

Job 71006143	Truss A1	Truss Type Truss	Qty 2	Ply 1	QUAIL GLEN PAVILION-RF. Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton

Run: 8.5 S 8.41 Jul 24 2020 Print: 8.410 S Jul 24 2020 MiTek Industries, Inc. Mon Feb 15 08:50:42

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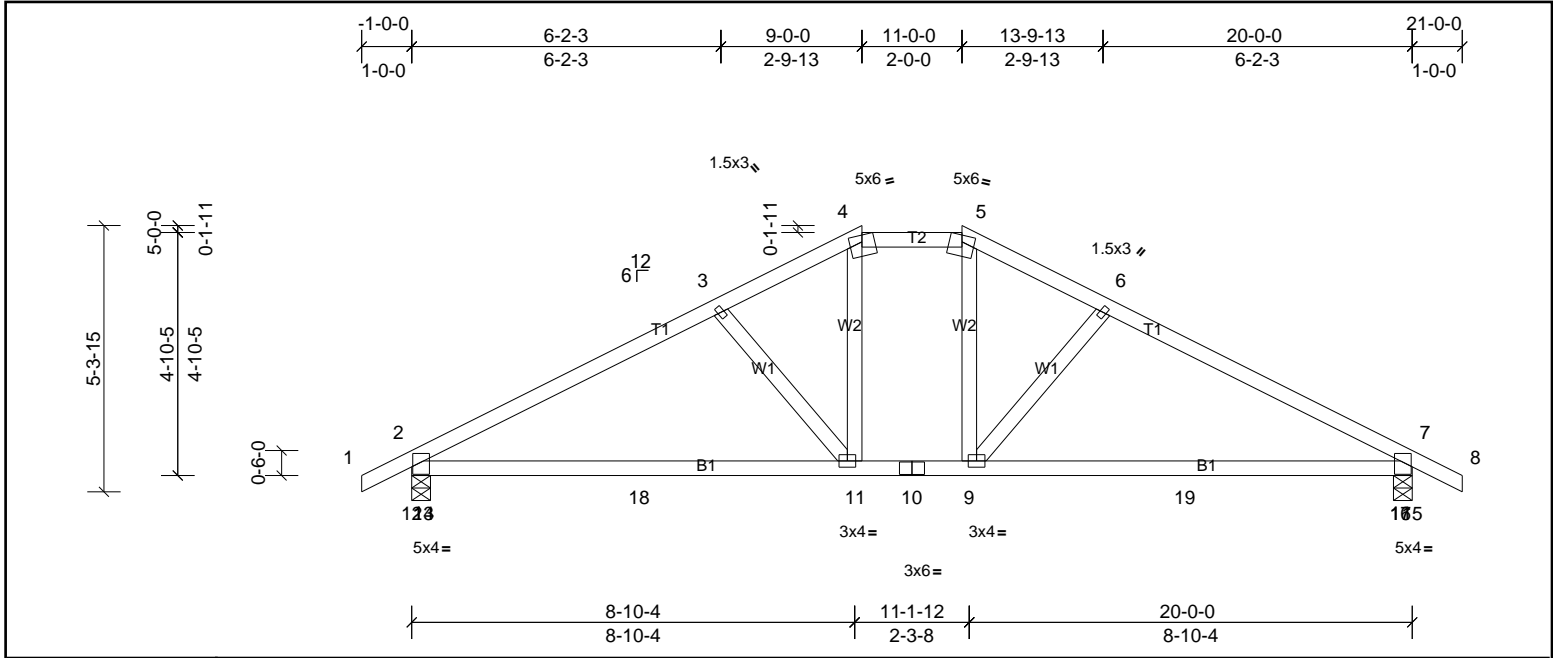


Plate Offsets (X, Y): [2:0-1-3,0-2-8], [7:0-1-3,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.37	9-17	>656	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.50	9-17	>482	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MSH							Weight: 91 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-7-10 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS	(lb/size)	2=860/0-4-8, (min. 0-1-8), 7=860/0-4-8, (min. 0-1-8)
	Max Horiz	2=158 (LC 10)
	Max Uplift	2=440 (LC 10), 7=440 (LC 11)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-13=-546/0, 3-13=-1263/924, 3-4=-1037/838, 4-5=-873/775, 5-6=-1037/838, 6-16=-1263/924, 7-16=-546/0
BOT CHORD	12-14=-325/265, 14-18=-614/1062, 11-18=-614/1062, 10-11=-347/873, 9-10=-347/873, 9-19=-614/1062, 17-19=-614/1062, 15-17=-248/265
WEBS	3-11=-310/399, 4-11=-245/432, 5-9=-245/432, 6-9=-310/399, 2-12=-480/247, 13-14=-161/618, 12-13=-421/294, 7-15=-480/247, 16-17=-161/618, 15-16=-421/294

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone 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
  - Provide adequate drainage to prevent water ponding.
  - 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, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 440 lb uplift at joint 2 and 440 lb uplift at joint 7.
  - This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
  - This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Bottom Chord, nonconcurrent with any other live loads.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



This design is based 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 the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



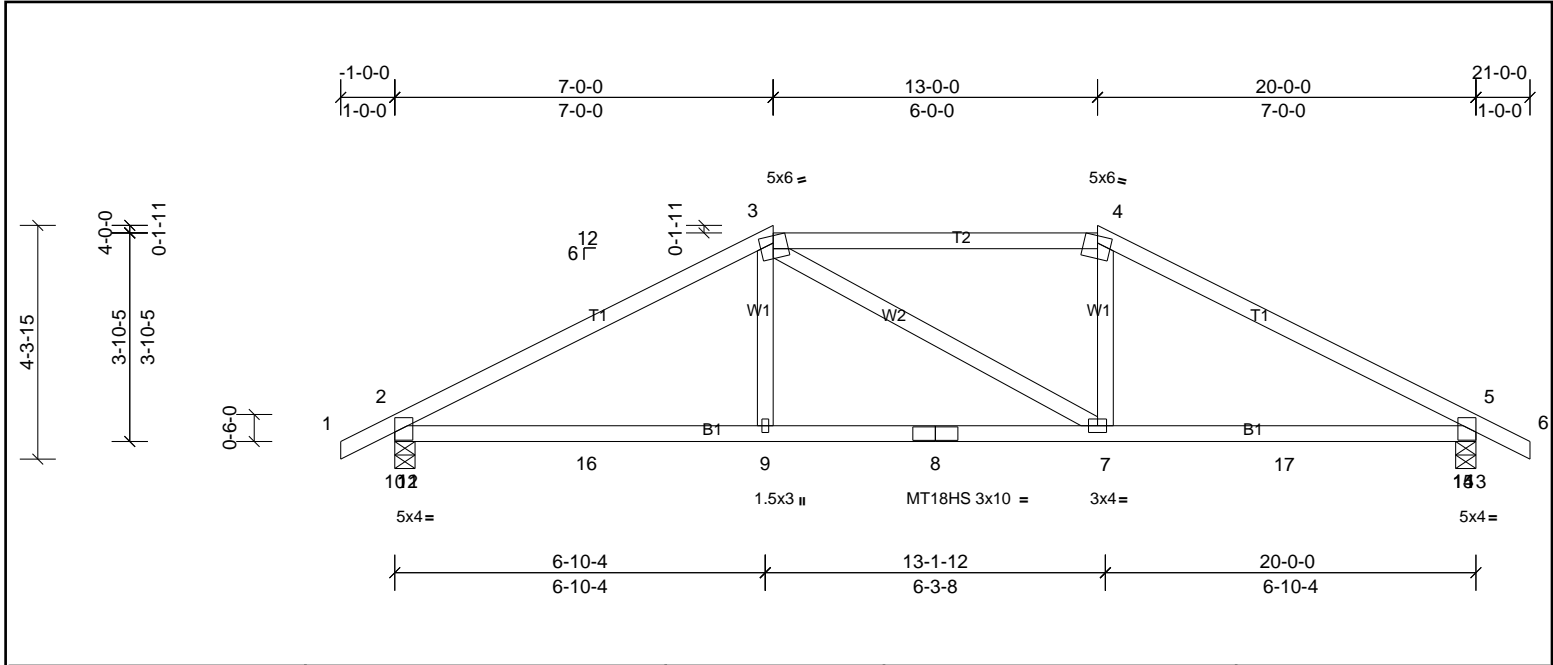
Job 71006143	Truss A2	Truss Type Truss	Qty 2	Ply 1	QUAIL GLEN PAVILION-RF. Job Reference (optional)
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Job 71006143	Truss A3	Truss Type Truss	Qty 2	Ply 1	QUAIL GLEN PAVILION-RF. Job Reference (optional)
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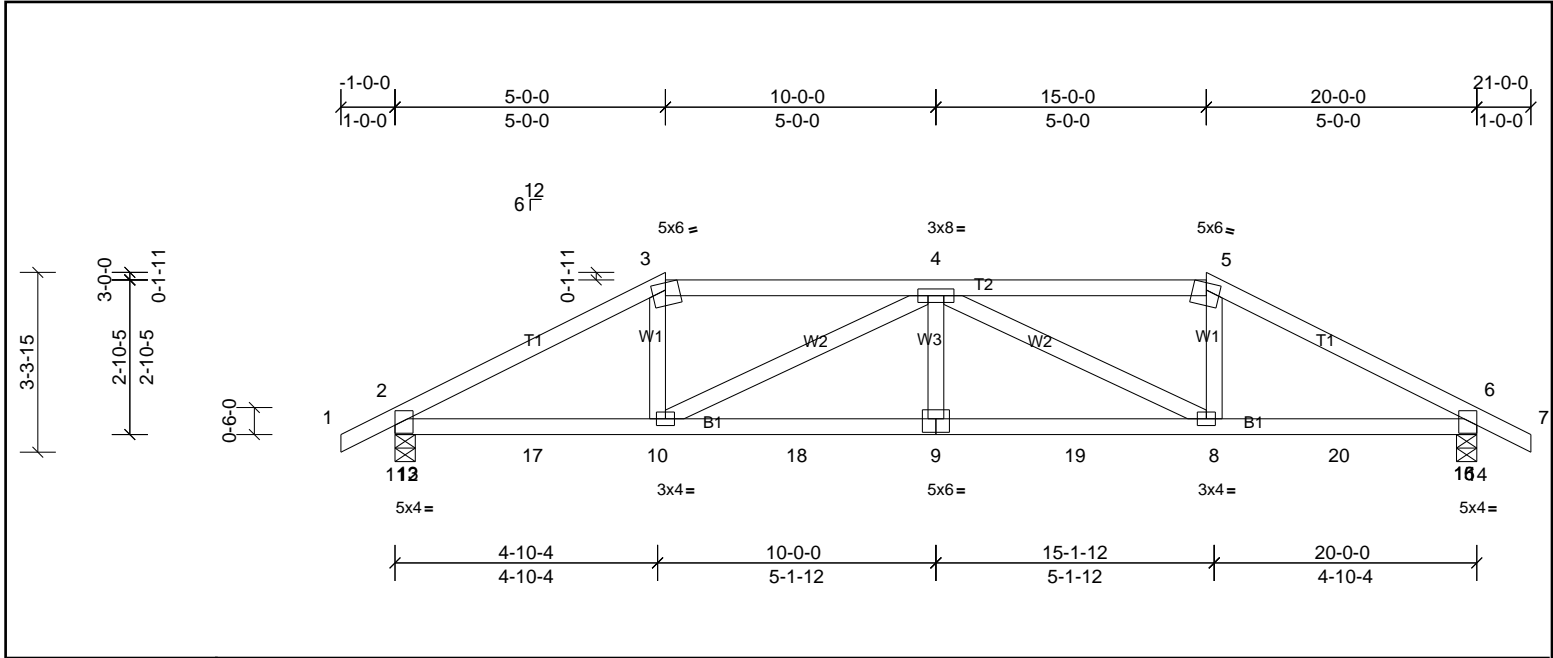


Plate Offsets (X, Y): [9:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.12	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.19	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MSH							Weight: 91 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-9-8 oc purlins, except 2-0-0 oc purlins (5-1-15 max.): 3-5.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-2-11 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS	(lb/size)	2=860/0-4-8, (min. 0-1-8), 6=860/0-4-8, (min. 0-1-8)
Max Horiz	2=94 (LC 14)	
Max Uplift	2=-368 (LC 10), 6=-368 (LC 11)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-12=-371/95, 3-12=-1366/888, 3-4=-1149/866, 4-5=-1149/866, 5-15=-1366/888, 6-15=-371/95
BOT CHORD	11-13=-214/295, 13-17=-609/1165, 10-17=-609/1165, 10-18=-902/1614, 9-18=-902/1614, 9-19=-902/1614, 8-19=-902/1614, 8-20=-609/1165, 16-20=-609/1165, 14-16=-180/295
WEBS	3-10=-99/391, 4-10=-591/398, 4-8=-591/397, 5-8=-99/391, 4-9=0/358, 2-11=-387/308, 12-13=-244/415, 11-12=-437/295, 2-13=-131/277, 6-14=-387/308, 15-16=-244/415, 14-15=-437/295, 6-16=-131/277

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone 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
  - Provide adequate drainage to prevent water ponding.
  - 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 368 lb uplift at joint 2 and 368 lb uplift at joint 6.
  - This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
  - This truss has been designed for a moving concentrated load of 250.0lb live load located at all mid panels and at all panel points along the Bottom Chord, nonconcurrent with any other live loads.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job 71006143	Truss A3L	Truss Type Truss	Qty 2	Ply 1	QUAIL GLEN PAVILION-RF. Job Reference (optional)
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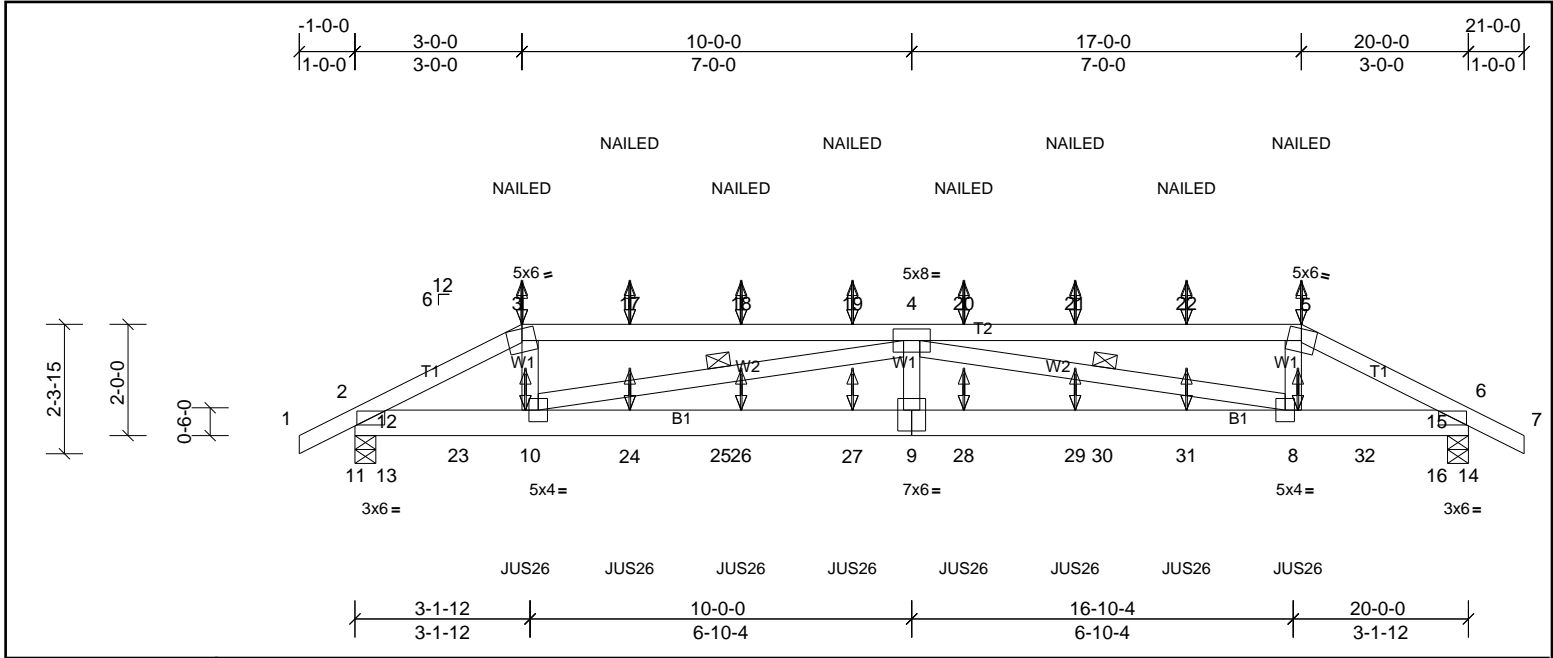


Plate Offsets (X, Y): [9:0-3:0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	0.29	9	>818	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.27	9	>879	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.45	Horz(CT)	-0.05	6	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MSH							Weight: 107 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-15 oc purlins, except 2-0-0 oc purlins (3-4-7 max.): 3-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 4-9-11 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-10, 4-8

REACTIONS	(lb/size)
	2=970/0-4-8, (min. 0-1-8), 6=969/0-4-8, (min. 0-1-8)
	Max Horiz 2=65 (LC 8)
	Max Uplift 2=640 (LC 5), 6=638 (LC 4)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-12=-622/460, 3-12=-1753/1275, 3-17=-1589/1199, 17-18=-1589/1199, 18-19=-1589/1199, 4-19=-1589/1199, 4-20=-1587/1195, 20-21=-1587/1195, 21-22=-1587/1195, 5-22=-1587/1195, 5-15=-1751/1271, 6-15=-621/459
BOT CHORD	11-13=-431/580, 13-23=-1122/1547, 10-23=-1122/1547, 10-24=-2281/3002, 24-25=-2281/3002, 25-26=-2281/3002, 26-27=-2281/3002, 9-27=-2281/3002, 9-28=-2281/3002, 28-29=-2281/3002, 29-30=-2281/3002, 30-31=-2281/3002, 8-31=-2281/3002, 8-32=-1089/1545, 16-32=-1089/1545, 14-16=-411/579
WEBS	3-10=-225/527, 5-8=-226/528, 4-10=-1479/1222, 4-9=0/376, 4-8=-1481/1225, 2-11=-529/355, 11-12=-596/428, 2-13=-278/392, 6-14=-529/353, 14-15=-596/429, 6-16=-268/391

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - 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 640 lb uplift at joint 2 and 638 lb uplift at joint 6.
  - This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
  - This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Bottom Chord, nonconcurrent with any other live loads.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Use USP JUS26 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-0-12 from the left end to 16-11-4 to connect truss(es) to front face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
  - "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)	Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (lb/ft)	
	Vert: 1-3=-60, 3-5=-60, 5-7=-60, 11-14=-20
Concentrated Loads (lb)	
	Vert: 3=-14 (F), 5=-14 (F), 10=-14 (F), 8=-14 (F), 17=-14 (F), 18=-14 (F), 19=-14 (F), 20=-14 (F), 21=-14 (F), 22=-14 (F), 24=-14 (F), 26=-14 (F), 27=-14 (F), 28=-14 (F), 29=-14 (F), 31=-14 (F)



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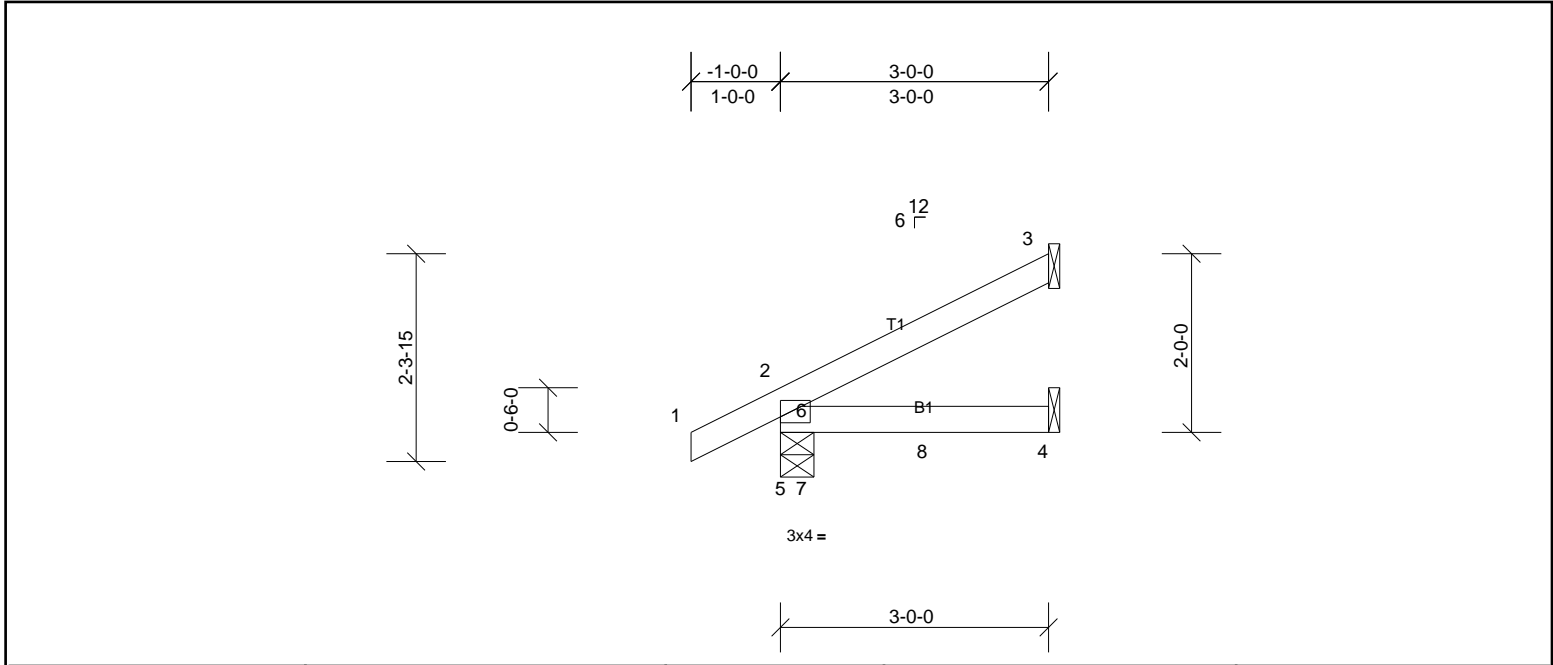
Job 71006143	Truss J1	Truss Type Truss	Qty 16	Ply 1	QUAIL GLEN PAVILION-RF. Job Reference (optional)
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.02	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.03	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 11 lb	FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
<b>REACTIONS</b>	
(lb/size) 2=188/0-4-8, (min. 0-1-8), 3=74/ Mechanical, (min. 0-1-8), 4=34/ Mechanical, (min. 0-1-8)	
Max Horiz 2=141 (LC 10)	
Max Uplift 2=-100 (LC 10), 3=-96 (LC 10), 4=-2 (LC 10)	
Max Grav 2=332 (LC 21), 3=74 (LC 1), 4=278 (LC 25)	

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

- NOTES**
- 1) Wind: ASCE 7-10; Vult=155mph (3-second gust) Vasd=123mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone 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
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 3, 100 lb uplift at joint 2 and 2 lb uplift at joint 4.
  - 5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
  - 6) This truss has been designed for a moving concentrated load of 250.0lb live located at all mid panels and at all panel points along the Bottom Chord, nonconcurrent with any other live loads.



This design is based 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 the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

