

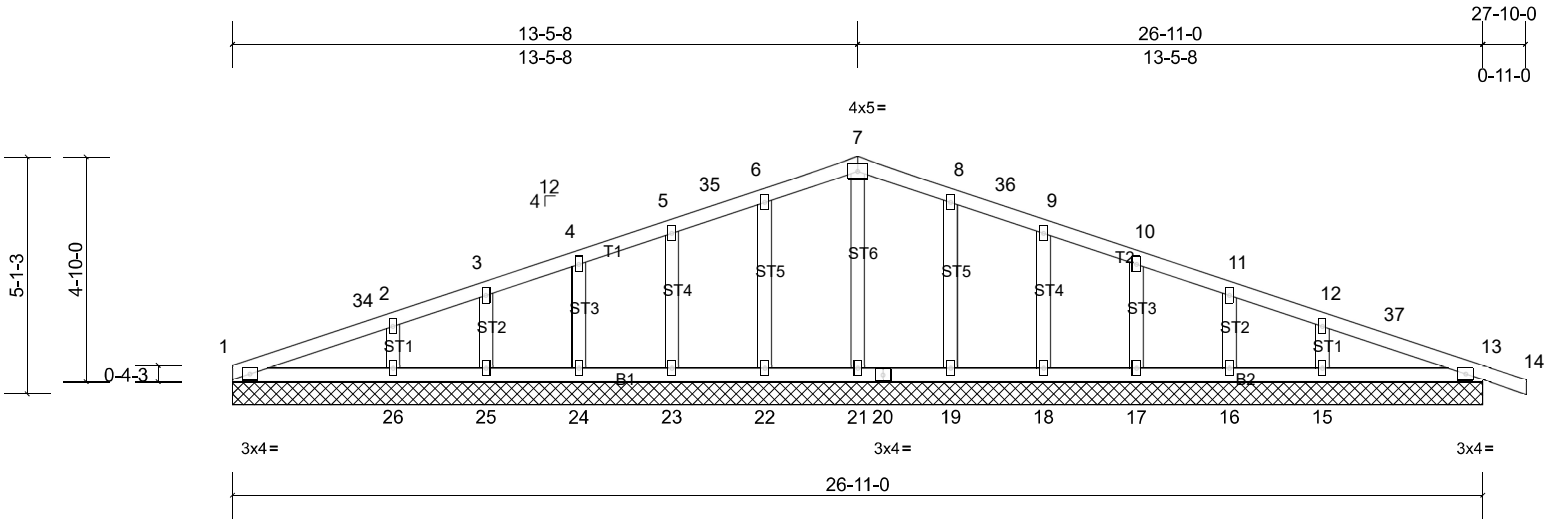
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Dickens 02-23-103
Q2300665	A01	Common Supported Gable	2	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Sun Apr 23 17:07:15

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Scale = 1:49.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	15	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 124 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS All bearings 26-11-0.
(lb) - Max Horiz 1=-45 (LC 10), 27=-45 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s)
13, 15, 16, 17, 18, 19, 22, 23, 24,
25, 26, 31
Max Grav All reactions 250 (lb) or less at joint
(s) 1, 13, 16, 17, 18, 19, 21, 22, 23,
24, 25, 27, 31 except 15=267 (LC
22), 26=281 (LC 21)

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

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-0-0 to 3-0-0, Exterior (2) 3-0-0 to 13-5-8, Corner (3) 13-5-8 to 16-5-8, Exterior (2) 16-5-8 to 27-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 22, 23, 24, 25, 26, 19, 18, 17, 16, 15, 13, 13.
 - 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S)** Standard

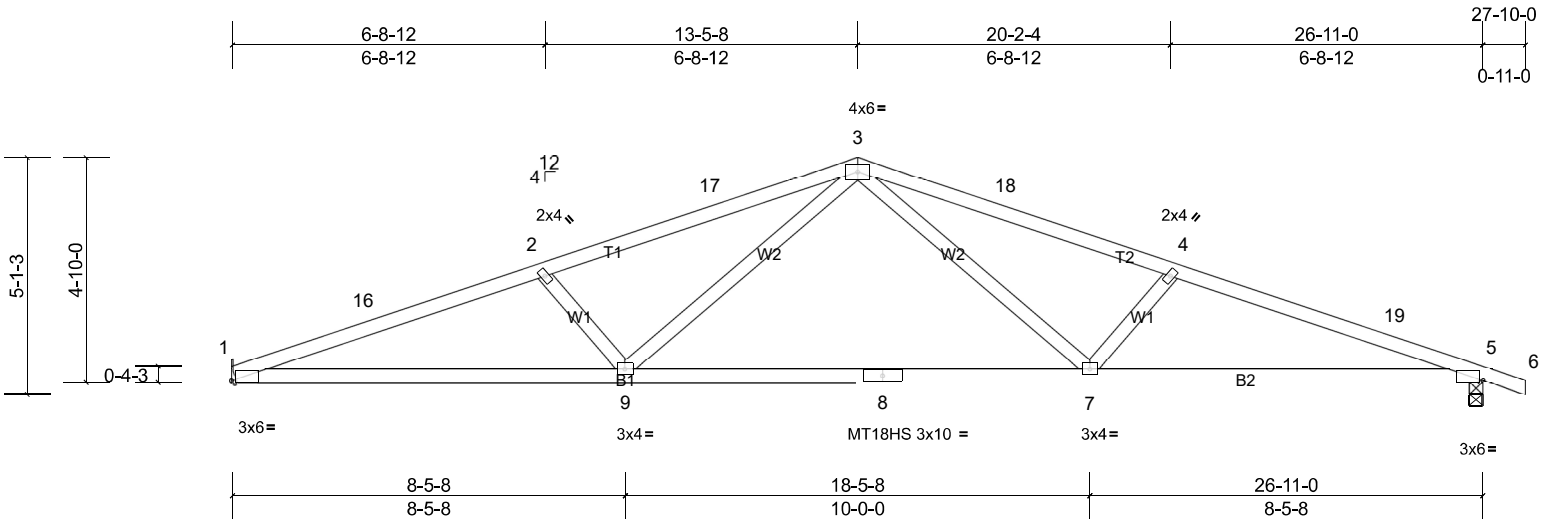
Job Q2300665	Truss A02	Truss Type Common	Qty 9	Ply 1	Value Build Homes - Dickens 02-23-103 Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Sun Apr 23 17:07:16

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Scale = 1:49.6

Plate Offsets (X, Y): [1:0-0-12,Edge], [5:0-0-12,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.24	7-9	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.56	7-9	>578	240	MT18HS	244/190	
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.09	5	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.09	9	>999	240			
											Weight: 111 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 1=1076/ Mechanical, (min. 0-1-8),
 5=1133/0-3-8, (min. 0-1-8)
 Max Horiz 1=-45 (LC 10)
 Max Uplift 1=-7 (LC 12), 5=-31 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-16=-2646/146, 2-16=-2614/160,
 2-17=-2391/132, 3-17=-2318/144,
 3-18=-2313/134, 4-18=-2386/122,
 4-19=-2606/151, 5-19=-2639/131
 BOT CHORD 1-9=-96/2480, 8-9=-40/1608, 7-8=-40/1608,
 5-7=-96/2472
 WEBS 3-7=0/821, 4-7=-452/122, 3-9=0/828,
 2-9=-455/123

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 13-5-8, Exterior (2) 13-5-8 to 16-5-8, Interior (1) 16-5-8 to 27-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1 and 31 lb uplift at joint 5.

- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

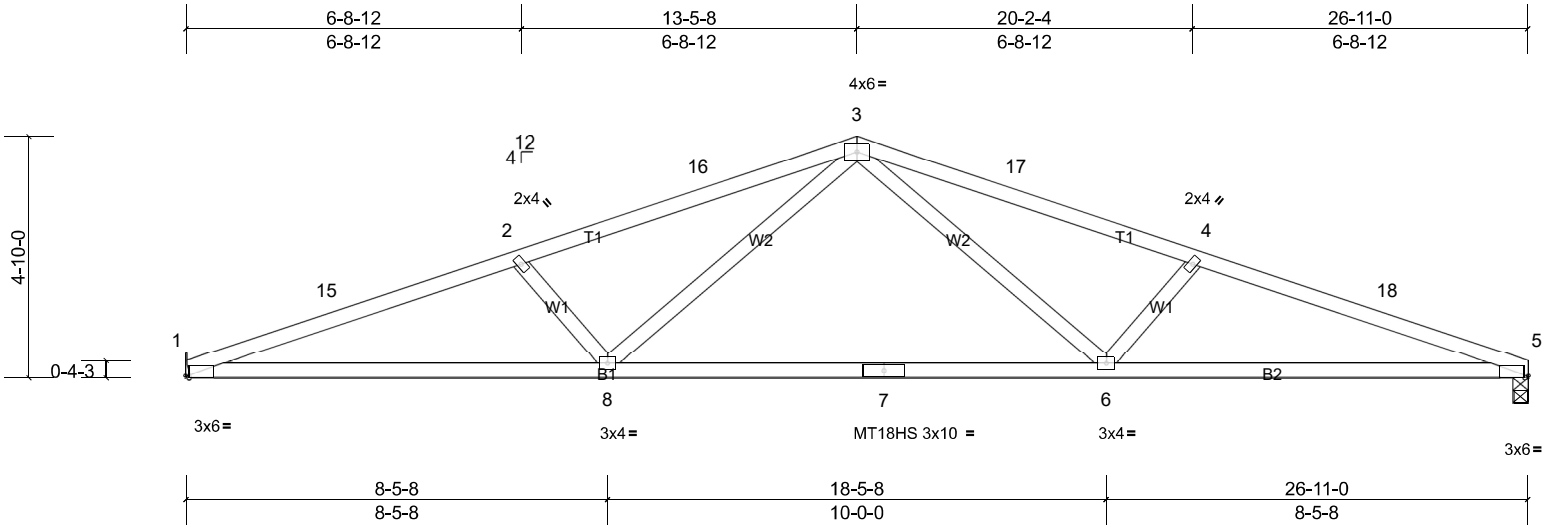
Job Q2300665	Truss A03	Truss Type Common	Qty 4	Ply 1	Value Build Homes - Dickens 02-23-103 Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:46.2

Plate Offsets (X, Y): [1:0-0-12,Edge], [5:0-0-12,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.24	6-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.56	6-8	>578	240	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.09	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.09	8	>999	240		Weight: 110 lb FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 1=1077/ Mechanical, (min. 0-1-8),
 5=1077/0-3-8, (min. 0-1-8)
 Max Horiz 1=-41 (LC 10)
 Max Uplift 1=-8 (LC 12), 5=-8 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
 (lb) or less except when shown.
 TOP CHORD 1-15=-2648/147, 2-15=-2617/161,
 2-16=-2394/132, 3-16=-2321/145,
 3-17=-2321/145, 4-17=-2394/132,
 4-18=-2617/161, 5-18=-2648/147
 BOT CHORD 1-8=-104/2482, 7-8=-46/1611, 6-7=-46/1611,
 5-6=-104/2482
 WEBS 3-6=0/828, 4-6=-455/123, 3-8=0/828,
 2-8=-455/123

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust)
 Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;
 B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0,
 Interior (1) 3-0-0 to 13-5-8, Exterior (2) 13-5-8 to 16-5-8,
 Interior (1) 16-5-8 to 26-11-0 zone; cantilever left and
 right exposed; end vertical left and right exposed; C-C
 for members and forces & MWFRS for reactions shown;
 Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom
 chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf
 on the bottom chord in all areas where a rectangle
 3-06-00 tall by 2-00-00 wide will fit between the bottom
 chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 8 lb uplift at joint 1
 and 8 lb uplift at joint 5.

- This truss is designed in accordance with the 2015
 International Residential Code sections R502.11.1 and
 R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16"
 structural wood sheathing be applied directly to the top
 chord and 1/2" gypsum sheetrock be applied directly to
 the bottom chord.

LOAD CASE(S) Standard

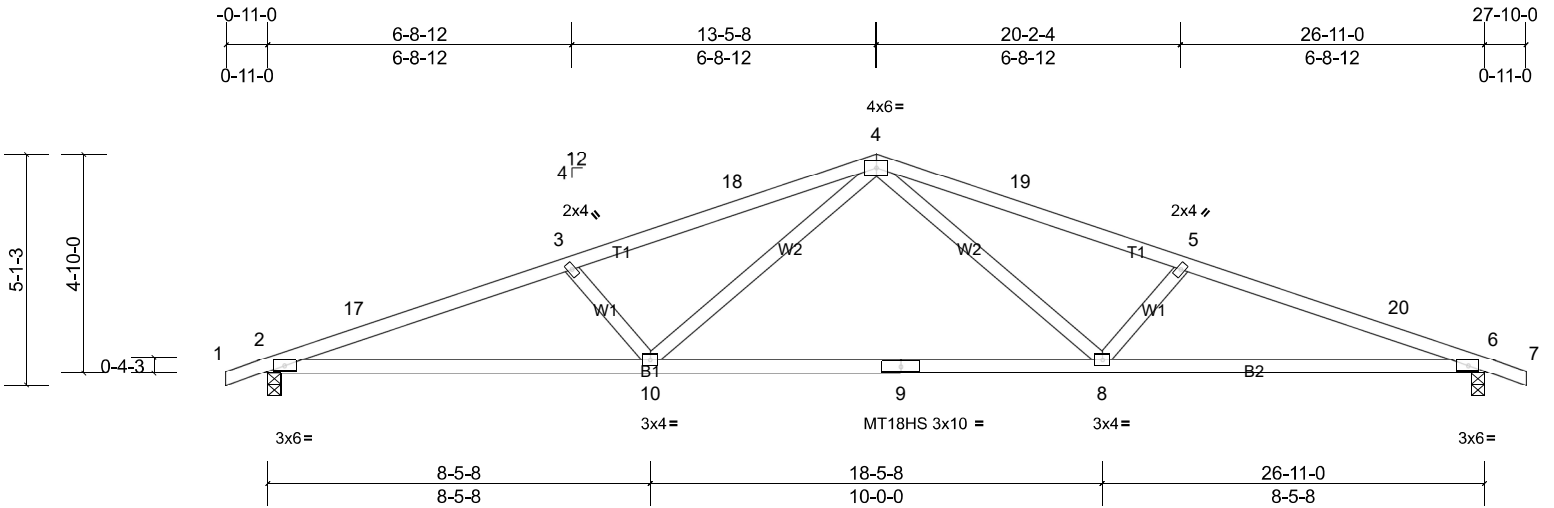
Job Q2300665	Truss A04	Truss Type Common	Qty 3	Ply 1	Value Build Homes - Dickens 02-23-103 Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:51

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.24	8-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.56	8-10	>577	240	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.09	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.09	8-10	>999	240		Weight: 113 lb FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 2=1132/0-3-8, (min. 0-1-8),
 6=1132/0-3-8, (min. 0-1-8)
 Max Horiz 2=-44 (LC 10)
 Max Uplift 2=-31 (LC 12), 6=-31 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-17=-2636/125, 3-17=-2603/145,
 3-18=-2383/117, 4-18=-2310/128,
 4-19=-2310/128, 5-19=-2383/117,
 5-20=-2603/145, 6-20=-2636/125
 BOT CHORD 2-10=-82/2470, 9-10=-34/1605,
 8-9=-34/1605, 6-8=-91/2470
 WEBS 4-8=0/821, 5-8=-452/122, 4-10=0/821,
 3-10=-452/122

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 13-5-8, Exterior (2) 13-5-8 to 16-5-8, Interior (1) 16-5-8 to 27-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2 and 31 lb uplift at joint 6.

- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Dickens 02-23-103
Q2300665	A05	Common	1	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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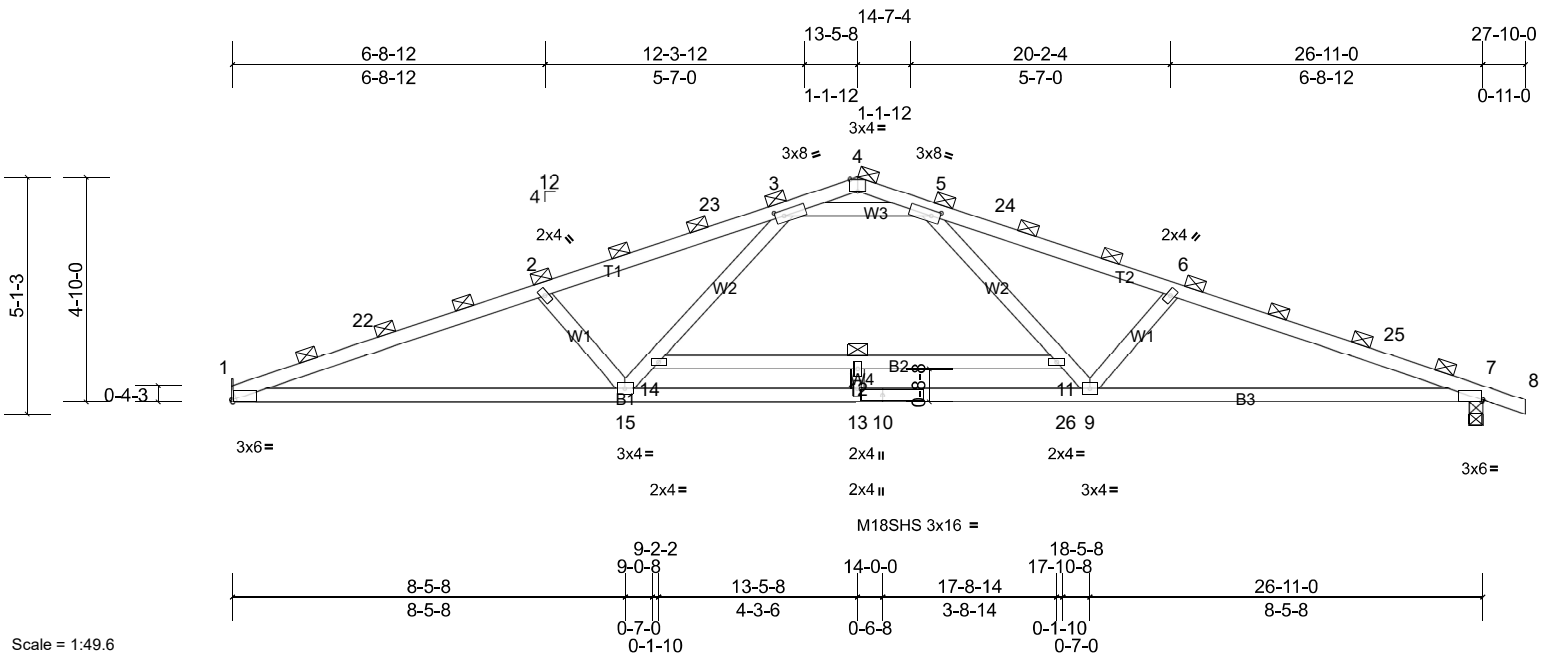


Plate Offsets (X, Y): [1:0-0-4,Edge], [3:0-2-4,0-1-8], [4:0-2-0,Edge], [5:0-2-4,0-1-8], [7:0-0-4,Edge], [10:0-5-8,0-1-8]

Loading	(psf)	Spacing	2-1-8	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.35	12-14	>931	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.74	12-14	>435	240	M18SHS	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.08	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.09	15-18	>999	240		Weight: 126 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP DSS *Except* B2:2x4 SP No.2
WEBS 2x4 SP No.3

BRACING
TOP CHORD 2-0-0 oc purlins (2-7-1 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing. Except:
6-0-0 oc bracing: 11-14

REACTIONS (lb/size) 1=1238/ Mechanical, (min. 0-1-8),
7=1299/0-3-8, (min. 0-1-8)
Max Horiz 1=-48 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD 1-22=-3109/0, 2-22=-3057/0, 2-23=-2848/0,
3-23=-2771/0, 5-24=-2765/0, 6-24=-2842/0,
6-25=-3048/0, 7-25=-3101/0
BOT CHORD 1-15=0/2900, 13-15=0/2170, 10-13=0/2170,
10-26=0/2170, 9-26=0/2170, 7-9=0/2892
WEBS 6-9=471/115, 2-15=-475/117, 3-5=-2013/66,
14-15=0/788, 3-14=0/983, 5-11=0/878,
9-11=0/781

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust)
Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;
B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFERS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0,
Interior (1) 3-0-0 to 13-5-8, Exterior (2) 13-5-8 to 16-5-8,
Interior (1) 16-5-8 to 27-10-0 zone; cantilever left and
right exposed ; end vertical left and right exposed;C-C
for members and forces & MWFERS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.

- 7) This truss is designed in accordance with the 2015
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size
or the orientation of the purlin along the top and/or
bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Dickens 02-23-103
Q2300665	A06	Common	4	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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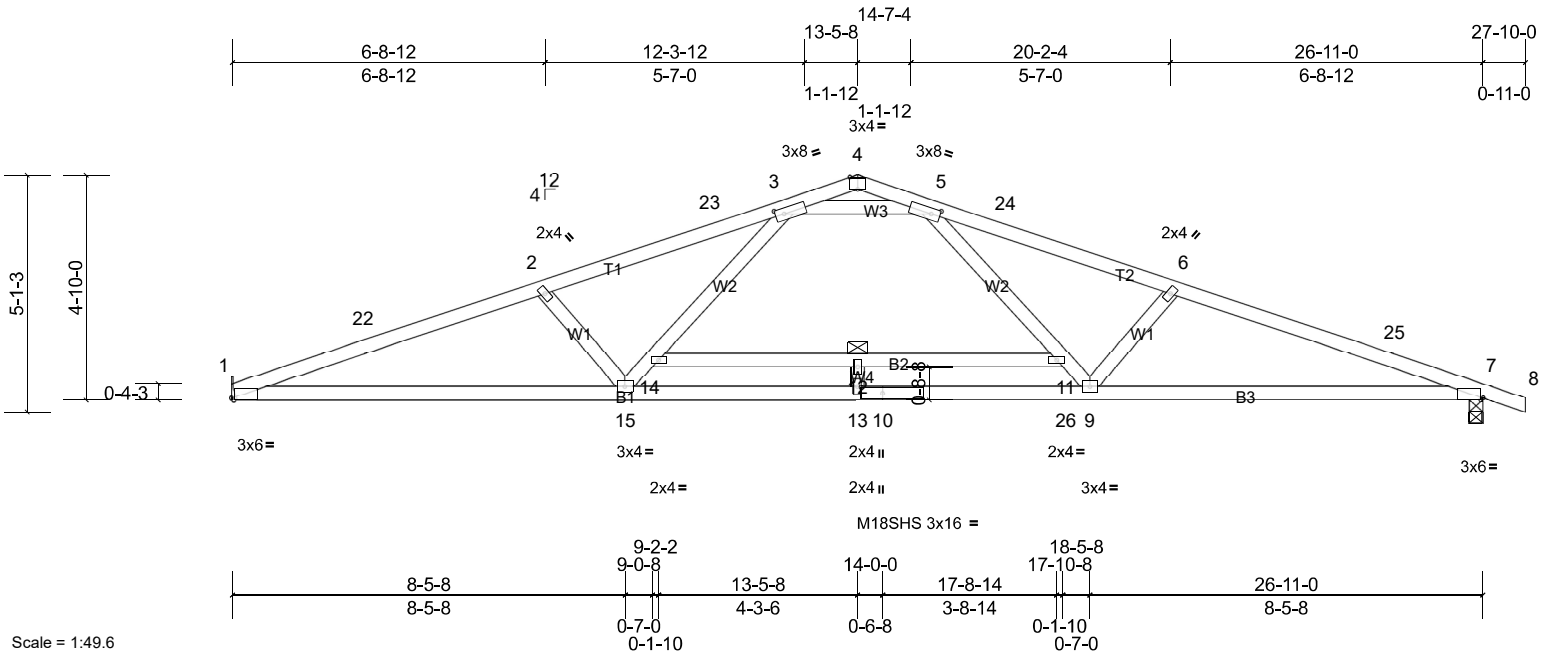


Plate Offsets (X, Y): [1:0-0-8,Edge], [3:0-2-4,0-1-8], [4:0-2-0,Edge], [5:0-2-4,0-1-8], [7:0-0-8,Edge], [10:0-5-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.53	Vert(LL)	-0.36	12-14	>902	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.77	13	>421	240	M18SHS 244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.09	7	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.09	15-18	>999	240	Weight: 126 lb FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1 *Except* B2:2x4 SP No.2
 WEBS 2x4 SP No.3

8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

BRACING
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied. Except:
 6-0-0 oc bracing: 11-14

LOAD CASE(S) Standard

REACTIONS (lb/size) 1=1165/ Mechanical, (min. 0-1-8),
 7=1222/0-3-8, (min. 0-1-8)
 Max Horiz 1=-45 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-22=-2912/0, 2-22=-2876/0, 2-23=-2676/0, 3-23=-2603/0, 5-24=-2598/0, 6-24=-2670/0, 6-25=-2868/0, 7-25=-2905/0
 BOT CHORD 1-15=0/2728, 13-15=0/2031, 10-13=0/2031, 10-26=0/2031, 9-26=0/2031, 7-9=0/2720
 WEBS 6-9=-448/109, 2-15=-453/111, 3-5=-1852/60, 14-15=0/746, 3-14=0/923, 5-11=0/830, 9-11=0/739

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 13-5-8, Exterior (2) 13-5-8 to 16-5-8, Interior (1) 16-5-8 to 27-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

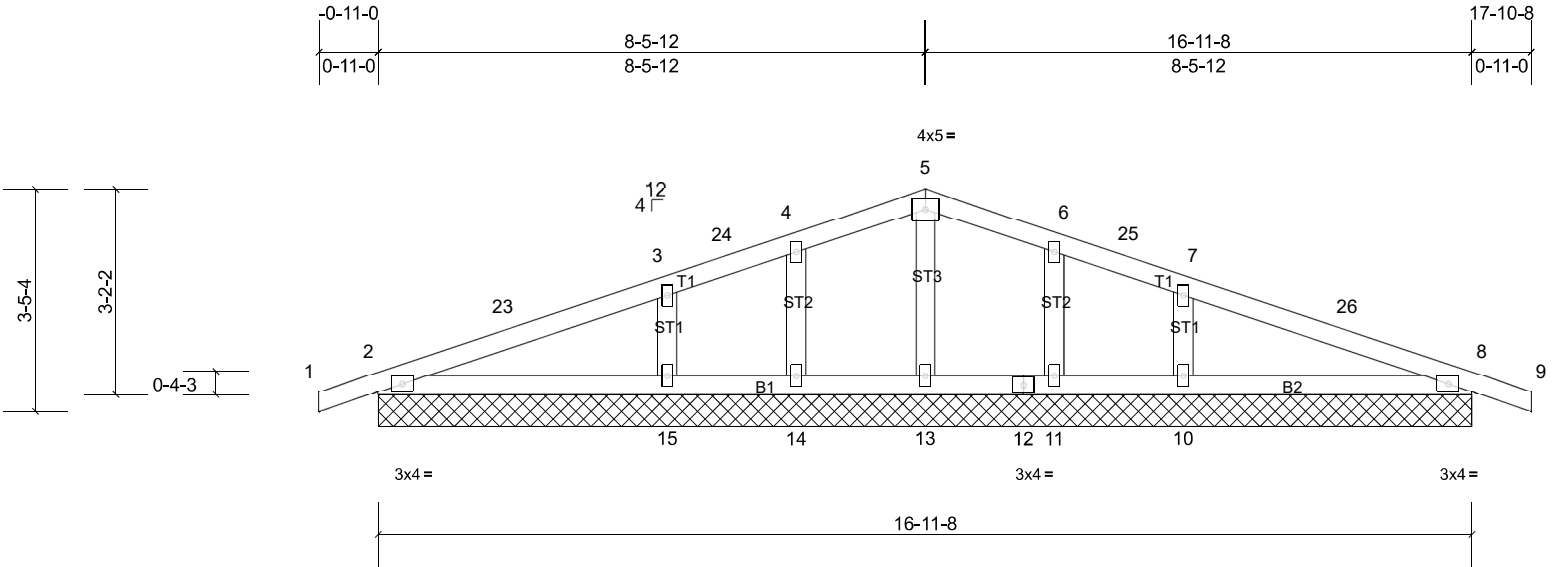
Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Dickens 02-23-103
Q2300665	B01	Common Supported Gable	1	1	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:35.7

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 68 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS All bearings 16-11-8.

(lb) - Max Horiz 2=27 (LC 11), 16=27 (LC 11)
 Max Uplift All uplift 100 (lb) or less at joint(s)
 2, 8, 10, 11, 13, 14, 15, 16, 22
 Max Grav All reactions 250 (lb) or less at joint
 (s) 2, 8, 11, 14, 16, 22 except
 10=433 (LC 1), 13=546 (LC 1),
 15=356 (LC 1)

FORCES

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

TOP CHORD 2-23=-305/551, 3-23=-299/593,
 3-24=-260/540, 4-24=-253/556,
 4-5=-225/569, 5-6=-219/571, 6-25=-229/548,
 7-25=-233/515, 7-26=-275/597,
 8-26=-287/551
 BOT CHORD 2-15=-523/326, 14-15=-523/326,
 13-14=-523/326, 12-13=-523/326,
 11-12=-523/326, 10-11=-523/326,
 8-10=-523/326
 WEBS 5-13=-476/211, 7-10=-273/129

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust)
 Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;
 B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Corner (3) -0-11-0 to
 2-1-0, Exterior (2) 2-1-0 to 8-5-12, Corner (3) 8-5-12 to
 11-5-12, Exterior (2) 11-5-12 to 17-10-8 zone; cantilever
 left and right exposed; end vertical left and right
 exposed; C-C for members and forces & MWFRS for
 reactions shown; Lumber DOL=1.60 plate grip
 DOL=1.60
- Truss designed for wind loads in the plane of the truss
 only. For studs exposed to wind (normal to the face),
 see Standard Industry Gable End Details as applicable,
 or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
 chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
 on the bottom chord in all areas where a rectangle
 3'-06-00 tall by 2'-00-00 wide will fit between the bottom
 chord and any other members.
- Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 100 lb uplift at joint
 (s) 2, 13, 14, 15, 11, 10, 2.
- This truss is designed in accordance with the 2015
 International Residential Code sections R502.11.1 and
 R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16"
 structural wood sheathing be applied directly to the top
 chord and 1/2" gypsum sheetrock be applied directly to
 the bottom chord.

LOAD CASE(S) Standard

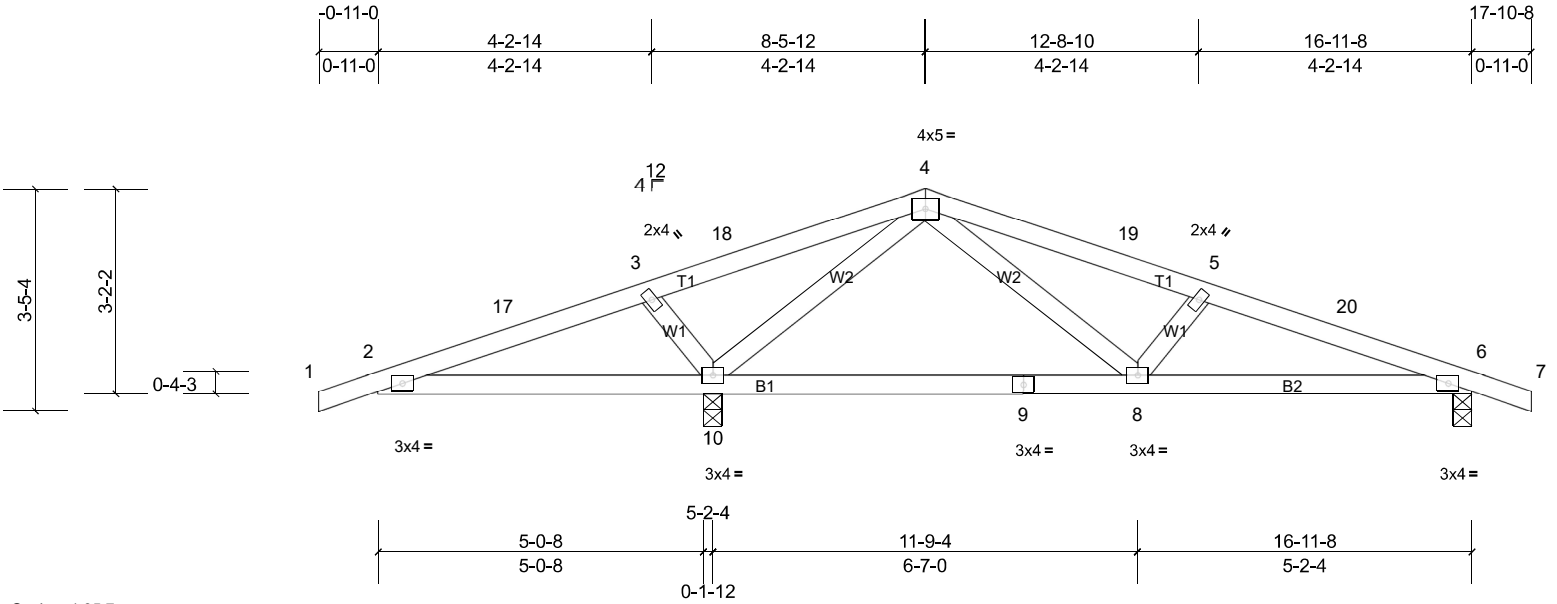
Job Q2300665	Truss B02	Truss Type Common	Qty 2	Ply 1	Value Build Homes - Dickens 02-23-103 Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:35.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.04	8-10	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.07	8-10	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	6	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	-0.02	8-10	>999	240	Weight: 72 lb FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

BRACING
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

LOAD CASE(S) Standard

REACTIONS (lb/size) 6=410/0-3-8, (min. 0-1-8),
 10=1057/0-3-8, (min. 0-1-8)
 Max Horiz 10=28 (LC 11)
 Max Uplift 6=-10 (LC 9), 10=-148 (LC 12)
 Max Grav 6=455 (LC 22), 10=1057 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-17=-466/572, 3-17=-461/620,
 3-18=-490/720, 4-18=-485/794, 4-19=-595/0,
 5-19=-640/0, 5-20=-762/0, 6-20=-781/0
 BOT CHORD 2-10=-542/468, 6-8=0/726
 WEBS 3-10=-307/134, 4-10=-1017/403, 4-8=0/522,
 5-8=-274/96

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 8-5-12, Exterior (2) 8-5-12 to 11-5-12, Interior (1) 11-5-12 to 17-10-8 zone; cantilever left exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 10 and 10 lb uplift at joint 6.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

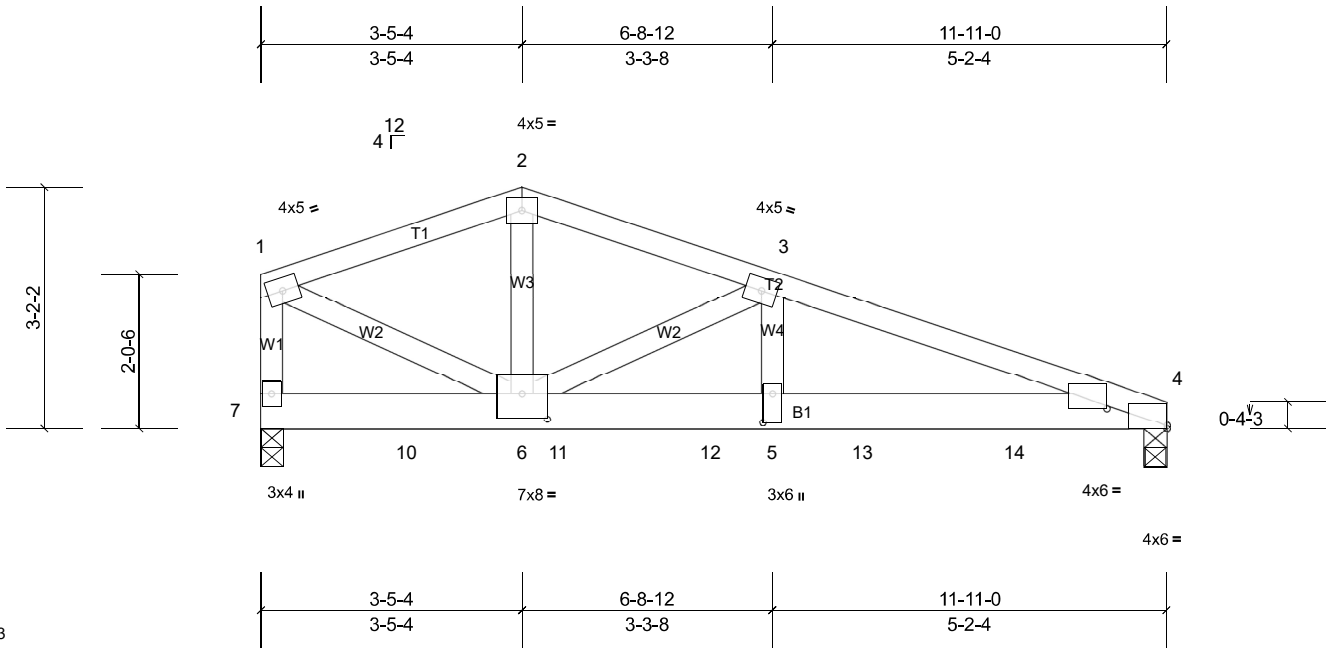
Job Q2300665	Truss C01	Truss Type Common Girder	Qty 1	Ply 2	Value Build Homes - Dickens 02-23-103 Job Reference (optional)
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Scale = 1:30.3

Plate Offsets (X, Y): [4:Edge,0-0-8], [4:0-9-8,0-2-11], [5:0-4-8,0-1-8], [6:0-4-0,0-4-0]

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.08	5-9	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.16	5-9	>877	240	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.02	4	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.05	5-9	>999	240	Weight: 128 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.3 *Except* W1:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=3046/0-3-8, (min. 0-1-9),
7=3149/0-3-8, (min. 0-1-9)
Max Horiz 7=-59 (LC 6)
Max Uplift 4=-49 (LC 8), 7=-53 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3335/78, 2-3=-3337/80, 3-4=-6788/126,
1-7=-2705/61
BOT CHORD 6-11=-88/6436, 11-12=-88/6436,
5-12=-88/6436, 5-13=-88/6436,
13-14=-88/6436, 4-14=-88/6436
WEBS 2-6=-9/1952, 1-6=-40/3398, 3-6=-3722/83,
3-5=-3/2496

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-8-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=120mph (3-second gust)
Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 4 and 53 lb uplift at joint 7.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1057 lb down and 19 lb up at 1-11-0, 1056 lb down and 19 lb up at 3-11-0, 1056 lb down and 19 lb up at 5-11-0, and 1056 lb down and 19 lb up at 7-11-0, and 1056 lb down and 19 lb up at 9-11-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-2=-58, 2-4=-58, 4-7=-19
Concentrated Loads (lb)
Vert: 10=-1057, 11=-1056, 12=-1056, 13=-1056, 14=-1056

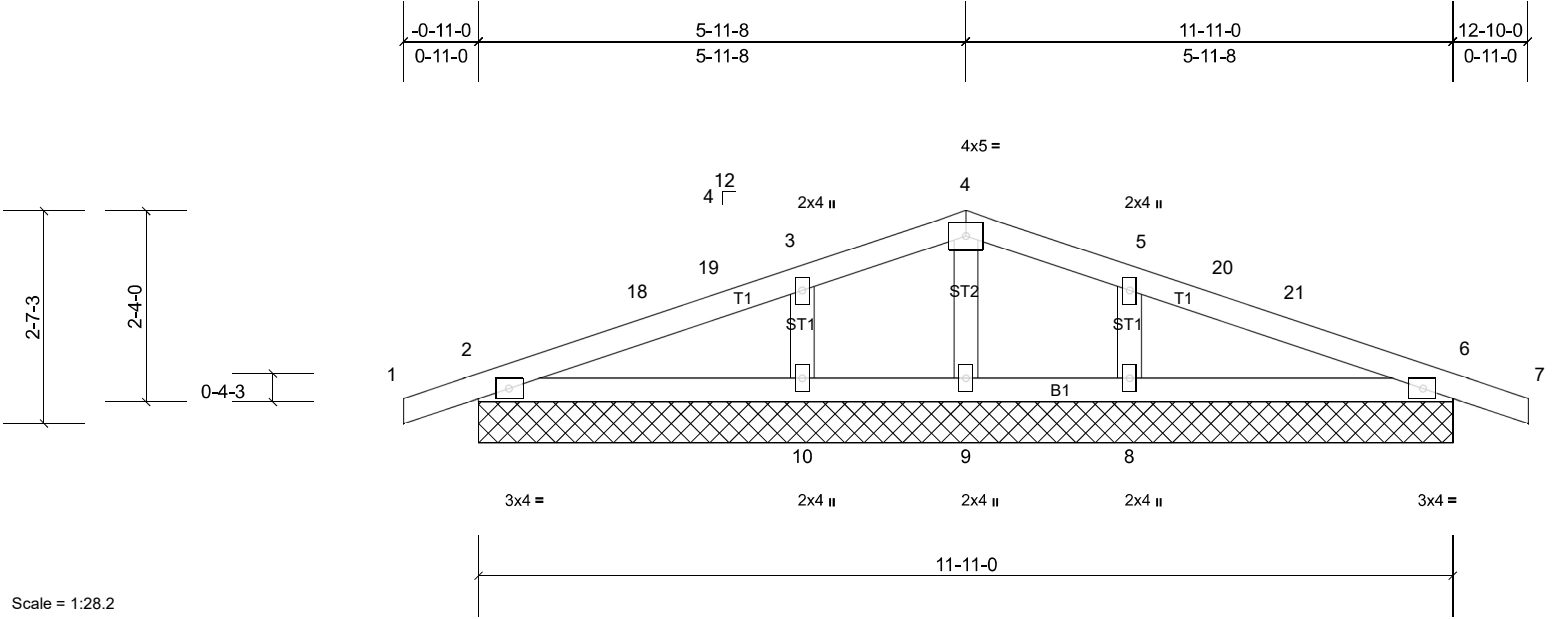
Job Q2300665	Truss D01	Truss Type Common Supported Gable	Qty 1	Ply 1	Value Build Homes - Dickens 02-23-103 Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

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Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 45 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS All bearings 11-11-0.
 (lb) - Max Horiz 2=-20 (LC 10), 11=-20 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s)
 2, 6, 8, 10, 11, 15
 Max Grav All reactions 250 (lb) or less at joint
 (s) 2, 6, 9, 11, 15 except 8=310 (LC
 1), 10=310 (LC 1)

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust)
 Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;
 B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Corner (3) -0-11-0 to
 2-1-0, Exterior (2) 2-1-0 to 5-11-8, Corner (3) 5-11-8 to
 8-11-8, Exterior (2) 8-11-8 to 12-10-0 zone; cantilever left
 and right exposed; end vertical left and right exposed; C-
 C for members and forces & MWFRS for reactions
 shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss
 only. For studs exposed to wind (normal to the face),
 see Standard Industry Gable End Details as applicable,
 or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom
 chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf
 on the bottom chord in all areas where a rectangle
 3-06-00 tall by 2-00-00 wide will fit between the bottom
 chord and any other members.
 - Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 100 lb uplift at joint
 (s) 2, 6, 10, 8, 2, 6.

- This truss is designed in accordance with the 2015
 International Residential Code sections R502.11.1 and
 R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16"
 structural wood sheathing be applied directly to the top
 chord and 1/2" gypsum sheetrock be applied directly to
 the bottom chord.
- LOAD CASE(S)** Standard

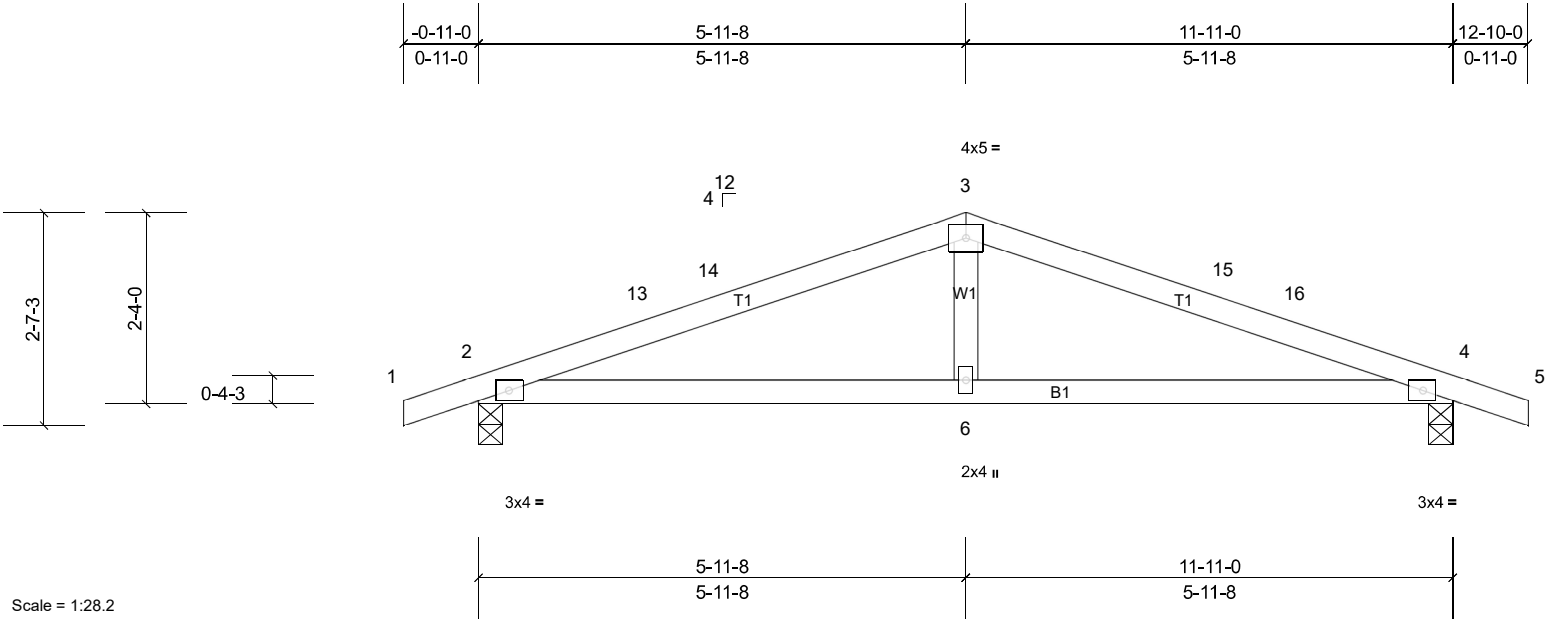
Job Q2300665	Truss D02	Truss Type Common	Qty 2	Ply 1	Value Build Homes - Dickens 02-23-103 Job Reference (optional)
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.04	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.08	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.02	6-12	>999	240	Weight: 42 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

BRACING
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

LOAD CASE(S) Standard

REACTIONS (lb/size) 2=532/0-3-8, (min. 0-1-8),
 4=532/0-3-8, (min. 0-1-8)
 Max Horiz 2=-20 (LC 10)
 Max Uplift 2=-26 (LC 12), 4=-26 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-13=-881/93, 13-14=-849/96,
 3-14=-849/108, 3-15=-849/108,
 15-16=-849/96, 4-16=-881/93
 BOT CHORD 2-6=-44/806, 4-6=-44/806
 WEBS 3-6=0/263

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 5-11-8, Exterior (2) 5-11-8 to 8-11-8, Interior (1) 8-11-8 to 12-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 2 and 26 lb uplift at joint 4.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Value Build Homes - Dickens 02-23-103
Q2300665	D03	Common Girder	1	2	Job Reference (optional)

Carolina Structural Systems, Star, NC 27356, JSH

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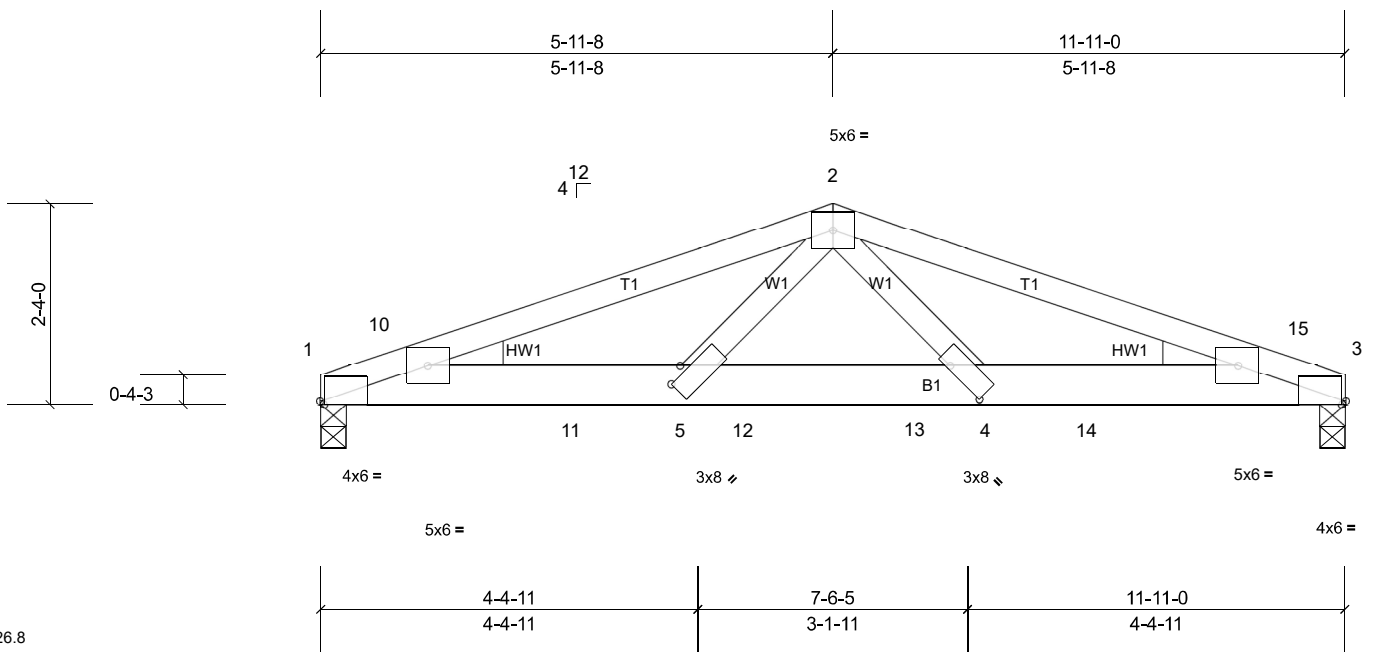


Plate Offsets (X, Y): [1:0-0-8,Edge], [3:0-0-8,Edge], [3:1-0-0,0-2-8], [4:0-6-4,0-0-8], [5:0-2-12,0-1-0]

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.11	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.23	4-5	>633	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	Horz(CT)	0.05	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS	Wind(LL)	0.01	4-9	>999	240	Weight: 113 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=3917/0-3-8, (min. 0-2-5),
3=3868/0-3-8, (min. 0-2-5)
Max Horiz 1=-17 (LC 6)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-8389/0, 2-3=-8306/0
BOT CHORD 1-10=0/7893, 1-10=0/7924, 1-11=0/7927,
5-11=0/7927, 5-12=0/5678, 12-13=0/5678,
4-13=0/5678, 4-14=0/7863, 3-14=0/7863,
3-15=0/7859, 3-15=0/7830
WEBS 2-5=0/3377, 2-4=0/3282

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust)
Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional); cantilever left and right exposed ;
end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1147 lb down at 0-10-15, 1146 lb down at 2-10-15, 1146 lb down at 4-10-15, 1146 lb down at 6-10-15, and 1218 lb down at 8-10-15, and 1059 lb down and 18 lb up at 11-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-2=-58, 2-3=-58, 1-3=-19
Concentrated Loads (lb)
Vert: 10=-1147, 11=-1146, 12=-1146, 13=-1146,
14=-1218, 15=-1059

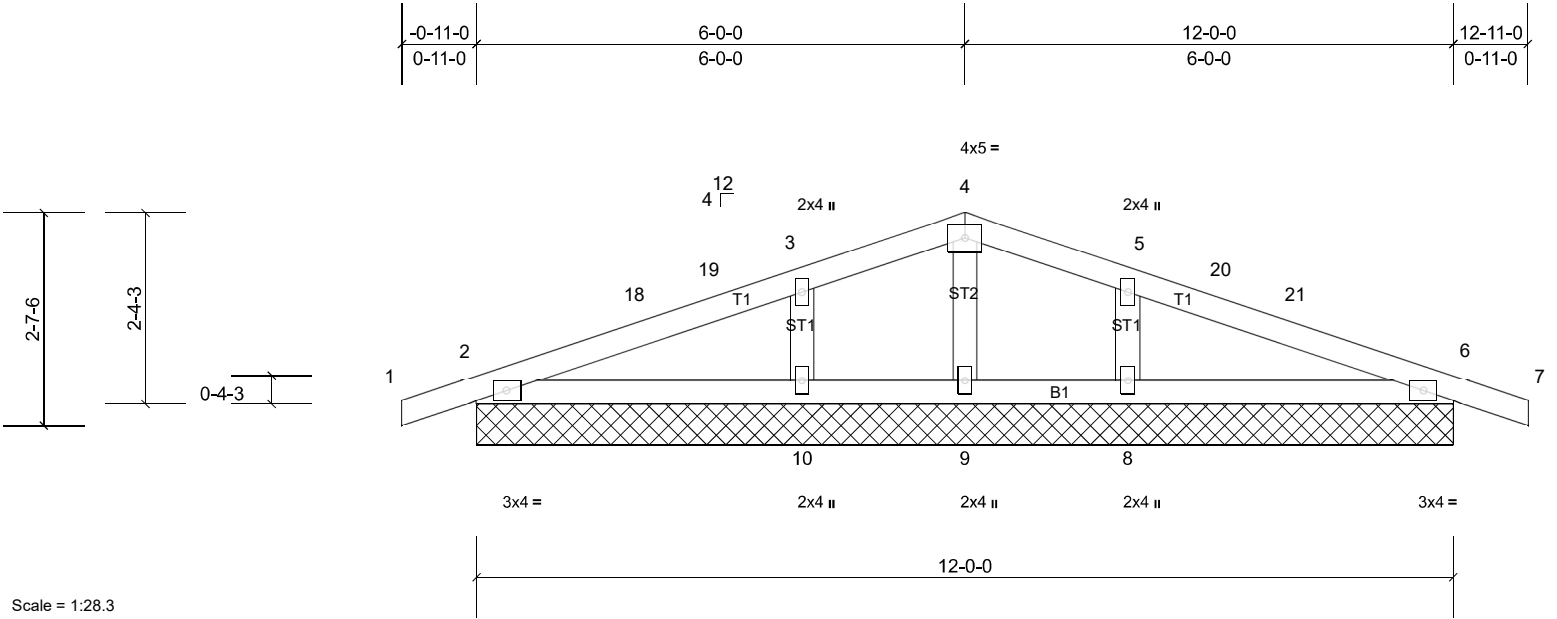
Job Q2300665	Truss E01	Truss Type Common Supported Gable	Qty 1	Ply 1	Value Build Homes - Dickens 02-23-103 Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

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Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 46 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS All bearings 12-0-0.
 (lb) - Max Horiz 2=-20 (LC 10), 11=-20 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6, 8, 9, 10, 11, 17
 Max Grav All reactions 250 (lb) or less at joint (s) 2, 6, 11, 17 except 8=391 (LC 1), 9=289 (LC 1), 10=341 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-18=-342/512, 18-19=-337/516, 3-19=-332/549, 3-4=-280/511, 4-5=-269/511, 5-20=-314/553, 20-21=-320/518, 6-21=-324/512
 BOT CHORD 2-10=-485/364, 9-10=-485/364, 8-9=-485/364, 6-8=-485/364
 WEBS 4-9=-335/199

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-11-0 to 2-1-0, Exterior (2) 2-1-0 to 6-0-0, Corner (3) 6-0-0 to 9-0-0, Exterior (2) 9-0-0 to 12-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 9, 10, 8, 2.
 - 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 6, 11.
 - 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S)** Standard

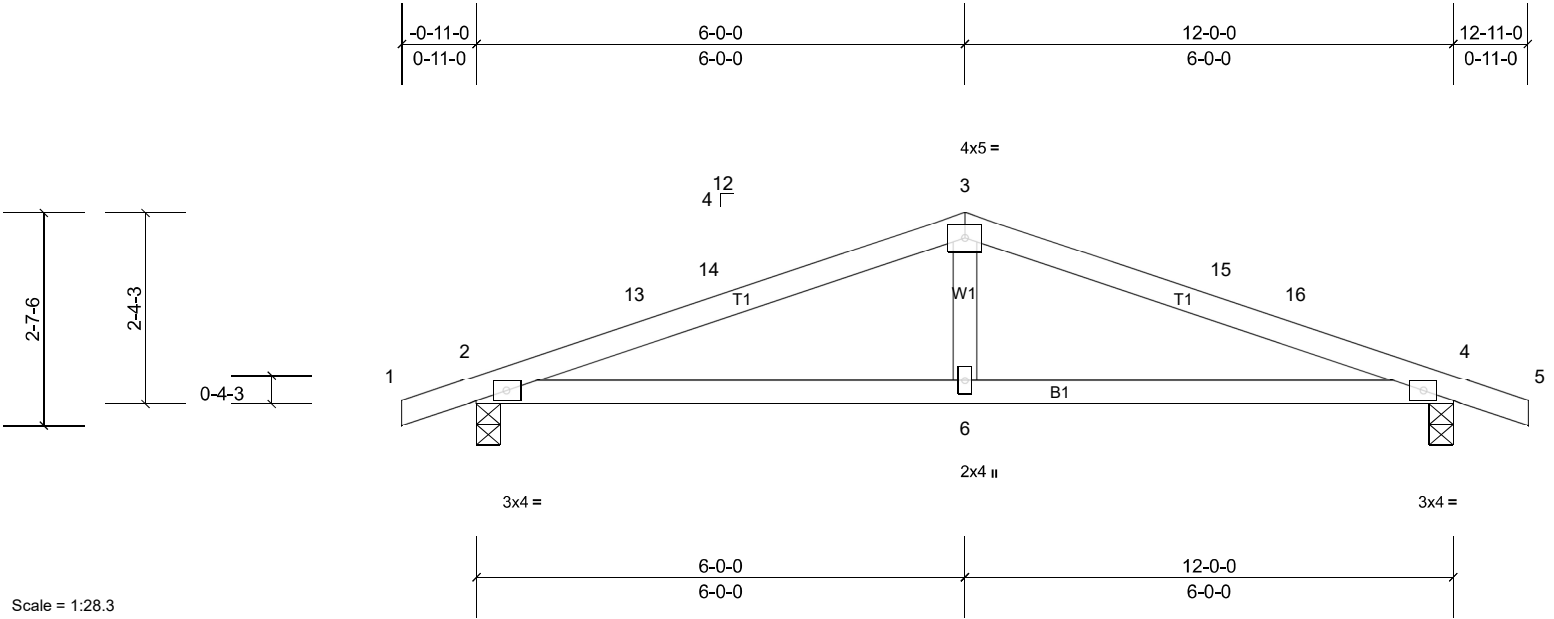
Job Q2300665	Truss E02	Truss Type Common	Qty 5	Ply 1	Value Build Homes - Dickens 02-23-103 Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.04	6-9	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.09	6-9	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	4	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.06	6-12	>999	240	Weight: 42 lb FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

BRACING
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

LOAD CASE(S) Standard

REACTIONS (lb/size) 2=535/0-3-8, (min. 0-1-8),
 4=535/0-3-8, (min. 0-1-8)
 Max Horiz 2=-21 (LC 10)
 Max Uplift 2=-128 (LC 12), 4=-128 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-13=-888/565, 13-14=-856/565,
 3-14=-855/580, 3-15=-855/580,
 15-16=-856/565, 4-16=-888/565
 BOT CHORD 2-6=-497/812, 4-6=-497/812
 WEBS 3-6=-213/265

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 6-0-0, Exterior (2) 6-0-0 to 9-0-0, Interior (1) 9-0-0 to 12-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 2 and 128 lb uplift at joint 4.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

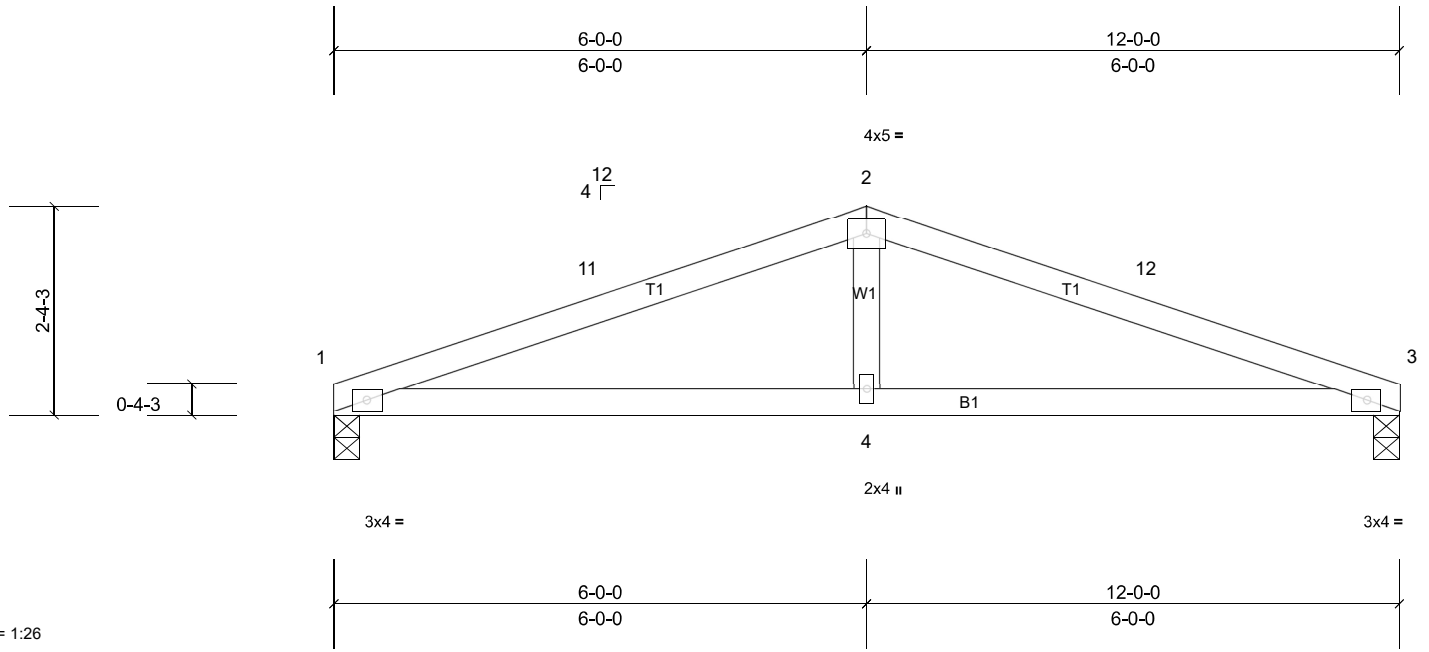
Job Q2300665	Truss E03	Truss Type Common	Qty 1	Ply 1	Value Build Homes - Dickens 02-23-103 Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.05	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.09	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS		Wind(LL)	0.06	4-7	>999	240	Weight: 40 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

BRACING
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

LOAD CASE(S) Standard

REACTIONS (lb/size) 1=480/0-3-8, (min. 0-1-8),
 3=480/0-3-8, (min. 0-1-8)
 Max Horiz 1=18 (LC 11)
 Max Uplift 1=-105 (LC 12), 3=-105 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-11=-905/585, 2-11=-872/599,
 2-12=-872/599, 3-12=-905/585
 BOT CHORD 1-4=-524/829, 3-4=-524/829
 WEBS 2-4=-218/267

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-0-0, Exterior (2) 6-0-0 to 9-0-0, Interior (1) 9-0-0 to 12-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 1 and 105 lb uplift at joint 3.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

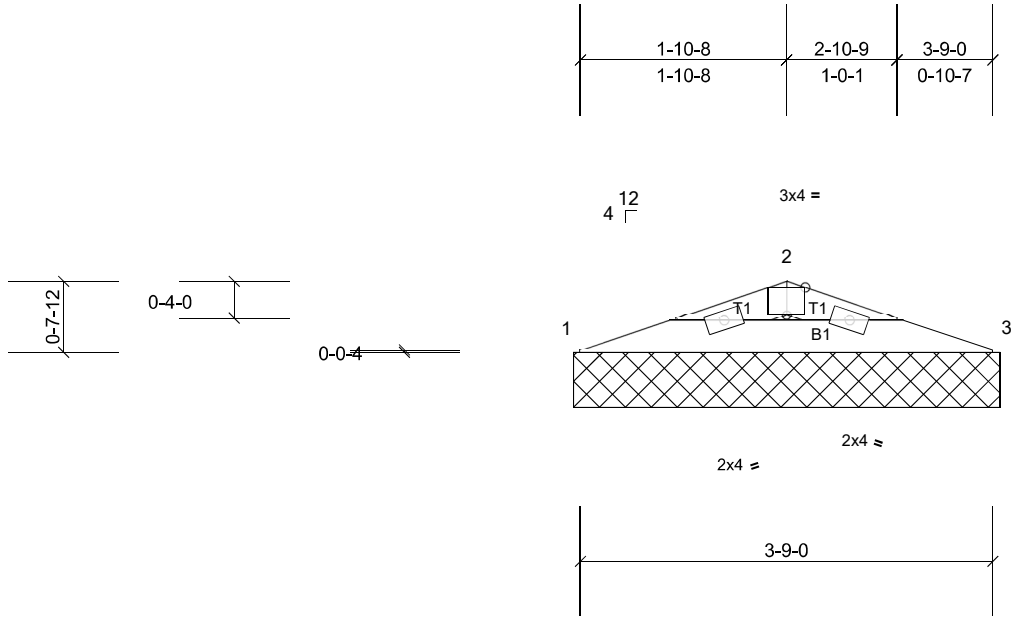
Job Q2300665	Truss V01	Truss Type Valley	Qty 3	Ply 1	Value Build Homes - Dickens 02-23-103 Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:21

Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 9 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins.

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

REACTIONS (lb/size) 1=155/3-10-8, (min. 0-1-8),

3=155/3-10-8, (min. 0-1-8)

Max Horiz 1=4 (LC 11)

Max Uplift 1=-1 (LC 12), 3=-1 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 1-2=-353/108, 2-3=-353/108

BOT CHORD 1-3=-90/369

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1 and 1 lb uplift at joint 3.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job Q2300665	Truss V02	Truss Type Valley	Qty 3	Ply 1	Value Build Homes - Dickens 02-23-103 Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

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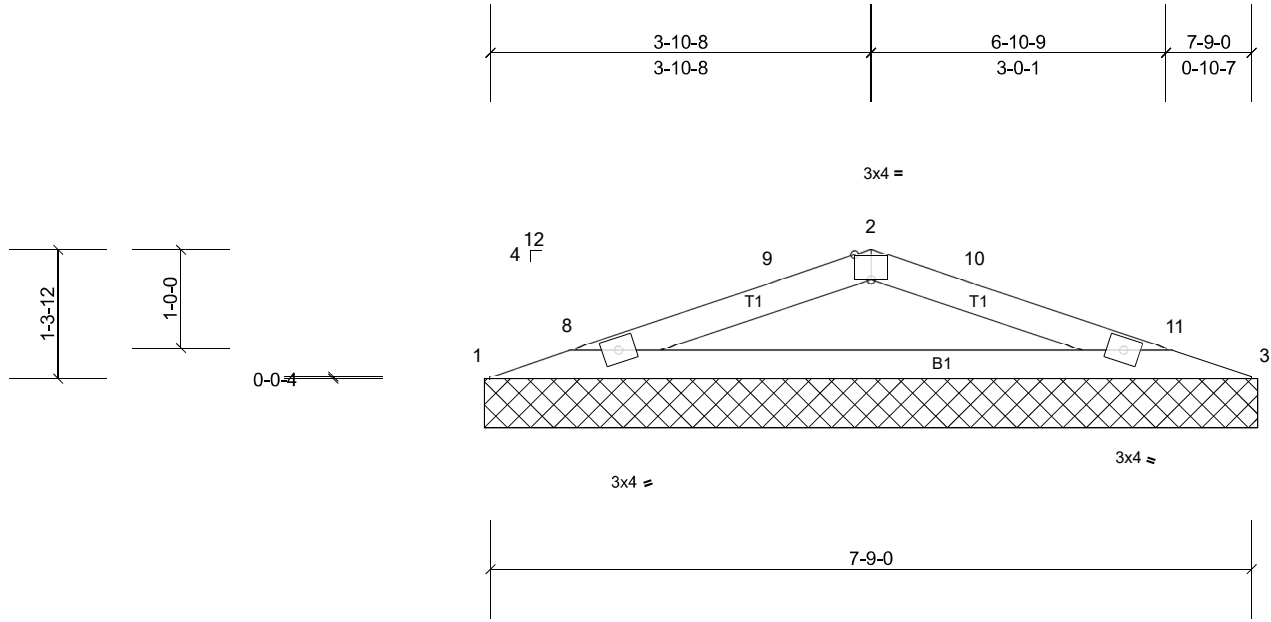


Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.03	3	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							
										Weight: 21 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 1=315/7-10-8, (min. 0-1-8),
3=315/7-10-8, (min. 0-1-8)
Max Horiz 1=10 (LC 11)
Max Uplift 1=-2 (LC 12), 3=-2 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-821/413, 1-8=-800/415, 1-9=-537/285,
2-9=-514/292, 2-10=-514/292,
3-10=-537/286, 3-11=-800/415,
3-11=-821/413
BOT CHORD 1-3=-378/771

NOTES

- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
 - 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S)** Standard

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-0-0 to 3-0-0, Exterior (2) 3-0-0 to 3-11-4, Corner (3) 3-11-4 to 6-11-4, Exterior (2) 6-11-4 to 7-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1 and 2 lb uplift at joint 3.

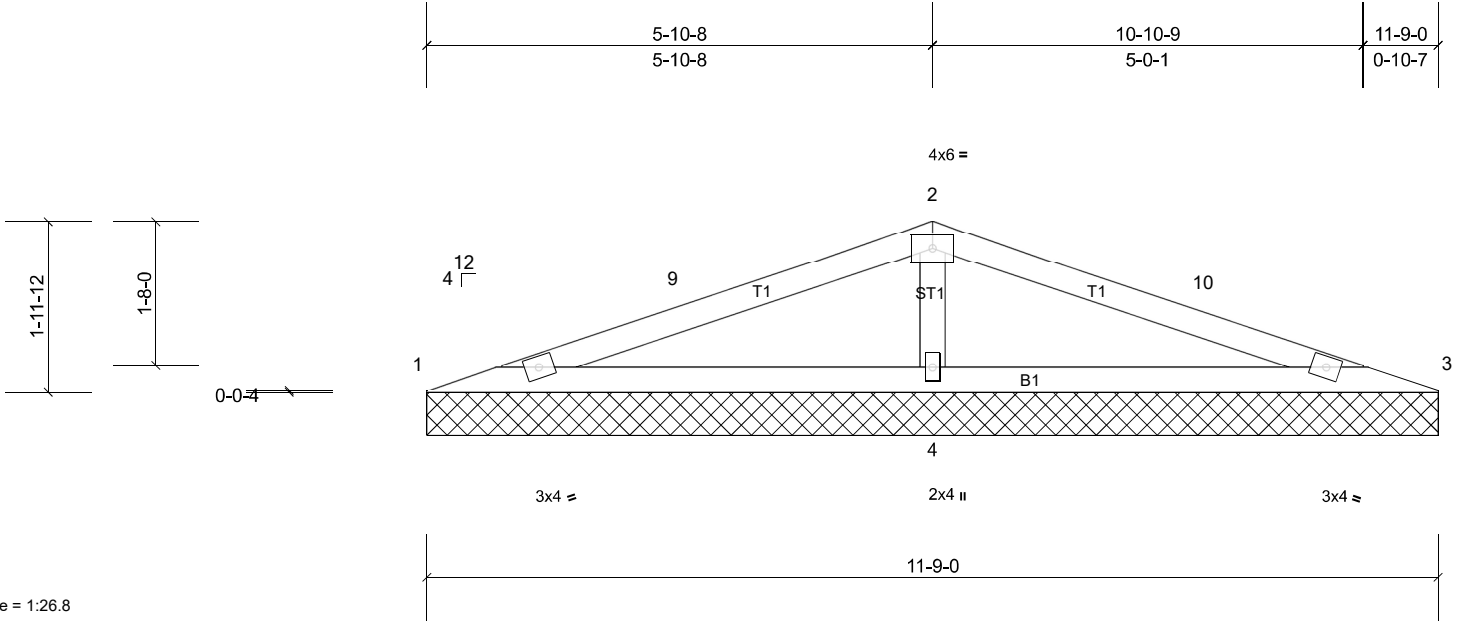
Job Q2300665	Truss V03	Truss Type Valley	Qty 1	Ply 1	Value Build Homes - Dickens 02-23-103 Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:26.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 35 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

LOAD CASE(S) Standard

REACTIONS (lb/size) 1=81/11-9-0, (min. 0-1-8),
3=81/11-9-0, (min. 0-1-8),
4=778/11-9-0, (min. 0-1-8)
Max Horiz 1=-16 (LC 10)
Max Uplift 3=-1 (LC 9), 4=-7 (LC 12)
Max Grav 1=120 (LC 21), 3=120 (LC 22),
4=778 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-195/408, 2-9=-50/463, 2-10=-51/463,
3-10=-59/406
BOT CHORD 1-4=-390/178, 3-4=-390/83
WEBS 2-4=-588/130

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust)
Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 5-11-4, Exterior (2) 5-11-4 to 8-11-4, Interior (1) 8-11-4 to 11-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 3 and 7 lb uplift at joint 4.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

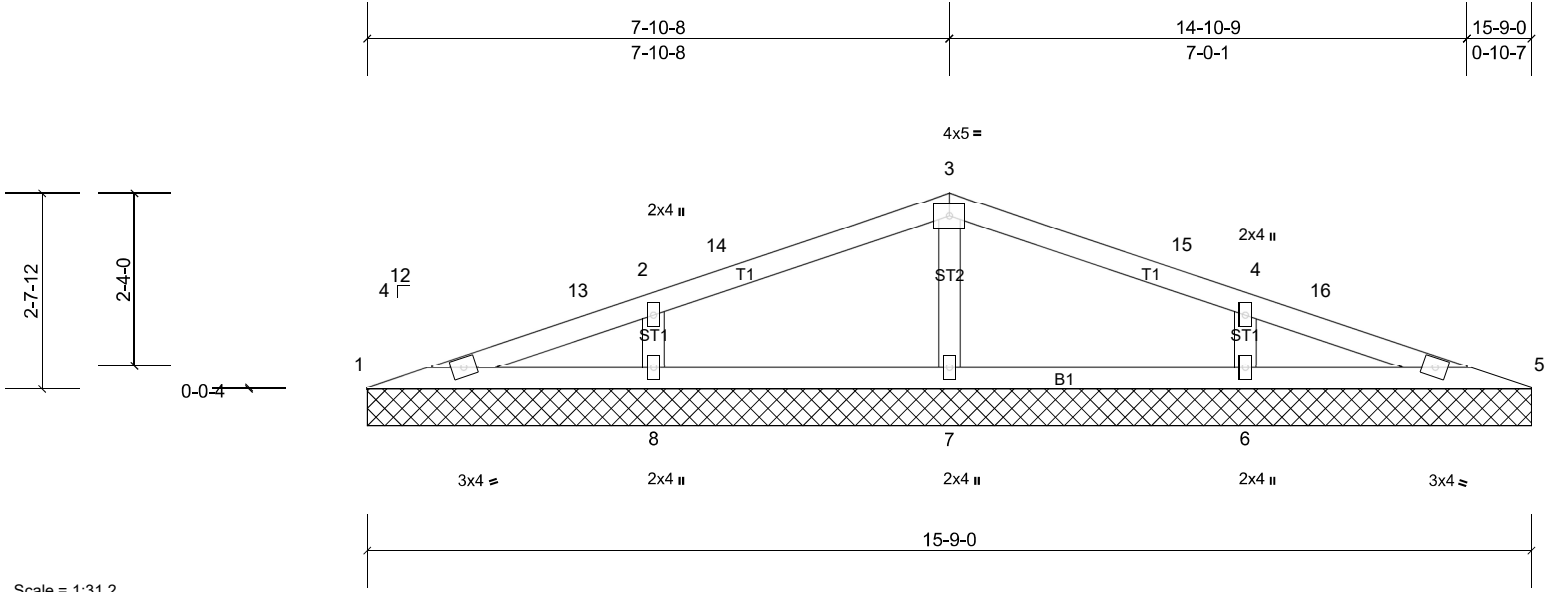
Job Q2300665	Truss V04	Truss Type Valley	Qty 1	Ply 1	Value Build Homes - Dickens 02-23-103 Job Reference (optional)
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Scale = 1:31.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 51 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

LOAD CASE(S) Standard

REACTIONS All bearings 15-9-0.
(lb) - Max Horiz 1=-22 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 6, 8
Max Grav All reactions 250 (lb) or less at joint (s) 1, 5 except 6=362 (LC 22), 7=348 (LC 1), 8=362 (LC 21)

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

WEBS 3-7=-277/58, 2-8=-260/81, 4-6=-260/81

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 7-11-4, Exterior (2) 7-11-4 to 10-11-4, Interior (1) 10-11-4 to 15-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 8, 6.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

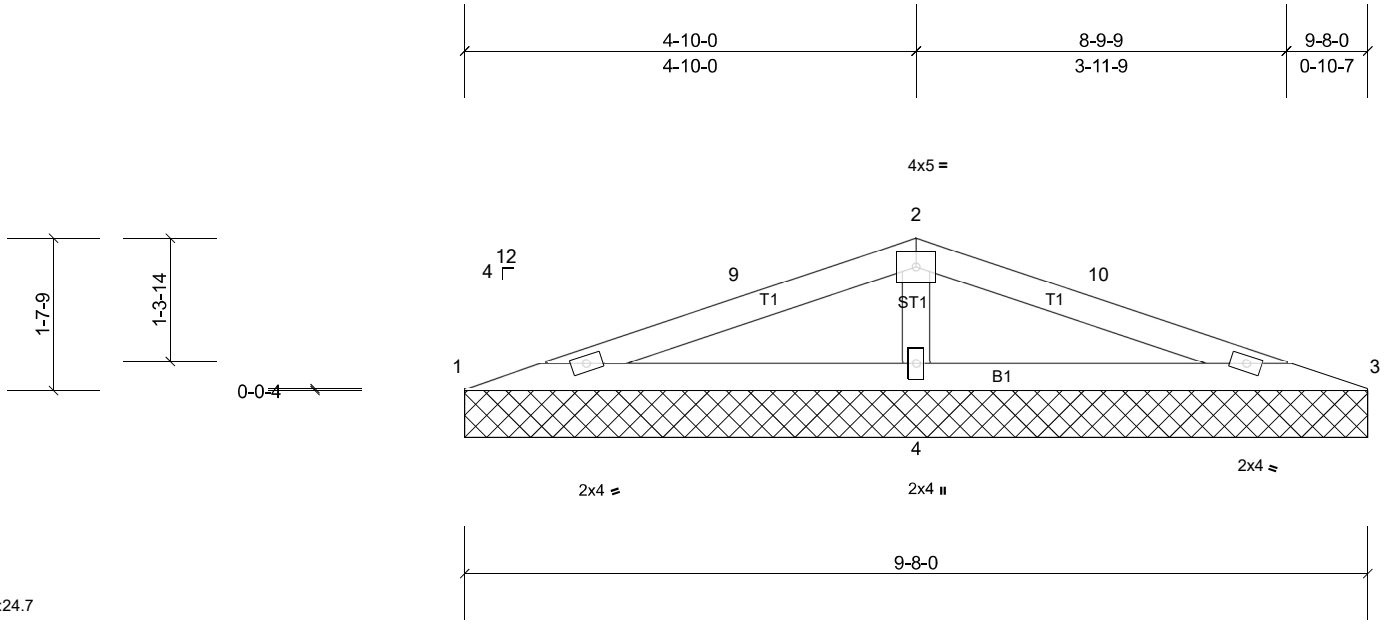
Job Q2300665	Truss V05	Truss Type Valley	Qty 1	Ply 1	Value Build Homes - Dickens 02-23-103 Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:24.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 28 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size)
1=84/9-8-0, (min. 0-1-8),
3=84/9-8-0, (min. 0-1-8),
4=606/9-8-0, (min. 0-1-8)
Max Horiz 1=-13 (LC 10)
Max Uplift 1=-1 (LC 12), 3=-1 (LC 12), 4=-4 (LC 12)
Max Grav 1=111 (LC 21), 3=111 (LC 22), 4=606 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-174/286, 2-9=-49/327, 2-10=-47/327, 3-10=-53/286
BOT CHORD 1-4=-271/158, 3-4=-271/77
WEBS 2-4=-441/117

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 4-10-12, Exterior (2) 4-10-12 to 7-11-15, Interior (1) 7-11-15 to 9-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1, 1 lb uplift at joint 3 and 4 lb uplift at joint 4.

- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S)** Standard

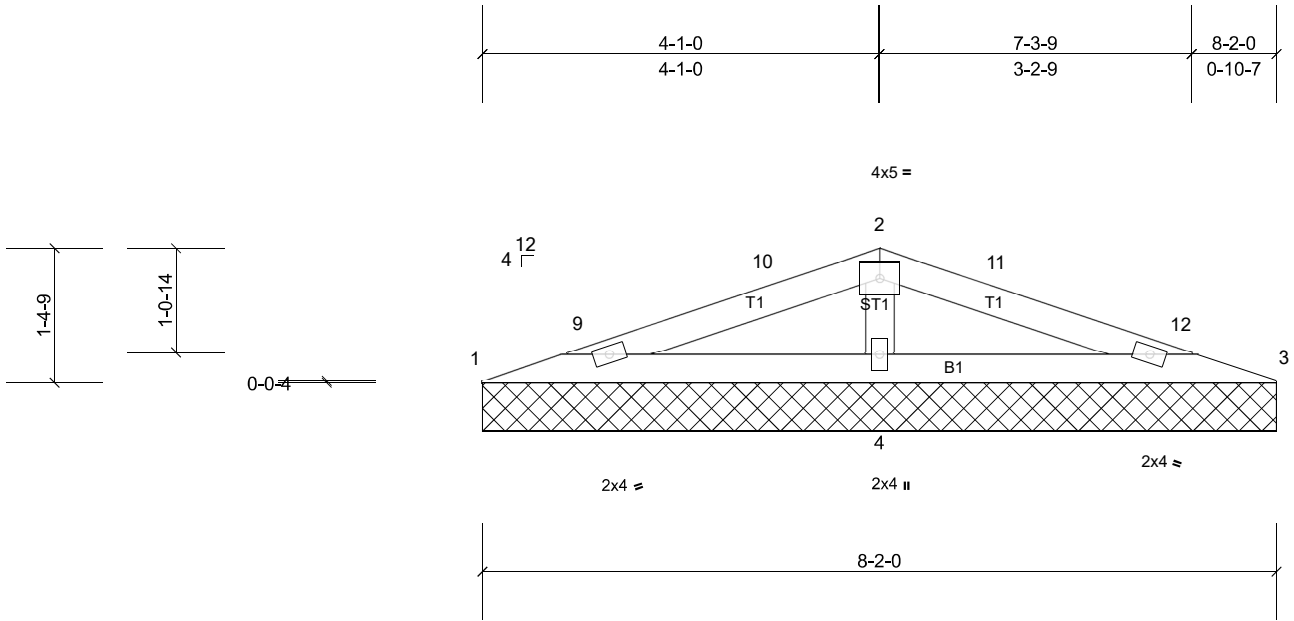
Job Q2300665	Truss V06	Truss Type Valley	Qty 1	Ply 1	Value Build Homes - Dickens 02-23-103 Job Reference (optional)
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Carolina Structural Systems, Star, NC 27356, JSH

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Scale = 1:23.7

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 23 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size)
 1=76/8-2-0, (min. 0-1-8),
 3=76/8-2-0, (min. 0-1-8),
 4=480/8-2-0, (min. 0-1-8)
 Max Horiz 1=11 (LC 11)
 Max Uplift 1=-1 (LC 12), 3=-1 (LC 12), 4=-3 (LC 12)
 Max Grav 1=97 (LC 21), 3=97 (LC 22), 4=480 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-10=-60/252, 2-10=-55/272, 2-11=-54/272, 3-11=-59/252
 WEBS 2-4=-309/91

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 4-1-12, Exterior (2) 4-1-12 to 7-1-12, Interior (1) 7-1-12 to 8-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1, 1 lb uplift at joint 3 and 3 lb uplift at joint 4.

- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S)** Standard