

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 #: 23869

JOB: 20-4533-F02

JOB NAME: LOT 1165 CARRIAGE CIRCLE

Wind Code: N/A

Wind Speed: Vult= N/A

Exposure Category: N/A

Mean Roof Height (feet): N/A

8 Truss Design(s)

Trusses:

F01, F02, F03, F04, F05, F06, F07, F08



10/7/2020

Mark Morris

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Job 20-4533-F02	Truss F01	Truss Type Floor Supported Gable	Qty 1	Ply 1	LOT 1165 CARRIAGE CIRCLE 100 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC Job Reference (optional) # 23869
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8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Oct 8 20:11:30 2020 Page 1
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-jjLlNZsXrj22m2bsPf4HWSlzCaV?aXrAmH6QalyVNvB

0-1-8

0-1-8

Scale = 1:41.0

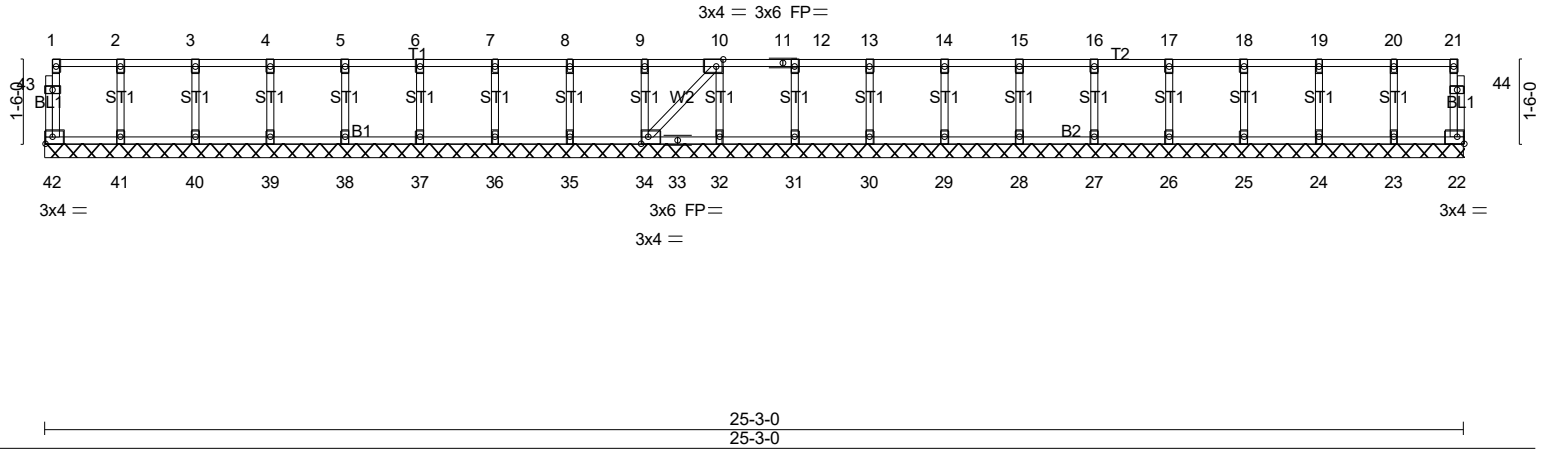


Plate Offsets (X,Y)-- [10:0-1-8,Edge], [34:0-1-8,Edge]

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	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	22		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-SH					
							Weight: 118 lb	FT = 0%F, 0%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 25-3-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 42, 22, 41, 40, 39, 38, 37, 36, 35, 34, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23

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.
 - 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.
 - 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.
 - 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

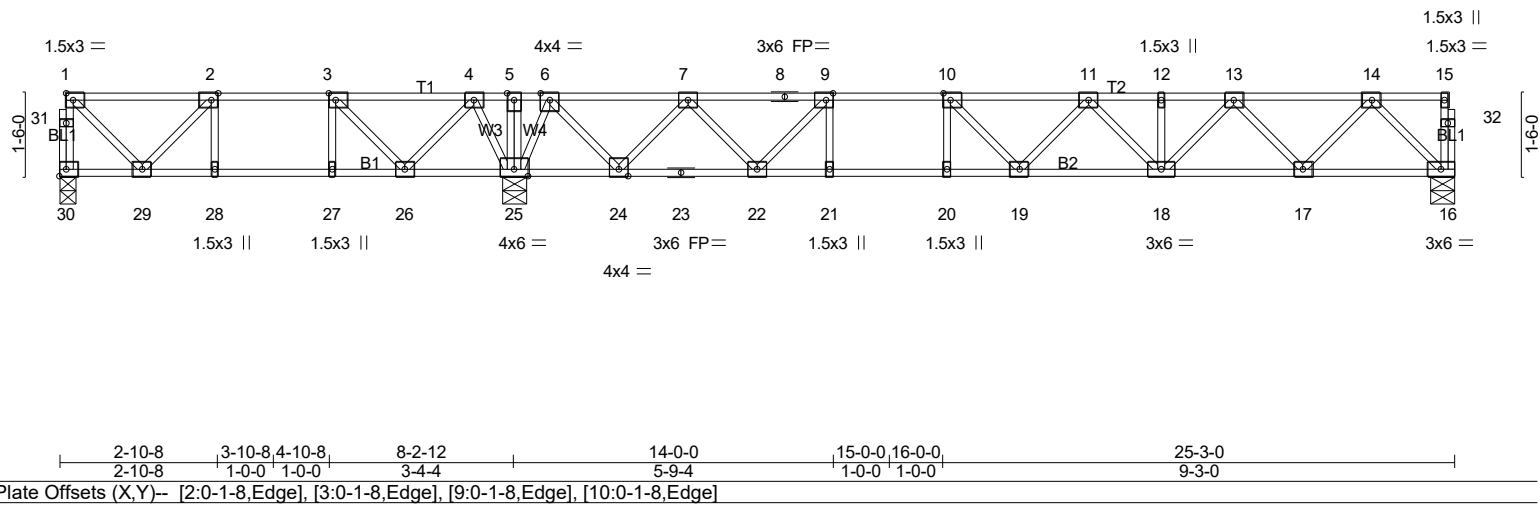


10/7/2020

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Job 20-4533-F02	Truss F02	Truss Type Floor	Qty 10	Ply 1	LOT 1165 CARRIAGE CIRCLE 100 SPRUCE HOLLOW CIRCLE SPRING LAKE, N.C. # 23869
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8:330 s Mar 10 2020 MiTek Industries, Inc. Thu Oct 8 20:11:32 2020 Page 1
ID:MsMZ7fuyNIJd5IEFbR85JwypQ?q-f6T2oFoMKIm0MIFX47lctN9zN?l2KzSDbbXeByVNV9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.82	Vert(LL) -0.24 19-20 >860 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.50	Vert(CT) -0.32 19-20 >637 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.04 16 n/a n/a		
	Code IRC2018/TPI2014				Weight: 138 lb FT = 0%F, 0%E

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

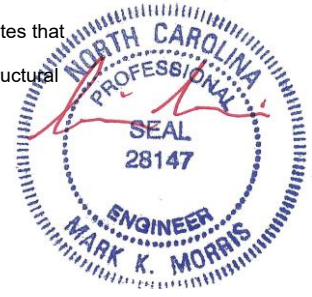
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 30=341/0-3-8 (min. 0-1-8), 16=876/0-5-8 (min. 0-1-8), 25=1521/0-5-8 (min. 0-1-8)
Max Grav 30=394(LC 3), 16=894(LC 7), 25=1526(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 30-31=-390/0, 1-31=-390/0, 1-2=-284/0, 2-3=-522/43, 3-4=-255/230, 4-5=0/735,
5-6=0/735, 6-7=-799/0, 7-8=-1914/0, 8-9=-1914/0, 9-10=-2511/0, 10-11=-2639/0,
11-12=-2306/0, 12-13=-2306/0, 13-14=-1420/0
BOT CHORD 28-29=-43/522, 27-28=-43/522, 26-27=-43/522, 25-26=-454/2, 24-25=-255/116,
23-24=0/1452, 22-23=0/1452, 21-22=0/2511, 20-21=0/2511, 19-20=0/2511, 18-19=0/2618,
17-18=0/1961, 16-17=0/850
WEBS 9-21=0/378, 10-20=-346/0, 1-29=0/385, 2-29=-345/77, 3-26=-536/0, 4-26=0/467,
4-25=-608/0, 9-22=-943/0, 7-22=0/734, 7-24=-1007/0, 6-24=0/1058, 6-25=-1130/0,
10-19=-127/378, 11-18=-452/0, 13-18=0/499, 13-17=-804/0, 14-17=0/847, 14-16=-1200/0

- 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



10/7/2020

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Job 20-4533-F02	Truss F03	Truss Type Floor	Qty 7	Ply 1	LOT 1165 CARRIAGE CIRCLE 100 SPRUCE HOLLOW CIRCLE SPRING LAKE, N.C. # 23869
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8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Oct 8 20:11:33 2020 Page 1
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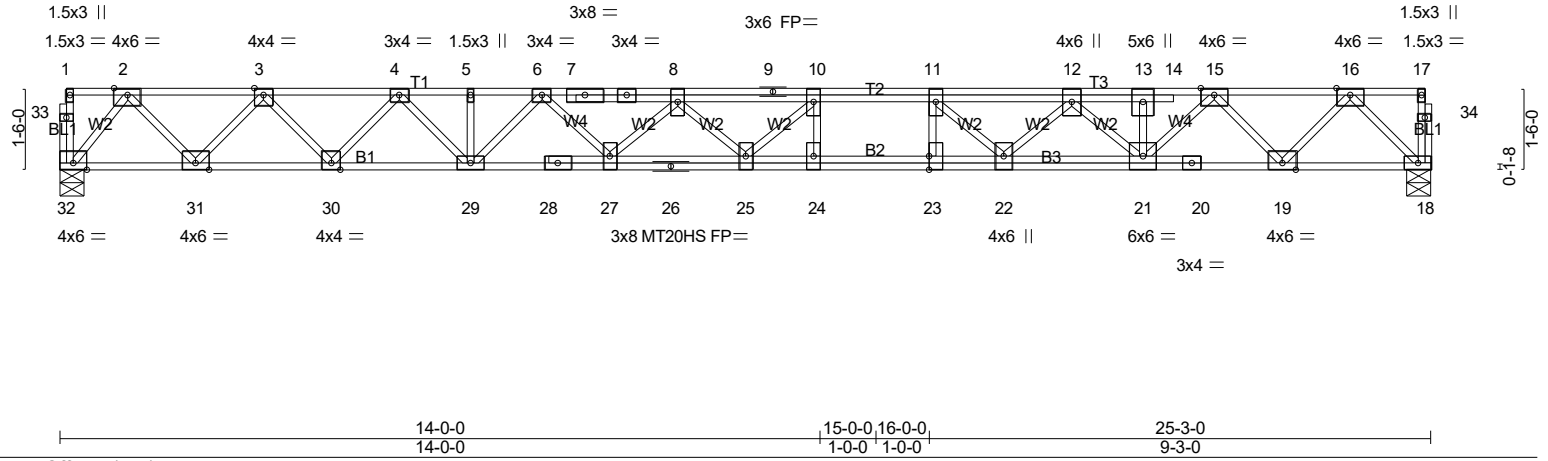


Plate Offsets (X,Y)-- [23:0-3-0,0-0-0]	
LOADING (psf)	SPACING- 2-0-0
TCLL 40.0	Plate Grip DOL 1.00
TCDL 10.0	Lumber DOL 1.00
BCLL 0.0	Rep Stress Incr YES
BCDL 5.0	Code IRC2018/TPI2014
CSI.	DEFL. in (loc) l/defl L/d
TC 0.76	Vert(LL) -0.49 25-27 >614 480
BC 0.88	Vert(CT) -0.67 25-27 >446 360
WB 0.73	Horz(CT) 0.11 18 n/a n/a
Matrix-SH	
PLATES	GRIP
MT20	244/190
MT20HS	187/143
Weight: 167 lb FT = 0%F, 0%E	

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
B1: 2x4 SP SS(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 32=1369/0-5-8 (min. 0-1-8), 18=1369/0-5-8 (min. 0-1-8)

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

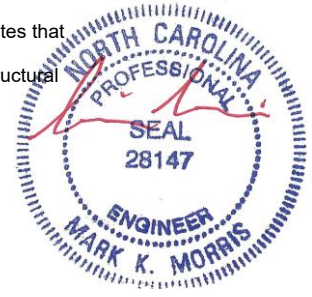
TOP CHORD 2-3=-2124/0, 3-4=-3901/0, 4-5=-5198/0, 5-6=-5198/0, 6-7=-6248/0, 7-8=-6255/0, 8-9=-6803/0, 9-10=-6803/0, 10-11=-6557/0, 11-12=-5846/0, 12-13=-4331/0, 13-14=-4322/0, 14-15=-4331/0, 15-16=-2305/0

BOT CHORD 31-32=0/1095, 30-31=0/3134, 29-30=0/4627, 28-29=0/5726, 27-28=0/5723, 26-27=0/6760, 25-26=0/6760, 24-25=0/6557, 23-24=0/6557, 22-23=0/6557, 21-22=0/5235, 20-21=0/3313, 19-20=0/3315, 18-19=0/1320

WEBS 10-24=-472/57, 11-23=-64/455, 10-25=-327/678, 8-25=-172/376, 8-27=-724/0, 6-27=0/757, 6-29=-765/0, 4-29=0/827, 4-30=-1079/0, 3-30=0/1141, 3-31=-1502/0, 2-31=0/1530, 2-32=-1727/0, 11-22=-1206/0, 12-22=0/932, 12-21=-1248/0, 15-21=0/1437, 15-19=-1502/0, 16-19=0/1464, 16-18=-1865/0

- NOTES-** (6-7)
- 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) 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



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Job 20-4533-F02	Truss F04	Truss Type Floor Supported Gable	Qty 1	Ply 1	LOT 1165 CARRIAGE CIRCLE 100 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC Job Reference (optional) # 23869
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8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Oct 8 20:11:33 2020 Page 1
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-7I0R0buQ7eQdeWKR5ne_85wTQnXinuacSFK4AdyVNV8

0₁-8

0₁-8

Scale = 1:17.8

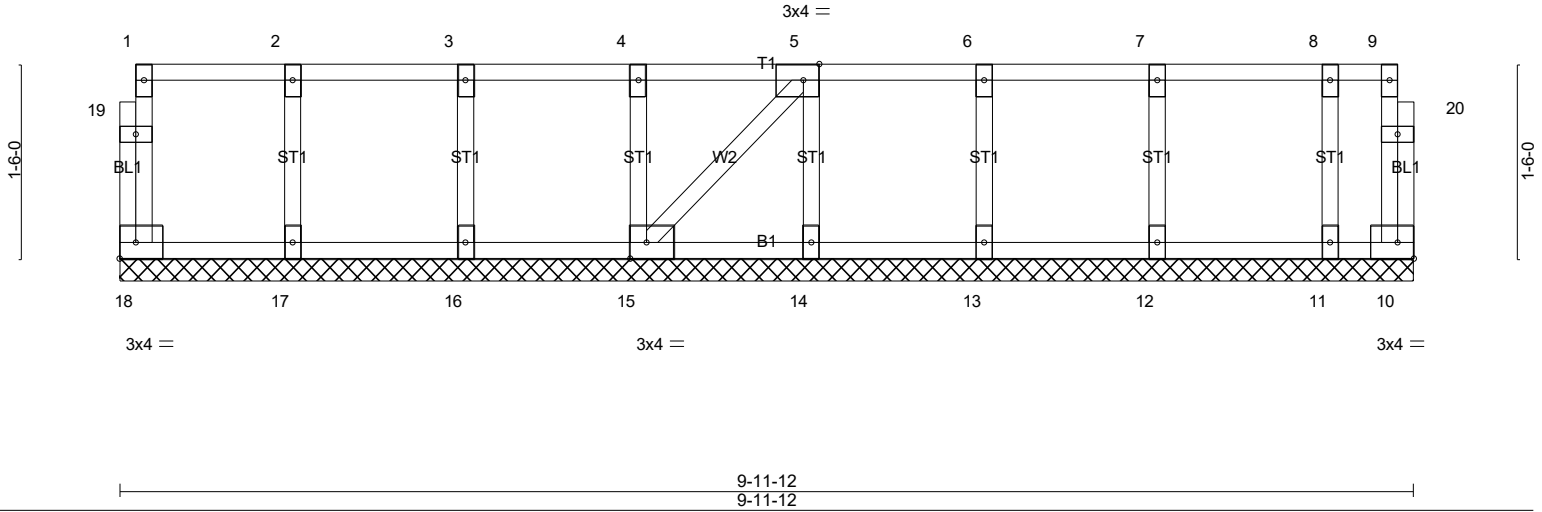


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [15:0-1-8,Edge]

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	10	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-SH						Weight: 52 lb	FT = 0%F, 0%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 9-11-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

NOTES- (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.
- 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.
- 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.
- 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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Job 20-4533-F02	Truss F05	Truss Type Floor	Qty 3	Ply 1	LOT 1165 CARRIAGE CIRCLE 100 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	# 23869
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8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Oct 8 20:11:34 2020 Page 1
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0-1-8
Scale = 1:25.0

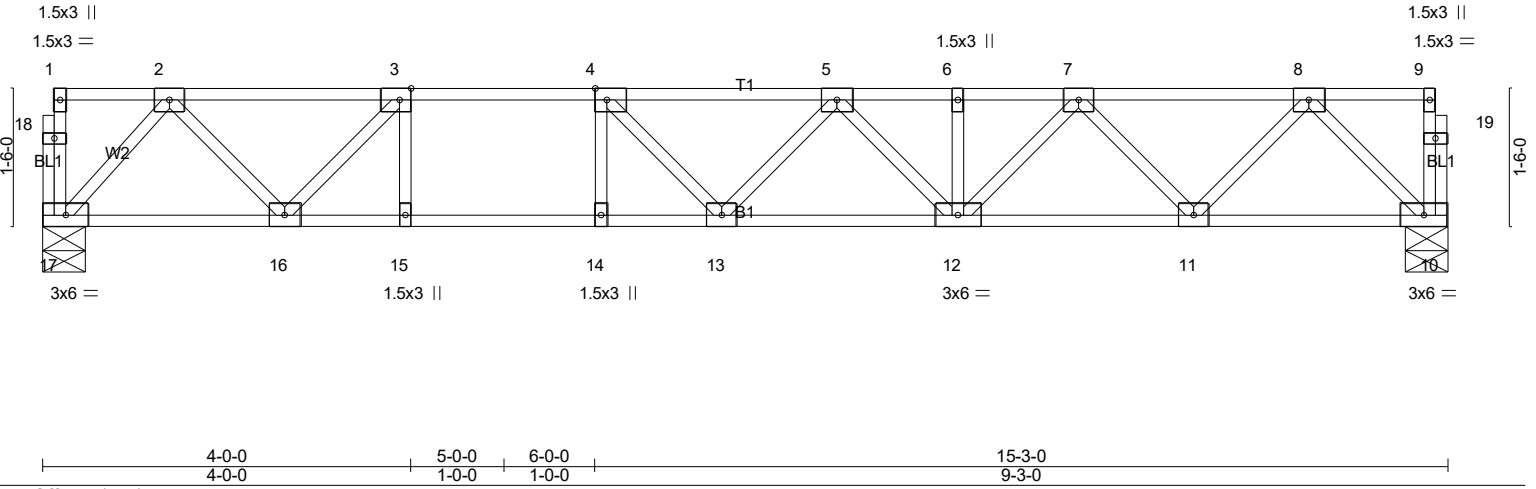


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.80	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.87	Vert(LL) -0.24 13-14 >741 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.39	Vert(CT) -0.33 13-14 >553 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.03 10 n/a n/a		
	Code IRC2018/TPI2014			Weight: 84 lb	FT = 0%F, 0%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 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 17=819/0-5-8 (min. 0-1-8), 10=819/0-5-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1229/0, 3-4=-1959/0, 4-5=-2214/0, 5-6=-2019/0, 6-7=-2019/0, 7-8=-1277/0
 BOT CHORD 16-17=0/674, 15-16=0/1959, 14-15=0/1959, 13-14=0/1959, 12-13=0/2273, 11-12=0/1749, 10-11=0/775
 WEBS 3-15=0/420, 4-14=-392/0, 3-16=-1057/0, 2-16=0/825, 2-17=-998/0, 4-13=-56/479, 5-12=-368/0, 7-12=0/391,
 7-11=-701/0, 8-11=0/746, 8-10=-1094/0

- NOTES-** (5-6)
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - 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.
 - 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.
 - 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 20-4533-F02	Truss F06	Truss Type Floor	Qty 1	Ply 1	LOT 1165 CARRIAGE CIRCLE 100 SPRUCE HOLLOW CIRCLE SPRING LAKE, N	# 23869
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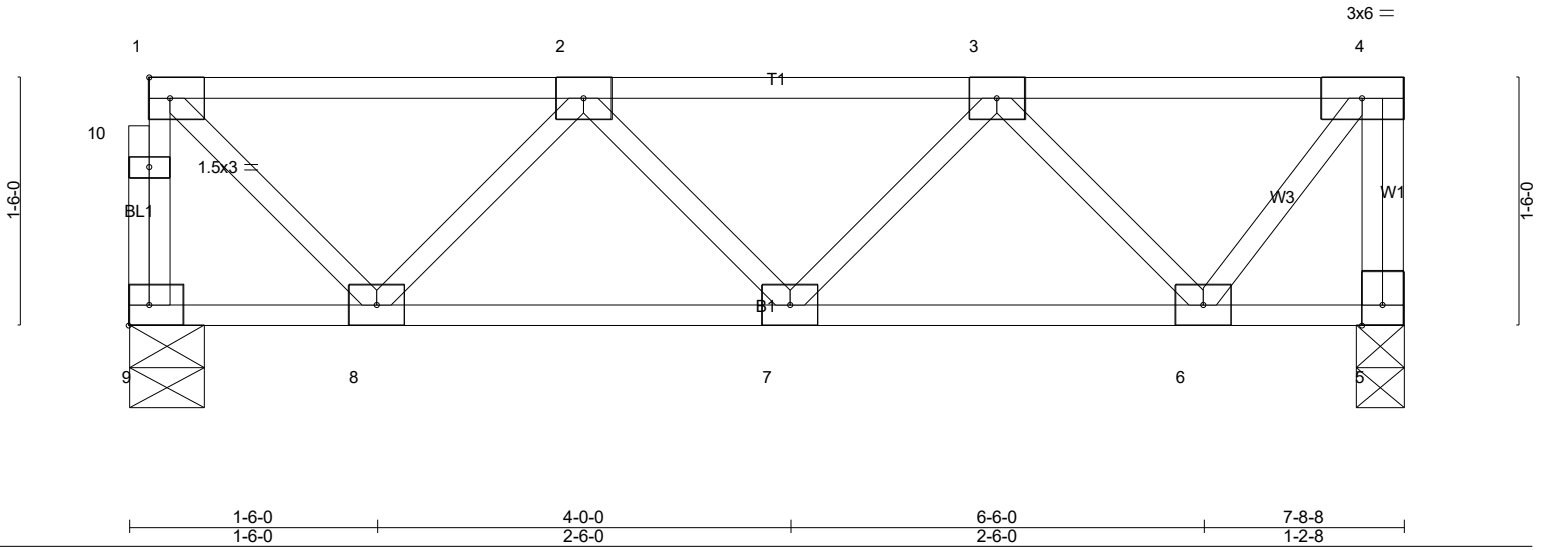
8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Oct 8 20:11:34 2020 Page 1
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0-1-8

1-3-0

0-11-8

Scale = 1:13.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.26	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.12	Vert(LL) -0.01 7 >999 480		
BCLL 0.0	Rep Stress Incr YES	WB 0.19	Vert(CT) -0.01 7 >999 360		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-P	Horz(CT) 0.00 5 n/a n/a		
				Weight: 45 lb	FT = 0%F, 0%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=404/0-5-8 (min. 0-1-8), 5=410/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 9-10=-399/0, 1-10=-399/0, 4-5=-407/0, 1-2=-301/0, 2-3=-545/0
 BOT CHORD 7-8=0/551, 6-7=0/515
 WEBS 1-8=0/409, 2-8=-372/0, 3-6=-398/0, 4-6=0/400

- NOTES-** (5-6)
- 1) All plates are 3x4 MT20 unless otherwise indicated.
 - 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) 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



10/7/2020

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Job 20-4533-F02	Truss F07	Truss Type Floor	Qty 5	Ply 1	LOT 1165 CARRIAGE CIRCLE 100 SPRUCE HOLLOW CIRCLE SPRING LAKE, N	# 23869
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8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Oct 8 20:11:35 2020 Page 1
 ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-3h8BRHwgfFgLtpUqCCgSDW?kUb8iFkRvwZpBFWYvNv6

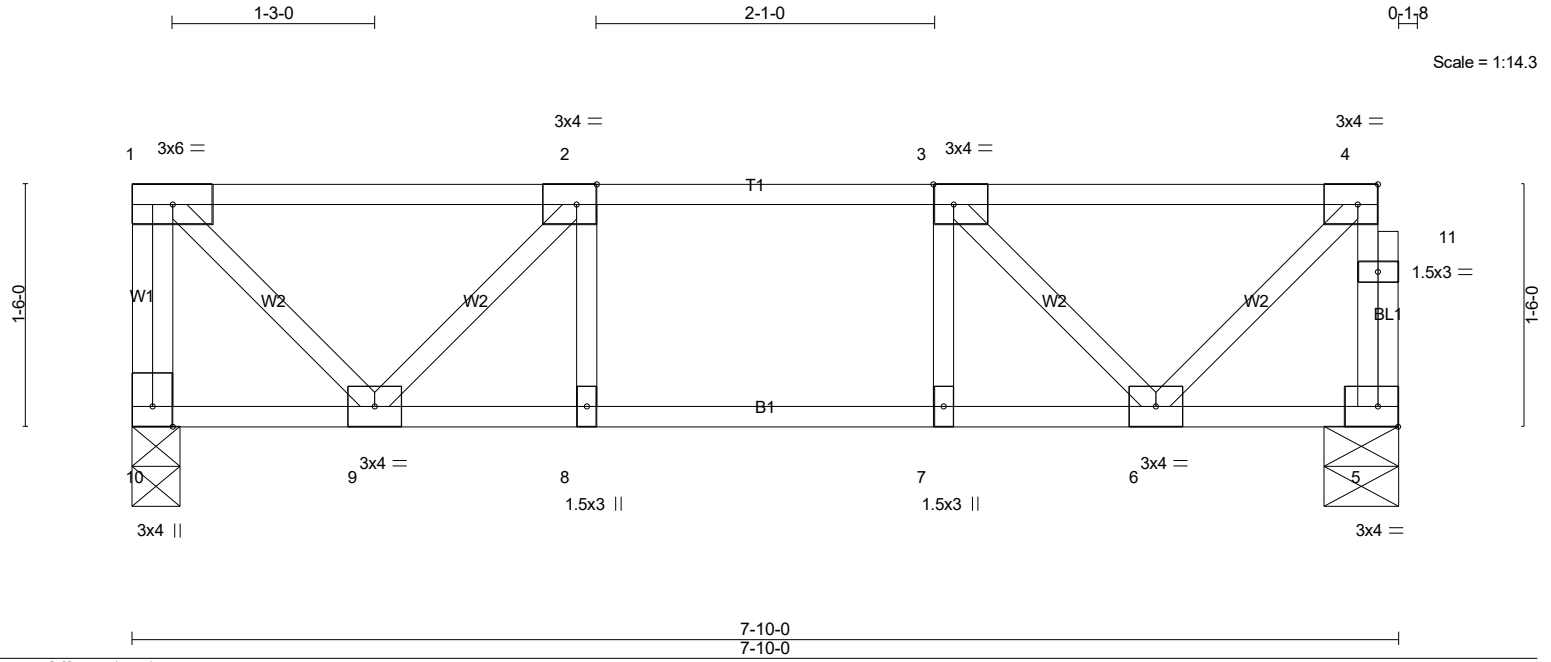


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [4:0-1-8,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.34	Vert(LL) -0.03 8 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.29	Vert(CT) -0.04 8 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.00 5 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-SH		Weight: 45 lb	FT = 0%F, 0%E

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

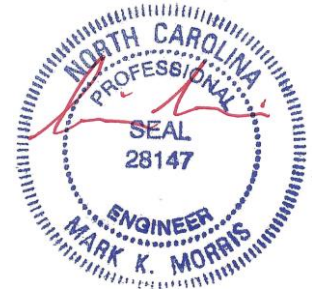
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 10=417/0-3-8 (min. 0-1-8), 5=411/0-5-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-10=-411/0, 5-11=-405/0, 4-11=-404/0, 1-2=-299/0, 2-3=-571/0, 3-4=-300/0
 BOT CHORD 8-9=0/571, 7-8=0/571, 6-7=0/571
 WEBS 4-6=0/409, 1-9=0/423, 3-6=-392/0, 2-9=-393/0

- NOTES-** (5-6)
- 1) Unbalanced floor live loads have been considered for this design.
 - 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) 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



10/7/2020

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Job 20-4533-F02	Truss F08	Truss Type Floor Supported Gable	Qty 1	Ply 1	LOT 1165 CARRIAGE CIRCLE 100 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
Job Reference (optional)					# 23869

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Oct 8 20:11:35 2020 Page 1
 ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-3h8BRHwgfFgLpUqCCgSDW?pybCAFn5vzwZpBFWYvNv6

0-1-8

0-1-8

Scale = 1:14.1

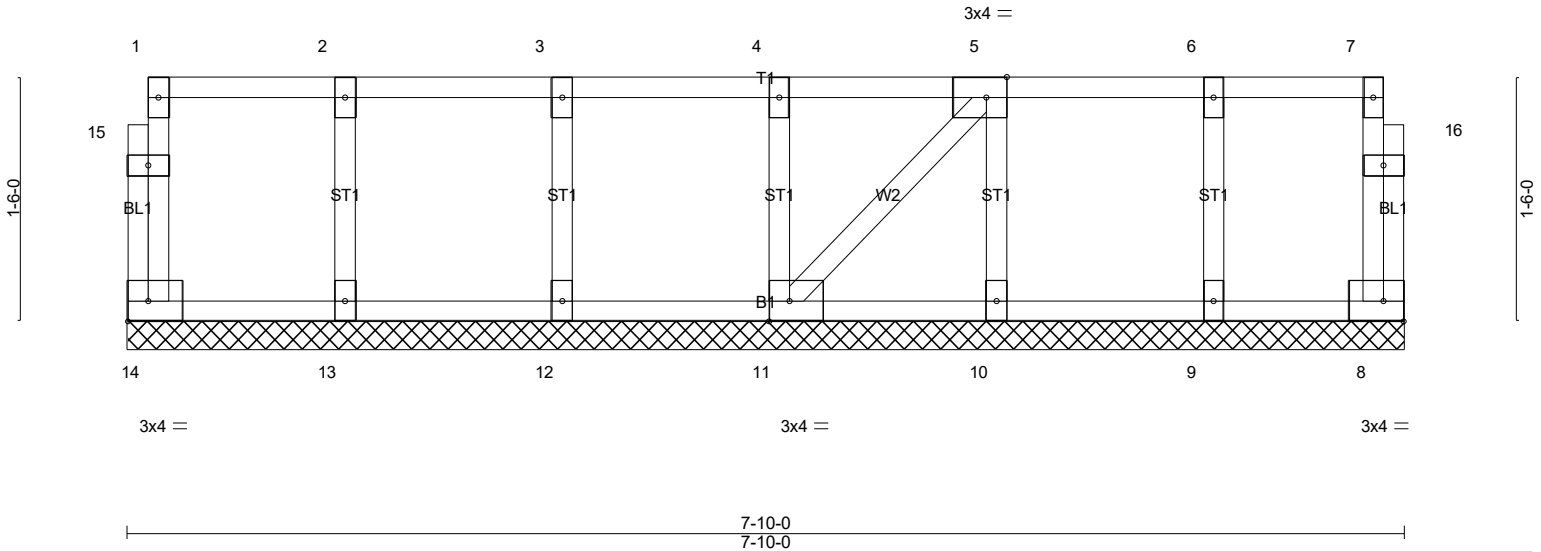


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [11:0-1-8,Edge]

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 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-P						Weight: 42 lb	FT = 0%F, 0%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 7-10-0.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

- NOTES-** (7-8)
- 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) 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



10/7/2020

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