Mark Morris, P.E.

#126, 1317-M, Summerville, SC 29483
843 209-5784, Fax (866)-213-4614

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 #: 54885
JOB: 24-B205-F02
JOB NAME: LOT 0.0015 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, F207, F208, F209, F210, F211, F212, F213, F214, F215, F216, F217, F218, F219, F220, F221, F223, F224, F225

12/7/2024
Mark Morris

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

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F201	Floor Supported Gable	1	1	# 54885
					Job Reference (optional)

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0-1-8

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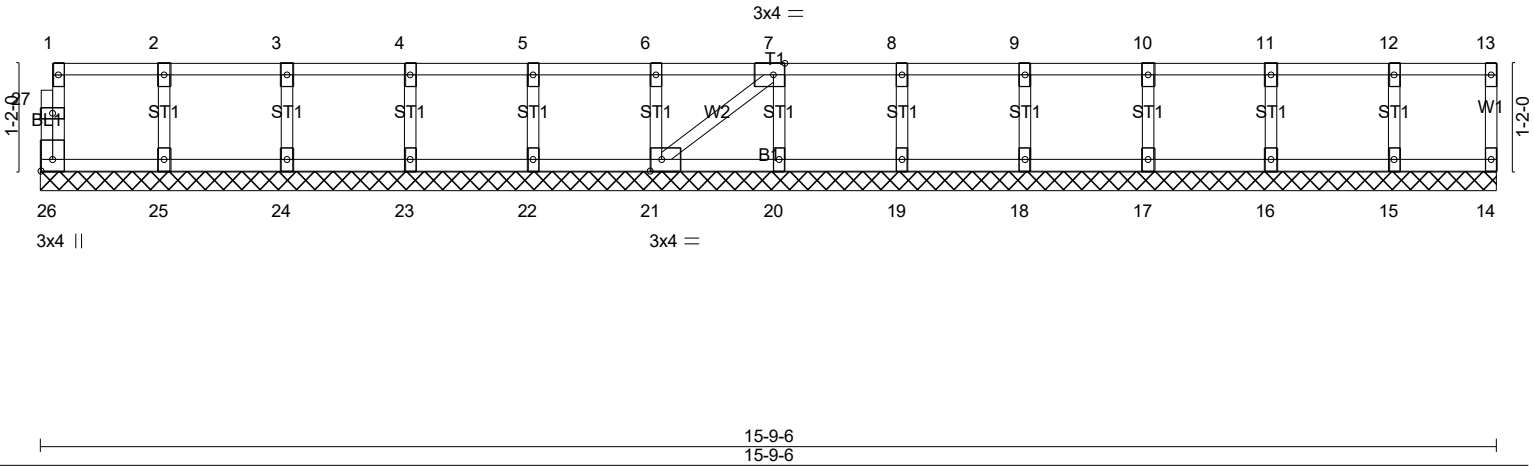

15-9-6
15-9-6

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [21:0-1-8,Edge], [26: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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 68 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-9-6.
(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- (8-9)
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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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

12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F202	Floor	3	1	# 54885
					Job Reference (optional)

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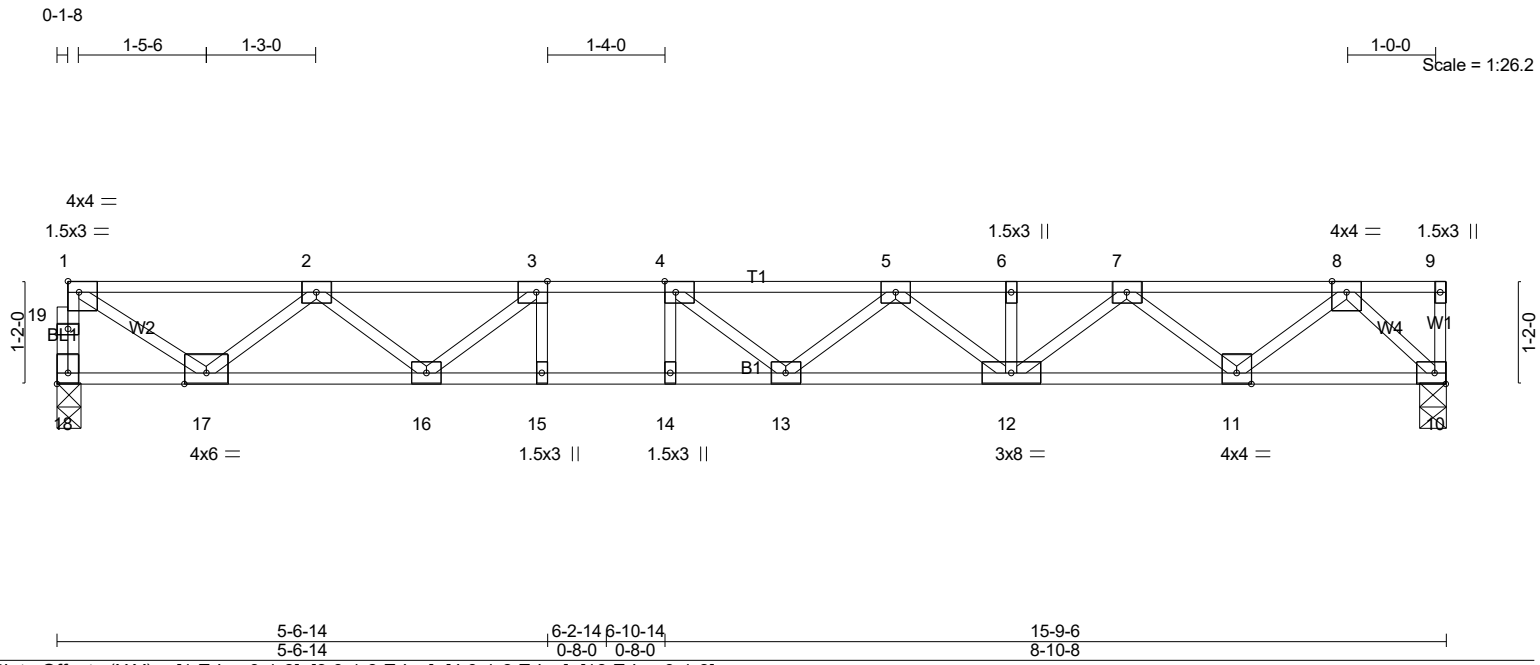

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-1-8,Edge], [4:0-1-8,Edge], [18:Edge,0-1-8]

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	0.56	Vert(LL)	-0.22	13-14	>862	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.30	13-14	>627	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.05	10	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 80 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 1-4-12 oc bracing.

REACTIONS. (lb/size) 18=851/0-3-6 (min. 0-1-8), 10=858/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 18-19=-848/0, 1-19=-847/0, 1-2=-1111/0, 2-3=-2448/0, 3-4=-3050/0, 4-5=-3152/0, 5-6=-2740/0, 6-7=-2740/0, 7-8=-1587/0
BOT CHORD 16-17=0/1950, 15-16=0/3050, 14-15=0/3050, 13-14=0/3050, 12-13=0/3124, 11-12=0/2291, 10-11=0/849
WEBS 3-15=-16/294, 4-14=-272/38, 3-16=-829/0, 2-16=0/649, 2-17=-1092/0, 1-17=0/1288, 4-13=-219/326, 5-12=-490/0, 7-12=0/573, 7-11=-916/0, 8-11=0/961, 8-10=-1189/0

NOTES- (6-7)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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

12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F203	Floor	1	1	# 54885
					Job Reference (optional)

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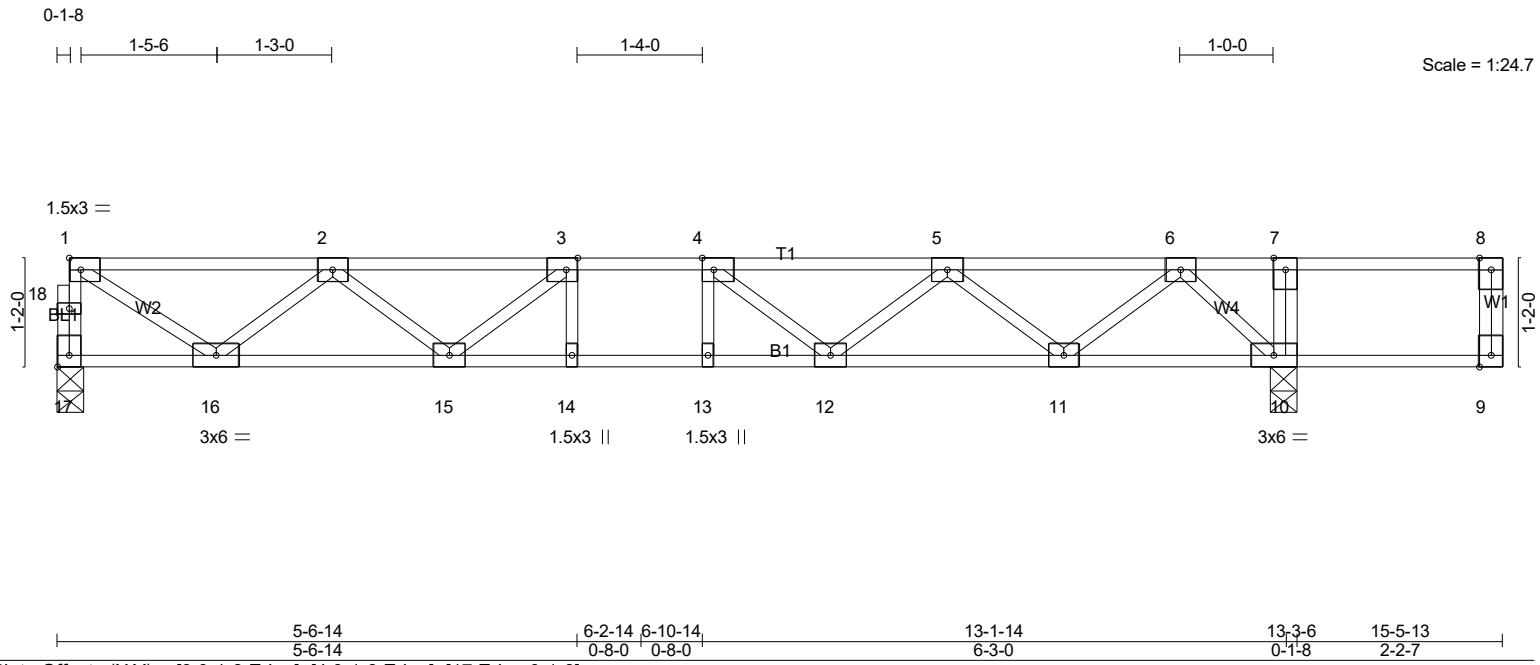

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [17:Edge,0-1-8]

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	0.69	Vert(LL)	-0.10	13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.13	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 77 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, Except: 6-0-0 oc bracing: 10-11.

REACTIONS. (lb/size) 17=690/0-3-6 (min. 0-1-8), 10=980/0-3-8 (min. 0-1-8)
Max Grav 17=705(LC 3), 10=980(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 17-18=-699/0, 1-18=-698/0, 1-2=-893/0, 2-3=-1875/0, 3-4=-2193/0, 4-5=-2019/0, 5-6=-1240/0
BOT CHORD 15-16=0/1568, 14-15=0/2193, 13-14=0/2193, 12-13=0/2193, 11-12=0/1800, 10-11=-25/676
WEBS 7-10=-382/0, 3-15=-503/0, 2-15=0/420, 2-16=-879/0, 1-16=0/1034, 4-12=-405/10, 5-12=0/382, 5-11=-781/0, 6-11=0/735, 6-10=-921/34

NOTES- (6-7)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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

12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F204	Floor	1	1	Job Reference (optional) **# 54885**

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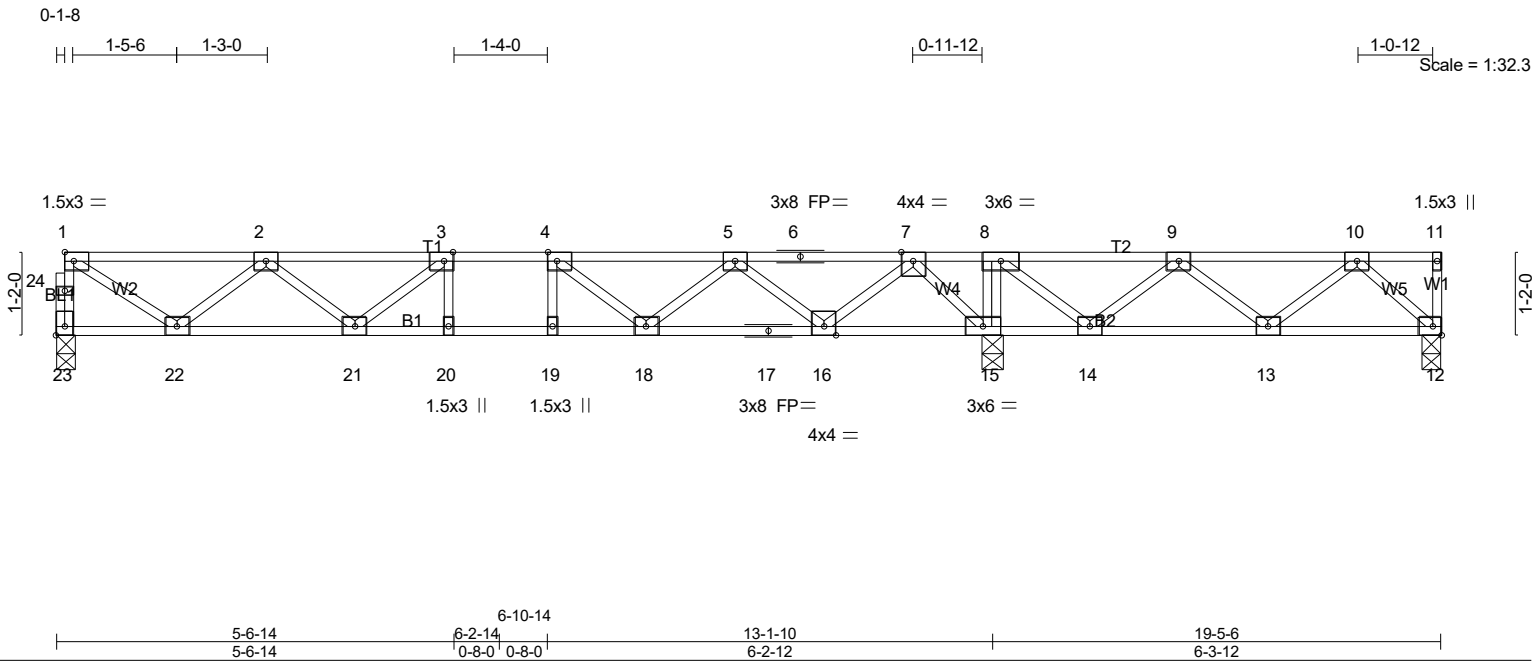


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [23:Edge,0-1-8]

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	0.42	Vert(LL)	-0.07	20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.09	20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.02	15	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 99 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)

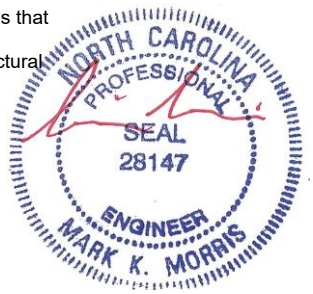
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 23=596/0-3-6 (min. 0-1-8), 12=107/0-3-8 (min. 0-1-8), 15=1410/0-3-8 (min. 0-1-8)
Max Uplift12=-127(LC 3)
Max Grav 23=603(LC 3), 12=263(LC 4), 15=1410(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 23-24=-596/0, 1-24=-595/0, 1-2=-742/0, 2-3=-1477/0, 3-4=-1599/0, 4-5=-1227/0, 7-8=0/1363, 8-9=0/936, 9-10=-279/369
BOT CHORD 21-22=0/1304, 20-21=0/1599, 19-20=0/1599, 18-19=0/1599, 17-18=0/877, 16-17=0/877, 15-16=-575/0, 14-15=-1363/0, 13-14=-621/277
WEBS 8-15=-634/0, 3-21=-255/29, 2-22=-732/0, 1-22=0/857, 4-18=-515/0, 5-18=0/468, 5-16=-880/0, 7-16=0/917, 7-15=-1127/0, 8-14=0/730, 9-14=-671/0, 9-13=0/328, 10-13=-283/41, 10-12=-338/206

NOTES- (7-8)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 12.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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



12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F205	Floor	1	1	Job Reference (optional) **# 54885**

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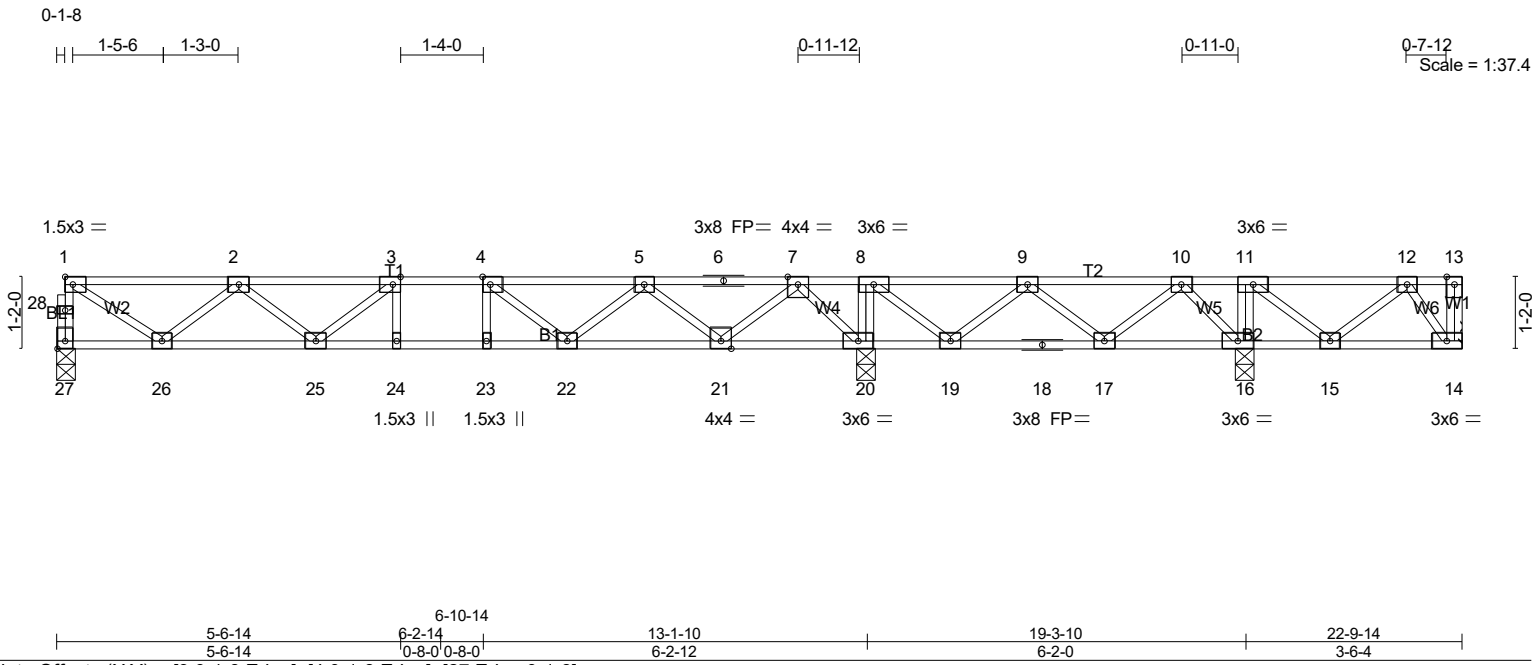


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [27:Edge,0-1-8]

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	0.41	Vert(LL)	-0.07	24	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.09	24	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.02	20	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 119 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)

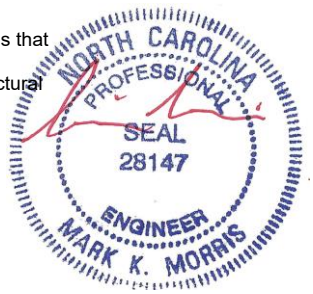
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 27=0-3-6, 14=Mechanical.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 14
Max Grav All reactions 250 lb or less at joint(s) 14 except 27=603(LC 5), 20=1399(LC 3), 16=552(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 27-28=-596/0, 1-28=-595/0, 1-2=-741/0, 2-3=-1474/0, 3-4=-1595/0, 4-5=-1222/0, 7-8=0/1358, 8-9=0/919, 9-10=-154/311
BOT CHORD 25-26=0/1302, 24-25=0/1595, 23-24=0/1595, 22-23=0/1595, 21-22=0/871, 20-21=-566/0, 19-20=-1358/0, 18-19=-581/200, 17-18=-581/200
WEBS 8-20=-624/0, 11-16=-312/0, 3-25=-257/25, 2-26=-731/0, 1-26=0/856, 4-22=-511/0, 5-22=0/467, 5-21=-879/0, 7-21=0/917, 7-20=-1128/0, 8-19=0/714, 9-19=-655/0, 9-17=-73/351, 10-17=-309/111, 10-16=-359/294, 12-14=-289/13

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 100 lb uplift at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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



12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F207	Floor	3	1	# 54885
					Job Reference (optional)

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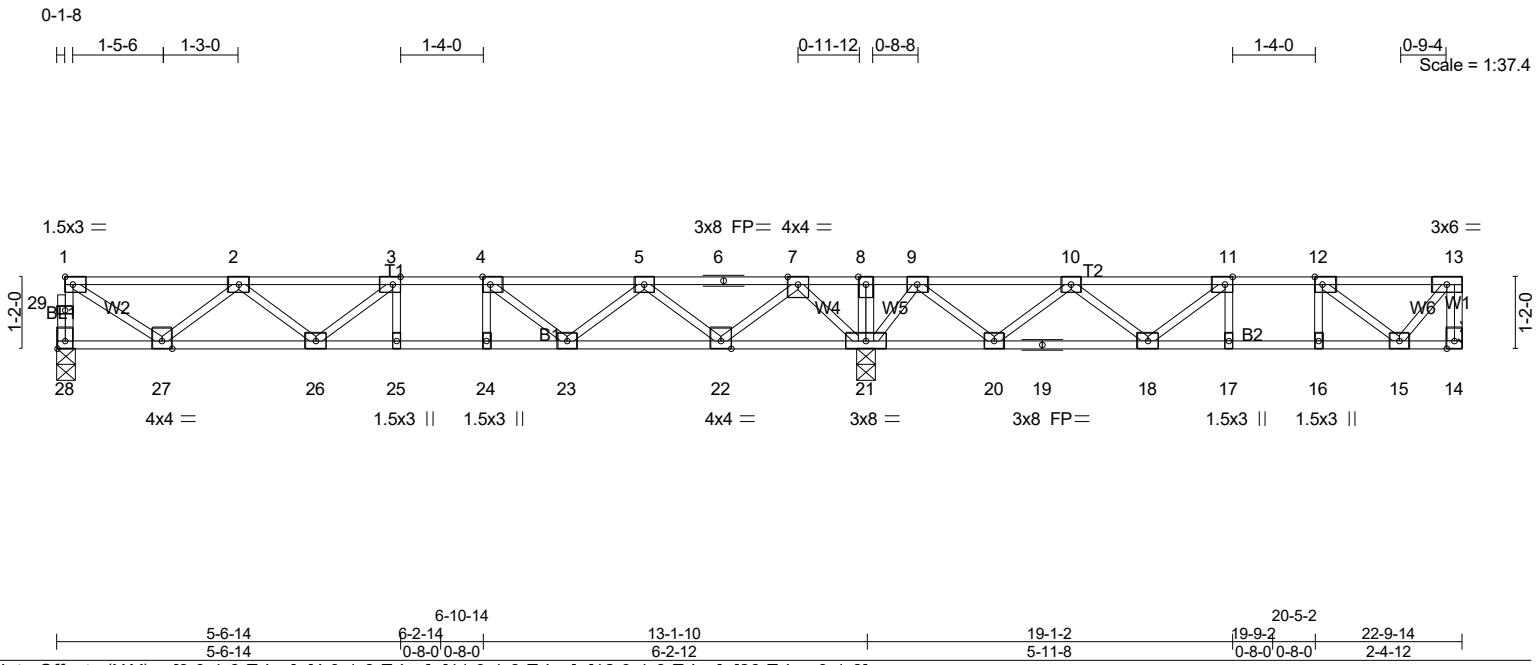


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [28:Edge,0-1-8]

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	0.44	Vert(LL)	-0.07	25	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.10	25	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.02	21	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 117 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)

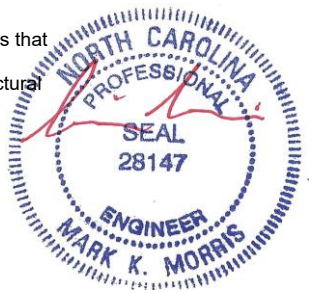
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 28=579/0-3-6 (min. 0-1-8), 14=349/Mechanical, 21=1549/0-3-8 (min. 0-1-8)
Max Grav 28=618(LC 3), 14=424(LC 4), 21=1549(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 28-29=-612/0, 1-29=-611/0, 13-14=-407/0, 1-2=-764/0, 2-3=-1536/0, 3-4=-1687/0, 4-5=-1344/18, 5-6=-367/406, 6-7=-367/406, 7-8=0/1648, 8-9=0/1648, 9-10=-69/659, 10-11=-686/260, 11-12=-746/67, 12-13=-281/1
BOT CHORD 26-27=0/1343, 25-26=0/1687, 24-25=0/1687, 23-24=0/1687, 22-23=-187/1014, 21-22=-797/0, 20-21=-1112/0, 19-20=-434/552, 18-19=-434/552, 17-18=-67/746, 16-17=-67/746, 15-16=-67/746
WEBS 2-26=-1/251, 2-27=-754/0, 1-27=0/884, 4-23=-593/0, 5-23=0/504, 5-22=-904/0, 7-22=0/943, 7-21=-1174/0, 11-18=-365/0, 10-18=0/325, 10-20=-736/0, 9-20=0/764, 9-21=-876/0, 12-15=-594/84, 13-15=-1/431

NOTES- (7-8)
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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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



12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F208	Floor	6	1	Job Reference (optional) **# 54885**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Dec 7 18:07:29 2024 Page 1
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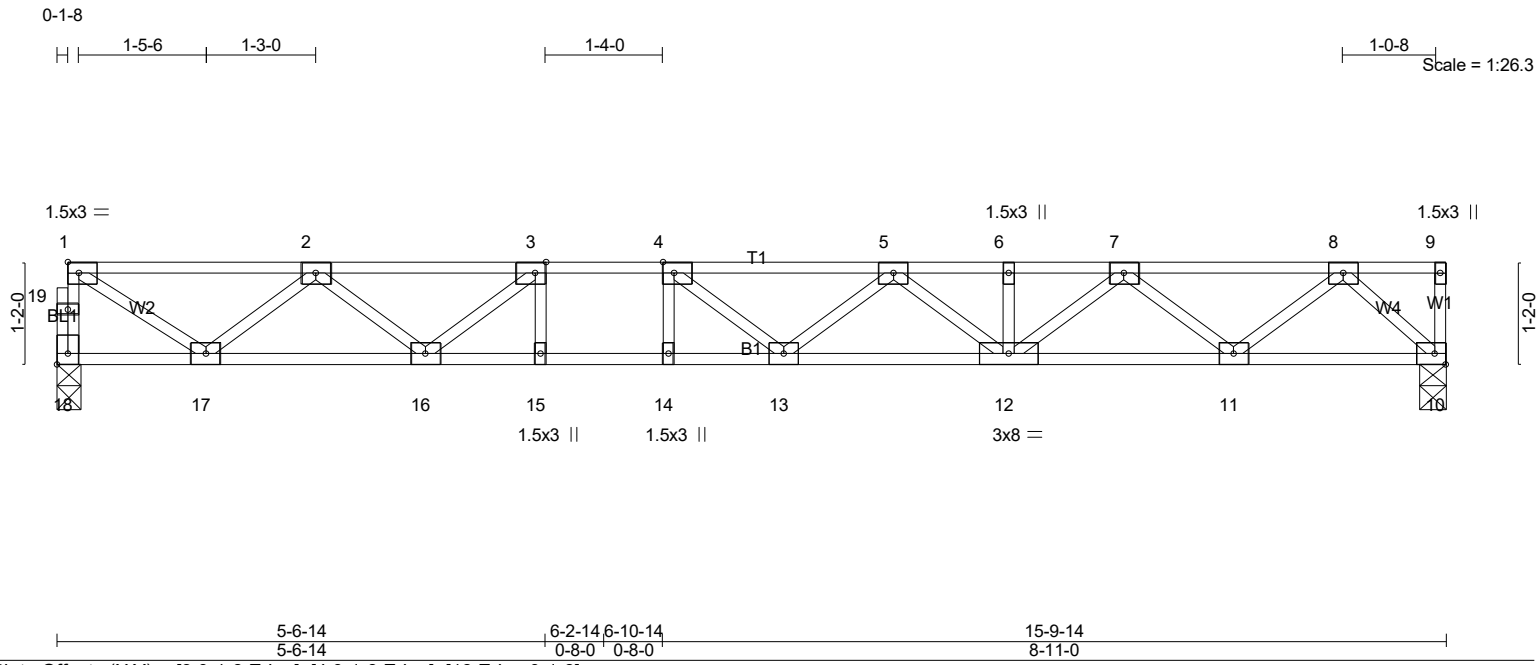

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [18:Edge,0-1-8]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.15	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.20	13-14	>934	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 80 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) 18=569/0-3-6 (min. 0-1-8), 10=573/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 18-19=-567/0, 1-19=-566/0, 1-2=-743/0, 2-3=-1638/0, 3-4=-2042/0, 4-5=-2113/0, 5-6=-1842/0, 6-7=-1842/0, 7-8=-1078/0
BOT CHORD 16-17=0/1304, 15-16=0/2042, 14-15=0/2042, 13-14=0/2042, 12-13=0/2097, 11-12=0/1545, 10-11=0/587
WEBS 3-16=-556/0, 2-16=0/435, 2-17=-730/0, 1-17=0/861, 5-12=-325/0, 7-12=0/379, 7-11=-608/0, 8-11=0/639, 8-10=-807/0

NOTES- (6-7)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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

12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F209	Floor	2	1	Job Reference (optional) **# 54885**

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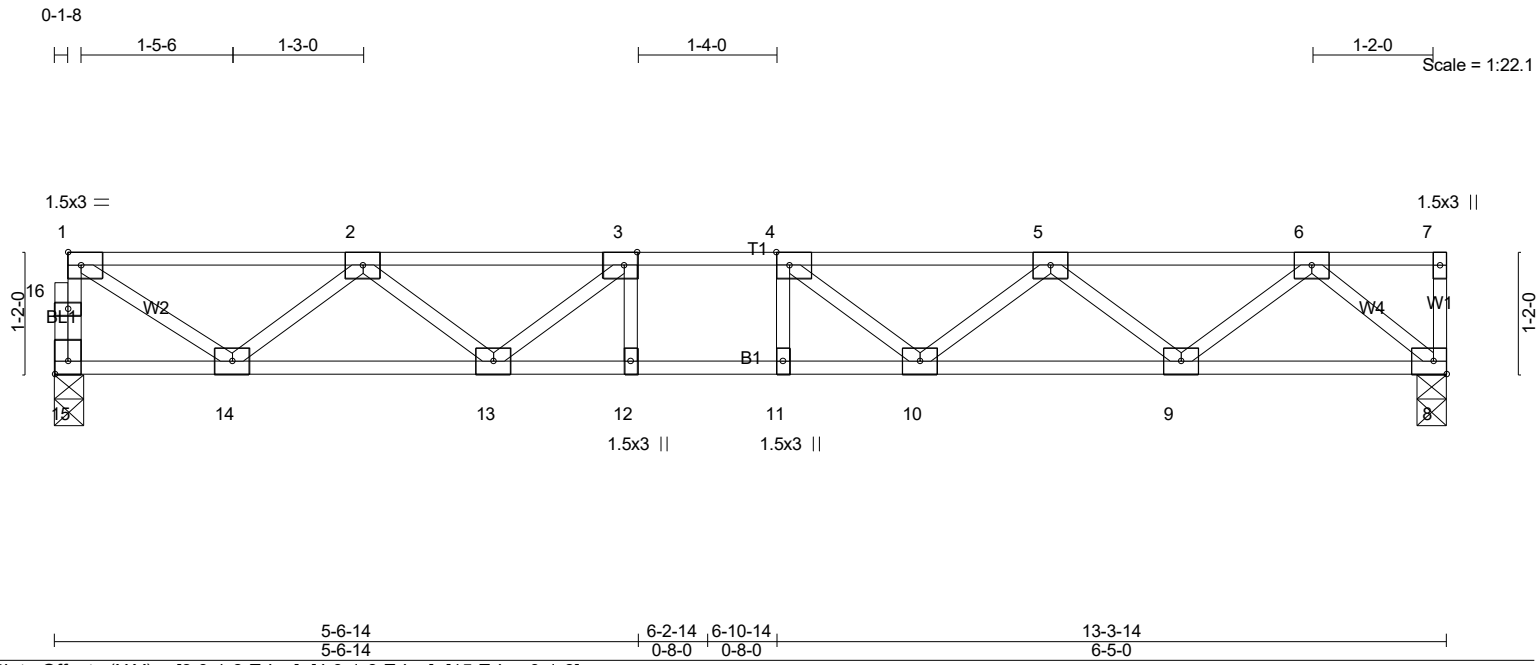

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [15:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	-0.07	11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.09	11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 67 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) 15=477/0-3-6 (min. 0-1-8), 8=482/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 15-16=-474/0, 1-16=-473/0, 1-2=-607/0, 2-3=-1279/0, 3-4=-1506/0, 4-5=-1403/0, 5-6=-911/0
BOT CHORD 13-14=0/1065, 12-13=0/1506, 11-12=0/1506, 10-11=0/1506, 9-10=0/1269, 8-9=0/532
WEBS 3-13=-353/0, 2-13=0/292, 2-14=-597/0, 1-14=0/702, 5-9=-467/0, 6-9=0/493, 6-8=-698/0

NOTES- (6-7)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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

12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F210	Floor	7	1	Job Reference (optional) **# 54885**

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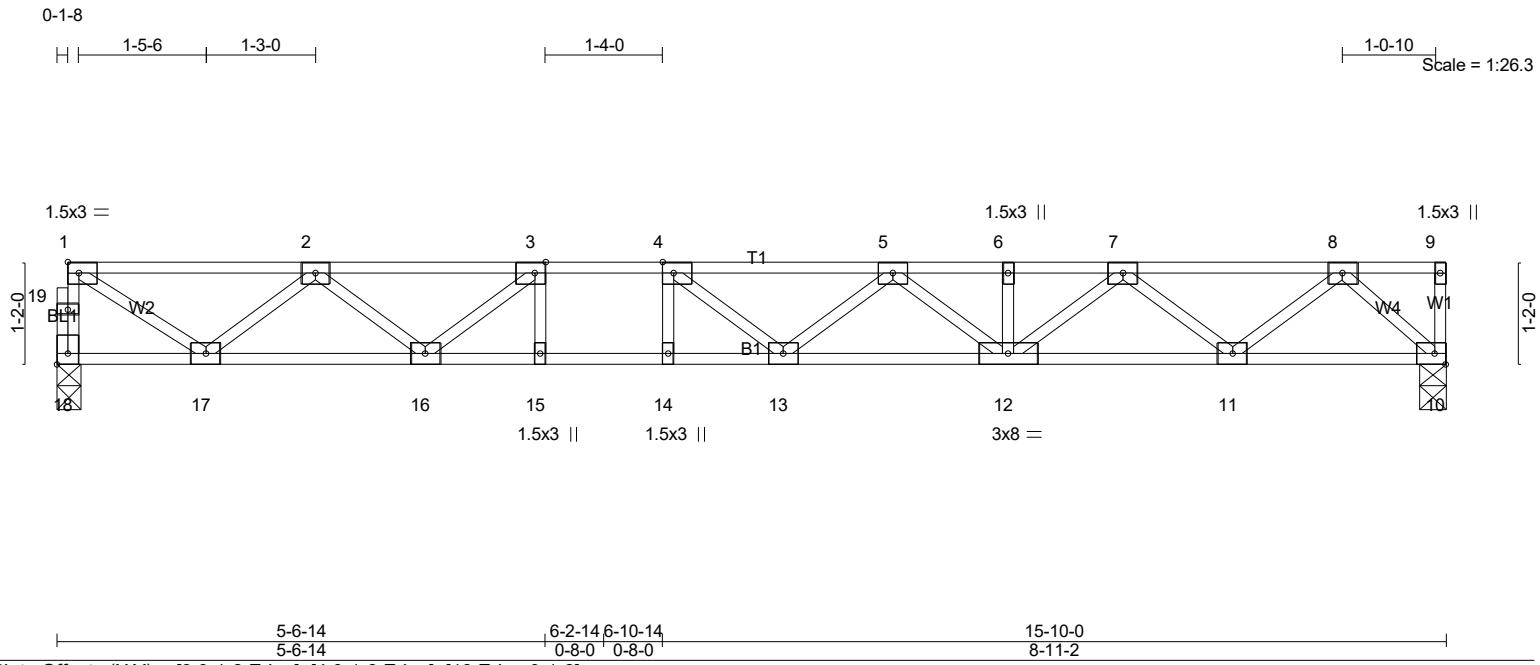

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [18:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.15	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.20	13-14	>932	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 80 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) 18=570/0-3-6 (min. 0-1-8), 10=574/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 18-19=-567/0, 1-19=-566/0, 1-2=-744/0, 2-3=-1640/0, 3-4=-2045/0, 4-5=-2116/0, 5-6=-1846/0, 6-7=-1846/0, 7-8=-1083/0
BOT CHORD 16-17=0/1305, 15-16=0/2045, 14-15=0/2045, 13-14=0/2045, 12-13=0/2100, 11-12=0/1550, 10-11=0/593
WEBS 3-16=-557/0, 2-16=0/436, 2-17=-731/0, 1-17=0/862, 5-12=-324/0, 7-12=0/379, 7-11=-608/0, 8-11=0/638, 8-10=-811/0

NOTES- (6-7)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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

12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F211	Floor	8	1	# 54885
					Job Reference (optional)

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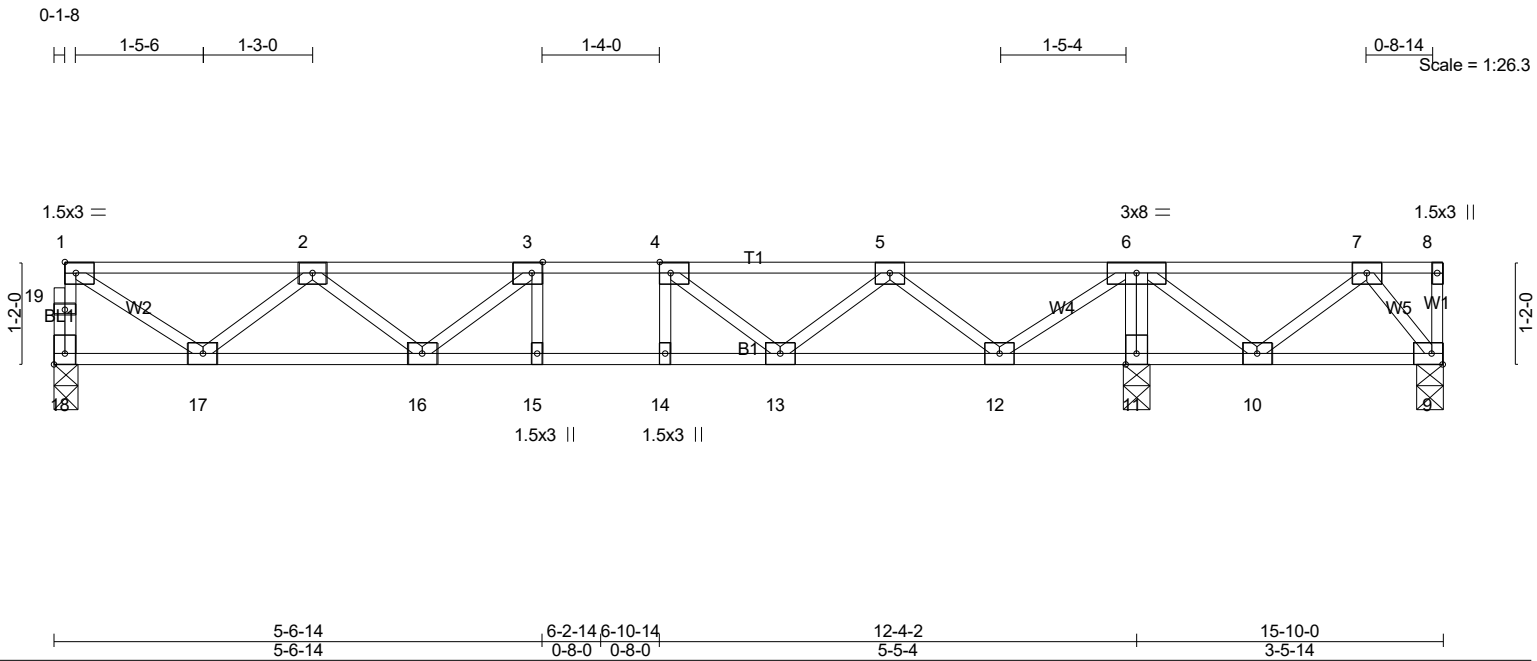


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [18:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.04	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.35	Vert(CT)	-0.06	15-16	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	11	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 81 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)

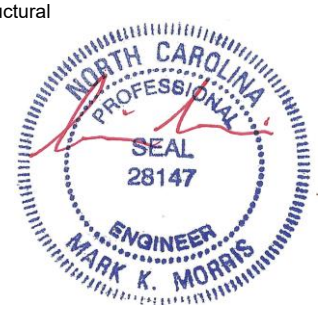
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 18=380/0-3-6 (min. 0-1-8), 11=863/0-3-8 (min. 0-1-8), 9=-100/0-3-8 (min. 0-1-8)
Max Uplift9=-188(LC 3)
Max Grav 18=382(LC 3), 11=863(LC 1), 9=60(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 18-19=-377/0, 1-19=-376/0, 1-2=-464/0, 2-3=-904/0, 3-4=-945/0, 4-5=-660/0, 6-7=0/406
BOT CHORD 16-17=0/815, 15-16=0/945, 14-15=0/945, 13-14=0/945, 12-13=0/402, 11-12=-689/0, 10-11=-693/0
WEBS 6-11=-844/0, 2-17=-458/0, 1-17=0/536, 4-13=-369/0, 5-13=0/342, 5-12=-622/0, 6-12=0/738, 6-10=0/408, 7-10=-373/0, 7-9=-89/256

NOTES- (7-8)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=188.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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



12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F212	Floor Supported Gable	1	1	# 54885
					Job Reference (optional)

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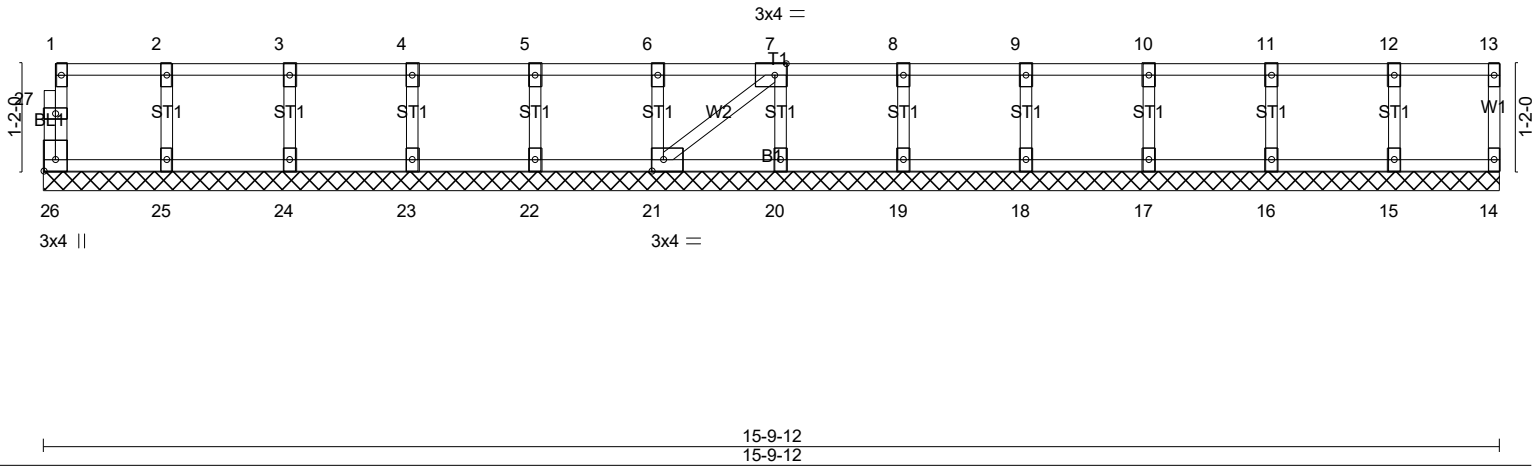

15-9-12
15-9-12

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [21:0-1-8,Edge], [26: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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 68 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-9-12.
(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- (8-9)
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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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

12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F213	Floor Girder	1	1	Job Reference (optional) **# 54885**

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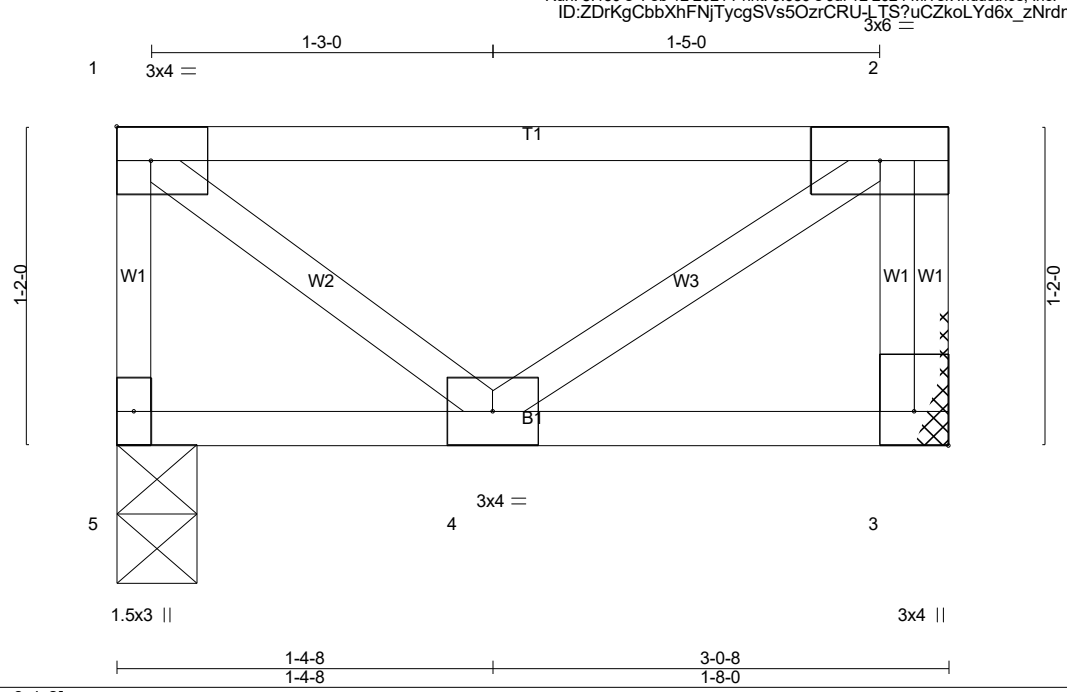

Plate Offsets (X,Y)-- [3:Edge,0-1-8]

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	0.57	Vert(LL)	-0.00	4	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	-0.00	4	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00		n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-P							Weight: 18 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 3-0-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=157/0-3-8 (min. 0-1-8), 3=157/Mechanical

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

NOTES- (4-5)
1) Refer to girder(s) for truss to truss connections.
2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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) 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.
5) 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

12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F214	Floor Girder	1	1	Job Reference (optional) **# 54885**

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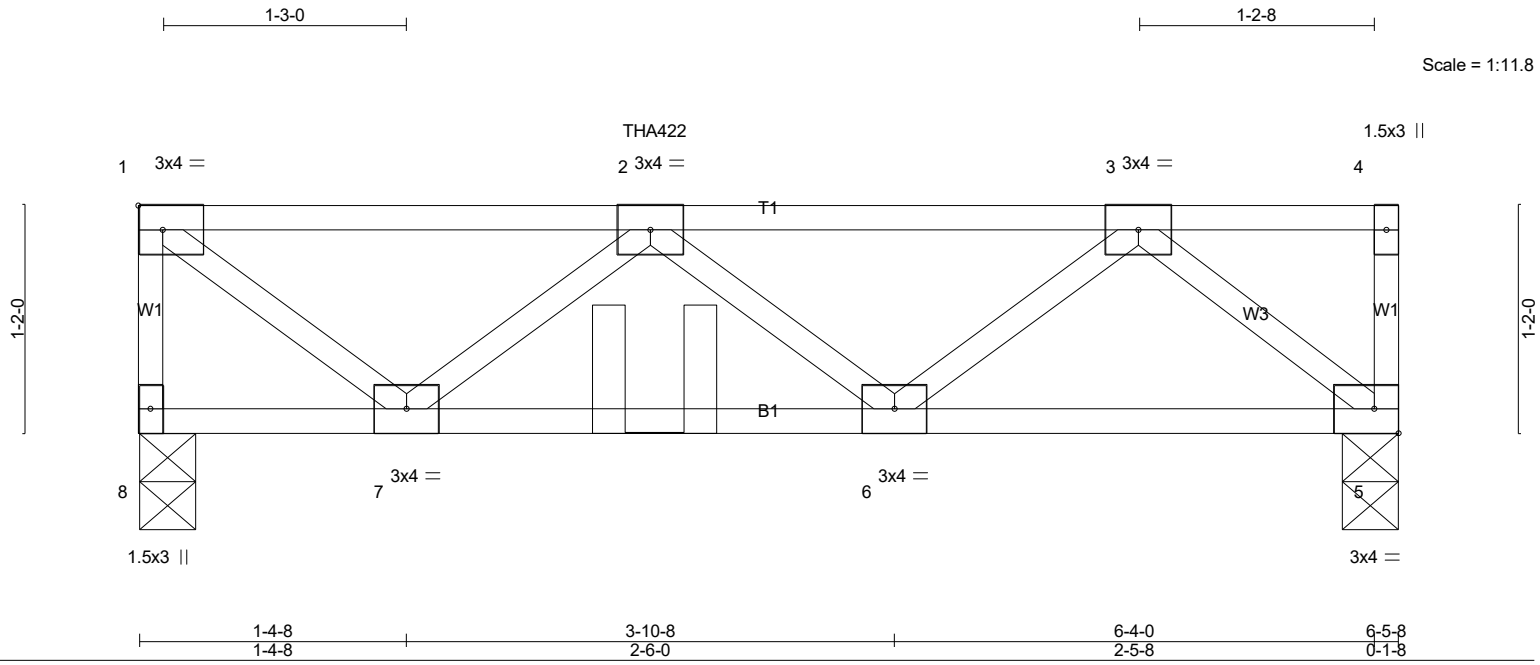

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.01	6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.15	Vert(CT)	-0.01	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-P							Weight: 33 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) 8=382/0-3-8 (min. 0-1-8), 5=371/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-377/0, 1-2=-347/0, 2-3=-542/0
BOT CHORD 6-7=0/655, 5-6=0/394
WEBS 1-7=0/443, 2-7=-401/0, 3-5=-510/0

NOTES- (6-7)
1) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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 (Single Chord Girder) or equivalent at 2-7-12 from the left end to connect truss(es) F213 (1 ply 2x4 SP) to front face of top chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
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: 5-8=-10, 1-4=-100
Concentrated Loads (lb)
Vert: 2=-57(F)

12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F215	Floor Supported Gable	1	1	Job Reference (optional) **# 54885**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Dec 7 18:07:35 2024 Page 1
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0-1-8

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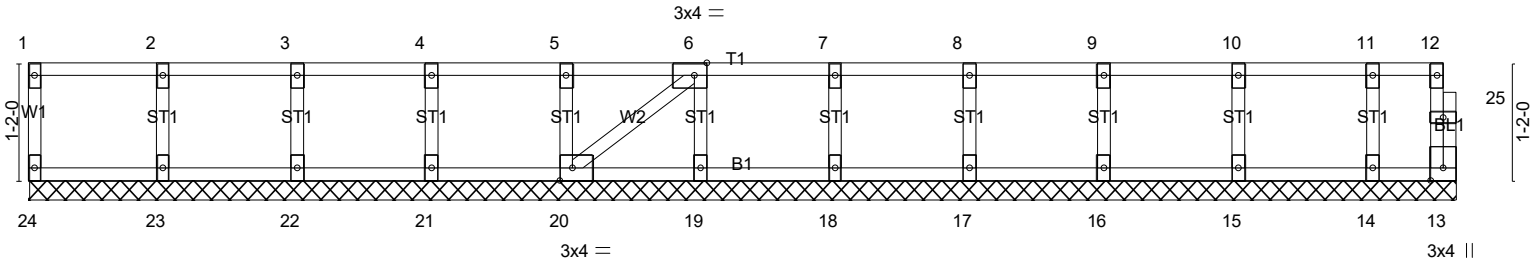

14-1-14
14-1-14

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [20:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 62 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-1-14.
(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- (8-9)
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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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

12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F216	Floor	5	1	Job Reference (optional) **# 54885**

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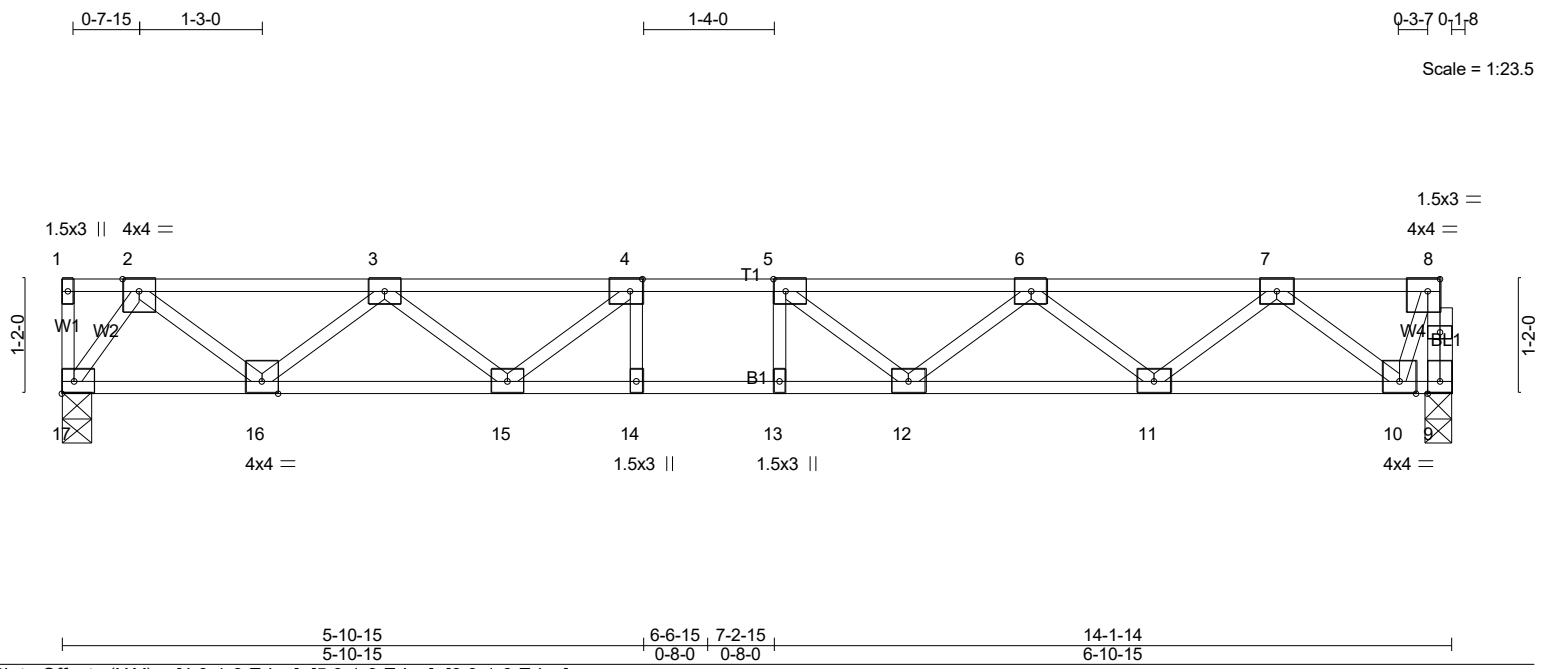

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [8:0-1-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.12	13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.17	13	>978	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 72 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) 9=768/0-3-6 (min. 0-1-8), 17=768/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=-771/0, 2-3=-1221/0, 3-4=-2204/0, 4-5=-2558/0, 5-6=-2403/0, 6-7=-1671/0, 7-8=-281/0
BOT CHORD 16-17=0/540, 15-16=0/1870, 14-15=0/2558, 13-14=0/2558, 12-13=0/2558, 11-12=0/2204, 10-11=0/1109
WEBS 4-15=-556/0, 3-15=0/458, 3-16=-844/0, 2-16=0/887, 2-17=-946/0, 5-12=-385/53, 6-12=0/338, 6-11=-694/0, 7-11=0/731, 7-10=-1079/0, 8-10=0/765

NOTES- (6-7)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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

12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F217	Floor Supported Gable	2	1	Job Reference (optional) **# 54885**

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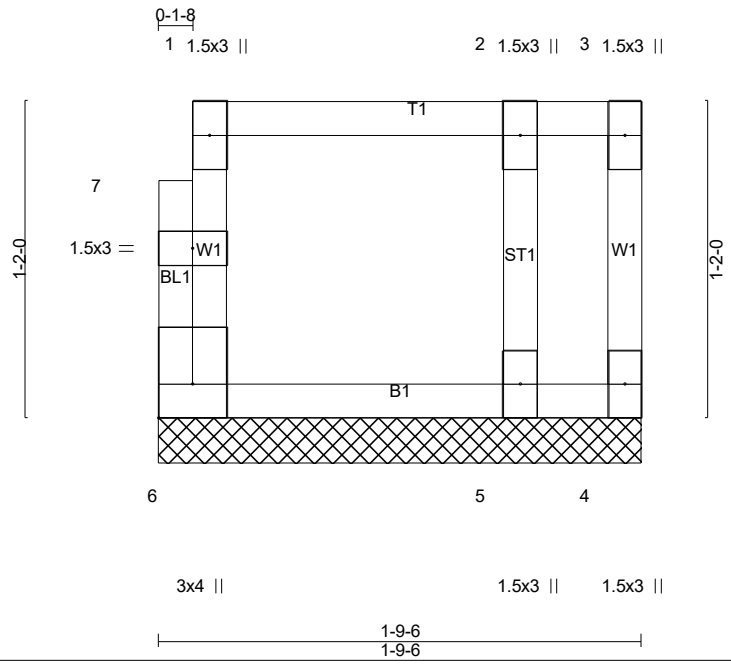

Plate Offsets (X,Y)-- [6:Edge,0-1-8]

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	0.04	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	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-R							Weight: 10 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 1-9-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=57/1-9-6 (min. 0-1-8), 4=11/1-9-6 (min. 0-1-8), 5=101/1-9-6 (min. 0-1-8)

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

NOTES- (7-8)
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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

12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F218	Floor	4	1	# 54885
					Job Reference (optional)

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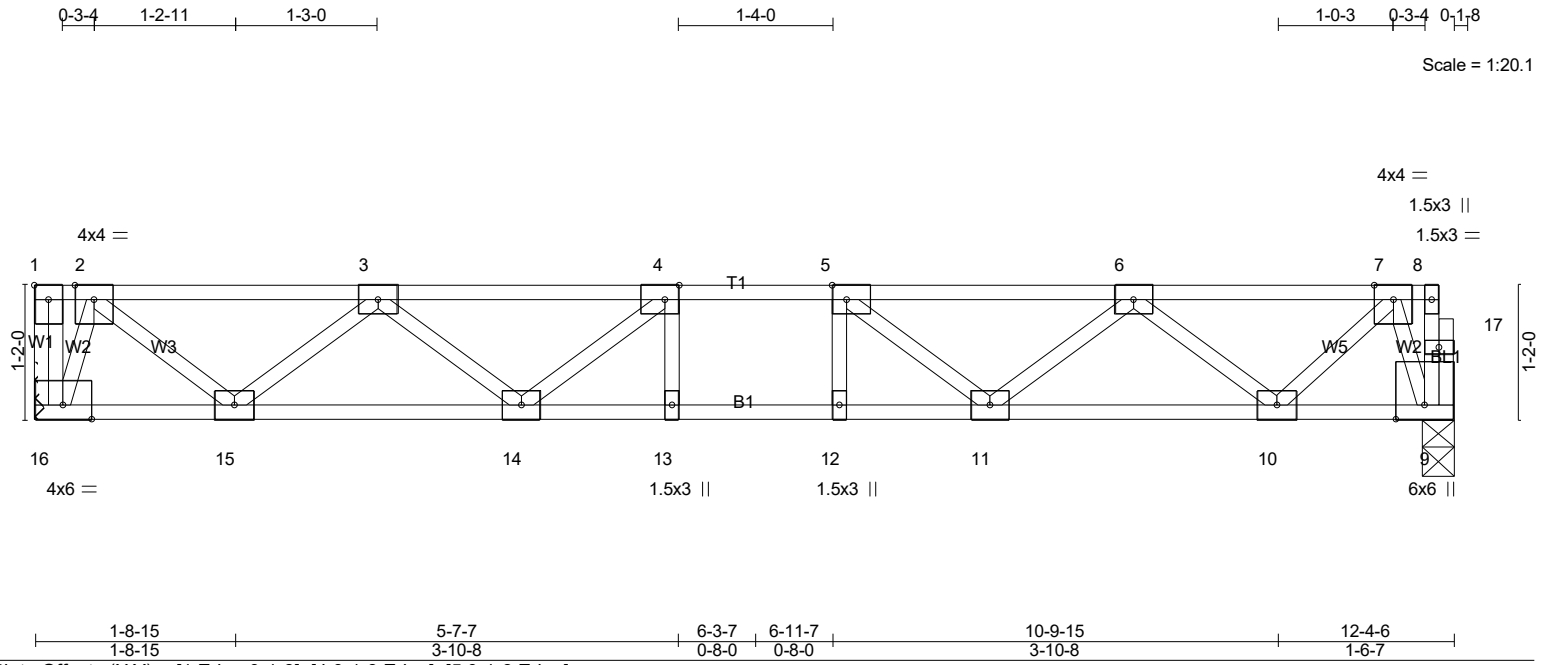

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.07	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.09	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 65 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) 16=666/Mechanical, 9=660/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-871/0, 3-4=-1701/0, 4-5=-1934/0, 5-6=-1656/0, 6-7=-776/0
BOT CHORD 15-16=0/280, 14-15=0/1449, 13-14=0/1934, 12-13=0/1934, 11-12=0/1934, 10-11=0/1371, 9-10=0/271
WEBS 4-14=-405/0, 3-14=0/353, 3-15=-752/0, 5-11=-444/0, 6-11=0/381, 6-10=-774/0, 2-15=0/777, 2-16=-787/0, 7-10=0/724, 7-9=-775/0

NOTES- (7-8)
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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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

12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F219	Floor	2	1	# 54885
					Job Reference (optional)

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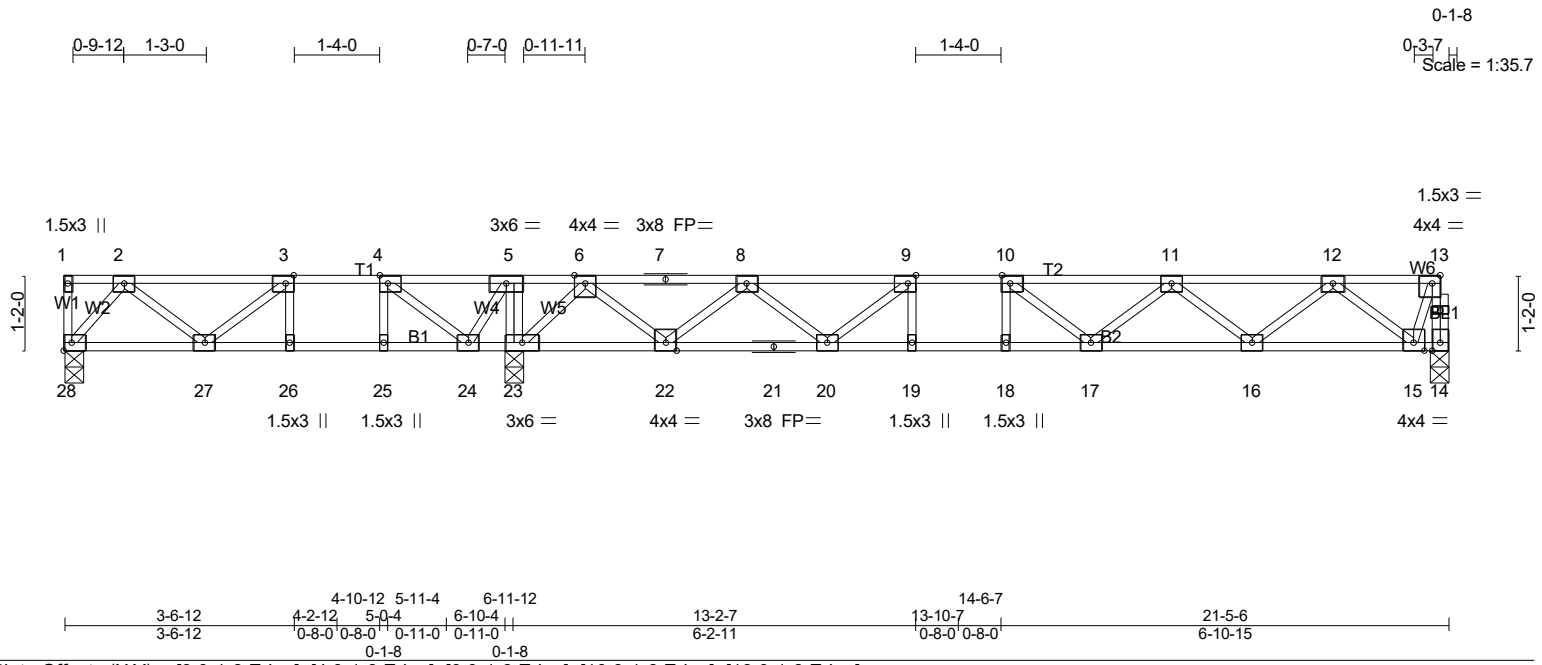


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.53	Vert(LL)	-0.12	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.17	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	14	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 110 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)

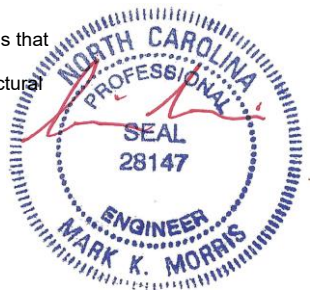
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 14=716/0-3-6 (min. 0-1-8), 28=230/0-3-8 (min. 0-1-8), 23=1392/0-3-8 (min. 0-1-8)
Max Uplift28=-53(LC 4)
Max Grav 14=723(LC 7), 28=345(LC 3), 23=1392(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 13-14=-728/0, 2-3=-430/178, 3-4=-468/457, 4-5=0/885, 5-6=0/1116, 6-7=-703/0, 7-8=-703/0, 8-9=-1798/0, 9-10=-2237/0, 10-11=-2169/0, 11-12=-1546/0, 12-13=-263/0
BOT CHORD 27-28=-26/307, 26-27=-457/468, 25-26=-457/468, 24-25=-457/468, 23-24=-1116/0, 21-22=0/1402, 20-21=0/1402, 19-20=0/2237, 18-19=0/2237, 17-18=0/2237, 16-17=0/2030, 15-16=0/1037
WEBS 4-25=0/281, 5-23=-488/0, 3-27=-49/357, 2-28=-477/41, 4-24=-908/0, 5-24=0/491, 9-20=-621/0, 8-20=0/544, 8-22=-937/0, 6-22=0/975, 6-23=-1218/0, 10-17=-277/119, 11-17=0/264, 11-16=-630/0, 12-16=0/663, 12-15=-1007/0, 13-15=0/717

NOTES- (7-8)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 28.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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



12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F220	Floor	2	1	# 54885
					Job Reference (optional)

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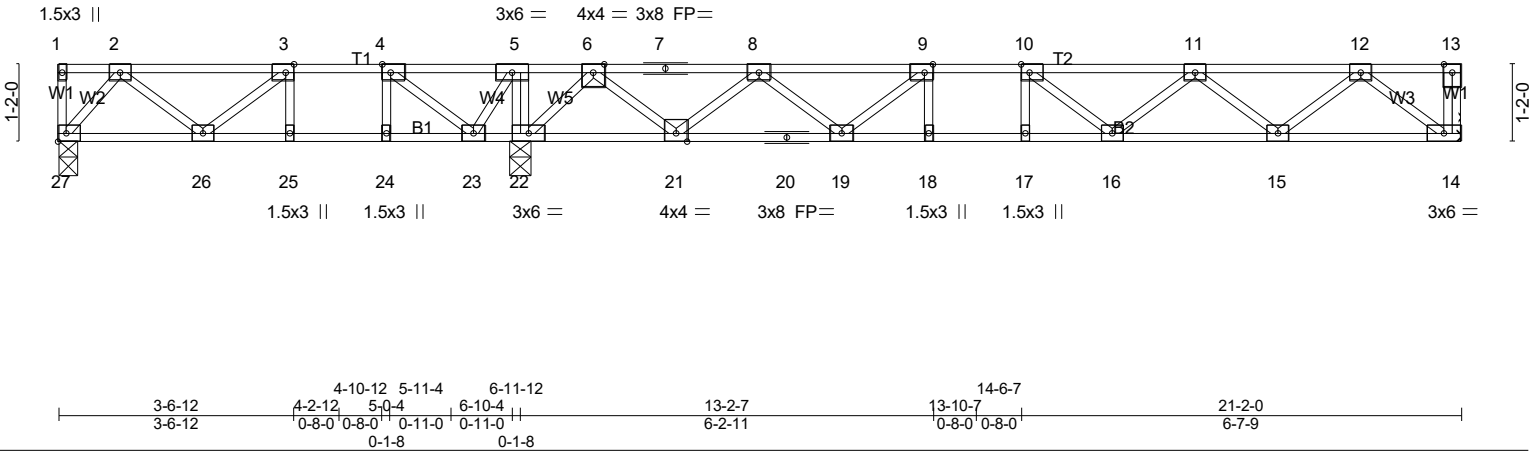


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.11	17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.15	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.03	14	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 108 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)

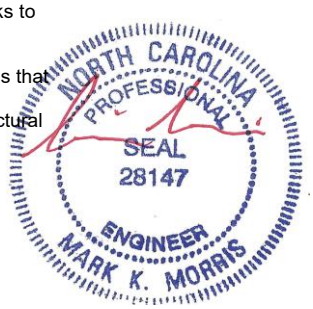
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 27=236/0-3-8 (min. 0-1-8), 22=1369/0-3-8 (min. 0-1-8), 14=703/Mechanical
Max Uplift27=-47(LC 4)
Max Grav27=347(LC 3), 22=1369(LC 1), 14=710(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-434/165, 3-4=-475/432, 4-5=-4/847, 5-6=0/1074, 6-7=-707/0, 7-8=-707/0, 8-9=-1760/0, 9-10=-2166/0, 10-11=-2064/0, 11-12=-1399/0
BOT CHORD 26-27=-22/308, 25-26=-432/475, 24-25=-432/475, 23-24=-432/475, 22-23=-1074/0, 20-21=0/1387, 19-20=0/1387, 18-19=0/2166, 17-18=0/2166, 16-17=0/2166, 15-16=0/1903, 14-15=0/864
WEBS 4-24=0/275, 5-22=-484/0, 3-26=-53/341, 2-27=-479/34, 4-23=-891/0, 5-23=0/483, 9-19=-583/0, 8-19=0/515, 8-21=-913/0, 6-21=0/950, 6-22=-1192/0, 10-16=-297/80, 11-16=0/276, 11-15=-657/0, 12-15=0/696, 12-14=-1083/0

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 47 lb uplift at joint 27.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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



12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F221	Floor	2	1	Job Reference (optional) **# 54885**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Dec 7 18:07:41 2024 Page 1
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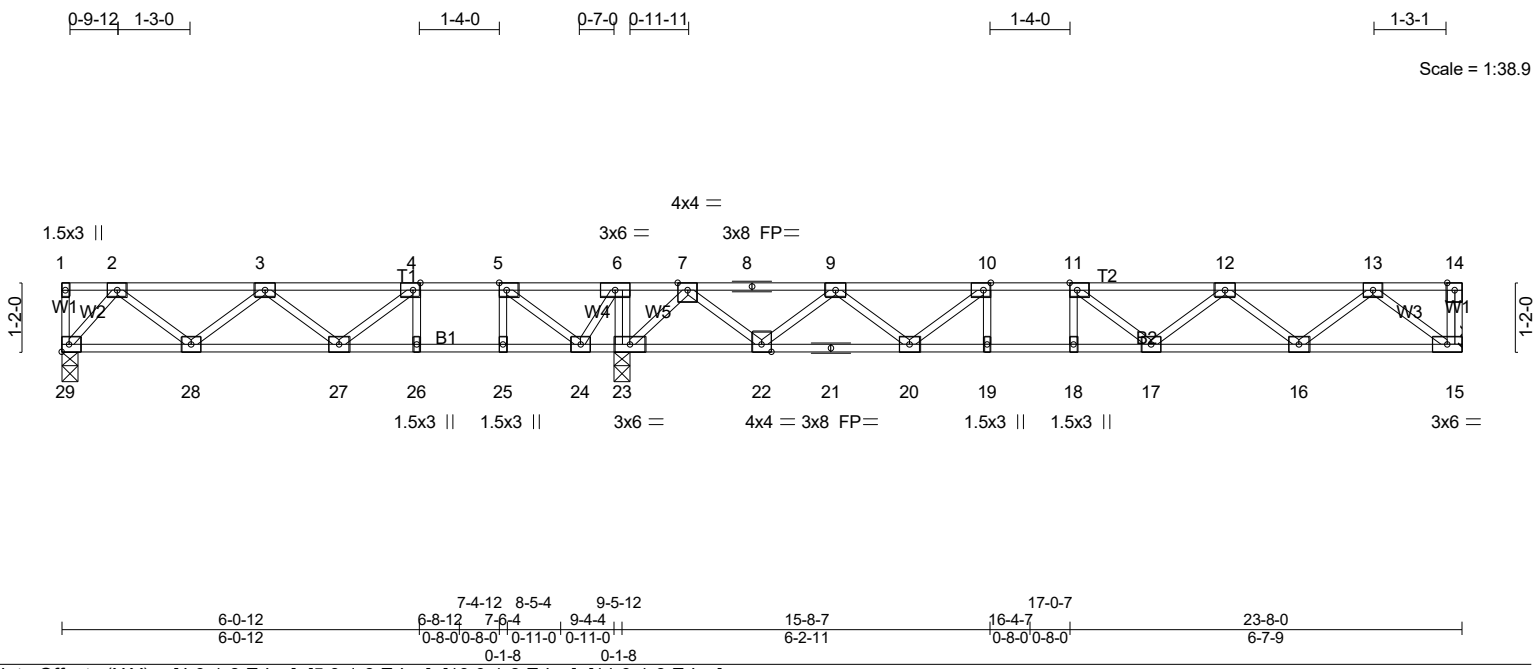


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.11	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.15	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	15	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 120 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)

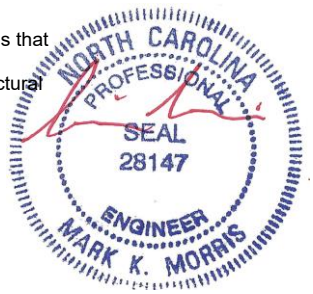
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 29=399/0-3-8 (min. 0-1-8), 23=1489/0-3-8 (min. 0-1-8), 15=694/Mechanical
Max Grav 29=487(LC 3), 23=1489(LC 1), 15=700(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-730/22, 3-4=-995/221, 4-5=-775/500, 5-6=-28/930, 6-7=0/1161, 7-8=-602/0, 8-9=-602/0, 9-10=-1678/0, 10-11=-2102/0, 11-12=-2018/0, 12-13=-1376/0
BOT CHORD 28-29=0/391, 27-28=-69/1053, 26-27=-500/775, 25-26=-500/775, 24-25=-500/775, 23-24=-1161/0, 22-23=-302/0, 21-22=0/1292, 20-21=0/1292, 19-20=0/2102, 18-19=0/2102, 17-18=0/2102, 16-17=0/1870, 15-16=0/852
WEBS 4-26=-339/0, 5-25=0/385, 6-23=-559/0, 4-27=0/523, 3-28=-420/61, 2-28=-34/441, 2-29=-607/0, 5-24=-1184/0, 6-24=0/616, 10-20=-597/0, 9-20=0/526, 9-22=-922/0, 7-22=0/959, 7-23=-1217/0, 11-17=-278/94, 12-17=0/262, 12-16=-643/0, 13-16=0/682, 13-15=-1067/0

NOTES- (7-8)
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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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



12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F223	Floor	15	1	Job Reference (optional) **# 54885**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Dec 7 18:07:42 2024 Page 1
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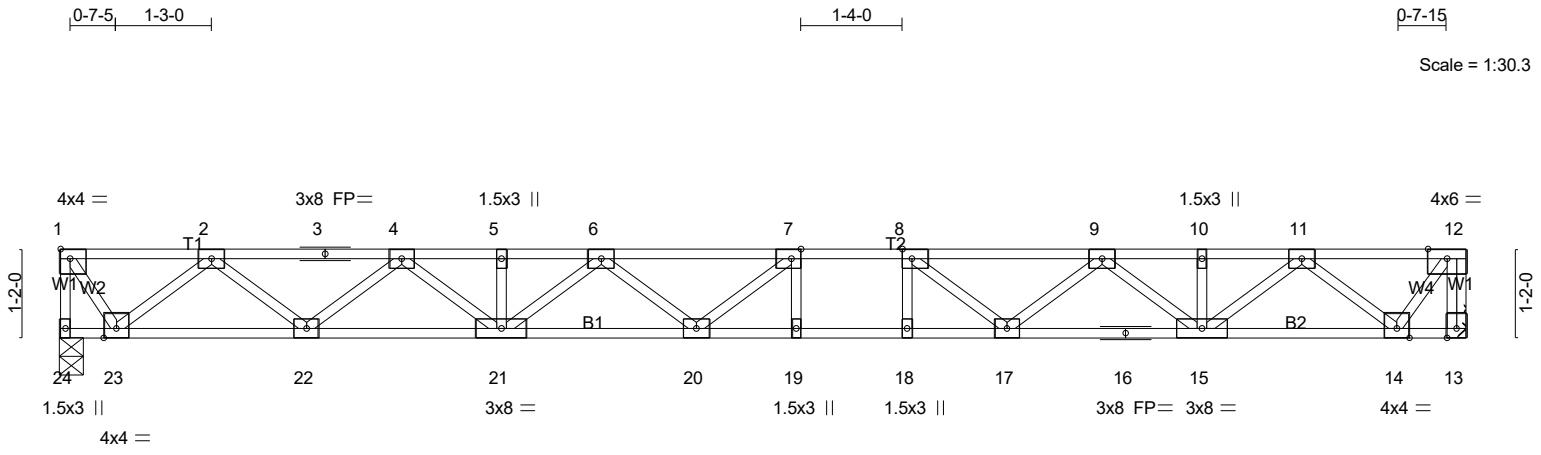

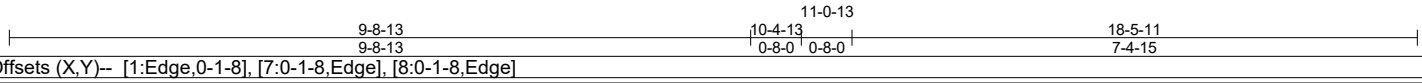

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [8:0-1-8,Edge]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.24	19-20	>933	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.32	19-20	>679	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.05	13	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 95 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=671/0-3-8 (min. 0-1-8), 13=671/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-24=-669/0, 12-13=-669/0, 1-2=-400/0, 2-3=-1663/0, 3-4=-1663/0, 4-5=-2520/0, 5-6=-2520/0, 6-7=-2880/0, 7-8=-2886/0, 8-9=-2542/0, 9-10=-1759/0, 10-11=-1759/0, 11-12=-462/0
BOT CHORD 22-23=0/1132, 21-22=0/2171, 20-21=0/2814, 19-20=0/2886, 18-19=0/2886, 17-18=0/2886, 16-17=0/2242, 15-16=0/2242, 14-15=0/1182
WEBS 6-21=-375/0, 4-21=0/445, 4-22=-662/0, 2-22=0/691, 2-23=-953/0, 1-23=0/738, 8-17=-535/0, 9-17=0/422, 9-15=-618/0, 11-15=0/736, 11-14=-938/0, 12-14=0/767

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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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

12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F224	Floor Supported Gable	1	1	# 54885
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Dec 7 18:07:43 2024 Page 1
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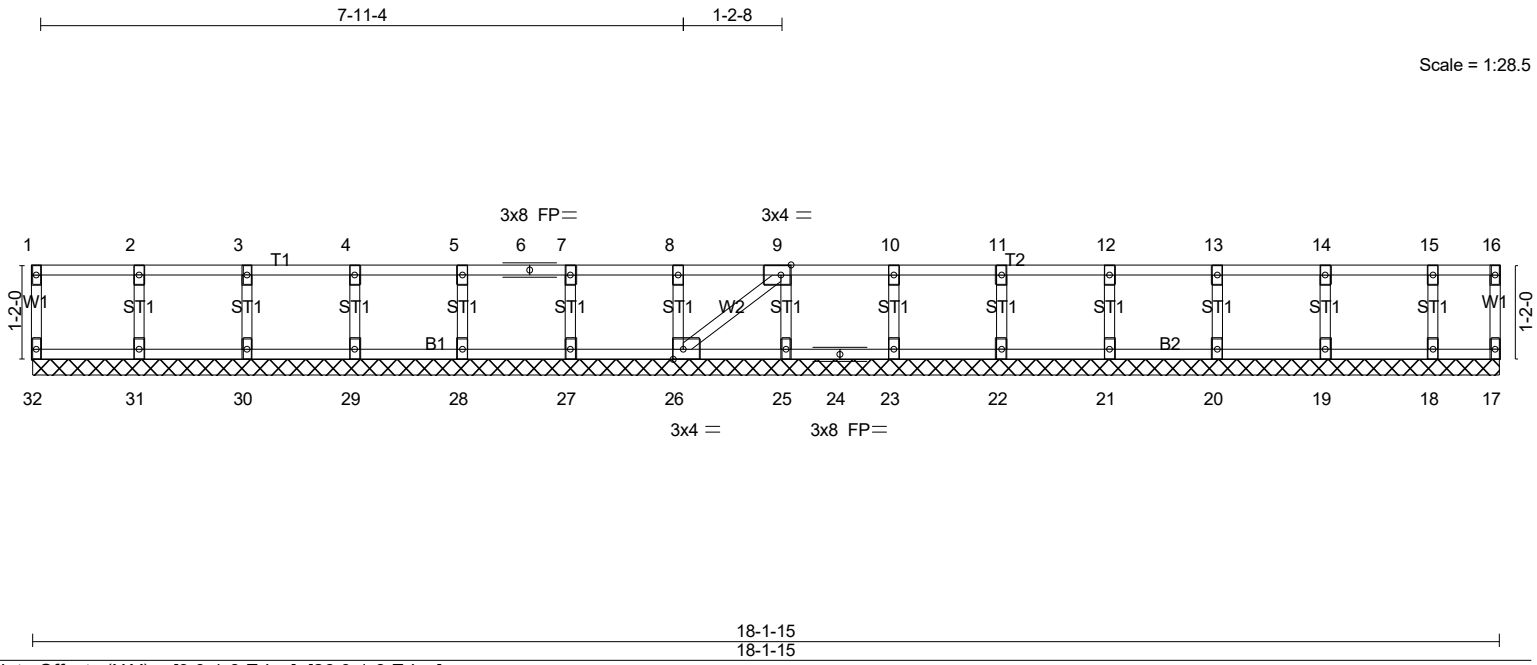

Plate Offsets (X,Y)-- [9:0-1-8,Edge], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	17	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 77 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 18-1-15.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 23, 22, 21, 20, 19, 18

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

NOTES- (7-8)
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) Non Standard bearing condition. Review required.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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) 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

12/7/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0015 CAMPBELL RIDGE | 271 ALDEN WAY ANGIER, NC
24-B205-F02	F225	GABLE	1	1	Job Reference (optional) **# 54885**

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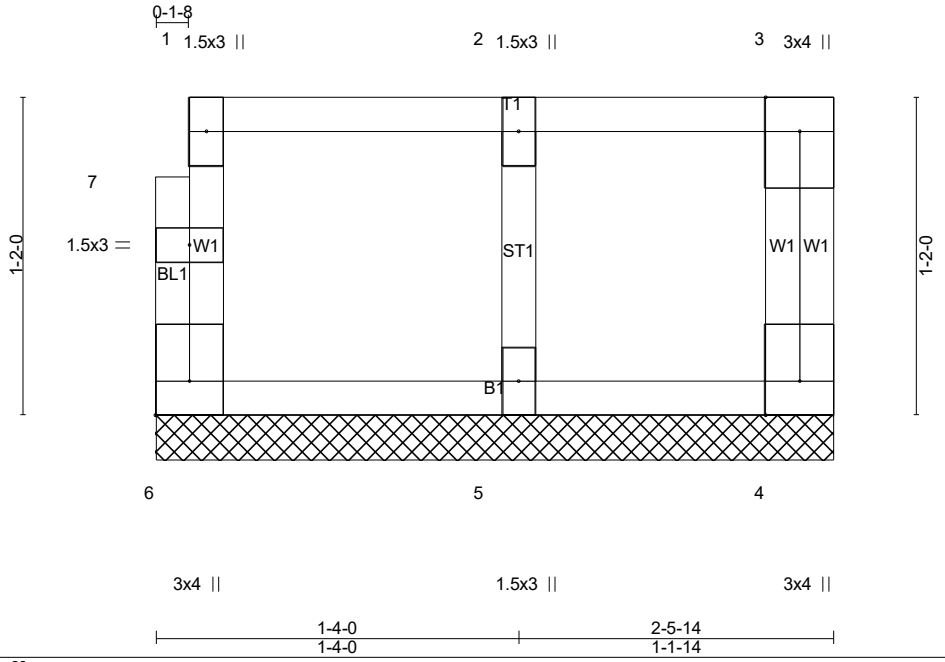

Plate Offsets (X,Y)-- [6:Edge,0-1-8]

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 IRC2018/TPI2014		Matrix-R							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 2-5-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=59/2-5-14 (min. 0-1-8), 4=55/2-5-14 (min. 0-1-8), 5=126/2-5-14 (min. 0-1-8)

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

NOTES- (7-8)
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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

12/7/2024