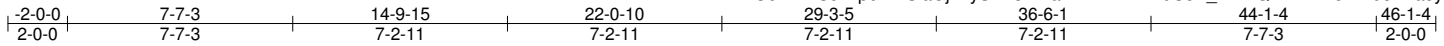


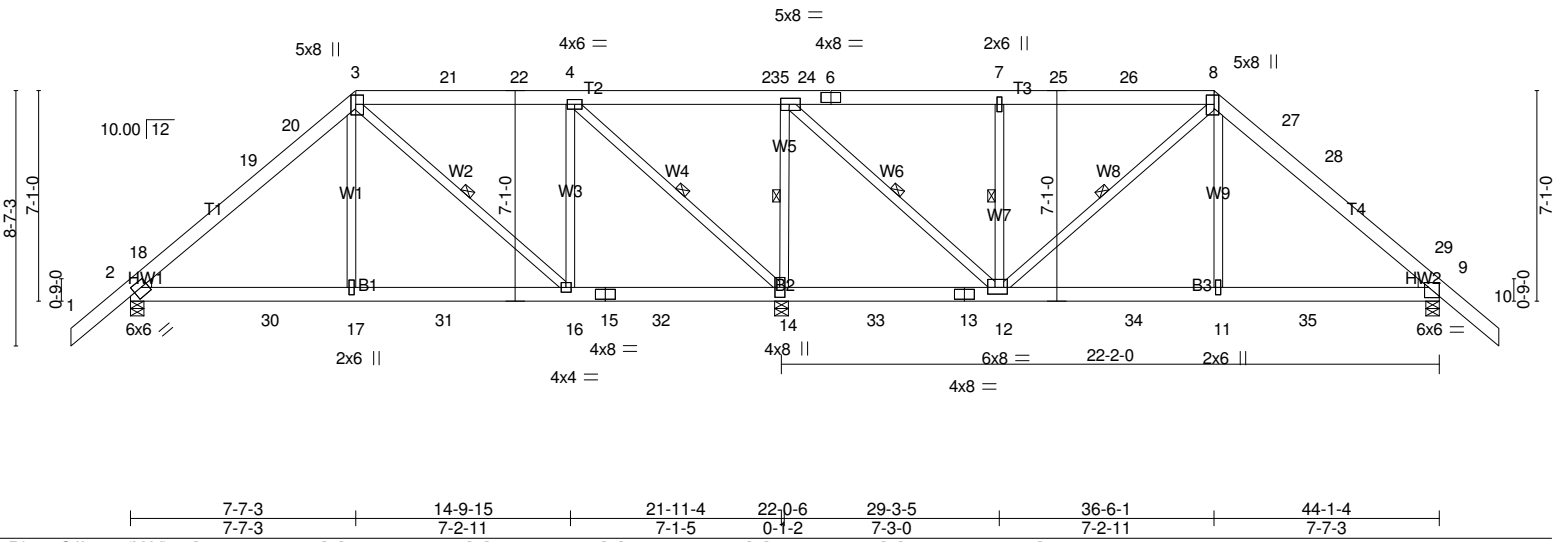
Job 682091	Truss 001	Truss Type PIGGYBACK TRUSS	Qty 27	Ply 1	Rufus Deering/ 428 Forest Ave 0 0 E137787_10/21/2016 2:48:41 PM Job Reference (optional)
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Boise Cascade, Biddeford, ME 04005, Chris Falton

Run: 7.640 s Feb 22 2016 Print: 7.640 s Feb 22 2016 MiTek Industries, Inc. Fri Oct 21 14:59:50 2016 Page 1  
ID:700DI4DCuzLpbMwUiaGjYxySFB3-4VaPPfBBXPdW9CoV\_inNwQLzBEhAo44v9oTEaoyRAFN



Scale = 1:77.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 60.0 (Roof Snow=60.0)	2-0-0 Plate Grip DOL 1.15	TC 0.78	in (loc) l/defl L/d	MT20	169/123
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(LL) -0.11 11-12 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.94	Vert(TL) -0.14 11-12 >999 180		
BCDL 10.0	Code IBC2009/TPI2007	(Matrix)	Horz(TL) 0.05 9 n/a n/a		
				Weight: 277 lb	FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF 1650F 1.5E *Except* T2,T3: 2x6 SP M 23	TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-8.
BOT CHORD 2x6 SP M 23 *Except* B1: 2x6 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-14.
WEBS 2x4 SPF-S No.2 *Except* W4: 2x4 SPF 1650F 1.5E	WEBS 1 Row at midpt 3-16, 4-14, 5-14, 5-12, 7-12, 8-12
WEDGE Left: 2x4 SPF-S No.2, Right: 2x4 SPF-S No.2	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=1973/0-5-8 (min. 0-3-15), 14=3658/0-5-8 (min. 0-4-9), 9=1977/0-5-8 (min. 0-2-1)  
Max Horz 2=407(LC 8)  
Max Uplift 2=677(LC 9), 14=-1456(LC 8), 9=-705(LC 10)  
Max Grav 2=2503(LC 22), 14=5487(LC 21), 9=2506(LC 22)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=0/296, 2-18=-2132/503, 18-19=-1997/530, 19-20=-1957/532, 3-20=-1872/556,  
3-21=-1663/598, 21-22=-1659/598, 4-22=-1655/598, 4-23=-72/337, 5-23=-72/337,  
5-24=-1653/626, 6-24=-1653/626, 6-7=-1653/626, 7-25=-1649/625, 25-26=-1653/625,  
8-26=-1657/625, 8-27=-1886/613, 27-28=-1970/589, 28-29=-2012/585, 9-29=-2141/560,  
9-10=0/296  
BOT CHORD 2-30=-542/1489, 17-30=-542/1489, 17-31=-543/1485, 16-31=-543/1485, 15-16=-509/1659,  
15-32=-509/1659, 14-32=-509/1659, 14-33=-324/378, 13-33=-324/378, 12-13=-324/378,  
12-34=-215/1496, 11-34=-215/1496, 11-35=-212/1500, 9-35=-212/1500  
WEBS 3-17=0/373, 3-16=-487/236, 4-16=-66/476, 4-14=-2713/794, 5-14=-3425/1054,  
5-12=-706/2683, 7-12=-1879/648, 8-12=-493/213, 8-11=0/382

- NOTES-** (13-14)
- 1) Wind: ASCE 7-05; 120mph; TC DL=6.0psf; BC DL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-7-3, Exterior(2) 4-7-3 to 7-7-3, Interior(1) 10-7-3 to 33-6-1, Exterior(2) 36-6-1 to 46-1-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-05; Pf=60.0 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 14.0 psf or 1.00 times flat roof load of 60.0 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - 6) Provide adequate drainage to prevent water ponding.
  - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 677 lb uplift at joint 2, 1456 lb uplift at joint 14 and 705 lb uplift at joint 9.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Rufus Deering/ 428 Forest Ave
682091	001	PIGGYBACK TRUSS	27	1	0_0_E137787_10/21/2016 2:48:41 PM Job Reference (optional)

Boise Cascade, Biddeford, ME 04005, Chris Falton

Run: 7.640 s Feb 22 2016 Print: 7.640 s Feb 22 2016 MiTek Industries, Inc. Fri Oct 21 14:59:50 2016 Page 2  
ID:7O0DI4DCuzLpbMwUiaGjYxySFB3-4VaPPfBBXPdW9CoV\_inNwQLzBEhAo44v9oTEacyRAFN

**NOTES-** (13-14)

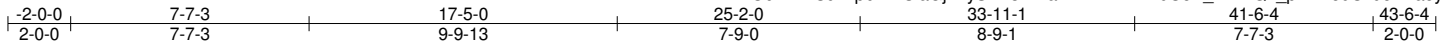
- 10) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Dimensions are in feet-inches-sixteenths
- 14) Drawing prepared exclusively for manufacturing by Boise Cascade.

**LOAD CASE(S)** Standard

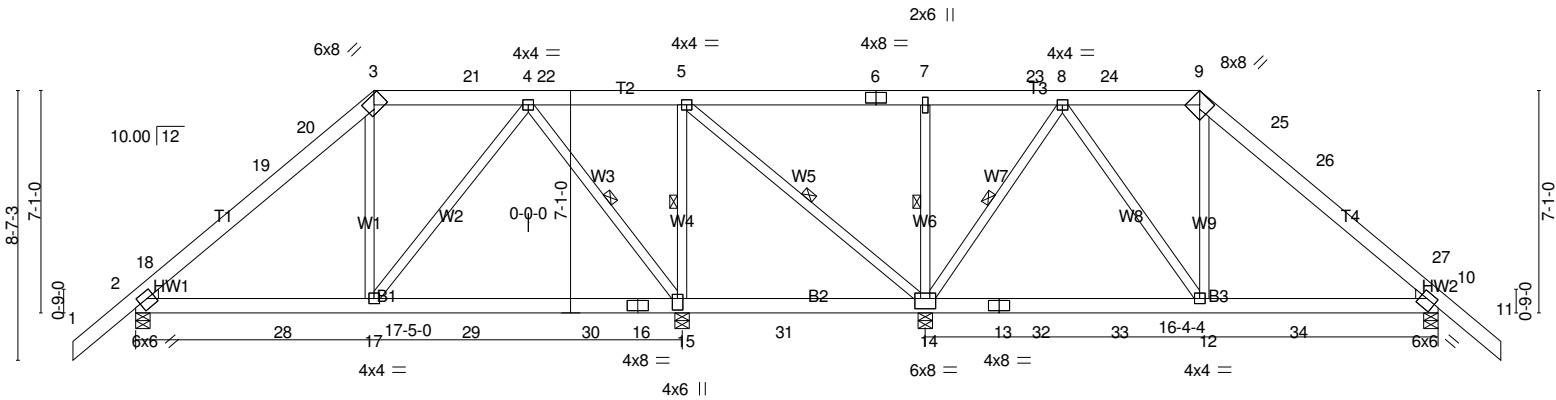
Job 682091	Truss 002	Truss Type PIGGYBACK TRUSS	Qty 14	Ply 1	Rufus Deering/ 428 Forest Ave
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Boise Cascade, Biddeford, ME 04005, Chris Falton

Run: 7.640 s Feb 22 2016 Print: 7.640 s Feb 22 2016 MiTek Industries, Inc. Fri Oct 21 14:59:50 2016 Page 1  
ID:700D14DCuzLpbMwUiaGjYxySFB3-4VaPPfBBXPdW9CoV\_inNwQL\_pEhRo9Uv9oTEacyRAFm



Scale = 1:73.5



7-7-3	12-6-2	17-5-0	25-2-0	29-6-8	33-11-1	41-6-4
7-7-3	4-10-14	4-10-14	7-9-0	4-4-8	4-4-8	7-7-3

Plate Offsets (X,Y)-- [2:0-2-4,0-2-10], [3:0-3-9,0-3-3], [9:0-3-14,Edge], [10:0-2-0,0-2-6], [14:0-4-0,0-4-0], [15:0-4-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 60.0	2-0-0	TC 0.74	Vert(LL) -0.06	2-17	>999	240	MT20	169/123
(Roof Snow=60.0)	Plate Grip DOL 1.15	BC 0.33	Vert(TL) -0.13	15-17	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.60	Horz(TL) 0.03	10	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	(Matrix)						
BCDL 10.0	Code IBC2009/TPI2007						Weight: 246 lb	FT = 0%

**LUMBER-**  
**TOP CHORD** 2x6 SPF 1650F 1.5E \*Except\*  
T2,T3: 2x6 SP M 23  
**BOT CHORD** 2x6 SPF 1650F 1.5E  
**WEBS** 2x4 SPF-S No.2  
**WEDGE**  
Left: 2x4 SPF-S No.2, Right: 2x4 SPF-S No.2

**BRACING-**  
**TOP CHORD** Structural wood sheathing directly applied or 4-9-8 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-9.  
**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15.  
**WEBS** 1 Row at midpt 4-15, 5-15, 5-14, 7-14, 8-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 0-5-8.  
(lb) - Max Horz 2=407(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) except 2=-645(LC 9), 15=-753(LC 8), 14=-881(LC 7), 10=-634(LC 10)  
Max Grav All reactions 250 lb or less at joint(s) except 2=2315(LC 22), 15=2804(LC 21), 14=3265(LC 21), 10=2232(LC 22)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 1-2=0/296, 2-18=-1860/426, 18-19=-1314/454, 19-20=-1286/455, 3-20=-1234/479, 3-21=-981/554, 4-21=-976/554, 4-22=-37/393, 5-22=-37/393, 5-6=-64/306, 6-7=-64/306, 7-23=-64/306, 8-23=-64/306, 8-24=-822/486, 9-24=-824/486, 9-25=-863/387, 25-26=-1020/363, 26-27=-1092/361, 10-27=-1732/334, 10-11=0/296  
**BOT CHORD** 2-28=-403/979, 17-28=-403/979, 17-29=-351/906, 29-30=-351/906, 16-30=-351/906, 15-16=-351/906, 15-31=-55/259, 14-31=-55/259, 13-14=-95/513, 13-32=-95/513, 32-33=-95/513, 12-33=-95/513, 12-34=-24/814, 10-34=-24/814  
**WEBS** 3-17=-274/173, 4-17=-92/667, 4-15=-1489/497, 5-15=-1424/468, 5-14=-398/161, 7-14=-1639/557, 8-14=-1444/405, 8-12=-93/740, 9-12=-366/154

- NOTES-** (13-14)
- 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-7-3, Exterior(2) 4-7-3 to 7-7-3, Interior(1) 10-7-3 to 30-11-1, Exterior(2) 33-11-1 to 43-6-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-05; Pf=60.0 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 14.0 psf or 1.00 times flat roof load of 60.0 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - 6) Provide adequate drainage to prevent water ponding.
  - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 645 lb uplift at joint 2, 753 lb uplift at joint 15, 881 lb uplift at joint 14 and 634 lb uplift at joint 10.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Rufus Deering/ 428 Forest Ave
682091	002	PIGGYBACK TRUSS	14	1	Job Reference (optional)

Boise Cascade, Biddeford, ME 04005, Chris Falton

Run: 7.640 s Feb 22 2016 Print: 7.640 s Feb 22 2016 MiTek Industries, Inc. Fri Oct 21 14:59:50 2016 Page 2  
ID:7O0Dl4DCuzLpbMwUiaGjYxySFB3-4VaPPfBBXPdW9CoV\_inNwQL\_pEhRo9Uv9oTEaoyRAFN

**NOTES-** (13-14)

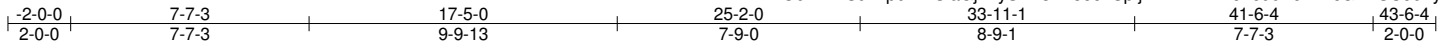
- 10) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Dimensions are in feet-inches-sixteenths
- 14) Drawing prepared exclusively for manufacturing by Boise Cascade.

**LOAD CASE(S)** Standard

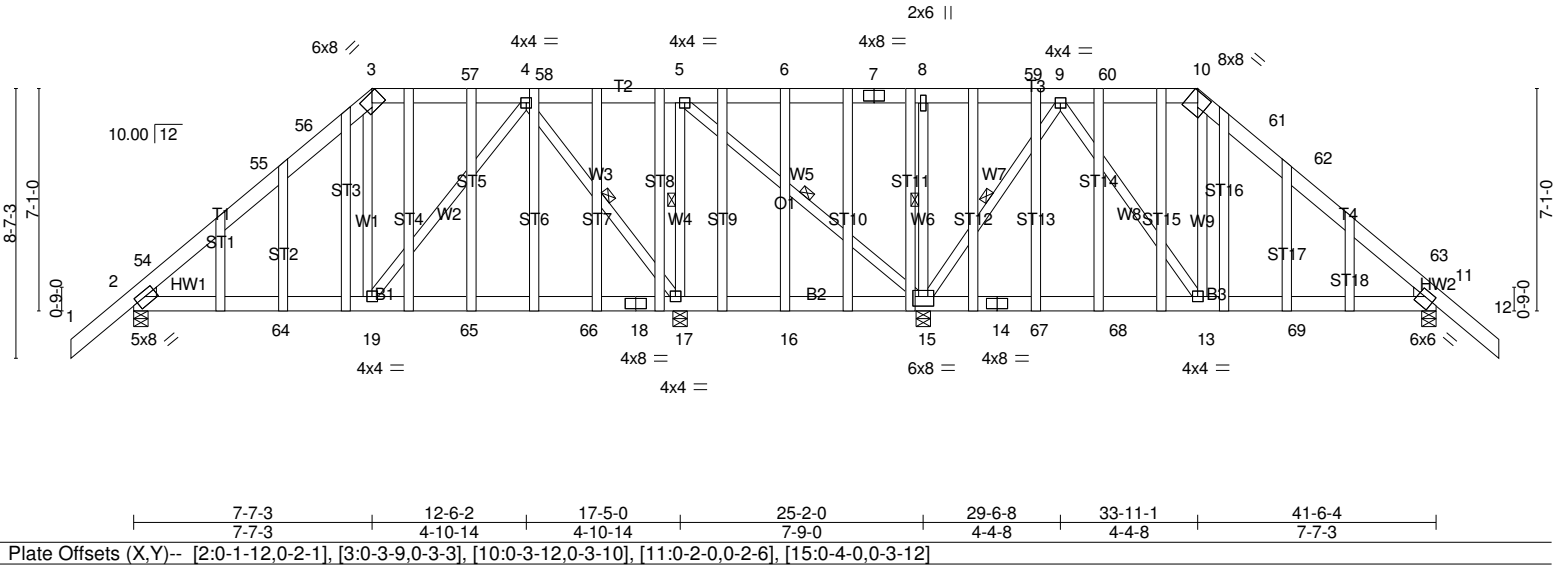
Job	Truss	Truss Type	Qty	Ply	Rufus Deering/ 428 Forest Ave
682091	003	GESTR	1	1	A_MGE_E137787_10/21/2016 2:48:39 PM
					Job Reference (optional)

Boise Cascade, Biddeford, ME 04005, Chris Falton

Run: 7.640 s Feb 22 2016 Print: 7.640 s Feb 22 2016 MiTek Industries, Inc. Fri Oct 21 14:59:51 2016 Page 1  
 ID:700D14DCuzLpbMwUiaGjYxySFB3-Yi8oc?CpljLnnMniYPlcTeu9Fe1vXcG2NSCo6FyRAFM



Scale = 1:73.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 60.0	2-0-0	TC 0.75	in (loc) l/defl L/d	MT20	169/123
(Roof Snow=60.0)	Plate Grip DOL 1.15	BC 0.38	Vert(LL) -0.11 15-16 >848 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.63	Vert(TL) -0.13 17-19 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.03 11 n/a n/a		
BCDL 10.0	Code IBC2009/TPI2007			Weight: 350 lb	FT = 0%

**LUMBER-**  
 TOP CHORD 2x6 SPF 1650F 1.5E  
 BOT CHORD 2x6 SPF 1650F 1.5E  
 WEBS 2x4 SPF-S No.2  
 OTHERS 2x4 SPF-S No.2  
 WEDGE  
 Left: 2x4 SPF-S No.2, Right: 2x4 SPF-S No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-7-1 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-10.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 4-17, 5-17, 5-15, 8-15, 9-15

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 0-5-8.  
 (lb) - Max Horz 2=407(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) except 2=638(LC 9), 17=776(LC 8), 15=866(LC 7), 11=628(LC 10)  
 Max Grav All reactions 250 lb or less at joint(s) except 2=2309(LC 22), 17=2869(LC 21), 15=3197(LC 21), 11=2230(LC 22)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=0/296, 2-54=-1846/408, 54-55=-1281/436, 55-56=-1252/437, 3-56=-1200/461, 3-57=-957/540, 4-57=-952/540, 4-58=-19/369, 5-58=-19/369, 5-6=-56/289, 6-7=-56/289, 7-8=-56/289, 8-59=-56/289, 9-59=-56/289, 9-60=-815/477, 10-60=-817/476, 10-61=-868/374, 61-62=-1013/350, 62-63=-1082/349, 11-63=-1725/321, 11-12=0/296  
 BOT CHORD 2-64=-394/955, 19-64=-394/955, 19-65=-351/909, 65-66=-351/909, 18-66=-351/909, 17-18=-351/909, 16-17=-52/283, 15-16=-52/283, 14-15=-110/558, 14-67=-110/558, 67-68=-110/558, 13-68=-110/558, 13-69=-26/807, 11-69=-26/807  
 WEBS 3-19=-273/177, 4-19=-76/657, 4-17=-1563/522, 5-17=-1155/379, 5-15=-311/130, 8-15=-1386/472, 9-15=-1480/422, 9-13=-73/725, 10-13=-360/156, 6-16=-424/142

- NOTES-** (13-14)  
 1) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-7-3, Exterior(2) 4-7-3 to 7-7-3, Interior(1) 10-7-3 to 30-11-1, Exterior(2) 33-11-1 to 43-6-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
 2) TCLL: ASCE 7-05; Pf=60.0 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0  
 3) Unbalanced snow loads have been considered for this design.  
 4) This truss has been designed for greater of min roof live load of 14.0 psf or 1.00 times flat roof load of 60.0 psf on overhangs non-concurrent with other live loads.  
 5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.  
 6) Provide adequate drainage to prevent water ponding.  
 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.  
 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 638 lb uplift at joint 2, 776 lb uplift at joint 17, 866 lb uplift at joint 15 and 628 lb uplift at joint 11.  
 10) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.  
 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Rufus Deering/ 428 Forest Ave
682091	003	GESTR	1	1	A_MGE_E137787_10/21/2016 2:48:39 PM Job Reference (optional)

Boise Cascade, Biddeford, ME 04005, Chris Falton

Run: 7.640 s Feb 22 2016 Print: 7.640 s Feb 22 2016 MiTek Industries, Inc. Fri Oct 21 14:59:51 2016 Page 2  
ID:7O0D14DCuzLpbMwUiaGjYxySFB3-Yi8oc?CpljLnnMniYPlcTeu9Fe1vXcG2NSCo6FyRAFM

**NOTES-** (13-14)

- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Dimensions are in feet-inches-sixteenths
- 14) Drawing prepared exclusively for manufacturing by Boise Cascade.

**LOAD CASE(S)** Standard