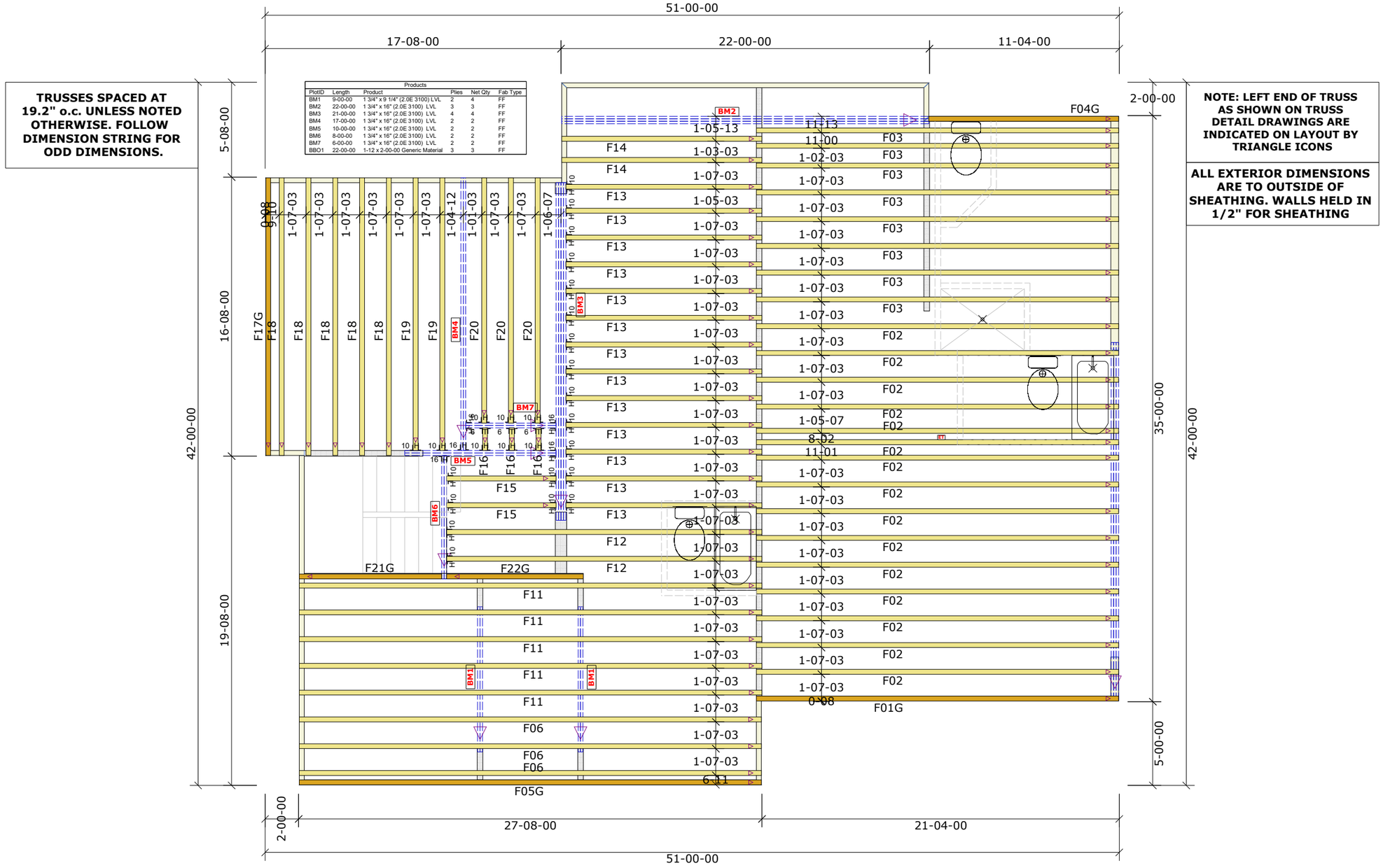
TRUSSES SPACED AT 19.2" o.c. UNLESS NOTED OTHERWISE. FOLLOW DIMENSION STRING FOR ODD DIMENSIONS.



Products						
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM1	9-00-00	1 3/4" x 9 1/4" (2.0E 3100) LVL	2	4	FF
BM2	22-00-00	1 3/4" x 16" (2.0E 3100) LVL	3	3	FF
BM3	21-00-00	1 3/4" x 16" (2.0E 3100) LVL	4	4	FF
BM4	17-00-00	1 3/4" x 16" (2.0E 3100) LVL	2	2	FF
BM5	10-00-00	1 3/4" x 16" (2.0E 3100) LVL	2	2	FF
BM6	8-00-00	1 3/4" x 16" (2.0E 3100) LVL	2	2	FF
BM7	6-00-00	1 3/4" x 16" (2.0E 3100) LVL	2	2	FF
BBO1	22-00-00	1-12 x 2-00-00 Generic Material	3	3	FF

NOTE: LEFT END OF TRUSS AS SHOWN ON TRUSS DETAIL DRAWINGS ARE INDICATED ON LAYOUT BY TRIANGLE ICONS

ALL EXTERIOR DIMENSIONS ARE TO OUTSIDE OF SHEATHING. WALLS HELD IN 1/2" FOR SHEATHING

Builders First Source
23 Red Cedar Way
Apex, NC 27523
Phone: (919) 363-4956
Fax: (919) 387-8565
http://www.bldr.com

General Notes:

- Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
- Dimensions are Feet-Inches- Sixteenths.
- Trusses are to be 24" o.c. unless noted otherwise (U.N.O.)
- Trusses are not designed to support brick U.N.O.
- Do not cut or modify trusses without first contacting Builders FirstSource.
- Immediately contact Builders FirstSource if trusses are damaged.

Connection Notes:

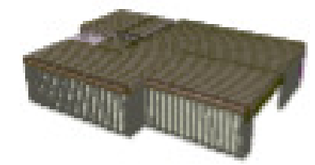
- All hangers are to be Simpson or equivalent U.N.O.
- Use Manufacturer's specifications for all hanger connections U.N.O.
- Use 10d x 1 1/2" Nails in hanger connections to single ply roof girder trusses.

Floor Notes:

- Shift truss as required to avoid plumbing traps.
- Installation Contractor and/or Field Supervisor are to verify all dimensions, trap locations, and options prior to installation

Dimension Notes:

- Drawing not to scale. Do not scale dimensions



Hanger List		All Tie Downs H2.5T Unless noted
0	THA422	
27	HHUS410	
5	HU416	
3	THA426	

Special Items List

Misc Material

Herring Homes			
Hawthorne II		Elev:	B
Griffin Pointe			
Wake County	NC	Lot:	1
Lot 1/Side Load/ Garage Right		***Appwright #***	
		Permit (3258313)	
		Code:	IRC 2015
		Loading:	
		T.C.L.L.	40
Designed By:	CFC	T.C.D.L	10
Layout:	A.SLF-L	B.C.L.L.	0
L/O Date:	08/12/2022	B.C.D.L.	5

Revision History		***Wind:***	
Rev1:	xx/xx/xx	M.P.H.	115
Rev2:	xx/xx/xx	Exposure Category	
Rev3:	xx/xx/xx	B (Wooded areas/other)	
Pick Ticket:	---	***Job No:***	---
Sales No:	---	***Acct No:***	---

Hatch Legend
Attic Room
Volume Ceiling
Stick Framing

ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: GP1-F
Herring-HaawthorneIIB;Lot1 GriffinPoiinte

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: I53629954 thru I53629969

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

North Carolina COA: C-0844

August 12,2022

Johnson, Andrew

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	Herring-HaawthorneIIB;Lot1 GriffinPoiinte
GP1-F	F01G	GABLE	1	1	I53629954
					Job Reference (optional)

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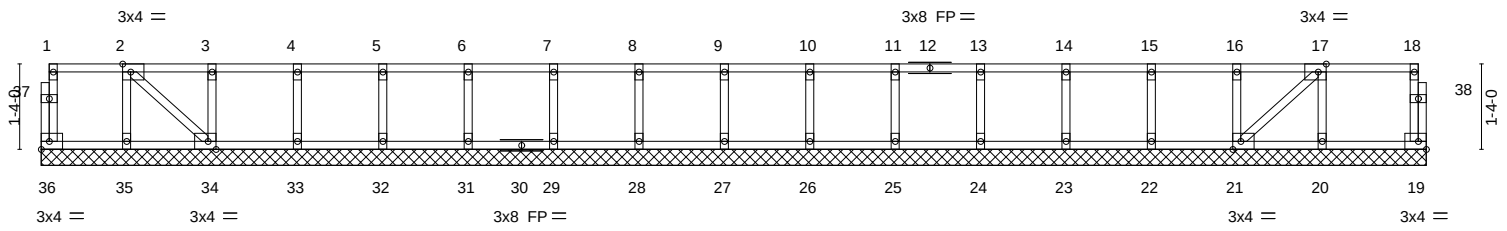

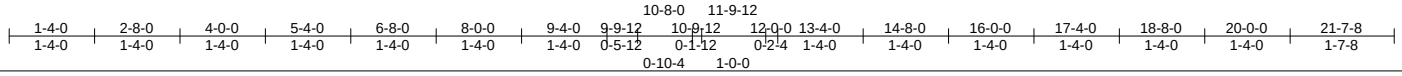

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [17:0-1-8,Edge], [21:0-1-8,Edge], [34:0-1-8,Edge]

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	21	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 99 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 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 35-36,34-35,20-21,19-20.

REACTIONS. All bearings 21-7-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 36, 19, 35, 34, 33, 32, 31, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20

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.

August 12,2022

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

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthorneIIB;Lot1 GriffinPoiinte
GP1-F	F02	FLOOR	1	1	I53629955
					Job Reference (optional)

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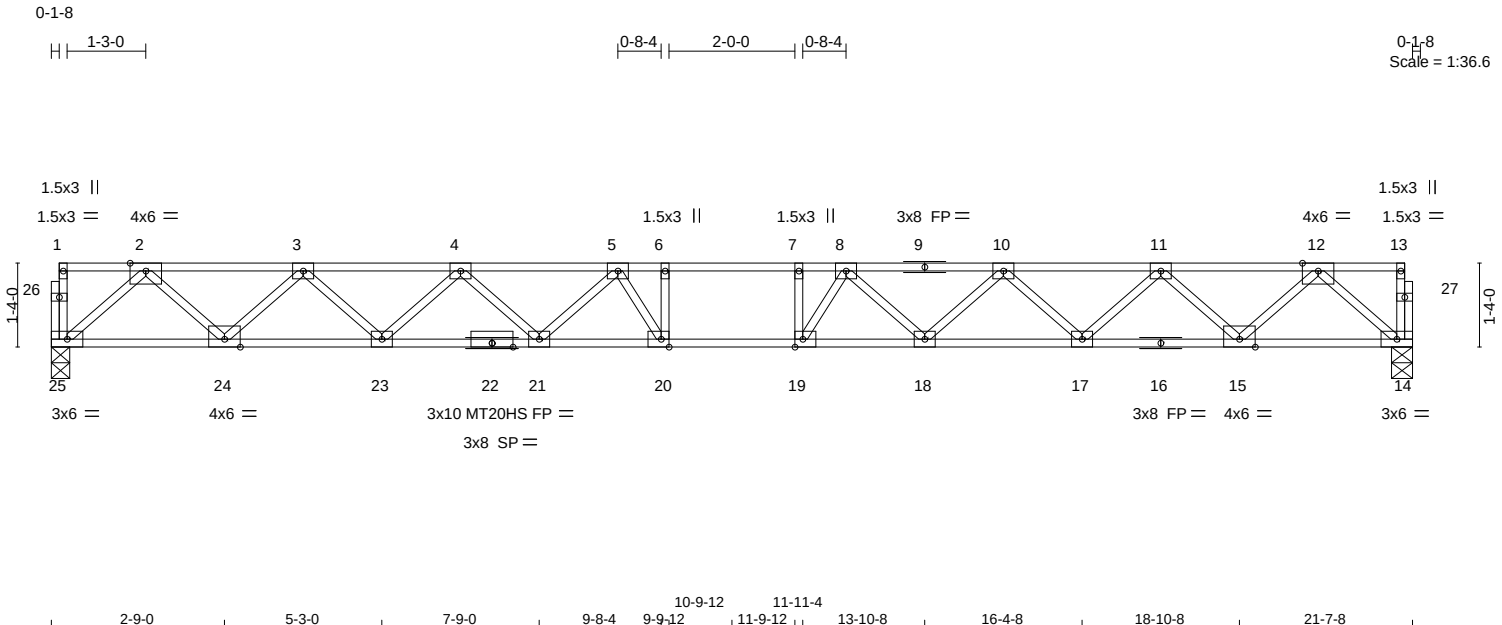

Plate Offsets (X,Y)-- [19:0-1-8,Edge], [20:0-1-8,Edge]

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	0.75	Vert(LL)	-0.39	19-20	>660	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.54	19-20	>479	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.09	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 111 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
16-22: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 21-23.

REACTIONS. (size) 25=0-3-8, 14=0-4-0
Max Grav 25=935(LC 1), 14=935(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1768/0, 3-4=-3007/0, 4-5=-3783/0, 5-6=-4121/0, 6-7=-4121/0, 7-8=-4121/0, 8-10=-3783/0, 10-11=-3007/0, 11-12=-1768/0
BOT CHORD 24-25=0/1020, 23-24=0/2493, 21-23=0/3501, 20-21=0/4046, 19-20=0/4121, 18-19=0/4046, 17-18=0/3501, 15-17=0/2493, 14-15=0/1020
WEBS 6-20=-323/103, 7-19=-324/102, 2-25=-1356/0, 2-24=0/1040, 3-24=-1008/0, 3-23=0/715, 4-23=-687/0, 4-21=0/395, 5-21=-433/0, 5-20=-214/511, 12-14=-1356/0, 12-15=0/1041, 11-15=-1008/0, 11-17=0/715, 10-17=-688/0, 10-18=0/395, 8-18=-433/0, 8-19=-214/512

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 22 = 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.

August 12,2022

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

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthorneIIB;Lot1 GriffinPoiinte
GP1-F	F03	FLOOR	1	1	I53629956
					Job Reference (optional)

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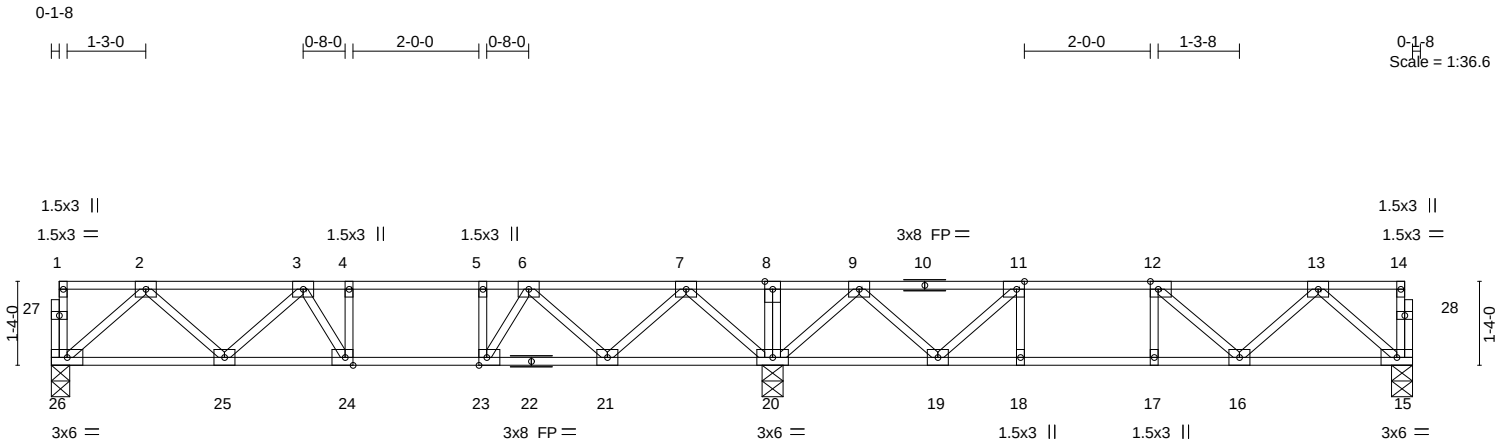

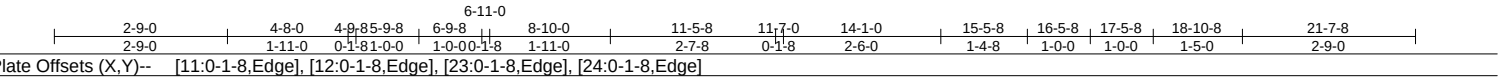

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [23:0-1-8,Edge], [24:0-1-8,Edge]

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	0.42	Vert(LL)	-0.05	24-25	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.07	24-25	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	15	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 113 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, Except: 6-0-0 oc bracing: 20-21,19-20.

REACTIONS. (size) 26=0-3-8, 20=0-4-0, 15=0-4-0
Max Grav 26=471(LC 10), 20=1039(LC 1), 15=408(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-762/0, 3-4=-1037/0, 4-5=-1037/0, 5-6=-1037/0, 6-7=-641/0, 7-8=0/559, 8-9=0/559, 9-11=-506/38, 11-12=-785/0, 12-13=-621/0
BOT CHORD 25-26=0/496, 24-25=0/999, 23-24=0/1037, 21-23=0/937, 20-21=-78/336, 18-19=0/785, 17-18=0/785, 16-17=0/785, 15-16=0/431
WEBS 5-23=-253/0, 2-26=-659/0, 2-25=0/369, 3-25=-330/0, 7-20=-771/0, 7-21=0/475, 6-21=-479/0, 6-23=0/378, 11-19=-459/0, 9-19=0/413, 9-20=-669/0, 13-15=-573/0, 13-16=0/264

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.
4) CAUTION, Do not erect truss backwards.

August 12,2022

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

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthorneIIB;Lot1 GriffinPoiinte
GP1-F	F04G	FLOOR	1	1	I53629957
					Job Reference (optional)

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0-1-8 0-1-8

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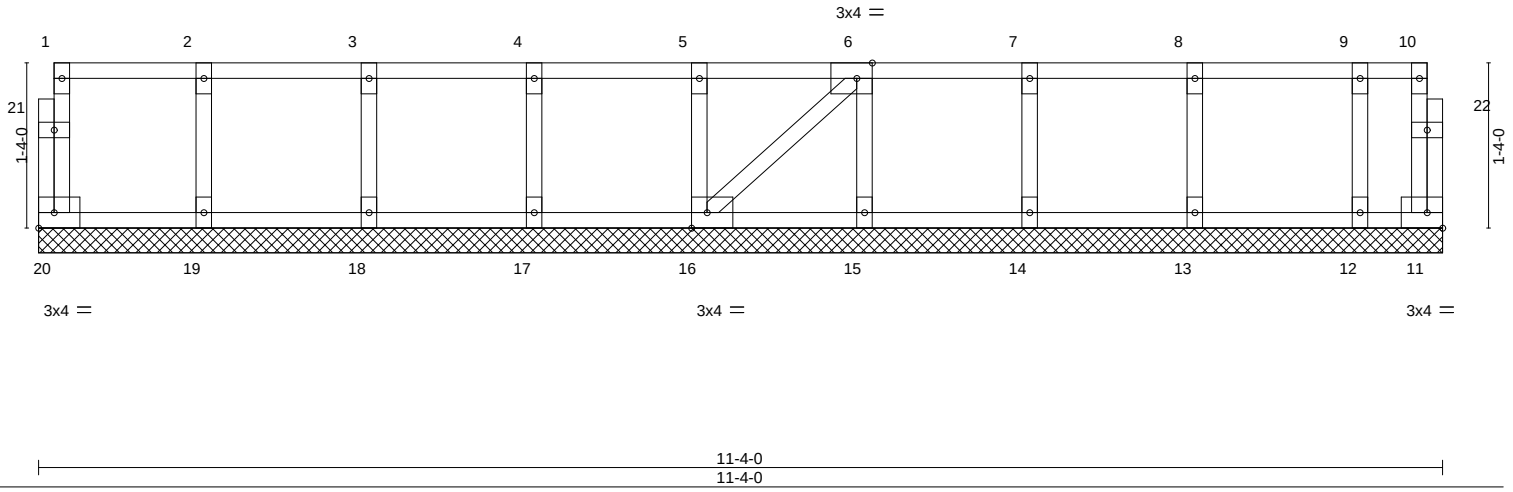


11-4-0
11-4-0

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [16:0-1-8,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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							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)

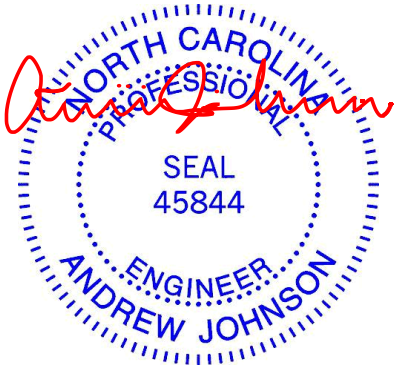
BRACING-

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 11-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 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.



August 12,2022

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

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthorneIIB;Lot1 GriffinPoiinte
GP1-F	F05G	FLOOR	1	1	I53629958
					Job Reference (optional)

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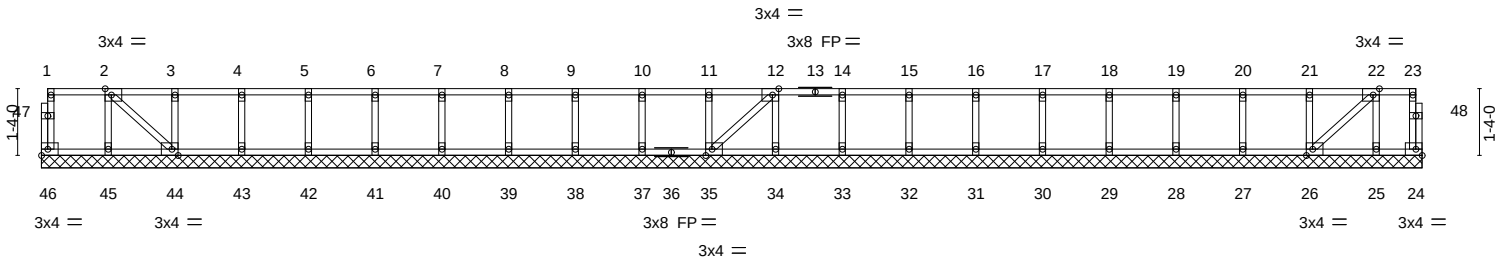

27-7-0
27-7-0

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [12:0-1-8,Edge], [22:0-1-8,Edge], [26:0-1-8,Edge], [35:0-1-8,Edge], [44:0-1-8,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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.00	26	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 127 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 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 45-46,44-45,25-26,24-25.

REACTIONS. All bearings 27-7-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 46, 24, 45, 44, 43, 42, 41, 40, 39, 38, 37, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25

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.

August 12,2022

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

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthorneIIB;Lot1 GriffinPoiinte
GP1-F	F06	FLOOR	1	1	I53629959
					Job Reference (optional)

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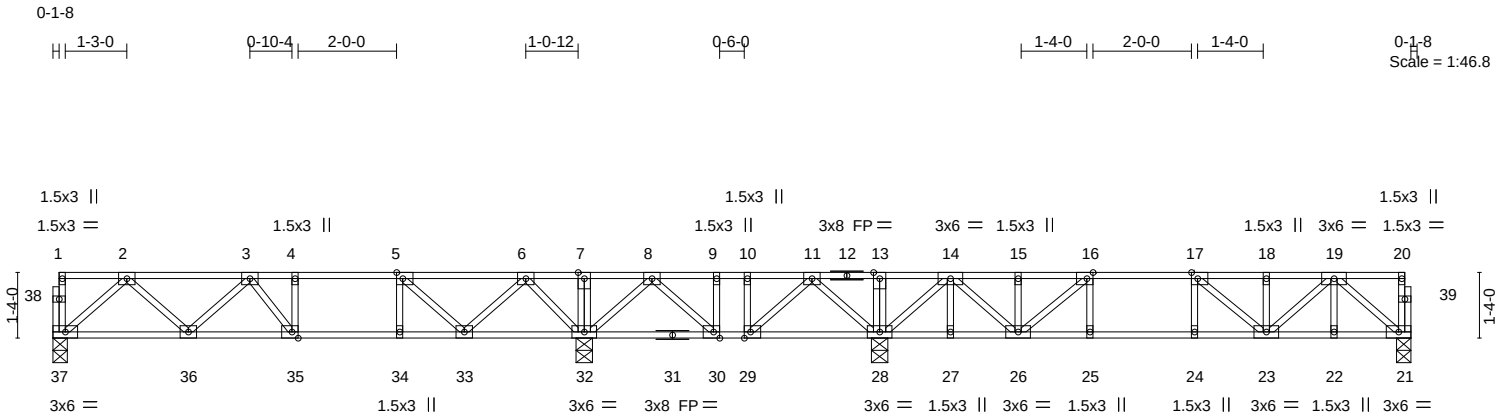

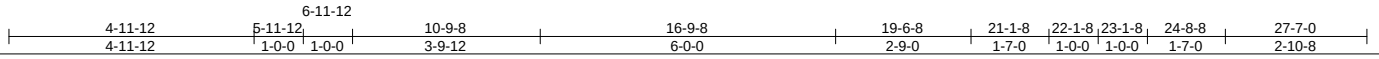

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge], [29:0-1-8,Edge], [30:0-1-8,Edge], [35:0-1-8,Edge]

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	0.40	Vert(LL)	-0.06	35-36	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.08	35-36	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	21	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 152 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 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 32=0-4-0, 28=0-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 37=439(LC 5), 32=794(LC 16), 28=850(LC 11), 21=426(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-698/0, 3-4=-883/0, 4-5=-883/0, 5-6=-538/0, 6-7=-24/404, 7-8=-24/405, 11-13=0/486, 13-14=0/486, 14-15=-552/0, 15-16=-552/0, 16-17=-844/0, 17-18=-729/0, 18-19=-729/0
BOT CHORD 36-37=0/462, 35-36=0/894, 34-35=0/883, 33-34=0/883, 28-29=-250/110, 25-26=0/844, 24-25=0/844, 23-24=0/844, 22-23=0/447, 21-22=0/447
WEBS 2-37=-613/0, 2-36=0/329, 3-36=-272/0, 5-33=-483/0, 6-33=0/438, 6-32=-627/0, 11-28=-406/0, 8-32=-346/0, 11-29=0/263, 14-28=-688/0, 14-26=0/475, 16-26=-397/0, 19-21=-581/0, 19-23=0/374

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.
4) CAUTION, Do not erect truss backwards.

August 12,2022

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

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthorneIIB;Lot1 GriffinPoiinte
GP1-F	F11	FLOOR	1	1	I53629960
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:07:34 2022 Page 1
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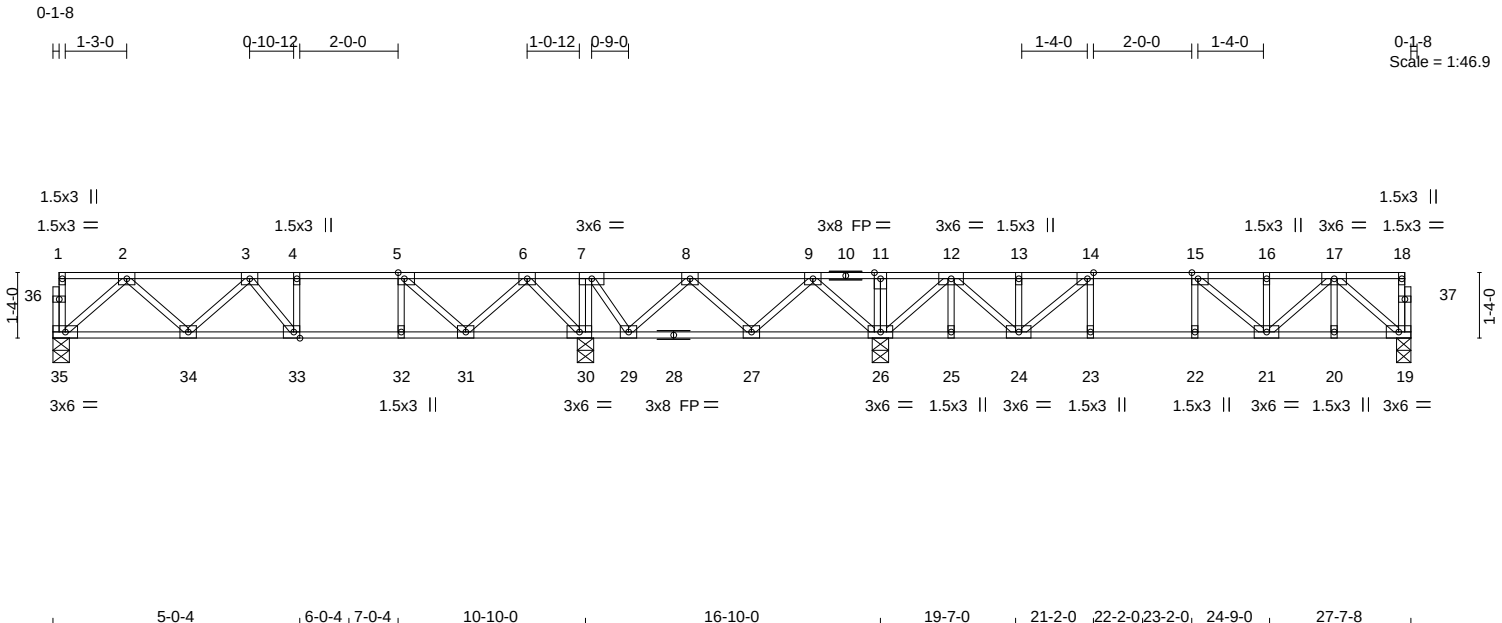

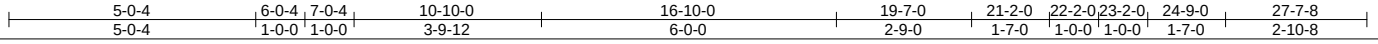

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [14:0-1-8,Edge], [15:0-1-8,Edge], [33:0-1-8,Edge]

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	0.40	Vert(LL)	-0.06	33-34	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.08	33-34	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	19	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 150 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 6-0-0 oc bracing.

REACTIONS. All bearings 0-4-0 except (jt=length) 19=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 35=443(LC 5), 30=803(LC 14), 26=870(LC 11), 19=424(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-706/0, 3-4=-898/0, 4-5=-898/0, 5-6=-553/0, 6-7=-69/401, 7-8=-131/264, 9-11=0/513, 11-12=0/513, 12-13=-544/0, 13-14=-544/0, 14-15=-839/0, 15-16=-726/0, 16-17=-726/0
BOT CHORD 34-35=0/466, 33-34=0/905, 32-33=0/898, 31-32=0/898, 30-31=-10/278, 29-30=-401/69, 26-27=-251/136, 23-24=0/839, 22-23=0/839, 21-22=0/839, 20-21=0/446, 19-20=0/446
WEBS 7-30=-337/0, 2-35=-618/0, 2-34=0/334, 3-34=-277/0, 5-31=-488/0, 6-31=0/443, 6-30=-626/0, 9-26=-457/0, 8-29=-303/0, 7-29=0/265, 12-26=-698/0, 12-24=0/476, 14-24=-402/0, 17-19=-579/0, 17-21=0/373

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.
4) CAUTION, Do not erect truss backwards.

August 12,2022

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

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthorneIIB;Lot1 GriffinPoiinte
GP1-F	F12	FLOOR	1	1	I53629961
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:07:35 2022 Page 1
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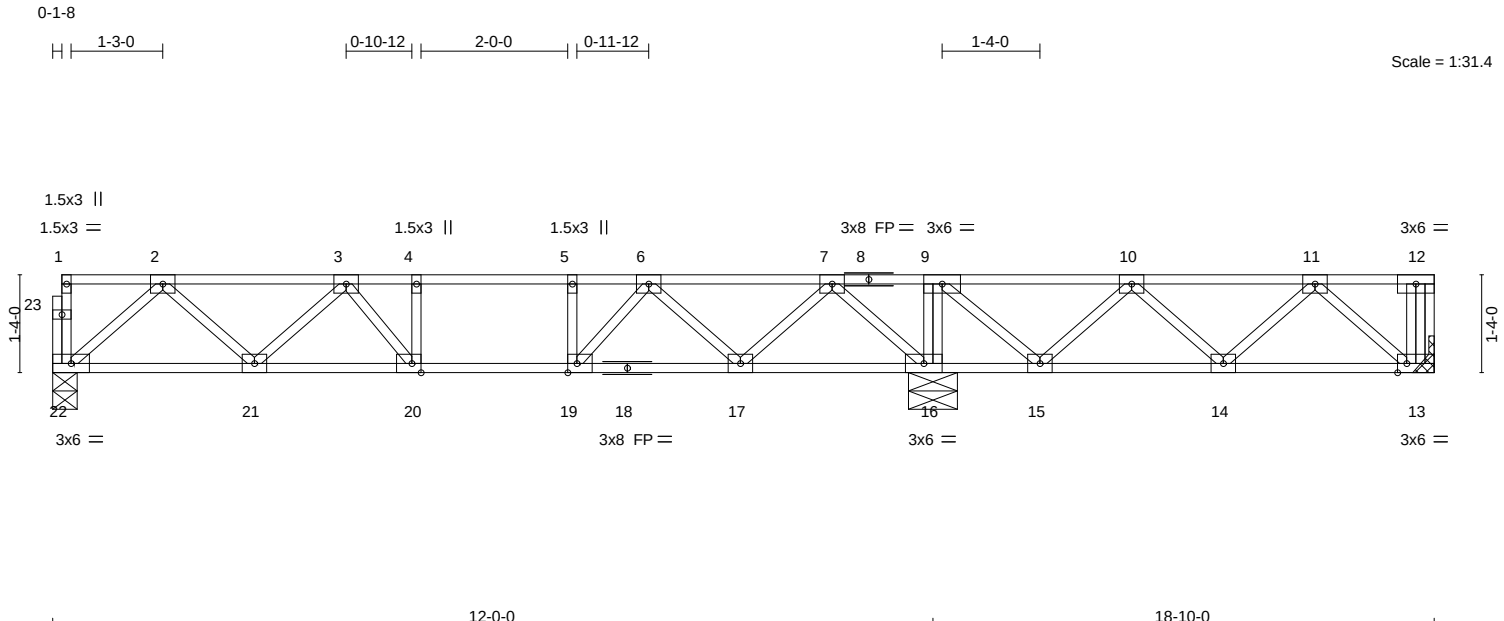

Plate Offsets (X,Y)-- [13:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge]

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	0.42	Vert(LL)	-0.06	20-21	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.08	20-21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	13	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 101 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 6-0-0 oc bracing.

REACTIONS. (size) 22=0-4-0, 13=Mechanical, 16=0-8-0
Max Uplift 13=-15(LC 3)
Max Grav 22=464(LC 3), 13=254(LC 7), 16=980(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-751/0, 3-4=-998/0, 4-5=-998/0, 5-6=-998/0, 6-7=-448/0, 7-9=0/650, 9-10=-86/334, 10-11=-287/104
BOT CHORD 21-22=0/490, 20-21=0/975, 19-20=0/998, 17-19=0/801, 15-16=-650/0, 14-15=-197/302
WEBS 9-16=-467/0, 2-22=-650/0, 2-21=0/363, 3-21=-312/0, 7-16=-794/0, 7-17=0/509, 6-17=-506/0, 6-19=0/376, 11-13=-323/48, 10-15=-423/0, 9-15=0/476

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 13.
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.

August 12,2022

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthorneIIB;Lot1 GriffinPoiinte
GP1-F	F13	FLOOR	1	1	I53629962
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:07:36 2022 Page 1
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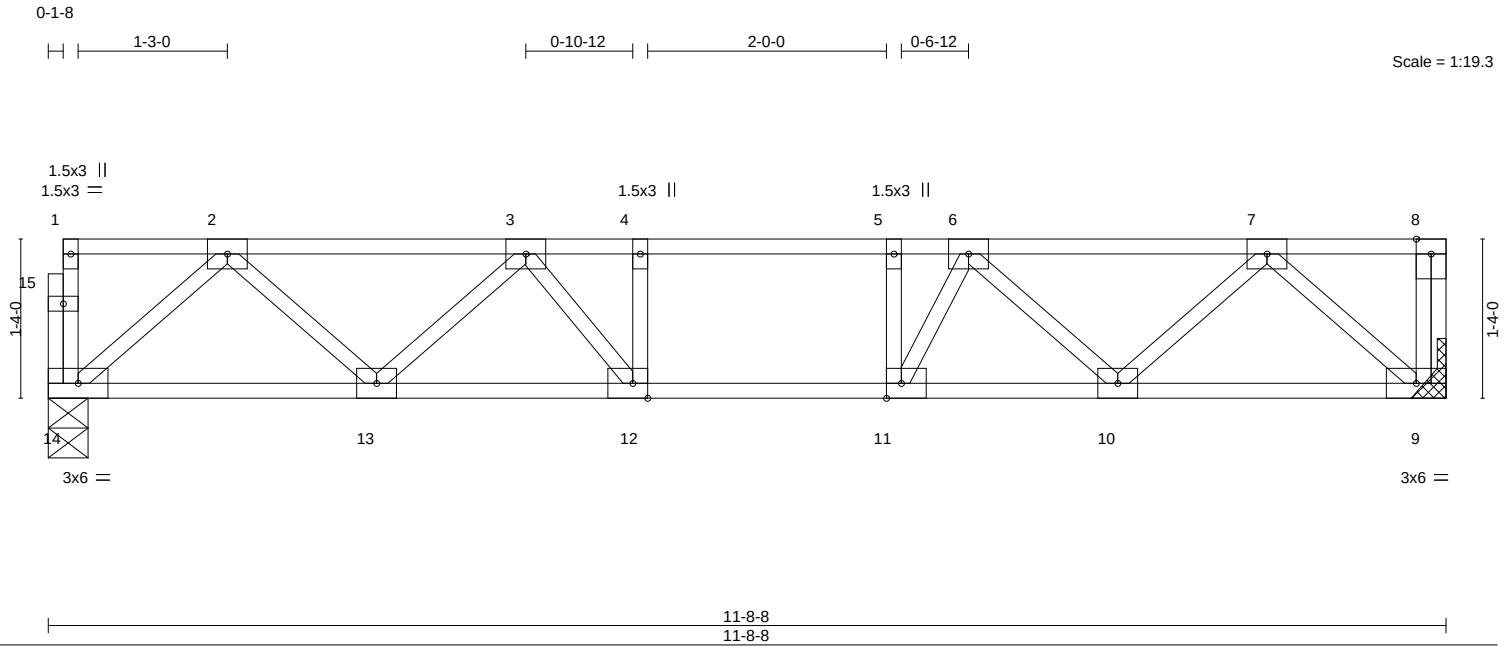

Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

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	0.37	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.02	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=0-4-0, 9=Mechanical
Max Grav 14=499(LC 1), 9=504(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-822/0, 3-4=-1168/0, 4-5=-1168/0, 5-6=-1168/0, 6-7=-820/0
BOT CHORD 13-14=0/529, 12-13=0/1089, 11-12=0/1168, 10-11=0/1095, 9-10=0/528
WEBS 2-14=-702/0, 2-13=0/408, 3-13=-372/0, 3-12=-14/290, 7-9=-703/0, 7-10=0/406, 6-10=-382/0, 6-11=-19/346

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
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.

August 12,2022

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A MiTek Affiliate
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthorneIIB;Lot1 GriffinPoiinte
GP1-F	F16	FLOOR	1	1	I53629963
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:07:36 2022 Page 1
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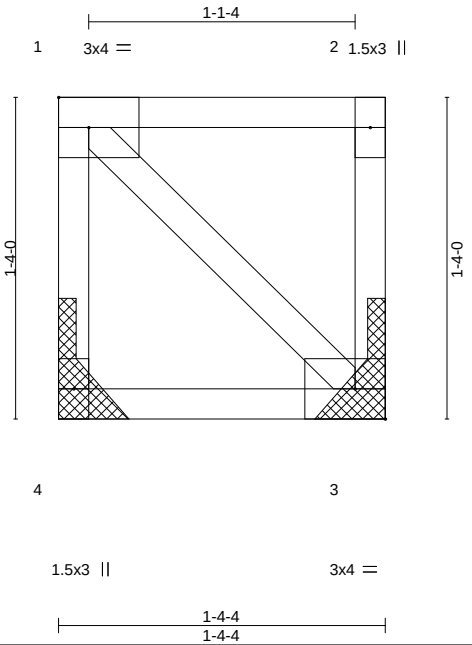

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	0.00	4	****	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	-0.00	4	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-P							Weight: 10 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 1-4-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Grav 4=54(LC 1), 3=54(LC 1)

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

NOTES-
1) Refer to girder(s) for truss to 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.

August 12,2022

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthorneIIB;Lot1 GriffinPoiinte
GP1-F	F17G	FLOOR	1	1	I53629964

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:07:37 2022 Page 1
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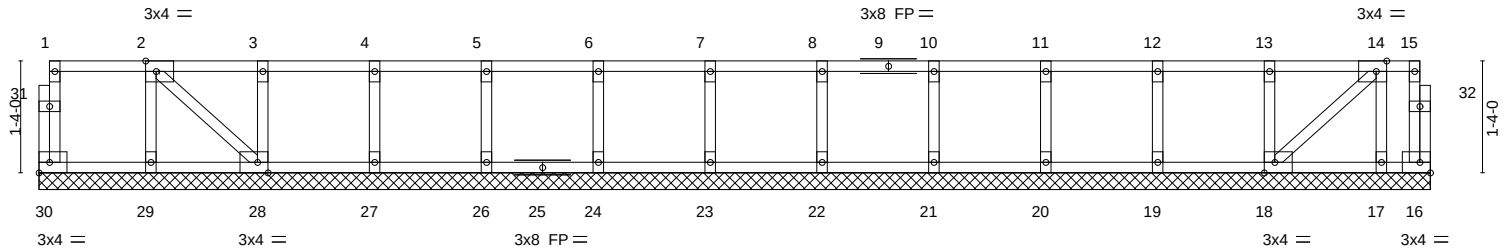

16-7-0
16-7-0

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [14:0-1-8,Edge], [18:0-1-8,Edge], [28:0-1-8,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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	-0.00	16	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 79 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 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 29-30,28-29.

REACTIONS. All bearings 16-7-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 16
Max Grav All reactions 250 lb or less at joint(s) 30, 29, 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

August 12,2022

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthorneIIB;Lot1 GriffinPoiinte
GP1-F	F18	FLOOR	1	1	I53629965
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:07:38 2022 Page 1
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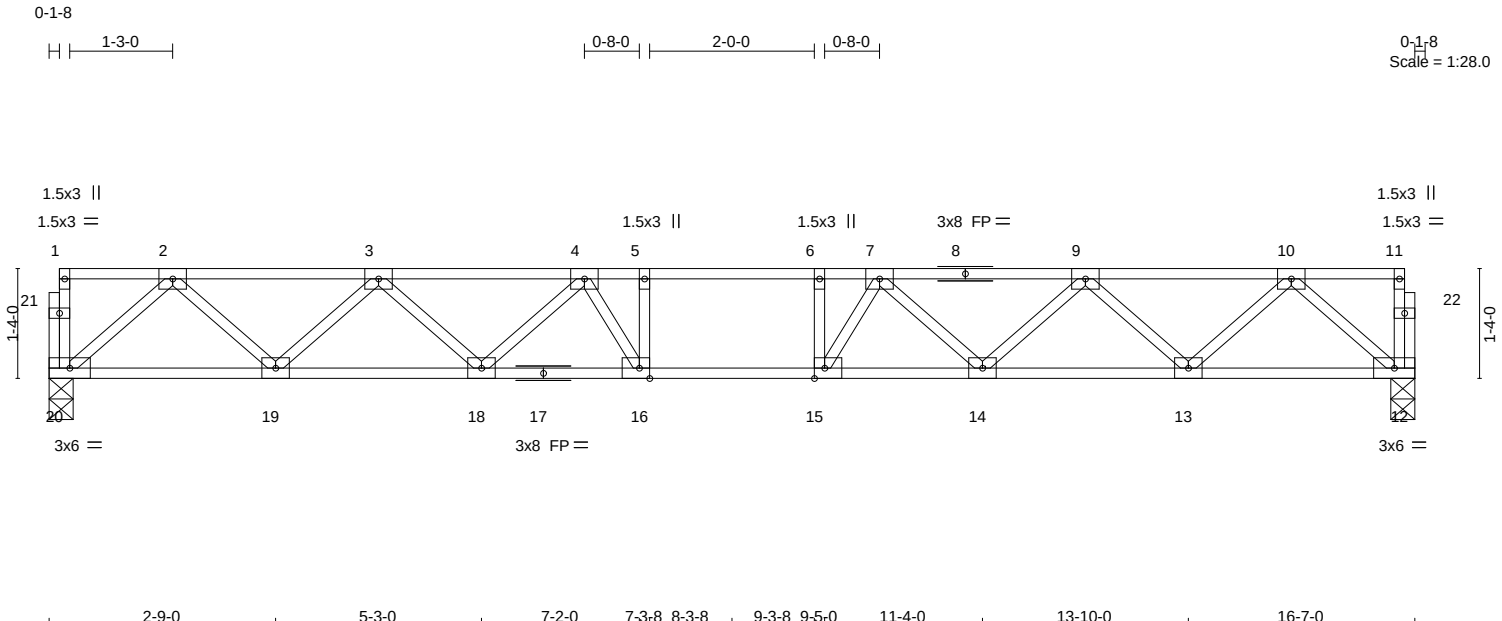

Plate Offsets (X,Y)-- [15:0-1-8,Edge], [16:0-1-8,Edge]

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	0.49	Vert(LL)	-0.14	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.20	15-16	>984	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	12	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 86 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) 20=0-3-8, 12=0-3-8
Max Grav 20=713(LC 1), 12=713(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1289/0, 3-4=-2065/0, 4-5=-2398/0, 5-6=-2398/0, 6-7=-2398/0, 7-9=-2065/0, 9-10=-1289/0
BOT CHORD 19-20=0/768, 18-19=0/1787, 16-18=0/2324, 15-16=0/2398, 14-15=0/2324, 13-14=0/1787, 12-13=0/768
WEBS 5-16=-276/53, 6-15=-276/53, 2-20=-1020/0, 2-19=0/726, 3-19=-693/0, 3-18=0/385, 4-18=-361/0, 4-16=-116/415, 10-12=-1020/0, 10-13=0/726, 9-13=-693/0, 9-14=0/385, 7-14=-361/0, 7-15=-116/415

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.

August 12,2022

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

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthorneIIB;Lot1 GriffinPoiinte
GP1-F	F19	FLOOR	2	1	I53629966
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:07:39 2022 Page 1
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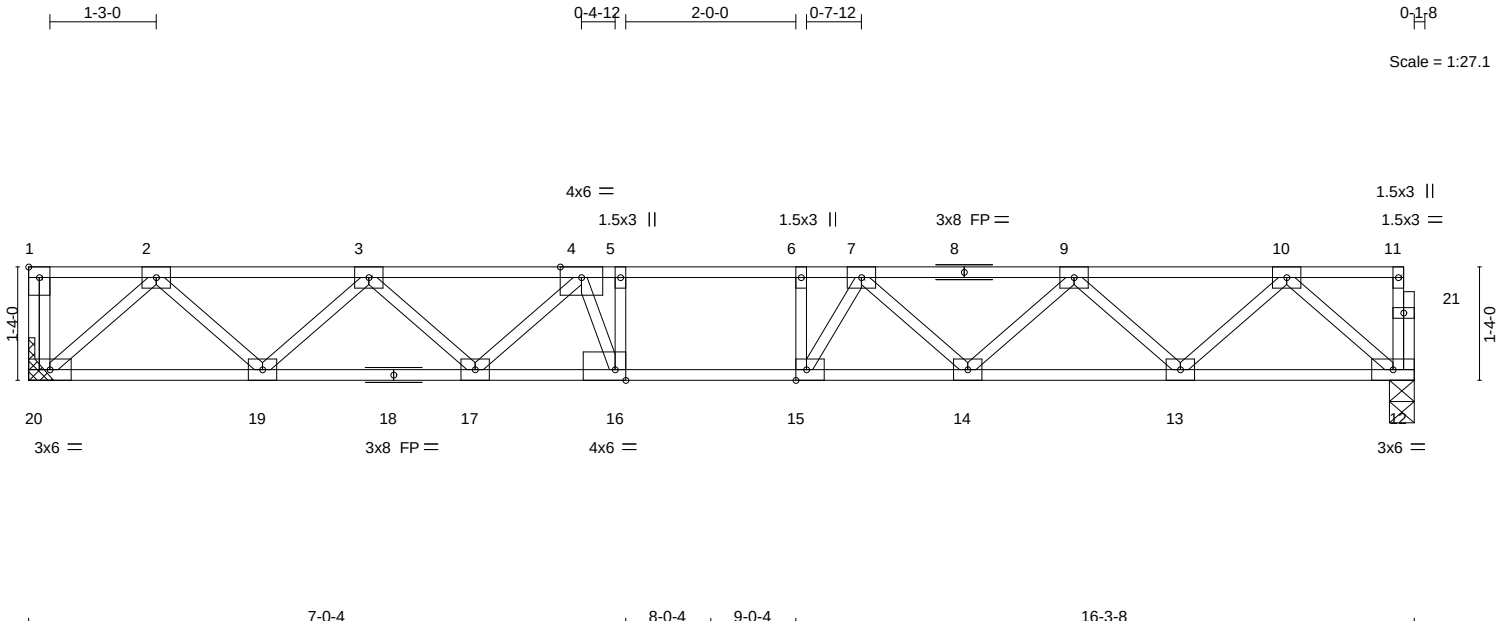


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [15:0-1-8,Edge], [16:0-1-8,Edge]

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	0.50	Vert(LL)	-0.14	15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.19	15-16	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.04	12	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 86 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) 20=Mechanical, 12=0-3-8
Max Grav 20=705(LC 1), 12=700(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1262/0, 3-4=-2010/0, 4-5=-2312/0, 5-6=-2312/0, 6-7=-2312/0, 7-9=-2011/0, 9-10=-1261/0
BOT CHORD 19-20=0/754, 17-19=0/1746, 16-17=0/2262, 15-16=0/2312, 14-15=0/2256, 13-14=0/1747, 12-13=0/753
WEBS 5-16=-358/105, 6-15=-262/64, 2-20=-1004/0, 2-19=0/707, 3-19=-673/0, 3-17=0/368, 4-17=-369/0, 4-16=-161/471, 10-12=-1000/0, 10-13=0/707, 9-13=-675/0, 9-14=0/368, 7-14=-341/0, 7-15=-131/388

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
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.

August 12,2022

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

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthorneIIB;Lot1 GriffinPoiinte
GP1-F	F20	FLOOR	1	1	I53629967
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:07:40 2022 Page 1
ID:fiBMMmjQRE9YSpott_wRX_zcieS-nT18x2hZ6RdV9AUEVmtYXVjGJKg6mNRzZT?Bw_yogq1

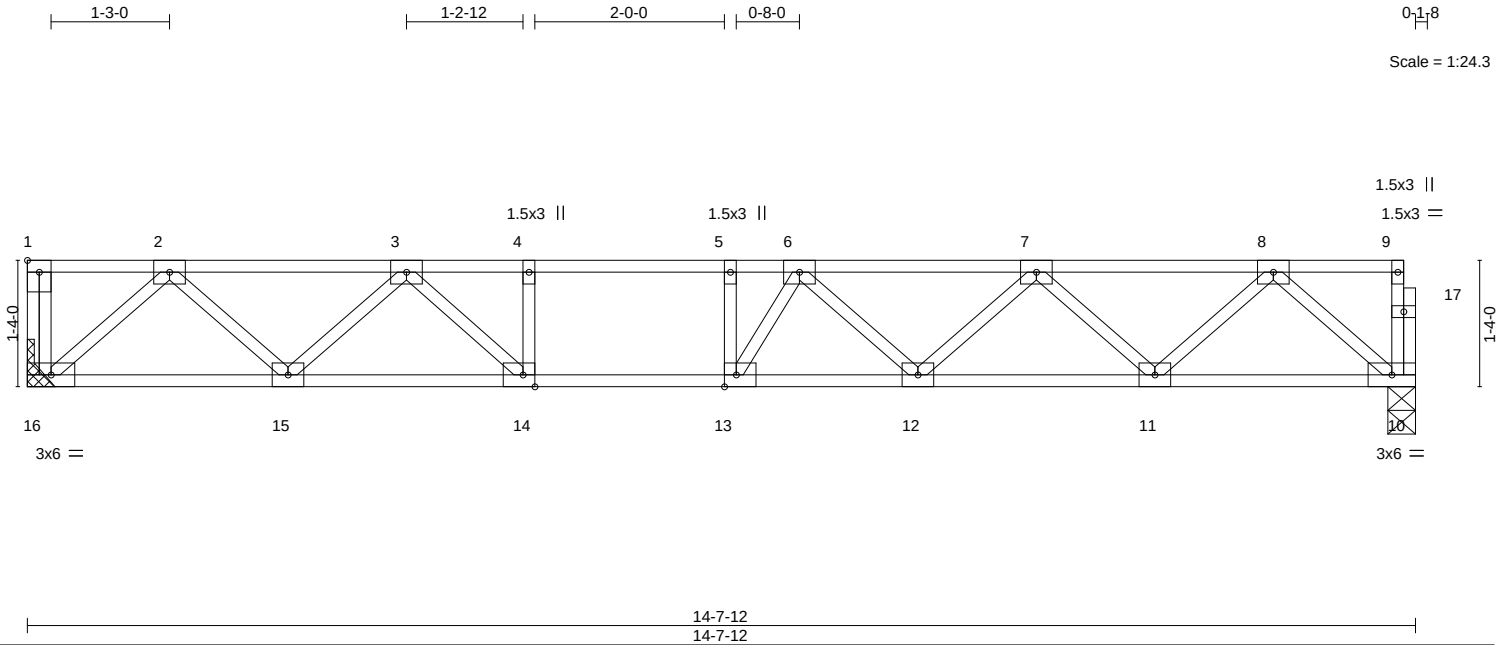


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [13:0-1-8,Edge], [14:0-1-8,Edge]

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	0.69	Vert(LL)	-0.14	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.19	12-13	>917	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 77 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) 16=Mechanical, 10=0-3-8
Max Grav 16=633(LC 1), 10=628(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1091/0, 3-4=-1820/0, 4-5=-1820/0, 5-6=-1820/0, 6-7=-1714/0, 7-8=-1103/0
BOT CHORD 15-16=0/675, 14-15=0/1505, 13-14=0/1820, 12-13=0/1865, 11-12=0/1517, 10-11=0/671
WEBS 4-14=-275/0, 2-16=-898/0, 2-15=0/579, 3-15=-575/0, 3-14=0/554, 8-10=-891/0, 8-11=0/601, 7-11=-575/0, 7-12=0/274

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
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.

August 12,2022

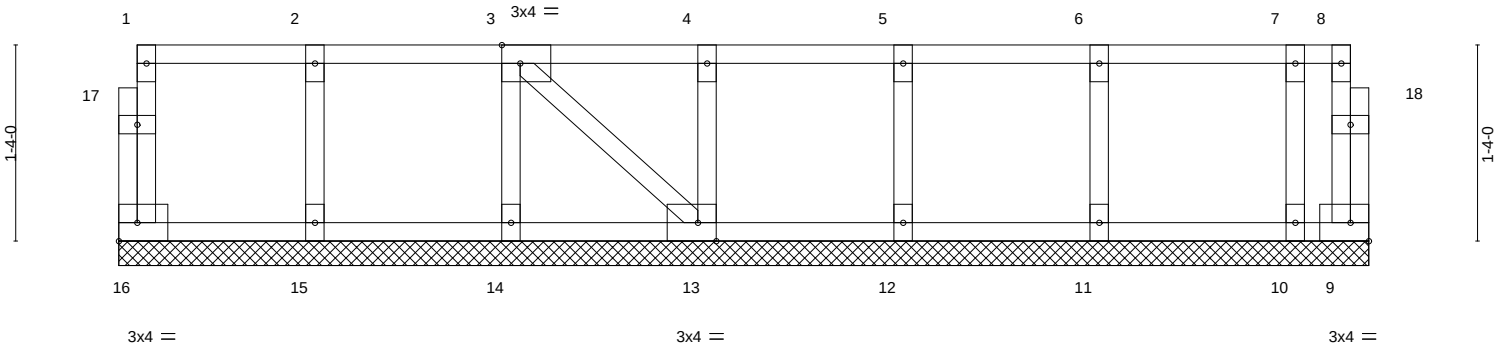
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HaawthorneIIB;Lot1 GriffinPoiinte
GP1-F	F21G	GABLE	1	1	I53629968
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:07:40 2022 Page 1
ID:fiBMMmjQRE9YSpott_wRX_zcieS-nT18x2hZ6RdV9AUEVmtYXVjP_KsomRWzZT?Bw_yogq1

0-1-8 0-1-8

Scale = 1:15.7



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	8-6-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-6-0

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [13:0-1-8,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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 43 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)

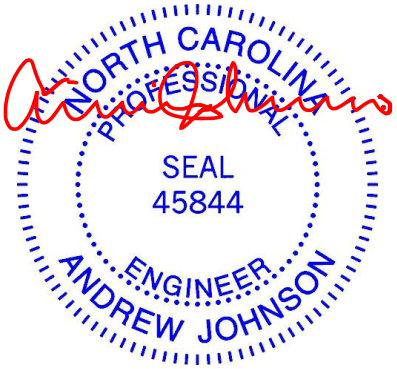
BRACING-

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

REACTIONS. All bearings 8-6-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 9
Max Grav All reactions 250 lb or less at joint(s) 16, 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



August 12,2022

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

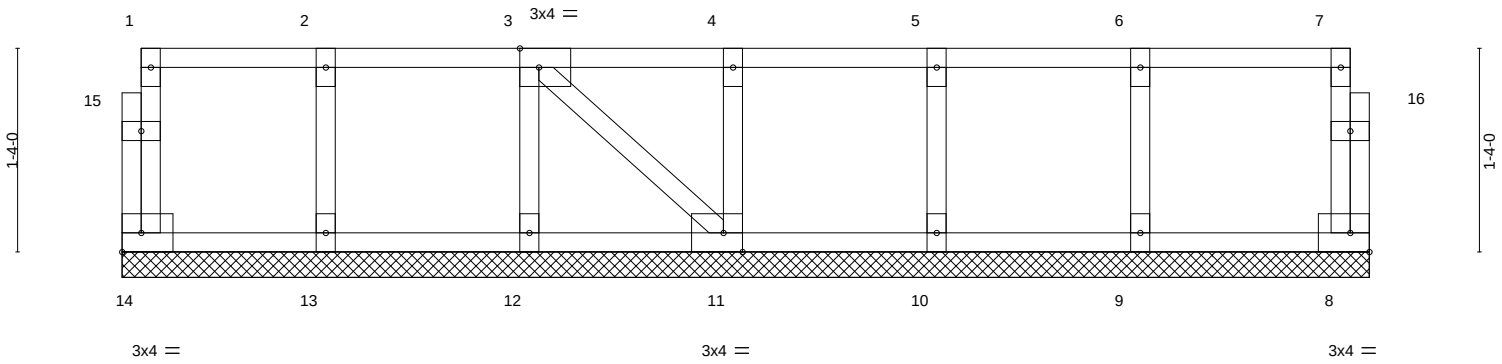
Job	Truss	Truss Type	Qty	Ply	Herring-HaawthorneIIB;Lot1 GriffinPoiinte
GP1-F	F22G	GABLE	1	1	I53629969

Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Jul 18 2022 MiTek Industries, Inc. Fri Aug 12 06:07:41 2022 Page 1
ID:fiBMMmjQRE9YSpott_wRX_zcieS-FfaW8OiBtklMnK3R3UPn3jGaZkC0Vuk6o7kkTQyogq0

0-1-8 0-1-8

Scale = 1:15.1



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-2-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-6-0

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [11:0-1-8,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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 40 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)

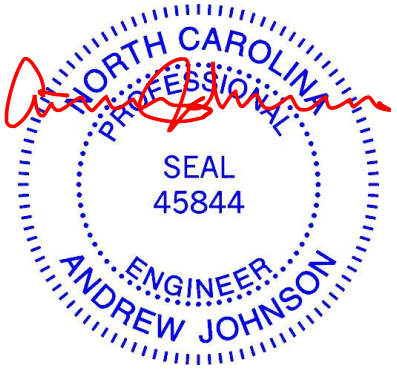
BRACING-

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 8-2-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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.

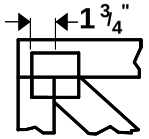


August 12,2022

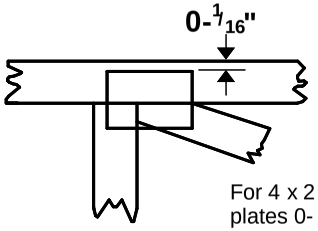
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

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.

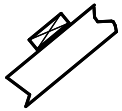
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

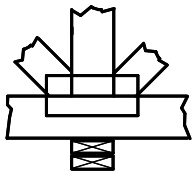
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

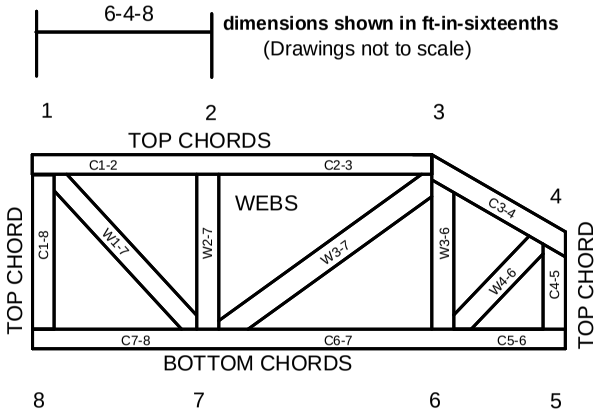


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.

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

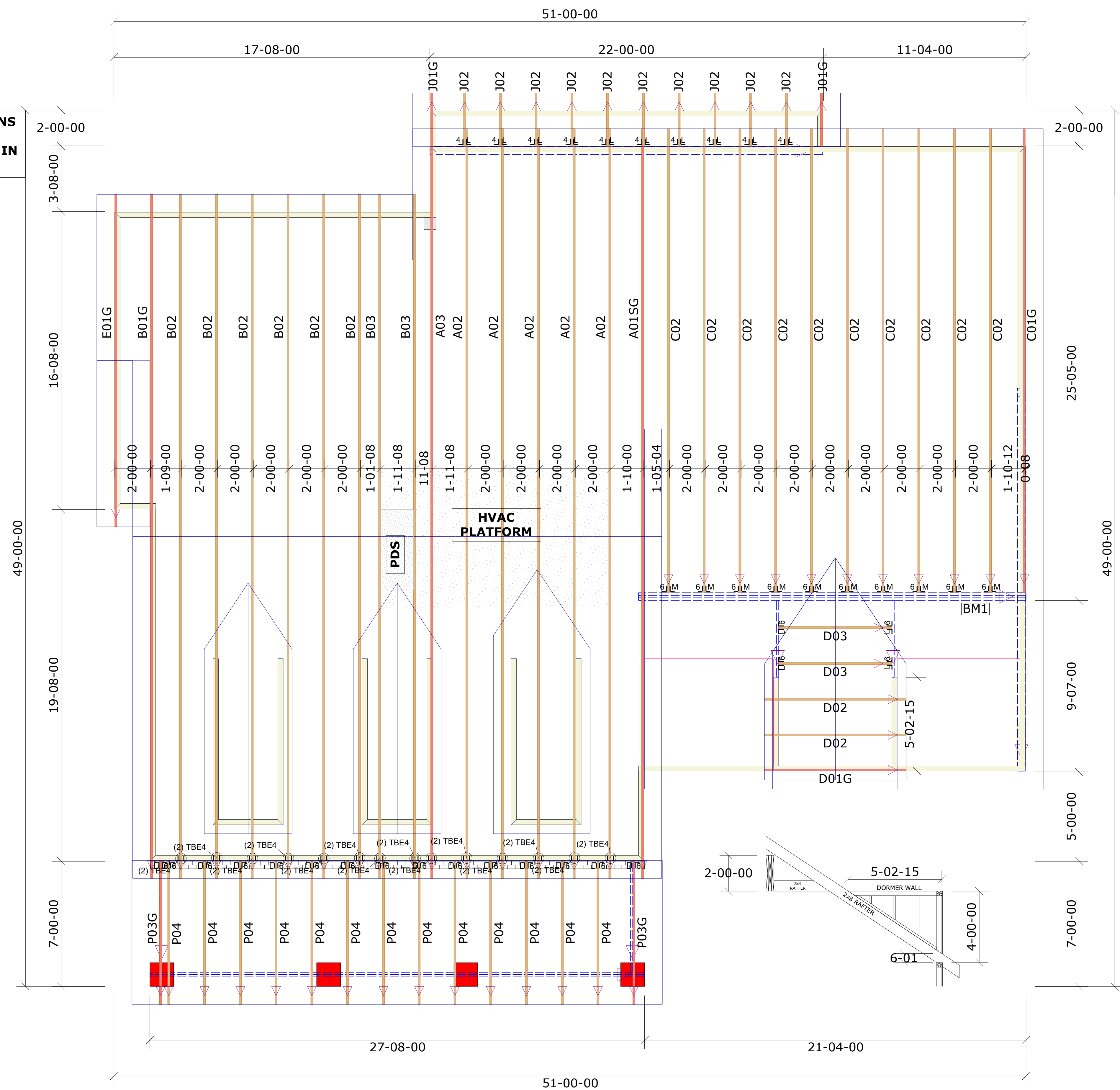
General Safety Notes

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/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.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

ALL EXTERIOR DIMENSIONS ARE TO OUTSIDE OF SHEATHING. WALLS HELD IN 1/2" FOR SHEATHING

NOTE: LEFT END OF TRUSS AS SHOWN ON TRUSS DETAIL DRAWINGS ARE INDICATED ON LAYOUT BY TRIANGLE ICONS



Builders First Source
23 Red Cedar Way
Apex, NC 27523
Phone: (919) 363-4956
Fax: (919) 387-8565
http://www.bldr.com

General Notes:

- Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
- Dimensions are Feet-Inches- Sixteenths.
- Trusses are to be 24" o.c. unless noted otherwise (U.N.O.)
- Trusses are not designed to support brick U.N.O.
- Do not cut or modify trusses without first contacting Builders FirstSource.
- Immediately contact Builders FirstSource if trusses are damaged.

Connection Notes:

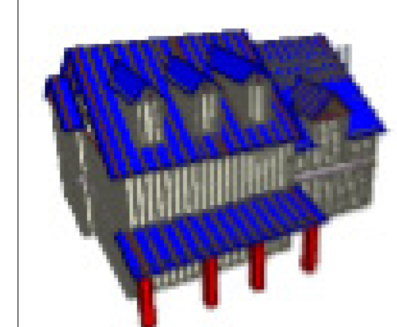
- All hangers are to be Simpson or equivalent U.N.O.
- Use Manufacturer's specifications for all hanger connections U.N.O.
- Use 10d x 1 1/2" Nails in hanger connections to single ply roof girder trusses.

Floor Notes:

- Shift truss as required to avoid plumbing traps.
- Installation Contractor and/or Field Supervisor are to verify all dimensions, trap locations, and options prior to installation

Dimension Notes:

- Drawing not to scale. Do not scale dimensions



Hanger List		
10	LUS24	L L4
19	LUS26	L L6
10	HTU26	M L6
28	TBE4	| |

All Tie Downs H2.5T Unless noted

Special Items List

Misc Material

Jordan Homes			
Hawthorne II		Elev:	B
Griffin Pointe			
Wake	NC	Lot:	1
Lot 1/Side Load/ Garage Right		***Appwright #***	
		Permit (3258318)	
		Code:	IRC 2015
		Loading:	
		T.C.L.L.	20
Designed By:	CFC	T.C.D.L	10
Layout:	B.SL-R	B.C.L.L.	0
L/O Date:	08/12/2022	B.C.D.L.	10
Revision History		***Wind:***	
Rev1:	xx/xx/xx	M.P.H.	115
Rev2:	xx/xx/xx	Exposure Category	
Rev3:	xx/xx/xx	B (Wooded areas/other)	
Pick Ticket:	---	***Job No:***	---
Sales No:	---	***Acct No:***	---

Hatch Legend
Attic Room
Volume Ceiling
Stick Framing

ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: GP1-R
Herring-HawthorneIIB;Lot1 GriffinPointe

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: I53635381 thru I53635396

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

North Carolina COA: C-0844

August 14,2022

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	Herring-HawthorneIIB;Lot1 GriffinPointe	I53635381
GP1-R	A01SG	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523 — 8.530 s May 26 2022 MiTek Industries, Inc. Fri Aug 12 12:49:26 2022 Page 1

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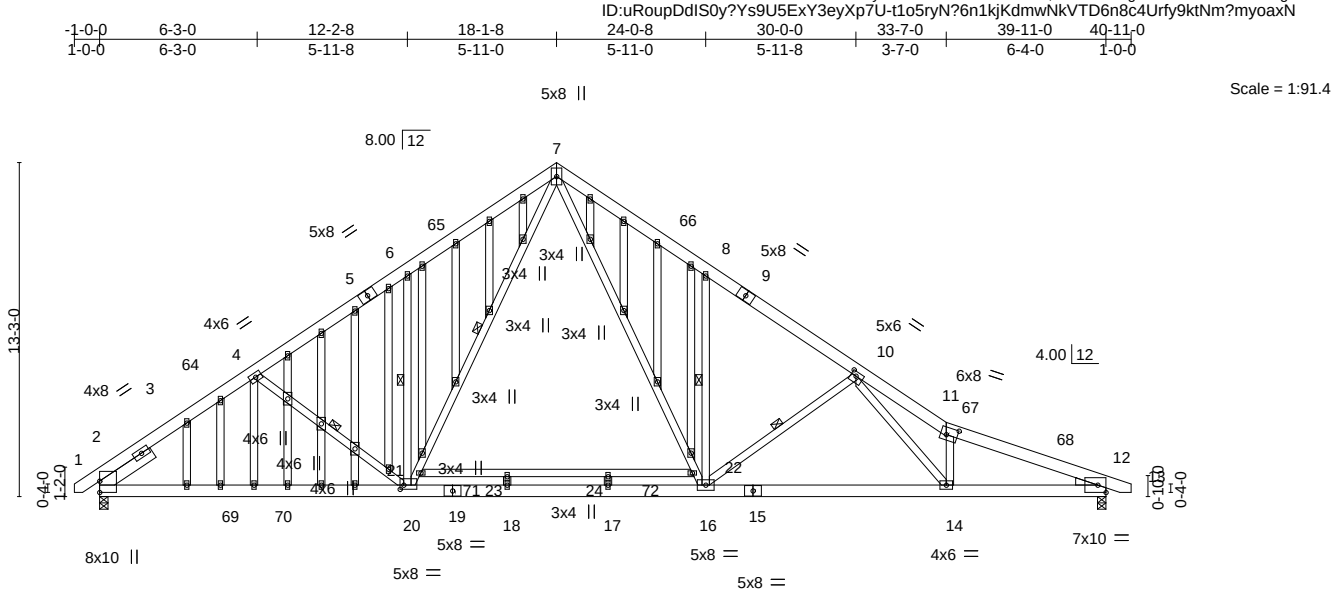

Plate Offsets (X,Y)-- [10:0-2-7,0-2-0], [11:0-5-4,0-3-8], [20:0-1-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.32	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.54	17-18	>879	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.09	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.12	14-16	>999	240	Weight: 443 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-5: 2x6 SP DSS
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.3 *Except*
7-20,7-16: 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3
SLIDER Left 2x6 SP No.2 2-5-12

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-20, 6-20, 7-20, 8-16, 10-16

REACTIONS. (size) 2=0-4-0 (req. 0-4-7), 12=0-4-0
Max Horz 2=-256(LC 10)
Max Uplift 2=-127(LC 12)
Max Grav 2=3744(LC 1), 12=2065(LC 1)

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

TOP CHORD 2-3=-1414/0, 3-64=-5268/443, 4-64=-5257/446, 4-5=-4022/311, 5-6=-3317/269, 6-65=-3674/394, 7-65=-3627/429, 7-66=-3056/346, 8-66=-3146/311, 8-9=-3006/228, 9-10=-3158/206, 10-11=-5264/262, 11-67=-4556/180, 67-68=-4628/178, 12-68=-4647/165

BOT CHORD 2-69=-275/4186, 69-70=-275/4186, 20-70=-275/4186, 19-20=0/1983, 18-19=0/1983, 17-18=0/1983, 16-17=0/1983, 15-16=-95/3356, 14-15=-95/3356, 12-14=-109/4323

WEBS 4-20=-1459/257, 6-20=-1026/239, 20-21=-276/2459, 7-21=-273/2457, 7-22=-101/1491, 16-22=-104/1497, 8-16=-368/160, 10-16=-1025/121, 11-14=-1461/123, 10-14=-37/1753

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-1 to 2-1-15, Interior(1) 2-1-15 to 18-1-8, Exterior(2) 18-1-8 to 22-4-7, Interior(1) 22-4-7 to 40-8-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 1-4-0 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, with BCDL = 10.0psf.
8) WARNING: Required bearing size at joint(s) 2 greater than input bearing size.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 2.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

August 14,2022

Continued on page 2

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

NOTES-

11) N/A
12) 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)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-64=-60, 6-7=-60, 7-11=-60, 11-13=-60, 57-61=-20
   Trapezoidal Loads (plf)
   Vert: 64=-368(F=-308)-to-6=-245(F=-185)
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-64=-50, 6-7=-50, 7-11=-50, 11-13=-50, 57-69=-20, 69-70=-50, 61-70=-20, 71-72=-30
   Trapezoidal Loads (plf)
   Vert: 64=-319(F=-269)-to-6=-212(F=-162)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-64=-20, 6-7=-20, 7-11=-20, 11-13=-20, 57-61=-40, 71-72=-40
   Trapezoidal Loads (plf)
   Vert: 64=-251(F=-231)-to-6=-159(F=-139)
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=32, 2-64=17, 6-7=12, 7-66=17, 11-66=12, 11-12=12, 12-13=8, 57-61=-12
   Horz: 1-2=-44, 2-64=-29, 7-64=-24, 7-66=29, 11-66=24, 11-12=24, 12-13=20
   Trapezoidal Loads (plf)
   Vert: 64=32(F=20)-to-6=24(F=12)
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=8, 2-64=12, 6-65=12, 7-65=17, 7-11=12, 11-68=12, 12-68=22, 12-13=42, 57-61=-12
   Horz: 1-2=-20, 2-65=-24, 7-65=-29, 7-11=24, 11-68=24, 12-68=34, 12-13=54
   Trapezoidal Loads (plf)
   Vert: 64=51(F=39)-to-6=35(F=23)
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-0, 2-64=-44, 6-7=-44, 7-11=-44, 11-12=-32, 12-13=-27, 57-61=-20
   Horz: 1-2=-20, 2-7=24, 7-11=-24, 11-12=-12, 12-13=-7
   Trapezoidal Loads (plf)
   Vert: 64=-291(F=-247)-to-6=-193(F=-149)
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-40, 2-64=-44, 6-7=-44, 7-11=-44, 11-12=-32, 12-13=-13, 57-61=-20
   Horz: 1-2=20, 2-7=24, 7-11=-24, 11-12=-12, 12-13=7
   Trapezoidal Loads (plf)
   Vert: 64=-291(F=-247)-to-6=-193(F=-149)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-4, 2-64=-14, 6-7=-14, 7-11=5, 11-12=9, 12-13=5, 57-61=-12
   Horz: 1-2=-8, 2-7=2, 7-11=17, 11-12=21, 12-13=17
   Trapezoidal Loads (plf)
   Vert: 64=-26(F=-11)-to-6=-21(F=-7)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=1, 2-64=5, 6-7=5, 7-11=-14, 11-12=19, 12-13=29, 57-61=-12
   Horz: 1-2=-13, 2-7=-17, 7-11=-2, 11-12=31, 12-13=41
   Trapezoidal Loads (plf)
   Vert: 64=32(F=26)-to-6=21(F=16)
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-27, 2-64=-31, 6-7=-31, 7-11=-11, 11-12=-8, 12-13=-3, 57-61=-20
    Horz: 1-2=7, 2-7=11, 7-11=9, 11-12=12, 12-13=17
    Trapezoidal Loads (plf)
    Vert: 64=-228(F=-197)-to-6=-150(F=-118)
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-7, 2-64=-11, 6-7=-11, 7-11=-31, 11-12=2, 12-13=6, 57-61=-20
    Horz: 1-2=-13, 2-7=-9, 7-11=-11, 11-12=22, 12-13=26
    Trapezoidal Loads (plf)
    Vert: 64=-208(F=-197)-to-6=-130(F=-118)
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=14, 2-64=19, 6-7=9, 7-11=2, 11-12=2, 12-13=-3, 57-61=-12
    Horz: 1-2=-26, 2-4=-31, 4-7=-21, 7-11=14, 11-12=14, 12-13=9
    Trapezoidal Loads (plf)
    Vert: 64=45(F=26)-to-4=41(F=22), 4=31(F=22)-to-6=25(F=16)
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-2=-3, 2-64=2, 6-7=2, 7-11=9, 11-67=9, 12-67=19, 12-13=14, 57-61=-12
    Horz: 1-2=-9, 2-7=-14, 7-11=21, 11-67=21, 12-67=31, 12-13=26

Continued on page 3

LOAD CASE(S)

Trapezoidal Loads (plf)
Vert: 64=28(F=26)-to-6=17(F=16)

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-64=9, 6-7=9, 7-11=2, 11-12=2, 12-13=-3, 57-61=-12
Horz: 1-2=-17, 2-7=-21, 7-11=14, 11-12=14, 12-13=9
Trapezoidal Loads (plf)
Vert: 64=-0(F=-10)-to-6=4(F=-6)

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-64=2, 6-7=2, 7-11=9, 11-12=9, 12-13=5, 57-61=-12
Horz: 1-2=-9, 2-7=-14, 7-11=21, 11-12=21, 12-13=17
Trapezoidal Loads (plf)
Vert: 64=-8(F=-10)-to-6=-4(F=-6)

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-64=2, 6-7=-7, 7-11=-15, 11-12=-15, 12-13=-11, 57-61=-20
Horz: 1-2=-26, 2-4=-22, 4-7=-13, 7-11=5, 11-12=5, 12-13=9
Trapezoidal Loads (plf)
Vert: 64=-169(F=-171)-to-4=-142(F=-144), 4=-151(F=-144)-to-6=-110(F=-103)

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-11, 2-64=-15, 6-7=-15, 7-11=-7, 11-67=-7, 12-67=2, 12-13=6, 57-61=-20
Horz: 1-2=-9, 2-7=-5, 7-11=13, 11-67=13, 12-67=22, 12-13=26
Trapezoidal Loads (plf)
Vert: 64=-186(F=-171)-to-6=-118(F=-103)

18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-64=-20, 6-7=-20, 7-11=-20, 11-13=-20, 57-69=-20, 69-70=-60, 61-70=-20, 71-72=-40
Trapezoidal Loads (plf)
Vert: 64=-174(F=-154)-to-6=-113(F=-93)

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-55, 2-64=-58, 6-7=-58, 7-11=-44, 11-12=-41, 12-13=-38, 57-69=-20, 69-70=-50, 61-70=-20, 71-72=-30
Horz: 1-2=5, 2-7=8, 7-11=6, 11-12=9, 12-13=12
Trapezoidal Loads (plf)
Vert: 64=-360(F=-302)-to-6=-240(F=-182)

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-64=-44, 6-7=-44, 7-11=-58, 11-12=-34, 12-13=-30, 57-69=-20, 69-70=-50, 61-70=-20, 71-72=-30
Horz: 1-2=-10, 2-7=-6, 7-11=-8, 11-12=16, 12-13=20
Trapezoidal Loads (plf)
Vert: 64=-345(F=-302)-to-6=-225(F=-182)

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-64=-34, 6-7=-41, 7-11=-46, 11-12=-46, 12-13=-43, 57-69=-20, 69-70=-50, 61-70=-20, 71-72=-30
Horz: 1-2=-20, 2-4=-16, 4-7=-9, 7-11=4, 11-12=4, 12-13=7
Trapezoidal Loads (plf)
Vert: 64=-316(F=-282)-to-4=-271(F=-237), 4=-278(F=-237)-to-6=-211(F=-170)

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-43, 2-64=-46, 6-7=-46, 7-11=-41, 11-67=-41, 12-67=-34, 12-13=-30, 57-69=-20, 69-70=-50, 61-70=-20, 71-72=-30
Horz: 1-2=-7, 2-7=-4, 7-11=9, 11-67=9, 12-67=16, 12-13=20
Trapezoidal Loads (plf)
Vert: 64=-329(F=-282)-to-6=-217(F=-170)

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-64=-60, 6-7=-60, 7-11=-20, 11-13=-20, 57-61=-20
Trapezoidal Loads (plf)
Vert: 64=-368(F=-308)-to-6=-245(F=-185)

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-64=-20, 6-7=-20, 7-11=-60, 11-13=-60, 57-61=-20
Trapezoidal Loads (plf)
Vert: 64=-328(F=-308)-to-6=-205(F=-185)

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-64=-50, 6-7=-50, 7-11=-20, 11-13=-20, 57-69=-20, 69-70=-50, 61-70=-20, 71-72=-30
Trapezoidal Loads (plf)
Vert: 64=-319(F=-269)-to-6=-212(F=-162)

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-64=-20, 6-7=-20, 7-11=-50, 11-13=-50, 57-69=-20, 69-70=-50, 61-70=-20, 71-72=-30
Trapezoidal Loads (plf)
Vert: 64=-289(F=-269)-to-6=-182(F=-162)

Job	Truss	Truss Type	Qty	Ply	Herring-HawthorneIIB;Lot1 GriffinPointe
GP1-R	A02	SPECIAL	1	1	I53635382
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.530 s May 26 2022 MiTek Industries, Inc. Fri Aug 12 12:49:45 2022 Page 1
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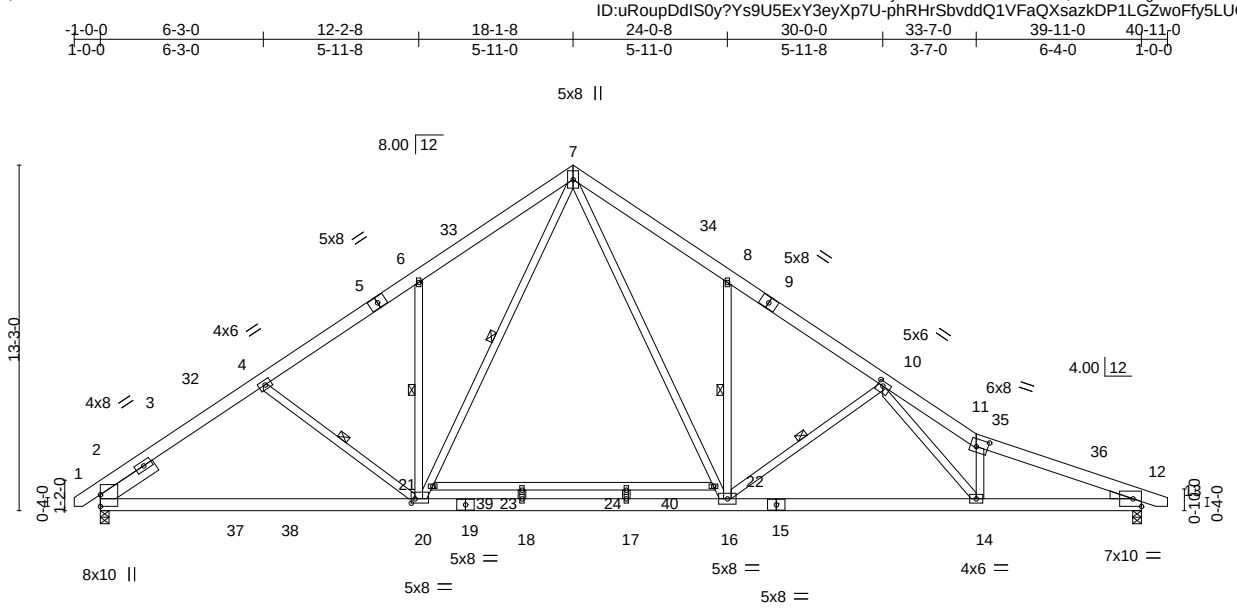

Plate Offsets (X,Y)-- [10:0-2-7,0-2-0], [11:0-5-4,0-3-8], [20:0-1-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.32	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.54	17-18	>879	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.09	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.12	14-16	>999	240	Weight: 332 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
1-5: 2x6 SP DSS
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.3 *Except*
7-20,7-16: 2x4 SP No.2
WEDGE
Right: 2x4 SP No.3
SLIDER Left 2x6 SP No.2 2-5-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-20, 6-20, 7-20, 8-16, 10-16

REACTIONS. (size) 2=0-4-0 (req. 0-4-7), 12=0-4-0
Max Horz 2=-256(LC 10)
Max Uplift 2=-127(LC 12)
Max Grav 2=3744(LC 1), 12=2065(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1414/0, 3-32=-5268/443, 4-32=-5257/446, 4-5=-4022/311, 5-6=-3317/269, 6-33=-3674/394, 7-33=-3627/429, 7-34=-3056/346, 8-34=-3146/311, 8-9=-3006/228, 9-10=-3158/206, 10-11=-5264/262, 11-35=-4556/180, 35-36=-4628/178, 12-36=-4647/165
BOT CHORD 2-37=-275/4186, 37-38=-275/4186, 20-38=-275/4186, 19-20=0/1983, 18-19=0/1983, 17-18=0/1983, 16-17=0/1983, 15-16=-95/3356, 14-15=-95/3356, 12-14=-109/4323
WEBS 4-20=-1459/257, 6-20=-1026/239, 20-21=-276/2459, 7-21=-273/2457, 7-22=-101/1491, 16-22=-104/1497, 8-16=-368/160, 10-16=-1025/121, 11-14=-1461/123, 10-14=-37/1753

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-1 to 2-1-15, Interior(1) 2-1-15 to 18-1-8, Exterior(2) 18-1-8 to 22-4-7, Interior(1) 22-4-7 to 40-8-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
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, with BCDL = 10.0psf.
6) WARNING: Required bearing size at joint(s) 2 greater than input bearing size.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 2.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) N/A
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

August 14,2022

LOAD CASE(S)
Continued on page 2

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

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-32=-60, 6-7=-60, 7-11=-60, 11-13=-60, 25-29=-20
   Trapezoidal Loads (plf)
   Vert: 32=-368(F=-308)-to-6=-245(F=-185)
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-32=-50, 6-7=-50, 7-11=-50, 11-13=-50, 25-37=-20, 37-38=-50, 29-38=-20, 39-40=-30
   Trapezoidal Loads (plf)
   Vert: 32=-319(F=-269)-to-6=-212(F=-162)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-32=-20, 6-7=-20, 7-11=-20, 11-13=-20, 25-29=-40, 39-40=-40
   Trapezoidal Loads (plf)
   Vert: 32=-251(F=-231)-to-6=-159(F=-139)
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=32, 2-32=17, 6-7=12, 7-34=17, 11-34=12, 11-12=12, 12-13=8, 25-29=-12
   Horz: 1-2=-44, 2-32=-29, 7-32=-24, 7-34=29, 11-34=24, 11-12=24, 12-13=20
   Trapezoidal Loads (plf)
   Vert: 32=32(F=20)-to-6=24(F=12)
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=8, 2-32=12, 6-33=12, 7-33=17, 7-11=12, 11-36=12, 12-36=22, 12-13=42, 25-29=-12
   Horz: 1-2=-20, 2-33=-24, 7-33=-29, 7-11=24, 11-36=24, 12-36=34, 12-13=54
   Trapezoidal Loads (plf)
   Vert: 32=51(F=39)-to-6=35(F=23)
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-0, 2-32=-44, 6-7=-44, 7-11=-44, 11-12=-32, 12-13=-27, 25-29=-20
   Horz: 1-2=-20, 2-7=24, 7-11=-24, 11-12=-12, 12-13=-7
   Trapezoidal Loads (plf)
   Vert: 32=-291(F=-247)-to-6=-193(F=-149)
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-40, 2-32=-44, 6-7=-44, 7-11=-44, 11-12=-32, 12-13=-13, 25-29=-20
   Horz: 1-2=20, 2-7=24, 7-11=-24, 11-12=-12, 12-13=7
   Trapezoidal Loads (plf)
   Vert: 32=-291(F=-247)-to-6=-193(F=-149)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-4, 2-32=-14, 6-7=-14, 7-11=5, 11-12=9, 12-13=5, 25-29=-12
   Horz: 1-2=-8, 2-7=2, 7-11=17, 11-12=21, 12-13=17
   Trapezoidal Loads (plf)
   Vert: 32=-26(F=-11)-to-6=-21(F=-7)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=1, 2-32=5, 6-7=5, 7-11=-14, 11-12=19, 12-13=29, 25-29=-12
   Horz: 1-2=-13, 2-7=-17, 7-11=-2, 11-12=31, 12-13=41
   Trapezoidal Loads (plf)
   Vert: 32=32(F=26)-to-6=21(F=16)
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-27, 2-32=-31, 6-7=-31, 7-11=-11, 11-12=-8, 12-13=-3, 25-29=-20
   Horz: 1-2=7, 2-7=11, 7-11=9, 11-12=12, 12-13=17
   Trapezoidal Loads (plf)
   Vert: 32=-228(F=-197)-to-6=-150(F=-118)
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-7, 2-32=-11, 6-7=-11, 7-11=-31, 11-12=2, 12-13=6, 25-29=-20
   Horz: 1-2=-13, 2-7=-9, 7-11=-11, 11-12=22, 12-13=26
   Trapezoidal Loads (plf)
   Vert: 32=-208(F=-197)-to-6=-130(F=-118)
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=14, 2-32=19, 6-7=9, 7-11=2, 11-12=2, 12-13=-3, 25-29=-12
   Horz: 1-2=-26, 2-4=-31, 4-7=-21, 7-11=14, 11-12=14, 12-13=9
   Trapezoidal Loads (plf)
   Vert: 32=45(F=26)-to-4=41(F=22), 4=31(F=22)-to-6=25(F=16)
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-3, 2-32=2, 6-7=2, 7-11=9, 11-35=9, 12-35=19, 12-13=14, 25-29=-12
   Horz: 1-2=-9, 2-7=-14, 7-11=21, 11-35=21, 12-35=31, 12-13=26
   Trapezoidal Loads (plf)
   Vert: 32=28(F=26)-to-6=17(F=16)
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=5, 2-32=9, 6-7=9, 7-11=2, 11-12=2, 12-13=-3, 25-29=-12
Horz: 1-2=-17, 2-7=-21, 7-11=14, 11-12=14, 12-13=9
Trapezoidal Loads (plf)
Vert: 32=-0(F=-10)-to-6=4(F=-6)

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-32=2, 6-7=2, 7-11=9, 11-12=9, 12-13=5, 25-29=-12
Horz: 1-2=-9, 2-7=-14, 7-11=21, 11-12=21, 12-13=17
Trapezoidal Loads (plf)
Vert: 32=-8(F=-10)-to-6=-4(F=-6)

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-32=2, 6-7=-7, 7-11=-15, 11-12=-15, 12-13=-11, 25-29=-20
Horz: 1-2=-26, 2-4=-22, 4-7=-13, 7-11=5, 11-12=5, 12-13=9
Trapezoidal Loads (plf)
Vert: 32=-169(F=-171)-to-4=-142(F=-144), 4=-151(F=-144)-to-6=-110(F=-103)

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-11, 2-32=-15, 6-7=-15, 7-11=-7, 11-35=-7, 12-35=2, 12-13=6, 25-29=-20
Horz: 1-2=-9, 2-7=-5, 7-11=13, 11-35=13, 12-35=22, 12-13=26
Trapezoidal Loads (plf)
Vert: 32=-186(F=-171)-to-6=-118(F=-103)

18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-32=-20, 6-7=-20, 7-11=-20, 11-13=-20, 25-37=-20, 37-38=-60, 29-38=-20, 39-40=-40
Trapezoidal Loads (plf)
Vert: 32=-174(F=-154)-to-6=-113(F=-93)

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-55, 2-32=-58, 6-7=-58, 7-11=-44, 11-12=-41, 12-13=-38, 25-37=-20, 37-38=-50, 29-38=-20, 39-40=-30
Horz: 1-2=5, 2-7=8, 7-11=6, 11-12=9, 12-13=12
Trapezoidal Loads (plf)
Vert: 32=-360(F=-302)-to-6=-240(F=-182)

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-32=-44, 6-7=-44, 7-11=-58, 11-12=-34, 12-13=-30, 25-37=-20, 37-38=-50, 29-38=-20, 39-40=-30
Horz: 1-2=-10, 2-7=-6, 7-11=-8, 11-12=16, 12-13=20
Trapezoidal Loads (plf)
Vert: 32=-345(F=-302)-to-6=-225(F=-182)

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-32=-34, 6-7=-41, 7-11=-46, 11-12=-46, 12-13=-43, 25-37=-20, 37-38=-50, 29-38=-20, 39-40=-30
Horz: 1-2=-20, 2-4=-16, 4-7=-9, 7-11=4, 11-12=4, 12-13=7
Trapezoidal Loads (plf)
Vert: 32=-316(F=-282)-to-4=-271(F=-237), 4=-278(F=-237)-to-6=-211(F=-170)

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-43, 2-32=-46, 6-7=-46, 7-11=-41, 11-35=-41, 12-35=-34, 12-13=-30, 25-37=-20, 37-38=-50, 29-38=-20, 39-40=-30
Horz: 1-2=-7, 2-7=-4, 7-11=9, 11-35=9, 12-35=16, 12-13=20
Trapezoidal Loads (plf)
Vert: 32=-329(F=-282)-to-6=-217(F=-170)

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-60, 6-7=-60, 7-11=-20, 11-13=-20, 25-29=-20
Trapezoidal Loads (plf)
Vert: 32=-368(F=-308)-to-6=-245(F=-185)

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-20, 6-7=-20, 7-11=-60, 11-13=-60, 25-29=-20
Trapezoidal Loads (plf)
Vert: 32=-328(F=-308)-to-6=-205(F=-185)

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-50, 6-7=-50, 7-11=-20, 11-13=-20, 25-37=-20, 37-38=-50, 29-38=-20, 39-40=-30
Trapezoidal Loads (plf)
Vert: 32=-319(F=-269)-to-6=-212(F=-162)

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-32=-20, 6-7=-20, 7-11=-50, 11-13=-50, 25-37=-20, 37-38=-50, 29-38=-20, 39-40=-30
Trapezoidal Loads (plf)
Vert: 32=-289(F=-269)-to-6=-182(F=-162)

Job	Truss	Truss Type	Qty	Ply	Herring-HawthorneIIB;Lot1 GriffinPointe	I53635383
GP1-R	A03	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523 — 8.530 s May 26 2022 MiTek Industries, Inc. Fri Aug 12 12:49:56 2022 Page 1
ID:uRoupDdIS0y?Ys9U5ExY3eyXp7U-?ocR8Ckp1?pUJxwXggGYhYMvaiJVtDOadYfL21yoawv

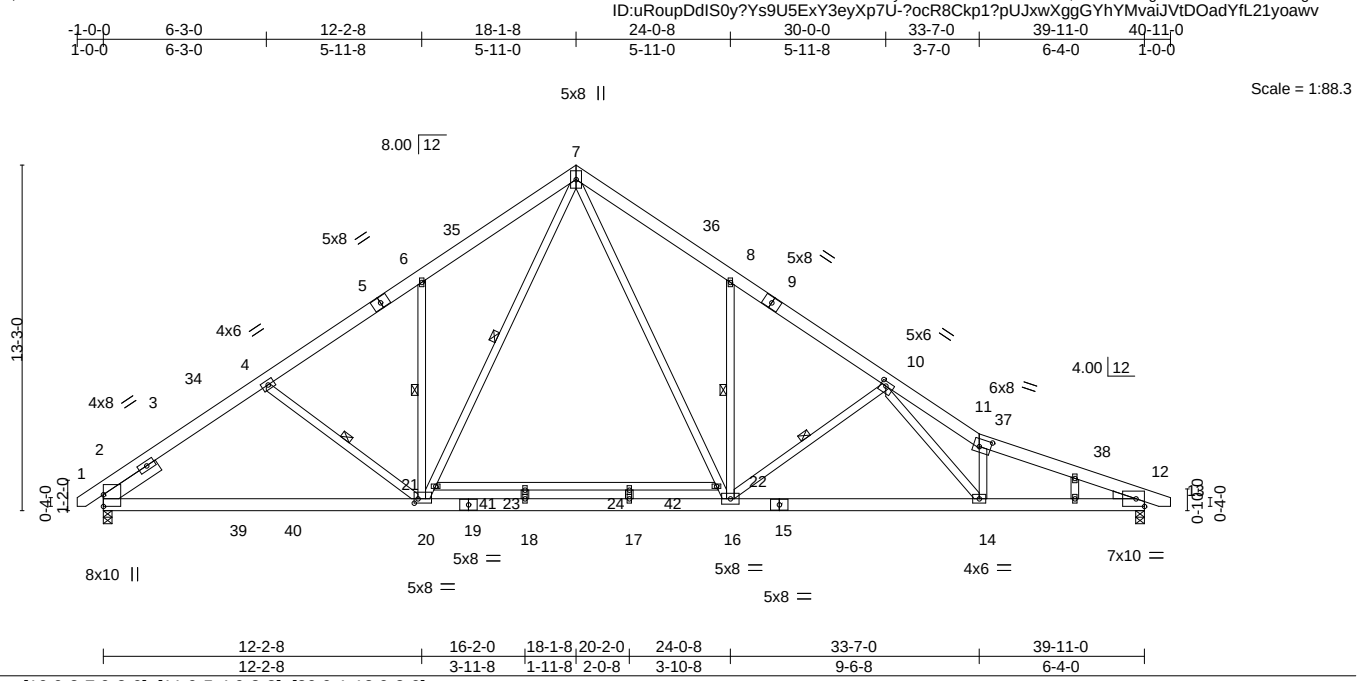

Plate Offsets (X,Y)-- [10:0-2-7,0-2-0], [11:0-5-4,0-3-8], [20:0-1-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.32	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.54	17-18	>879	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.09	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.12	14-16	>999	240	Weight: 333 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
1-5: 2x6 SP DSS
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.3 *Except*
7-20,7-16: 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3
SLIDER Left 2x6 SP No.2 2-5-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-20, 6-20, 7-20, 8-16, 10-16

REACTIONS. (size) 2=0-4-0 (req. 0-4-7), 12=0-4-0
Max Horz 2=-256(LC 10)
Max Uplift 2=-127(LC 12)
Max Grav 2=3744(LC 1), 12=2065(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1414/0, 3-34=-5268/443, 4-34=-5257/446, 4-5=-4022/311, 5-6=-3317/269, 6-35=-3674/394, 7-35=-3627/429, 7-36=-3056/346, 8-36=-3146/311, 8-9=-3006/228, 9-10=-3158/206, 10-11=-5264/262, 11-37=-4556/180, 37-38=-4628/178, 12-38=-4647/165
BOT CHORD 2-39=-275/4186, 39-40=-275/4186, 20-40=-275/4186, 19-20=0/1983, 18-19=0/1983, 17-18=0/1983, 16-17=0/1983, 15-16=-95/3356, 14-15=-95/3356, 12-14=-109/4323
WEBS 4-20=-1459/257, 6-20=-1026/239, 20-21=-276/2459, 7-21=-273/2457, 7-22=-101/1491, 16-22=-104/1497, 8-16=-368/160, 10-16=-1025/121, 11-14=-1461/123, 10-14=-37/1753

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-1 to 2-1-15, Interior(1) 2-1-15 to 18-1-8, Exterior(2) 18-1-8 to 22-4-7, Interior(1) 22-4-7 to 40-8-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
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, with BCDL = 10.0psf.
8) WARNING: Required bearing size at joint(s) 2 greater than input bearing size.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 2.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

August 14,2022

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

NOTES-

11) N/A

12) 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)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-34=-60, 6-7=-60, 7-11=-60, 11-13=-60, 27-31=-20
   Trapezoidal Loads (plf)
   Vert: 34=-368(F=-308)-to-6=-245(F=-185)
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-34=-50, 6-7=-50, 7-11=-50, 11-13=-50, 27-39=-20, 39-40=-50, 31-40=-20, 41-42=-30
   Trapezoidal Loads (plf)
   Vert: 34=-319(F=-269)-to-6=-212(F=-162)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-34=-20, 6-7=-20, 7-11=-20, 11-13=-20, 27-31=-40, 41-42=-40
   Trapezoidal Loads (plf)
   Vert: 34=-251(F=-231)-to-6=-159(F=-139)
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=32, 2-34=17, 6-7=12, 7-36=17, 11-36=12, 11-12=12, 12-13=8, 27-31=-12
   Horz: 1-2=-44, 2-34=-29, 7-34=-24, 7-36=29, 11-36=24, 11-12=24, 12-13=20
   Trapezoidal Loads (plf)
   Vert: 34=32(F=20)-to-6=24(F=12)
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=8, 2-34=12, 6-35=12, 7-35=17, 7-11=12, 11-38=12, 12-38=22, 12-13=42, 27-31=-12
   Horz: 1-2=-20, 2-35=-24, 7-35=-29, 7-11=24, 11-38=24, 12-38=34, 12-13=54
   Trapezoidal Loads (plf)
   Vert: 34=51(F=39)-to-6=35(F=23)
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-0, 2-34=-44, 6-7=-44, 7-11=-44, 11-12=-32, 12-13=-27, 27-31=-20
   Horz: 1-2=-20, 2-7=24, 7-11=-24, 11-12=-12, 12-13=-7
   Trapezoidal Loads (plf)
   Vert: 34=-291(F=-247)-to-6=-193(F=-149)
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-40, 2-34=-44, 6-7=-44, 7-11=-44, 11-12=-32, 12-13=-13, 27-31=-20
   Horz: 1-2=20, 2-7=24, 7-11=-24, 11-12=-12, 12-13=7
   Trapezoidal Loads (plf)
   Vert: 34=-291(F=-247)-to-6=-193(F=-149)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-4, 2-34=-14, 6-7=-14, 7-11=5, 11-12=9, 12-13=5, 27-31=-12
   Horz: 1-2=-8, 2-7=2, 7-11=17, 11-12=21, 12-13=17
   Trapezoidal Loads (plf)
   Vert: 34=-26(F=-11)-to-6=-21(F=-7)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=1, 2-34=5, 6-7=5, 7-11=-14, 11-12=19, 12-13=29, 27-31=-12
   Horz: 1-2=-13, 2-7=-17, 7-11=-2, 11-12=31, 12-13=41
   Trapezoidal Loads (plf)
   Vert: 34=32(F=26)-to-6=21(F=16)
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-27, 2-34=-31, 6-7=-31, 7-11=-11, 11-12=-8, 12-13=-3, 27-31=-20
   Horz: 1-2=7, 2-7=11, 7-11=9, 11-12=12, 12-13=17
   Trapezoidal Loads (plf)
   Vert: 34=-228(F=-197)-to-6=-150(F=-118)
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-7, 2-34=-11, 6-7=-11, 7-11=-31, 11-12=2, 12-13=6, 27-31=-20
   Horz: 1-2=-13, 2-7=-9, 7-11=-11, 11-12=22, 12-13=26
   Trapezoidal Loads (plf)
   Vert: 34=-208(F=-197)-to-6=-130(F=-118)
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=14, 2-34=19, 6-7=9, 7-11=2, 11-12=2, 12-13=-3, 27-31=-12
   Horz: 1-2=-26, 2-4=-31, 4-7=-21, 7-11=14, 11-12=14, 12-13=9
   Trapezoidal Loads (plf)
   Vert: 34=45(F=26)-to-4=41(F=22), 4=31(F=22)-to-6=25(F=16)
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-3, 2-34=2, 6-7=2, 7-11=9, 11-37=9, 12-37=19, 12-13=14, 27-31=-12
   Horz: 1-2=-9, 2-7=-14, 7-11=21, 11-37=21, 12-37=31, 12-13=26

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LOAD CASE(S)

Trapezoidal Loads (plf)
Vert: 34=28(F=26)-to-6=17(F=16)

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-34=9, 6-7=9, 7-11=2, 11-12=2, 12-13=-3, 27-31=-12
Horz: 1-2=-17, 2-7=-21, 7-11=14, 11-12=14, 12-13=9
Trapezoidal Loads (plf)
Vert: 34=-0(F=-10)-to-6=4(F=-6)

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-34=2, 6-7=2, 7-11=9, 11-12=9, 12-13=5, 27-31=-12
Horz: 1-2=-9, 2-7=-14, 7-11=21, 11-12=21, 12-13=17
Trapezoidal Loads (plf)
Vert: 34=-8(F=-10)-to-6=-4(F=-6)

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-34=2, 6-7=-7, 7-11=-15, 11-12=-15, 12-13=-11, 27-31=-20
Horz: 1-2=-26, 2-4=-22, 4-7=-13, 7-11=5, 11-12=5, 12-13=9
Trapezoidal Loads (plf)
Vert: 34=-169(F=-171)-to-4=-142(F=-144), 4=-151(F=-144)-to-6=-110(F=-103)

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-11, 2-34=-15, 6-7=-15, 7-11=-7, 11-37=-7, 12-37=2, 12-13=6, 27-31=-20
Horz: 1-2=-9, 2-7=-5, 7-11=13, 11-37=13, 12-37=22, 12-13=26
Trapezoidal Loads (plf)
Vert: 34=-186(F=-171)-to-6=-118(F=-103)

18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-34=-20, 6-7=-20, 7-11=-20, 11-13=-20, 27-39=-20, 39-40=-60, 31-40=-20, 41-42=-40
Trapezoidal Loads (plf)
Vert: 34=-174(F=-154)-to-6=-113(F=-93)

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-55, 2-34=-58, 6-7=-58, 7-11=-44, 11-12=-41, 12-13=-38, 27-39=-20, 39-40=-50, 31-40=-20, 41-42=-30
Horz: 1-2=5, 2-7=8, 7-11=6, 11-12=9, 12-13=12
Trapezoidal Loads (plf)
Vert: 34=-360(F=-302)-to-6=-240(F=-182)

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-34=-44, 6-7=-44, 7-11=-58, 11-12=-34, 12-13=-30, 27-39=-20, 39-40=-50, 31-40=-20, 41-42=-30
Horz: 1-2=-10, 2-7=-6, 7-11=-8, 11-12=16, 12-13=20
Trapezoidal Loads (plf)
Vert: 34=-345(F=-302)-to-6=-225(F=-182)

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-34=-34, 6-7=-41, 7-11=-46, 11-12=-46, 12-13=-43, 27-39=-20, 39-40=-50, 31-40=-20, 41-42=-30
Horz: 1-2=-20, 2-4=-16, 4-7=-9, 7-11=4, 11-12=4, 12-13=7
Trapezoidal Loads (plf)
Vert: 34=-316(F=-282)-to-4=-271(F=-237), 4=-278(F=-237)-to-6=-211(F=-170)

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-43, 2-34=-46, 6-7=-46, 7-11=-41, 11-37=-41, 12-37=-34, 12-13=-30, 27-39=-20, 39-40=-50, 31-40=-20, 41-42=-30
Horz: 1-2=-7, 2-7=-4, 7-11=9, 11-37=9, 12-37=16, 12-13=20
Trapezoidal Loads (plf)
Vert: 34=-329(F=-282)-to-6=-217(F=-170)

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-34=-60, 6-7=-60, 7-11=-20, 11-13=-20, 27-31=-20
Trapezoidal Loads (plf)
Vert: 34=-368(F=-308)-to-6=-245(F=-185)

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-34=-20, 6-7=-20, 7-11=-60, 11-13=-60, 27-31=-20
Trapezoidal Loads (plf)
Vert: 34=-328(F=-308)-to-6=-205(F=-185)

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-34=-50, 6-7=-50, 7-11=-20, 11-13=-20, 27-39=-20, 39-40=-50, 31-40=-20, 41-42=-30
Trapezoidal Loads (plf)
Vert: 34=-319(F=-269)-to-6=-212(F=-162)

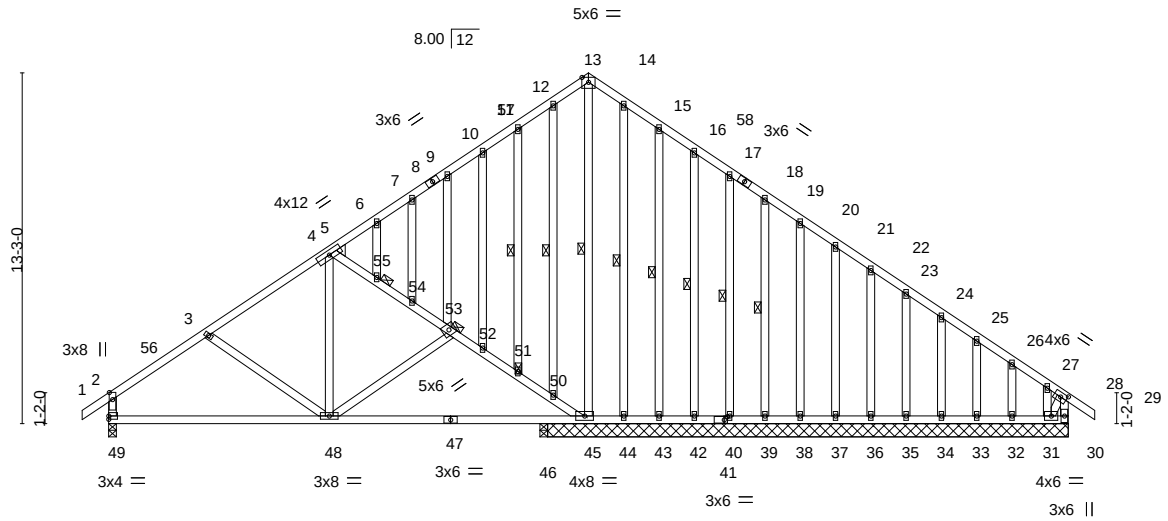
26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-34=-20, 6-7=-20, 7-11=-50, 11-13=-50, 27-39=-20, 39-40=-50, 31-40=-20, 41-42=-30
Trapezoidal Loads (plf)
Vert: 34=-289(F=-269)-to-6=-182(F=-162)

Job	Truss	Truss Type	Qty	Ply	Herring-HawthorneIIB;Lot1 GriffinPointe
GP1-R	B01G	QUEENPOST	1	1	I53635384
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Aug 12 09:45:06 2022 Page 1
ID:uRoupDdIS0y?Ys9U5ExY3eyXp7U-TSDvCcnAjXXj7vJ6rt5z0e2mnFlaTdlDUAEWppyodeB

-1-0-0 3-9-4 8-4-0 12-10-12 18-1-8 36-3-0 37-3-0
1-0-0 3-9-4 4-6-12 4-6-12 5-2-12 18-1-8 1-0-0

Scale = 1:87.0



8-4-0 16-3-8 36-3-0
8-4-0 7-11-8 19-11-8

Plate Offsets (X,Y)-- [28:0-2-14,0-2-0], [41:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.10	48-49	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.20	48-49	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.50	Horz(CT)	0.01	45	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	48	>999	240	Weight: 373 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
13-45,2-49,28-30: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 48-49,46-48,45-46.
WEBS 1 Row at midpt 13-45, 14-44, 12-50, 15-43, 16-42, 17-40, 19-39, 11-51
JOINTS 1 Brace at Jt(s): 51, 53, 55

REACTIONS. All bearings 19-8-0 except (jt=length) 49=0-3-8, 46=0-3-8.
(lb) - Max Horz 49=276(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 49, 43, 42, 40, 39, 38, 37, 36, 35, 34, 33, 32 except 45=-186(LC 12), 31=-304(LC 13), 30=-690(LC 23)
Max Grav All reactions 250 lb or less at joint(s) 44, 43, 42, 40, 39, 38, 37, 36, 35, 34, 33, 32 except 49=504(LC 1), 45=1074(LC 1), 31=562(LC 20), 30=398(LC 13), 46=322(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-447/53, 3-4=-263/57, 5-6=-106/496, 6-7=-48/440, 7-9=-52/498, 9-10=0/405, 10-11=0/416, 11-12=0/447, 12-13=0/491, 13-14=0/456, 14-15=0/454, 15-16=0/442, 16-17=0/442, 17-19=0/443, 19-20=0/443, 20-21=-16/443, 21-22=-49/443, 22-23=-82/443, 23-24=-115/443, 24-25=-148/443, 25-26=-180/442, 26-27=-216/459, 27-28=-230/478, 2-49=-421/87, 28-30=-375/755
BOT CHORD 48-49=-165/451, 46-48=-159/548, 45-46=-159/548, 44-45=-427/211, 43-44=-427/211, 42-43=-427/211, 40-42=-427/211, 39-40=-427/211, 38-39=-427/211, 37-38=-427/211, 36-37=-427/211, 35-36=-427/211, 34-35=-427/211, 33-34=-427/211, 32-33=-427/211, 31-32=-427/211
WEBS 4-55=-583/138, 54-55=-676/187, 53-54=-654/175, 52-53=-899/301, 51-52=-929/316, 50-51=-940/327, 45-50=-942/321, 13-45=-655/0, 4-48=-76/489, 48-53=-338/173, 4-5=-107/459, 28-31=-651/337

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 18-1-8, Exterior(2) 18-1-8 to 21-1-8, Interior(1) 21-1-8 to 37-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 49, 43, 42, 40, 39, 38, 37, 36, 35, 34, 33, 32 except (jt=lb) 45=186, 31=304, 30=690.

August 14,2022

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

Job	Truss	Truss Type	Qty	Ply	Herring-HawthorneIIB;Lot1 GriffinPointe
GP1-R	B02	COMMON	1	1	I53635385
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.530 s May 26 2022 MiTek Industries, Inc. Fri Aug 12 12:50:09 2022 Page 1
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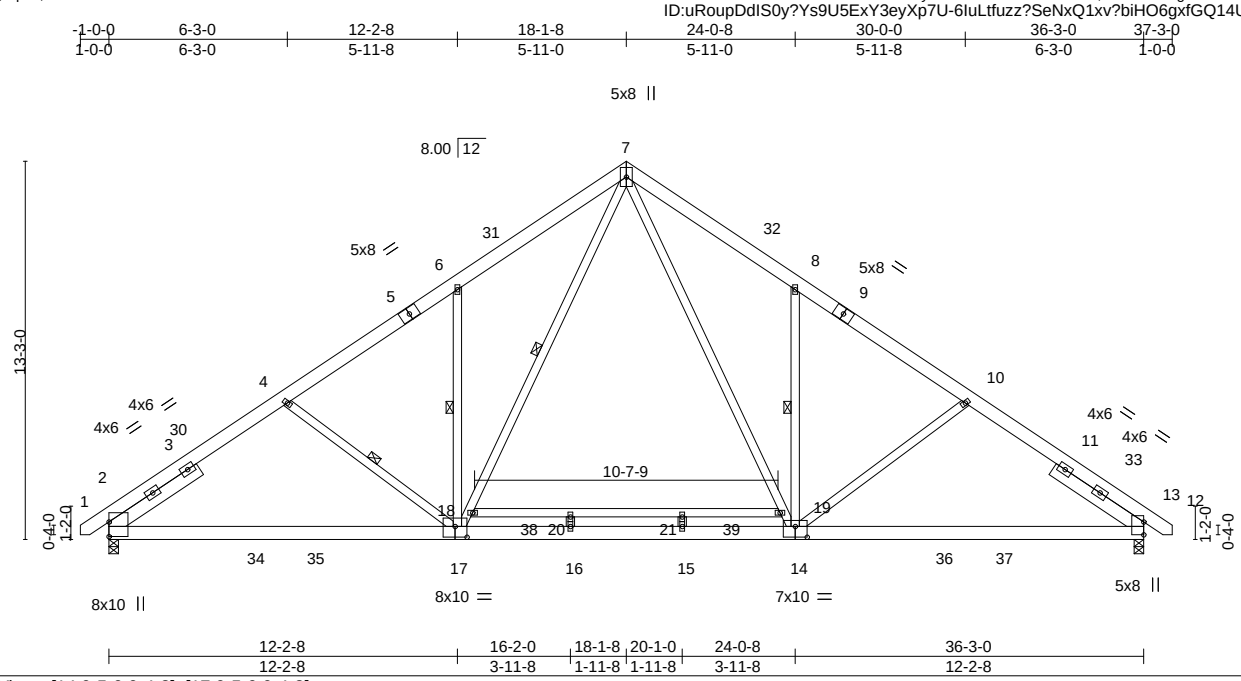

Plate Offsets (X,Y)-- [14:0-5-0,0-4-8], [17:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.34	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.51	15-16	>850	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.08	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.08	16-17	>999	240	Weight: 315 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2 *Except*
	1-5,9-13: 2x6 SP DSS
BOT CHORD	2x6 SP No.2 *Except*
	2-17: 2x6 SP DSS
WEBS	2x4 SP No.3 *Except*
	7-14,7-17: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 3-9-3, Right 2x6 SP No.2 3-9-3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-9-9 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 8-14, 7-17, 6-17, 4-17

REACTIONS. (size) 2=0-4-0 (req. 0-4-3), 12=0-4-0
Max Horz 2=-249(LC 10)
Max Uplift 2=-136(LC 12), 12=-1(LC 13)
Max Grav 2=3555(LC 1), 12=1965(LC 1)

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

TOP CHORD	2-30=-1754/0, 3-30=-1572/0, 3-4=-4298/251, 4-5=-3740/190, 5-6=-3015/183, 6-31=-3355/291, 7-31=-3300/327, 7-32=-2432/274, 8-32=-2540/239, 8-9=-2363/153, 9-10=-2492/132, 10-11=-2664/146, 11-33=-944/0, 12-33=-989/0
BOT CHORD	2-34=-207/3843, 34-35=-207/3843, 17-35=-207/3843, 16-17=0/1472, 15-16=0/1472, 14-15=0/1472, 14-36=-24/2124, 36-37=-24/2124, 12-37=-24/2124
WEBS	7-19=-86/874, 14-19=-96/971, 8-14=-425/162, 17-18=-204/2468, 7-18=-197/2381, 6-17=-1033/201, 4-17=-1474/243

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-1 to 2-1-15, Interior(1) 2-1-15 to 18-1-8, Exterior(2) 18-1-8 to 22-4-7, Interior(1) 22-4-7 to 37-1-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
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, with BCDL = 10.0psf.
6) WARNING: Required bearing size at joint(s) 2 greater than input bearing size.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 2 and 1 lb uplift at joint 12.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) N/A
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

August 14,2022

LOAD CASE(S)

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-30=-60, 6-7=-60, 7-13=-60, 22-26=-20
   Trapezoidal Loads (plf)
   Vert: 30=-368-to-6=-245
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-30=-50, 6-7=-50, 7-13=-50, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20
   Trapezoidal Loads (plf)
   Vert: 30=-319-to-6=-212
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-30=-20, 6-7=-20, 7-13=-20, 22-26=-40, 38-39=-40(F)
   Trapezoidal Loads (plf)
   Vert: 30=-251-to-6=-159
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=32, 2-30=17, 6-7=12, 7-32=17, 12-32=12, 12-13=8, 22-26=-12
   Horz: 1-2=-44, 2-30=-29, 7-30=-24, 7-32=29, 12-32=24, 12-13=20
   Trapezoidal Loads (plf)
   Vert: 30=32-to-6=24
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=8, 2-30=12, 6-31=12, 7-31=17, 7-33=12, 12-33=17, 12-13=32, 22-26=-12
   Horz: 1-2=-20, 2-31=-24, 7-31=-29, 7-33=24, 12-33=29, 12-13=44
   Trapezoidal Loads (plf)
   Vert: 30=32-to-6=24
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-0, 2-30=-44, 6-7=-44, 7-12=-44, 12-13=-40, 22-26=-20
   Horz: 1-2=-20, 2-7=24, 7-12=-24, 12-13=-20
   Trapezoidal Loads (plf)
   Vert: 30=-291-to-6=-193
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-40, 2-30=-44, 6-7=-44, 7-12=-44, 12-13=-0, 22-26=-20
   Horz: 1-2=20, 2-7=24, 7-12=-24, 12-13=20
   Trapezoidal Loads (plf)
   Vert: 30=-291-to-6=-193
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-4, 2-30=-14, 6-7=-14, 7-12=5, 12-13=1, 22-26=-12
   Horz: 1-2=-8, 2-7=2, 7-12=17, 12-13=13
   Trapezoidal Loads (plf)
   Vert: 30=-39-to-6=-29
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=1, 2-30=5, 6-7=5, 7-12=-14, 12-13=-4, 22-26=-12
   Horz: 1-2=-13, 2-7=-17, 7-12=-2, 12-13=8
   Trapezoidal Loads (plf)
   Vert: 30=-20-to-6=-10
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-27, 2-30=-31, 6-7=-31, 7-12=-11, 12-13=-7, 22-26=-20
   Horz: 1-2=7, 2-7=11, 7-12=9, 12-13=13
   Trapezoidal Loads (plf)
   Vert: 30=-228-to-6=-150
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-7, 2-30=-11, 6-7=-11, 7-12=-31, 12-13=-27, 22-26=-20
   Horz: 1-2=-13, 2-7=-9, 7-12=-11, 12-13=-7
   Trapezoidal Loads (plf)
   Vert: 30=-208-to-6=-130
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=14, 2-30=19, 6-7=9, 7-12=2, 12-13=-3, 22-26=-12
   Horz: 1-2=-26, 2-4=-31, 4-7=-21, 7-12=14, 12-13=9
   Trapezoidal Loads (plf)
   Vert: 30=45-to-4=41, 4=31-to-6=25
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-3, 2-30=2, 6-7=2, 7-10=9, 10-12=19, 12-13=14, 22-26=-12
   Horz: 1-2=-9, 2-7=-14, 7-10=21, 10-12=31, 12-13=26
   Trapezoidal Loads (plf)
   Vert: 30=28-to-6=17
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=5, 2-30=9, 6-7=9, 7-12=2, 12-13=-3, 22-26=-12
Horz: 1-2=-17, 2-7=-21, 7-12=14, 12-13=9
Trapezoidal Loads (plf)
Vert: 30=-0-to-6=4

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-30=2, 6-7=2, 7-12=9, 12-13=5, 22-26=-12
Horz: 1-2=-9, 2-7=-14, 7-12=21, 12-13=17
Trapezoidal Loads (plf)
Vert: 30=-8-to-6=-4

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-30=2, 6-7=-7, 7-12=-15, 12-13=-11, 22-26=-20
Horz: 1-2=-26, 2-4=-22, 4-7=-13, 7-12=5, 12-13=9
Trapezoidal Loads (plf)
Vert: 30=-169-to-4=-142, 4=-151-to-6=-110

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-11, 2-30=-15, 6-7=-15, 7-10=-7, 10-12=2, 12-13=6, 22-26=-20
Horz: 1-2=-9, 2-7=-5, 7-10=13, 10-12=22, 12-13=26
Trapezoidal Loads (plf)
Vert: 30=-186-to-6=-118

18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-30=-20, 6-7=-20, 7-13=-20, 22-34=-20, 34-35=-60, 35-36=-20, 36-37=-60, 26-37=-20, 38-39=-40(F)
Trapezoidal Loads (plf)
Vert: 30=-174-to-6=-113

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-55, 2-30=-58, 6-7=-58, 7-12=-44, 12-13=-40, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20
Horz: 1-2=5, 2-7=8, 7-12=6, 12-13=10
Trapezoidal Loads (plf)
Vert: 30=-360-to-6=-240

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-30=-44, 6-7=-44, 7-12=-58, 12-13=-55, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20
Horz: 1-2=-10, 2-7=-6, 7-12=-8, 12-13=-5
Trapezoidal Loads (plf)
Vert: 30=-345-to-6=-225

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-30=-34, 6-7=-41, 7-12=-46, 12-13=-43, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20
Horz: 1-2=-20, 2-4=-16, 4-7=-9, 7-12=4, 12-13=7
Trapezoidal Loads (plf)
Vert: 30=-316-to-4=-271, 4=-278-to-6=-211

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-43, 2-30=-46, 6-7=-46, 7-10=-41, 10-12=-34, 12-13=-30, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20
Horz: 1-2=-7, 2-7=-4, 7-10=9, 10-12=16, 12-13=20
Trapezoidal Loads (plf)
Vert: 30=-329-to-6=-217

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-30=-60, 6-7=-60, 7-13=-20, 22-26=-20
Trapezoidal Loads (plf)
Vert: 30=-368-to-6=-245

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-30=-20, 6-7=-20, 7-13=-60, 22-26=-20
Trapezoidal Loads (plf)
Vert: 30=-328-to-6=-205

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-30=-50, 6-7=-50, 7-13=-20, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20
Trapezoidal Loads (plf)
Vert: 30=-319-to-6=-212

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-30=-20, 6-7=-20, 7-13=-50, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20
Trapezoidal Loads (plf)
Vert: 30=-290-to-6=-182

Job	Truss	Truss Type	Qty	Ply	Herring-HawthorneIIB;Lot1 GriffinPointe
GP1-R	B03	COMMON	1	1	I53635386
					Job Reference (optional)

Builders FirstSource, Apex, NC 27523 — 8.530 s May 26 2022 MiTek Industries, Inc. Fri Aug 12 12:50:21 2022 Page 1
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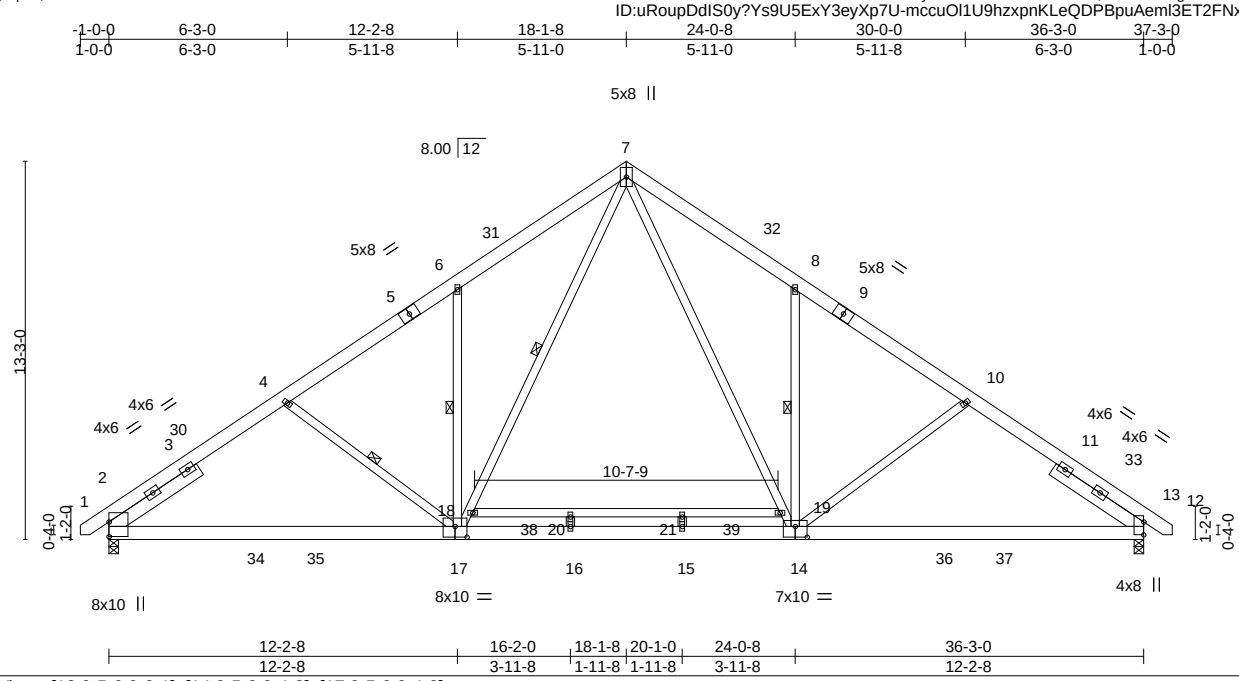

Plate Offsets (X,Y)-- [12:0-5-6,0-0-1], [14:0-5-0,0-4-8], [17:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.34	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.51	15-16	>850	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.08	12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.08	16-17	>999	240	Weight: 315 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2 *Except*
	1-5,9-13: 2x6 SP DSS
BOT CHORD	2x6 SP No.2 *Except*
	2-17: 2x6 SP DSS
WEBS	2x4 SP No.3 *Except*
	7-14,7-17: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 3-9-3, Right 2x6 SP No.2 3-9-3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-9-9 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 8-14, 7-17, 6-17, 4-17

REACTIONS. (size) 2=0-4-0 (req. 0-4-3), 12=0-4-0
Max Horz 2=-249(LC 10)
Max Uplift 2=-136(LC 12), 12=-1(LC 13)
Max Grav 2=3555(LC 1), 12=1989(LC 20)

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

TOP CHORD	2-30=-1672/0, 3-30=-1490/0, 3-4=-4314/251, 4-5=-3763/190, 5-6=-3075/183, 6-31=-3429/291, 7-31=-3383/327, 7-32=-2537/274, 8-32=-2628/239, 8-9=-2435/153, 9-10=-2542/132, 10-11=-2699/146, 11-33=-868/0, 12-33=-913/0
BOT CHORD	2-34=-207/3984, 34-35=-207/3984, 17-35=-207/3984, 16-17=0/1572, 15-16=0/1572, 14-15=0/1572, 14-36=-24/2139, 36-37=-24/2139, 12-37=-24/2139
WEBS	7-19=-86/993, 14-19=-96/1080, 8-14=-432/162, 17-18=-204/2583, 7-18=-197/2506, 6-17=-1033/201, 4-17=-1474/243

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-1 to 2-1-15, Interior(1) 2-1-15 to 18-1-8, Exterior(2) 18-1-8 to 22-4-7, Interior(1) 22-4-7 to 37-1-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
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, with BCDL = 10.0psf.
6) WARNING: Required bearing size at joint(s) 2 greater than input bearing size.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 2 and 1 lb uplift at joint 12.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) N/A
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S)

Continued on page 2

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Edenton, NC 27932

LOAD CASE(S)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-30=-60, 6-7=-60, 7-13=-60, 22-26=-20
   Trapezoidal Loads (plf)
   Vert: 30=-368-to-6=-245
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-30=-50, 6-7=-50, 7-13=-50, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 38-39=-30(F)
   Trapezoidal Loads (plf)
   Vert: 30=-319-to-6=-212
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-30=-20, 6-7=-20, 7-13=-20, 22-26=-40, 38-39=-40(F)
   Trapezoidal Loads (plf)
   Vert: 30=-251-to-6=-159
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=32, 2-30=17, 6-7=12, 7-32=17, 12-32=12, 12-13=8, 22-26=-12
   Horz: 1-2=-44, 2-30=-29, 7-30=-24, 7-32=29, 12-32=24, 12-13=20
   Trapezoidal Loads (plf)
   Vert: 30=32-to-6=24
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=8, 2-30=12, 6-31=12, 7-31=17, 7-33=12, 12-33=17, 12-13=32, 22-26=-12
   Horz: 1-2=-20, 2-31=-24, 7-31=-29, 7-33=24, 12-33=29, 12-13=44
   Trapezoidal Loads (plf)
   Vert: 30=32-to-6=24
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-0, 2-30=-44, 6-7=-44, 7-12=-44, 12-13=-40, 22-26=-20
   Horz: 1-2=-20, 2-7=24, 7-12=-24, 12-13=-20
   Trapezoidal Loads (plf)
   Vert: 30=-291-to-6=-193
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-40, 2-30=-44, 6-7=-44, 7-12=-44, 12-13=-0, 22-26=-20
   Horz: 1-2=20, 2-7=24, 7-12=-24, 12-13=20
   Trapezoidal Loads (plf)
   Vert: 30=-291-to-6=-193
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-4, 2-30=-14, 6-7=-14, 7-12=5, 12-13=1, 22-26=-12
   Horz: 1-2=-8, 2-7=2, 7-12=17, 12-13=13
   Trapezoidal Loads (plf)
   Vert: 30=-39-to-6=-29
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=1, 2-30=5, 6-7=5, 7-12=-14, 12-13=-4, 22-26=-12
   Horz: 1-2=-13, 2-7=-17, 7-12=-2, 12-13=8
   Trapezoidal Loads (plf)
   Vert: 30=-20-to-6=-10
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-27, 2-30=-31, 6-7=-31, 7-12=-11, 12-13=-7, 22-26=-20
   Horz: 1-2=7, 2-7=11, 7-12=9, 12-13=13
   Trapezoidal Loads (plf)
   Vert: 30=-228-to-6=-150
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-7, 2-30=-11, 6-7=-11, 7-12=-31, 12-13=-27, 22-26=-20
   Horz: 1-2=-13, 2-7=-9, 7-12=-11, 12-13=-7
   Trapezoidal Loads (plf)
   Vert: 30=-208-to-6=-130
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=14, 2-30=19, 6-7=9, 7-12=2, 12-13=-3, 22-26=-12
   Horz: 1-2=-26, 2-4=-31, 4-7=-21, 7-12=14, 12-13=9
   Trapezoidal Loads (plf)
   Vert: 30=45-to-4=41, 4=31-to-6=25
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-2=-3, 2-30=2, 6-7=2, 7-10=9, 10-12=19, 12-13=14, 22-26=-12
   Horz: 1-2=-9, 2-7=-14, 7-10=21, 10-12=31, 12-13=26
   Trapezoidal Loads (plf)
   Vert: 30=28-to-6=17
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-2=5, 2-30=9, 6-7=9, 7-12=2, 12-13=-3, 22-26=-12
Horz: 1-2=-17, 2-7=-21, 7-12=14, 12-13=9
Trapezoidal Loads (plf)
Vert: 30=-0-to-6=4

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-30=2, 6-7=2, 7-12=9, 12-13=5, 22-26=-12
Horz: 1-2=-9, 2-7=-14, 7-12=21, 12-13=17
Trapezoidal Loads (plf)
Vert: 30=-8-to-6=-4

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-30=2, 6-7=-7, 7-12=-15, 12-13=-11, 22-26=-20
Horz: 1-2=-26, 2-4=-22, 4-7=-13, 7-12=5, 12-13=9
Trapezoidal Loads (plf)
Vert: 30=-169-to-4=-142, 4=-151-to-6=-110

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-11, 2-30=-15, 6-7=-15, 7-10=-7, 10-12=2, 12-13=6, 22-26=-20
Horz: 1-2=-9, 2-7=-5, 7-10=13, 10-12=22, 12-13=26
Trapezoidal Loads (plf)
Vert: 30=-186-to-6=-118

18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-30=-20, 6-7=-20, 7-13=-20, 22-34=-20, 34-35=-60, 35-36=-20, 36-37=-60, 26-37=-20, 38-39=-40(F)
Trapezoidal Loads (plf)
Vert: 30=-174-to-6=-113

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-55, 2-30=-58, 6-7=-58, 7-12=-44, 12-13=-40, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 38-39=-30(F)
Horz: 1-2=5, 2-7=8, 7-12=6, 12-13=10
Trapezoidal Loads (plf)
Vert: 30=-360-to-6=-240

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-30=-44, 6-7=-44, 7-12=-58, 12-13=-55, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 38-39=-30(F)
Horz: 1-2=-10, 2-7=-6, 7-12=-8, 12-13=-5
Trapezoidal Loads (plf)
Vert: 30=-345-to-6=-225

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-30, 2-30=-34, 6-7=-41, 7-12=-46, 12-13=-43, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 38-39=-30(F)
Horz: 1-2=-20, 2-4=-16, 4-7=-9, 7-12=4, 12-13=7
Trapezoidal Loads (plf)
Vert: 30=-316-to-4=-271, 4=-278-to-6=-211

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-43, 2-30=-46, 6-7=-46, 7-10=-41, 10-12=-34, 12-13=-30, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20
, 38-39=-30(F)
Horz: 1-2=-7, 2-7=-4, 7-10=9, 10-12=16, 12-13=20
Trapezoidal Loads (plf)
Vert: 30=-329-to-6=-217

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-30=-60, 6-7=-60, 7-13=-20, 22-26=-20
Trapezoidal Loads (plf)
Vert: 30=-368-to-6=-245

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-30=-20, 6-7=-20, 7-13=-60, 22-26=-20
Trapezoidal Loads (plf)
Vert: 30=-328-to-6=-205

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-30=-50, 6-7=-50, 7-13=-20, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 38-39=-30(F)
Trapezoidal Loads (plf)
Vert: 30=-319-to-6=-212

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-30=-20, 6-7=-20, 7-13=-50, 22-34=-20, 34-35=-50, 35-36=-20, 36-37=-50, 26-37=-20, 38-39=-30(F)
Trapezoidal Loads (plf)
Vert: 30=-290-to-6=-182

Job	Truss	Truss Type	Qty	Ply	Herring-HawthorneIIB;Lot1 GriffinPointe
GP1-R	C01G	GABLE	1	1	I53635387
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Aug 12 09:45:12 2022 Page 1
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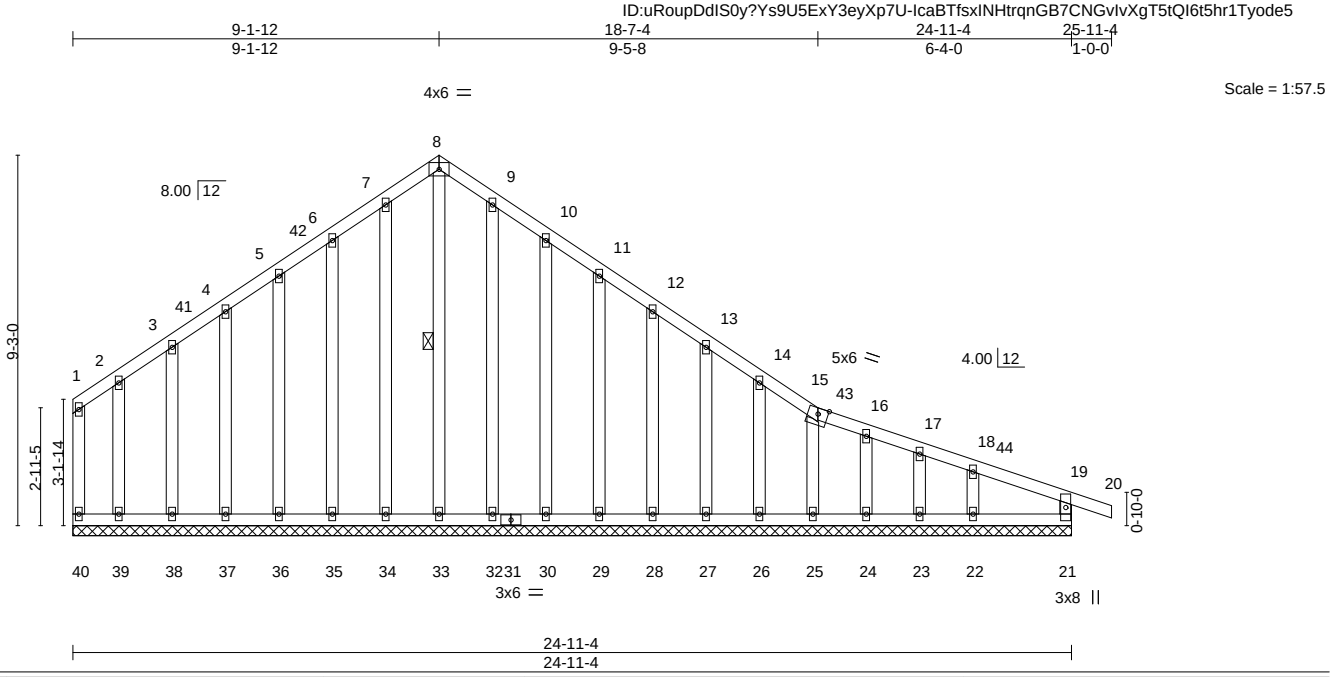

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.00	20	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.00	20	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.01	21	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 210 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3 *Except* 19-21: 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 8-33

REACTIONS. All bearings 24-11-4.
(lb) - Max Horz 40=-219(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 40, 33, 35, 36, 37, 38, 39, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22 except 21=-100(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 40, 21, 33, 34, 35, 36, 37, 38, 39, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-1-12, Exterior(2) 9-1-12 to 13-1-12, Interior(1) 13-1-12 to 25-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 40, 33, 35, 36, 37, 38, 39, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22 except (jt=lb) 21=100.

August 14,2022

ENGINEERING BY
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Job	Truss	Truss Type	Qty	Ply	Herring-HawthorneIIB;Lot1 GriffinPointe
GP1-R	C02	SPECIAL	1	1	I53635388
					Job Reference (optional)

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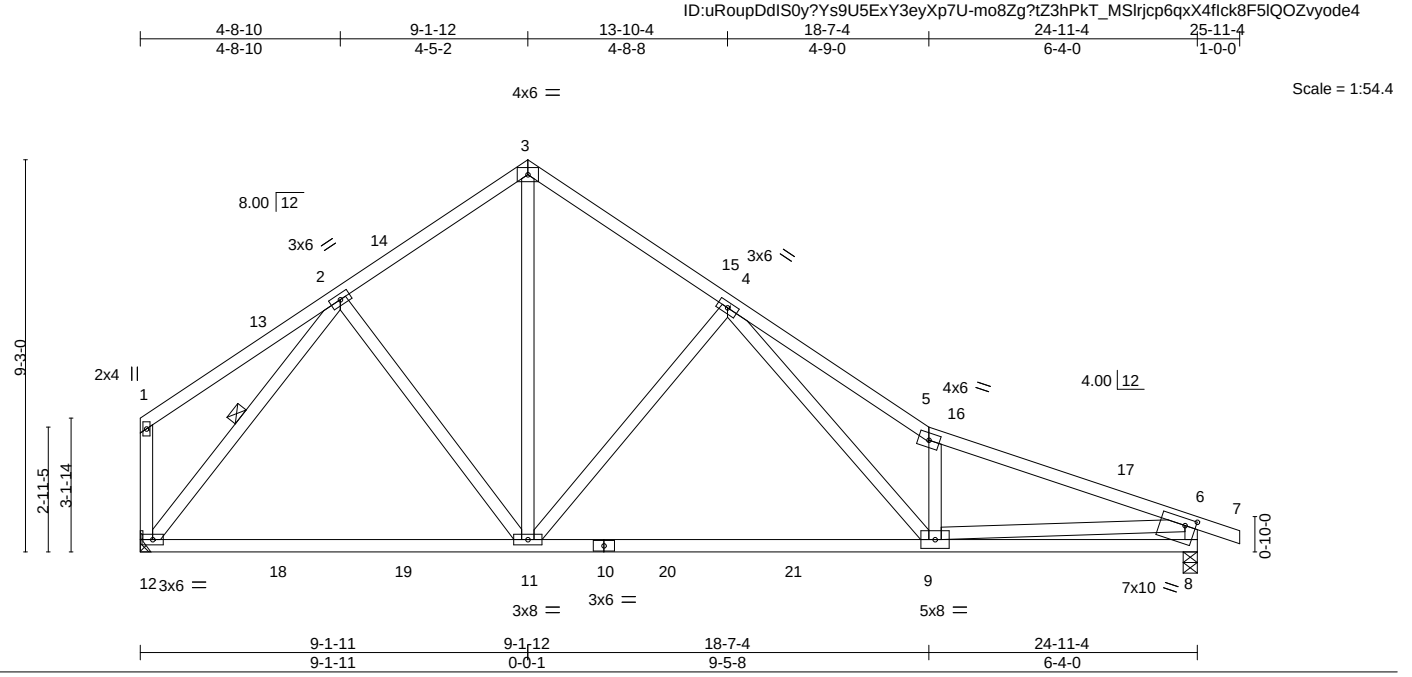

Plate Offsets (X,Y)-- [8:0-3-0,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.18	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.37	9-11	>804	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.05	9-11	>999	240	Weight: 154 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
6-8: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-12

REACTIONS. (size) 12=Mechanical, 8=0-4-0
Max Horz 12=-219(LC 8)
Max Uplift 8=-6(LC 13)
Max Grav 12=984(LC 1), 8=1056(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-869/110, 3-4=-880/116, 4-5=-2204/109, 5-6=-1929/29, 6-8=-998/106
BOT CHORD 11-12=0/717, 9-11=0/1040, 8-9=-79/478
WEBS 2-12=-961/52, 3-11=-51/678, 4-11=-609/117, 4-9=-15/1162, 5-9=-867/106, 6-9=0/1370

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-1-12, Exterior(2) 9-1-12 to 13-4-10, Interior(1) 13-4-10 to 25-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * 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.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.

August 14,2022

ENGINEERING BY
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HawthorneIIB;Lot1 GriffinPointe
GP1-R	D01G	GABLE	1	1	I53635389
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Aug 12 09:45:14 2022 Page 1
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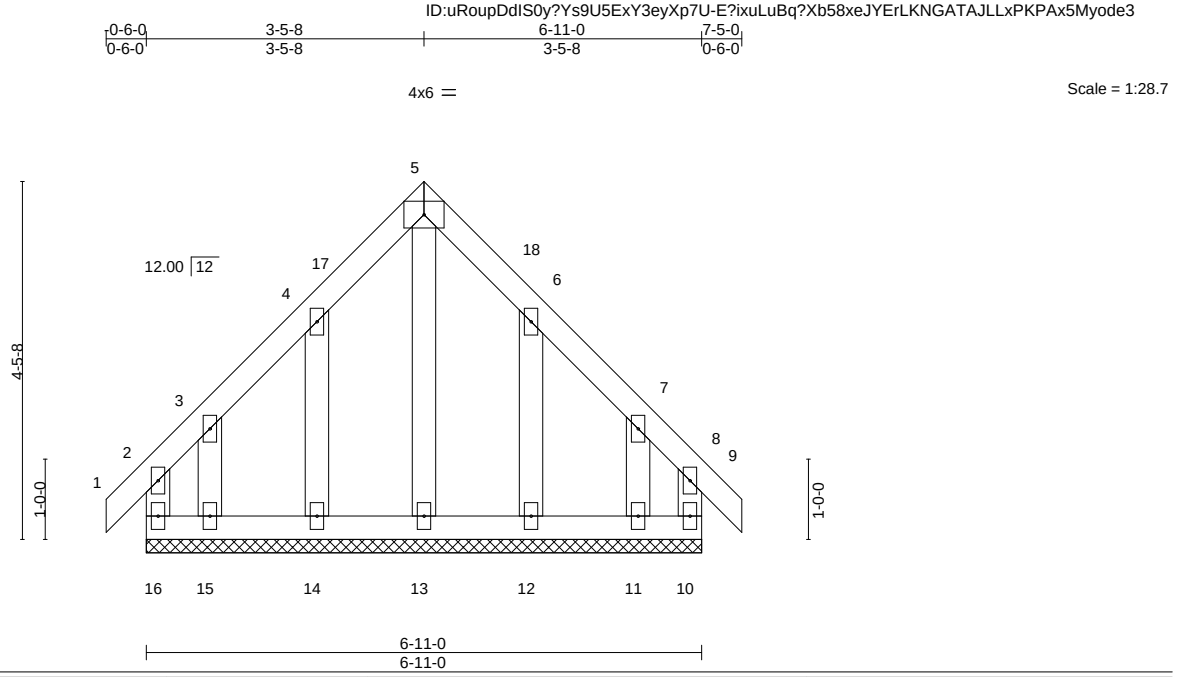

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	-0.00	8	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	8	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 46 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.

REACTIONS. All bearings 6-11-0.
(lb) - Max Horz 16=101(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-6-0 to 2-6-0, Interior(1) 2-6-0 to 3-5-8, Exterior(2) 3-5-8 to 7-5-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.

August 14,2022

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

Job	Truss	Truss Type	Qty	Ply	Herring-HawthorneIIB;Lot1 GriffinPointe
GP1-R	D02	COMMON	1	1	I53635390
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Aug 12 09:45:15 2022 Page 1
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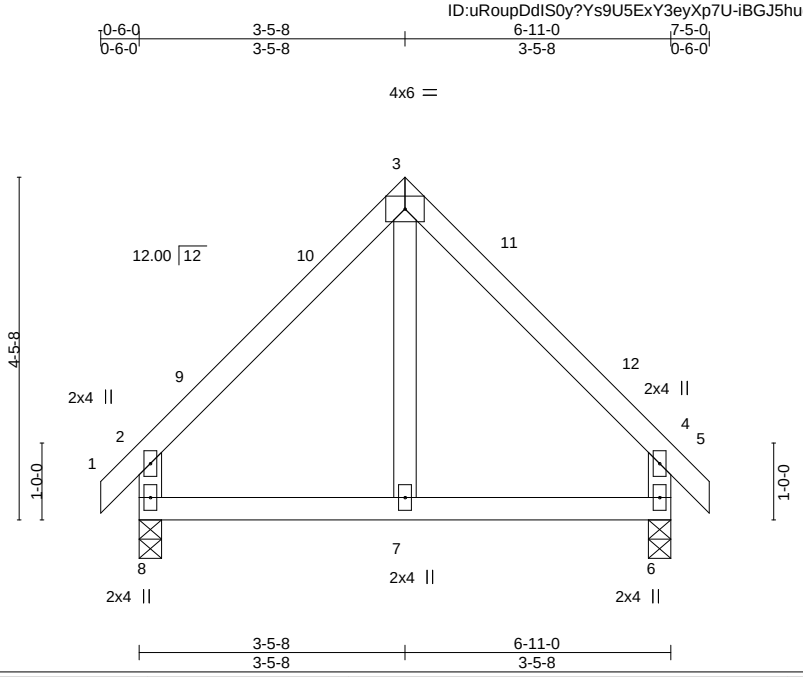

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.00	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR		Wind(LL)	-0.00	7	>999	240	Weight: 35 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-7: 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.

REACTIONS. (size) 8=0-3-8, 6=0-3-8
Max Horz 8=101(LC 11)
Max Uplift 8=-5(LC 12), 6=-5(LC 13)
Max Grav 8=304(LC 1), 6=304(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-264/88, 4-6=-264/88

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-6-0 to 2-6-0, Interior(1) 2-6-0 to 3-5-8, Exterior(2) 3-5-8 to 7-5-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * 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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.

August 14,2022

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

Job	Truss	Truss Type	Qty	Ply	Herring-HawthorneIIB;Lot1 GriffinPointe
GP1-R	D03	COMMON	1	1	I53635391
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Aug 12 09:45:16 2022 Page 1
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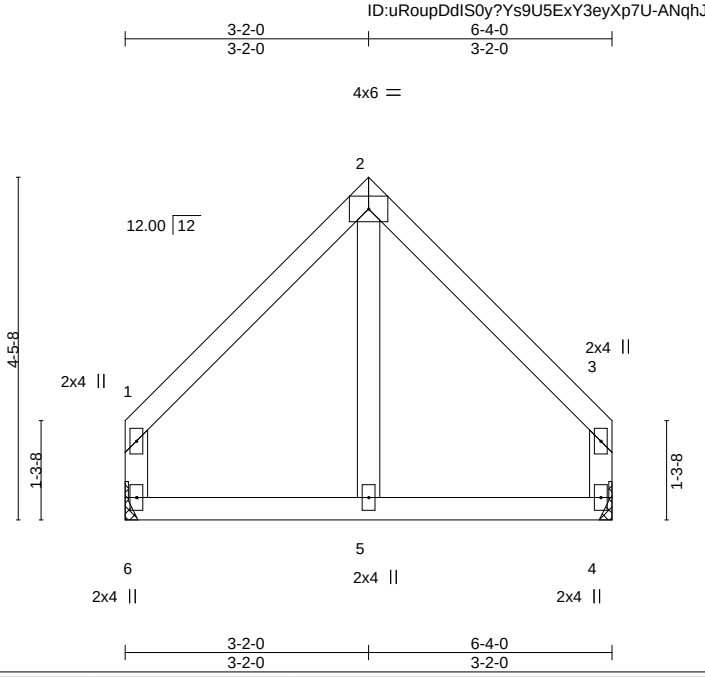

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.01	5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MR		Wind(LL)	-0.00	5-6	>999	240	Weight: 32 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
2-5: 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.

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Horz 6=-91(LC 8)
Max Uplift 6=-6(LC 13), 4=-6(LC 12)
Max Grav 6=242(LC 1), 4=242(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * 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.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.

August 14,2022

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

Job	Truss	Truss Type	Qty	Ply	Herring-HawthorneIIB;Lot1 GriffinPointe
GP1-R	E01G	GABLE	1	1	I53635392
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Aug 12 09:45:17 2022 Page 1
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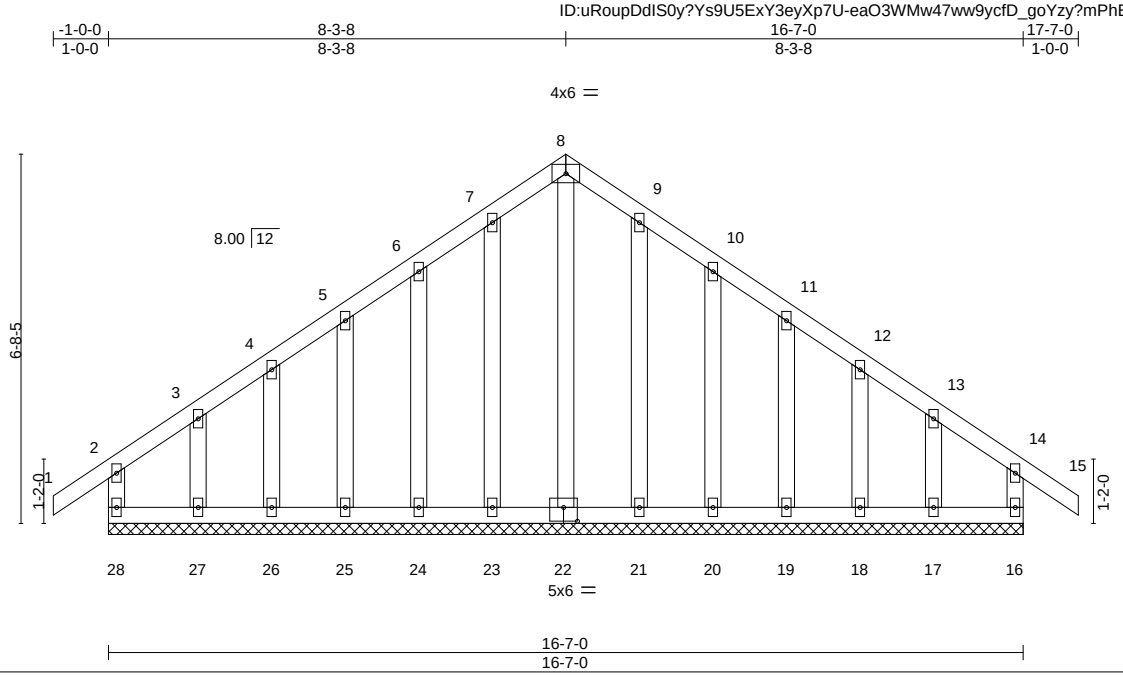

Plate Offsets (X,Y)-- [22:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	15	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 121 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 6-0-0 oc bracing.

REACTIONS. All bearings 16-7-0.
(lb) - Max Horz 28=149(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 28, 16, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 28, 16, 22, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 8-3-8, Corner(3) 8-3-8 to 11-3-8, Exterior(2) 11-3-8 to 17-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 16, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17.

August 14,2022

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HawthorneIIB;Lot1 GriffinPointe
GP1-R	J01G	GABLE	1	1	I53635393
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Aug 12 09:45:18 2022 Page 1
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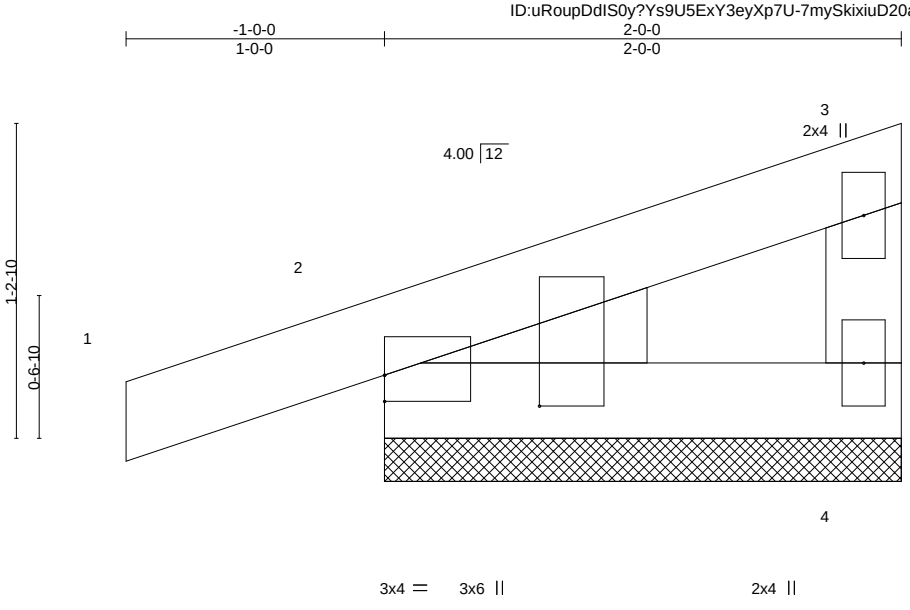

Plate Offsets (X,Y)-- [2:0-0-0,0-1-3], [2:0-1-7,0-7-3]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 10 lb	FT = 20%

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

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

REACTIONS. (size) 2=2-0-0, 4=2-0-0
Max Horz 2=31(LC 9)
Max Uplift 2=-40(LC 8), 4=-6(LC 12)
Max Grav 2=150(LC 1), 4=58(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 2-0-0 oc.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

August 14,2022

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Herring-HawthorneIIB;Lot1 GriffinPointe
GP1-R	J02	MONO TRUSS	1	1	I53635394
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Aug 12 09:45:19 2022 Page 1
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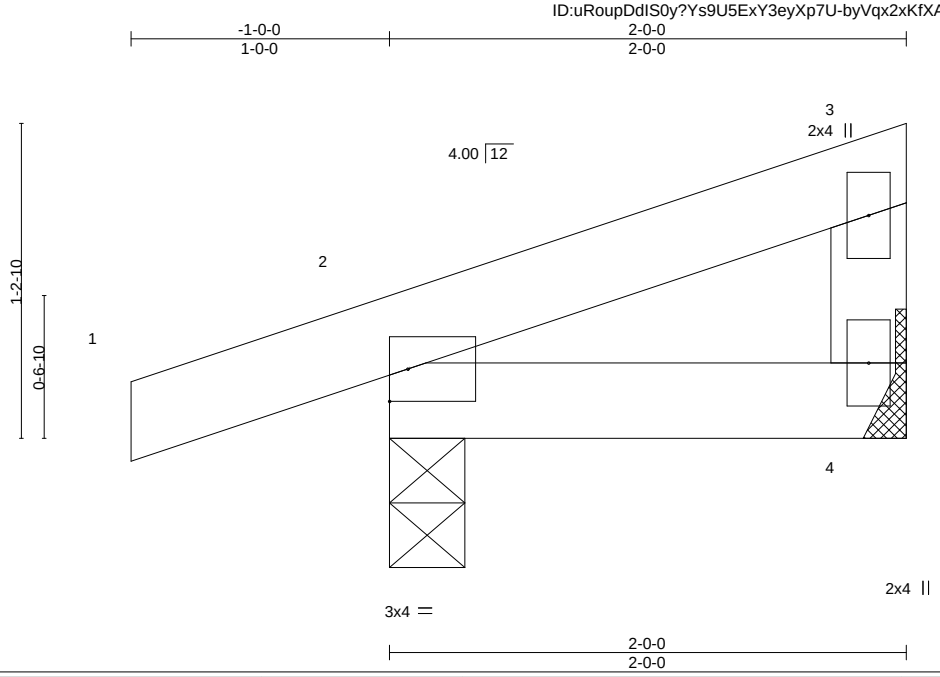

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.00	7	>999	240	Weight: 9 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 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=Mechanical
Max Horz 2=32(LC 11)
Max Uplift 2=-40(LC 8), 4=-6(LC 12)
Max Grav 2=150(LC 1), 4=58(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

August 14,2022

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

Job	Truss	Truss Type	Qty	Ply	Herring-HawthorneIIB;Lot1 GriffinPointe
GP1-R	P03G	GABLE	1	1	I53635395
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Aug 12 09:45:20 2022 Page 1
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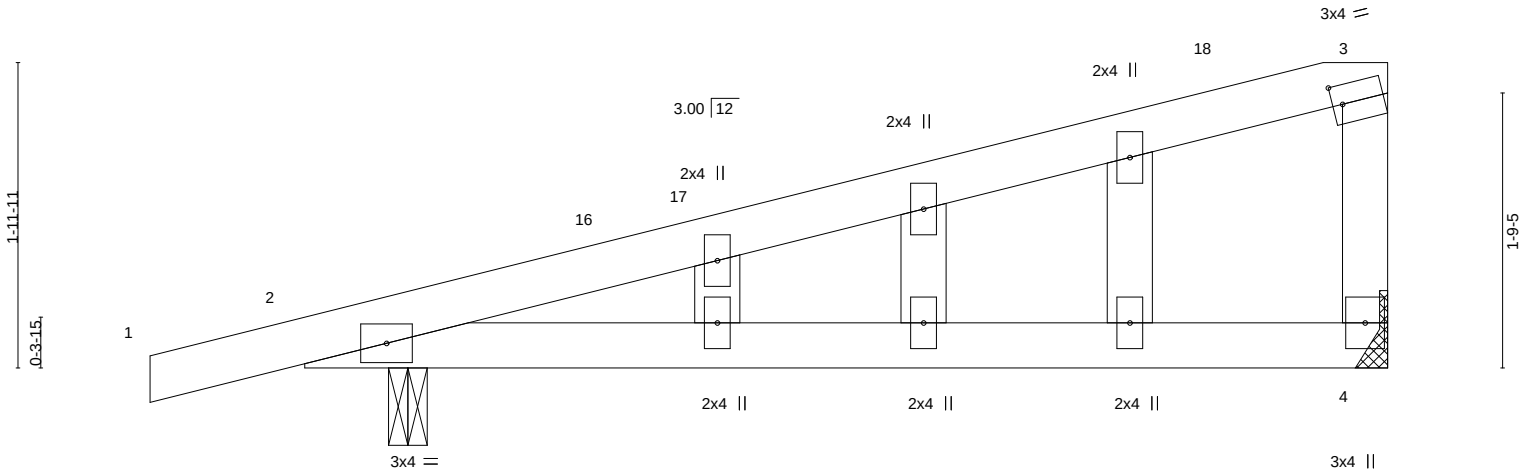

0-6-8 0-6-8 | 7-0-0 6-5-8

Plate Offsets (X,Y)-- [3:0-0-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.04	4-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.10	4-15	>806	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	4-15	>999	240	Weight: 28 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-0
Max Horz 2=60(LC 11)
Max Uplift 4=-88(LC 8), 2=-56(LC 8)
Max Grav 4=1041(LC 1), 2=368(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-956/286

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Gable studs spaced at 1-4-0 oc.
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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 822 lb down and 197 lb up at 6-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-11=-20, 1-3=-60
Concentrated Loads (lb)
Vert: 3=-800

August 14,2022

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

Job	Truss	Truss Type	Qty	Ply	Herring-HawthorneIIB;Lot1 GriffinPointe
GP1-R	P04	MONO TRUSS	1	1	I53635396
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Fri Aug 12 09:45:21 2022 Page 1
ID:uRoupDdIS0y?Ys9U5ExY3eyXp7U-XLdaMkzaB8QbRDz_DWsU7oAKzIUzUWIRx?MpqSyoddy

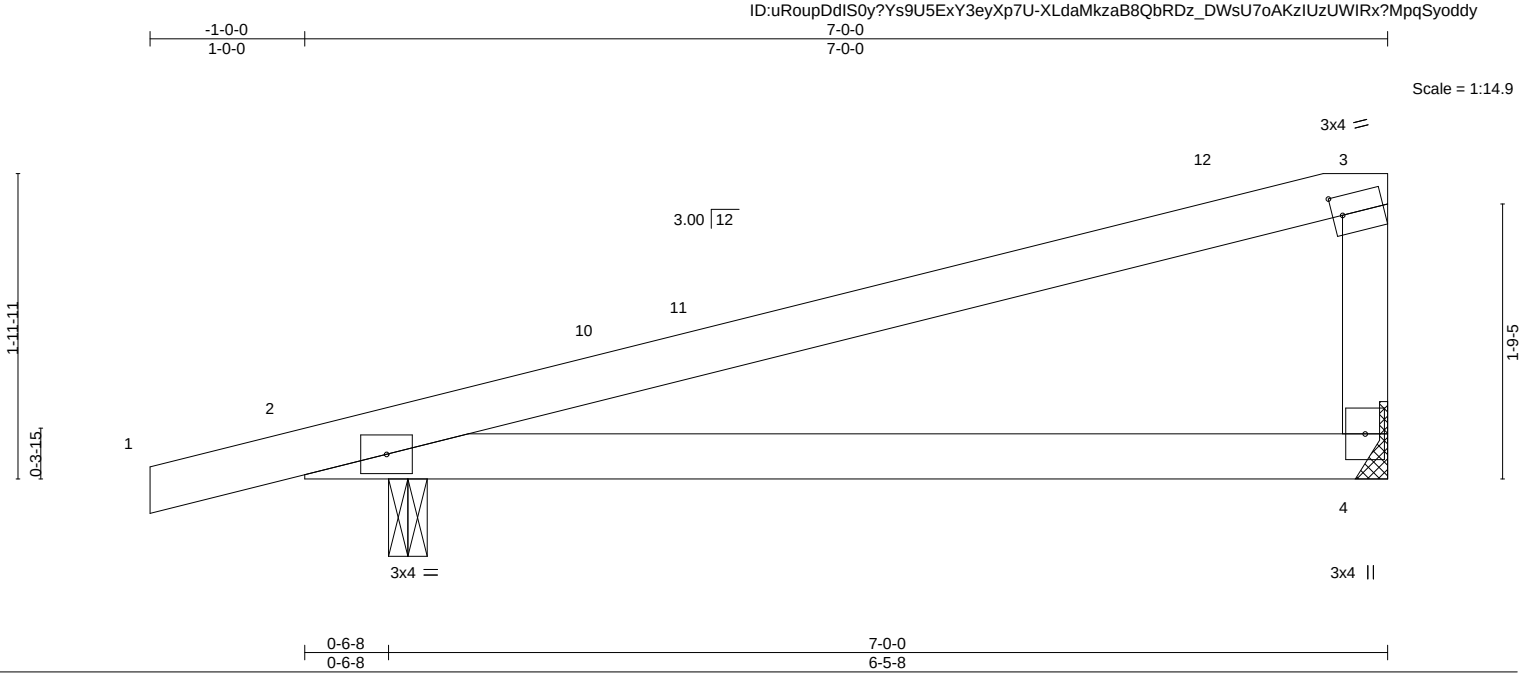

Plate Offsets (X,Y)-- [3:0-0-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.04	4-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.10	4-9	>806	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	4-9	>999	240	Weight: 25 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-0
Max Horz 2=60(LC 11)
Max Uplift 4=-88(LC 8), 2=-56(LC 8)
Max Grav 4=1041(LC 1), 2=368(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-956/286

NOTES-
1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 822 lb down and 197 lb up at 6-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
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Concentrated Loads (lb)
Vert: 3=-800

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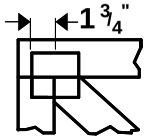
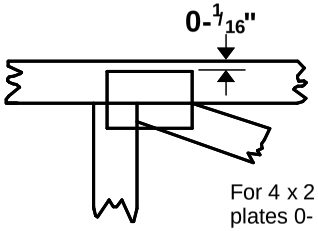
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

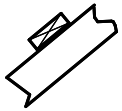
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

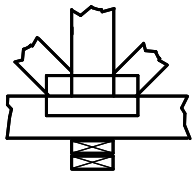
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

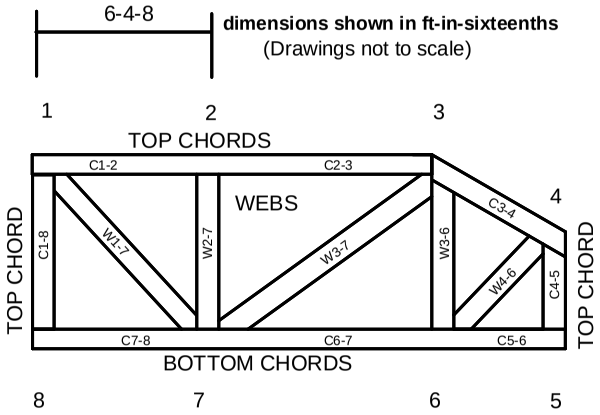


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

MiTek 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/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.
21. The design does not take into account any dynamic or other loads other than those expressly stated.