

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 21-7708-B
MSP-MAYVIEW PLAN-SIDE LOAD GARAGE FLOOR

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

Pages or sheets covered by this seal: I48948033 thru I48948044

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



November 28, 2021

Sevier, Scott

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 21-7708-B	Truss F01	Truss Type Floor	Qty 9	Ply 1	MSP-MAYVIEW PLAN-SIDE LOAD GARAGE FLOOR 148948033
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Riverside Roof Truss, LLC, Danville, Va - 24541,

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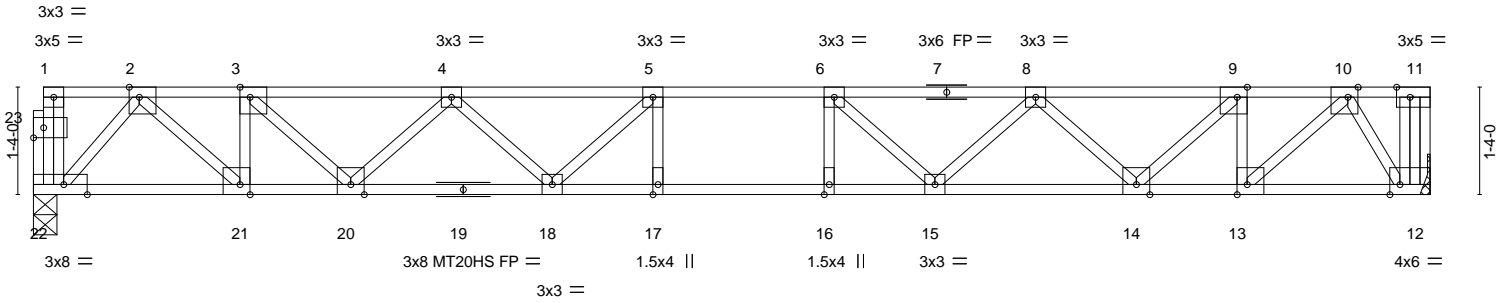
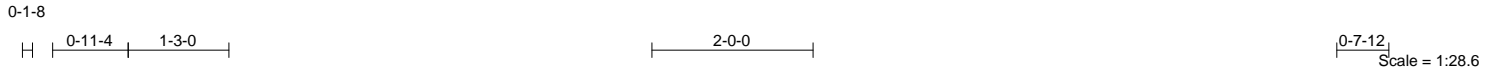


Plate Offsets (X, Y)--	[2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [11:0-2-0,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [21:0-1-8,Edge], [22:0-3-8,Edge], [23:0-1-8,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.61	Vert(LL)	-0.21	17-18	>975	480	MT20 244/190
TCDL 15.0	Plate Grip DOL 1.00	BC 0.99	Vert(CT)	-0.31	17	>654	360	MT20HS 187/143
BCLL 0.0	Lumber DOL 1.00	WB 0.61	Horz(CT)	0.06	12	n/a	n/a	
BCDL 5.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014							Weight: 96 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat) *Except* 12-19: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 17-18,16-17.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 12=Mechanical, 22=0-3-8
Max Grav 12=1025(LC 1), 22=1011(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1842/0, 3-4=-2476/0, 4-5=-3339/0, 5-6=-3594/0, 6-8=-3272/0, 8-9=-2335/0, 9-10=-1664/0
 BOT CHORD 21-22=0/936, 20-21=0/1842, 18-20=0/3064, 17-18=0/3594, 16-17=0/3594, 15-16=0/3594, 14-15=0/2955, 13-14=0/1664, 12-13=0/721
 WEBS 5-18=-586/0, 4-18=0/476, 4-20=-819/0, 3-20=0/861, 3-21=-810/0, 2-21=0/1231, 6-15=-652/0, 8-15=0/516, 8-14=-863/0, 9-14=0/912, 9-13=-848/0, 10-13=0/1282, 2-22=-1328/0, 10-12=-1210/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 4x4 MT20 unless otherwise indicated.
 - Refer to girder(s) for truss to truss connections.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



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Job 21-7708-B	Truss F02	Truss Type Floor	Qty 4	Ply 1	MSP-MAYVIEW PLAN-SIDE LOAD GARAGE FLOOR 148948034 Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, Va - 24541,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 07:01:07 2021 Page 1
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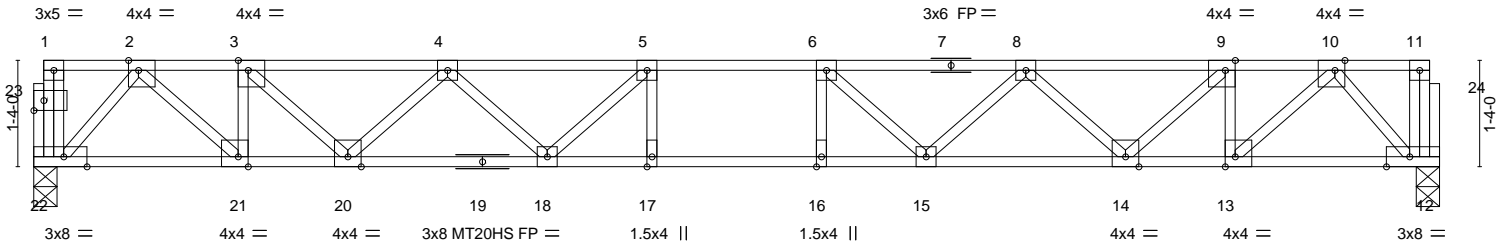
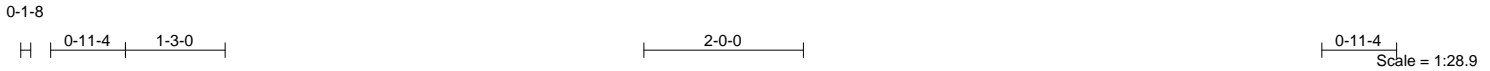


Plate Offsets (X, Y)--	[2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [12:0-3-8,Edge], [13:0-1-8,Edge], [21:0-1-8,Edge], [22:0-3-8,Edge], [23:0-1-8,0-1-8]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.60	Vert(LL) -0.22 16-17 >954 480	MT20	244/190
TCDL 15.0	Lumber DOL 1.00	BC 0.97	Vert(CT) -0.33 16-17 >633 360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.60	Horz(CT) 0.06 12 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 97 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat) *Except* 12-19: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 12=0-3-8, 22=0-3-8
Max Grav 12=1029(LC 1), 22=1029(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1878/0, 3-4=-2530/0, 4-5=-3431/0, 5-6=-3719/0, 6-8=-3431/0, 8-9=-2530/0, 9-10=-1878/0
BOT CHORD 21-22=0/953, 20-21=0/1878, 18-20=0/3135, 17-18=0/3719, 16-17=0/3719, 15-16=0/3719, 14-15=0/3135, 13-14=0/1878, 12-13=0/954
WEBS 5-18=-626/0, 4-18=0/501, 4-20=-841/0, 3-20=0/886, 3-21=-829/0, 2-21=0/1257, 6-15=-626/0, 8-15=0/501, 8-14=-841/0, 9-14=0/885, 9-13=-828/0, 10-13=0/1257, 2-22=-1352/0, 10-12=-1353/0

- 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 3x3 MT20 unless otherwise indicated.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) CAUTION, Do not erect truss backwards.



November 28, 2021

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 21-7708-B	Truss F03	Truss Type Floor	Qty 12	Ply 1	MSP-MAYVIEW PLAN-SIDE LOAD GARAGE FLOOR 148948035
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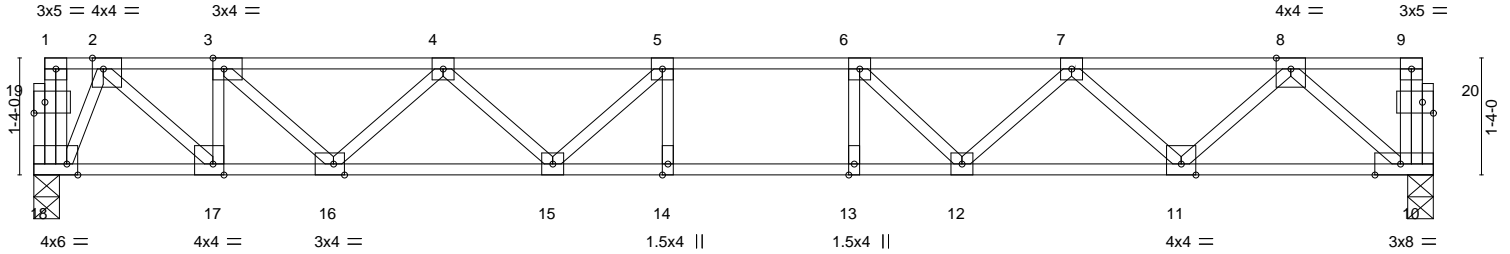
Riverside Roof Truss, LLC, Danville, Va - 24541,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 07:01:08 2021 Page 1
ID:V5Zd3AGknT_CCEdSu0Wp7UzkDmM-?l8vB42118KPAn3q1k6Pt4T1J_nfo_J3FrSrgVyG2Jf

0-1-8



0-1-8
Scale = 1:26.3



	7-3-8	8-3-8	9-3-8	15-11-8
	7-3-8	1-0-0	1-0-0	6-8-0
Plate Offsets (X,Y)--	[2:0-1-8,Edge], [3:0-1-8,Edge], [10:0-3-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge], [19:0-1-8,0-1-8], [20:0-1-8,0-1-8]			

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 0.55	Vert(LL)	-0.17 14-15	>999	480	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.92	Vert(CT)	-0.25 14-15	>742	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.05 10	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 87 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 13-14.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 10=0-3-8, 18=0-3-8
Max Grav 10=932(LC 1), 18=925(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1375/0, 3-4=-1984/0, 4-5=-2799/0, 5-6=-3006/0, 6-7=-2662/0, 7-8=-1701/0
BOT CHORD 17-18=0/494, 16-17=0/1375, 15-16=0/2551, 14-15=0/3006, 13-14=0/3006, 12-13=0/3006, 11-12=0/2324, 10-11=0/1043
WEBS 5-15=-503/6, 4-15=0/426, 4-16=-788/0, 3-16=0/828, 3-17=-791/0, 2-17=0/1197, 8-10=-1360/0, 8-11=0/914, 7-11=-867/0, 7-12=0/519, 6-12=-648/0, 2-18=-1018/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 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.



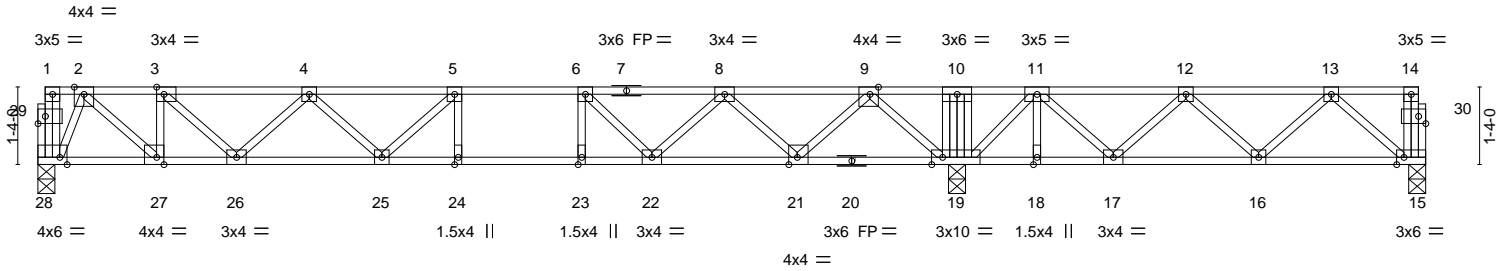
November 28, 2021

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	 818 Soundside Road Edenton, NC 27932
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Job 21-7708-B	Truss F04	Truss Type Floor	Qty 2	Ply 1	MSP-MAYVIEW PLAN-SIDE LOAD GARAGE FLOOR 148948036 Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, Va - 24541,

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ID:V5Zd3AGknT_CCEdSu0Wp7UzkDmM-TUiHOQ3OoSSFoxe0bRdeQH0BoOCzXRYDUVc?CxyG2Je



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

	7-3-8 7-3-8	8-3-8 1-0-0	9-3-8 1-0-0	15-9-12 6-6-4	23-10-8 8-0-12
Plate Offsets (X,Y)--	[3:0-1-8,Edge], [9:0-1-12,Edge], [15:0-1-8,Edge], [19:0-2-4,Edge], [21:0-1-12,Edge], [27:0-1-8,Edge], [28:0-1-8,Edge], [29:0-1-8,0-1-8], [30:0-1-8,0-1-8]				

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 0.63	Vert(LL)	-0.16	24-25	>999	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.60	Vert(CT)	-0.24	24-25	>794		
BCLL 0.0	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.03	19	n/a		
BCDL 5.0	Code IRC2015/TP12014		Matrix-S						
								Weight: 133 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP DSS(flat) *Except* 15-20: 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 19=0-3-8, 15=0-3-8, 28=0-3-8
Max Uplift 15=-58(LC 3)
Max Grav 19=1771(LC 1), 15=363(LC 4), 28=819(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1200/0, 3-4=-1696/0, 4-5=-2295/0, 5-6=-2296/0, 6-8=-1760/0, 8-9=-581/0,
9-10=0/1522, 10-11=0/1522, 11-12=-240/695, 12-13=-459/249
BOT CHORD 27-28=0/437, 26-27=0/1200, 25-26=0/2167, 24-25=0/2296, 23-24=0/2296, 22-23=0/2296,
21-22=0/1301, 19-21=-471/0, 18-19=-997/0, 17-18=-997/0, 16-17=-430/502,
15-16=-99/384
WEBS 5-24=-272/0, 6-23=0/316, 4-26=-655/0, 3-26=0/674, 3-27=-678/0, 2-27=0/1037,
9-19=-1561/0, 9-21=0/1066, 8-21=-1016/0, 8-22=0/656, 6-22=-815/0, 13-15=-488/129,
12-16=-61/252, 12-17=-560/0, 11-17=0/607, 2-28=-900/0, 11-19=-967/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x3 MT20 unless otherwise indicated.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15.
 - 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.



Job 21-7708-B	Truss F05	Truss Type Floor	Qty 2	Ply 1	MSP-MAYVIEW PLAN-SIDE LOAD GARAGE FLOOR 148948037 Job Reference (optional)
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8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 07:01:10 2021 Page 1
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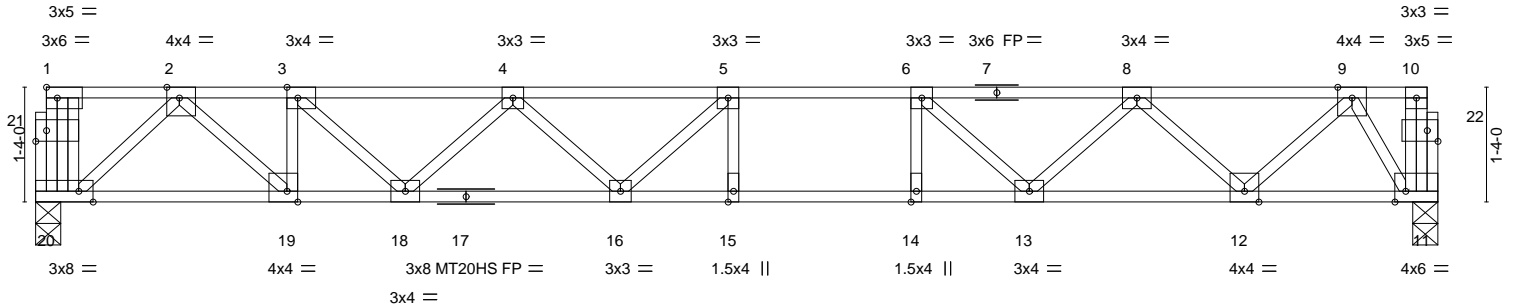
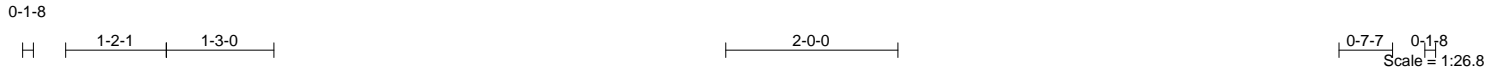


Plate Offsets (X,Y)--	[2:0-1-12,Edge], [3:0-1-8,Edge], [11:0-1-8,Edge], [19:0-1-8,Edge], [20:0-2-0,Edge], [21:0-1-8,0-1-8], [22:0-1-8,0-1-8]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.69	Vert(LL) -0.21 15-16 >934 480	MT20	244/190
TCDL 15.0	Lumber DOL 1.00	BC 0.79	Vert(CT) -0.30 15-16 >636 360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.04 11 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 90 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 5-10-1 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat) *Except* 11-17: 2x4 SP DSS(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 20=0-3-8, 11=0-3-8
Max Grav 20=952(LC 1), 11=945(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1859/0, 3-4=-2384/0, 4-5=-3039/0, 5-6=-3094/0, 6-8=-2571/0, 8-9=-1432/0
BOT CHORD 19-20=0/1071, 18-19=0/1859, 16-18=0/2880, 15-16=0/3094, 14-15=0/3094, 13-14=0/3094,
12-13=0/2139, 11-12=0/688
WEBS 5-15=-268/82, 6-14=-50/300, 5-16=-375/171, 4-16=0/343, 4-18=-690/0, 3-18=0/714,
3-19=-695/0, 2-19=0/1071, 6-13=-827/0, 8-13=0/612, 8-12=-983/0, 9-12=0/1034,
2-20=-1378/0, 9-11=-1179/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



November 28, 2021

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Job 21-7708-B	Truss F06	Truss Type Floor	Qty 3	Ply 1	MSP-MAYVIEW PLAN-SIDE LOAD GARAGE FLOOR 148948038 Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, Va - 24541,

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Scale = 1:26.3

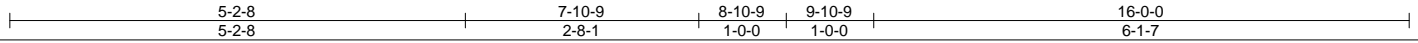
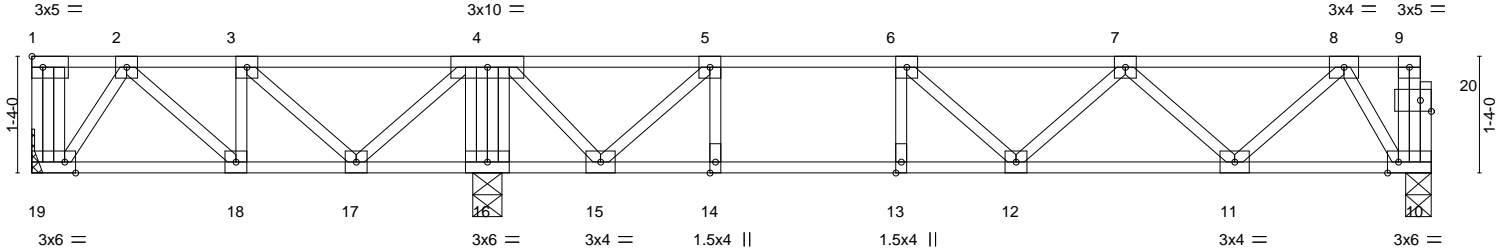


Plate Offsets (X,Y)-- [10:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,0-1-8]

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 0.62	Vert(LL)	-0.12 12-13	>999	480	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.85	Vert(CT)	-0.18 12-13	>710	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.02 10	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 94 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17,15-16.

REACTIONS. (size) 16=0-4-0, 19=Mechanical, 10=0-3-8
Max Grav 16=857(LC 7), 19=429(LC 8), 10=661(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-608/0, 3-4=-582/0, 4-5=-916/0, 5-6=-1458/0, 6-7=-1486/0, 7-8=-935/0
BOT CHORD 18-19=0/289, 17-18=0/608, 16-17=-60/554, 15-16=-63/552, 14-15=0/1458, 13-14=0/1458,
12-13=0/1458, 11-12=0/1384, 10-11=0/472
WEBS 5-14=0/254, 4-16=-818/0, 4-17=-59/255, 3-18=-270/0, 2-18=0/434, 5-15=-855/0,
4-15=0/671, 7-11=-625/0, 8-11=0/645, 2-19=-465/0, 8-10=-806/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x3 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.



November 28, 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

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

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

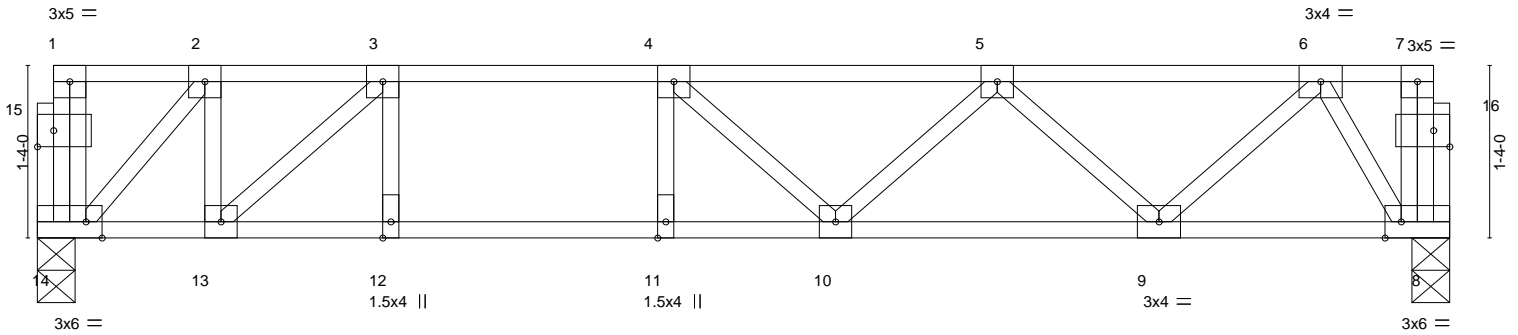


818 Soundside Road
Edenton, NC 27932

Job 21-7708-B	Truss F07	Truss Type Floor	Qty 5	Ply 1	MSP-MAYVIEW PLAN-SIDE LOAD GARAGE FLOOR 148948039
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Riverside Roof Truss, LLC, Danville, Va - 24541,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 07:01:11 2021 Page 1
ID:V5Zd3AGknT_CCEdSu0Wp7UzkDmM-Psq2p65eK3iz1FnPisf6Vi5TGCpa?OXWyp55HqyG2Jc



	2-9-9	3-9-9	4-9-9	10-11-0
	2-9-9	1-0-0	1-0-0	6-1-7
Plate Offsets (X,Y)--	[8:0-1-8,Edge], [14:0-1-8,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)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.82	Vert(LL)	-0.14 10-11	>936	480	MT20	244/190
TCDL 15.0	Lumber DOL	1.00	BC 0.91	Vert(CT)	-0.20 10-11	>648	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.02 8	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 62 lb	FT = 20%F, 11%E

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

REACTIONS. (size) 14=0-3-8, 8=0-3-8
Max Grav 14=626(LC 1), 8=626(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-537/0, 3-4=-1257/0, 4-5=-1353/0, 5-6=-874/0
BOT CHORD 13-14=0/537, 12-13=0/1257, 11-12=0/1257, 10-11=0/1257, 9-10=0/1292, 8-9=0/445
WEBS 3-12=0/289, 4-11=-254/0, 3-13=-966/0, 2-13=0/501, 5-9=-581/0, 6-9=0/597, 2-14=-741/0, 6-8=-761/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 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.



November 28, 2021

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Job 21-7708-B	Truss KW01	Truss Type Floor Supported Gable	Qty 1	Ply 1	MSP-MAYVIEW PLAN-SIDE LOAD GARAGE FLOOR 148948040 Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, Va - 24541,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 07:01:12 2021 Page 1
ID:V5Zd3AGknT_CCEdSu0Wp7UzkDmM-t3OQ1S5G5NqqfPMbGZAL1wepVcMokvhfATqfpGyG2Jb

0-1/8

Scale = 1:28.6

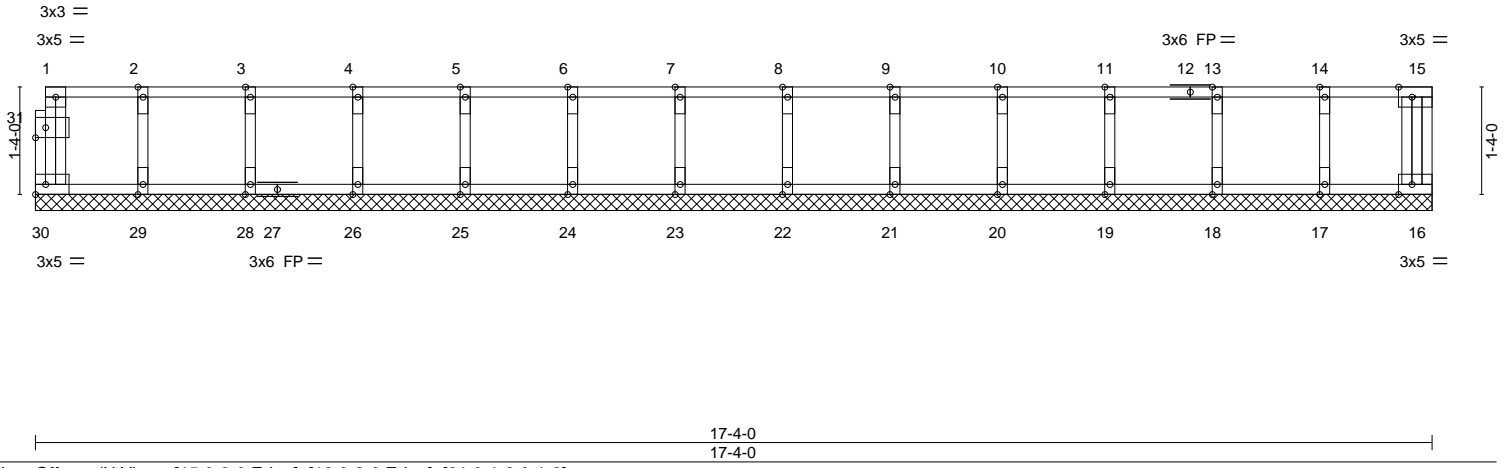


Plate Offsets (X,Y)--	[15:0-2-0,Edge], [16:0-2-0,Edge], [31:0-1-8,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.08	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 15.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 16 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R		Weight: 80 lb	FT = 20%F, 11%E

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

REACTIONS. All bearings 17-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17

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

- NOTES-**
- All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



November 28, 2021

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Job 21-7708-B	Truss KW02	Truss Type Floor Supported Gable	Qty 1	Ply 1	MSP-MAYVIEW PLAN-SIDE LOAD GARAGE FLOOR 148948041 Job Reference (optional)
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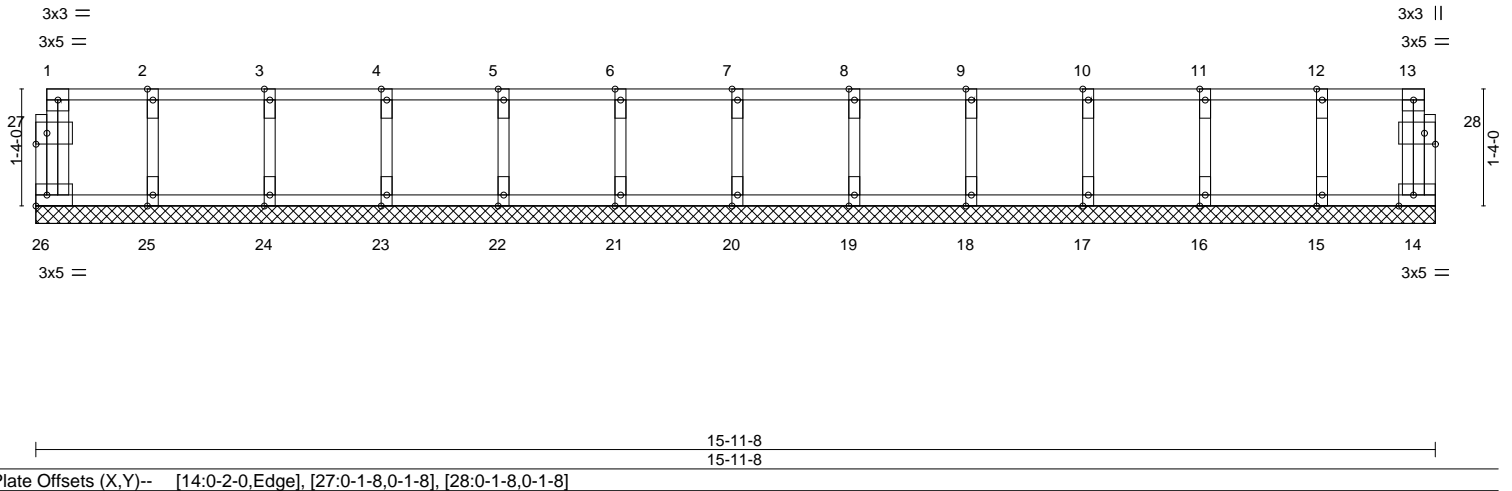
Riverside Roof Truss, LLC, Danville, Va - 24541,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 07:01:13 2021 Page 1
ID:V5Zd3AGknT_CCEdSu0Wp7UzkDmM-LFyoEo6ushyhHZxnqHhaa7A_E?i0TMwoP7aCLiyG2Ja

0-1/8

0-1/8

Scale = 1:26.3



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 0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 15.0	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	14	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R						Weight: 74 lb	FT = 20%F, 11%E

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

REACTIONS. All bearings 15-11-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

- NOTES-**
- All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



November 28, 2021

Job 21-7708-B	Truss KW03	Truss Type Floor Supported Gable	Qty 1	Ply 1	MSP-MAYVIEW PLAN-SIDE LOAD GARAGE FLOOR 148948042 Job Reference (optional)
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8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 07:01:13 2021 Page 1
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0.1r8

Scale = 1:25.8

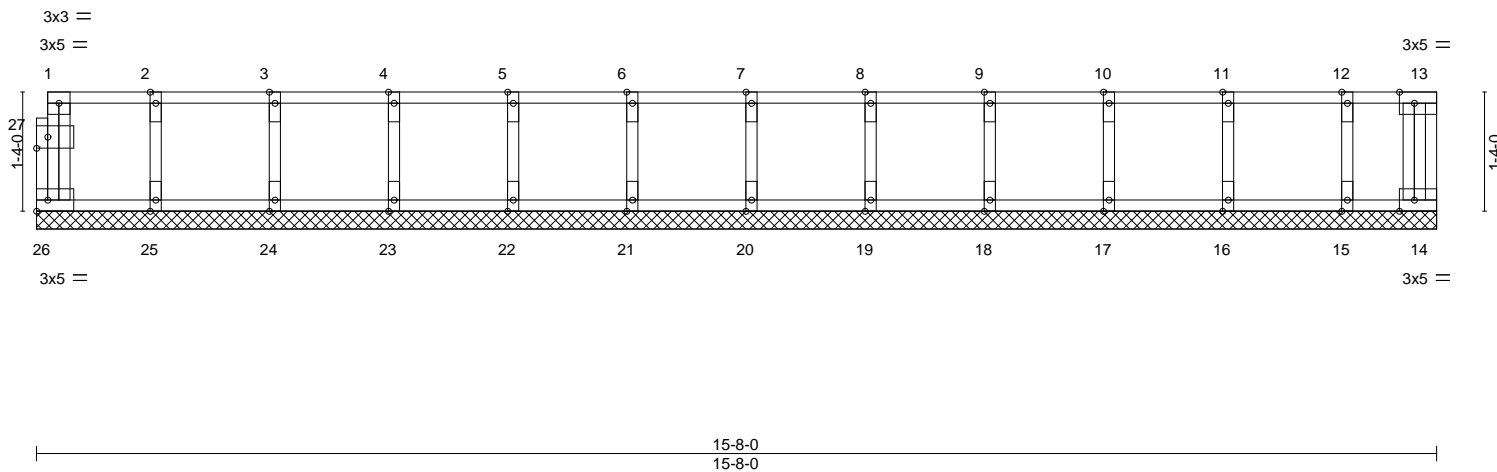


Plate Offsets (X,Y)--	[13:0-2-0,Edge], [14:0-2-0,Edge], [27:0-1-8,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.09	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 15.0	Lumber DOL 1.00	BC 0.02	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 14 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R		Weight: 74 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 15-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

- NOTES-**
- All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



November 28, 2021

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Job 21-7708-B	Truss KW04	Truss Type Floor Supported Gable	Qty 1	Ply 1	MSP-MAYVIEW PLAN-SIDE LOAD GARAGE FLOOR 148948043 Job Reference (optional)
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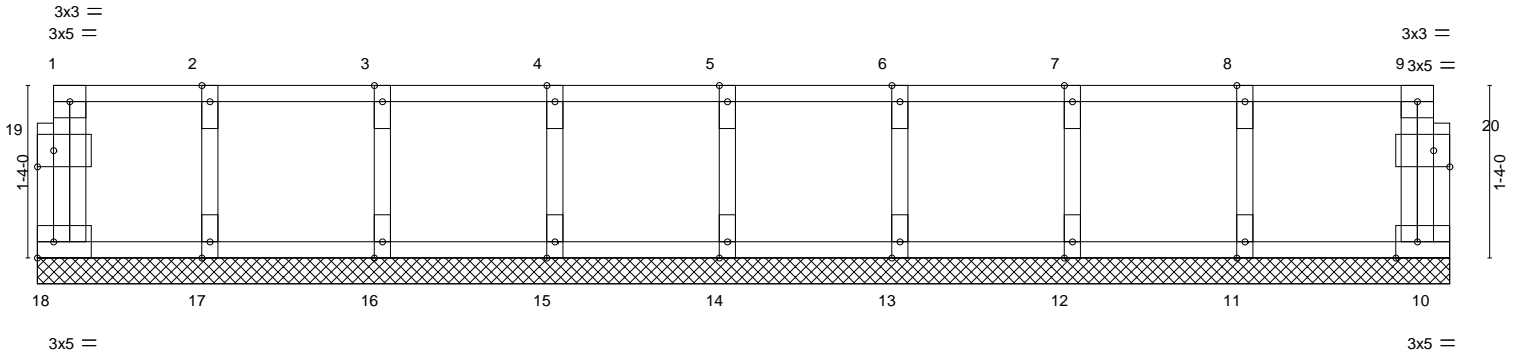
Riverside Roof Truss, LLC, Danville, Va - 24541,

8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 07:01:14 2021 Page 1
ID:V5Zd3AGknT_CCEdSu0Wp7UzkDmM-pRWAR87Wd_4YuiW_O_Dp6Lj9xP26CpAyenJmt9yG2JZ

0₁1₈

0₁1₈

Scale = 1:17.8



10-11-0
10-11-0

Plate Offsets (X,Y)--	[10:0-2-0,Edge], [19:0-1-8,0-1-8], [20:0-1-8,0-1-8]				
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 0.09	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 15.0	Lumber DOL 1.00	BC 0.02	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 10 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R		Weight: 53 lb	FT = 20%F, 11%E

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

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

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

- NOTES-**
- 1) All plates are 1.5x4 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.



November 28, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Job 21-7708-B	Truss KW05	Truss Type Floor Supported Gable	Qty 1	Ply 1	MSP-MAYVIEW PLAN-SIDE LOAD GARAGE FLOOR 148948044 Job Reference (optional)
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8.520 s Aug 27 2021 MiTek Industries, Inc. Wed Nov 24 07:01:15 2021 Page 1
ID:V5Zd3AGknT_CCEdSu0Wp7UzkDmM-He4Yft88OICPWS5Axik2fYGKkpOTxGQ5sR3JQbyG2JY

0-1-8

Scale = 1:14.6

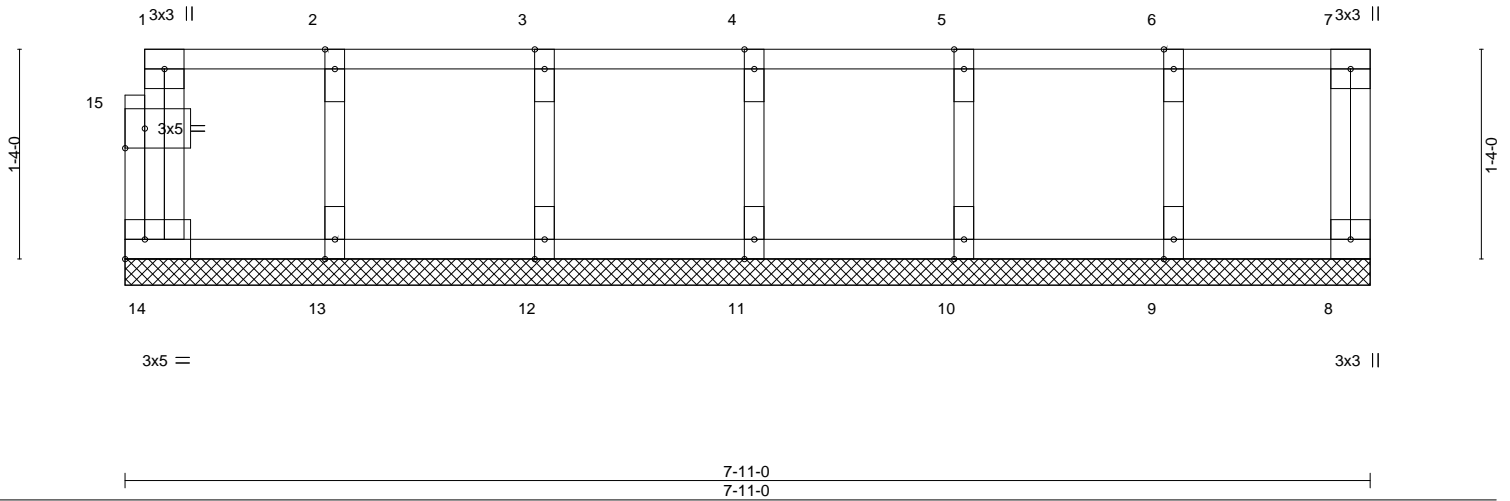


Plate Offsets (X,Y)--	[15:0-1-8,0-1-8]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.09	Vert(LL)	n/a	-	n/a 999
TCDL 15.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a 999
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	8	n/a n/a
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R				
							PLATES
							MT20
							GRIP
							244/190
							Weight: 39 lb
							FT = 20%F, 11%E

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

REACTIONS. All bearings 7-11-0.
(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 1.5x4 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.
 - 6) CAUTION, Do not erect truss backwards.

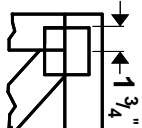


November 28, 2021

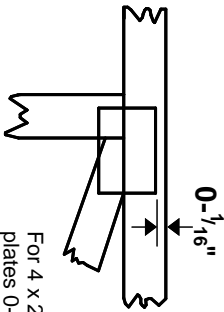
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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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

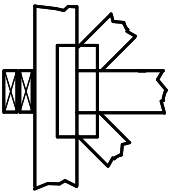
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



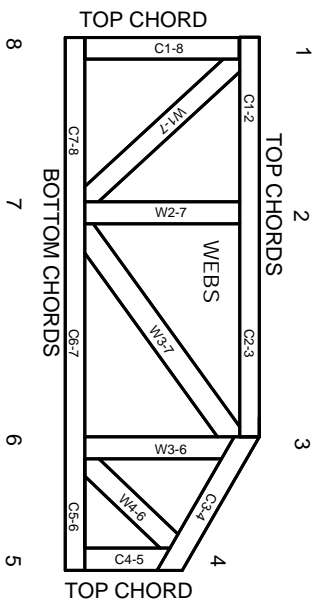
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.