

Mark Morris, P.E.

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The truss drawing(s) listed below have been prepared by **Atlantic Building Components** under my direct supervision based on the parameters provided by the truss designers.

AST #: 55565

JOB: 24-B592-F02

JOB NAME: LOT 0.0017 CAMPBELL RIDGE

Wind Code: N/A

Wind Speed: Vult= N/A

Exposure Category: N/A

Mean Roof Height (feet): N/A

These truss designs comply with IRC 2018 as well as IRC 2021.

23 Truss Design(s)

Trusses:

F201, F202, F203, F204, F205, F205A, F206, F206A, F207, F208, F209, F211, F212, F213, F214, F214A, F215, F216, F217, F218, F219, F220, F221



12/21/2024

Mark Morris

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F201	FLOOR SUPPORTED GABL	1	1	Job Reference (optional) # 55565

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Dec 21 20:30:11 2024 Page 1
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0-1-8

Scale: 3/8"=1'

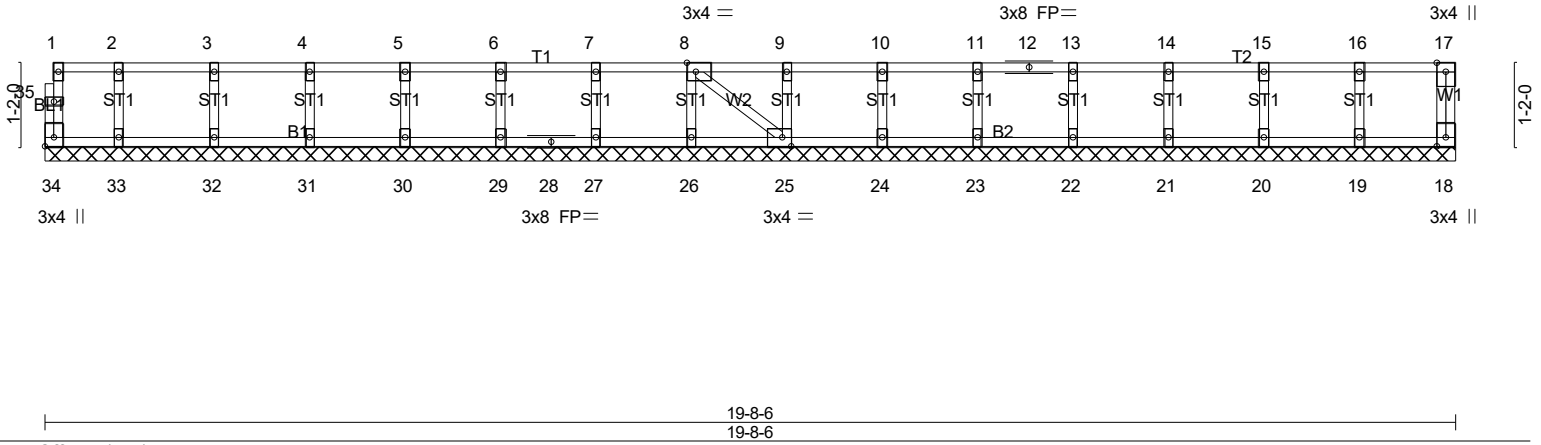


Plate Offsets (X,Y)-- [8:0-1-8,Edge], [25:0-1-8,Edge], [34:Edge,0-1-8]	
LOADING (psf)	SPACING- 1-7-3
TCLL 40.0	Plate Grip DOL 1.00
TCDL 10.0	Lumber DOL 1.00
BCLL 0.0	Rep Stress Incr YES
BCDL 5.0	Code IRC2021/TPI2014
CSI.	DEFL. in (loc) l/defl L/d
TC 0.05	Vert(LL) n/a - n/a 999
BC 0.01	Vert(CT) n/a - n/a 999
WB 0.03	Horz(CT) 0.00 18 n/a n/a
Matrix-SH	
	PLATES GRIP
	MT20 244/190
	Weight: 85 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(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 19-8-6.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 34, 19, 20, 21, 22, 23, 24, 25, 26, 27, 29, 30, 31, 32, 33

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

- NOTES-** (7-8)
- All plates are 1.5x3 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.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard

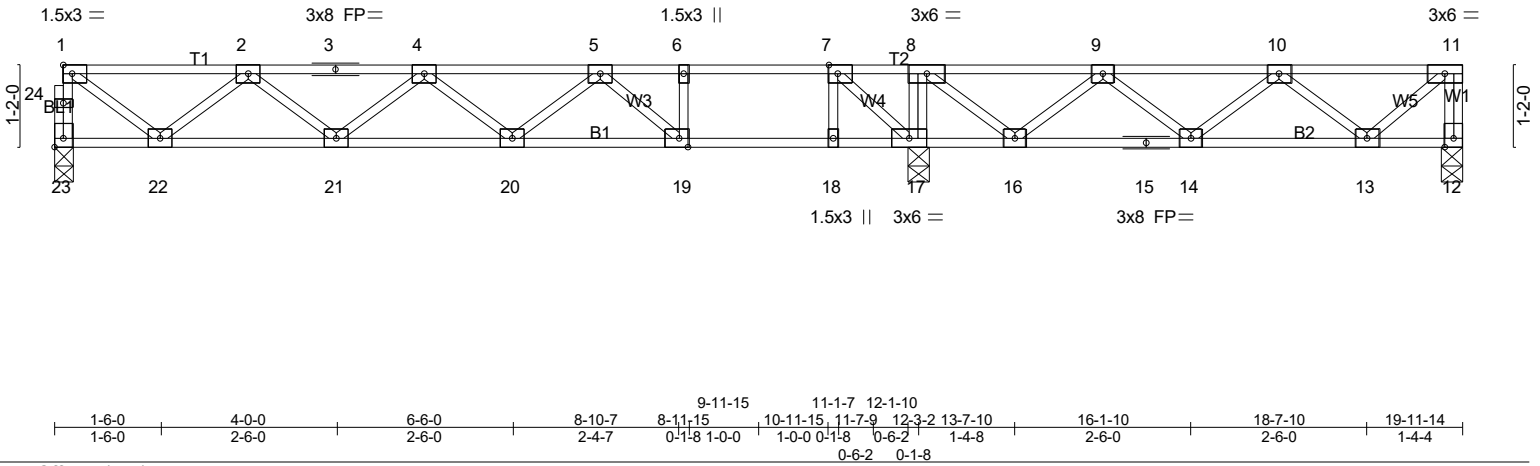
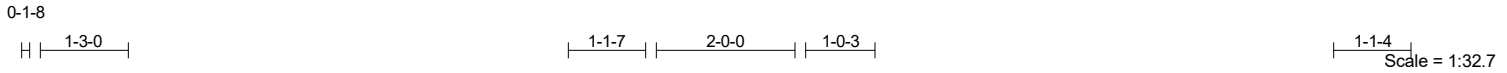


12/21/2024

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Job 24-B592-F02	Truss F202	Truss Type Floor	Qty 2	Ply 1	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC Job Reference (optional) # 55565
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.22 19-20 >653 480	MT20	244/190	Weight: 102 lb FT = 20%F, 11%E	
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.31 19-20 >474 360				
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.02 12 n/a n/a				
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP SS(flat) *Except*
B2: 2x4 SP No.1(flat)
WEBS 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 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17.

REACTIONS. (lb/size) 23=549/0-3-6 (min. 0-1-8), 12=366/0-3-8 (min. 0-1-8), 17=816/0-3-8 (min. 0-1-8)
Max Grav 23=558(LC 3), 12=371(LC 7), 17=816(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 23-24=-556/0, 1-24=-555/0, 11-12=-368/0, 1-2=-630/0, 2-3=-1431/0, 3-4=-1431/0,
4-5=-1744/0, 5-6=-1209/0, 6-7=-1209/0, 7-8=-292/27, 8-9=-551/0, 9-10=-729/0,
10-11=-340/0
BOT CHORD 21-22=0/1169, 20-21=0/1696, 19-20=0/1661, 18-19=0/1209, 17-18=0/1209, 16-17=-27/292,
15-16=0/774, 14-15=0/774, 13-14=0/664
WEBS 7-18=0/345, 8-17=-335/54, 1-22=0/761, 2-22=-702/0, 2-21=0/340, 4-21=-345/0,
5-19=-632/0, 7-17=-1213/0, 8-16=0/411, 9-16=-346/0, 10-13=-422/0, 11-13=0/445

- NOTES-** (5-6)
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - 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.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



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Job 24-B592-F02	Truss F203	Truss Type Floor	Qty 5	Ply 1	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC Job Reference (optional) # 55565
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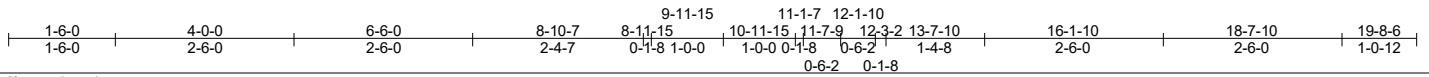
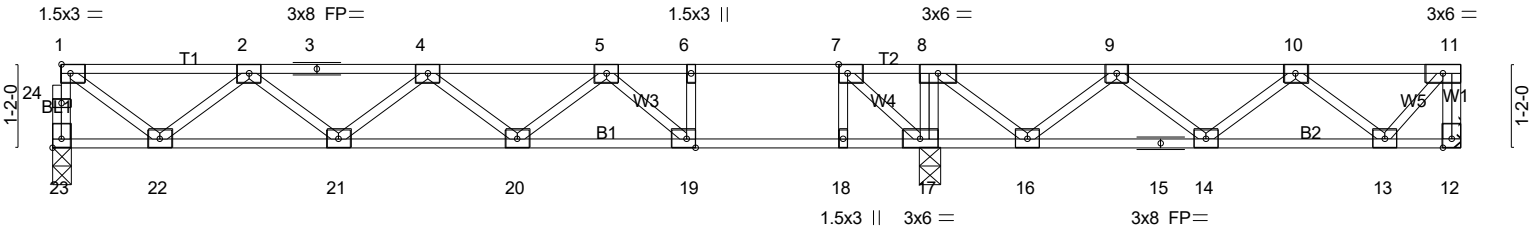
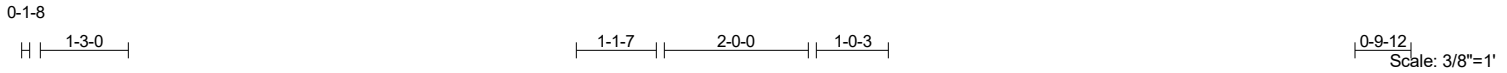


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [19:0-1-8,Edge], [23:Edge,0-1-8]										
LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.89	Vert(LL)	-0.22	19-20	>655	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.67	Vert(CT)	-0.31	19-20	>476	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.36	Horz(CT)	0.02	12	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH							
										Weight: 100 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP SS(flat) *Except* B2: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 23=551/0-3-6 (min. 0-1-8), 12=358/Mechanical, 17=797/0-3-8 (min. 0-1-8)
Max Grav 23=559(LC 3), 12=363(LC 7), 17=797(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 23-24=-557/0, 1-24=-556/0, 11-12=-362/0, 1-2=-631/0, 2-3=-1433/0, 3-4=-1433/0,
4-5=-1748/0, 5-6=-1216/0, 6-7=-1216/0, 7-8=-301/9, 8-9=-550/0, 9-10=-684/0,
10-11=-263/0
BOT CHORD 21-22=0/1171, 20-21=0/1700, 19-20=0/1666, 18-19=0/1216, 17-18=0/1216, 16-17=-9/301,
15-16=0/754, 14-15=0/754, 13-14=0/593
WEBS 7-18=0/343, 8-17=-320/60, 1-22=0/762, 2-22=-704/0, 2-21=0/342, 4-21=-347/0,
5-19=-627/0, 7-17=-1211/0, 8-16=0/388, 9-16=-323/0, 10-13=-430/0, 11-13=0/393

- NOTES-** (6-7)
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x4 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.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
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LOAD CASE(S) Standard

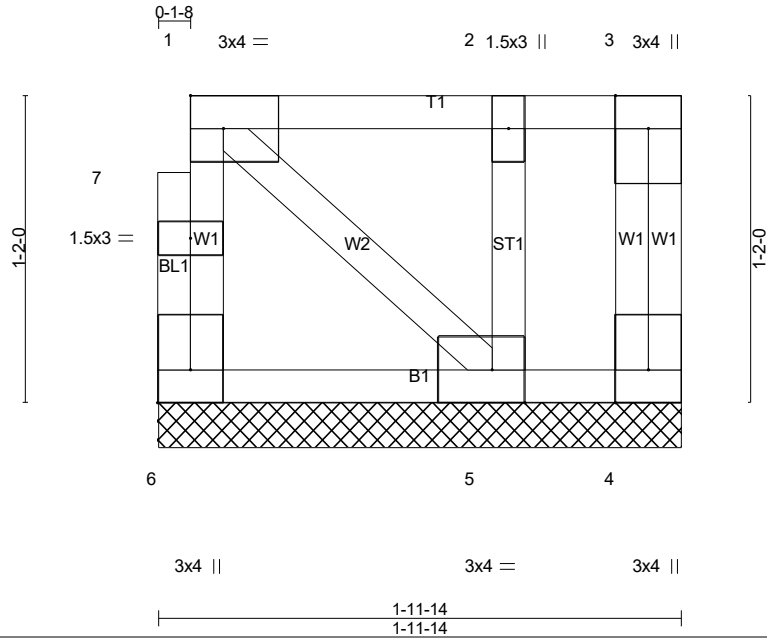


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Job 24-B592-F02	Truss F204	Truss Type Floor Supported Gable	Qty 1	Ply 1	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC Job Reference (optional) # 55565
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Scale = 1:8.8

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:Edge,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 0.05	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	4	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-P							
									Weight: 14 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=50/1-11-14 (min. 0-1-8), 4=5/1-11-14 (min. 0-1-8), 5=130/1-11-14 (min. 0-1-8)

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

- NOTES-** (6-7)
- Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.
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LOAD CASE(S) Standard



12/21/2024

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Job 24-B592-F02	Truss F205	Truss Type Floor	Qty 3	Ply 1	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC Job Reference (optional) # 55565
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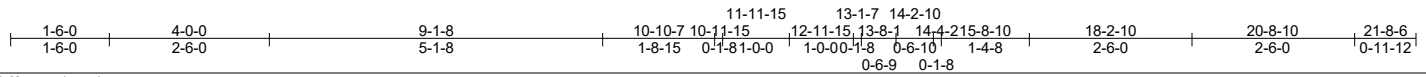
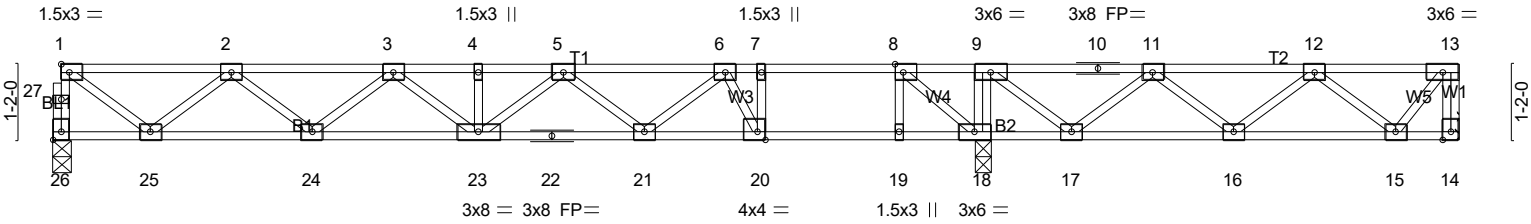
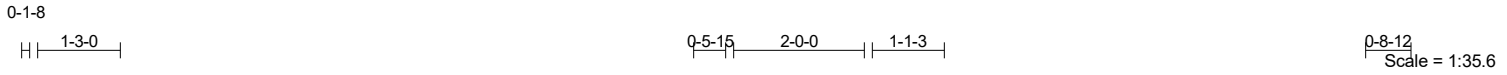


Plate Offsets (X,Y)-- [8:0-1-8,Edge], [20:0-1-8,Edge], [26:Edge,0-1-8]

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 0.77	Vert(LL)	-0.28 20-21	>620	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.76	Vert(CT)	-0.38 20-21	>452	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.03 14	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 112 lb	FT = 20%F, 11%E

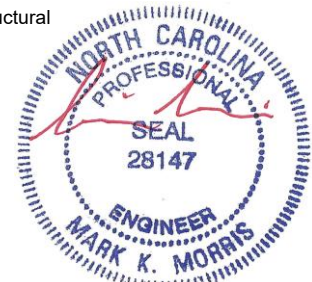
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat) *Except* T1: 2x4 SP SS(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat) *Except* B2: 2x4 SP SS(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-18.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 26=606/0-3-6 (min. 0-1-8), 14=290/Mechanical, 18=985/0-3-0 (min. 0-1-8)
Max Grav 26=613(LC 3), 14=296(LC 4), 18=985(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 26-27=-608/0, 1-27=-607/0, 13-14=-296/0, 1-2=-699/0, 2-3=-1644/0, 3-4=-2058/0,
4-5=-2058/0, 5-6=-1934/0, 6-7=-1058/0, 7-8=-1058/0, 11-12=-463/0
BOT CHORD 24-25=0/1313, 23-24=0/1943, 22-23=0/2091, 21-22=0/2091, 20-21=0/1581, 19-20=0/1058,
18-19=0/1058, 16-17=0/463, 15-16=0/446
WEBS 7-20=0/692, 8-19=0/408, 9-18=-332/34, 1-25=0/846, 2-25=-799/0, 2-24=0/431,
3-24=-389/0, 6-21=0/478, 6-20=-1135/0, 8-18=-1573/0, 9-17=0/488, 11-17=-371/0,
12-15=-334/0, 13-15=0/298

- NOTES-** (6-7)
- 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.
 - 6) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 7) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard

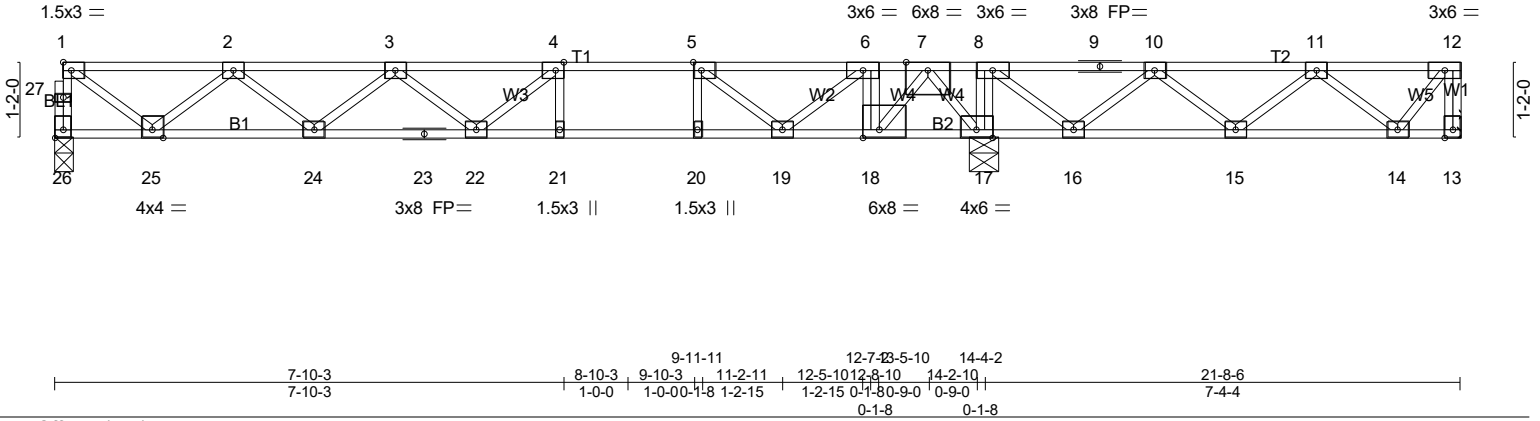
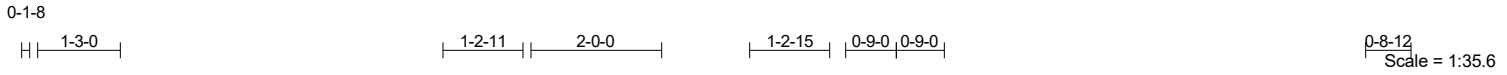


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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F205A	Floor	1	1	# 55565

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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	Vert(LL)	-0.18	21-22	>958	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	Vert(CT)	-0.24	21-22	>723	360		
BCLL	0.0	Rep Stress Incr	NO	WB	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 113 lb FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP No.1(flat)
 WEBS 2x4 SP No.3(flat) *Except*
 W5,W4: 2x4 SP No.2(flat)

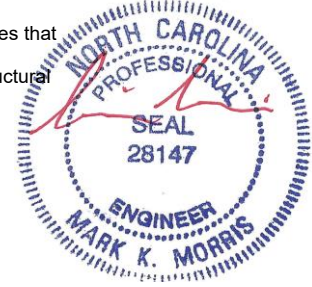
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 26=624/0-3-6 (min. 0-1-8), 13=15/Mechanical, 17=2522/0-5-8 (min. 0-1-8)
 Max Uplift 13=-202(LC 3)
 Max Grav 26=631(LC 3), 13=82(LC 4), 17=2522(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 26-27=-628/0, 1-27=-627/0, 1-2=-721/0, 2-3=-1715/0, 3-4=-2139/0, 4-5=-2096/0,
 5-6=-1538/0, 6-7=-1058/0, 7-8=0/2075, 8-9=0/1522, 9-10=0/1522, 10-11=0/775
 BOT CHORD 24-25=0/1349, 23-24=0/2067, 22-23=0/2067, 21-22=0/2096, 20-21=0/2096, 19-20=0/2096,
 18-19=0/1058, 17-18=-691/0, 16-17=-2075/0, 15-16=-1127/0, 14-15=-450/15
 WEBS 6-18=-1777/0, 8-17=-710/0, 1-25=0/873, 2-25=-818/0, 2-24=0/476, 3-24=-458/0,
 8-16=0/830, 10-16=-780/0, 10-15=0/462, 11-15=-427/0, 11-14=-2/358, 12-14=-276/21,
 5-19=-732/0, 6-19=0/615, 7-18=0/2339, 7-17=-2377/0

- NOTES-** (8-9)
- 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 202 lb uplift at joint 13.
 - 5) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 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.
 - 8) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 9) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 13-26=-8, 1-12=-80
 Concentrated Loads (lb)
 Vert: 6=-1280



Continued on page 2

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Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F205A	Floor	1	1	Job Reference (optional) # 55565

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LOAD CASE(S) Standard

- 2) Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 13-26=-8, 1-12=-80
 - Concentrated Loads (lb)
 - Vert: 6=-1280
- 3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 13-26=-8, 1-8=-80, 8-12=-16
 - Concentrated Loads (lb)
 - Vert: 6=-1280
- 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 13-26=-8, 1-8=-16, 8-12=-80
 - Concentrated Loads (lb)
 - Vert: 6=-1280
- 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 13-26=-8, 1-8=-80, 8-12=-16
 - Concentrated Loads (lb)
 - Vert: 6=-1280
- 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 13-26=-8, 1-8=-16, 8-12=-80
 - Concentrated Loads (lb)
 - Vert: 6=-1280
- 7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 13-26=-8, 1-5=-80, 5-8=-16, 8-12=-80
 - Concentrated Loads (lb)
 - Vert: 6=-1280
- 8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 13-26=-8, 1-4=-16, 4-12=-80
 - Concentrated Loads (lb)
 - Vert: 6=-1280
- 9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 13-26=-8, 1-5=-80, 5-8=-16, 8-12=-80
 - Concentrated Loads (lb)
 - Vert: 6=-1280
- 10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 13-26=-8, 1-4=-16, 4-12=-80
 - Concentrated Loads (lb)
 - Vert: 6=-1280

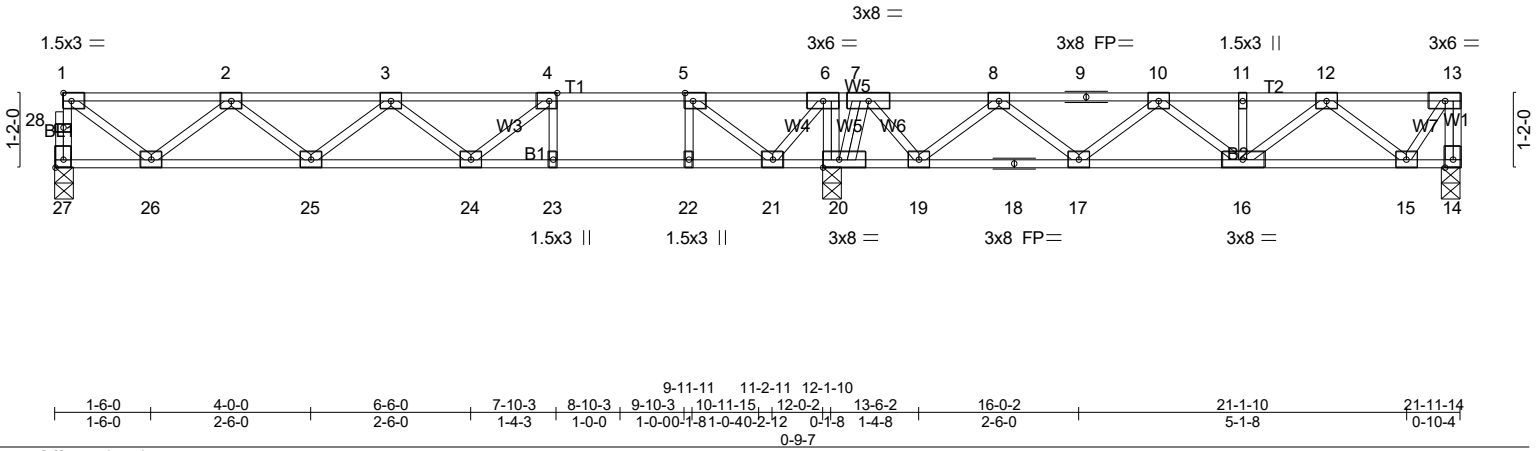
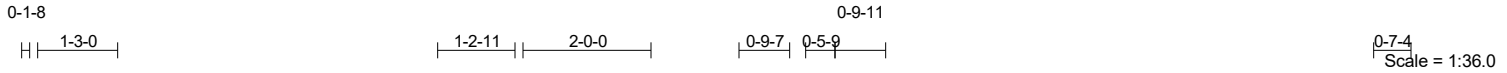


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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F206	Floor	1	1	# 55565

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Dec 21 20:30:14 2024 Page 1
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LOADING (psf)	SPACING-	CS.I.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.77	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.72	Vert(LL) -0.17 23-24 >845 480		
BCLL 0.0	Rep Stress Incr NO	WB 0.33	Vert(CT) -0.24 23-24 >610 360		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH	Horz(CT) 0.02 14 n/a n/a		
				Weight: 115 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP SS(flat) *Except* B2: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-21.
WEBS 2x4 SP No.3(flat)	

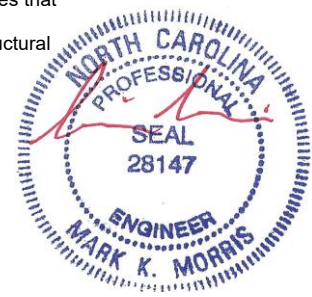
REACTIONS. (lb/size) 27=502/0-3-6 (min. 0-1-8), 14=434/0-3-8 (min. 0-1-8), 20=2251/0-3-8 (min. 0-1-8)
Max Grav 27=521(LC 3), 14=447(LC 7), 20=2251(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 27-28=-519/0, 1-28=-518/0, 13-14=-448/0, 1-2=-577/0, 2-3=-1308/0, 3-4=-1469/0,
4-5=-1180/0, 5-6=-366/248, 6-7=0/519, 7-8=-624/0, 8-9=-1043/0, 9-10=-1043/0,
10-11=-956/0, 11-12=-956/0, 12-13=-268/0
BOT CHORD 25-26=0/1070, 24-25=0/1544, 23-24=0/1180, 22-23=0/1180, 21-22=0/1180, 20-21=-473/0,
19-20=0/392, 18-19=0/951, 17-18=0/951, 16-17=0/1107, 15-16=0/707
WEBS 4-23=-315/0, 5-22=0/354, 6-20=-450/0, 1-26=0/697, 2-26=-642/0, 2-25=0/310,
3-25=-306/0, 4-24=0/445, 5-21=-1099/0, 6-21=0/614, 7-19=0/416, 8-19=-488/0,
12-16=0/318, 12-15=-571/0, 13-15=0/467, 7-20=-1877/0

- NOTES-** (6-7)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 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.
 - 6) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 7) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-27=-8, 1-13=-80
Concentrated Loads (lb)
Vert: 7=-1280
- 2) Dead: Lumber Increase=1.00, Plate Increase=1.00



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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F206	Floor	1	1	Job Reference (optional) # 55565

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LOAD CASE(S) Standard

- Uniform Loads (plf)
 - Vert: 14-27=-8, 1-13=-80
- Concentrated Loads (lb)
 - Vert: 7=-1280
- 3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-27=-8, 1-6=-80, 6-13=-16
 - Concentrated Loads (lb)
 - Vert: 7=-1280
- 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-27=-8, 1-6=-16, 6-13=-80
 - Concentrated Loads (lb)
 - Vert: 7=-1280
- 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-27=-8, 1-6=-80, 6-13=-16
 - Concentrated Loads (lb)
 - Vert: 7=-1280
- 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-27=-8, 1-6=-16, 6-13=-80
 - Concentrated Loads (lb)
 - Vert: 7=-1280
- 7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-27=-8, 1-5=-80, 5-6=-16, 6-13=-80
 - Concentrated Loads (lb)
 - Vert: 7=-1280
- 8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-27=-8, 1-4=-16, 4-13=-80
 - Concentrated Loads (lb)
 - Vert: 7=-1280
- 9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-27=-8, 1-5=-80, 5-6=-16, 6-13=-80
 - Concentrated Loads (lb)
 - Vert: 7=-1280
- 10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-27=-8, 1-4=-16, 4-13=-80
 - Concentrated Loads (lb)
 - Vert: 7=-1280



12/21/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F206A	Floor	2	1	# 55565

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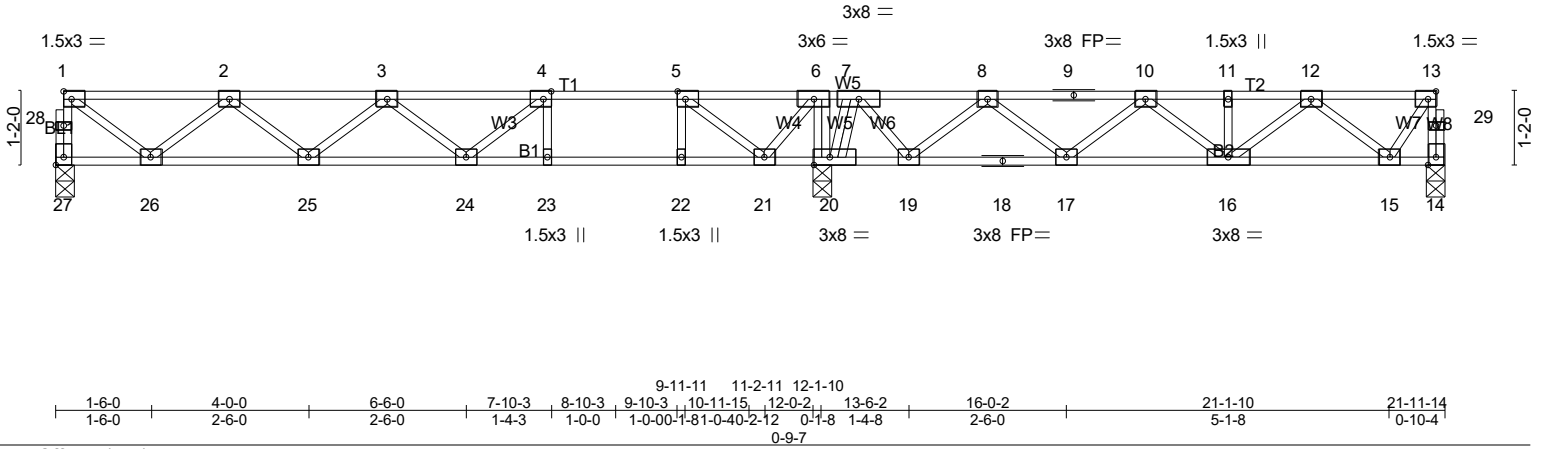
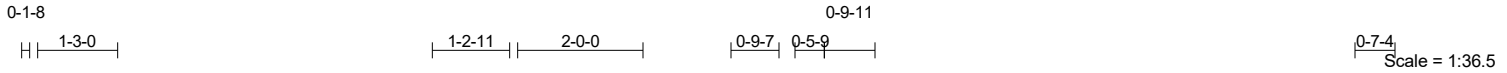


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [13:0-1-8,Edge], [20:0-3-0,Edge], [27:Edge,0-1-8]					
LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.77	Vert(LL) -0.17 23-24	>845 480
TCDL 10.0	Lumber DOL	1.00	BC 0.72	Vert(CT) -0.24 23-24	>610 360
BCLL 0.0	Rep Stress Incr	NO	WB 0.33	Horz(CT) 0.02 14	n/a n/a
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH		
					PLATES MT20
					GRIP 244/190
					Weight: 115 lb FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP SS(flat) *Except*
 B2: 2x4 SP No.1(flat)
 WEBS 2x4 SP No.3(flat)

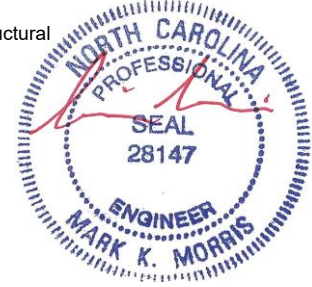
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-21.

REACTIONS. (lb/size) 27=502/0-3-6 (min. 0-1-8), 14=429/0-3-8 (min. 0-1-8), 20=2251/0-3-8 (min. 0-1-8)
 Max Grav 27=521(LC 3), 14=442(LC 7), 20=2251(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 27-28=-519/0, 1-28=-518/0, 14-29=-444/0, 13-29=-443/0, 1-2=-577/0, 2-3=-1308/0,
 3-4=-1469/0, 4-5=-1180/0, 5-6=-366/248, 6-7=0/519, 7-8=-624/0, 8-9=-1043/0,
 9-10=-1043/0, 10-11=-956/0, 11-12=-956/0, 12-13=-270/0
 BOT CHORD 25-26=0/1070, 24-25=0/1544, 23-24=0/1180, 22-23=0/1180, 21-22=0/1180, 20-21=-472/0,
 19-20=0/392, 18-19=0/951, 17-18=0/951, 16-17=0/1107, 15-16=0/705
 WEBS 4-23=-315/0, 5-22=0/354, 6-20=-450/0, 1-26=0/697, 2-26=-642/0, 2-25=0/310,
 3-25=-306/0, 4-24=0/445, 5-21=-1099/0, 6-21=0/614, 7-19=0/416, 8-19=-488/0,
 12-16=0/321, 12-15=-567/0, 13-15=0/451, 7-20=-1877/0

- NOTES-** (6-7)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 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.
 - 6) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 7) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 14-27=-8, 1-13=-80
 Concentrated Loads (lb)
 Vert: 7=-1280
 2) Dead: Lumber Increase=1.00, Plate Increase=1.00



Continued on page 2

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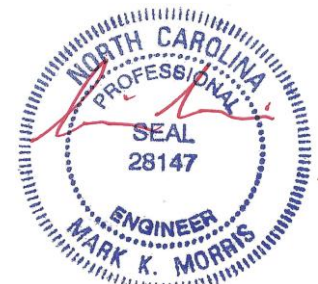
Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F206A	Floor	2	1	Job Reference (optional) # 55565

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LOAD CASE(S) Standard

- Uniform Loads (plf)
 - Vert: 14-27=-8, 1-13=-80
- Concentrated Loads (lb)
 - Vert: 7=-1280
- 3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-27=-8, 1-6=-80, 6-13=-16
 - Concentrated Loads (lb)
 - Vert: 7=-1280
- 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-27=-8, 1-6=-16, 6-13=-80
 - Concentrated Loads (lb)
 - Vert: 7=-1280
- 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-27=-8, 1-6=-80, 6-13=-16
 - Concentrated Loads (lb)
 - Vert: 7=-1280
- 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-27=-8, 1-6=-16, 6-13=-80
 - Concentrated Loads (lb)
 - Vert: 7=-1280
- 7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-27=-8, 1-5=-80, 5-6=-16, 6-13=-80
 - Concentrated Loads (lb)
 - Vert: 7=-1280
- 8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-27=-8, 1-4=-16, 4-13=-80
 - Concentrated Loads (lb)
 - Vert: 7=-1280
- 9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-27=-8, 1-5=-80, 5-6=-16, 6-13=-80
 - Concentrated Loads (lb)
 - Vert: 7=-1280
- 10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 14-27=-8, 1-4=-16, 4-13=-80
 - Concentrated Loads (lb)
 - Vert: 7=-1280



12/21/2024

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Job 24-B592-F02	Truss F207	Truss Type Floor	Qty 5	Ply 1	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC Job Reference (optional) # 55565
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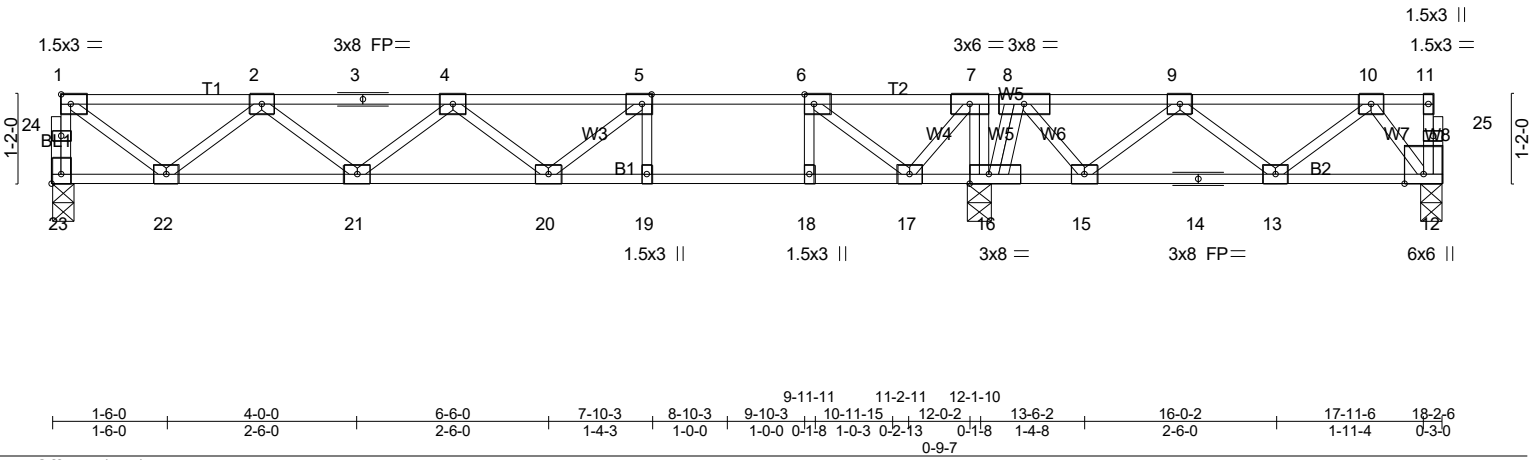
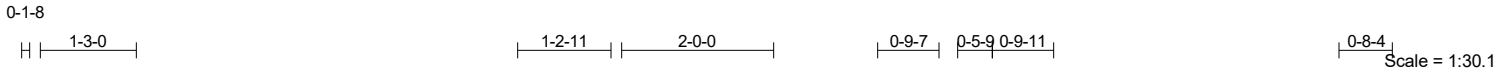


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [16:0-3-0,Edge], [23:Edge,0-1-8]

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 0.72	Vert(LL)	-0.17 19-20	>877	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.69	Vert(CT)	-0.23 19-20	>636	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.34	Horz(CT)	0.02 12	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 95 lb	FT = 20%F, 11%E

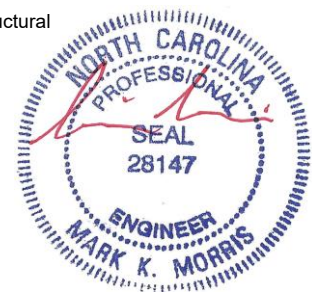
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP SS(flat) *Except* B2: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 23=527/0-3-6 (min. 0-1-8), 12=322/0-3-8 (min. 0-1-8), 16=1999/0-3-8 (min. 0-1-8)
Max Grav 23=532(LC 3), 12=347(LC 7), 16=1999(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 23-24=-529/0, 1-24=-528/0, 1-2=-590/0, 2-3=-1347/0, 3-4=-1347/0, 4-5=-1532/0,
5-6=-1266/0, 6-7=-477/0, 7-8=-107/260, 8-9=-643/0, 9-10=-495/0
BOT CHORD 21-22=0/1096, 20-21=0/1593, 19-20=0/1266, 18-19=0/1266, 17-18=0/1266, 15-16=0/615,
14-15=0/687, 13-14=0/687, 12-13=0/275
WEBS 5-19=-284/0, 6-18=0/322, 7-16=-447/0, 1-22=0/713, 2-22=-659/0, 2-21=0/326,
4-21=-320/0, 5-20=0/371, 6-17=-1023/0, 7-17=0/582, 9-13=-250/0, 10-13=0/286,
10-12=-449/0, 8-16=-1618/0

- NOTES-** (6-7)
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 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.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-23=-8, 1-11=-80
Concentrated Loads (lb)
Vert: 8=-1280
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-23=-8, 1-11=-80



Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F207	Floor	5	1	Job Reference (optional) # 55565

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LOAD CASE(S) Standard

- Concentrated Loads (lb)
Vert: 8=-1280
- 3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-23=-8, 1-7=-80, 7-11=-16
Concentrated Loads (lb)
Vert: 8=-1280
- 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-23=-8, 1-7=-16, 7-11=-80
Concentrated Loads (lb)
Vert: 8=-1280
- 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-23=-8, 1-7=-80, 7-11=-16
Concentrated Loads (lb)
Vert: 8=-1280
- 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-23=-8, 1-7=-16, 7-11=-80
Concentrated Loads (lb)
Vert: 8=-1280
- 7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-23=-8, 1-6=-80, 6-7=-16, 7-11=-80
Concentrated Loads (lb)
Vert: 8=-1280
- 8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-23=-8, 1-5=-16, 5-11=-80
Concentrated Loads (lb)
Vert: 8=-1280
- 9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-23=-8, 1-6=-80, 6-7=-16, 7-11=-80
Concentrated Loads (lb)
Vert: 8=-1280
- 10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-23=-8, 1-5=-16, 5-11=-80
Concentrated Loads (lb)
Vert: 8=-1280



12/21/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F209	Floor Supported Gable	1	1	# 55565

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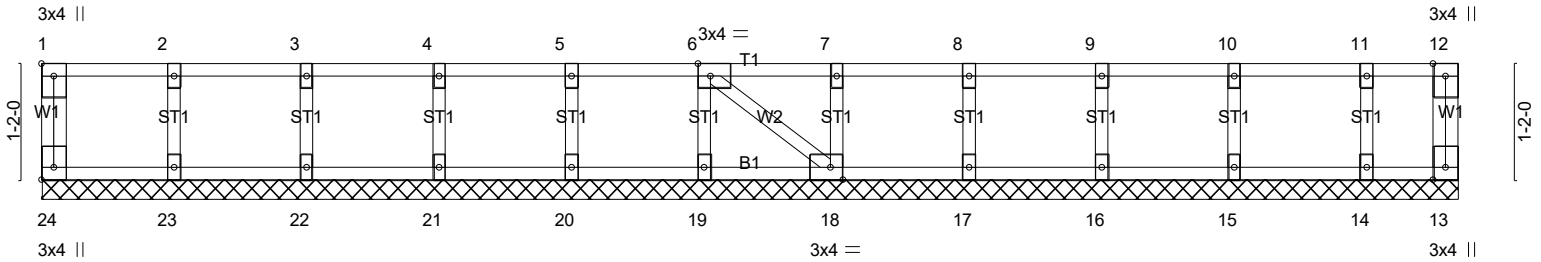


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [18:0-1-8,Edge], [24:Edge,0-1-8]	
LOADING (psf)	SPACING- 1-7-3
TCLL 40.0	Plate Grip DOL 1.00
TCDL 10.0	Lumber DOL 1.00
BCLL 0.0	Rep Stress Incr YES
BCDL 5.0	Code IRC2021/TPI2014
CSL	DEFL. in (loc) l/defl L/d
TC 0.05	Vert(LL) n/a - n/a 999
BC 0.01	Vert(CT) n/a - n/a 999
WB 0.03	Horz(CT) 0.00 17 n/a n/a
Matrix-SH	
PLATES	GRIP
MT20	244/190
Weight: 64 lb FT = 20%F, 11%E	

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

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

REACTIONS. All bearings 14-3-0.
 (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-** (6-7)
- 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.
 - 6) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 7) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard

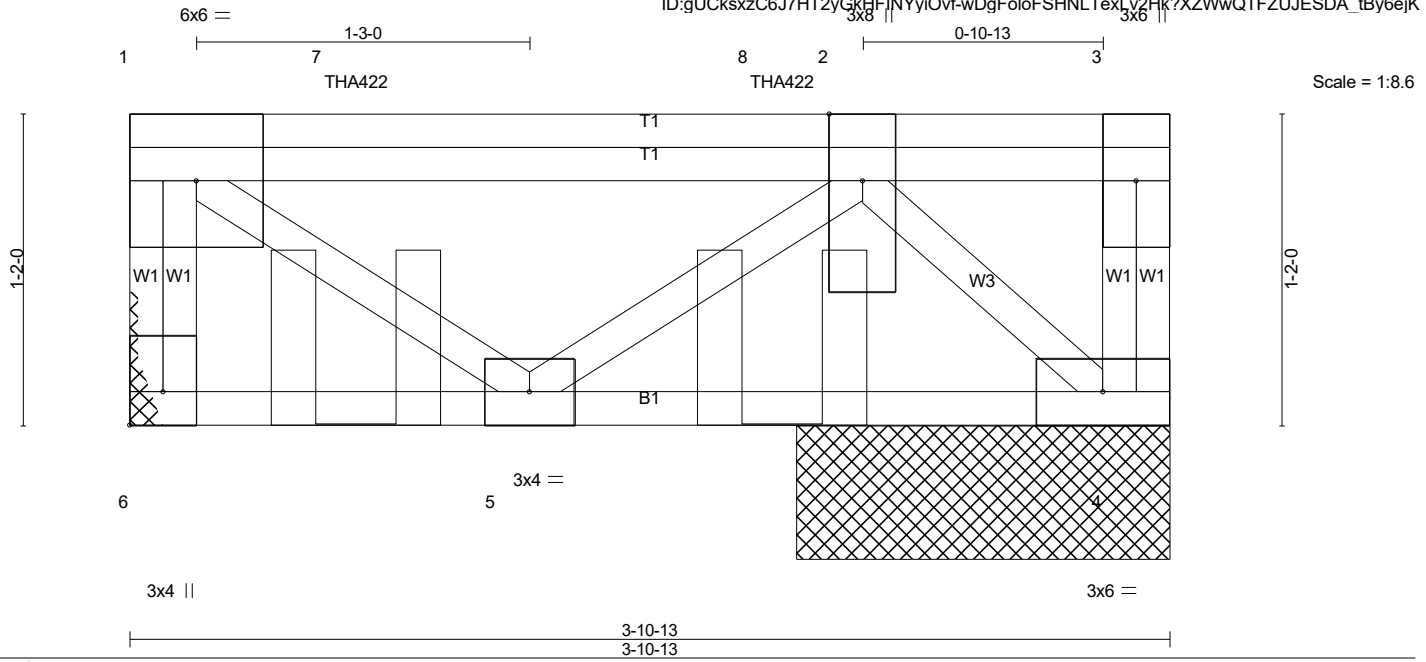


12/21/2024

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Job 24-B592-F02	Truss F211	Truss Type FLOOR GIRDER	Qty 1	Ply 1	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC	Job Reference (optional) # 55565
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Scale = 1:8.6

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

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 0.77	Vert(LL)	-0.00	5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.25	Vert(CT)	-0.01	4-5	>999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.36	Horz(CT)	0.00	4	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-P						
								Weight: 28 lb	FT = 20%F, 11%E

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

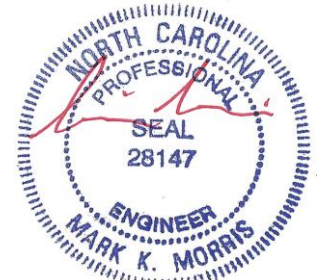
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=1059/Mechanical, 4=803/1-4-13 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1053/0, 3-4=0/283, 1-7=-599/0, 7-8=-599/0, 2-8=-599/0
BOT CHORD 4-5=0/1127
WEBS 1-5=0/735, 2-5=-671/0, 2-4=-1558/0

- NOTES-** (6-7)
- 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.
 - 3) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 1-7-3 oc max. starting at 0-10-3 from the left end to 2-5-6 to connect truss(es) F216 (1 ply 2x4 SP) to back face of top chord.
 - 4) Fill all nail holes where hanger is in contact with lumber.
 - 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - 6) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 7) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-6=-8, 1-3=-80
Concentrated Loads (lb)
Vert: 7=-772(B) 8=-769(B)



12/21/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F212	FLOOR SUPPORTED GABL	1	1	Job Reference (optional) # 55565

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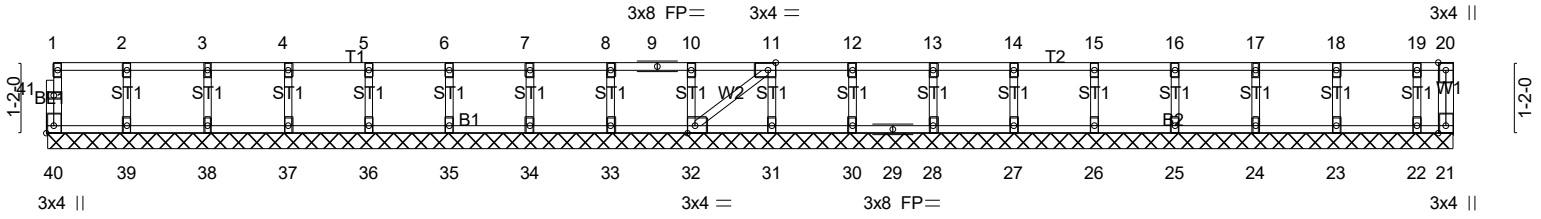


Plate Offsets (X,Y)-- [11:0-1-8,Edge], [32:0-1-8,Edge], [40:Edge,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.04	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.00	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr YES	WB 0.02	Horz(CT)	0.00	21	n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH						

Weight: 100 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(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 23-3-4.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 28, 27, 26, 25, 24, 23, 22

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

- NOTES-** (7-8)
- All plates are 1.5x3 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.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



12/21/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F213	Floor	4	1	# 55565

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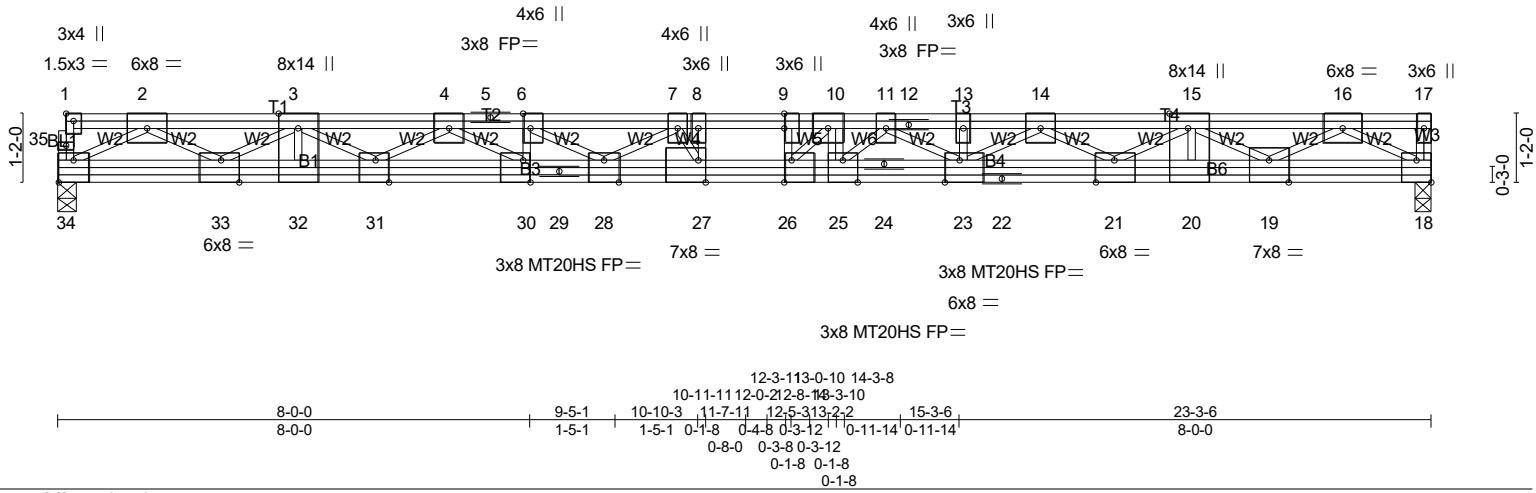
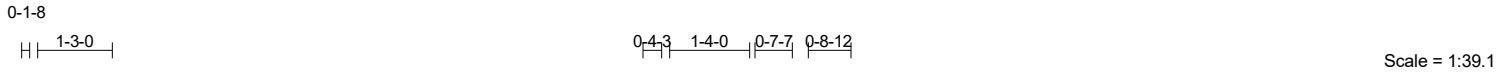


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-3-0,Edge], [9:0-3-0,0-0-0], [15:0-3-0,Edge], [18:Edge,0-4-8], [19:0-4-0,Edge], [21:0-3-12,Edge], [23:0-3-0,Edge], [25:0-3-0,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [28:0-3-0,Edge], [30:0-1-8,Edge], [31:0-2-12,Edge], [33:0-3-12,Edge], [34:Edge,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-0-0	TC 0.43	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.56	Vert(LL) -0.24 27 >999 480	MT20HS	187/143
BCLL 0.0	Lumber DOL 1.00	WB 0.86	Vert(CT) -0.75 26 >371 360		
BCLL 0.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.06 18 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014				Weight: 216 lb FT = 20%F, 11%E

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

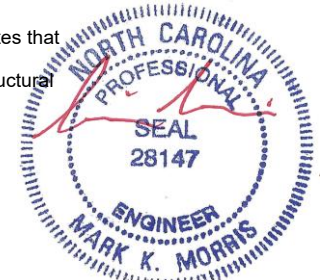
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-5-9 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 18=1200/0-3-8 (min. 0-1-8), 34=1064/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2921/0, 3-4=-5445/0, 4-5=-7586/0, 5-6=-7586/0, 6-7=-8296/0, 7-8=-9749/0, 8-9=-9749/0, 9-10=-9749/0, 10-11=-10346/0, 11-12=-8689/0, 12-13=-8689/0, 13-14=-8689/0, 14-15=-6248/0, 15-16=-3316/0
 BOT CHORD 33-34=0/1610, 32-33=0/4330, 31-32=0/4330, 30-31=0/6573, 29-30=0/7586, 28-29=0/7586, 27-28=0/9386, 26-27=0/9749, 25-26=0/10366, 24-25=0/9816, 23-24=0/9816, 22-23=0/7542, 21-22=0/7542, 20-21=0/4928, 19-20=0/4928, 18-19=0/1819
 WEBS 10-25=-463/0, 8-27=-339/0, 2-34=-1894/0, 2-33=0/1587, 3-33=-1681/0, 3-31=0/1330, 4-31=-1367/0, 4-30=0/1209, 6-30=-532/0, 6-28=0/898, 10-26=-1151/0, 16-18=-2142/0, 16-19=0/1812, 15-19=-1924/0, 15-21=0/1575, 14-21=-1567/0, 14-23=0/1368, 11-23=-1344/0, 11-25=0/849, 7-28=-1423/0, 7-27=0/1074

- NOTES-** (7-8)
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 6x6 MT20 unless otherwise indicated.
 - Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Required 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.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 18-34=-5, 1-17=-50
 Concentrated Loads (lb)
 Vert: 10=-1000



Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F213	Floor	4	1	Job Reference (optional) # 55565

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Dec 21 20:30:18 2024 Page 2
ID:gUCksxzC6J7HT2yGkHFINYyiOvf-OPEd05ptDaVC5oWXtIpyYl6mqkflphOgtvXQdy6ejJ

LOAD CASE(S) Standard

- 2) Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 18-34=-5, 1-17=-50
 - Concentrated Loads (lb)
 - Vert: 10=-1000
- 3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 18-34=-5, 1-9=-50, 9-17=-10
 - Concentrated Loads (lb)
 - Vert: 10=-1000
- 4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 18-34=-5, 1-8=-10, 8-17=-50
 - Concentrated Loads (lb)
 - Vert: 10=-1000
- 5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 18-34=-5, 1-9=-50, 9-17=-10
 - Concentrated Loads (lb)
 - Vert: 10=-1000
- 6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 18-34=-5, 1-8=-10, 8-17=-50
 - Concentrated Loads (lb)
 - Vert: 10=-1000



12/21/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F214	Floor	7	1	# 55565

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Dec 21 20:30:19 2024 Page 1
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0-1-8
 || 1-3-0 || 0-4-3 1-4-0 0-7-7 0-5-4
 Scale = 1:38.6

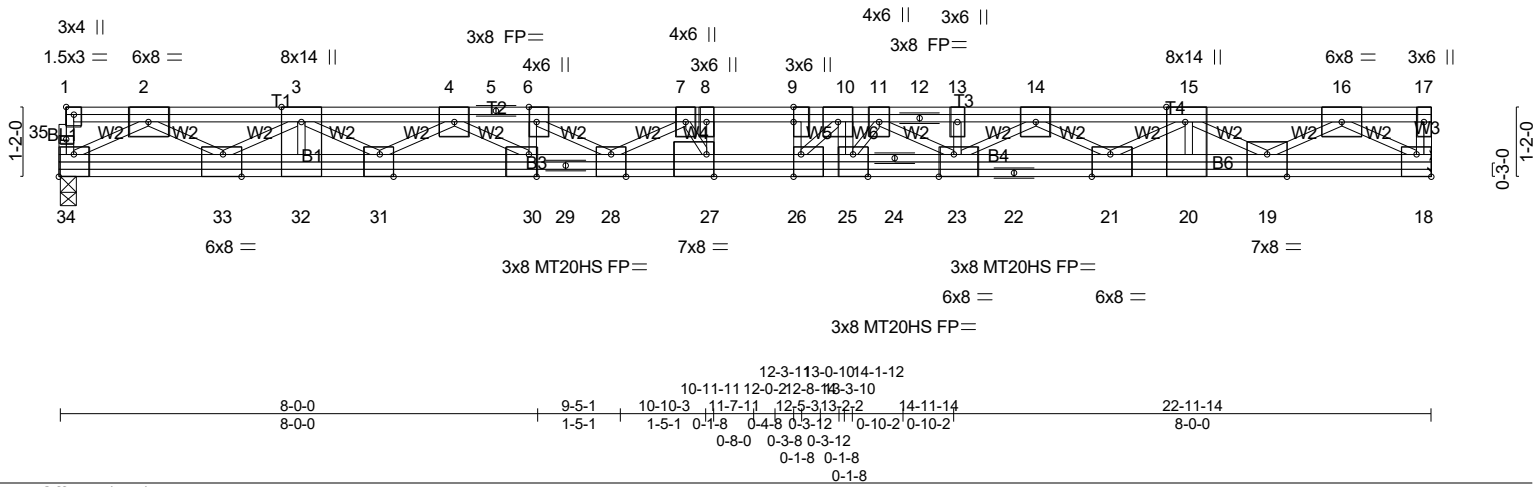


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-3-0,Edge], [9:0-3-0,0-0-0], [15:0-3-0,Edge], [18:Edge,0-4-8], [19:0-4-0,Edge], [21:0-3-12,Edge], [23:0-3-0,Edge], [25:0-3-0,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [28:0-3-0,Edge], [30:0-1-8,Edge], [31:0-2-12,Edge], [33:0-3-12,Edge], [34:Edge,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Grip DOL 1.00	TC 0.43	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.87	Vert(LL) -0.24 27 >999 480	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.87	Vert(CT) -0.74 26 >367 360		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH	Horz(CT) 0.06 18 n/a n/a		
				Weight: 214 lb	FT = 20%F, 11%E

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

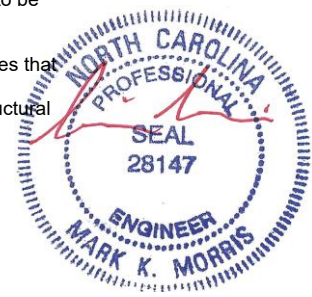
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-6-10 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 34=1048/0-3-6 (min. 0-1-8), 18=1199/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2884/0, 3-4=-5367/0, 4-5=-7456/0, 5-6=-7456/0, 6-7=-8167/0, 7-8=-9566/0,
 8-9=-9566/0, 9-10=-9566/0, 10-11=-10146/0, 11-12=-8699/0, 12-13=-8699/0,
 13-14=-8699/0, 14-15=-6258/0, 15-16=-3323/0
 BOT CHORD 33-34=0/1591, 32-33=0/4260, 31-32=0/4260, 30-31=0/6467, 29-30=0/7456, 28-29=0/7456,
 27-28=0/9209, 26-27=0/9566, 25-26=0/10162, 24-25=0/9809, 23-24=0/9809, 22-23=0/7547,
 21-22=0/7547, 20-21=0/4924, 19-20=0/4924, 18-19=0/1822
 WEBS 10-25=-462/0, 8-27=-371/0, 2-34=-1870/0, 2-33=0/1566, 3-33=-1643/0, 3-31=0/1320,
 4-31=-1333/0, 4-30=0/1180, 6-30=-536/0, 6-28=0/897, 10-26=-1126/0, 16-18=-2145/0,
 16-19=0/1817, 15-19=-1910/0, 15-21=0/1591, 14-21=-1561/0, 14-23=0/1375, 11-23=-1331/0,
 11-25=0/710, 7-28=-1370/0, 7-27=0/1067

- NOTES-** (8-9)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 6x6 MT20 unless otherwise indicated.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 6) Required 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.
 - 8) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 9) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 18-34=-5, 1-17=-50



Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F214	Floor	7	1	Job Reference (optional) # 55565

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LOAD CASE(S) Standard

- Concentrated Loads (lb)
Vert: 10=-1000
- 2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 18-34=-5, 1-17=-50
Concentrated Loads (lb)
Vert: 10=-1000
- 3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 18-34=-5, 1-9=-50, 9-17=-10
Concentrated Loads (lb)
Vert: 10=-1000
- 4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 18-34=-5, 1-8=-10, 8-17=-50
Concentrated Loads (lb)
Vert: 10=-1000
- 5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 18-34=-5, 1-9=-50, 9-17=-10
Concentrated Loads (lb)
Vert: 10=-1000
- 6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 18-34=-5, 1-8=-10, 8-17=-50
Concentrated Loads (lb)
Vert: 10=-1000

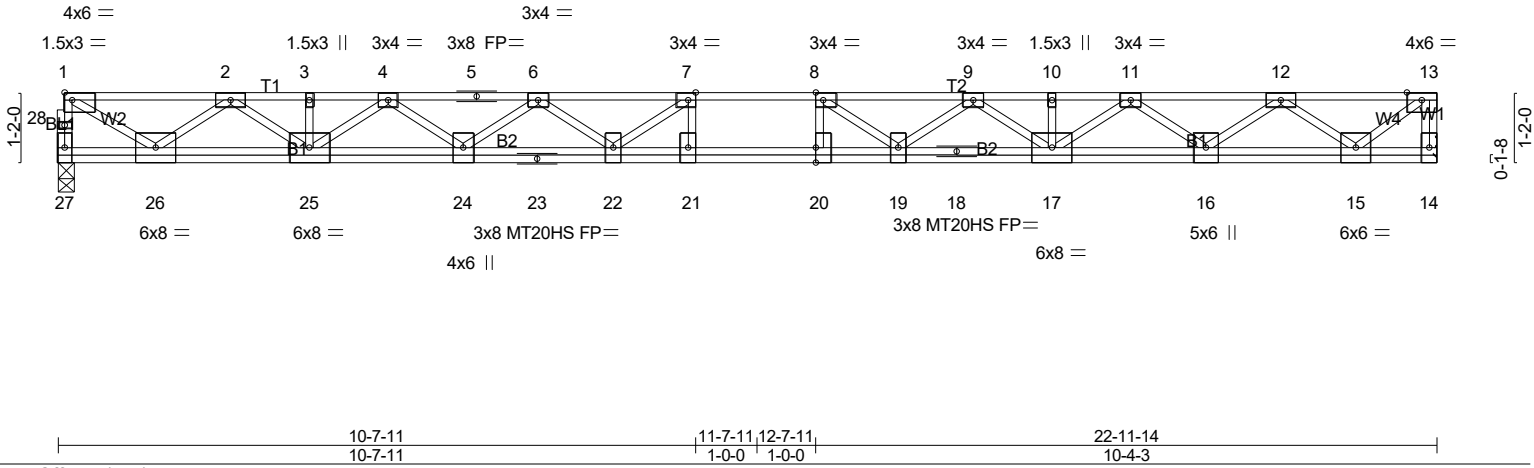
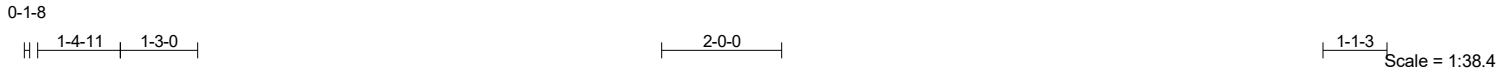


12/21/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F214A	Floor	4	1	Job Reference (optional) # 55565

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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.76	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.40	Vert(LL) -0.50 20-21 >548 480	MT20HS	187/143
BCLL 0.0	Lumber DOL 1.00	WB 0.76	Vert(CT) -0.68 20-21 >399 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.05 14 n/a n/a		
	Code IRC2021/TPI2014				Weight: 147 lb FT = 20%F, 11%E

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-5-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 27=995/0-3-6 (min. 0-1-8), 14=1000/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 27-28=-978/0, 1-28=-977/0, 13-14=-984/0, 1-2=-1379/0, 2-3=-3366/0, 3-4=-3366/0,
 4-5=-4723/0, 5-6=-4723/0, 6-7=-5476/0, 7-8=-5728/0, 8-9=-5411/0, 9-10=-4584/0,
 10-11=-4584/0, 11-12=-3122/0, 12-13=-1131/0
 BOT CHORD 25-26=0/2500, 24-25=0/4178, 23-24=0/5235, 22-23=0/5235, 21-22=0/5728, 20-21=0/5728,
 19-20=0/5728, 18-19=0/5131, 17-18=0/5131, 16-17=0/3948, 15-16=0/2272
 WEBS 7-21=-259/279, 8-20=-234/305, 7-22=-675/158, 6-22=0/437, 6-24=-651/0, 4-24=0/691,
 4-25=-1013/0, 2-25=0/1081, 2-26=-1423/0, 1-26=0/1588, 8-19=-727/102, 9-19=0/468,
 9-17=-682/0, 11-17=0/794, 11-16=-1049/0, 12-16=0/1079, 12-15=-1450/0, 13-15=0/1448

- NOTES-** (7-8)
- 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) Refer to girder(s) for truss to truss connections.
 - 5) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.
 - 7) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 8) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F215	FLOOR GIRDER	1	2	# 55565

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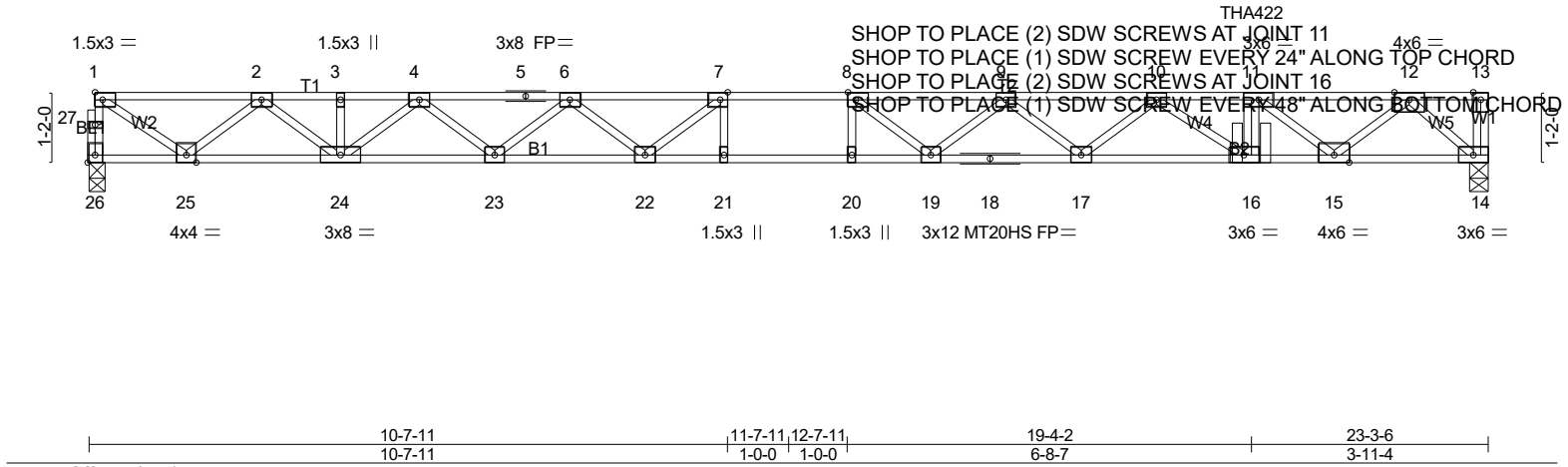
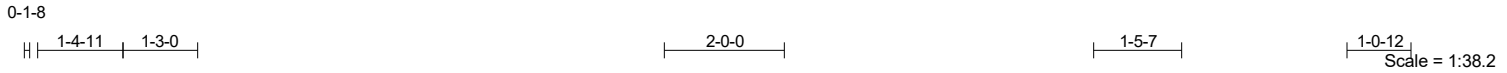


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [8:0-1-8,Edge], [26:Edge,0-1-8]	
LOADING (psf)	SPACING- 1-7-3
TCLL 40.0	Plate Grip DOL 1.00
TCDL 10.0	Lumber DOL 1.00
BCLL 0.0	Rep Stress Incr NO
BCDL 5.0	Code IRC2021/TPI2014
CSL	Matrix-SH
DEFL. in (loc) l/defl L/d	PLATES GRIP
Vert(LL) -0.45 20 >614 480	MT20 244/190
Vert(CT) -0.62 19-20 >444 360	MT20HS 187/143
Horz(CT) 0.08 14 n/a n/a	Weight: 236 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP SS(flat) *Except* B2: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 26=1173/0-3-6 (min. 0-1-8), 14=1843/0-3-8 (min. 0-1-8)

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

TOP CHORD 26-27=-1167/0, 1-27=-1165/0, 1-2=-1569/0, 2-3=-3885/0, 3-4=-3885/0, 4-5=-5599/0, 5-6=-5599/0, 6-7=-6755/0, 7-8=-7372/0, 8-9=-7494/0, 9-10=-7137/0, 10-11=-6133/0, 11-12=-4017/0

BOT CHORD 24-25=0/2839, 23-24=0/4880, 22-23=0/6279, 21-22=0/7372, 20-21=0/7372, 19-20=0/7372, 18-19=0/7471, 17-18=0/7471, 16-17=0/6785, 15-16=0/6133, 14-15=0/2068

WEBS 11-16=0/438, 7-21=0/406, 8-20=-378/2, 7-22=-1118/0, 6-22=0/778, 6-23=-885/0, 4-23=0/936, 4-24=-1270/0, 2-24=0/1335, 2-25=-1652/0, 1-25=0/1845, 8-19=-150/601, 9-17=-434/0, 10-17=0/458, 10-16=-782/0, 11-15=-2654/0, 12-15=0/2537, 12-14=-2751/0

- NOTES-** (10-11)
- 1) Fasten trusses together to act as a single unit as per standard industry detail, or loads are to be evenly applied to all plies.
 - 2) Unbalanced floor live loads have been considered for this design.
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) All plates are 3x4 MT20 unless otherwise indicated.
 - 5) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.
 - 7) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 19-4-2 from the left end to connect truss(es) F211 (1 ply 2x4 SP) to back face of top chord.
 - 8) Fill all nail holes where hanger is in contact with lumber.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - 10) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 14-26=-8, 1-13=-80



Continued on page 2 12/21/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F215	FLOOR GIRDER	1	2	Job Reference (optional) # 55565

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 11=-996(B)

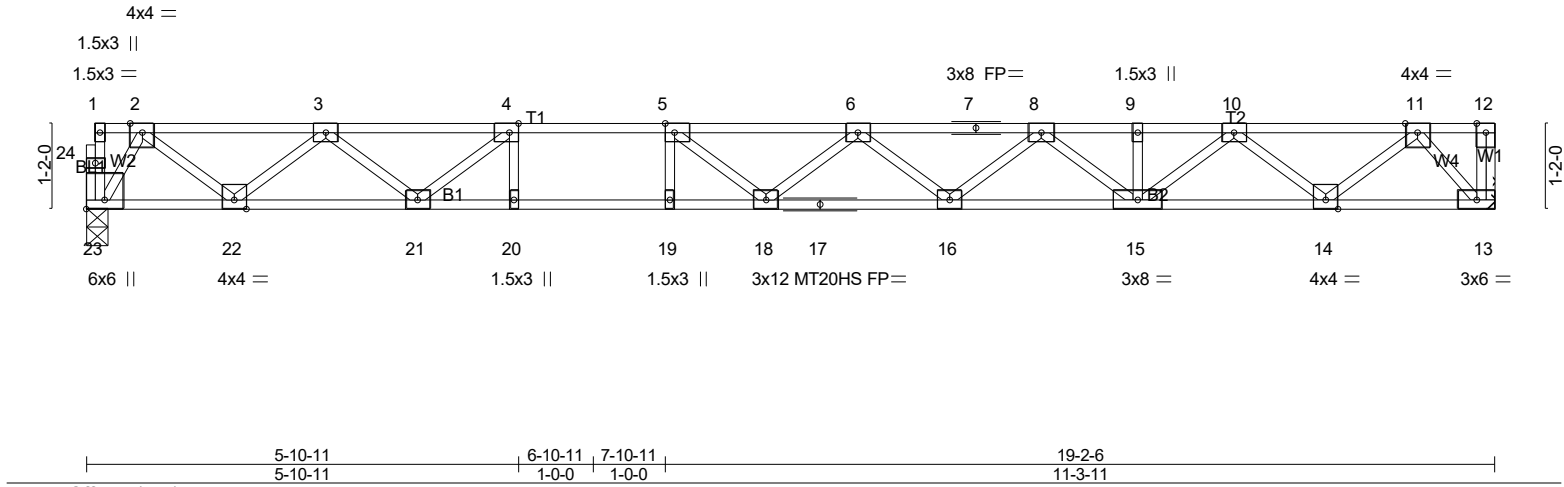


12/21/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F216	Floor	2	1	# 55565

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Dec 21 20:30:20 2024 Page 1
 ID:gUCksxzC6J7HT2yGkHFINYiOvf-KoLORnq7IClwK5gwaArRdAB?OdKlmpvh8BOeUWY6ejH



LOADING (psf)	SPACING-	1-7-3	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.88	Vert(LL)	-0.40	18-19	>575	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.93	Vert(CT)	-0.54	18-19	>418	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.06	13	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 97 lb FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP SS(flat) *Except*
 B2: 2x4 SP No.1(flat)
 WEBS 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 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 19-20.

REACTIONS. (lb/size) 23=828/0-3-6 (min. 0-1-8), 13=833/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1336/0, 3-4=-2669/0, 4-5=-3450/0, 5-6=-3738/0, 6-7=-3556/0, 7-8=-3556/0,
 8-9=-2838/0, 9-10=-2838/0, 10-11=-1514/0
 BOT CHORD 22-23=0/534, 21-22=0/2092, 20-21=0/3450, 19-20=0/3450, 18-19=0/3450, 17-18=0/3812,
 16-17=0/3812, 15-16=0/3296, 14-15=0/2268, 13-14=0/736
 WEBS 4-20=0/378, 5-19=-352/0, 4-21=-1051/0, 3-21=0/751, 3-22=-984/0, 2-22=0/1044,
 2-23=-1025/0, 5-18=-125/535, 6-16=-333/0, 8-16=0/339, 8-15=-584/0, 10-15=0/728,
 10-14=-982/0, 11-14=0/1012, 11-13=-1104/0

- NOTES-** (7-8)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.
 - 7) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 8) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard

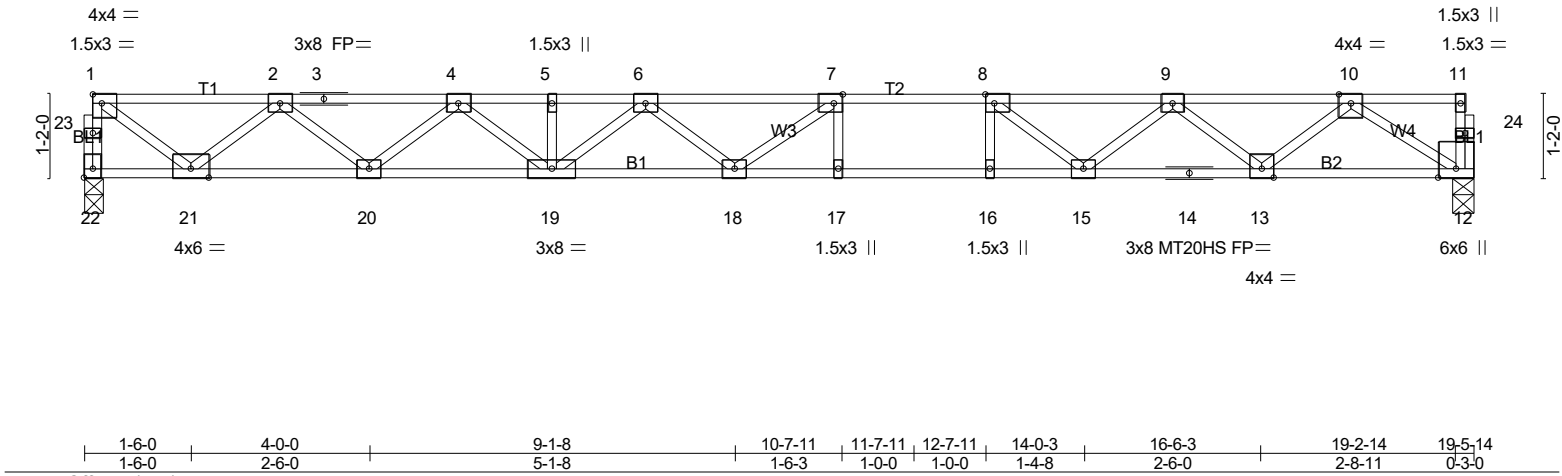
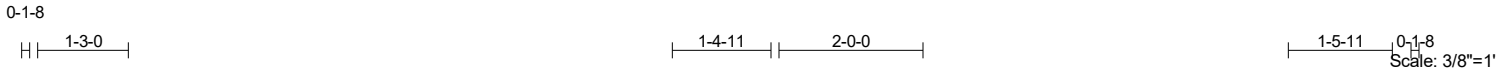


12/21/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F217	Floor	4	1	Job Reference (optional) # 55565

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Dec 21 20:30:21 2024 Page 1
ID:gUCksxC6J7HT2yGkHFINYyiOvf-p_vme6rmWVunyFF68uMg9NkDu1i5VEwqNr8B1yy6ejG



LOADING (psf)		SPACING-		CSL		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.38 17-18 >609 480	MT20	244/190		
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.52 17-18 >444 360	MT20HS	187/143		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.07 12 n/a n/a	Weight: 97 lb FT = 20%F, 11%E			
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP SS(flat) *Except*
B2: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 22=841/0-3-6 (min. 0-1-8), 12=841/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 22-23=-836/0, 1-23=-835/0, 1-2=-998/0, 2-3=-2487/0, 3-4=-2487/0, 4-5=-3454/0,
5-6=-3454/0, 6-7=-3845/0, 7-8=-3728/0, 8-9=-3103/0, 9-10=-1943/0
BOT CHORD 20-21=0/1883, 19-20=0/3063, 18-19=0/3807, 17-18=0/3728, 16-17=0/3728, 15-16=0/3728,
14-15=0/2624, 13-14=0/2624, 12-13=0/1218
WEBS 7-17=-276/42, 8-16=-17/319, 1-21=0/1210, 2-21=-1152/0, 2-20=0/786, 4-20=-749/0,
4-19=0/499, 6-19=-451/0, 7-18=-270/371, 8-15=-905/0, 9-15=0/643, 9-13=-887/0,
10-13=0/943, 10-12=-1451/0

- NOTES-** (5-6)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 6) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard

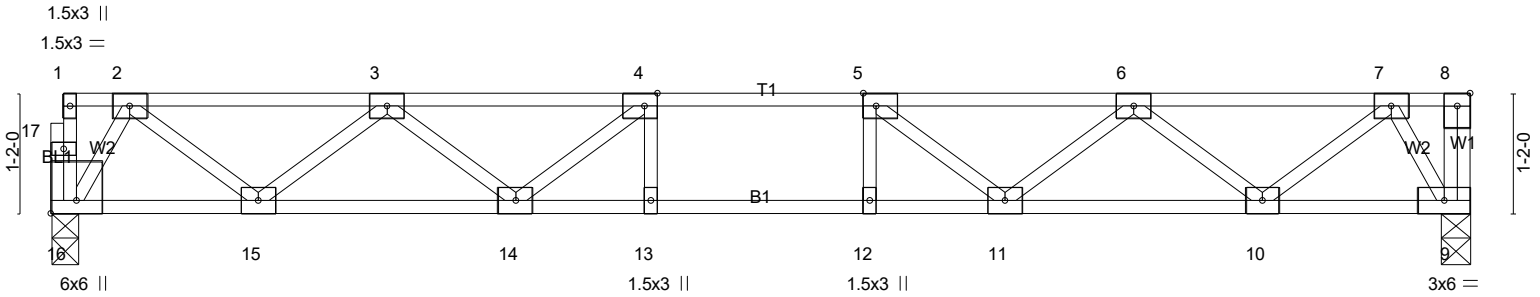
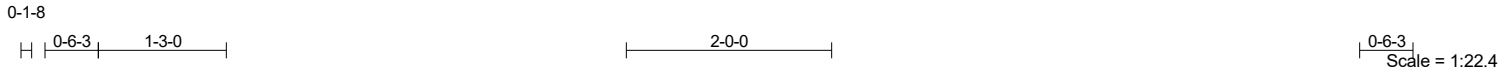


12/21/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F218	Floor	13	1	Job Reference (optional) # 55565

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Dec 21 20:30:21 2024 Page 1
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5-10-11	6-10-11	7-10-11	13-9-6
5-10-11	1-0-0	1-0-0	5-10-11
Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [16:Edge,0-3-0]			

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.26	Vert(LL)	-0.09	11-12	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.52	Vert(CT)	-0.12	11-12	>999		
BCLL 0.0	Lumber DOL 1.00	WB 0.33	Horz(CT)	0.03	9	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH						
	Code IRC2021/TPI2014							
							Weight: 70 lb	FT = 20%F, 11%E

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

REACTIONS. (lb/size) 16=590/0-3-6 (min. 0-1-8), 9=595/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-906/0, 3-4=-1665/0, 4-5=-1910/0, 5-6=-1665/0, 6-7=-906/0
 BOT CHORD 15-16=0/376, 14-15=0/1413, 13-14=0/1910, 12-13=0/1910, 11-12=0/1910, 10-11=0/1413, 9-10=0/376
 WEBS 4-14=-428/0, 3-14=0/355, 3-15=-660/0, 2-15=0/690, 2-16=-720/0, 5-11=-428/0, 6-11=0/355, 6-10=-660/0, 7-10=0/690, 7-9=-717/0

- NOTES-** (5-6)
- 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.
 - 5) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 6) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



12/21/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F219	FLOOR SUPPORTED GABL	1	1	Job Reference (optional) # 55565

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0-1-8

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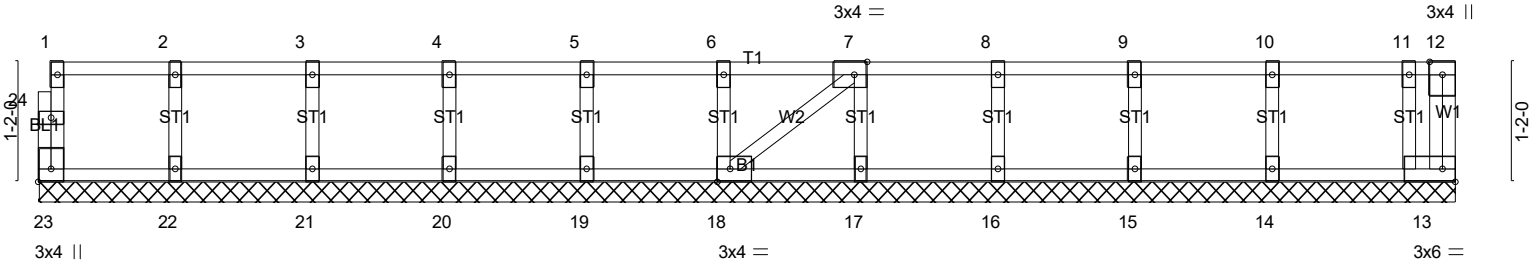


Plate Offsets (X,Y)--	[7:0-1-8,Edge], [18:0-1-8,Edge], [23:Edge,0-1-8]
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LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	13	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 62 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(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 13-9-6.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 23, 13, 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-** (7-8)
- All plates are 1.5x3 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.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



12/21/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F220	Floor	12	1	Job Reference (optional) # 55565

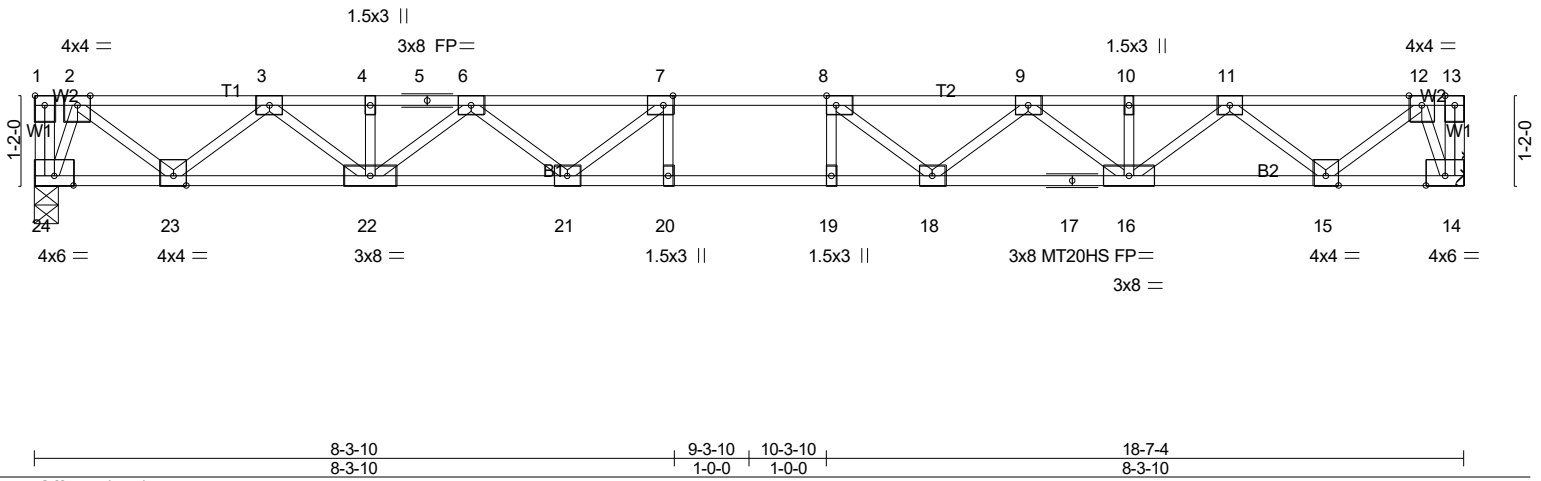
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 ID:gUCksxzC6J7HT2yGkHFINYyiOvf-p_vme6rmWVunyFF68uMg9NkHM1hxVGDqNr8B1yy6ejG

0-3-10 1-3-0

2-0-0

0-3-10

Scale = 1:30.0



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.84	Vert(LL) -0.26 19-20 >832 480	MT20HS	187/143
BCLL 0.0	Lumber DOL 1.00	WB 0.49	Vert(CT) -0.37 19-20 >603 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.06 14 n/a n/a		
	Code IRC2021/TPI2014				
				Weight: 97 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 24=807/0-3-8 (min. 0-1-8), 14=807/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1153/0, 3-4=-2517/0, 4-5=-2517/0, 5-6=-2517/0, 6-7=-3276/0, 7-8=-3528/0, 8-9=-3276/0, 9-10=-2517/0, 10-11=-2517/0, 11-12=-1153/0
 BOT CHORD 23-24=0/357, 22-23=0/1927, 21-22=0/3018, 20-21=0/3528, 19-20=0/3528, 18-19=0/3528, 17-18=0/3018, 16-17=0/3018, 15-16=0/1927, 14-15=0/357
 WEBS 7-21=-540/18, 6-21=0/429, 6-22=-640/0, 3-22=0/753, 3-23=-1007/0, 2-23=0/1036, 2-24=-942/0, 8-18=-540/18, 9-18=0/429, 9-16=-640/0, 11-16=0/753, 11-15=-1007/0, 12-15=0/1036, 12-14=-942/0

- NOTES-** (6-7)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 7) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



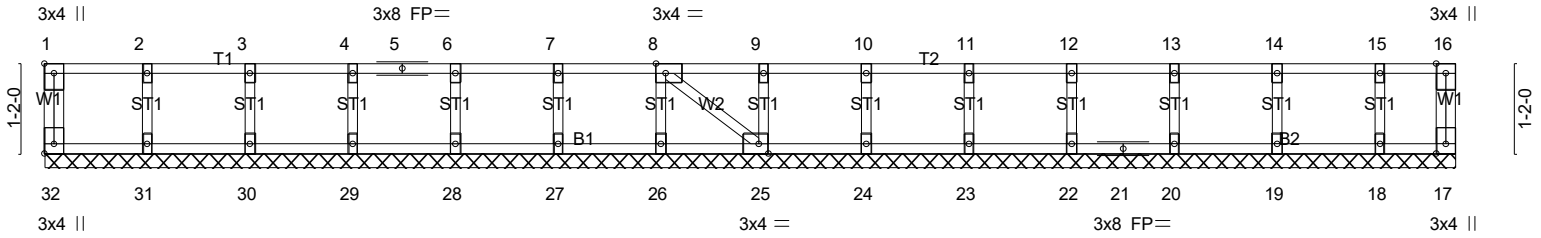
12/21/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE 231 ALDEN WAY ANGIER, NC
24-B592-F02	F221	Floor Supported Gable	1	1	Job Reference (optional) # 55565

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 ID:gUCksxzC6J7HT2yGkHFINYiOvf-HAT8sSsOHp0eZPqJibtvibGYsRDCEqn_bVtlZOy6eJF

Scale = 1:29.9



3-1-0	18-3-12
3-1-0	15-2-12
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:0-1-8,Edge], [25:0-1-8,Edge], [32:Edge,0-1-8]	

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Horz(CT)	0.00	24	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH						
	Code IRC2021/TPI2014						Weight: 80 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 10-0-0 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)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 18-3-12.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 20, 19, 18

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

- NOTES-** (7-8)
- All plates are 1.5x3 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.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



12/21/2024

Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.