

Job J1022-5039	Truss ET1	Truss Type GABLE	Qty 1	Ply 1	106-22-144 Aragon
-------------------	--------------	---------------------	----------	----------	-------------------

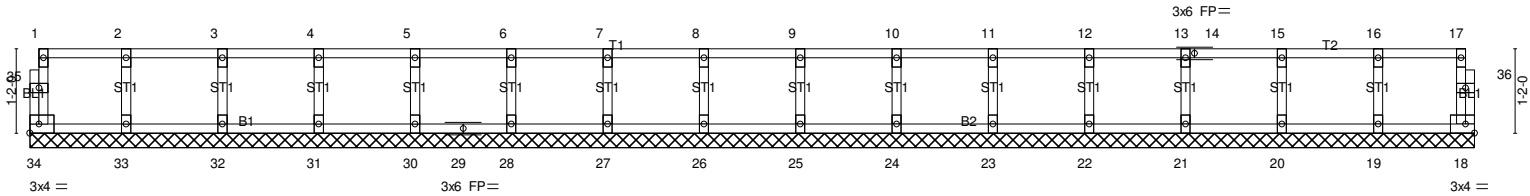
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Oct 5 16:45:56 2022 Page 1
ID:yM8NdNVZ6vP2wgkR6uNImKzKHmz-PKZukmy7Q?IR0CbGYY5PPQAKZZKHiCokduVRlqyWQBv

0-1-8

0-1-8

Scale: 3/8"=1'



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	18	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 83 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 (flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1 (flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 (flat)	
OTHERS 2x4 SP No.3 (flat)	

REACTIONS. All bearings 20-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 31, 30, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Job J1022-5039	Truss ET2	Truss Type GABLE	Qty 1	Ply 1	106-22-144 Aragon
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

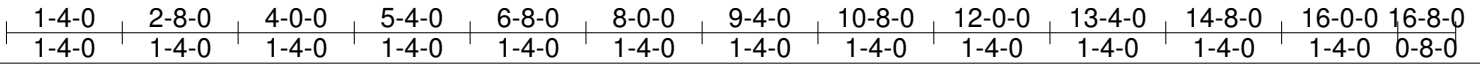
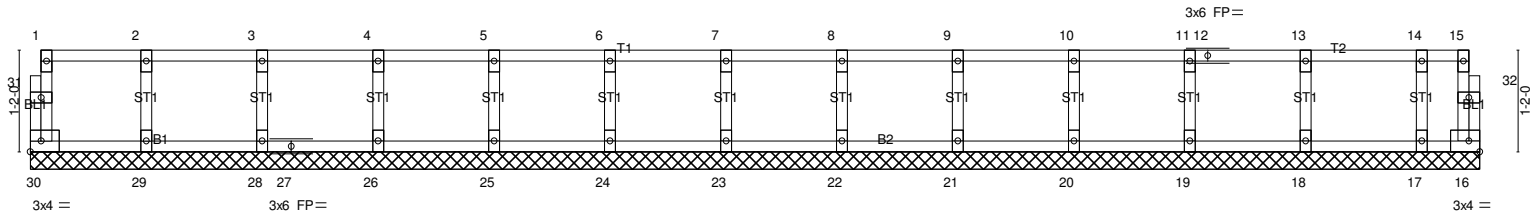
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Oct 5 16:45:57 2022 Page 1
ID:yM8NdNVZ6vP2wgkR6uNImKzKHmz-tX7Gy6zIBJtleMAS5GceyevFzggRf1urYE_HGyWQB

0-1-8

0-1-8

Scale = 1:26.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	16	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 70 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1 (flat)
BOT CHORD 2x4 SP No.1 (flat)
WEBS 2x4 SP No.3 (flat)
OTHERS 2x4 SP No.3 (flat)

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

REACTIONS. All bearings 16-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

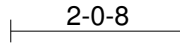
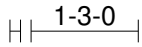
LOAD CASE(S) Standard

Job J1022-5039	Truss F1	Truss Type FLOOR	Qty 9	Ply 1	106-22-144 Aragon
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

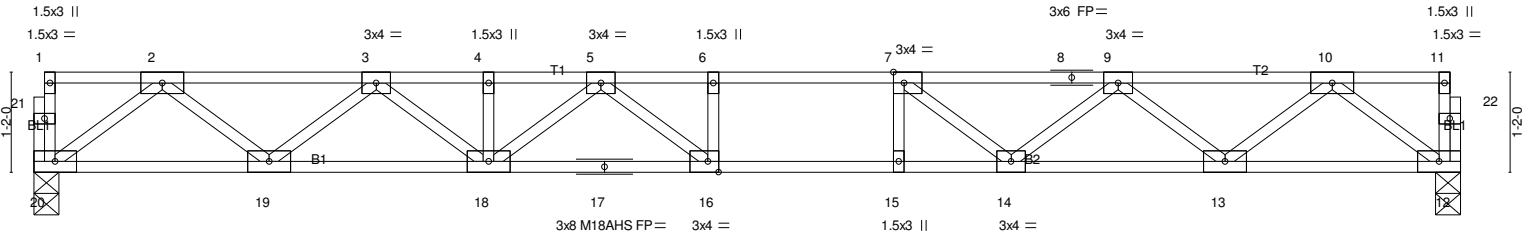
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Oct 5 16:45:57 2022 Page 1
ID:yM8NdNVZ6vP2wgkR6uNImKzKHmz-tX7Gy6zIBJtleMAS5GceyjmzS8RYCurYE_HGyWQB

0-1-8



0-1-8
Scale = 1:26.9



16-8-0
16-8-0

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [16:0-1-8,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.60	Vert(LL) -0.25 16-18 >777 480	MT20 244/190	
TCDL 10.0	Lumber DOL 1.00	BC 0.95	Vert(CT) -0.35 16-18 >567 360	M18AHS 186/179	
BCLL 0.0	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.06 12 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 84 lb FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1 (flat)
BOT CHORD 2x4 SP No.1 (flat)
WEBS 2x4 SP No.3 (flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 16-18,15-16.

REACTIONS. (size) 20=0-3-8 (min. 0-1-8), 12=0-3-8 (min. 0-1-8)
Max Grav 20=897(LC 1), 12=897(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1872/0, 3-4=-3077/0, 4-5=-3077/0, 5-6=-3492/0, 6-7=-3492/0, 7-8=-3020/0, 8-9=-3020/0, 9-10=-1878/0
BOT CHORD 19-20=0/1122, 18-19=0/2595, 17-18=0/3395, 16-17=0/3395, 15-16=0/3492, 14-15=0/3492, 13-14=0/2595, 12-13=0/1122
WEBS 2-20=-1405/0, 2-19=0/977, 3-19=-941/0, 3-18=0/615, 5-18=-406/0, 5-16=-175/488, 10-12=-1405/0, 10-13=0/984, 9-13=-933/0, 9-14=0/602, 7-14=-760/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - Plates checked for a plus or minus 1 degree rotation about its center.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

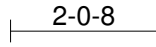
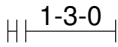
LOAD CASE(S) Standard

Job J1022-5039	Truss F2	Truss Type Floor	Qty 8	Ply 1	106-22-144 Aragon
-------------------	-------------	---------------------	----------	----------	-------------------

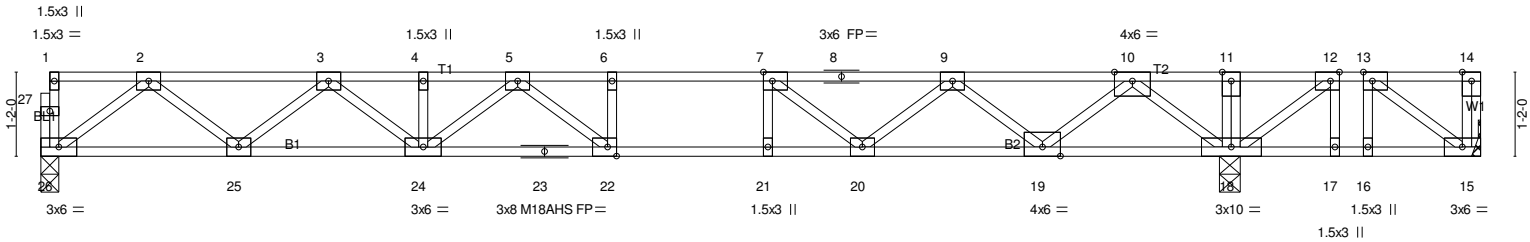
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Oct 5 16:45:58 2022 Page 1
ID:yM8NdNVZ6vP2wgkR6uNImKzKHmz-Ljge9SzNyd?9GWiefz8tVrGxXNqhA_F14C_YpiyWQBt

0-1-8



Scale: 3/8"=1'



16-6-4
16-6-4

16-6-8 20-0-0
0-0-4 3-5-8

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [22:0-1-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.60	Vert(LL)	-0.24 22-24	>835	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.81	Vert(CT)	-0.32 22-24	>609	360	M18AHS	186/179
BCLL 0.0	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.03 18	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 104 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 (flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1 (flat) *Except* B2: 2x4 SP 2400F 2.0E (flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 (flat)	

REACTIONS. (size) 26=0-3-0 (min. 0-1-8), 15=Mechanical, 18=0-3-8 (min. 0-1-8)
Max Uplift 15=-478(LC 3)
Max Grav 26=790(LC 10), 15=38(LC 4), 18=1725(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1602/0, 3-4=-2559/0, 4-5=-2559/0, 5-6=-2591/0, 6-7=-2591/0, 7-8=-1874/0,
8-9=-1874/0, 9-10=-476/0, 10-11=0/1700, 11-12=0/1700, 12-13=0/798
BOT CHORD 25-26=0/980, 24-25=0/2207, 23-24=0/2726, 22-23=0/2726, 21-22=0/2591, 20-21=0/2591,
19-20=0/1304, 18-19=-468/0, 17-18=-798/0, 16-17=-798/0, 15-16=-798/0
WEBS 2-26=-1227/0, 2-25=0/810, 3-25=-787/0, 3-24=0/450, 5-22=-323/207, 10-18=-1593/0,
10-19=0/1145, 9-19=-1083/0, 9-20=0/747, 7-20=-933/0, 7-21=0/284, 13-15=0/986,
13-16=-351/0, 12-18=-1230/0, 12-17=0/371

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) Plates checked for a plus or minus 1 degree rotation about its center.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 478 lb uplift at joint 15.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 9) CAUTION, Do not erect truss backwards.

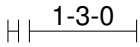
LOAD CASE(S) Standard

Job J1022-5039	Truss F3	Truss Type FLOOR GIRDER	Qty 1	Ply 1	106-22-144 Aragon
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor					Job Reference (optional)

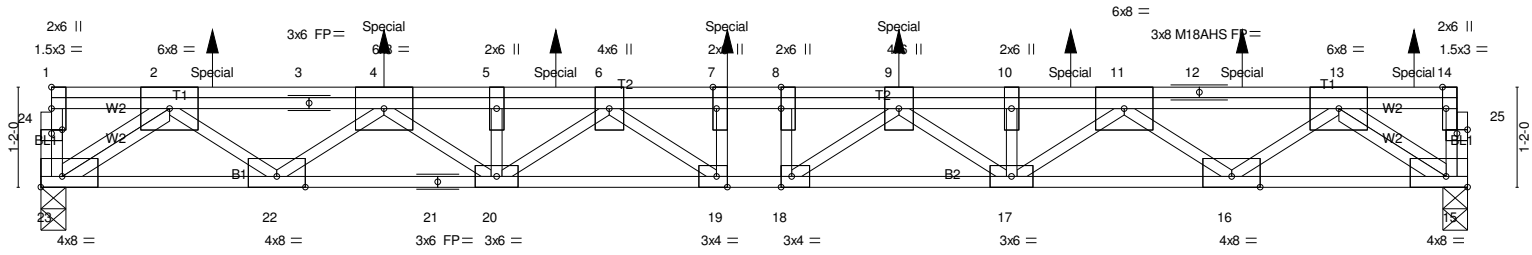
Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Oct 5 16:45:59 2022 Page 1
ID:yM8NdNVZ6vP2wgkR6uNlmKzKHmz-pvE0No_?jw7?tgJrDhf613o2EnDjvMFAJsj5M8yWQB8

0-1-8



0-1-8
Scale = 1:26.8



16-7-8
16-7-8

Plate Offsets (X,Y)-- [7:0-3-0,Edge], [8:0-3-0,0-0-0], [14:0-3-0,Edge], [15:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge], [23:Edge,0-1-8], [24:0-1-8,0-0-8], [25:0-1-8,0-0-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.86	Vert(LL)	0.35	19	>569	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.63	Vert(CT)	0.40	19	>493	M18AHS	186/179
BCLL 0.0	Rep Stress Incr	NO	WB 0.88	Horz(CT)	-0.09	15	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 114 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 (flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1 (flat) *Except* B2: 2x4 SP 2400F 2.0E (flat)	BOT CHORD Rigid ceiling directly applied or 5-7-12 oc bracing.
WEBS 2x4 SP No.3 (flat)	

REACTIONS. (size) 23=0-3-8 (min. 0-1-8), 15=0-3-7 (min. 0-1-8)
Max Uplift 23=-1494(LC 10), 15=-1819(LC 9)
Max Grav 23=666(LC 1), 15=651(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-26=-1422/3617, 3-26=-1422/3617, 3-4=-1422/3617, 4-5=-2335/5951, 5-27=-2335/5951,
6-27=-2335/5951, 6-7=-2687/6660, 7-8=-2687/6660, 8-9=-2687/6660, 9-10=-2339/5943,
10-28=-2339/5943, 11-28=-2339/5943, 11-12=-1430/3653, 12-29=-1430/3653,
13-29=-1430/3653
BOT CHORD 22-23=-2133/828, 21-22=-5074/1952, 20-21=-5074/1952, 19-20=-6520/2559,
18-19=-6660/2687, 17-18=-6521/2561, 16-17=-5085/1961, 15-16=-2193/835
WEBS 13-15=-1039/2717, 2-23=-1029/2666, 13-16=-1823/742, 2-22=-1854/742, 11-16=-675/1819,
4-22=-673/1850, 11-17=-1114/473, 4-20=-1138/478, 5-20=-94/252, 9-17=-277/832,
6-20=-280/812, 9-18=-461/272, 6-19=-477/292, 7-19=-140/307, 8-18=-132/254

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1494 lb uplift at joint 23 and 1819 lb uplift at joint 15.
 - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 18 lb down and 578 lb up at 2-0-0, 18 lb down and 578 lb up at 4-0-0, 18 lb down and 578 lb up at 6-0-0, 578 lb up at 8-0-0, 18 lb down and 578 lb up at 10-0-0, 18 lb down and 578 lb up at 12-0-0, and 18 lb down and 578 lb up at 14-0-0, and 23 lb down and 553 lb up at 16-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) 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

Job J1022-5039	Truss F3	Truss Type FLOOR GIRDER	Qty 1	Ply 1	106-22-144 Aragon
-------------------	-------------	----------------------------	----------	----------	-------------------

Comtech, Inc., Fayetteville, NC 28309, Marshall Naylor

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Wed Oct 5 16:45:59 2022 Page 2
ID:yM8NdNVZ6vP2wgkR6uNImKzKHmz-pvE0No_?jw7?tgJrDhf613o2EnDjvMFAJsj5M8yWQB

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 15-23=-10, 1-14=-100

Concentrated Loads (lb)

Vert: 4=62(B) 9=62(B) 7=62(B) 26=62(B) 27=62(B) 28=62(B) 29=62(B) 30=34(B)