

2-	1-12 5-7-4	7-3-0	7-3-0	1	5-7-4 2-1-12	
Plate Offsets (X,Y)	[2:0-0-0,0-0-4], [3:0-3-12,Edge], [5:0-0	B-12,Edge], [6:Edge,0-0-	4], [10:0-4-0,0-3-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d	PLATES GRIP	
TCLL 20.0	Plate Grip DOL 1.25	TC 0.93	Vert(LL) 0.36 9-10 >940	240	MT20 244/190	
TCDL 7.0	Lumber DOL 1.25	BC 0.66	Vert(CT) 0.31 9-10 >999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.92	Horz(CT) -0.09 8 n/a	n/a		ļ
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS			Weight: 160 lb FT = 20%	

15-0-0

LUMBER-

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

2-1-12

BRACING-

TOP CHORD **BOT CHORD** WFBS

22-3-0

Structural wood sheathing directly applied or 2-2-0 oc purlins. Rigid ceiling directly applied or 2-10-12 oc bracing.

4-10, 5-8 1 Row at midpt

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

27-10-4

30-0-0

REACTIONS. (lb/size) 2=1138/0-3-8, 8=1298/0-3-8

Max Horz 2=-177(LC 17)

Max Uplift2=-859(LC 8), 8=-972(LC 9)

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

TOP CHORD 2-19=-2161/3562, 3-19=-2153/3585, 3-20=-1327/2183, 4-20=-1238/2194, 4-21=-1236/2174,

5-21=-1326/2164. 5-22=-386/408. 6-22=-387/260 2-23=-3172/1934, 12-23=-3172/1934, 11-12=-2830/1826, 11-24=-2843/1830,

7-9-0

BOT CHORD 10-24=-2843/1830, 10-25=-2321/1448, 9-25=-2321/1448, 8-9=-2309/1446, 8-26=-307/511,

6-26=-307/511

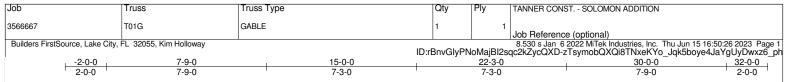
4-10=-1374/622, 5-10=-395/632, 5-9=-496/253, 3-10=-763/1256, 3-11=-560/283,

3-12=-392/194, 5-8=-1983/3058

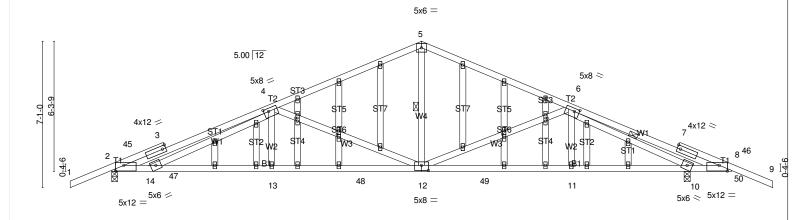
NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 15-0-0, Exterior(2R) 15-0-0 to 18-0-0, Interior(1) 18-0-0 to 32-0-0 zone; cantilever 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=859,



Scale = 1:55.8



	2-1-12	7-9-0	15-0-0	1 22-3-0	27-10-4	1 30-0-0
	2-1-12	5-7-4	7-3-0	7-3-0	5-7-4	2-1-12
Plate Offsets (X,Y)-	- [2:0-4-12,0-	-3-4], [4:0-2-14,0-1-12], [6:	0-2-14,0-1-12], [8:0-4-12,0-3-4], [1	2:0-4-0,0-3-0], [17:0-1-12,0-1-0], [2	20:0-1-12,0-1-0], [31:0-1-	12,0-1-0], [34:0-1-12
	0 4 01					

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.83	Vert(LL) 0.46 11-12 >731 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.82	Vert(CT) 0.41 11-12 >823 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 1.00	Horz(CT) -0.12 10 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 206 lb FT = 20%

BRACING-

WFBS

TOP CHORD

BOT CHORD

2-0-0 oc purlins (4-4-4 max.).

1 Row at midpt

Installation guide.

Rigid ceiling directly applied or 2-2-0 oc bracing.

5-12.6-10

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

LUMBER-

TOP CHORD 2x4 SP 2850F 2.0E or 2x4 SP M 31 *Except*

T1: 2x4 SP No.2 BOT CHORD 2x4 SP No.2

2x4 SP No.3 *Except* WEBS

W1: 2x4 SP No.2

OTHERS 2x4 SP No.3

REACTIONS. (lb/size) 2=1142/0-3-8, 10=1291/0-3-8

Max Horz 2=-169(LC 13)

Max Uplift2=-864(LC 8), 10=-967(LC 9)

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

TOP CHORD $2 - 45 = -1092/2439, \ 2 - 3 = -2530/5295, \ 3 - 4 = -2517/5338, \ 4 - 5 = -1384/2754, \ 5 - 6 = -1378/2743,$

6-7=-262/481, 7-8=-296/445, 8-46=-315/206

2-47=-2233/1019, 2-14=-4775/2324, 13-14=-3888/1989, 13-48=-3879/1987, **BOT CHORD**

12-48=-3879/1987, 12-49=-3101/1580, 11-49=-3101/1580, 10-11=-3108/1582, 8-10=-274/360,

8-50=-162/321

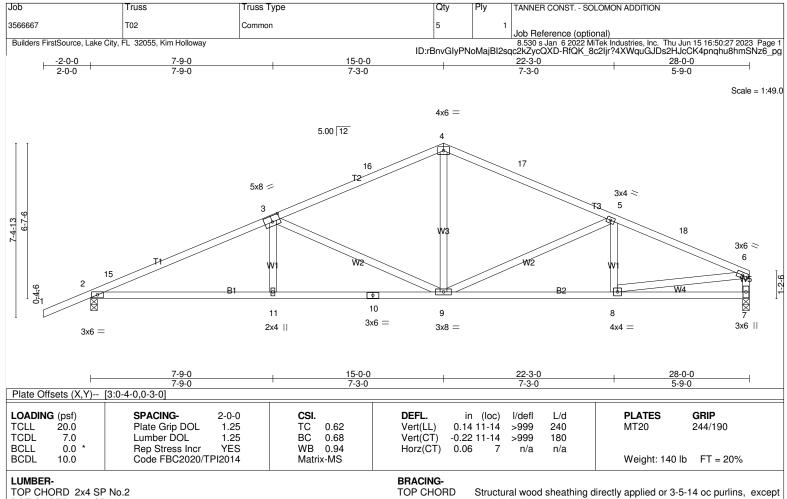
WEBS 5-12=-1740/659, 6-12=-463/985, 6-11=-593/252, 6-10=-1848/3606, 4-12=-857/1827,

4-13=-703/289, 4-14=-1079/378

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 15-0-0, Corner(3R) 15-0-0 to 18-0-0, Exterior(2N) 18-0-0 to 32-0-0 zone; cantilever 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) 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=864,
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



BOT CHORD 2x4 SP No.2 WFBS 2x4 SP No.3

end verticals

BOT CHORD Rigid ceiling directly applied or 5-9-8 oc bracing.

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

REACTIONS. (lb/size) 2=1142/0-3-8, 7=1027/0-3-8

Max Horz 2=226(LC 12)

Max Uplift2=-596(LC 12), 7=-484(LC 13)

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

TOP CHORD 2-15=-2065/945, 3-15=-2057/968, 3-16=-1338/691, 4-16=-1249/702, 4-17=-1247/715,

5-17=-1335/704, 5-18=-1548/799, 6-18=-1653/788, 6-7=-973/510 **BOT CHORD** 2-11=-977/1847, 10-11=-976/1851, 9-10=-976/1851, 8-9=-677/1482 **WEBS** 3-11=0/308, 3-9=-778/571, 4-9=-237/620, 5-9=-429/374, 6-8=-626/1390

NOTES-

1) Unbalanced roof live loads have been considered for this design.

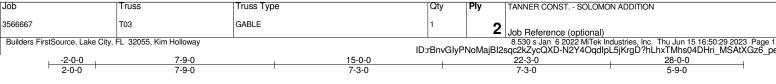
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 15-0-0, Exterior(2R) 15-0-0 to 18-0-0, Interior(1) 18-0-0 to 27-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

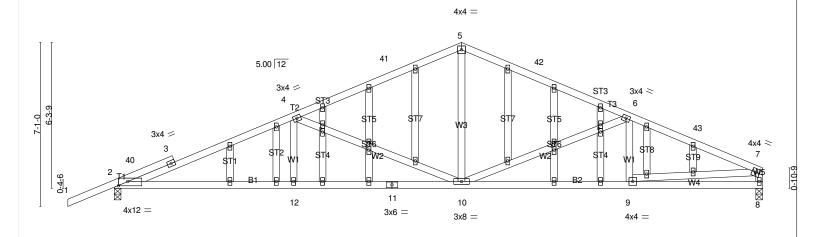
6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=596, 7=484.





28-0-0



	7-9-0	7-3-0		7-3-0	5-9-0
Plate Offsets (X,Y)	[2:0-4-12,0-2-3], [15:0-1-12,0-1-0], [18	3:0-1-12,0-1-0], [29:0-1-12	2,0-1-0], [32:0-1-12,0-1-0		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL . in	(loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.51	Vert(LL) 0.12 1:	2-39 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.44	Vert(CT) -0.17 1:	2-39 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.27	Horz(CT) 0.03	8 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS			Weight: 325 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

22-3-0

2-0-0 oc purlins (6-0-0 max.), except end verticals.

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

15-0-0

LUMBER-

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

REACTIONS. (lb/size) 2=1146/0-3-8, 8=1021/0-3-8

Max Horz 2=208(LC 12)

Max Uplift2=-601(LC 12), 8=-483(LC 13)

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

7-9-0

TOP CHORD 2-40=-1267/529, 2-3=-2190/1015, 3-4=-2190/1041, 4-41=-1390/708, 5-41=-1302/718, 5-42=-1297/731, 6-42=-1385/720, 6-43=-1705/869, 7-43=-1810/859, 7-8=-965/506 **BOT CHORD** 2-12=-1047/2021, 11-12=-1047/2021, 10-11=-1047/2021, 9-10=-741/1626 WFBS 4-12=0/317, 4-10=-885/628, 5-10=-255/658, 6-10=-514/425, 7-9=-646/1437

- 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.

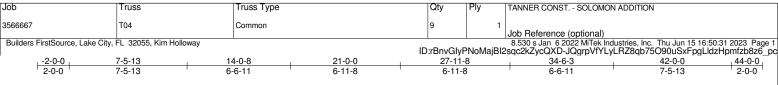
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

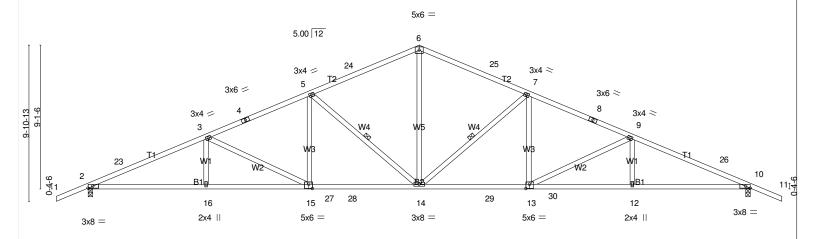
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 15-0-0, Exterior(2R) 15-0-0 to 18-0-0, Interior(1) 18-0-0 to 27-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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.
- 6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.

 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=601, 8=483.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Studding applied to ply: 1(Front)



Scale = 1:73.1



	7-5-13	14-0-8	21-0-0	27-11-8	34-6-3	42-0-0	1
	7-5-13	6-6-11	6-11-8	6-11-8	6-6-11	7-5-13	٦
Plate Offsets (2	X,Y) [10:0-3-8,Edge], [13	3:0-2-12,0-3-4], [15:0-2-1	2,0-3-4]				

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.77	Vert(LL) -0.33 13-14 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.72	Vert(CT) -0.57 13-14 >888 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.80	Horz(CT) 0.18 10 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	, ,	Weight: 222 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.1 2x4 SP No.3 WFBS

BRACING-

TOP CHORD **BOT CHORD** WFBS

Structural wood sheathing directly applied or 2-2-0 oc purlins. Rigid ceiling directly applied or 4-11-9 oc bracing.

1 Row at midpt 7-14. 5-14

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

REACTIONS. (lb/size) 2=1662/0-3-8, 10=1662/0-3-8

Max Horz 2=-239(LC 13)

Max Uplift2=-839(LC 12), 10=-839(LC 13) Max Grav 2=1782(LC 2), 10=1782(LC 2)

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

2-23=-3685/1554, 3-23=-3630/1571, 3-4=-3029/1288, 4-5=-2929/1307, 5-24=-2294/1085, 6-24=-2231/1099, 6-25=-2231/1099, 7-25=-2294/1085, 7-8=-2929/1307, 8-9=-3029/1288, TOP CHORD

9-26=-3630/1572, 10-26=-3685/1555

BOT CHORD 2-16=-1543/3351, 15-16=-1543/3351, 15-27=-1128/2742, 27-28=-1128/2742,

14-28=-1128/2742, 14-29=-965/2742, 29-30=-965/2742, 13-30=-965/2742, 12-13=-1305/3351,

10-12=-1305/3351

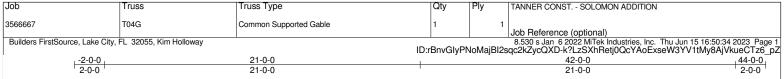
6-14=-536/1430, 7-14=-905/607, 7-13=-158/556, 9-13=-679/461, 9-12=0/281,

5-14=-905/607, 5-15=-158/556, 3-15=-679/460, 3-16=0/281

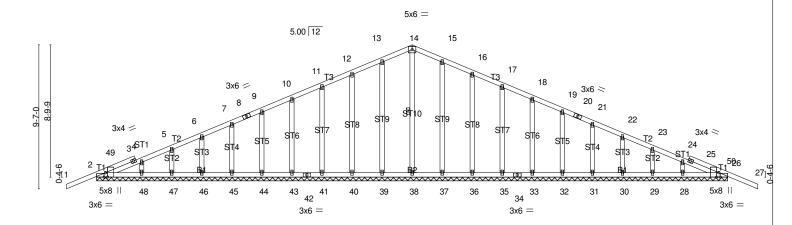
NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 22-6, Interior(1) 2-2-6 to 21-0-0, Exterior(2R) 21-0-0 to 25-2-6, Interior(1) 25-2-6 to 44-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=839, 10=839.



Scale = 1:76.7



42-0-0 42-0-0 Plate Offsets (X V)-, [2:0-3-8 Edge] [2:0-1-1 Edge] [26:0-3-8 Edge] [26:0-1-1 Edge]

Tiate Offices (X,T)	[2.0 0 0,Eage], [2.0 1 1,Eage], [20.0 c	, o, Lago], [20.0 1 1, Lago	~]	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.39	Vert(LL) -0.02 27 n/r 120	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.06	Vert(CT) -0.02 27 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.01 26 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S		Weight: 265 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD**

WFBS

2-0-0 oc purlins (6-0-0 max.).

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

1 Row at midpt 14-38

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

REACTIONS. All bearings 42-0-0.

Max Horz 2=231(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 48, 28 except 2=-156(LC 8), 39=-105(LC 12), 40=-109(LC 12),

41=-106(LC 12), 43=-107(LC 12), 44=-107(LC 12), 45=-107(LC 12), 46=-105(LC 12), 47=-114(LC 12), 37=-101(LC 13), 36=-111(LC 13), 35=-106(LC 13), 33=-107(LC 13), 32=-107(LC 13), 31=-107(LC 13), 30=-105(LC 13), 29=-113(LC 13), 26=-163(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 2, 38, 39, 40, 41, 43, 44, 45, 46, 47, 48, 37, 36, 35, 33, 32, 31, 30, 29, 28, 26

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

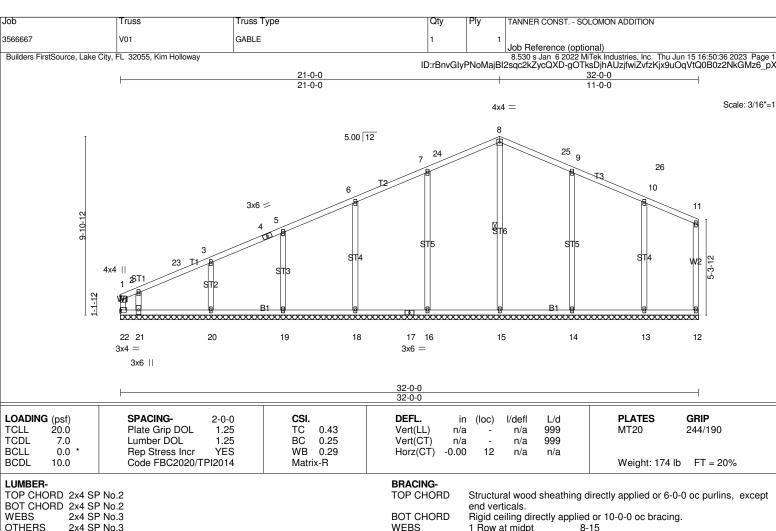
10-11=-84/255, 11-12=-103/312, 12-13=-124/372, 13-14=-144/425, 14-15=-144/425,

15-16=-124/372, 16-17=-103/312, 17-18=-84/255

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -2-0-0 to 2-2-6, Exterior(2N) 2-2-6 to 21-0-0, Corner(3R) 21-0-0 to 25-0-0, Exterior(2N) 25-0-0 to 44-0-0 zone; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 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.
- * 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.
- 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 48, 28 except (jt=lb) 2=156, 39=105, 40=109, 41=106, 43=107, 44=107, 45=107, 46=105, 47=114, 37=101, 36=111, 35=106, 33=107, 32=107, 31=107, 30=105 29=113 26=163
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



2x4 SP No.3

8-15

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

REACTIONS. All bearings 32-0-0.

Max Horz 22=353(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 12, 15 except 22=-106(LC 22), 16=-231(LC

12), 18=-209(LC 12), 19=-216(LC 12), 20=-208(LC 12), 21=-601(LC 12), 14=-233(LC

13), 13=-196(LC 13)

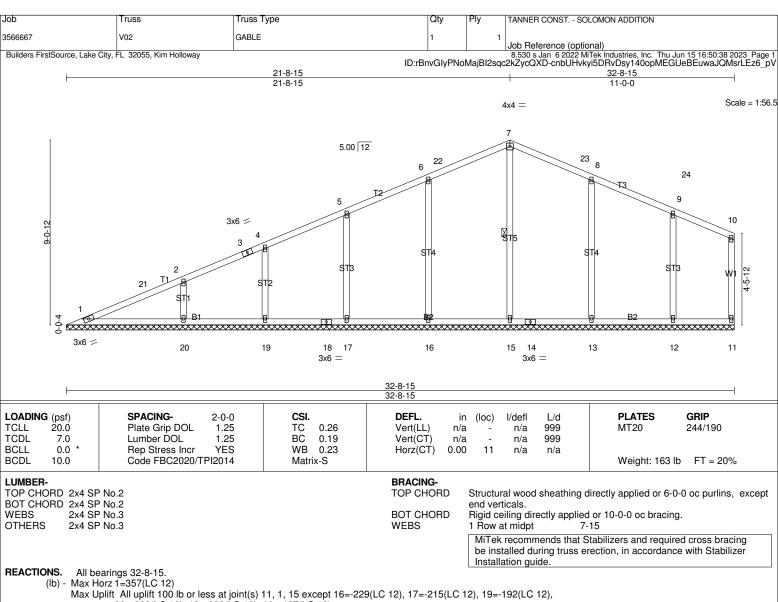
Max Grav All reactions 250 lb or less at joint(s) 12 except 22=590(LC 12), 15=380(LC 22), 16=390(LC 25), 18=378(LC 2), 19=345(LC 25), 20=320(LC 2), 21=286(LC 25), 14=397(LC 26), 13=348(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-22=-389/120, 1-2=-472/134, 2-23=-311/70, 3-23=-304/85, 8-24=-93/2 1-22=-389/120, 1-2=-472/134, 2-23=-311/70, 3-23=-304/85, 8-24=-93/261 **WEBS** 7-16=-235/255, 2-21=-195/411, 9-14=-238/258

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-2, Interior(1) 3-4-2 to 21-0-0, Exterior(2R) 21-0-0 to 24-2-6, Interior(1) 24-2-6 to 31-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 15 except (jt=lb) 22=106, 16=231, 18=209, 19=216, 20=208, 21=601, 14=233, 13=196.



20=-283(LC 12), 13=-233(LC 13), 12=-197(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 11, 1 except 15=380(LC 22), 16=388(LC 25), 17=386(LC 2), 19=314(LC 25), 20=416(LC 2), 13=397(LC 26), 12=348(LC 2)

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

TOP CHORD 1-21=-335/79, 2-21=-325/95, 7-22=-92/261 WEBS 6-16=-233/254, 2-20=-278/301, 8-13=-239/258

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 4-0-5, Interior(1) 4-0-5 to 21-8-15, Exterior(2R) 21-8-15 to 25-0-3, Interior(1) 25-0-3 to 32-7-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 1, 15 except (jt=lb) 16=229, 17=215, 19=192, 20=283, 13=233, 12=197.

Job Truss Truss Type Qty TANNER CONST. - SOLOMON ADDITION 3566667 V03 Valley lob Reference (optional) Builders FirstSource, Lake City, FL 32055, Kim Holloway 8.530 s Jan 6 2022 MiTek Industries, Inc. Thu Jun 15 16:50:39 2023 Page 1 ID:rBnvGlyPNoMajBl2sqc2kZycQXD-4z9sVElaTPLIWNR8bnX1LanSd2YmdN4Sf?bPtgz6_pL 21-6-1 30-8-15 17-11-14 3-6-3 Scale = 1:50.33x6 =4x6 = 6 7 8 5.00 12 9 22 5 23 10 3x6 = 11 3 3x6 = 24 20 19 18 17 16 15 14 13 12 3x6 = 30-8-15 Plate Offsets (X,Y)-- [7:0-3-0,0-2-4], [8:0-3-0,0-2-4] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl I/d **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.24 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.17 Vert(CT) n/a n/a 999 **BCLL** WB 0.22 0.0 Rep Stress Incr YES Horz(CT) 0.00 12 n/a n/a

LUMBER-

BCDL

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

10.0

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals

Weight: 147 lb

FT = 20%

end verticals

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. All bearings 30-8-6.

(lb) - Max Horz 1=291(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 12, 1, 15 except 16=-105(LC 12), 18=-234(LC 12), 19=-191(LC 12),

Matrix-S

20=-274(LC 12), 14=-240(LC 13), 13=-180(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 12, 1 except 15=364(LC 26), 16=384(LC 25), 18=387(LC 2), 19=314(LC 25), 20=400(LC 2), 14=398(LC 2), 13=306(LC 2)

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

Code FBC2020/TPI2014

TOP CHORD 1-21=-268/62. 2-21=-258/90

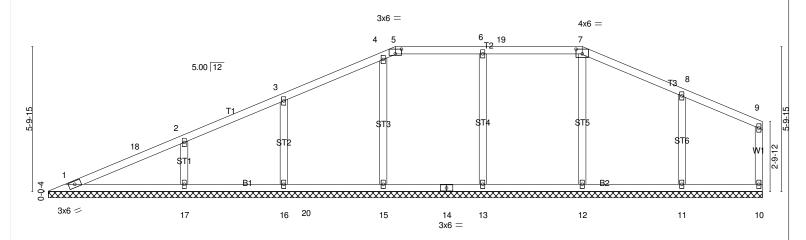
WEBS 5-18=-220/258, 2-20=-269/291, 9-14=-236/265

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-14, Interior(1) 3-9-14 to 17-11-14, Exterior(2E) 17-11-14 to 21-6-1, Exterior(2R) 21-6-1 to 25-10-3, Interior(1) 25-10-3 to 30-7-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 1, 15 except (jt=lb) 16=105, 18=234, 19=191, 20=274, 14=240, 13=180.

Scale = 1:46.3



28-8-15 28-8-15

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

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL . in (Ic	oc) I/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.23	Vert(LL) n/a	- n/a	999	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.17	Vert(CT) n/a	- n/a	999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00	10 n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S	, ,			Weight: 127 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3 BRACING-

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals

end verticals.

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. All bearings 28-8-6.

(lb) - Max Horz 1=222(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 10 except 12=-110(LC 13), 13=-185(LC 8), 15=-162(LC 12),

16=-204(LC 12), 17=-271(LC 12), 11=-224(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 10 except 12=364(LC 2), 13=390(LC 26), 15=378(LC 2), 16=317(LC 25), 17=399(LC 2), 11=346(LC 2)

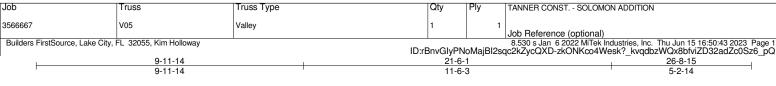
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-17=-267/288

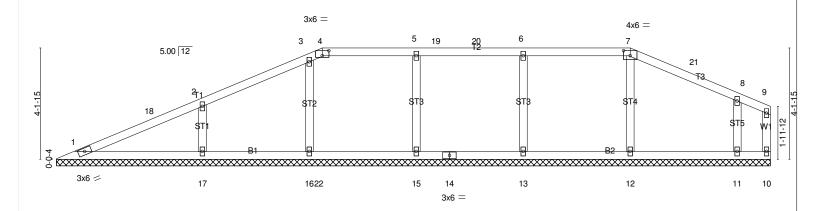
NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 13-11-14, Exterior(2R) 13-11-14 to 18-2-12, Interior(1) 18-2-12 to 21-6-1, Exterior(2R) 21-6-1 to 25-6-1, Interior(1) 25-6-1 to 28-7-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10 except (jt=lb) 12=110, 13=185, 15=162, 16=204, 17=271, 11=224.



Scale = 1:43.1



26-8-15 26-8-15

Plate Offsets (X,Y)-- [4:0-3-0,0-2-4], [7:0-3-0,0-2-4]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.24	Vert(LL) n/a - n/a 999	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.17	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.00 10 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S	, ,	Weight: 109 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3 BRACING-

TOP CHORD S

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals

end verticals.

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. All bearings 26-8-6.

(lb) - Max Horz 1=153(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 10 except 12=-130(LC 13), 13=-186(LC 8), 15=-173(LC 9),

16=-149(LC 12), 17=-279(LC 12), 11=-226(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 10 except 12=337(LC 2), 13=391(LC 25), 15=389(LC 26), 16=312(LC 2), 17=402(LC 2), 11=282(LC 2)

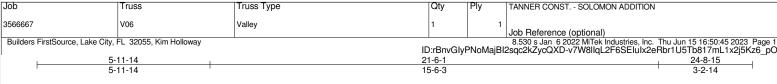
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-17=-270/297

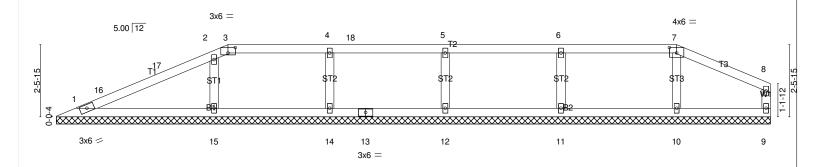
NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 9-11-14, Exterior(2R) 9-11-14 to 14-2-12, Interior(1) 14-2-12 to 21-6-1, Exterior(2R) 21-6-1 to 25-6-1, Interior(1) 25-6-1 to 26-7-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- B) * 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10 except (jt=lb) 12=130, 13=186, 15=173, 16=149, 17=279, 11=226.



Scale = 1:39.9



24-8-15 24-8-15 Plate Offsets (X,Y)-- [3:0-3-0,0-2-4], [7:0-3-0,0-2-4]

LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES	CSI. TC 0.24 BC 0.18 WB 0.07	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 9 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S		Weight: 89 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3 BRACING-

TOP CHORD S

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals

end verticals.

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. All bearings 24-8-6.

(lb) - Max Horz 1=84(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 10=-135(LC 13), 11=-189(LC 13), 12=-172(LC 8),

14=-167(LC 9), 15=-235(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 10=260(LC 1), 11=314(LC 23), 12=298(LC 1), 14=296(LC 24), 15=371(LC 23)

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

WEBS 2-15=-261/251

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 5-11-14, Exterior(2R) 5-11-14 to 10-2-12, Interior(1) 10-2-12 to 21-6-1, Exterior(2E) 21-6-1 to 24-7-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 10=135, 11=189, 12=172, 14=167, 15=235.