 11=0-3-8
Max Grav 19=883(LC 1), 11=883(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1844/0, 3-4=-2951/0, 4-5=-3392/0, 5-6=-3392/0, 6-8=-2956/0, 8-9=-1843/0
BOT CHORD 18-19=0/1103, 16-18=0/2546, 15-16=0/3392, 14-15=0/3392, 13-14=0/3306, 12-13=0/2558, 11-12=0/1099
WEBS 2-19=-1381/0, 9-11=-1376/0, 2-18=0/965, 9-12=0/968, 3-18=-914/0, 8-12=-930/0, 3-16=0/573, 8-13=0/518, 4-16=-725/0, 6-13=-456/0, 6-14=-176/469

- 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.



March 16, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job MASTER_FT	Truss F06	Truss Type ROOF TRUSS	Qty 2	Ply 1	John Dove-Aubrey Elev A Floor 150793035
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 15 13:16:51 2022 Page 1
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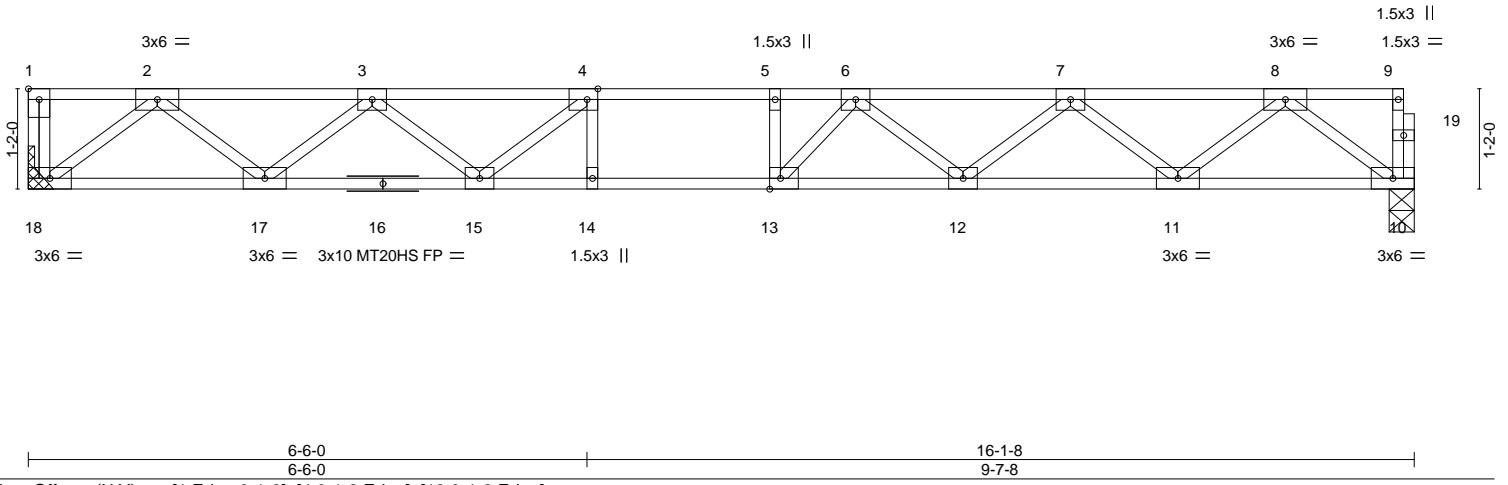
Job Reference (optional)

1-3-0

2-0-0 0-10-8

0-1-8

Scale = 1:26.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.84	Vert(LL) -0.22 12-13 >876 360	MT20HS	187/143
BCLL 0.0	Lumber DOL 1.00	WB 0.45	Vert(CT) -0.30 12-13 >638 240		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.05 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 81 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat) *Except* 10-16: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 18=Mechanical, 10=0-3-8
Max Grav 18=873(LC 1), 10=867(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1805/0, 3-4=-2871/0, 4-5=-3276/0, 5-6=-3276/0, 6-7=-2874/0, 7-8=-1804/0
BOT CHORD 17-18=0/1082, 15-17=0/2490, 14-15=0/3276, 13-14=0/3276, 12-13=0/3209, 11-12=0/2498,
10-11=0/1079
WEBS 2-18=-1358/0, 8-10=-1350/0, 2-17=0/941, 8-11=0/944, 3-17=-892/0, 7-11=-904/0,
3-15=0/546, 7-12=0/489, 4-15=-679/0, 6-12=-436/0, 6-13=-185/455

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) 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.
 - 6) CAUTION, Do not erect truss backwards.



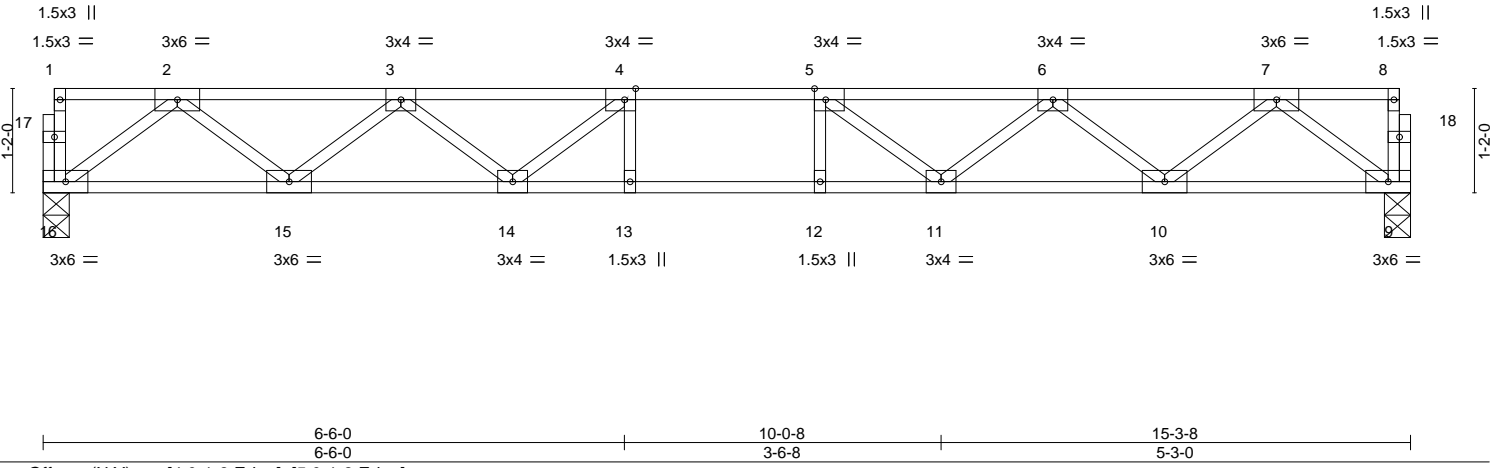
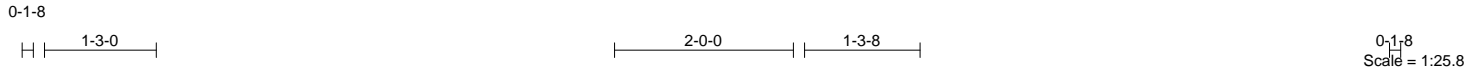
March 16, 2022

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	 <p>818 Soundside Road Edenton, NC 27932</p>
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Job MASTER_FT	Truss F07	Truss Type ROOF TRUSS	Qty 8	Ply 1	John Dove-Aubrey Elev A Floor 150793036
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 15 13:16:52 2022 Page 1
ID:dRVmNXyYpCMHM7S_dAPALNzJB0a_cVjKdf_M2pBLUKLRIM7koS0ne?xJpOBVRK82Nzagnf



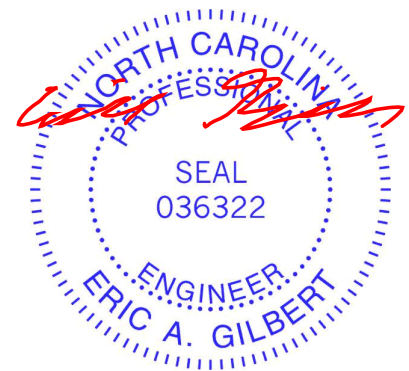
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.48	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.79	Vert(LL) -0.17 11-12 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.42	Vert(CT) -0.23 11-12 >791 240		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	Horz(CT) 0.04 9 n/a n/a		
				Weight: 76 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 16=0-3-8, 9=0-3-8
Max Grav 16=821(LC 1), 9=821(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1690/0, 3-4=-2643/0, 4-5=-2957/0, 5-6=-2642/0, 6-7=-1691/0
BOT CHORD 15-16=0/1019, 14-15=0/2326, 13-14=0/2957, 12-13=0/2957, 11-12=0/2957, 10-11=0/2328, 9-10=0/1018
WEBS 2-16=-1275/0, 7-9=-1275/0, 2-15=0/874, 7-10=0/875, 3-15=-828/0, 6-10=-830/0, 3-14=0/468, 6-11=0/463, 4-14=-587/0, 5-11=-584/0

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.



Job MASTER_FT	Truss F08	Truss Type ROOF TRUSS	Qty 3	Ply 1	John Dove-Aubrey Elev A Floor 150793037
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 15 13:16:52 2022 Page 1

ID:dRVmNXyYpCMHM7S_dAPALNzJB0a_cVjKdF_M2pBLUKLRIM7koS0fe2QJrBBVRK82Nzagnf

0-1-8



0-1-8
Scale = 1:21.3

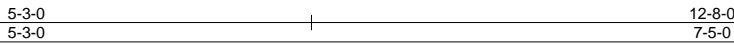
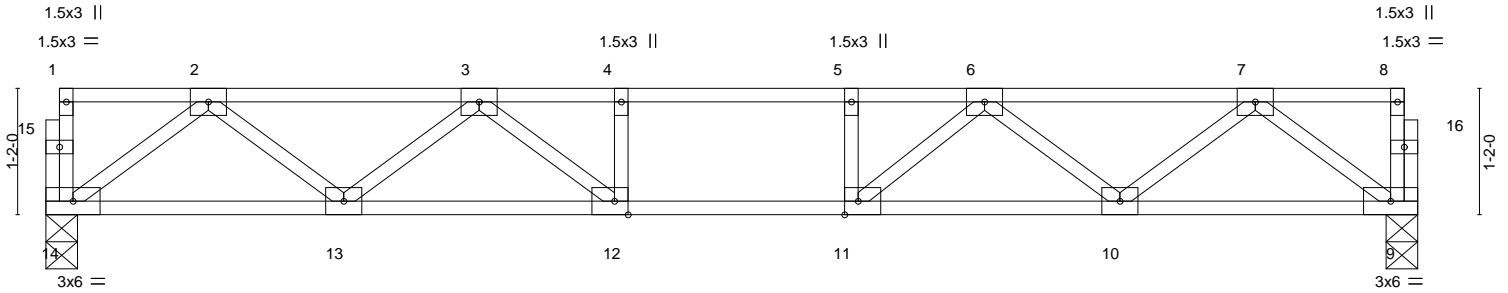


Plate Offsets (X,Y)--	[11:0-1-8,Edge], [12:0-1-8,Edge]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP		
TCLL 40.0	Plate Grip DOL 1.00	TC 0.49	Vert(LL) -0.11 12-13 >999 360	MT20	244/190		
TCDL 10.0	Lumber DOL 1.00	BC 0.63	Vert(CT) -0.14 12-13 >999 240				
BCLL 0.0	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.03 9 n/a n/a				
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					
						Weight: 63 lb	FT = 20%F, 11%E

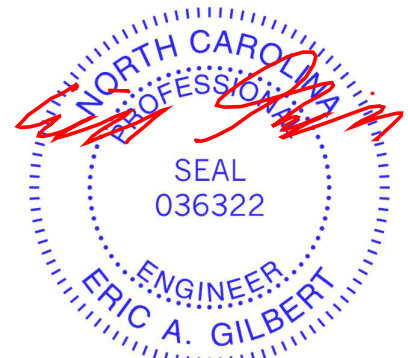
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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. (size) 14=0-3-8, 9=0-3-8
Max Grav 14=677(LC 1), 9=677(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1323/0, 3-4=-1994/0, 4-5=-1994/0, 5-6=-1994/0, 6-7=-1321/0
BOT CHORD 13-14=0/836, 12-13=0/1773, 11-12=0/1994, 10-11=0/1774, 9-10=0/835
WEBS 2-14=-1046/0, 7-9=-1046/0, 2-13=0/634, 7-10=0/632, 3-13=-587/0, 6-10=-589/0,
3-12=0/487, 6-11=0/493

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 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.



March 16, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	John Dove-Aubrey Elev A Floor	150793038
MASTER_FT	F08G	ROOF TRUSS	1	1	Job Reference (optional)	

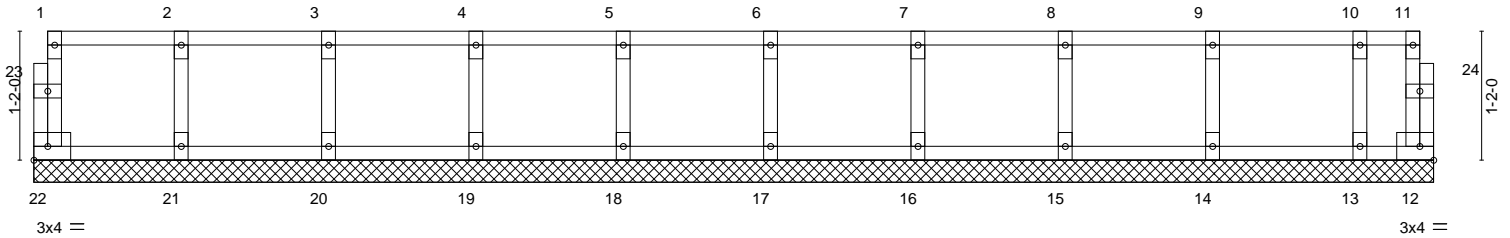
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 15 13:16:53 2022 Page 1
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0.1:8

0.1:8

Scale = 1:20.8



12-8-0
12-8-0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr NO	WB 0.03	Horz(CT)	0.00	12	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R					Weight: 55 lb	FT = 20%F, 11%E

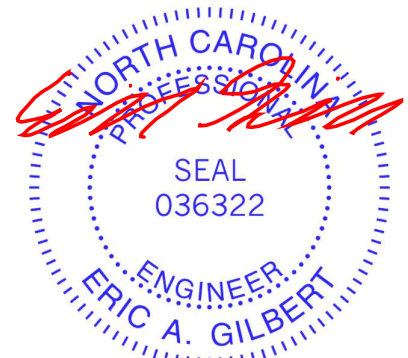
LUMBER-
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

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. All bearings 12-8-0.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) 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.



March 16, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job MASTER_FT	Truss F10	Truss Type ROOF TRUSS	Qty 3	Ply 1	John Dove-Aubrey Elev A Floor 150793039
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 15 13:16:53 2022 Page 1

ID:dRVmNXyYpCMHM7S_dAPALNzJB0a-To35YZgd6Lx2yevX?0uMG??BI2NS2JPKk54hapzagne

0-1-8



0-1-8
Scale = 1:18.4

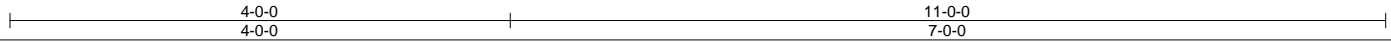
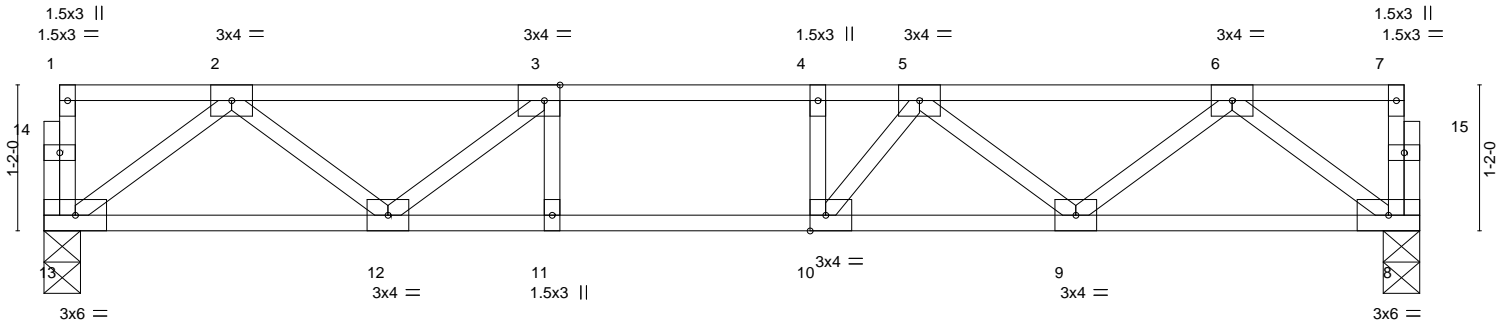


Plate Offsets (X,Y)--	[3:0-1-8,Edge], [10:0-1-8,Edge]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP		
TCLL 40.0	Plate Grip DOL 1.00	TC 0.47	Vert(LL) -0.09 9-10 >999 360	MT20	244/190		
TCDL 10.0	Lumber DOL 1.00	BC 0.65	Vert(CT) -0.11 9-10 >999 240				
BCLL 0.0	Rep Stress Incr YES	WB 0.24	Horz(CT) 0.02 8 n/a n/a				
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S				Weight: 56 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.

(size) 13=0-3-8, 8=0-3-8
 Max Grav 13=585(LC 1), 8=585(LC 1)

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

TOP CHORD 2-3=-1095/0, 3-4=-1486/0, 4-5=-1486/0, 5-6=-1095/0
 BOT CHORD 12-13=0/708, 11-12=0/1486, 10-11=0/1486, 9-10=0/1434, 8-9=0/714
 WEBS 2-13=-885/0, 6-8=-894/0, 2-12=0/504, 6-9=0/495, 3-12=-522/0, 5-9=-442/0, 5-10=-81/323

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.



March 16, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Job MASTER_FT	Truss F10G	Truss Type ROOF TRUSS	Qty 1	Ply 1	John Dove-Aubrey Elev A Floor Job Reference (optional)	150793040
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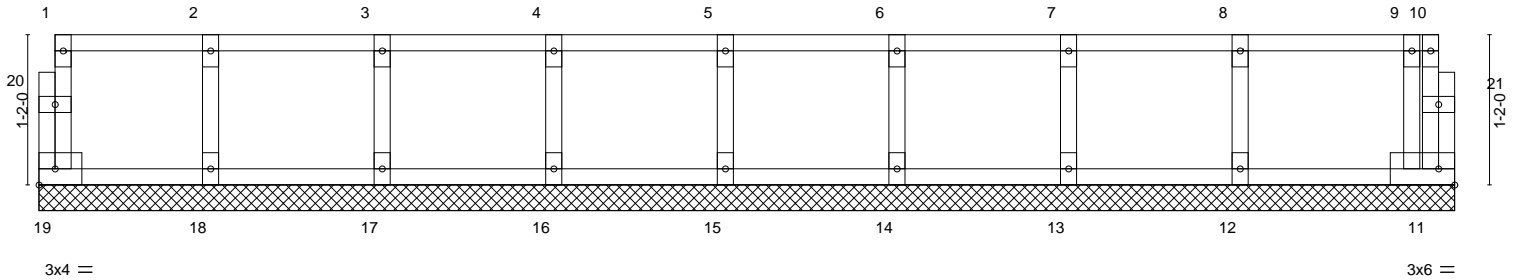
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 15 13:16:54 2022 Page 1
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0,1-8

0,1-8

Scale = 1:17.9



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	in	(loc)	l/defl	L/d	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(LL)	n/a	-	n/a		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Vert(CT)	n/a	-	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-R		Horz(CT)	0.00	11	n/a		
										Weight: 48 lb	FT = 20%F, 11%E

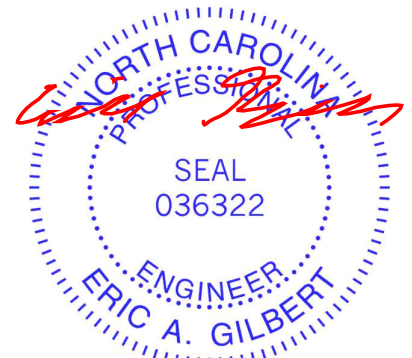
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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. All bearings 11-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 19, 11, 18, 17, 16, 15, 14, 13, 12

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) 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.



March 16, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



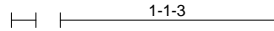
818 Soundside Road
Edenton, NC 27932

Job MASTER_FT	Truss F11GR	Truss Type ROOF TRUSS	Qty 1	Ply 1	John Dove-Aubrey Elev A Floor I50793041
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 15 13:16:55 2022 Page 1
ID:dRVmNXyYpCMHM7S_dAPALNzJB0a-PBBryFitezBmCy2w6RwLQ4RBS2hW3KdCPZoeizagnc

0-1-8



0-1-8
Scale = 1:11.8

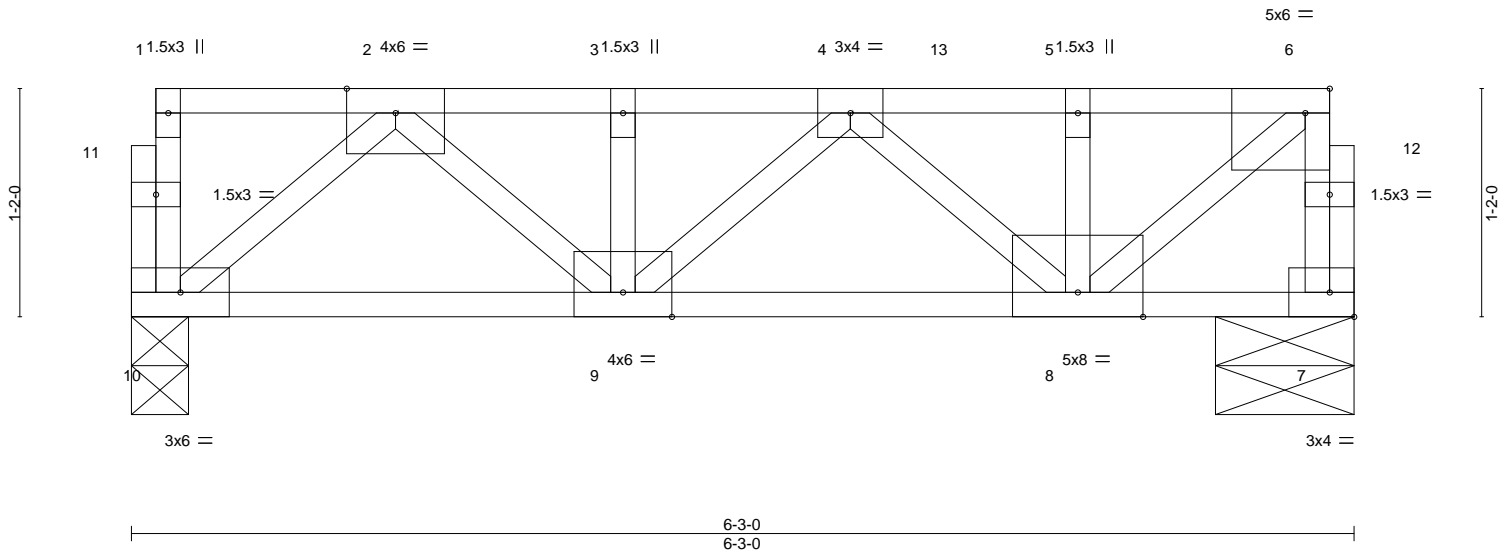


Plate Offsets (X,Y)--	[6:0-1-8,Edge]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP		
TCLL 40.0	Plate Grip DOL 1.00	TC 0.86	Vert(LL) -0.03 8-9 >999 360	MT20	244/190		
TCDL 10.0	Lumber DOL 1.00	BC 0.66	Vert(CT) -0.04 8-9 >999 240				
BCLL 0.0	Rep Stress Incr NO	WB 0.85	Horz(CT) 0.01 7 n/a n/a				
BCDL 5.0	Code IRC2015/TPI2014	Matrix-P					
						Weight: 37 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD 2x4 SP No.1(flat)		TOP CHORD	Structural wood sheathing directly applied or 6-0-0 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. (size) 7=0-8-8, 10=0-3-8
Max Grav 7=1174(LC 1), 10=1847(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-866/0, 6-7=-1167/0, 2-3=-2086/0, 3-4=-2086/0, 4-5=-1434/0, 5-6=-1434/0
BOT CHORD 9-10=0/1192, 8-9=0/2098
WEBS 2-10=-1496/0, 2-9=0/1201, 3-9=-767/0, 4-8=-892/0, 5-8=-551/0, 6-8=0/1791

NOTES-
1) 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.
2) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 822 lb down at 0-2-4, and 775 lb down at 2-3-0, and 775 lb down at 4-3-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
3) 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 (plf)
Vert: 7-10=-10, 1-6=-100
Concentrated Loads (lb)
Vert: 1=-822(B) 3=-775(B) 13=-775(B)



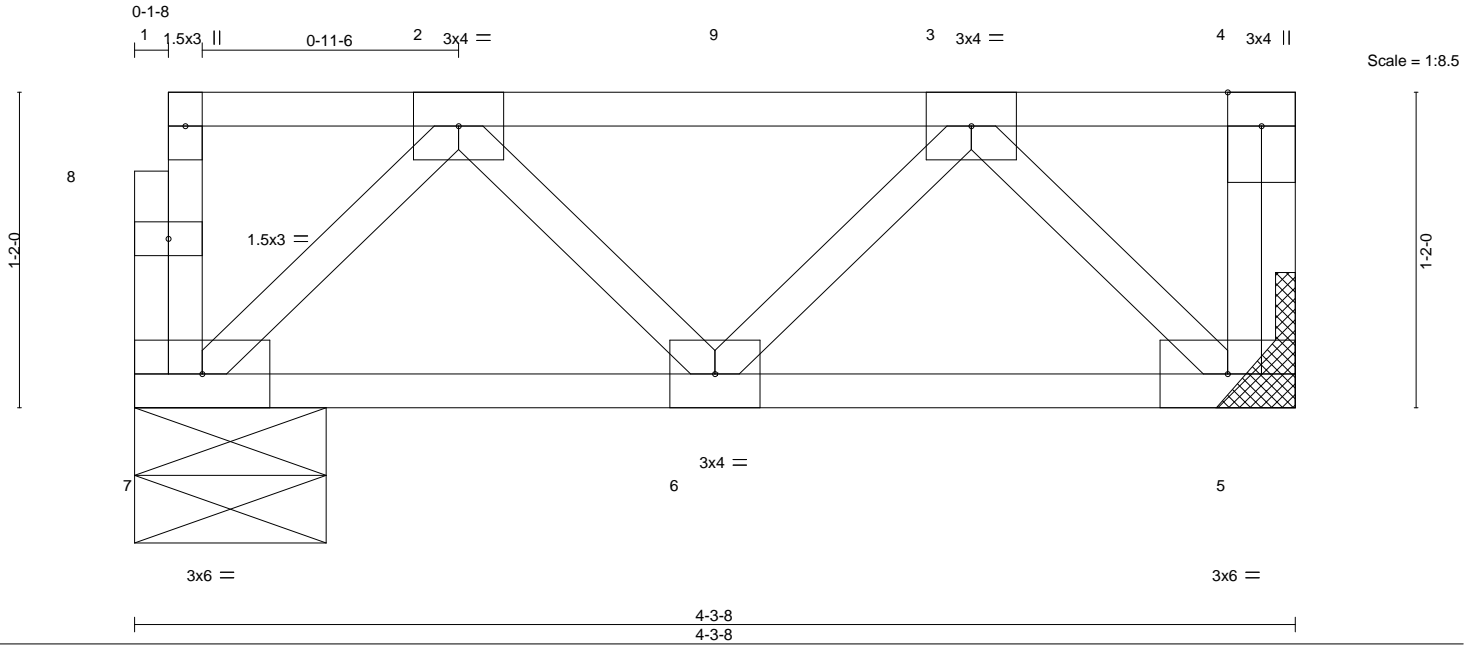
Job	Truss	Truss Type	Qty	Ply	John Dove-Aubrey Elev A Floor	150793043
MASTER_FT	F13GR	ROOF TRUSS	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 15 13:16:56 2022 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.86	Vert(LL)	-0.01	6	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.25	Vert(CT)	-0.01	6	>999		
BCLL 0.0	Lumber DOL 1.00	WB 0.25	Horz(CT)	0.00	5	n/a		
BCDL 5.0	Rep Stress Incr NO	Matrix-P					Weight: 26 lb	FT = 20%F, 11%E
	Code IRC2015/TPI2014							

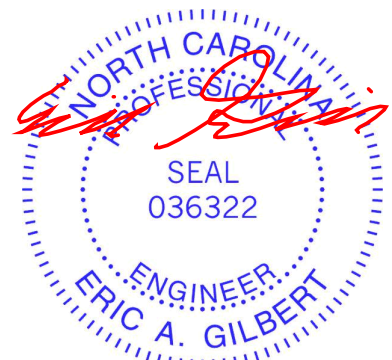
LUMBER-	BRACING-
TOP CHORD 2x4 SP SS(flat)	TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 7=0-8-8, 5=Mechanical
Max Grav 7=1380(LC 1), 5=649(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-730/0, 2-3=-741/0
BOT CHORD 6-7=0/704, 5-6=0/758
WEBS 2-7=-921/0, 3-5=-1057/0

NOTES-
1) Refer to girder(s) for truss connections.
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.
3) CAUTION, Do not erect truss backwards.
4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 818 lb down at 0-2-4, and 773 lb down at 2-3-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
5) 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 (plf)
Vert: 5-7=-10, 1-4=-100
Concentrated Loads (lb)
Vert: 1=-818(B) 9=-773(B)



March 16, 2022

Job MASTER_FT	Truss F14G	Truss Type GABLE	Qty 1	Ply 1	John Dove-Aubrey Elev A Floor 150793044
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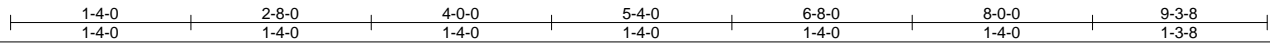
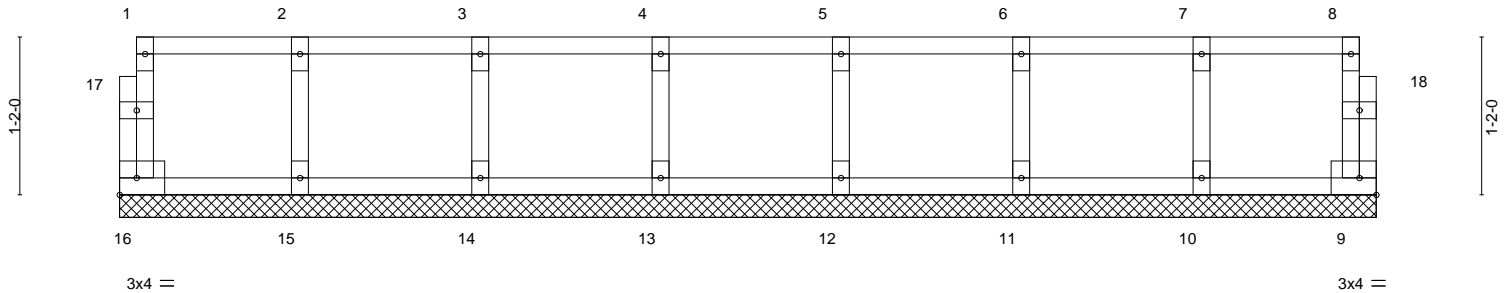
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 15 13:16:56 2022 Page 1
ID:dRVmNXyYpCMHM7S_dAPALNzJB0a-tNIEAajVPGJdq5d6g8R3uedo6GY6FjQnQ3ILB8zagnb

0'-1-8

0'-1-8

Scale = 1:17.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.08	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.01	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 9 n/a n/a		
	Code IRC2015/TPI2014			Weight: 40 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 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)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 9-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) 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.



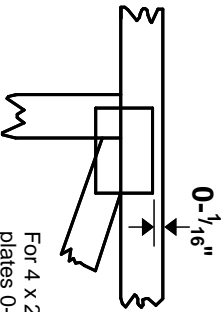
March 16, 2022

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



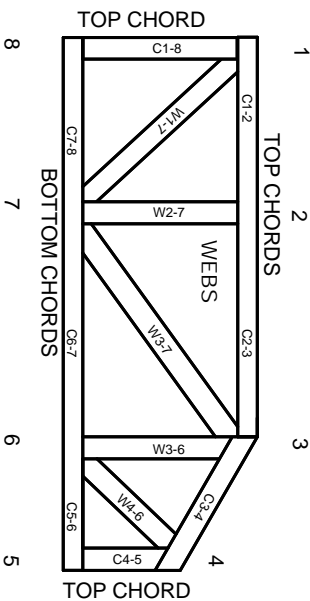
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate
BCSI: Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, 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/TP1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.