

RE: J1122-5793

Lot 53 Liberty Meadows

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Benjamin Stout Real Estate Project Name: J1122-5793 Lot/Block: 53 Model: Cypress

Address: 61 Solomon Drive Subdivision: Liberty Meadows

City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special **Loading Conditions):**

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.3

Wind Code: N/A Wind Speed: N/A mph Floor Load: 55.0 psf Roof Load: N/A psf

This package includes 14 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E16497613	ET1	12/23/2021
2	E16497614	ET2	12/23/2021
3	E16497615	ET3	12/23/2021
4	E16497616	ET4	12/23/2021
5	E16497617	ET5	12/23/2021
6	E16497618	ET6	12/23/2021
7	E16497619	F1	12/23/2021
8	E16497620	F1A	12/23/2021
9	E16497621	F2	12/23/2021
10	E16497622	F3	12/23/2021
11	E16497623	F3A	12/23/2021
12	E16497624	F4	12/23/2021
13	E16497625	F5	12/23/2021
14	E16497626	F6	12/23/2021

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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



December 23, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 53 Liberty Meadows
					E16497613
J1122-5793	ET1	GABLE	1	1	
					Joh Reference (ontional)

0₁1₃8

Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:24 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-iGkzzM1frJKJM1aSZerbvZhesUoo8jQlGfJuPvy66pr

0-1-0

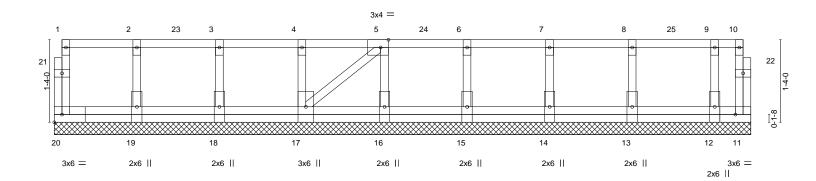
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

10-8-0

11-3-0

Scale = 1:18.6



L	1-4-0	2-0-0	4-0-0	J-4-0	1 0-0-0		0-0-0		9-4-0	10-0-0	11-3-0
	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1	1-4-0	1	1-4-0	1-4-0	0-7-0
Plate	Offsets (X,Y)	[5:0-1-8,Edge]									
LOAD	DING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defI	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 0.00	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	17	n/a	n/a		
BCDL	5.0	Code IRC2015/	ΓPI2014	Matrix-S						Weight: 69 lb	FT = 20%F, 11%E
										-	

6-8-0

BRACING-

TOP CHORD

BOT CHORD

8-0-0

except end verticals.

5-4-0

LUMBER-TOP CHORD 2x4 SP No 1(flat)

2-8-0

BOT CHORD 2x4 SP No.1(flat) WFBS

2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat)

1_/_0

REACTIONS. All bearings 11-3-0.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 11 Max Grav All reactions 250 lb or less at joint(s) 20, 19, 18, 17, 16, 15, 14, 13, 12

1-0-0

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

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
- 7) 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.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 11-20=-10, 1-10=-100

Concentrated Loads (lb)

Vert: 4=-26 7=-26 23=-26 24=-26 25=-26



December 23,2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job	Truss	Truss Type	Qty	Ply	Lot 53 Liberty Meadows
					E16497614
J1122-5793	ET2	GABLE	1	1	
					Joh Reference (ontional)

0-11-8

Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:25 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-ASILAi2HcdSA_B9f7MMqSmDqnu8ztAiSVJ3RyLy66pq

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

8ـــــــ

Scale = 1:33.1

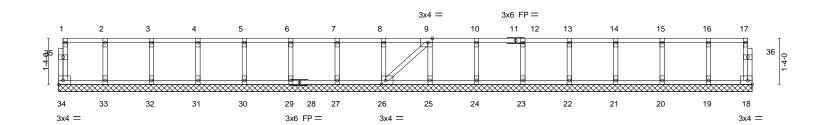


Plate Offsets (X,Y)	-4-0 ' 1-4-0 ' 1-4-0 ' [9:0-1-8,Edge], [26:0-1-8,Edge]	I-4-0 ' 1-4-0 ' 1-4-0	1-4-0 1-4-0	1-4-0	1-4-0 1-4-0	' 1-4-0 ' 1-4	-0 ' 1-3-0 '
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.06 BC 0.01 WB 0.03 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 18	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 90 lb	GRIP 244/190 FT = 20%F, 11%E

BRACING-

TOP CHORD

1-4-0 , 2-8-0 , 4-0-0 , 5-4-0 , 6-8-0 , 8-0-0 , 9-4-0 , 10-8-0 , 12-0-0 , 13-4-0 , 14-8-0 , 16-0-0 , 17-4-0 , 18-8-0 , 19-11-0 ,

LUMBER-TOP CHORD 2x4 SP No 1(flat)

BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WFBS **OTHERS**

BOT CHORD 2x4 SP No.3(flat)

REACTIONS. All bearings 19-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 31, 30, 29, 27, 26, 25, 24, 23, 22, 21, 20,

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

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 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.



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Job	Truss	Truss Type	Qty	Ply	Lot 53 Liberty Meadows
					E16497615
J1122-5793	ET3	GABLE	1	1	
					Inh Reference (ontional)

0-1-8

Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:26 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-efskO23wNxa1cKkrg3t3__m?XIUCcdybkzo?Uny66pp

Scale = 1:14.5

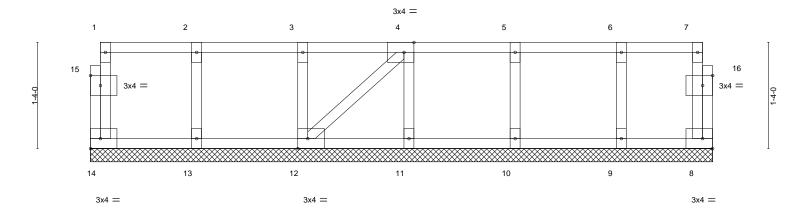


Plate Offsets (X,Y)	Plate Offsets (X,Y) [4:0-1-8,Edge], [12:0-1-8,Edge], [15:0-1-8,0-1-8], [16:0-1-8,0-1-8]									
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES GRIP					
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) n/a -	n/a 999	MT20 244/190					
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a -	n/a 999						
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 8	n/a n/a						

BRACING-

4-0-0

1-4-0

BCLL 0.0 Rep Stress Incr WB 0.03 Horz(CT) Code IRC2015/TPI2014 **BCDL** 5.0 Matrix-P

2-8-0

1-4-0

Weight: 39 lb FT = 20%F, 11%E

6-8-0

1-4-0

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

1-4-0

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SP No.1(flat) TOP CHORD BOT CHORD 2x4 SP No.1(flat)

WFBS

2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat)

REACTIONS. All bearings 7-9-12.

(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-

LUMBER-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

1-4-0

1-4-0

- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 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.



7-9-12

1-1-12

December 23,2021

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Job Truss Truss Type Qty Ply Lot 53 Liberty Meadows E16497616 J1122-5793 ET4 **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:26 2021 Page 1 Comtech, Inc. ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-efskO23wNxa1cKkrg3t3__m?hIUDcd0bkzo?Uny66pp 0-1-8 1 3x4 || 2 1.5x3 || 3 4 1.5x3 || Scale = 1:9.4 9 3x4 = 8 6 5 3x4 II 3x4 = 1.5x3 || 3x4 =0-10-0 2-2-0 0-10-0 1-4-0 0-11-12 Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-1-8,Edge], [7:0-1-8,Edge], [8:Edge,0-1-8], [9:0-1-8,0-1-8]

LOADIN	G (psf)	SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC	0.05	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	5	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014	Matrix	x-P						Weight: 21 lb	FT = 20%F, 11%E

BRACING-TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.1(flat) 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.3(flat) WFBS

OTHERS 2x4 SP No.3(flat)

REACTIONS. All bearings 3-1-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 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.
- 6) CAUTION, Do not erect truss backwards.



Structural wood sheathing directly applied or 3-1-12 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

December 23,2021

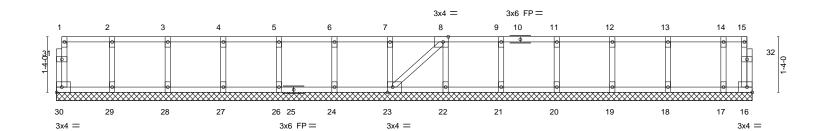


Job	Truss	Truss Type	Qty	Ply	Lot 53 Liberty Meadows
14400 5700	ETE	CARLE			E16497617
J1122-5793	E15	GABLE	1	1	Joh Reference (entional)

| Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:27 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-6rQ6bN3Y8EiuDUJ1EnOIXBJAFiqRL3ClydYY0Dy66po

0-1-8

Scale = 1:27.6



-	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	-	1-4-0	1-4-0	1-4-0	1-4-0 0-8-4
Plate O	fsets (X,Y)		dge], [23:0-1-8		1-4-0	1-4-0	1-4-0	1-4-0		1-4-0	1-4-0	1-4-0	1-4-0 0-0-4
LOADIN	IG (psf)	SPA	ACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plat	e Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lum	nber 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	16	n/a	n/a		
BCDL	5.0	Cod	le IRC2015/T	PI2014	Matri	x-S						Weight: 77 lb	FT = 20%F, 11%E
LUMBE	R-						BRACING-						

9-4-0

10-8-0

OTHERS 2x4 SP No.3(flat)

2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WFBS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

14-8-0

16-0-0

.16-8-4

except end verticals.

12-0-0

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-8-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 26, 24, 23, 22, 21, 20, 19, 18, 17

6-8-0

8-0-0

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

4-0-0

NOTES-

TOP CHORD

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 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.



December 23,2021

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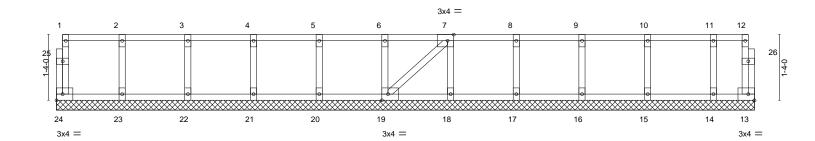


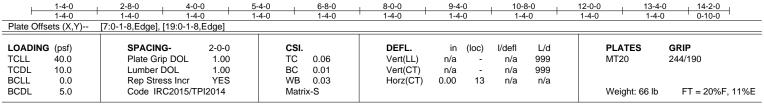
Job	Truss	Truss Type	Qty	Ply	Lot 53 Liberty Meadows
					E16497618
J1122-5793	ET6	GABLE	1	1	
					Joh Reference (ontional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:27 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-6rQ6bN3Y8EiuDUJ1EnOIXBJAFiqRL3ClydYY0Dy66po

0₁1₈

0₁1₈ Scale = 1:23.4





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

REACTIONS. All bearings 14-2-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 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.



December 23,2021





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Job	Truss	Truss Type	Qty	Ply	Lot 53 Liberty Meadows
					E16497619
J1122-5793	F1	Floor	4	1	
					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:29 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-3EXs035ogsycToTQMCRmccOlkVJJpo92Qx1f56y66pm

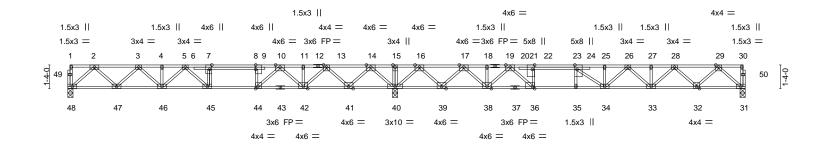
0-1-8

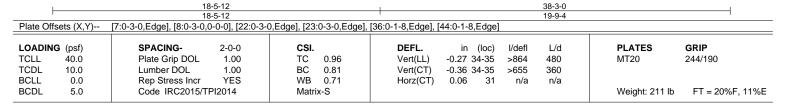
HI 1-3-0

2-5-12

2-3-4 1-6-0

0-1-8 Scale = 1:65.1





LUMBER-TOP CHORD

2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing

REACTIONS. (size) 48=0-3-8, 40=0-3-8, 31=0-3-8

Max Grav 48=871(LC 3), 40=2516(LC 1), 31=936(LC 4)

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

TOP CHORD 2-3=-1560/0, 3-4=-2546/0, 4-5=-2546/0, 5-7=-2871/114, 7-8=-2871/105, 8-10=-2888/105, 10-11=-1673/754, 11-13=-1673/754, 13-14=-128/1407, 14-15=0/3309,

15-16=0/3309. 16-17=-64/1187. 17-18=-1767/545. 18-20=-1767/545. 20-22=-3258/0.

22-23=-3236/0, 23-25=-3338/0, 25-26=-3338/0, 26-27=-2818/0, 27-28=-2818/0,

28-29=-1704/0

BOT CHORD 47-48=0/939, 46-47=0/2157, 45-46=0/2787, 44-45=-105/2871, 42-44=-508/2171,

41-42=-1069/990, 40-41=-1989/0, 39-40=-1925/0, 38-39=-852/1004, 36-38=-294/2360, 35-36=0/3236, 34-35=0/3236, 33-34=0/3146, 32-33=0/2363, 31-32=0/1015

2-48=-1248/0, 2-47=0/864, 3-47=-830/0, 3-46=-14/529, 14-40=-1757/0, 14-41=0/1364,

13-41=-1322/0, 13-42=0/1058, 10-42=-801/0, 10-44=0/1338, 5-46=-328/67,

5-45=-530/142, 7-45=-88/295, 8-44=-798/0, 29-31=-1348/0, 29-32=0/959, 28-32=-916/0,

28-33=0/619, 26-33=-445/18, 26-34=-20/262, 16-40=-1842/0, 16-39=0/1446, 17-39=-1403/0, 17-38=0/1136, 20-38=-907/0, 20-36=0/1484, 22-36=-884/0,

25-34=-351/0, 23-34=-99/656

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x6 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 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.



December 23,2021



Job	Truss	Truss Type	Qty	Ply	Lot 53 Liberty Meadows
					E16497620
J1122-5793	F1A	Floor	1	1	
					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:31 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-?cfdRl72CTCJi6doTcTEh1Th7J0hHjGKtFWm9?y66pk

0-1-8

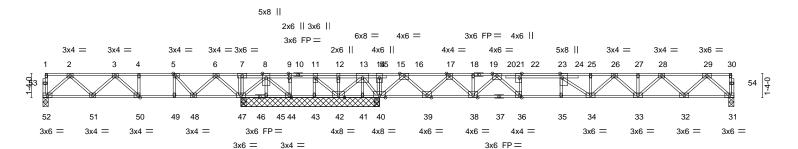
HI-3-0

1-10-0 1-0-0

1-2-8 1-2-8 1-2-8 1-2-8 0-9-0

2-1-8 1-6-0

0-1-8 Scale: 3/16"=1



			1100	10 1 0				00 0 0		
		10-11-8	3-10-0	3-10-0	1			19-7-8		ı
Plate Offs	ets (X,Y)	[5:0-1-8,Edge], [9:0-3-0,Edge]	, [22:0-3-0,Edge], [23:0-3-0,Edge], [36	6:0-1-8,Edge], [44:0-1-8,Edge]	, [50:0-1-	8,Edge]		
LOADING	(psf)	SPACING- 2-0)-0 C \$	SI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL 1.	00 TC	0.71	Vert(LL)	-0.23 34-35	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL 1.	00 BC	0.75	Vert(CT)	-0.31 34-35	>746	360		
BCLL	0.0	Rep Stress Incr Y	ES W	3 0.67	Horz(CT)	0.04 31	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI201	4 Ma	atrix-S					Weight: 221 lb	FT = 20%F, 11%E

18-7-8

LUMBER-TOP CHORD

2x4 SP No.1(flat) 2x4 SP No.1(flat)

10-11-8

BOT CHORD WFBS 2x4 SP No.3(flat) **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

38-3-0

except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-8-0 except (jt=length) 52=0-3-8, 31=0-3-8.

(lb) -Max Uplift All uplift 100 lb or less at joint(s) except 41=-793(LC 4), 42=-419(LC 4), 43=-275(LC 4)

14-9-8

Max Grav All reactions 250 lb or less at joint(s) 42, 43, 45 except 52=560(LC 3), 47=830(LC 3), 47=764(LC 1),

40=3094(LC 7), 40=3081(LC 1), 44=399(LC 7), 31=878(LC 4)

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

TOP CHORD 2-3=-901/0, 3-4=-1142/0, 4-5=-1142/0, 5-6=-768/0, 6-7=-96/503, 7-8=-106/487,

8-9=0/380, 9-11=0/380, 11-12=0/792, 12-13=0/792, 13-14=0/3016, 14-16=0/3018, 16-17=0/638, 17-18=-1159/0, 18-20=-1159/0, 20-22=-2752/0, 22-23=-2728/0, $23-25 = -2972/0, \ 25-26 = -2972/0, \ 26-27 = -2570/0, \ 27-28 = -2570/0, \ 28-29 = -1579/0$

BOT CHORD 51-52=0/591, 50-51=0/1157, 49-50=0/1142, 48-49=0/1142, 47-48=0/420, 45-47=-318/0,

44-45=-318/0, 43-44=-380/0, 42-43=-380/0, 41-42=-1769/0, 40-41=-1769/0,

39-40=-1647/0, 38-39=0/350, 36-38=0/1799, 35-36=0/2728, 34-35=0/2728, 33-34=0/2834,

32-33=0/2177, 31-32=0/949

WEBS 14-40=-299/0, 2-52=-784/0, 2-51=0/432, 3-51=-356/0, 6-47=-837/0, 6-48=0/551,

5-48=-571/0, 13-40=-1985/0, 13-41=0/771, 11-43=-60/286, 29-31=-1261/0, 29-32=0/876,

28-32=-833/0, 28-33=0/534, 26-33=-358/0, 16-40=-1830/0, 16-39=0/1403, 17-39=-1366/0, 17-38=0/1101, 20-38=-871/0, 20-36=0/1328, 22-36=-794/0, 25-34=-290/12, 23-34=-215/498, 13-42=0/1350, 8-44=-324/0, 11-42=-595/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 793 lb uplift at joint 41, 419 lb uplift at joint 42 and 275 lb uplift at joint 43.
- 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.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 31-52=-10, 1-30=-100



December 23,2021

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Design Valid to its 80 mly with win New Commercials. This design is based only upon parameters shown, and is for an individual orusining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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Job		Truss	Truss Type	Qty	Ply	Lot 53 Liberty Meadows
						E16497620
J1122-579	3	F1A	Floor	1	1	
						Job Reference (optional)

Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MTek Industries, Inc. Thu Dec 23 10:04:31 2021 Page 2 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-?cfdRl72CTCJi6doTcTEh1Th7J0hHjGKtFWm9?y66pk

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 10=-69 12=-69 8=-69 55=-69



818 Soundside Road Edenton, NC 27932

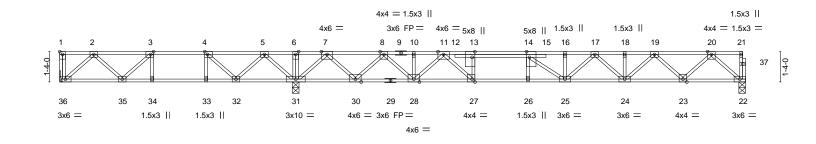
Job	Truss	Truss Type	Qty	Ply	Lot 53 Liberty Meadows
14400 5700	F0	_			E16497621
J1122-5793	F2	Floor	2	1	Job Reference (optional)

> 1-3-0 2-3-0

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:32 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-TpD?e57gynKAKFC?1K_TEF0swjKN0B9U6vFJiRy66pj

2-3-4 | 1-6-0

Scale = 1:50.6



		10-4-8		· ·			1	9-9-4			1
Plate Of	ffsets (X,Y)	[1:Edge,0-1-8], [3:0-1-8,E	dge], [4:0-1-8	,Edge], [13:0-3-0,	Edge], [1	14:0-3-0,Edge], [2	7:0-1-8,Edge]				
LOADIN	NG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC 0.7	7	Vert(LL)	-0.29 25-26	>821	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC 0.8	5	Vert(CT)	-0.39 25-26	>604	360		
BCLL	0.0	Rep Stress Incr	YES	WB 0.6	3	Horz(CT)	0.06 22	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matrix-S						Weight: 163 lb	FT = 20%F, 11%E

LUMBER-TOP CHORD

2x4 SP No.1(flat) 2x4 SP No.1(flat)

BOT CHORD WFBS

2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-1 oc purlins,

except end verticals.

30-1-12

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

36=Mechanical, 31=0-3-8, 22=0-3-8 (size)

10-4-8

Max Uplift 36=-26(LC 4)

Max Grav 36=490(LC 3), 31=1947(LC 1), 22=989(LC 7)

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

TOP CHORD 2-3=-721/150, 3-4=-860/441, 4-5=-419/882, 5-6=0/1852, 6-7=0/1852, 7-8=-806/0,

8-10=-2401/0, 10-11=-2401/0, 11-13=-3738/0, 13-14=-3719/0, 14-16=-3669/0,

16-17=-3669/0, 17-18=-3045/0, 18-19=-3045/0, 19-20=-1819/0

BOT CHORD 35-36=-18/514, 34-35=-441/860, 33-34=-441/860, 32-33=-441/860, 31-32=-1193/33,

 $30 - 31 = -576/0,\ 28 - 30 = 0/1695,\ 27 - 28 = 0/2937,\ 26 - 27 = 0/3719,\ 25 - 26 = 0/3719,\ 24 - 25 = 0/3432,$

23-24=0/2533, 22-23=0/1075

WEBS $2 - 36 = -685/24, \ 2 - 35 = -183/287, \ 3 - 35 = -189/395, \ 5 - 31 = -990/0, \ 5 - 32 = 0/752, \ 4 - 32 = -948/0, \ 5 - 31 = -990/0, \ 5 - 32 = 0/752, \ 4 - 32 = -948/0, \ 5 - 31 = -990/0, \ 5 - 32 = 0/752, \ 4 - 32 = -948/0, \ 5 - 31 = -990/0, \ 5 - 32 = 0/752, \ 4 - 32 = -948/0, \ 5 - 31 = -990/0, \ 5 - 32 = 0/752, \ 4 - 32 = -948/0, \ 5 - 31 = -990/0, \ 5 - 32 = 0/752, \ 4 - 32 = -948/0, \ 5 - 31 = -990/0, \ 5 - 32 = 0/752, \ 4 - 32 = -948/0, \ 5 - 31 = -990/0, \ 5 - 32 = 0/752, \ 4 - 32 = -948/0, \ 5 - 31 = -990/0, \ 5 - 32 = 0/752, \ 4 - 32 = -948/0, \ 5 - 31 = -990/0, \ 5 - 32 = 0/752, \ 5 - 31 = -990/0, \ 5 - 32 = 0/752, \ 5 - 31 = -990/0, \ 5 - 32 = 0/752, \ 5 - 31 = -990/0, \ 5 - 32 = 0/752, \ 5 - 31 = -990/0, \ 5 - 32 = 0/752, \ 5 - 31 = -990/0, \ 5 - 32 = 0/752, \ 5 - 31 = -990/0, \ 5$ 4-33=0/301, 3-34=-264/0, 7-31=-1699/0, 7-30=0/1314, 8-30=-1280/0, 8-28=0/1005,

11-28=-774/0, 11-27=0/1261, 13-27=-758/0, 20-22=-1428/0, 20-23=0/1035,

19-23=-993/0, 19-24=0/697, 17-24=-526/0, 17-25=0/322, 16-25=-250/79,

14-25=-439/328

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 36.
- 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.
- 7) CAUTION, Do not erect truss backwards.



December 23,2021

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Job	Truss	Truss Type	Qty	Ply	Lot 53 Liberty Meadows
					E16497622
J1122-5793	F3	Floor	1	1	
					Job Reference (optional)

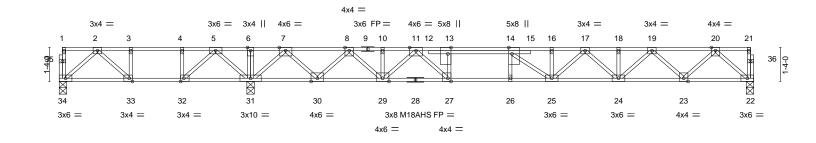
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:33 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-x?nNsR8Jj4S1xPmBb1VimSZ_I7ghleUdLZ?sEty66pi

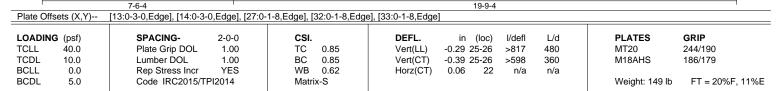
0-1-8

H|-1-3-0 1-10-12



0-1-8 Scale = 1:45.3





LUMBER-TOP CHORD

2x4 SP No.1(flat) 2x4 SP No.1(flat)

BOT CHORD WFBS

2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-9 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

34=0-3-8, 31=0-3-8, 22=0-3-8 (size)

Max Uplift 34=-112(LC 4)

Max Grav 34=328(LC 3), 31=1806(LC 1), 22=996(LC 7)

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

2-3=-381/510, 3-4=-381/510, 4-5=-381/510, 5-6=0/1504, 6-7=0/1504, 7-8=-907/0, TOP CHORD

8-10=-2479/0, 10-11=-2479/0, 11-13=-3798/0, 13-14=-3780/0, 14-16=-3711/0,

16-17=-3711/0, 17-18=-3074/0, 18-19=-3074/0, 19-20=-1833/0

BOT CHORD 33-34=-159/298, 32-33=-510/381, 31-32=-1003/24, 29-30=0/1785, 27-29=0/3008,

 $26-27 = 0/3780,\ 25-26 = 0/3780,\ 24-25 = 0/3468,\ 23-24 = 0/2554,\ 22-23 = 0/1082$ 2-34=-393/211, 2-33=-476/113, 5-31=-838/0, 5-32=0/903, 4-32=-461/0, 7-31=-1673/0

 $7-30=0/1302,\ 8-30=-1244/0,\ 8-29=0/966,\ 20-22=-1438/0,\ 20-23=0/1045,\ 19-23=-1002/0,$ 19-24=0/706, 17-24=-536/0, 17-25=0/330, 11-29=-743/0, 11-27=0/1229, 13-27=-738/0,

14-25=-493/278

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 34.
- 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.
- 7) CAUTION, Do not erect truss backwards.



December 23,2021

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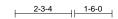
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



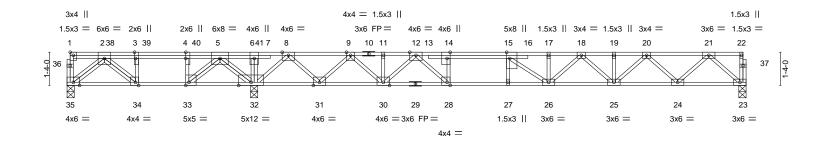
Job	Truss	Truss Type	Qty	Ply	Lot 53 Liberty Meadows
					E16497623
J1122-5793	F3A	Floor	1	1	
					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:34 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-PBLi3n9xUOauZZLN8l0xJg5A6W0QU42nZDkQmKy66ph

0-1-8



0-1-8 Scale = 1:46.3



	7-6-4		19-9-4	
Plate Offsets (X,) [1:Edge,0-1-8], [3:0-3-0,Edge], [4:0-3-	0,Edge], [14:0-3-0,Edge], [15	15:0-3-0,Edge], [28:0-1-8,Edge], [33:0-1-8,Edge], [34:0-1-8,Edge]	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL 40.0	Plate Grip DOL 1.00	TC 0.79	Vert(LL) -0.25 26-27 >928 480 MT20 244/190	
TCDL 10.0	Lumber DOL 1.00	BC 0.88	Vert(CT) -0.35 26-27 >677 360	
BCLL 0.0	Rep Stress Incr NO	WB 0.66	Horz(CT) 0.06 23 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	Weight: 169 lb FT = 2	20%F, 11%E

LUMBER-TOP CHORD

2x4 SP No 1(flat) 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat)

BOT CHORD

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

27-3-8

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 32-33,31-32,30-31.

REACTIONS. (size) 35=0-3-8, 32=0-3-8, 23=0-3-8

7-6-4

Max Grav 35=1662(LC 3), 32=3831(LC 1), 23=915(LC 7)

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

2-3=-2360/0, 3-4=-2360/0, 4-5=-2360/0, 5-6=0/2626, 6-8=0/2626, 8-9=0/427,

9-11=-1518/0, 11-12=-1518/0, 12-14=-3071/0, 14-15=-3047/0, 15-17=-3209/0,

17-18=-3209/0, 18-19=-2730/0, 19-20=-2730/0, 20-21=-1659/0

BOT CHORD 34-35=0/1750, 33-34=0/2360, 32-33=-583/893, 31-32=-1290/0, 30-31=-107/736, $28 - 30 = 0/2135,\ 27 - 28 = 0/3047,\ 26 - 27 = 0/3047,\ 25 - 26 = 0/3034,\ 24 - 25 = 0/2296,\ 23 - 24 = 0/991$

 $6-32 = -874/0, \ 2-35 = -2265/0, \ 2-34 = -2/810, \ 5-32 = -2781/0, \ 5-33 = 0/2696, \ 4-33 = -1680/0, \ 4-33 = -1680/$ 3-34=-536/0, 8-32=-1779/0, 8-31=0/1395, 9-31=-1342/0, 9-30=0/1070, 21-23=-1317/0,

21-24=0/929, 20-24=-886/0, 20-25=0/589, 18-25=-413/0, 17-26=-297/27, 12-30=-845/0,

12-28=0/1364, 14-28=-816/0, 15-26=-269/479

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 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
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 878 lb down at 1-2-4, 878 lb down at 3-2-4, and 878 lb down at 5-2-4, and 857 lb down at 7-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 23-35=-10, 1-22=-100

Concentrated Loads (lb)

Vert: 38=-798(B) 39=-798(B) 40=-798(B) 41=-798(B)



December 23,2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 53 Liberty Meadows
					E16497624
J1122-5793	F4	Floor	1	1	
					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:35 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-tOv7G6AZFijlBjwaiSYAsteIhwOnDZ2wotUzImy66pg

Structural wood sheathing directly applied, except end verticals.

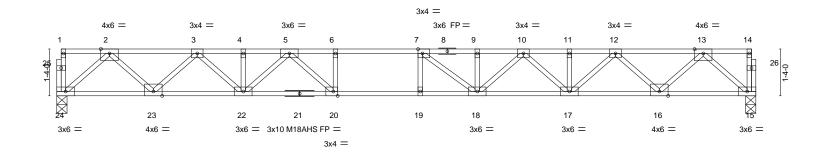
Rigid ceiling directly applied or 10-0-0 oc bracing.

0-1-8





0-1-8 Scale = 1:32.8



<u> </u>				19-11-0				'	
Plate Offsets (X,Y)									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.99	Vert(LL)	-0.35 18-19 >683	480	MT20	244/190	
	1			l :					

BRACING-

TOP CHORD

BOT CHORD

19-11-0

L **TCDL** M18AHS 10.0 Lumber DOL 0.74 Vert(CT) -0.47 18-19 186/179 1.00 BC >498 360 WB **BCLL** 0.0 Rep Stress Incr YES 0.55 Horz(CT) 0.07 15 n/a n/a BCDL 5.0 Code IRC2015/TPI2014 Matrix-S Weight: 105 lb FT = 20%F, 11%E

LUMBER-

2x4 SP No.1(flat) TOP CHORD

BOT CHORD 2x4 SP No.1(flat) *Except*

15-21: 2x4 SP 2400F 2.0E(flat)

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 24=0-3-8, 15=0-3-8

Max Grav 24=1075(LC 1), 15=1075(LC 1)

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

2-3=-2007/0, 3-4=-3409/0, 4-5=-3409/0, 5-6=-4323/0, 6-7=-4323/0, 7-9=-4232/0, TOP CHORD

9-10=-4232/0, 10-11=-3412/0, 11-12=-3412/0, 12-13=-2005/0

BOT CHORD 23-24=0/1174, 22-23=0/2804, 20-22=0/3891, 19-20=0/4323, 18-19=0/4323, 17-18=0/3894, 16-17=0/2808. 15-16=0/1172

> 2-24=-1560/0, 2-23=0/1159, 3-23=-1108/0, 3-22=0/823, 5-22=-655/0, 5-20=0/865, $6-20 = -395/0,\ 13-15 = -1558/0,\ 13-16 = 0/1159,\ 12-16 = -1116/0,\ 12-17 = 0/821,\ 10-17 = -655/0,$

10-18=0/460, 9-18=-251/64, 7-18=-606/291

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 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.



December 23,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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Job	Truss	Truss Type	Qty	Ply	Lot 53 Liberty Meadows
					E16497625
J1122-5793	F5	Floor	9	1	
					Job Reference (optional)

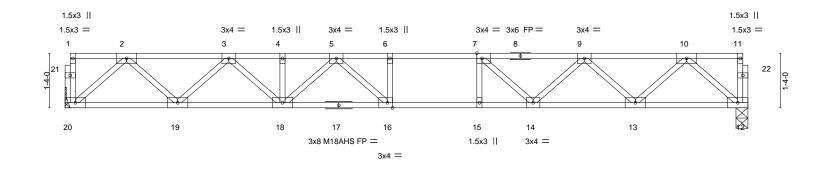
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:36 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-MaSWUSAB0?rcotVmGA3PO5BaXKgVy2A41XDWrCy66pf

0-1-8





0-1-8 Scale = 1:28.2



'						16-8-4					'
Plate Offsets (X,Y) [7:0-1-8,Edge], [16:0-1-8,Edge]											
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	-0.22 16-18	>892	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.30 16-18	>666	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.05 12	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-S					Weight: 87 lb	FT = 20%F, 11%E

16-8-4

LUMBER-TOP CHORD

2x4 SP No.1(flat) 2x4 SP No.1(flat)

BOT CHORD 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=898(LC 1), 12=898(LC 1)

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

TOP CHORD 2-3=-1619/0, 3-4=-2661/0, 4-5=-2661/0, 5-6=-3022/0, 6-7=-3022/0, 7-9=-2612/0,

9-10=-1624/0

19-20=0/970, 18-19=0/2244, 16-18=0/2936, 15-16=0/3022, 14-15=0/3022, 13-14=0/2243. BOT CHORD

12-13=0/970

WFBS 2-20=-1289/0, 2-19=0/903, 3-19=-869/0, 3-18=0/567, 10-12=-1289/0, 10-13=0/909,

9-13=-861/0, 9-14=0/557, 5-18=-374/0, 5-16=-160/451, 7-14=-702/0

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 3x6 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 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.



December 23,2021



Job	Truss	Truss Type	Qty	Ply	Lot 53 Liberty Meadows
					E16497626
J1122-5793	F6	Floor	10	1	
					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:36 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-MaSWUSAB0?rcotVmGA3PO5BaOKiRy3Y41XDWrCy66pf

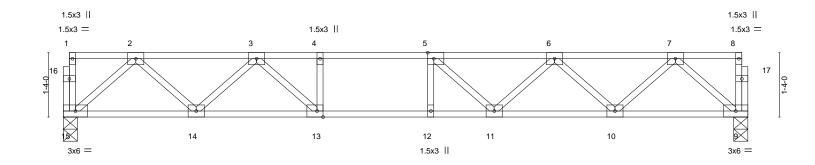
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



0₁1₁8 Scale: 1/2"=1



	1		14-2-0		1	
			14-2-0		1	
ate O	Offsets (X,Y)	[5:0-1-8,Edge], [13:0-1-8,Edge]				

Tidle Offices (X, I)	Tate Onsets (X, 1) [0.0 1 0, Eage], [10.0 1 0, Eage]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP			
TCLL 40.0	Plate Grip DOL 1.00	TC 0.54	Vert(LL) -0.15 11-12 >999 480	MT20 244/190			
TCDL 10.0	Lumber DOL 1.00	BC 0.78	Vert(CT) -0.20 11-12 >854 360				
BCLL 0.0	Rep Stress Incr YES	WB 0.34	Horz(CT) 0.03 9 n/a n/a				
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 73 lb FT = 20%F, 11%E			

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

Plat

2x4 SP No.1(flat) 2x4 SP No.1(flat)

BOT CHORD

2x4 SP No.3(flat) WFBS

REACTIONS.

(size) 15=0-3-8, 9=0-3-8

Max Grav 15=759(LC 1), 9=759(LC 1)

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

2-3=-1309/0, 3-4=-2153/0, 4-5=-2153/0, 5-6=-2019/0, 6-7=-1326/0 TOP CHORD

14-15=0/813, 13-14=0/1799, 12-13=0/2153, 11-12=0/2153, 10-11=0/1821, 9-10=0/806 **BOT CHORD WEBS** 2-15=-1080/0, 2-14=0/690, 3-14=-683/0, 3-13=0/649, 7-9=-1070/0, 7-10=0/723,

6-10=-689/0, 6-11=0/352, 5-11=-383/24, 4-13=-299/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 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.



December 23,2021



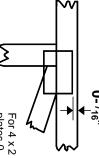
818 Soundside Road Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

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

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

PLATE SIZE

4 × 4

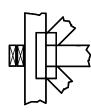
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



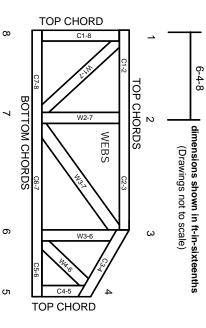
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing. Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

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- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.