Job	Truss	Truss Type	Qty	Ply	
692942	001	GESI	1	1	A_MGE_e125990_1/19/2018 12:54:52 PM Job Reference (optional)

BoiseStructural Solutions,Saco, ME 04072, Samantha Turbide

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Fri Jan
ID:WqO2gqMuaYgvgQ979I42sBywEw1-o2a5Oo2jpg8NdbUG_3C0RY

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 04/05/18

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	46.2	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	169/123
(Ground Snow=60.0)		Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.45	Horz(TL)	-0.01	12	n/a	n/a		
BCLL	0.0 *	Code IBC2009/TPI2007		Matrix-SH							Weight: 88 lb	FT = 0%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
OTHERS 2x4 SPF-S No.2

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

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

REACTIONS. (lb/size) 16=500/20-0-0 (min. 0-4-9), 17=285/20-0-0 (min. 0-4-9), 18=277/20-0-0 (min. 0-4-9), 20=186/20-0-0 (min. 0-4-9), 21=459/20-0-0 (min. 0-4-9), 15=285/20-0-0 (min. 0-4-9), 14=277/20-0-0 (min. 0-4-9), 13=186/20-0-0 (min. 0-4-9), 12=459/20-0-0 (min. 0-4-9)
Max Horz 21=-303(LC 6)
Max Uplift 17=-70(LC 7), 18=-76(LC 9), 20=-192(LC 7), 21=-167(LC 8), 15=-70(LC 6), 14=-75(LC 9), 13=-185(LC 6), 12=-169(LC 9)
Max Grav 16=500(LC 1), 17=375(LC 2), 18=357(LC 2), 20=186(LC 1), 21=561(LC 2), 15=375(LC 3), 14=357(LC 3), 13=186(LC 1), 12=561(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-138/376, 2-3=-93/307, 3-22=-12/268, 22-23=-4/271, 4-23=-1/328, 4-5=0/327, 5-6=0/316, 6-7=0/316, 7-8=0/327, 8-24=0/328, 24-25=0/271, 9-25=-6/268, 9-10=-86/307, 10-11=-133/376
BOT CHORD 1-21=-232/159, 20-21=-232/154, 19-20=-232/154, 18-19=-232/154, 17-18=-232/154, 16-17=-232/154, 15-16=-232/154, 14-15=-232/154, 13-14=-232/154, 12-13=-232/154, 11-12=-232/154
WEBS 6-16=-459/0, 5-17=-341/122, 4-18=-295/138, 3-20=-183/137, 2-21=-391/191, 7-15=-341/122, 8-14=-295/138, 9-13=-183/134, 10-12=-391/192

NOTES- (12-13)
1) Wind: ASCE 7-05; 105mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) 0-0-0 to 3-0-0, Exterior(2)3-0-0 to 8-0-0, Corner(3) 8-0-0 to 11-0-0, Exterior(2)14-0-0 to 19-0-0 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) 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.
3) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
4) Unbalanced snow loads have been considered for this design.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
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 3-6-0 tall by 2-0-0 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 70 lb uplift at joint 17, 76 lb uplift at joint 18, 192 lb uplift at joint 20, 167 lb uplift at joint 21, 70 lb uplift at joint 15, 75 lb uplift at joint 14, 185 lb uplift at joint 13 and 169 lb uplift at joint 12.
10) Non Standard bearing condition. Review required.
11) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Dimensions are in feet-inches-sixteenths
13) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S)

Continued on page 2

CITY OF PORTLAND, MAINE RESURGAM

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 04/05/18

LOAD CASE(S)

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-112, 6-11=-112, 1-11=-20
2) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-23=-112, 6-23=-155, 6-11=-48, 1-11=-20
3) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-6=-48, 6-24=-155, 11-24=-112, 1-11=-20
4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: 1-6=-20, 6-11=-20, 1-11=-40
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-6=45, 6-11=45, 1-11=-12
      Horz: 1-6=-57, 6-11=57
6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-6=-17, 6-11=29, 1-11=-12
      Horz: 1-6=5, 6-11=41
7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-6=29, 6-11=-17, 1-11=-12
      Horz: 1-6=-41, 6-11=-5
8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-22=49, 6-22=30, 6-11=30, 1-11=-12
      Horz: 1-22=-61, 6-22=-42, 6-11=42
9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-6=30, 6-25=30, 11-25=49, 1-11=-12
      Horz: 1-6=-42, 6-25=42, 11-25=61
10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-22=23, 6-22=15, 6-11=15, 1-11=-12
      Horz: 1-22=-35, 6-22=-27, 6-11=27
11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: 1-6=15, 6-25=15, 11-25=23, 1-11=-12
      Horz: 1-6=-27, 6-25=27, 11-25=35

Job	Truss	Truss Type	Qty	Ply	
692942	002	Common	2	1	A_PMT_e125990_1/19/2018 12:54:50 PM Job Reference (optional)

BoiseStructural Solutions,Saco, ME 04072, Samantha Turbide

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Fri Jan
ID:WqO2gqMuaYgvgQ979I42sBywEw1-GE8Tb73LazGEEl3SYmjF_lGH

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 04/05/18

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	46.2	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.12	7-9	>999	240	MT20	169/123
(Ground Snow=60.0)		Lumber DOL	1.15	BC	0.45	Vert(TL)	-0.29	7-9	>825	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(TL)	0.04	6	n/a	n/a		
BCLL	0.0 *	Code IBC2009/TPI2007		Matrix-SH							Weight: 85 lb	FT = 0%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x4 SPF-S No.2
WEDGE
Left: 2x3 SPF No.2, Right: 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-9, 4-6

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

REACTIONS. (lb/size) 9=1456/0-5-8 (min. 0-1-14), 6=1456/0-5-8 (min. 0-1-14)
Max Horz 9=-303(LC 6)
Max Uplift 9=-330(LC 8), 6=-330(LC 9)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-585/0, 2-10=-498/18, 2-11=-1350/339, 11-12=-1316/340, 3-12=-1190/367, 3-13=-1190/367, 13-14=-1316/340, 4-14=-1350/339, 4-15=-498/0, 5-15=-585/0
BOT CHORD 1-9=0/424, 8-9=-234/1385, 7-8=-234/1385, 6-7=-230/1385, 5-6=0/424
WEBS 3-7=-163/707, 4-7=-551/279, 2-7=-551/279, 2-9=-1294/466, 4-6=-1294/466

NOTES- (9-10)
1) Wind: ASCE 7-05; 105mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-0-0, Exterior(2) 8-0-0 to 11-0-0, Interior(1) 14-0-0 to 19-0-0 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; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
3) Unbalanced snow loads have been considered for this design.
4) Plate(s) at joint(s) 8 checked for a plus or minus 5 degree rotation about its center.
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 3-6-0 tall by 2-0-0 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 330 lb uplift at joint 9 and 330 lb uplift at joint 6.
8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Dimensions are in feet-inches-sixteenths
10) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S)
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-112, 3-5=-112, 1-5=-20
2) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-11=-112, 3-11=-155, 3-5=-48, 1-5=-20

Continued on page 2

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LOAD CASE(S)

3) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-48, 3-14=-155, 5-14=-112, 1-5=-20

4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-5=-20, 1-5=-40

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-10=45, 10-12=36, 3-12=45, 3-13=45, 13-15=36, 5-15=45, 1-9=59, 6-9=-12, 5-6=59
Horz: 1-10=-57, 10-12=-48, 3-12=-57, 3-13=57, 13-15=48, 5-15=57

6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-17, 3-5=29, 1-9=27, 5-9=-12
Horz: 1-3=5, 3-5=41

7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=29, 3-5=-17, 1-6=-12, 5-6=27
Horz: 1-3=-41, 3-5=-5

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=49, 2-3=30, 3-5=30, 1-9=21, 5-9=-12
Horz: 1-2=-61, 2-3=-42, 3-5=42

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=30, 3-4=30, 4-5=49, 1-6=-12, 5-6=21
Horz: 1-3=-42, 3-4=42, 4-5=61

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=23, 2-3=15, 3-5=15, 1-9=21, 5-9=-12
Horz: 1-2=-35, 2-3=-27, 3-5=27

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-4=15, 4-5=23, 1-6=-12, 5-6=21
Horz: 1-3=-27, 3-4=27, 4-5=35

Job	Truss	Truss Type	Qty	Ply	
692942	003	GESTR	2	1	B_MGE_e125990_1/19/2018 12:54:57 PM Job Reference (optional)

BoiseStructural Solutions,Saco, ME 04072, Samantha Turbide

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Fri Jan
ID:WqO2gqMuaYgvgQ979I42sBywEw1-GE8Tb73LazGEEl3SYmjF_IGAN

Reviewed for Code Compliance
Inspections Division
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Date: 04/05/18

Plate Offsets (X,Y)-- [1:Edge,0-0-11], [1:0-3-8,Edge], [7:Edge,0-4-1], [7:0-3-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	46.2	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.60	8-11	>711	240	MT20	169/123
(Ground Snow=60.0)		Lumber DOL	1.15	BC	0.82	Vert(TL)	-0.90	8-11	>471	180	MT18HS	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.96	Horz(TL)	0.13	7	n/a	n/a		
BCLL	0.0 *	Code IBC2009/TPI2007		Matrix-SH							Weight: 284 lb	FT = 0%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E *Except*
T1,T4: 2x6 SP M 23
BOT CHORD 2x4 SP 2700F 2.2E *Except*
B2: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF-S No.2
OTHERS 2x4 SPF-S No.2
WEDGE
Left: 2x8 SP M 23, Right: 2x8 SP M 23

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 1=2628/0-5-8 (min. 0-2-3), 7=2628/0-5-8 (min. 0-2-3)
Max Horz1=485(LC 7)
Max Uplift1=-435(LC 8), 7=-435(LC 9)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-47=-4217/762, 47-48=-4058/763, 2-48=-3800/795, 2-3=-3778/815, 3-49=-3622/826, 49-50=-3494/840, 4-50=-3482/863, 4-51=-3482/863, 51-52=-3494/840, 5-52=-3622/826, 5-6=-3778/815, 6-53=-3800/795, 53-54=-4058/763, 7-54=-4217/762
BOT CHORD 1-41=-520/3470, 41-42=-520/3470, 11-42=-520/3470, 11-43=-160/2286, 10-43=-160/2286, 9-10=-160/2286, 9-44=-160/2286, 8-44=-160/2286, 8-45=-520/3470, 45-46=-520/3470, 7-46=-520/3470
WEBS 2-11=-1085/451, 4-11=-294/1671, 4-8=-294/1671, 6-8=-1085/451

NOTES- (10-11)
1) Wind: ASCE 7-05; 105mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2)0-3-10 to 3-10-13, Interior(1)3-10-13 to 14-4-13, Exterior(2)14-4-13 to 18-0-0, Interior(1)21-7-3 to 32-1-3 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; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
3) Unbalanced snow loads have been considered for this design.
4) All plates are MT20 plates unless otherwise indicated.
5) Plate(s) at joint(s) 10 and 9 checked for a plus or minus 5 degree rotation about its center.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 435 lb uplift at joint 1 and 435 lb uplift at joint 7.
9) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Dimensions are in feet-inches-sixteenths
11) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S)
1) Dead + Snow (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 2

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 04/05/18

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-41=-20, 41-42=-60, 42-43=-20, 43-44=-60, 44-45=-20, 45-46=-60, 7-46=-20, 1-4=-112, 4-7=-112

2) Dead + Snow (Unbal. Left) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-41=-20, 41-42=-60, 42-43=-20, 43-44=-60, 44-45=-20, 45-46=-60, 7-46=-20, 1-49=-112, 4-49=-170, 4-7=-48

3) Dead + Snow (Unbal. Right) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-41=-20, 41-42=-60, 42-43=-20, 43-44=-60, 44-45=-20, 45-46=-60, 7-46=-20, 1-4=-48, 4-52=-170, 7-52=-112

4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-40, 1-4=-20, 4-7=-20

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-12, 1-47=45, 47-50=36, 4-50=45, 4-51=45, 51-54=36, 7-54=45
Horz: 1-47=-57, 47-50=-48, 4-50=-57, 4-51=57, 51-54=48, 7-54=57

6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-12, 1-4=-17, 4-7=29
Horz: 1-4=5, 4-7=41

7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-12, 1-4=29, 4-7=-17
Horz: 1-4=-41, 4-7=-5

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-12, 1-48=49, 4-48=30, 4-7=30
Horz: 1-48=-61, 4-48=-42, 4-7=42

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-12, 1-4=30, 4-53=30, 7-53=49
Horz: 1-4=-42, 4-53=42, 7-53=61

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-12, 1-48=23, 4-48=15, 4-7=15
Horz: 1-48=-35, 4-48=-27, 4-7=27

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-12, 1-4=15, 4-53=15, 7-53=23
Horz: 1-4=-27, 4-53=27, 7-53=35

Job	Truss	Truss Type	Qty	Ply	
692942	004	FINK	9	1	B_PMT_e125990_1/19/2018 12:54:55 PM Job Reference (optional)

BoiseStructural Solutions,Saco, ME 04072, Samantha Turbide

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Fri Jan
ID:WqO2gqMuaYgvgQ979I42sBywEw1-GE8Tb73LazGEEl3SYmjF_IGC

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 04/05/18

Plate Offsets (X,Y)-- [1:0-0-5,0-3-5], [1:0-3-8,Edge], [7:0-3-8,Edge], [7:0-0-5,0-3-5], [8:0-1-8,0-1-12], [11:0-1-8,0-1-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	46.2	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.54	8-11	>792	240	MT20	169/123
(Ground Snow=60.0)		Lumber DOL	1.15	BC	0.88	Vert(TL)	-0.87	8-11	>489	180	MT20HS	148/108
TCDL	10.0	Rep Stress Incr	YES	WB	0.96	Horz(TL)	0.14	7	n/a	n/a		
BCLL	0.0 *	Code IBC2009/TPI2007		Matrix-SH							Weight: 171 lb	FT = 0%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E *Except*
T1,T4: 2x6 SP M 23
BOT CHORD 2x4 SPF 2100F 1.8E *Except*
B2: 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF-S No.2
WEDGE
Left: 2x8 SP M 23, Right: 2x8 SP M 23

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

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

REACTIONS. (lb/size) 1=2343/0-5-8 (min. 0-3-0), 7=2343/0-5-8 (min. 0-3-0)
Max Horz1=-485(LC 7)
Max Uplift1=-435(LC 9), 7=-435(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-3704/762, 18-19=-3544/763, 2-19=-3287/795, 2-3=-3265/815, 3-20=-3109/826, 20-21=-2980/841, 4-21=-2969/863, 4-22=-2969/863, 22-23=-2980/841, 5-23=-3109/826, 5-6=-3265/815, 6-24=-3287/795, 24-25=-3544/763, 7-25=-3704/762
BOT CHORD 1-12=-521/3032, 12-13=-521/3032, 11-13=-521/3032, 11-14=-160/1984, 10-14=-160/1984, 9-10=-160/1984, 9-15=-160/1984, 8-15=-160/1984, 8-16=-521/3032, 16-17=-521/3032, 7-17=-521/3032
WEBS 2-11=-1095/451, 4-11=-294/1377, 4-8=-294/1377, 6-8=-1095/451

NOTES- (10-11)
1) Wind: ASCE 7-05; 105mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2)0-3-10 to 3-10-13, Interior(1)3-10-13 to 14-4-13, Exterior(2)14-4-13 to 18-0-0, Interior(1)21-7-3 to 32-1-3 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; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) All plates are MT20 plates unless otherwise indicated.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 435 lb uplift at joint 1 and 435 lb uplift at joint 7.
9) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) Dimensions are in feet-inches-sixteenths
11) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S)
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-20, 1-4=-112, 4-7=-112

Continued on page 2

CITY OF PORTLAND, MAINE RESURGAM

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Approved with Conditions
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LOAD CASE(S)

2) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-12=-20, 12-13=-50, 13-14=-20, 14-15=-50, 15-16=-20, 16-17=-50, 7-17=-20, 1-4=-89, 4-7=-89

3) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-12=-20, 12-13=-50, 13-14=-20, 14-15=-50, 15-16=-20, 16-17=-50, 7-17=-20, 1-20=-89, 4-20=-133, 4-7=-41

4) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-12=-20, 12-13=-50, 13-14=-20, 14-15=-50, 15-16=-20, 16-17=-50, 7-17=-20, 1-4=-41, 4-23=-133, 7-23=-89

5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-7=-40, 1-4=-20, 4-7=-20

6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-12, 1-18=45, 18-21=36, 4-21=45, 4-22=45, 22-25=36, 7-25=45
Horz: 1-18=-57, 18-21=-48, 4-21=-57, 4-22=57, 22-25=48, 7-25=57

7) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-12, 1-4=-17, 4-7=29
Horz: 1-4=5, 4-7=41

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-12, 1-4=29, 4-7=-17
Horz: 1-4=-41, 4-7=-5

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-12, 1-19=49, 4-19=30, 4-7=30
Horz: 1-19=-61, 4-19=-42, 4-7=42

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-12, 1-4=30, 4-24=30, 7-24=49
Horz: 1-4=-42, 4-24=42, 7-24=61

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-12, 1-19=23, 4-19=15, 4-7=15
Horz: 1-19=-35, 4-19=-27, 4-7=27

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-7=-12, 1-4=15, 4-24=15, 7-24=23
Horz: 1-4=-27, 4-24=27, 7-24=35

13) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-20, 1-20=-112, 4-20=-170, 4-7=-48

14) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-20, 1-4=-48, 4-23=-170, 7-23=-112

15) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-12=-20, 12-13=-60, 13-14=-20, 14-15=-60, 15-16=-20, 16-17=-60, 7-17=-20, 1-4=-20, 4-7=-20

Job	Truss	Truss Type	Qty	Ply	
692942	006	GESI	1	1	C_MGE_e125990_1/19/2018 12:55:02 PM Job Reference (optional)

BoiseStructural Solutions,Saco, ME 04072, Samantha Turbide

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Fri Jan
ID:WqO2gqMuaYgvgQ979I42sBywEw1-kQiroT4_LHO5svef6UEUWzpal

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Inspections Division
Approved with Conditions
Date: 04/05/18

Plate Offsets (X,Y)-- [5:0-2-0,0-0-0], [6:0-3-0,0-4-4], [6:0-0-0,0-2-12], [12:0-3-0,0-4-4], [12:0-0-0,0-2-12], [13:0-2-0,0-0-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	46.2	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	169/123
(Ground Snow=60.0)		Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.41	Horz(TL)	0.01	17	n/a	n/a		
BCLL	0.0 *	Code IBC2009/TPI2007		Matrix-SH							Weight: 155 lb	FT = 0%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
OTHERS 2x4 SPF-S No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 9-24

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

REACTIONS. (lb/size) 1=168/29-6-0 (min. 0-6-1), 17=168/29-6-0 (min. 0-6-1), 24=208/29-6-0 (min. 0-6-1), 26=266/29-6-0 (min. 0-6-1), 27=272/29-6-0 (min. 0-6-1), 28=269/29-6-0 (min. 0-6-1), 29=268/29-6-0 (min. 0-6-1), 30=239/29-6-0 (min. 0-6-1), 31=355/29-6-0 (min. 0-6-1), 23=266/29-6-0 (min. 0-6-1), 22=272/29-6-0 (min. 0-6-1), 21=269/29-6-0 (min. 0-6-1), 20=268/29-6-0 (min. 0-6-1), 19=239/29-6-0 (min. 0-6-1), 18=355/29-6-0 (min. 0-6-1)
Max Horz1=-400(LC 6)
Max Uplift1=-113(LC 6), 17=-7(LC 7), 26=-59(LC 7), 27=-81(LC 9), 28=-68(LC 9), 29=-76(LC 8), 30=-100(LC 8), 31=-170(LC 8), 23=-33(LC 6), 22=-81(LC 9), 21=-68(LC 8), 20=-76(LC 9), 19=-100(LC 9), 18=-169(LC 9)
Max Grav 1=183(LC 7), 17=168(LC 1), 24=208(LC 1), 26=372(LC 2), 27=375(LC 2), 28=295(LC 2), 29=268(LC 1), 30=239(LC 1), 31=356(LC 2), 23=372(LC 3), 22=375(LC 3), 21=295(LC 3), 20=268(LC 1), 19=239(LC 1), 18=356(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-372/276, 2-3=-287/253, 3-32=-235/241, 4-32=-227/248, 4-5=-180/240, 5-6=-124/221, 6-33=-123/225, 7-33=-118/234, 7-8=-130/281, 8-9=-132/335, 9-10=-132/335, 10-11=-130/281, 11-34=-48/195, 12-34=-106/187, 12-13=-114/183, 13-14=-104/121, 14-35=-38/59, 15-35=-104/52, 15-16=-113/64, 16-17=-177/81
BOT CHORD 1-31=-63/174, 30-31=-63/174, 29-30=-63/174, 28-29=-63/174, 27-28=-63/174, 26-27=-63/174, 25-26=-63/174, 24-25=-63/174, 23-24=-63/174, 22-23=-63/174, 21-22=-63/174, 20-21=-63/174, 19-20=-63/174, 18-19=-63/174, 17-18=-63/174
WEBS 9-24=-191/5, 8-26=-332/83, 7-27=-335/149, 5-28=-256/133, 4-29=-226/130, 3-30=-206/126, 2-31=-294/190, 10-23=-332/80, 11-22=-335/149, 13-21=-256/133, 14-20=-226/130, 15-19=-206/126, 16-18=-294/189

NOTES- (12-13)
1) Wind: ASCE 7-05; 105mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 11-9-0, Corner(3) 11-9-0 to 14-9-0, Exterior(2) 17-9-0 to 26-4-4 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) 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.
3) TCLL: ASCE 7-05; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
4) Unbalanced snow loads have been considered for this design.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * 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.

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Inspections Division
Approved with Conditions
Date: 04/05/18

NOTES- (12-13)

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 1, 7 lb uplift at joint 17, 59 lb uplift at joint 27, 68 lb uplift at joint 28, 76 lb uplift at joint 29, 100 lb uplift at joint 30, 170 lb uplift at joint 31, 33 lb uplift at joint 23, 81 lb uplift at joint 22, 68 lb uplift at j joint 20, 100 lb uplift at joint 19 and 169 lb uplift at joint 18.
11) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Dimensions are in feet-inches-sixteenths
13) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S)

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-112, 9-17=-112, 1-17=-20
2) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-33=-112, 9-33=-164, 9-17=-48, 1-17=-20
3) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-9=-48, 9-34=-164, 17-34=-112, 1-17=-20
4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-9=-20, 9-17=-20, 1-17=-40
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-9=45, 9-17=45, 1-17=-12
   Horz: 1-9=-57, 9-17=57
6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-9=-17, 9-17=29, 1-17=-12
   Horz: 1-9=5, 9-17=41
7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-9=29, 9-17=-17, 1-17=-12
   Horz: 1-9=-41, 9-17=-5
8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-32=49, 9-32=30, 9-17=30, 1-17=-12
   Horz: 1-32=-61, 9-32=-42, 9-17=42
9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: 1-9=30, 9-35=30, 17-35=49, 1-17=-12
   Horz: 1-9=-42, 9-35=42, 17-35=61
10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-32=23, 9-32=15, 9-17=15, 1-17=-12
    Horz: 1-32=-35, 9-32=-27, 9-17=27
11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: 1-9=15, 9-35=15, 17-35=23, 1-17=-12
    Horz: 1-9=-27, 9-35=27, 17-35=35

Job	Truss	Truss Type	Qty	Ply	
692942	007	Common	9	1	C_PMT_e125990_1/19/2018 12:54:59 PM Job Reference (optional)

BoiseStructural Solutions,Saco, ME 04072, Samantha Turbide

Run: 8.110 s Jun 13 2017 Print: 8.110 s Jun 13 2017 MiTek Industries, Inc. Fri Jan
ID:WqO2gqMuaYgvgQ979I42sBywEw1-kQiroT4_LHO5svef6UEUWzpLc

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 04/05/18

Plate Offsets (X,Y)-- [1:Edge,0-0-11], [1:0-3-8,Edge], [7:Edge,0-4-1], [7:0-3-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	46.2	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.41	8-10	>855	240	MT20	169/123
(Ground Snow=60.0)		Lumber DOL	1.15	BC	0.81	Vert(TL)	-0.54	8-10	>640	180	MT20HS	148/108
TCDL	10.0	Rep Stress Incr	YES	WB	0.51	Horz(TL)	0.12	7	n/a	n/a		
BCLL	0.0 *	Code IBC2009/TPI2007		Matrix-SH							Weight: 130 lb	FT = 0%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 SPF-S No.2
WEDGE
Left: 2x8 SP M 23, Right: 2x8 SP M 23

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 1=2010/0-5-8 (min. 0-3-2), 7=2010/0-5-8 (min. 0-3-2)
Max Horz1=-398(LC 6)
Max Uplift1=-356(LC 8), 7=-356(LC 9)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-11=-3206/626, 11-12=-3070/627, 2-12=-2872/652, 2-3=-2801/642, 3-13=-2684/650, 13-14=-2570/663, 4-14=-2552/682, 4-15=-2552/682, 15-16=-2570/663, 5-16=-2684/650, 5-6=-2801/642, 6-17=-2872/652, 17-18=-3070/627, 7-18=-3206/626
BOT CHORD 1-10=-427/2620, 10-19=-129/1742, 9-19=-129/1742, 9-20=-129/1742, 8-20=-129/1742, 7-8=-427/2620
WEBS 4-8=-217/1153, 6-8=-851/360, 4-10=-217/1153, 2-10=-851/360

NOTES- (9-10)
1) Wind: ASCE 7-05; 105mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2)0-3-10 to 3-3-10, Interior(1)3-3-10 to 11-9-0, Exterior(2)11-9-0 to 14-9-0, Interior(1)17-9-0 to 26-2-6 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; Pg= 60.0 psf (ground snow); Pf=46.2 psf (flat roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
3) Unbalanced snow loads have been considered for this design.
4) All plates are MT20 plates unless otherwise indicated.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 356 lb uplift at joint 1 and 356 lb uplift at joint 7.
8) This truss is designed in accordance with the 2009 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) Dimensions are in feet-inches-sixteenths
10) Drawing prepared exclusively for manufacturing by Boise Cascade.

LOAD CASE(S)
1) Dead + Snow (balanced) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-112, 4-7=-112, 1-19=-20, 19-20=-60, 7-20=-20
2) Dead + Snow (Unbal. Left) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-13=-112, 4-13=-163, 4-7=-48, 1-19=-20, 19-20=-60, 7-20=-20

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LOAD CASE(S)

3) Dead + Snow (Unbal. Right) + Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-48, 4-16=-163, 7-16=-112, 1-19=-20, 19-20=-60, 7-20=-20

4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-7=-20, 1-7=-40

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-11=45, 11-14=36, 4-14=45, 4-15=45, 15-18=36, 7-18=45, 1-7=-12
Horz: 1-11=-57, 11-14=-48, 4-14=-57, 4-15=57, 15-18=48, 7-18=57

6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-17, 4-7=29, 1-7=-12
Horz: 1-4=5, 4-7=41

7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=29, 4-7=-17, 1-7=-12
Horz: 1-4=-41, 4-7=-5

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-12=49, 4-12=30, 4-7=30, 1-7=-12
Horz: 1-12=-61, 4-12=-42, 4-7=42

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=30, 4-17=30, 7-17=49, 1-7=-12
Horz: 1-4=-42, 4-17=42, 7-17=61

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-12=23, 4-12=15, 4-7=15, 1-7=-12
Horz: 1-12=-35, 4-12=-27, 4-7=27

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=15, 4-17=15, 7-17=23, 1-7=-12
Horz: 1-4=-27, 4-17=27, 7-17=35