

Job	Truss	Truss Type	Qty	Ply	Daigle Residence
J0524-3241	F01	FLOOR	18	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Aug 20 15:13:53 2024 Page 1
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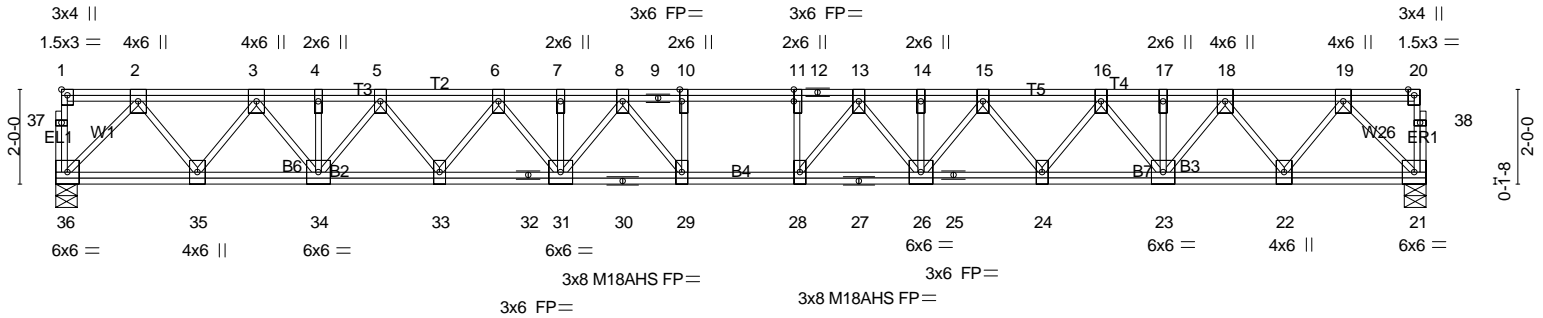
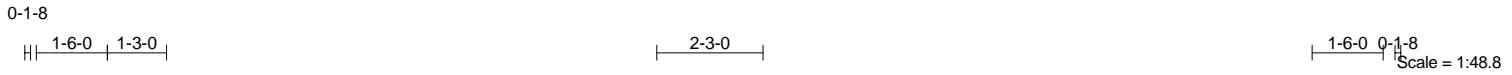


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [10:0-3-0,Edge], [11:0-3-0,0-0-0]	29-0-0 29-0-0
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LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.16	Vert(LL)	-0.24 28-29	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.27	Vert(CT)	-0.33 28-29	>999	360	M18AHS	186/179
BCLL 0.0	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.05 21	n/a	n/a		
BCDL 5.0	Code IBC2021/TPI2014		Matrix-S						
								Weight: 252 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 36=1259/0-5-8 (min. 0-1-8), 21=1259/0-5-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1803/0, 3-4=-3126/0, 4-5=-3126/0, 5-6=-4094/0, 6-7=-4764/0, 7-8=-4764/0, 8-9=-5107/0, 9-10=-5107/0, 10-11=-5107/0, 11-12=-5107/0, 12-13=-5107/0, 13-14=-4764/0, 14-15=-4764/0, 15-16=-4094/0, 16-17=-3126/0, 17-18=-3126/0, 18-19=-1803/0
BOT CHORD 35-36=0/1111, 34-35=0/2514, 33-34=0/3688, 32-33=0/4485, 31-32=0/4485, 30-31=0/4973, 29-30=0/4973, 28-29=0/5107, 27-28=0/4973, 26-27=0/4973, 25-26=0/4485, 24-25=0/4485, 23-24=0/3688, 22-23=0/2514, 21-22=0/1111
WEBS 2-36=-1601/0, 2-35=0/1192, 3-35=-1224/0, 3-34=0/1020, 5-34=-936/0, 5-33=0/699, 6-33=-673/0, 6-31=0/465, 19-21=-1601/0, 19-22=0/1192, 18-22=-1224/0, 18-23=0/1020, 16-23=-936/0, 16-24=0/699, 15-24=-673/0, 15-26=0/465, 13-26=-446/0, 13-28=-224/628, 8-31=-446/0, 8-29=-224/628, 10-29=-355/71, 11-28=-355/71

- 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 3x6 MT20 unless otherwise indicated.
 - 4) Plates checked for a plus or minus 1 degree rotation about its center.
 - 5) 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	Truss	Truss Type	Qty	Ply	Daigle Residence
J0524-3241	F02	FLOOR	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 Mitek Industries, Inc. Tue Aug 20 15:13:53 2024 Page 1
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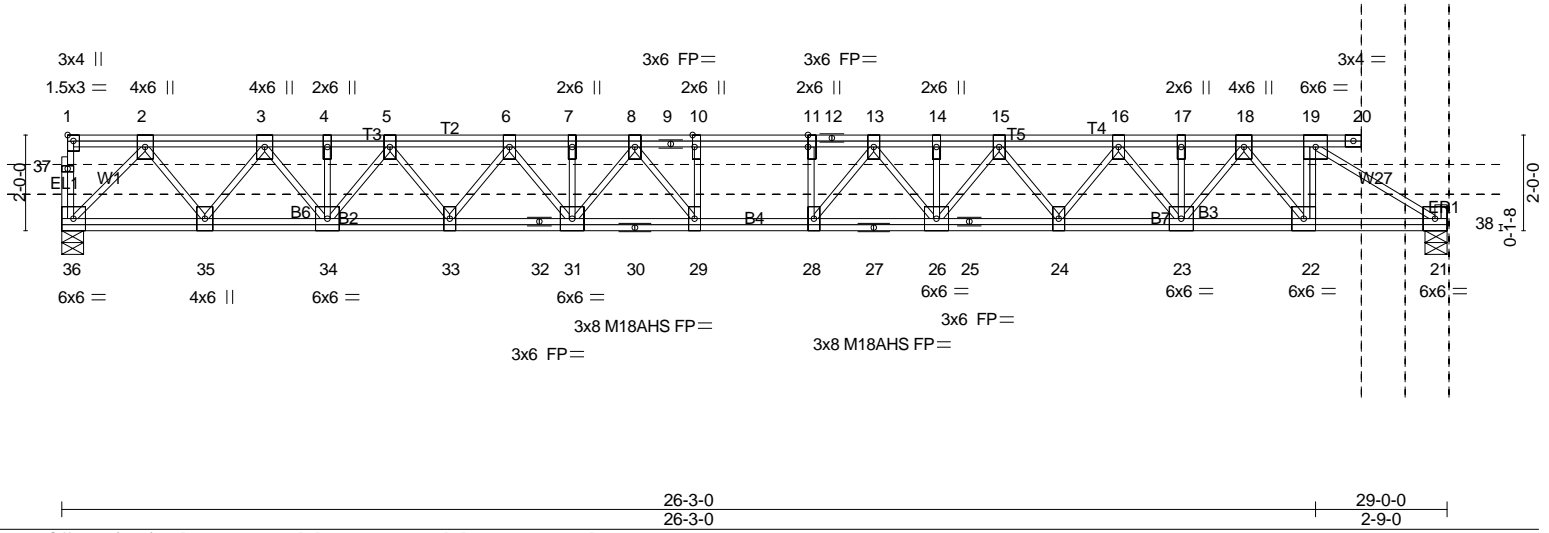
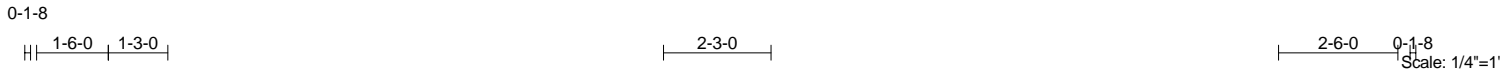


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [10:0-3-0,Edge], [11:0-3-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.27	Vert(LL) -0.24 28-29 >999 480	M18AHS	186/179
BCLL 0.0	Lumber DOL 1.00	WB 0.57	Vert(CT) -0.33 28-29 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.05 21 n/a n/a		
	Code IBC2021/TPI2014				Weight: 246 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 36=1255/0-5-8 (min. 0-1-8), 21=1134/0-5-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1797/0, 3-4=-3115/0, 4-5=-3115/0, 5-6=-4078/0, 6-7=-4743/0, 7-8=-4743/0, 8-9=-5078/0, 9-10=-5078/0, 10-11=-5078/0, 11-12=-5078/0, 12-13=-5078/0, 13-14=-4727/0, 14-15=-4727/0, 15-16=-4051/0, 16-17=-3085/0, 17-18=-3085/0, 18-19=-1717/0
 BOT CHORD 35-36=0/1108, 34-35=0/2506, 33-34=0/3674, 32-33=0/4467, 31-32=0/4467, 30-31=0/4949, 29-30=0/4949, 28-29=0/5078, 27-28=0/4939, 26-27=0/4939, 25-26=0/4445, 24-25=0/4445, 23-24=0/3643, 22-23=0/2440, 21-22=0/1720
 WEBS 2-36=-1596/0, 2-35=0/1188, 3-35=-1219/0, 3-34=0/1016, 5-34=-931/0, 5-33=0/695, 6-33=-669/0, 6-31=0/461, 19-21=-2006/0, 19-22=0/853, 18-22=-1170/0, 18-23=0/1074, 16-23=-931/0, 16-24=0/702, 15-24=-679/0, 15-26=0/470, 13-26=-447/0, 13-28=-216/629, 8-31=-441/0, 8-29=-226/619, 10-29=-351/72, 11-28=-356/67

- 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 3x6 MT20 unless otherwise indicated.
 - 4) Plates checked for a plus or minus 1 degree rotation about its center.
 - 5) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Daigle Residence
J0524-3241	F03	Floor	3	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Aug 20 15:13:54 2024 Page 1
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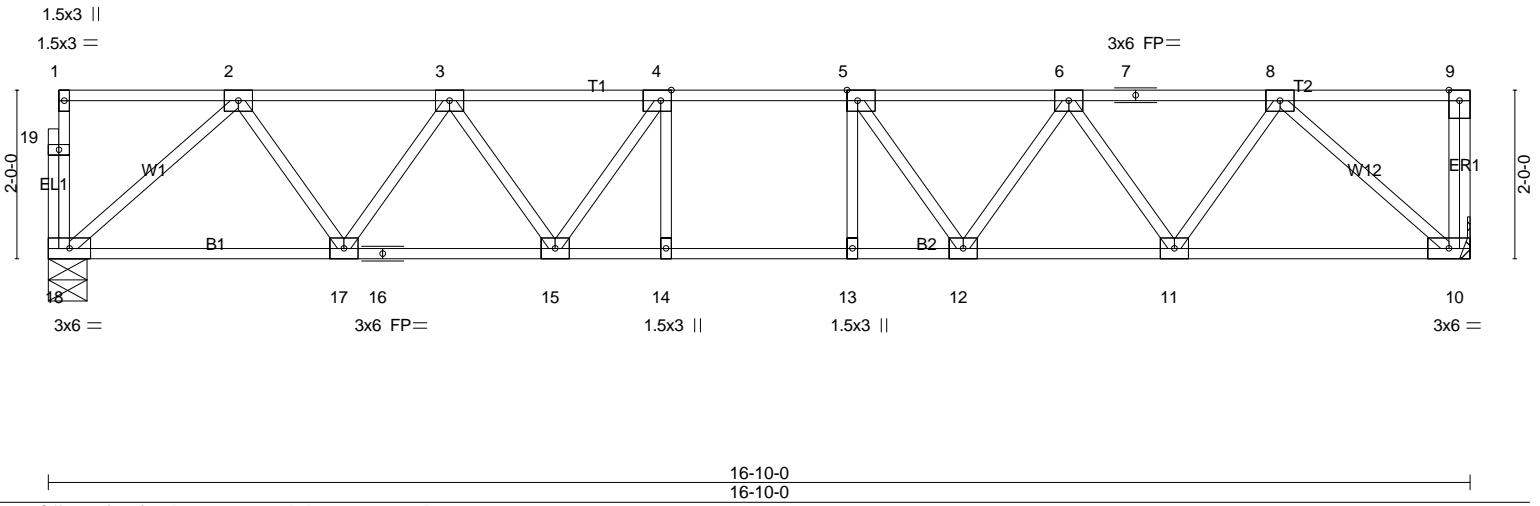
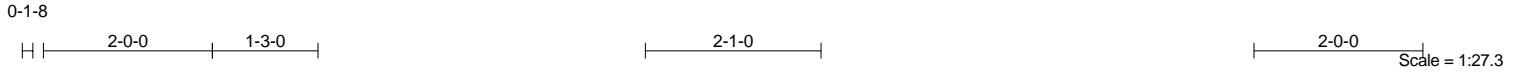


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.55	Vert(LL) -0.10 12-13 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.27	Vert(CT) -0.12 12-13 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 10 n/a n/a		
	Code IBC2021/TPI2014			Weight: 98 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.

REACTIONS. (lb/size) 18=724/0-5-8 (min. 0-1-8), 10=729/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1037/0, 3-4=-1460/0, 4-5=-1602/0, 5-6=-1460/0, 6-7=-1037/0, 7-8=-1037/0
 BOT CHORD 17-18=0/738, 16-17=0/1318, 15-16=0/1318, 14-15=0/1602, 13-14=0/1602, 12-13=0/1602, 11-12=0/1317, 10-11=0/739
 WEBS 2-18=-981/0, 2-17=0/540, 3-17=-506/0, 3-15=0/310, 4-15=-386/0, 8-10=-985/0, 8-11=0/539, 6-11=-505/0, 6-12=0/310, 5-12=-386/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) 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.
 - 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Daigle Residence
J0524-3241	FG1	Floor Supported Gable	1	1	Job Reference (optional)

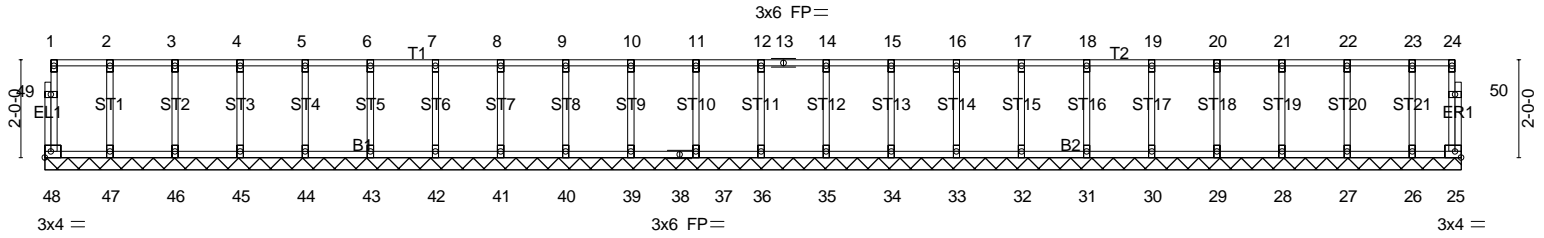
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Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Aug 20 15:13:55 2024 Page 1
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0-1-8
H

0-1-8
H

Scale = 1:47.2



29-0-0
29-0-0

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 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 25 n/a n/a		
BCDL 5.0	Code IBC2021/TPI2014	Matrix-R			
				Weight: 150 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 29-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 48, 25, 47, 46, 45, 44, 43, 42, 41, 40, 39, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26

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

- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - Plates checked for a plus or minus 1 degree rotation about its center.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - 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	Truss	Truss Type	Qty	Ply	Daigle Residence
J0524-3241	FG2	Floor Supported Gable	1	1	Job Reference (optional)

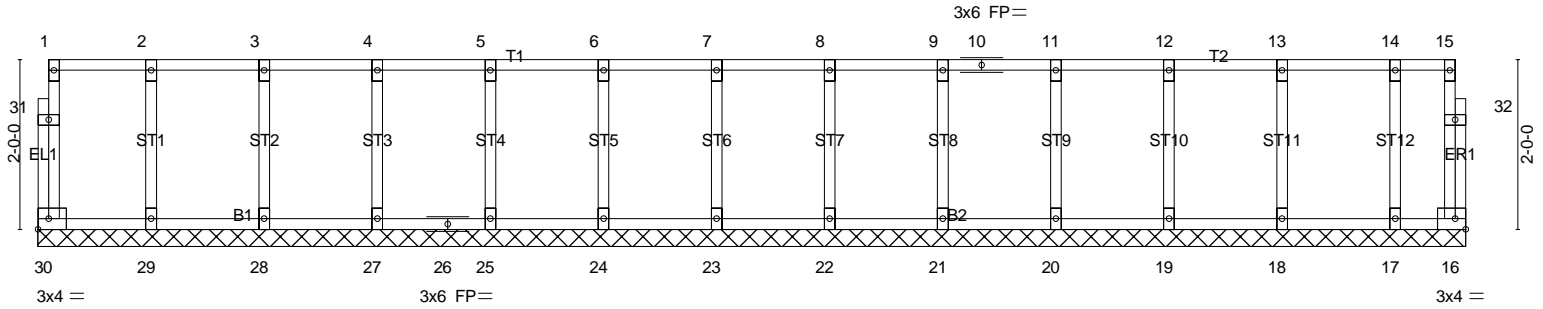
Comtech, Inc., Fayetteville, NC 28309, Anthony Williams

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0-1-8

0-1-8

Scale = 1:27.2



16-10-0
16-10-0

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 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 16 n/a n/a		
BCDL 5.0	Code IBC2021/TPI2014	Matrix-R			
				Weight: 90 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 16-10-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 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) 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