

Trenco 818 Soundside Rd Edenton, NC 27932

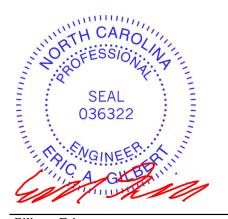
Re: J0425-2359 Weaver/Graves Residence/Harnett

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I75037667 thru I75037678

My license renewal date for the state of North Carolina is December 31, 2025.

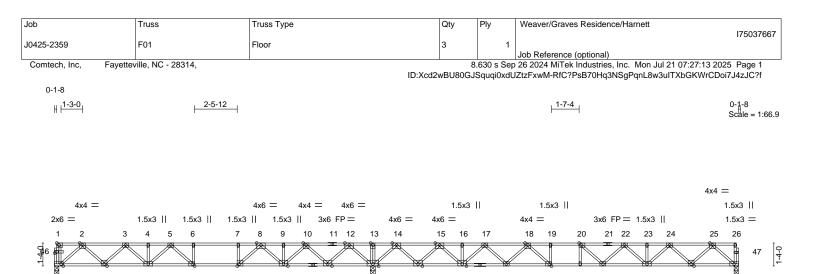
North Carolina COA: C-0844



July 21,2025

Gilbert, Eric

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



35 34

3x8 M18AHS FP =

4x6 =

33

32

31 30

1.5x3 ||

29

3x6 =

28

4x4 =

27

3x6 =

	42	41	40	39 38	37	36
=		4x4 =	Зx	6 FP =	$4x8 \equiv$	4x6 =
			4x6 =	4x6 =		

L	18-5-12				39-8-8								
1	18-5-12	I					21-2-12		1				
Plate Offsets (X,	Y) [20:0-1-8,Edge], [32:0-1-8,Edge],	[41:0-1-8,Edge], [42:0-1-8,Edg	ge], [45:0-1-8,Edge],	[46:0-	1-8,0-1	-0]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	· · ·	l/defl	L/d	PLATES	GRIP				
TCLL 40.0	Plate Grip DOL 1.00	TC 0.87	Vert(LL)	-0.28	31	>914	480	MT20	244/190				
TCDL 10.0 BCLL 0.0	Lumber DOL 1.00 Rep Stress Incr YES	BC 0.69 WB 0.74	Vert(CT)	-0.37	31 27	>690	360 n/a	M18AHS	186/179				
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	Horz(CT)	0.06	21	n/a	n/a	Weight: 208 lb	ET - 209/ E 119/ E				
BCDL 5.0	Code IRC2015/1F12014	Ivialitx-5						weight. 206 ib	FT = 20%F, 11%E				
LUMBER- TOP CHORD	2x4 SP 2400F 2.0E(flat)		BRACING- TOP CHOR	П	Structu	ural wood	sheathing di	irectly applied or 6-0-0 o	oc purlins				
	2x4 SP 2400F 2.0E(flat)					end vert	0	neerly applied of 0-0-0 (oc putititis,				
	2x4 SP No.3(flat)		BOT CHOR					or 6-0-0 oc bracing.					
REACTIONS.	(size) 37=0-3-8, 45=0-3-0, 27=0-3- Max Grav 37=2598(LC 1), 45=870(LC 3												
FORCES. (Ib) TOP CHORD	Max. Comp./Max. Ten All forces 250 2-3=-1630/0, 3-4=-2604/0, 4-5=-2604/ 8-9=-1715/942, 9-10=-1715/942, 10-1 14-15=-0/1094, 15-16=-1878/427, 16- 19-20=-3855/0, 20-22=-3754/0, 22-23=	, 5-6=-2813/217, 6-7=-2813/2 =-197/1615, 12-13=0/3440, 1 7=-1878/427, 17-18=-3089/0,	17, 7-8=-2813/217, 3-14=0/3440, 18-19=-3855/0,										
BOT CHORD	44-45=0/1017, 43-44=0/2223, 42-43=0 38-40=-1267/1049, 37-38=-2272/0, 36 32-33=0/3553, 31-32=0/3855, 30-31=0	37=-1981/0, 35-36=-742/1037	, 33-35=-156/2621,	9									
WEBS	2-45=-1301/0, 2-44=0/852, 3-44=-825/ 12-37=-1764/0, 12-38=0/1379, 10-38= 14-37=-1943/0, 14-36=0/1551, 15-36= 17-33=0/723, 25-27=-1461/0, 25-28=0	1322/0, 10-40=0/1050, 8-40=- 1526/0, 15-35=0/1227, 17-35	-891/0, 8-41=0/1235 =-1093/0,										

22-30=-104/294, 20-30=-301/345, 18-33=-738/0, 18-32=0/852, 19-32=-352/0, 20-31=-264/52, 7-41=-600/0

NOTES-

45

3x6

=

44

4x4 =

43

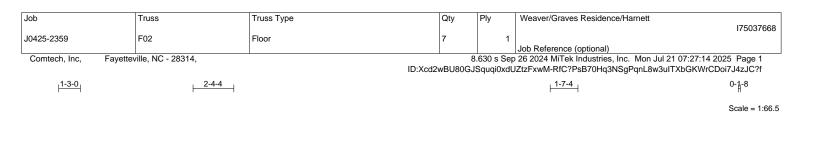
3x6

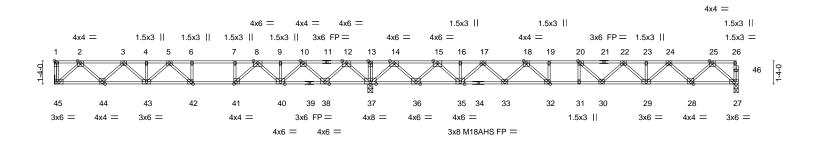
- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and PCB Building Component Science Michael Component Advancing Component Advancing Component Advancing and PCB and Component Advancing Component Compone and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)







	<u>18-2-12</u> 18-2-12	<u>39-5-8</u> 21-2-12								
Plate Offsets (X,Y)	[1:Edge,0-1-8], [20:0-1-8,Edge], [32:0-1	-8,Edge], [41:0-1-8,Edge]], [42:0-1-8,Edge]							
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.81 BC 0.66 WB 0.74 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.28 -0.37 0.06	(loc) 31 31 27	l/defl >917 >692 n/a	L/d 480 360 n/a	PLATES MT20 M18AHS Weight: 206 lb	GRIP 244/190 186/179 FT = 20%F, 11%E	
BOT CHORD 2x4 SF WEBS 2x4 SF	 2400F 2.0E(flat) 2400F 2.0E(flat) No.3(flat) 45=Mechanical, 37=0-3-8, 27=0-3-4 		BRACING- TOP CHOF BOT CHOF	RD	except	end verti	cals.	rectly applied or 6-0-0 c or 6-0-0 oc bracing.	oc purlins,	
	Grav 45=867(LC 3), 37=2591(LC 1), 27=									
TOP CHORD 2-3=- 8-9= 14-1! 19-2! BOT CHORD 44-4! 38-4(32-3: WEBS 2-45: 12-3: 7-41 17-3! 24-2!	Comp./Max. Ten All forces 250 (lb) or 1537/0, 3-4=-2506/0, 4-5=-2506/0, 5-6= -1666/975, 9-10=-1666/975, 10-12=-172 5=0/1101, 15-16=-1849/426, 16-17=-184 D=-3837/0, 20-22=-3740/0, 22-23=-3124 5=0/927, 43-44=0/2127, 42-43=0/2734, - D=-1301/1013, 37-38=-2284/0, 36-37=-2 3=0/3531, 31-32=0/3837, 30-31=0/3837 -1234/0, 2-44=0/848, 3-44=-822/0, 3-42 7=-1751/0, 12-38=0/1366, 10-38=-1311/ =-580/0, 14-37=-1944/0, 14-36=0/1553, 5=-1095/0, 17-33=0/725, 25-27=-1458/0 9=0/713, 22-29=-615/0, 22-30=-105/292 3=-740/0, 18-32=0/853, 19-32=-353/0	-2721/254, 6-7=-2721/25 2/1651, 12-13=0/3461, 13 19/426, 17-18=-30650, 11 00, 23-24=-3124/0, 24-25 41-42=-254/2721, 40-41= 001/0, 35-36=-741/1006, , 29-30=0/3576, 28-29=0/ 3=-43/515, 5-43=-310/13 0, 10-40=0/1038, 8-40=-£ 15-36=-1528/0, 15-35=0 , 25-28=0/1066, 24-28=-1	i4, 7-8=-2721/254, 3-14=0/3461, 8-19=-3837/0, i=-1863/0 -683/2191, 33-35=-154/2595 (2599, 27-28=0/10 1, 5-42=-559/10, 378/0, 8-41=0/1200 (7229, 1023/0,	, 97						
 All plates are MT20 All plates are 3x4 M Plates checked for a Refer to girder(s) for Recommend 2x6 str 	e loads have been considered for this de plates unless otherwise indicated. T20 unless otherwise indicated. a plus or minus 1 degree rotation about i r truss to truss connections. rongbacks, on edge, spaced at 10-0-0 c ttached to walls at their outer ends or re rect truss backwards.	ts center.		131" X 3	3") nails			SE/ 0363	• -	



G 111111111 July 21,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Stability and proponent of the component description (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Weaver/Graves F	Residence/Harnett		
		_					175037	7669
J0425-2359	F03	Floor	2	1	Job Reference (or	ational)		
Comtech, Inc, Fay	etteville, NC - 28314,			8.630 s Se		dustries, Inc. Mon Jul 21 07:2	27:15 2025 Page	1
	,		ID:Xcd2wBU800			370Hq3NSgPqnL8w3uITXbG		
0-1-8								
∦ <mark>1-3-0</mark>	2-5-12	-			2-5-	12		
	Į.	1			,	ļ.	Scale = 1	1:65.8
4x4 =		4x6 = 4x4 = 4x6 =	1.5	x3	1.5x3	3x6 FP=	4x4 =	
2x6 =	1.5x3 1.5x3 1	.5x3 1.5x3 3x6 FP = 4x6	i = 4x6 =		4x4 =	1.5x3 1.5x3	3x6 =	
1 2	3 4 5 6	7 8 9 10 11 12 13 14	15 1	16 17	18 19	20 21 22 23 24	25 26	
					2			c
								1-4-0
<u>₩</u>						<u> </u>		1

36

4x8 =

35

4x6 =

34 33

3x8 M18AHS FP =

4x6 =

32

31

30

29

3x6 =

28

4x4 =

27

3x10 =

18-5-12					39-5-8		
18-5-12					20-11-12		1
Plate Offsets (X,Y) [30:0-1-8,Edge], [31:0-1-8,Edge], [40:0-1	-8,Edge], [41:0-1-8,Edge]	, [44:0-1-8,Edge], [4	45:0-1-8,0-1-	0]			
LOADING (psf) SPACING- 2-0-0 TCLL 40.0 Plate Grip DOL 1.00 TCDL 10.0 Lumber DOL 1.00 BCLL 0.0 Rep Stress Incr YES BCDL 5.0 Code IRC2015/TPl2014	CSI. TC 0.91 BC 0.97 WB 0.73 Matrix-S	Vert(CT) -C	in (loc) 0.30 30-31 0.40 30-31 0.07 27	l/defl >831 >627 n/a	L/d 480 360 n/a	PLATES MT20 M18AHS Weight: 207 lb	GRIP 244/190 186/179 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP No.1(flat) *Except* 1-11: 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP No.1(flat) *Except* 38-44: 2x4 SP 2400F 2.0E(flat) WEBS 2x4 SP No.3(flat)		BRACING- TOP CHORD BOT CHORD	except	end vertic	als.	ectly applied or 2-2-0 c	
REACTIONS. (size) 36=0-3-8, 44=0-3-0, 27=Mechanical Max Grav 36=0-3-8, 44=0-3-0, 27=Mechanical Max Grav Max Grav 36=2580(LC 1), 44=882(LC 3), 27=9 FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or I TOP CHORD 2-3=-1657/0, 3-4=-2656/0, 4-5=-2656/0, 5-6=-3 8-9=-1847/1026, 9-10=-1847/1026, 10-12=-33 14-15=0/990, 15-16=-1737/301, 16-17=-1737/ 19-20=-3680/0, 20-22=-3680/0, 22-23=-3095/ BOT CHORD 43-44=0/1032, 42-43=0/2262, 41-42=0/2898, -37-39=-1359/1195, 36-37=-2222/0, 35-36=-19 31-32=0/3390, 30-31=0/3680, 29-30=0/3453, i 37-39=-1359/1195, 36-37=-2222/0, 35-36=-19 31-32=0/329/0, 2-43=0/869, 3-43=-841/0, 3-42= 12-36=-1761/0, 12-37=0/1376, 10-37=-1320/0 7-40=-607/0, 14-36=-1926/0, 14-35=0/1531, 1 17-34=-1076/0, 17-32=0/704, 18-32=-702/0, 1 25-28=0/1015, 24-28=-976/0, 24-29=0/682, 2 20-30=-261/42	Pe6(LC 4) less except when shown. 2905/275, 6-7=-2905/275 52/1715, 12-13=0/3388, 1 301, 17-18=-2943/0, 18-1 0, 23-24=-3095/0, 24-25=: 40-41=-275/2905, 39-40= 159/0, 34-35=-601/903, 32 28-29=0/2593, 27-28=0/1 =-47/535, 5-42=-329/137, 1, 10-39=0/1045, 8-39=-88 15-35=-1503/0, 15-34=0/1 8-31=0/868, 19-31=-427/4	3-14=0/3388, 9=-3680/0, -1892/0 -726/2371, 2-34=-42/2479, 162 5-41=-579/28, 36/0, 8-40=0/1252, 204, 0, 25-27=-1492/0,					

NOTES-

44

3x6 =

43

4x4 =

42

3x6 =

41

40

4x4 =

39

4x6 =

38 37

4x6 =

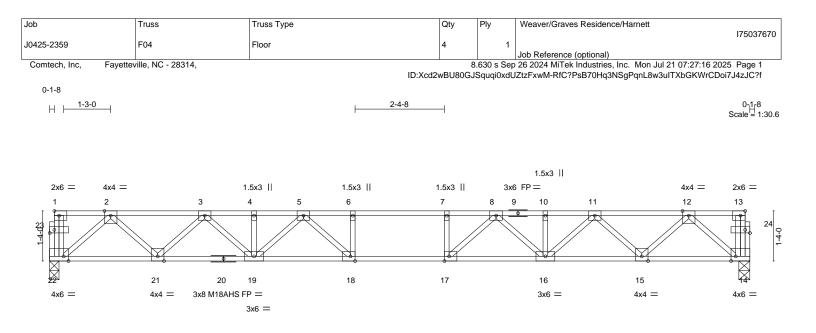
3x6 FP =

- 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) 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) CAUTION, Do not erect truss backwards.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcaccomponents.com)

A MiTek Af 818 Soundside Road Edenton, NC 27932



			18-7-8 18-7-8					
Plate Offsets (X,Y)	[13:0-1-8,Edge], [14:0-1-8,Edge], [17:0-	1-8,Edge], [18:0-1-8,Edge		[23:0-1-8,0-1-	·0], [24:0·	1-8,0-1-0]		
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.75 BC 0.84 WB 0.49 Matrix-S		in (loc) -0.26 18-19 -0.36 18-19 0.07 14	l/defl >833 >620 n/a	L/d 480 360 n/a	PLATES MT20 M18AHS Weight: 100 lb	GRIP 244/190 186/179 FT = 20%F, 11%E
BOT CHORD 2x4 SF	2 No.1(flat) 2 No.1(flat) 2 No.3(flat)		BRACING- TOP CHORE BOT CHORE	except	end verti	cals.	rectly applied or 6-0-0 c or 10-0-0 oc bracing.	oc purlins,
REACTIONS. (siz Max G	e) 22=0-3-0, 14=0-3-8 Grav 22=998(LC 1), 14=998(LC 1)							
TOP CHORD 2-3= 8-10	Comp./Max. Ten All forces 250 (lb) or -1925/0, 3-4=-3157/0, 4-5=-3157/0, 5-6= =-3157/0, 10-11=-3157/0, 11-12=-1925/0 2-0/4178, 10-21=-0/2524	-3796/0, 6-7=-3796/0, 7-8)	3=-3796/0,	0				

BOT CHORD	21-22=0/1178, 19-21=0/2640, 18-19=0/3534, 17-18=0/3796, 16-17=0/3534, 15-16=0/2640,
	14-15=0/1178
WEBS	2-22=-1508/0, 2-21=0/1038, 3-21=-996/0, 3-19=0/702, 5-19=-513/0, 5-18=-40/687,

6-18=-350/0, 12-14=-1508/0, 12-15=0/1038, 11-15=-996/0, 11-16=0/702, 8-16=-513/0, 8-17=-40/687, 7-17=-350/0

NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

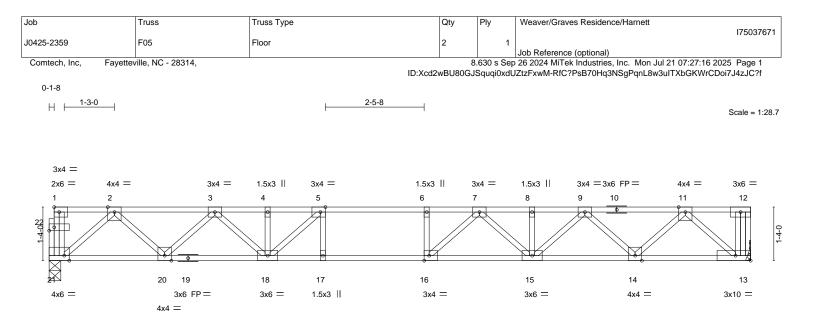
3) All plates are 3x4 MT20 unless otherwise indicated.

4) Plates checked for a plus or minus 1 degree rotation about its center.
5) 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and PCB Building Component Science Michael Component Advancing Component Advancing Component Advancing and PCB and Component Advancing Component Compone and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





			17-5-8 17-5-8				
Plate Offsets (X,Y)	[5:0-1-8,Edge], [16:0-1-8,Edge], [21:0-1						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.83 BC 0.98 WB 0.45 Matrix-S	Vert(CT) -0	in (loc) l/def .27 15-16 >76 .36 15-16 >576 .06 13 n/s	7 480 6 360	PLATES MT20 Weight: 95 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF	P No.1(flat) P No.1(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	except end v	erticals.	rectly applied or 2-2-0 or 2-2-0 oc bracing.	· ·
REACTIONS. (size Max G	e) 21=0-3-8, 13=Mechanical irav 21=934(LC 1), 13=946(LC 1)						
()	Comp./Max. Ten All forces 250 (lb) or 1782/0, 3-4=-2851/0, 4-5=-2851/0, 5-6=	•	2881/0,				

8-9=-2881/0, 9-11=-1778/0 BOT CHORD 20-21=0/1099, 18-20=0/2429, 17-18=0/3308, 16-17=0/3308, 15-16=0/3183, 14-15=0/2432, 13-14=0/1100 WEBS 2-21=-1406(0, 2-20=0/950, 11-13=-1412/0, 11-14=0/944, 9-14=-909/0, 9-15=0/611

WEBS 2-21=-1406/0, 2-20=0/950, 11-13=-1412/0, 11-14=0/944, 9-14=-909/0, 9-15=0/611, 7-15=-410/0, 7-16=-128/525, 6-16=-272/0, 3-20=-900/0, 3-18=0/573, 5-18=-875/0

NOTES-

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

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Refer to girder(s) for truss to truss connections.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

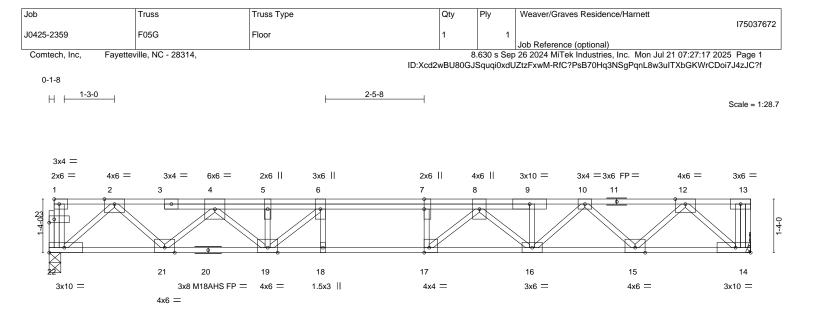
Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

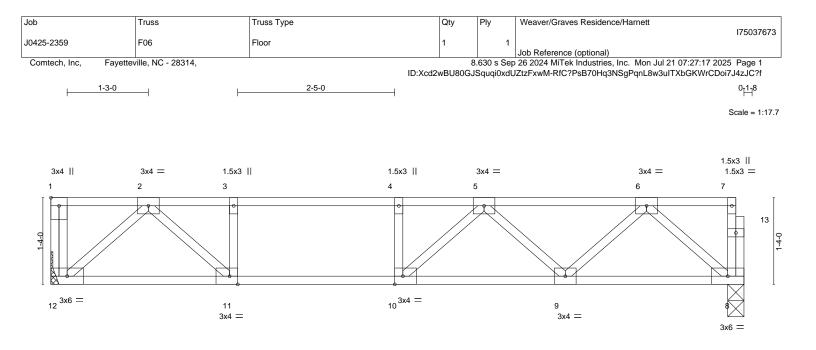
A MiTek Affil 818 Soundside Road Edenton, NC 27932



			17-5-8 17-5-8					
Plate Offsets (X,Y)	[7:0-3-0,0-0-0], [17:0-1-8,Edge], [23:0-1	-8,0-1-0]						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrNOCode IRC2015/TPI2014	CSI. TC 0.47 BC 0.98 WB 0.63 Matrix-S	Vert(CT)	in (loc 0.22 17-1 0.31 17-1 0.07 1	8 >945 8 >676	L/d 480 360 n/a	PLATES MT20 M18AHS Weight: 107 lb	GRIP 244/190 186/179 FT = 20%F, 11%E
	P No.1(flat) P No.3(flat)		BRACING- TOP CHORE BOT CHORE	exce	ept end vert	icals.	rectly applied or 6-0-0 o	oc purlins,
Max G FORCES. (lb) - Max. TOP CHORD 2-4=: 9-10: BOT CHORD 21-2: 14-1 WEBS 2-22: 8-16	 e) 22=0-3-8, 14=Mechanical Brav 22=1152(LC 1), 14=1085(LC 1) Comp./Max. Ten All forces 250 (lb) oi -2306/0, 4-5=-4049/0, 5-6=-4049/0, 6-7= =-3481/0, 10-12=-2095/0 2=0/1352, 19-21=0/3273, 18-19=0/4570 5=0/1273 =-1729/0, 2-21=0/1321, 12-14=-1634/0, =-826/0, 8-17=0/1008, 7-17=-586/0, 4-2 =-955/0 	-4570/0, 7 ⁻ 8=-4570/0, 8-§ , 17-18=0/4570, 16-17=0/ 12-15=0/1144, 10-15=-11	9=-3485/0, 4103, 15-16=0/2886 00/0, 10-16=0/809,	5,				
 2) All plates are MT20 3) Plates checked for a 4) Refer to girder(s) fo 5) Recommend 2x6 sti Strongbacks to be a 6) CAUTION, Do not e 7) Hanger(s) or other of chord. The design/s 8) In the LOAD CASE(LOAD CASE(S) Stan 1) Dead + Floor Live (I Uniform Loads (plf) 	connection device(s) shall be provided s selection of such connection device(s) is (S) section, loads applied to the face of t dard balanced): Lumber Increase=1.00, Plate =-10, 1-13=-100 s (lb)	ts center. The cand fastened to each tr strained by other means. Ifficient to support concer the responsibility of other he truss are noted as fron	ntrated load(s) 394 I rs.	,			SEL 0360	S22

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTP11 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcaccomponents.com) July 21,2025





L						10-8-0						
						10-8-0						
Plate Offsets	(X,Y)	[1:Edge,0-1-8], [10:0-1-8	,Edge], [11:0-1	-8,Edge]								
TCDL 10	osf) 0.0 0.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 YES	BC 0	.71 .61 .36	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.15 -0.19 0.01	9-10	l/defl >860 >655 n/a	L/d 480 360 n/a	PLATES MT20	GRIP 244/190
	5.0	Code IRC2015/T		Matrix-S		()					Weight: 56 lb	FT = 20%F, 11%E
LUMBER- TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP 2x4 SP	No.1(flat) No.1(flat) No.3(flat) e) 12=Mechanical, 8=0 rav 12=573(LC 1), 8=56				BRACING- TOP CHOF BOT CHOF	RD	except	end vert	icals.	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
FORCES. (I TOP CHORD BOT CHORD WEBS) 2-3=-) 11-12	Comp./Max. Ten All fo 1123/0, 3-4=-1123/0, 4-5 =0/576, 10-11=0/1123, 9 -767/0, 2-11=0/761, 3-1	5=-1123/0, 5-6= 9-10=0/1172, 8-	-922/0 -9=0/599		3/0						

NOTES-

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

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Refer to girder(s) for truss to truss connections.

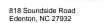
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

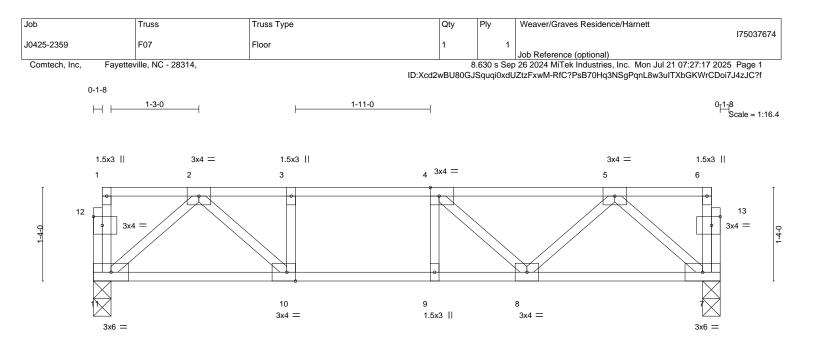
Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)





F			8-11-0 8-11-0						
Plate Offsets (X,Y)	[4:0-1-8,Edge], [10:0-1-8,Edge], [12:0-1	8,0-1-8], [13:0-1-8,0-1-8]							
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.36 BC 0.44 WB 0.24	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.06 -0.07 0.01	(loc) 8-9 8-9 7	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20	GRIP 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		0.01	•	1.70	1.04	Weight: 48 lb	FT = 20%F, 11%E
BOT CHORD 2x4 SF WEBS 2x4 SF REACTIONS. (siz	,		BRACING- TOP CHOR BOT CHOR	D	except	end vert	icals.	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
FORCES. (Ib) - Max. TOP CHORD 2-3=	Grav 11=470(LC 1), 7=470(LC 1) Comp./Max. Ten All forces 250 (lb) or -818/0, 3-4=-818/0, 4-5=-691/0 1=0/468, 9-10=0/818, 8-9=0/818, 7-8=0/								

WEBS 2-11=-618/0, 2-10=0/498, 5-7=-663/0, 5-8=0/266

NOTES-

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

2) Plates checked for a plus or minus 1 degree rotation about its center.

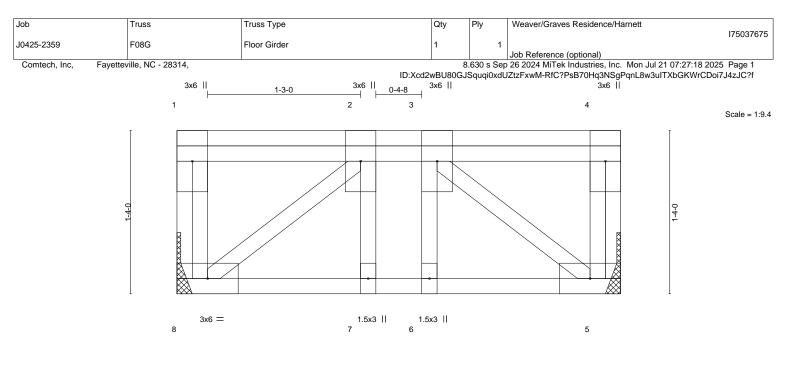
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)





3x6 =

	<u>3-7-8</u> 3-7-8													
LOADING TCLL	(psf) 40.0	SPACING- Plate Grip DOL	2-0-0 1.00	CSI.	0.10	DEFL. Vert(LL)	in -0.00	(loc) 7	l/defl >999	L/d 480	PLATES MT20	GRIP 244/190		
TCDL BCLL	10.0 0.0	Lumber DOL Rep Stress Incr	1.00 NO	BC WB	0.14 0.13	Vert(CT) Horz(CT)	-0.01 0.00	7 5	>999 n/a	360 n/a				
BCDL	5.0	Code IRC2015/TF		Matrix			0.00				Weight: 29 lb	FT = 20%F, 11%E		

LUMBER-

TOP CHORD2x4 SP No.1(flat)BOT CHORD2x4 SP No.1(flat)WEBS2x4 SP No.3(flat)

BRACING-TOP CHORD

 TOP CHORD
 Structural wood sheathing directly applied or 3-7-8 oc purlins, except end verticals.

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

REACTIONS. (size) 8=Mechanical, 5=Mechanical Max Grav 8=457(LC 1), 5=387(LC 1)

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

TOP CHORD 2-3=-429/0

BOT CHORD 7-8=0/429, 6-7=0/429, 5-6=0/429

WEBS 3-5=-548/0, 2-8=-548/0

NOTES-

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

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Refer to girder(s) for truss to truss connections.

4) 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.

5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 505 lb down at 1-10-4 on top

chord. The design/selection of such connection device(s) is the responsibility of others.

6) 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

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

Uniform Loads (plf)

Vert: 5-8=-10, 1-4=-100 Concentrated Loads (Ib) Vert: 2=-473(F)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Edenton, NC 27932

Job	T	russ					Truss 1	уре							Qty	F	Ply	W	eaver/0	Graves	Resid	dence/	Harne	tt			170	007070
J0425-2359	ĸ	W1					Floor S	upporte	ed Ga	able					1			1									1/5	037676
																			Refer									
Comtech, Inc, Fa	yettevill	e, NC ·	- 283	14,									ID	:Xcd2\	vBU80												2025 Pag Doi7J4zJ	
0-1-8 H																											0-1 H	-8
																											Scale	= 1:66.5
									3x6 F							276	FP =											
1 2 3	4	5	6	7	8	9	10		12		115	16	17	18	19		1 22	23	24	2569	26	27	28	29	30	31	32 33	
	-	1	1	1	P	8	-	-	p -	8		0	•	-	f	8 3	⊏ a	-	-	8		-	-	•	P	6		68
								****												****						~~~~		68
66 65 64	63	62	61	60	59	58	57	56 55	54	53	52	51	50	49	48	47	46	45	4443	42	41	40	39	38	37	36	35 34	
3x4 =								3x6 F	-Р=								3x6 F	P =									3x4	=

			39-8-8			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrNOCode IRC2015/TPI2014	CSI. TC 0.30 BC 0.01 WB 0.08 Matrix-R	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	a - n/a 999 a - n/a 999	PLATES MT20 Weight: 170 lb	GRIP 244/190 FT = 20%F, 11%E
	4 SP No.1(flat) 4 SP No.1(flat)	1	BRACING- TOP CHORD	Structural wood sheathing di except end verticals.	irectly applied or 6-0-0 o	oc purlins,

BOT CHORD

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

39-8-8

2x4 SP No.1(flat)
2x4 SP No.1(flat)
2x4 SP No.3(flat)
2x4 SP No.3(flat)

REACTIONS. All bearings 39-8-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 66, 34, 65, 64, 63, 62, 61, 60, 59, 58, 57, 56, 54, 53, 52, 51, 50, 49, 48, 47, 46, 44, 41, 40, 39, 38, 37, 36, 35 except 43=254(LC 1), 42=376(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 25-42=-363/0

WEBS

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.

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 287 lb down at 28-10-12 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

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

Uniform Loads (plf) Vert: 34-66=-10, 1-33=-100 Concentrated Loads (lb) Vert: 69=-287(F)





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **PCB Building Component Scietur Information**. Building from the Structure Building Component Advance interpretented and the properties of th and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

818 Soundside Road Edenton, NC 27932

Job		Truss	5				Truss 7	уре						Qty	P	Ŋ	Wea	ver/G	iraves	Resid	ence/	Harne	tt			170	007077
J0425-2359		KW2					Floor S	upported	Gable					1		1			,		N					1/5	037677
Comtech, Inc,	Fayette	eville, N	C - 283	314,								ID):Xcd2v	wBU8(p 26 20)24 M	iTek l		ies, In					2025 Pag Doi7J4zJ	
0-1-8																1- 1					40.00	3. 1				0-1	
																										Scale	= 1:66.5
								3x6	FP =						3x6	FP =											
1 2	3 4	5	6	7	8	9	10	11 12	13	1415	16	17	18	19	202	1 22	23	24	25	26	27	28	29	30	31	32 33	
																											68 4-
66 65	64 63	62	61	60	59	58	57	56 55 54	53	52	51	50	49	48	47	46	45 44	43	42	41	40	39	38	37	36	35 34	

3x6 FP =

		I	39-8-8				T	
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.06 BC 0.01 WB 0.03		in (loc) /a - /a - 00 34	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
	Code IRC2015/TPI2014 No.1(flat) No.1(flat)	Matrix-R	BRACING- TOP CHORD		ural wood	0	Weight: 170 lb	FT = 20%F, 11%E

BOT CHORD

39-8-8

2x4 SP No.1(flat)
2x4 SP No.1(flat)
2x4 SP No.3(flat)
2x4 SP No.3(flat)

3x4 =

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

REACTIONS. All bearings 39-8-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 66, 34, 65, 64, 63, 62, 61, 60, 59, 58, 57, 56, 54, 53, 52, 51, 50, 49, 48, 47, 46, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35

3x6 FP =

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.



 $3x4 \equiv$

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and PCB Building Component Science Michael Component Advancing Component Advancing Component Advancing and PCB and Component Advancing Component Compone and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



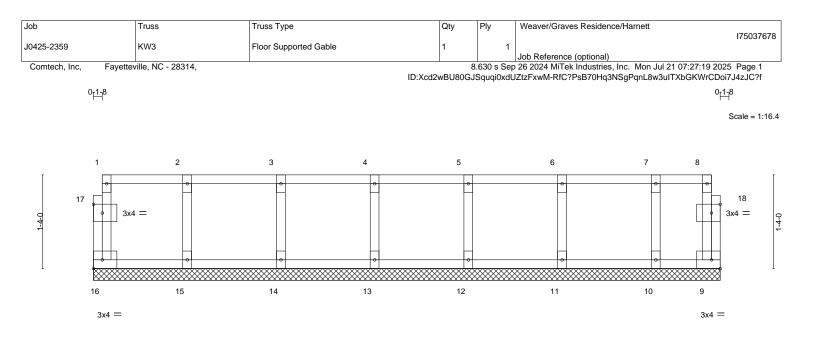


Plate Offsets (X,Y)	[17:0-1-8,0-1-8], [18:0-1-8,0-1-8]		8-11-0 8-11-0			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.06 BC 0.01 WB 0.03 Matrix-R	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	n - n/a 999 n - n/a 999	PLATES MT20 Weight: 42 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SP	No.1(flat) No.1(flat) No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied or) oc purlins,

REACTIONS. All bearings 8-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

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

NOTES-

OTHERS

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.

2x4 SP No.3(flat)

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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Edenton, NC 27932

