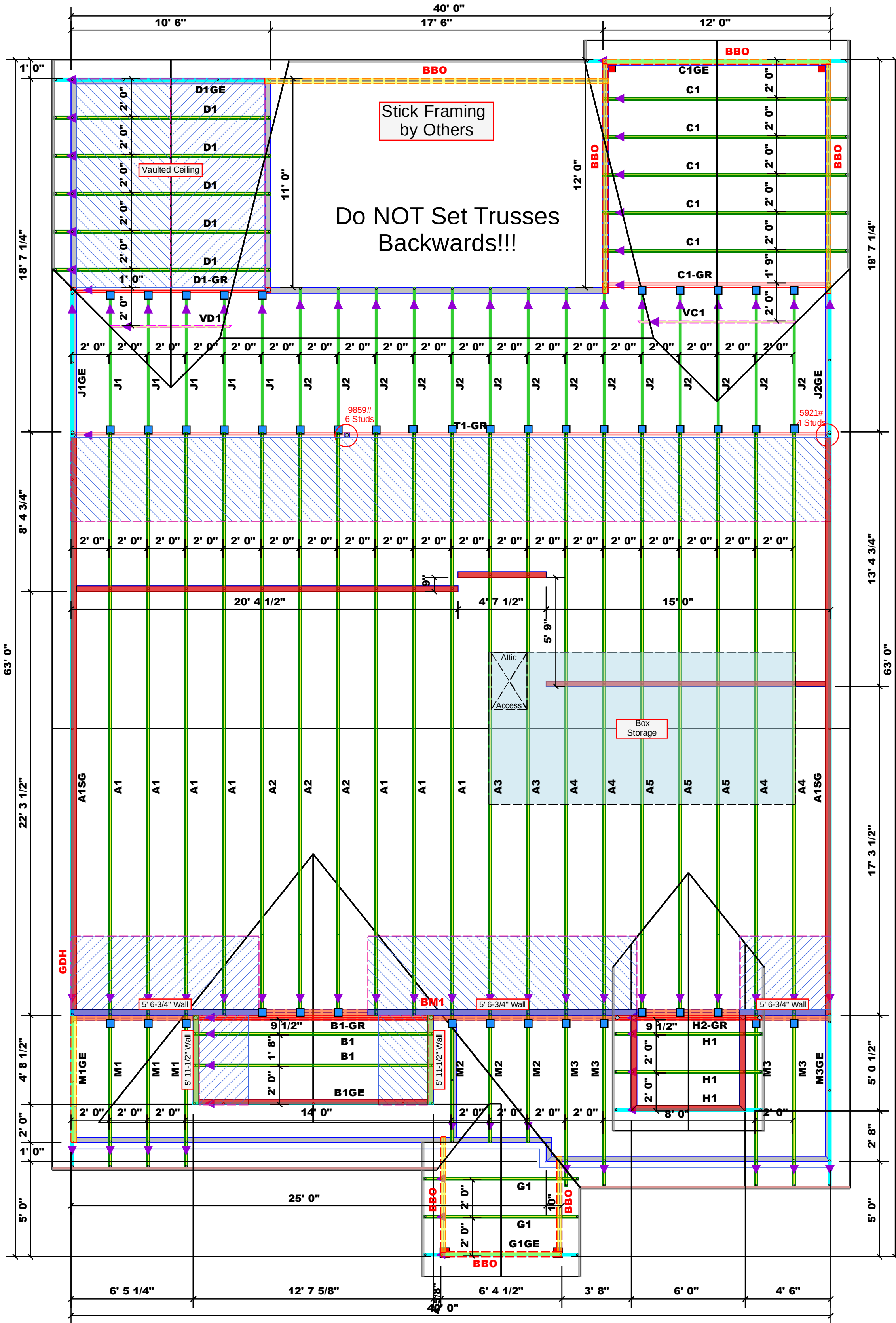




All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.
-- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

All Headers Are Considered 2X10 Beams Unless Otherwise Noted

All Walls Shown Are Considered Load Bearing

Roof Area = 3073.25 sq.ft.
Ridge Line = 115.06 ft.
Hip Line = 0 ft.
Horiz. OH = 183.19 ft.
Raked OH = 217.93 ft.
Decking = 106 sheets

Dimension Notes
1. All exterior wall to wall dimensions are to face of stud unless noted otherwise
2. All interior wall dimensions are to face of stud unless noted otherwise
3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

Hatch Legend
5' 6-3/4" Walls
5' 11-1/2" Walls
Second Floor Walls
Vaulted Ceiling
Box Storage
Drop Beam
Flush Beam

Connector Information				Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header / Truss
■	HUS26	USP	45	NA	16d/3-1/2" 16d/3-1/2"

1 Truss Placement Plan
Scale: 1/4" = 1'

▲ = Denotes Left End of Truss
(Reference Engineered Truss Drawing)

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (2))
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADERS/ROOF

END REACTOR (UP TO)	END REACTOR (UP TO)	END REACTOR (UP TO)
1700	2550	3400
3400	5100	6800
5100	7650	10200
6800	10200	13600
8500	12750	17000
10200	15300	
11900		
13600		
15300		

BUILDER	New Home, Inc.
JOB NAME	Lot 195 Ballard Road
PLAN	The Guilford - Georgian Alt., 2GLS
SEAL DATE	04/01/23
QUOTE #	
JOB #	J0425-2108

CITY / CO.	Fuquay-Varina / Harnett
ADDRESS	1949 Ballard Road
MODEL	Roof
DATE REV.	05/06/25
DRAWN BY	Jonathan Landry
SALES REP.	Jonathan Landry

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult EC-30-B1 and BC-30-B3 provided with the truss delivery package or online @ sbcindustry.com

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature Jonathan Landry
Jonathan Landry



ROOF & FLOOR
TRUSSES & BEAMS

Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

RE: J0425-2108
Lot 195 Ballard Road

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: New Homes, Inc. Project Name: J0425-2108
Lot/Block: 195 Model: The Guilford
Address: 1949 Ballard Road Subdivision: Ballard Road
City: Fuquay-Varina State: NC

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.6
Wind Code: ASCE 7-16 Wind Speed: 150 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 31 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I72948411	A1	4/23/2025	21	I72948431	J1GE	4/23/2025
2	I72948412	A1SG	4/23/2025	22	I72948432	J2	4/23/2025
3	I72948413	A2	4/23/2025	23	I72948433	J2GE	4/23/2025
4	I72948414	A3	4/23/2025	24	I72948434	M1	4/23/2025
5	I72948415	A4	4/23/2025	25	I72948435	M1GE	4/23/2025
6	I72948416	A5	4/23/2025	26	I72948436	M2	4/23/2025
7	I72948417	B1	4/23/2025	27	I72948437	M3	4/23/2025
8	I72948418	B1-GR	4/23/2025	28	I72948438	M3GE	4/23/2025
9	I72948419	B1GE	4/23/2025	29	I72948439	T1-GR	4/23/2025
10	I72948420	C1	4/23/2025	30	I72948440	VC1	4/23/2025
11	I72948421	C1-GR	4/23/2025	31	I72948441	VD1	4/23/2025
12	I72948422	C1GE	4/23/2025				
13	I72948423	D1	4/23/2025				
14	I72948424	D1-GR	4/23/2025				
15	I72948425	D1GE	4/23/2025				
16	I72948426	G1	4/23/2025				
17	I72948427	G1GE	4/23/2025				
18	I72948428	H1	4/23/2025				
19	I72948429	H2-GR	4/23/2025				
20	I72948430	J1	4/23/2025				

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

Truss Design Engineer's Name: Galinski, John

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

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



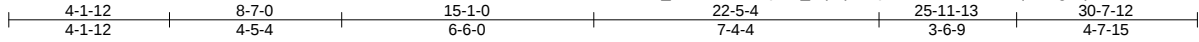
April 23, 2025

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road	172948411
J0425-2108	A1	ROOF SPECIAL	7	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:05 2025 Page 1

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8x8 =

Scale = 1:59.4

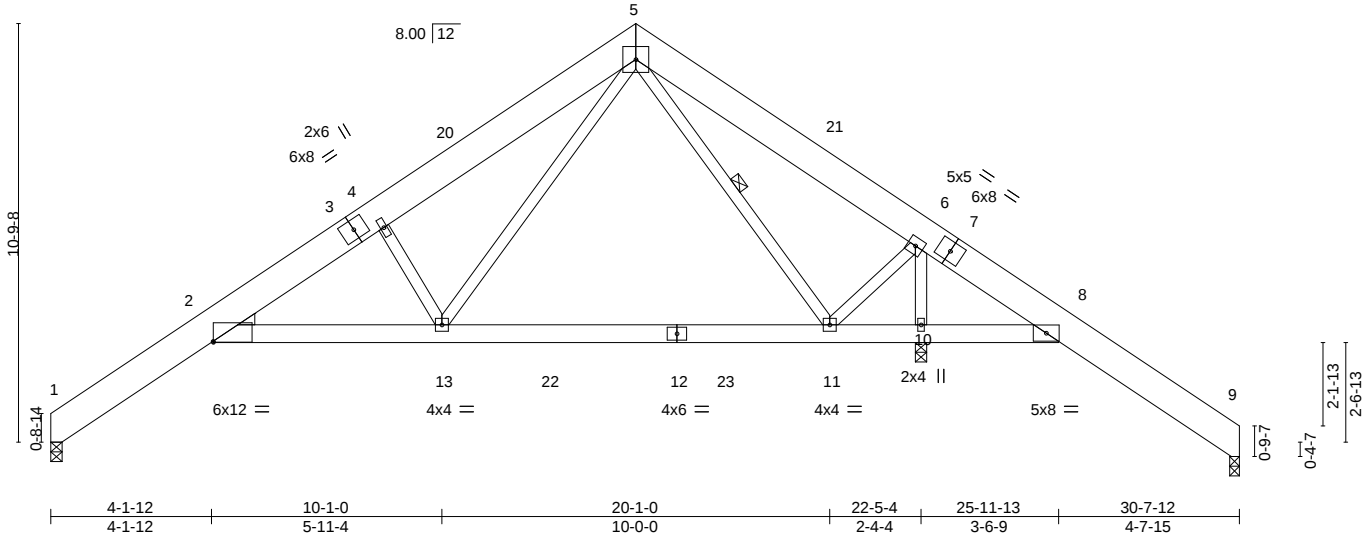


Plate Offsets (X,Y)--		[2:0-0-1,0-0-4]									
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.88	Vert(LL)	-0.16	13-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.32	13-16	>836	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.21	10	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matrix-AS	Wind(LL)	0.17	13-16	>999	240	Weight: 237 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-11

REACTIONS.

(size) 1=0-3-8, 9=0-3-0, 10=0-3-8
Max Horz 1=-328(LC 8)
Max Uplift 1=-137(LC 12), 9=-109(LC 8), 10=-193(LC 12)
Max Grav 1=899(LC 19), 9=125(LC 11), 10=1817(LC 19)

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

TOP CHORD 1-2=-639/249, 2-4=-1704/477, 4-5=-1685/558, 6-8=-150/1099
BOT CHORD 2-13=-294/1899, 11-13=-70/563, 10-11=-884/317, 8-10=-884/317
WEBS 6-10=-1842/446, 5-11=-872/235, 6-11=-92/1446, 5-13=-352/1565, 4-13=-972/435

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-9-14, Interior(1) 4-9-14 to 15-1-0, Exterior(2R) 15-1-0 to 19-5-13, Interior(1) 19-5-13 to 30-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=137, 9=109, 10=193.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 23, 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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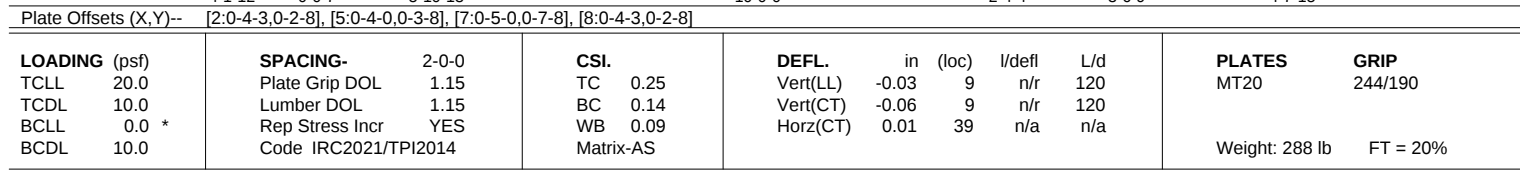
818 Soundside Road
Edenton, NC 27932

Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:06 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwRCDoi7J4zJC?f

4-1-12 8-7-0 15-1-0 22-5-4 25-11-13 30-7-12
4-1-12 4-5-4 6-6-0 7-4-4 3-6-9 4-7-15

8x8 = Scale = 1:57.6



REACTIONS. All bearings 21-9-10.
 (lb) - Max Horz 2=-407(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 21, 22 except 2=-346(LC 12), 8=-419(LC 13), 11=-346(LC 13),
 13=-136(LC 13), 20=-330(LC 12), 10=-192(LC 26)
 Max Grav All reactions 250 lb or less at joint(s) 13, 17, 18, 19, 21, 22, 15, 14, 12 except 2=617(LC 1),
 8=630(LC 20), 11=439(LC 20), 20=469(LC 19), 10=265(LC 13), 2=617(LC 1), 8=614(LC 1)

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

TOP CHORD	2-4=-315/215, 4-5=-224/270
BOT CHORD	2-22=-129/305, 21-22=-129/305, 20-21=-129/305, 19-20=-93/329, 18-19=-93/329, 17-18=-93/329, 15-17=-93/329, 14-15=-93/329, 13-14=-93/329, 12-13=-62/309, 11-12=-62/309, 10-11=-62/309, 8-10=-62/309
WEBS	6-11=-275/194, 4-20=-360/318

- NOTES-**

 - 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-11 to 4-9-14, Interior(1) 4-9-14 to 15-1-0, Exterior(2R) 15-1-0 to 19-5-13, Interior(1) 19-5-13 to 30-6-8 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) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 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, with BC DL = 10.0psf.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 22 except (jt=lb) 2=346, 8=419, 11=346, 13=136, 20=330, 10=192, 2=346, 8=419.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



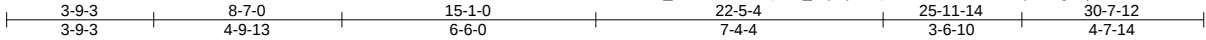
April 23, 2025

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road	172948413
J0425-2108	A2	ROOF SPECIAL	3	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:06 2025 Page 1

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8x8 =

Scale = 1:59.0

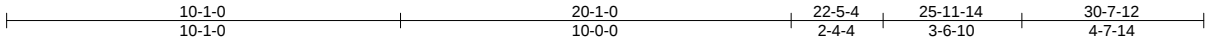
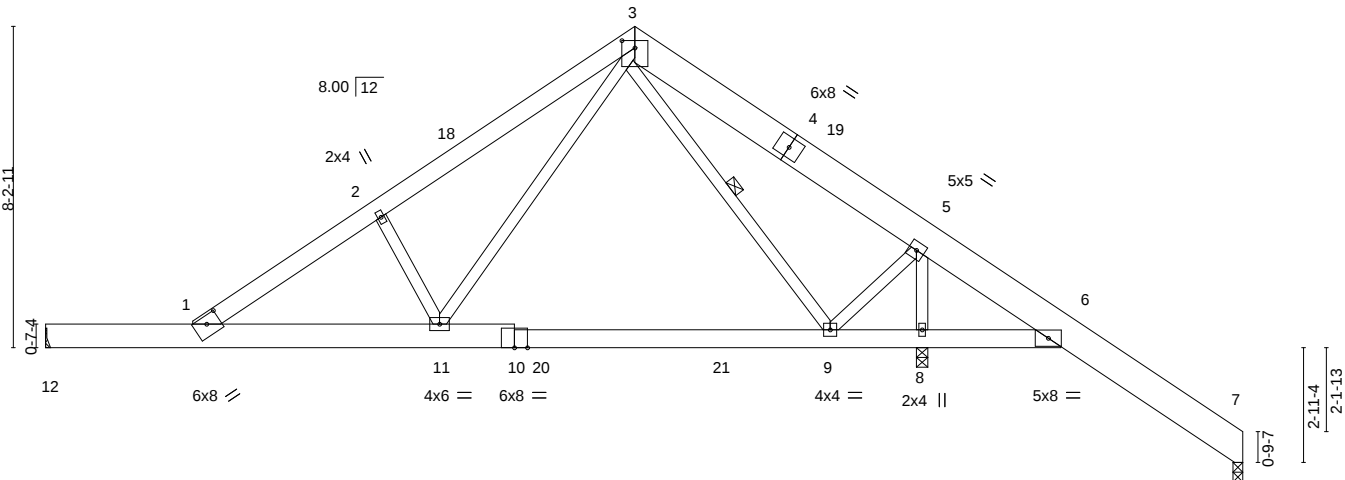


Plate Offsets (X,Y)--		[1:0-4-0,0-2-6], [3:0-4-0,0-2-4]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.24 11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.44 11-13	>613	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	-0.03 7	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matrix-AS		Wind(LL)	0.18 11-13	>999	240	Weight: 214 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP No.1 *Except*
1-3: 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E *Except*
10-12: 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-9

REACTIONS.

(size) 7=0-3-0, 12=Mechanical, 8=0-3-8
Max Horz 12=-330(LC 8)
Max Uplift 7=-124(LC 27), 12=-54(LC 12), 8=-210(LC 13)
Max Grav 7=84(LC 26), 12=917(LC 19), 8=1918(LC 20)

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

TOP CHORD 1-2=-1608/459, 2-3=-1568/546, 3-5=-62/306, 5-6=-187/1211
BOT CHORD 1-12=-299/330, 1-11=-200/1594, 9-11=-71/531, 8-9=-1053/347, 6-8=-1053/347
WEBS 3-11=-340/1502, 2-11=-562/361, 3-9=-991/242, 5-9=-103/1456, 5-8=-1878/468

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 3-7-13 to 8-0-10, Interior(1) 8-0-10 to 15-1-0, Exterior(2R) 15-1-0 to 19-5-13, Interior(1) 19-5-13 to 30-6-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 7=124, 8=210.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 23,2025

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 BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

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TRENCO
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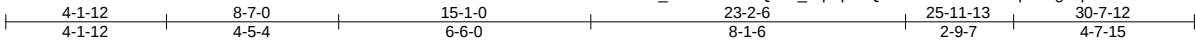
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	A3	ROOF SPECIAL	2	1	172948414

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:07 2025 Page 1

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8x8 =

Scale = 1:59.4

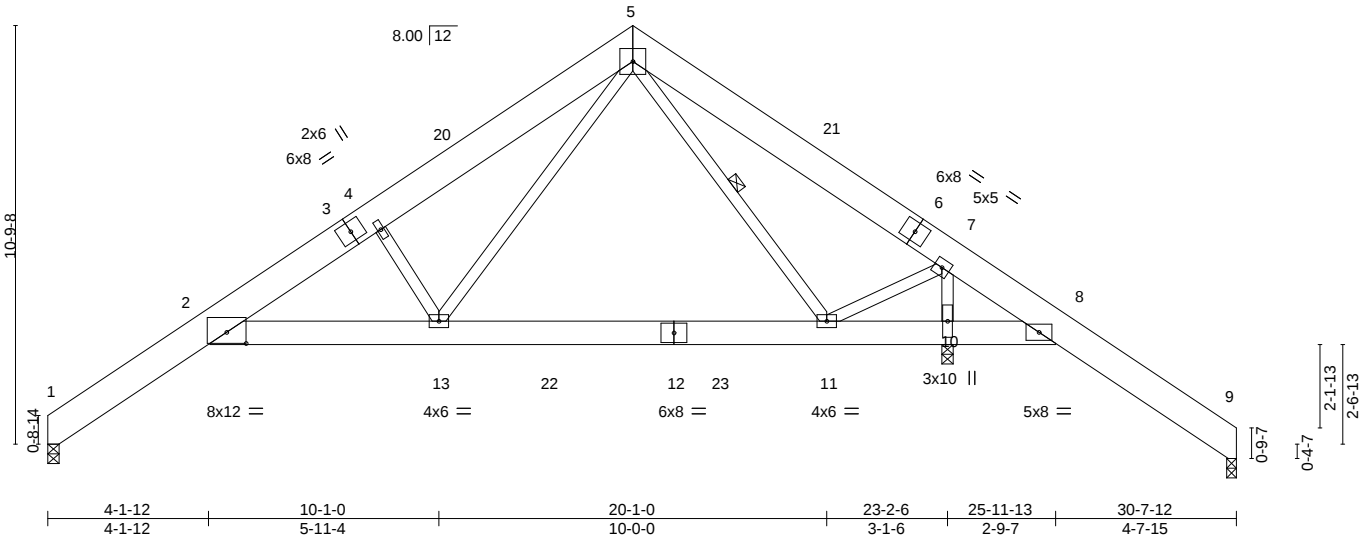


Plate Offsets (X,Y)--		[2:0-6-0,0-3-7]							
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15		TC 0.95		Vert(LL) -0.17 13-16 >999 360		MT20	244/190
TCDL 10.0		Lumber DOL 1.15		BC 0.48		Vert(CT) -0.34 13-16 >824 240			
BCLL 0.0 *		Rep Stress Incr YES		WB 0.46		Horz(CT) 0.22 10 n/a n/a			
BCDL 10.0		Code IRC2021/TPI2014		Matrix-AS		Wind(LL) 0.18 13-16 >999 240		Weight: 251 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-11

REACTIONS.

(size) 1=0-3-8, 9=0-3-0, 10=0-3-8
Max Horz 1=-328(LC 8)
Max Uplift 1=-141(LC 12), 9=-106(LC 8), 10=-184(LC 12)
Max Grav 1=961(LC 19), 9=116(LC 11), 10=1763(LC 19)

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

TOP CHORD 1-2=-671/251, 2-4=-1910/520, 4-5=-1880/593, 5-7=-485/230, 7-8=-127/1052
BOT CHORD 2-13=-308/2050, 11-13=-62/691, 10-11=-868/272, 8-10=-868/272
WEBS 7-10=-1693/468, 5-11=-624/198, 7-11=-81/1451, 5-13=-353/1627, 4-13=-913/416

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 15-1-0, Exterior(2R) 15-1-0 to 19-5-13, Interior(1) 19-5-13 to 30-6-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=141, 9=106, 10=184.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 23,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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ENGINEERING BY
TRENCO
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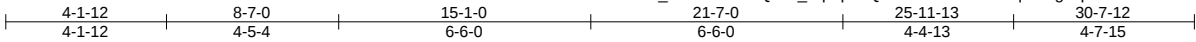
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	A4	ROOF SPECIAL	4	1	172948415
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

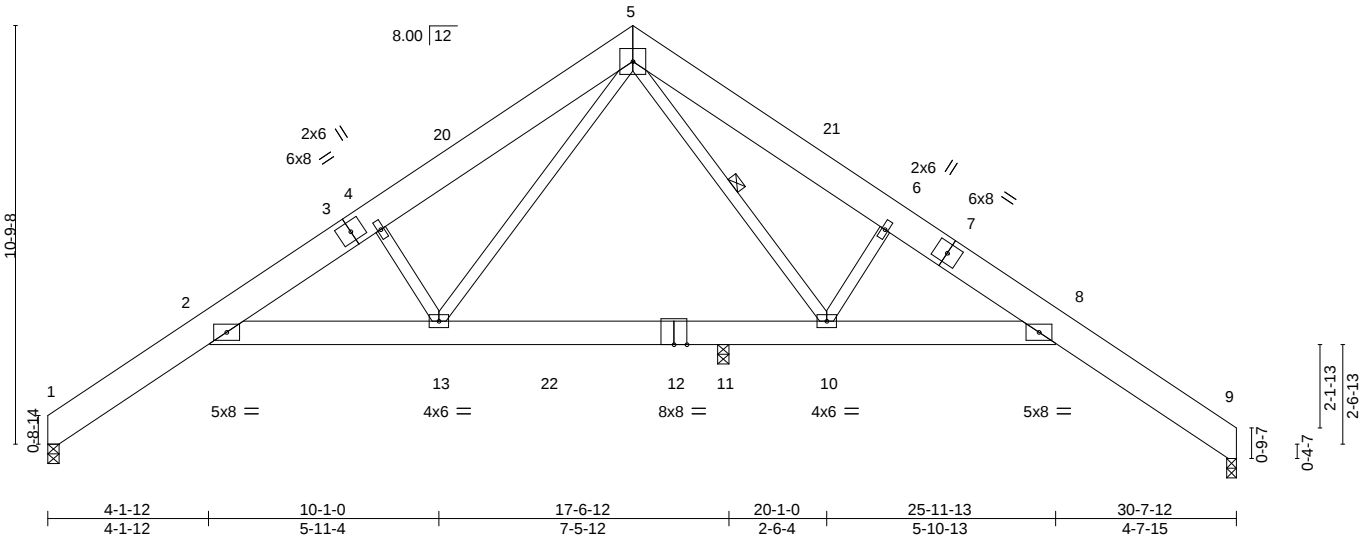
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:07 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



8x8 =

Scale = 1:59.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	-0.13 13-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.78	Vert(CT)	-0.26 13-16	>793	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.25 9	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-AS	Wind(LL)	0.15 13-16	>999	240		
Weight: 248 lb									FT = 20%

LUMBER-

TOP CHORD 2x10 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-10

REACTIONS.

(size) 1=0-3-8, 9=0-3-0, 11=0-3-8
Max Horz 1=-328(LC 8)
Max Uplift 1=-106(LC 12), 9=-142(LC 13), 11=-183(LC 12)
Max Grav 1=621(LC 19), 9=437(LC 20), 11=1774(LC 19)

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

TOP CHORD 1-2=-507/278, 2-4=-689/274, 4-5=-659/345, 5-6=-627/705, 6-8=-73/560
BOT CHORD 2-13=-327/1011
WEBS 5-10=-1090/193, 6-10=-834/433, 5-13=-221/765, 4-13=-904/427

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 15-1-0, Exterior(2R) 15-1-0 to 19-5-13, Interior(1) 19-5-13 to 30-6-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=106, 9=142, 11=183.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 23,2025

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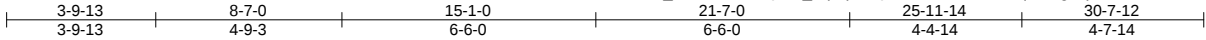
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	A5	ROOF SPECIAL	3	1	172948416
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:08 2025 Page 1

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8x8 =

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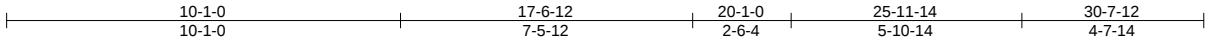
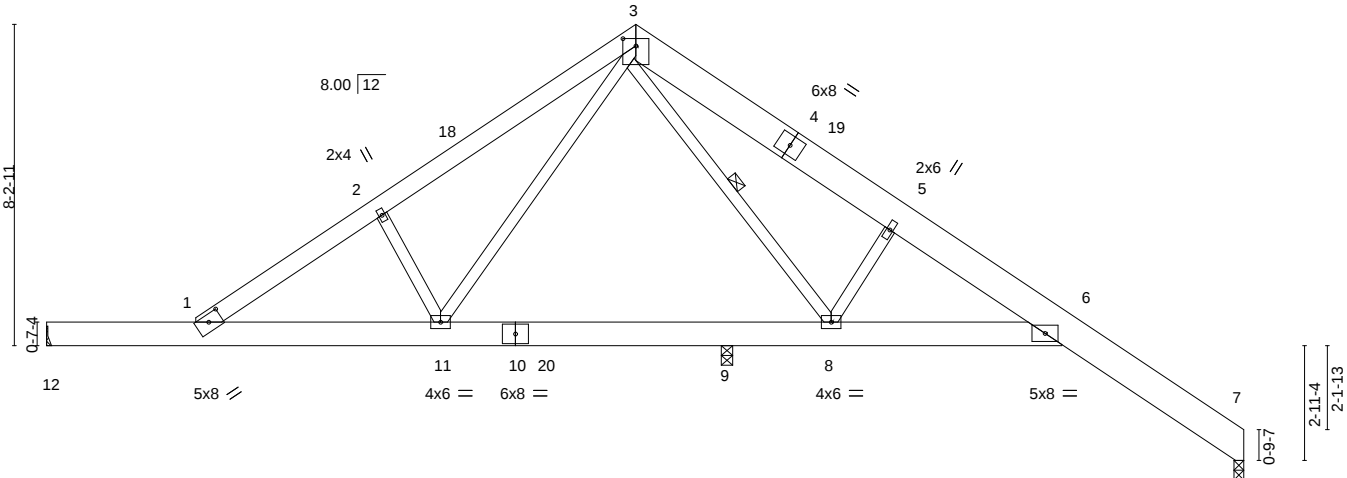


Plate Offsets (X,Y)--		[1:0-4-0,0-2-3], [3:0-4-0,0-2-4]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL)	-0.21 11-13	>969	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.85	Vert(CT)	-0.40 11-13	>524	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Horz(CT)	0.10 7	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-AS	Wind(LL)	0.17 11-13	>999	240	Weight: 221 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP No.1 *Except*
1-3: 2x6 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-8

REACTIONS.

(size) 7=0-3-0, 12=Mechanical, 9=0-3-8
Max Horz 12=-330(LC 8)
Max Uplift 7=-118(LC 13), 12=-33(LC 12), 9=-165(LC 13)
Max Grav 7=377(LC 26), 12=617(LC 19), 9=1861(LC 20)

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

TOP CHORD 1-2=-526/243, 2-3=-472/331, 3-5=0/910, 5-6=-24/758
BOT CHORD 1-12=-299/330, 1-11=-260/685, 9-11=-242/271, 8-9=-242/271, 6-8=-446/155
WEBS 3-11=-161/640, 2-11=-589/369, 3-8=-1269/228, 5-8=-802/440

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 3-7-13 to 8-0-10, Interior(1) 8-0-10 to 15-1-0, Exterior(2R) 15-1-0 to 19-5-13, Interior(1) 19-5-13 to 30-6-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 7=118, 9=165.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 23,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	B1	ROOF SPECIAL	2	1	172948417
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:08 2025 Page 1

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8x8 =

Scale = 1:33.1

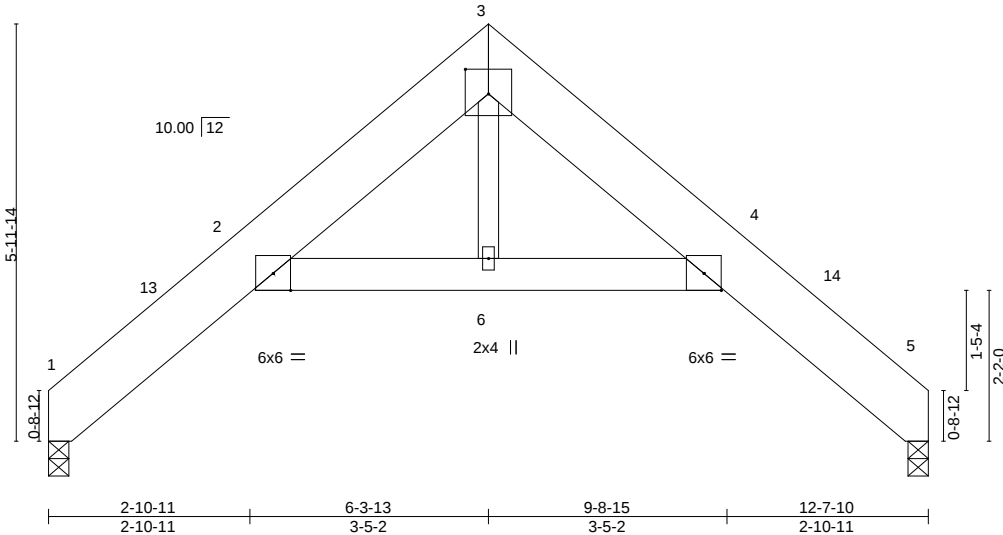


Plate Offsets (X,Y)--	[3:0-4-0,0-4-4]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.35	Vert(LL)	-0.04 6-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	-0.09 6-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.13 5	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-AS	Wind(LL)	0.06 6-9	>999	240	Weight: 87 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 1=0-3-8, 5=0-3-8
Max Horz 1=-164(LC 8)
Max Uplift 1=-62(LC 12), 5=-66(LC 13)
Max Grav 1=521(LC 1), 5=514(LC 1)

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

TOP CHORD 1-2=-378/339, 2-3=-658/476, 3-4=-661/497, 4-5=-362/317
BOT CHORD 2-6=-93/599, 4-6=-93/599
WEBS 3-6=-190/345

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 6-3-13, Exterior(2R) 6-3-13 to 10-8-10, Interior(1) 10-8-10 to 12-5-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	B1-GR	ROOF SPECIAL	1	2	I72948418

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:09 2025 Page 1

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8x8 =

Scale = 1:33.1

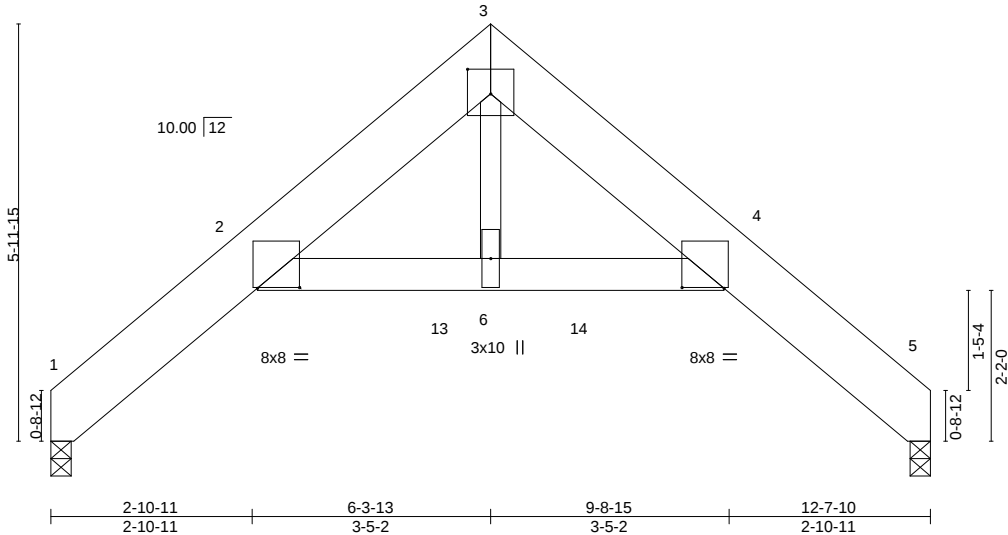


Plate Offsets (X,Y)--		[2:0-7-4,0-0-2], [3:0-4-0,0-4-4], [4:0-7-4,0-0-2]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15		TC 0.88		Vert(LL) -0.10	6-9	>999	360	MT20	244/190
TCDL 10.0		Lumber DOL 1.15		BC 0.49		Vert(CT) -0.19	6-9	>799	240		
BCLL 0.0 *		Rep Stress Incr NO		WB 0.26		Horz(CT) 0.26	5	n/a	n/a		
BCDL 10.0		Code IRC2021/TPI2014		Matrix-MP		Wind(LL) 0.07	6-9	>999	240	Weight: 175 lb	FT = 20%

LUMBER-

TOP CHORD 2x10 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 1=0-3-8, 5=0-3-8
Max Horz 1=-164(LC 25)
Max Uplift 1=-171(LC 8), 5=-152(LC 9)
Max Grav 1=1842(LC 2), 5=1538(LC 2)

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

TOP CHORD 1-2=-1220/213, 2-3=-2624/241, 3-4=-2777/297, 4-5=-971/147
BOT CHORD 2-6=-166/2525, 4-6=-166/2525
WEBS 3-6=-160/2123

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=171, 5=152.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 825 lb down and 71 lb up at 3-7-8, and 822 lb down and 74 lb up at 5-7-8, and 822 lb down and 74 lb up at 7-7-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-86, 3-8=-60, 3-4=-60, 4-5=-86, 7-10=-20



April 23,2025

Continued on page 2

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A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	B1-GR	ROOF SPECIAL	1	2	172948418
					Job Reference (optional)

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 9=-752(B) 13=-749(B) 14=-749(B)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	B1GE	GABLE	1	1	172948419
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:09 2025 Page 1

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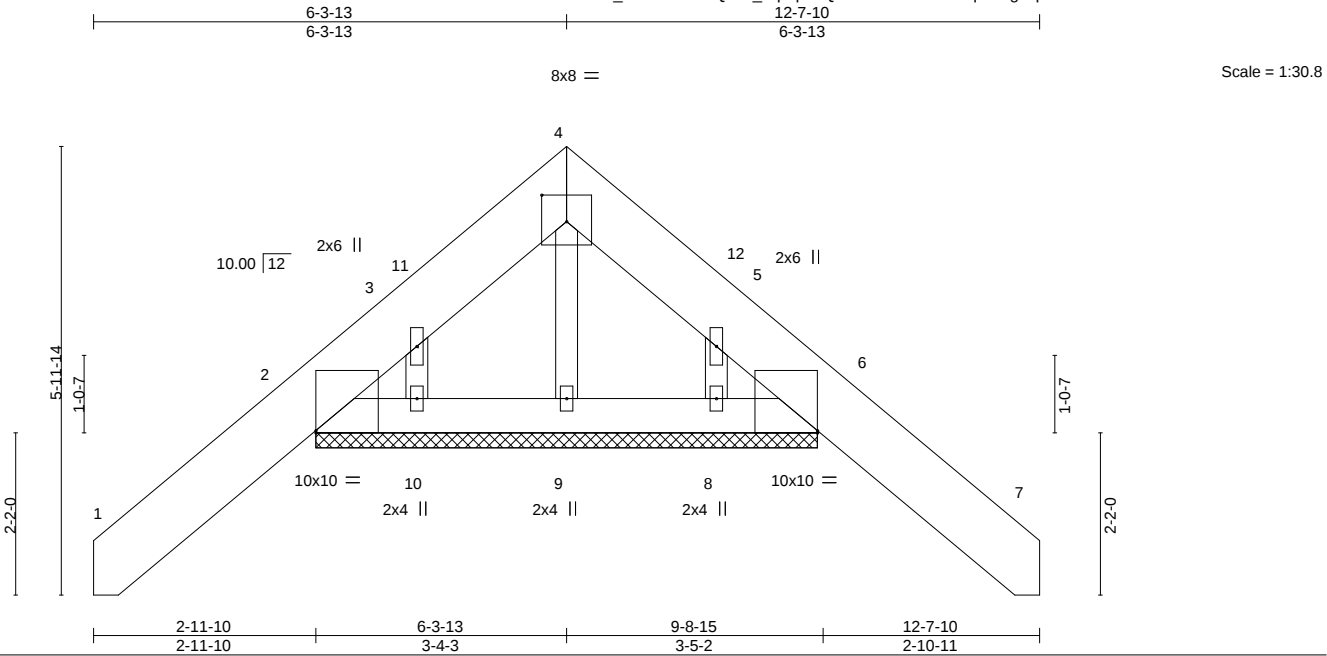


Plate Offsets (X,Y)--		[2:Edge,0-0-6], [4:0-4-0,0-4-4], [6:Edge,0-0-6]			
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	in (loc) l/defl L/d	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(LL) -0.01 7 n/r 120	GRIP 244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Vert(CT) -0.01 7 n/r 120	
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P	Horz(CT) 0.00 6 n/a n/a	Weight: 90 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x10 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 6-8-6.
 (lb) - Max Horz 2=-205(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 8 except 2=-296(LC 12), 6=-330(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 9, 10, 8 except 2=414(LC 1), 6=415(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-183/422, 5-6=-212/475
 BOT CHORD 2-10=-82/429, 9-10=-106/418, 8-9=-106/418, 6-8=-113/448
 WEBS 3-10=-387/83, 5-8=-400/83

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-2-0 to 4-6-13, Exterior(2N) 4-6-13 to 6-3-13, Corner(3R) 6-3-13 to 10-8-10, Exterior(2N) 10-8-10 to 12-5-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8 except (jt=lb) 2=296, 6=330.



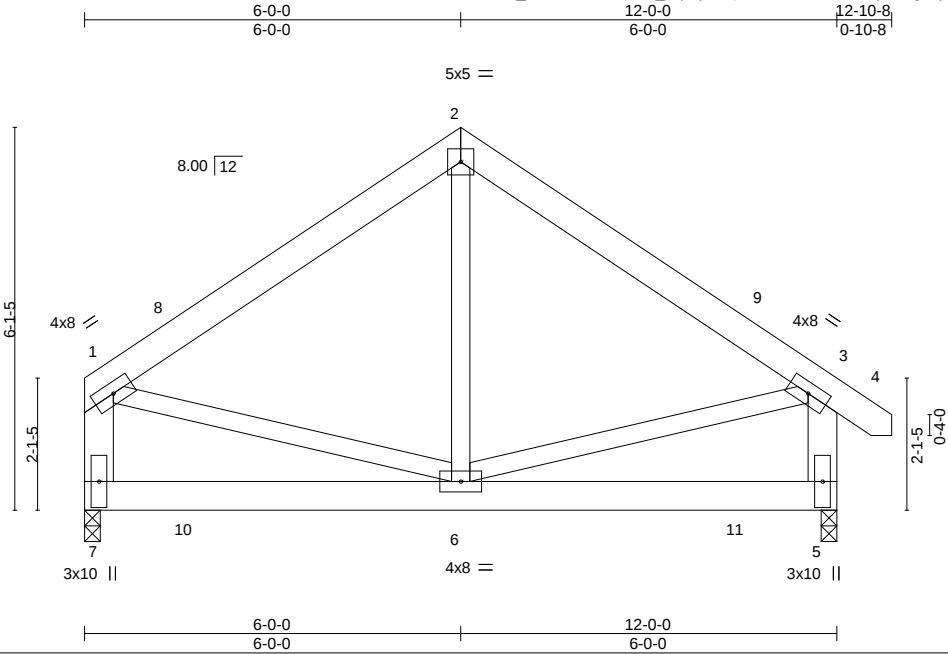
April 23,2025

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	C1	COMMON	5	1	172948420
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:10 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f



Scale = 1:36.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	0.02	5-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.01	6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-AS						Weight: 96 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
1-7,3-5: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 7=0-3-0, 5=0-3-0
Max Horz 7=-136(LC 10)
Max Uplift 7=-124(LC 9), 5=-131(LC 8)
Max Grav 7=459(LC 1), 5=520(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-416/666, 2-3=-419/673, 1-7=-402/582, 3-5=-463/654
WEBS 2-6=-405/164, 1-6=-256/188

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 6-0-0, Exterior(2R) 6-0-0 to 10-4-13, Interior(1) 10-4-13 to 12-8-9 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=124, 5=131.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 23,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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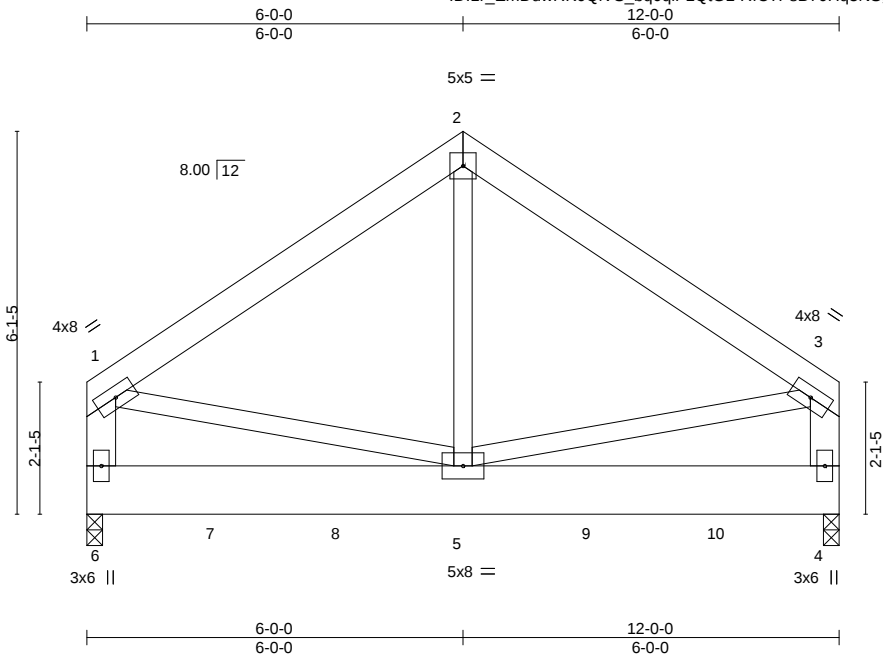
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	C1-GR	COMMON GIRDER	1	2	172948421

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:11 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f



Scale = 1:36.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	-0.01	5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.01	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-MS	Wind(LL)	0.00	6	>999	240		
									Weight: 222 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.2 *Except*
1-6,3-4: 2x6 SP No.1

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.

(size) 6=0-3-0, 4=0-3-0
Max Horz 6=-123(LC 4)
Max Grav 6=1110(LC 1), 4=1122(LC 1)

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

TOP CHORD 1-2=-976/0, 2-3=-976/0, 1-6=-818/0, 3-4=-818/0
BOT CHORD 5-6=-125/254
WEBS 2-5=0/661, 1-5=0/585, 3-5=0/584

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 262 lb down at 2-0-12, 262 lb down at 4-0-12, 262 lb down at 6-0-12, and 262 lb down at 8-0-12, and 262 lb down at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-262(F) 7=-262(F) 8=-262(F) 9=-262(F) 10=-262(F)



April 23,2025

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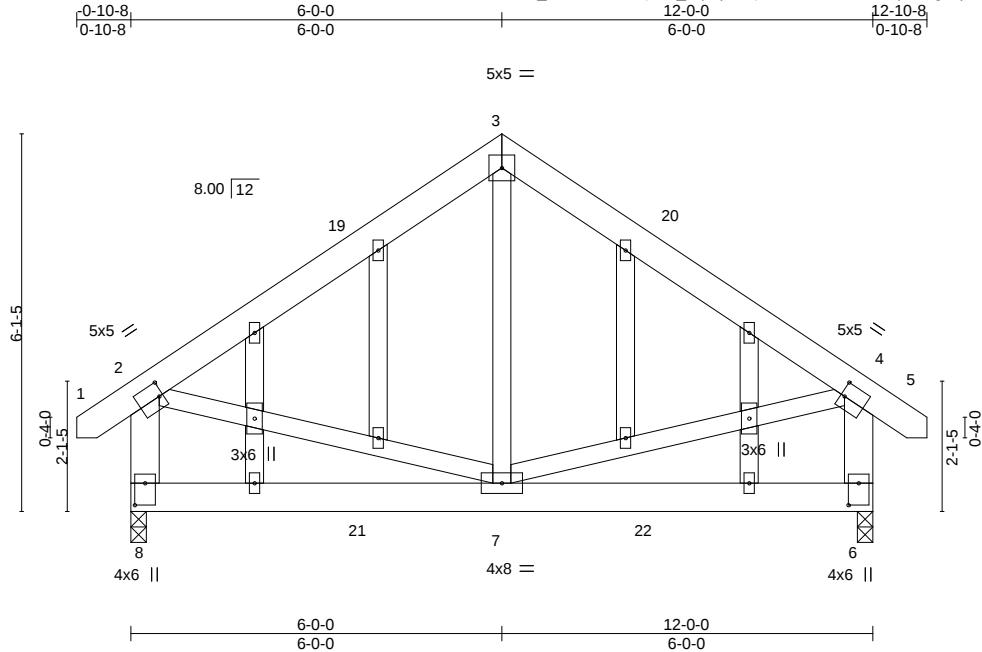
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	C1GE	GABLE	1	1	172948422
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:10 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:37.3

Plate Offsets (X,Y)--		[2:0-0-12,0-2-12], [4:0-0-12,0-2-12], [6:0-4-4,0-2-0], [8:0-4-4,0-2-0]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.03	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.01	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 114 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
2-8,4-6: 2x6 SP No.1
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 8=0-3-0, 6=0-3-0
Max Horz 8=-143(LC 10)
Max Uplift 8=-132(LC 9), 6=-132(LC 8)
Max Grav 8=518(LC 1), 6=518(LC 1)

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

TOP CHORD 2-3=-416/861, 3-4=-416/861, 2-8=-460/877, 4-6=-460/877
BOT CHORD 7-8=-327/199, 6-7=-256/105
WEBS 3-7=-519/166, 2-7=-274/194, 4-7=-276/196

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-8-9 to 3-8-4, Exterior(2N) 3-8-4 to 6-0-0, Corner(3R) 6-0-0 to 10-4-13, Exterior(2N) 10-4-13 to 12-8-9 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2'-0" oc.
- 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" tall by 2'-0" wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=132, 6=132.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 23, 2025

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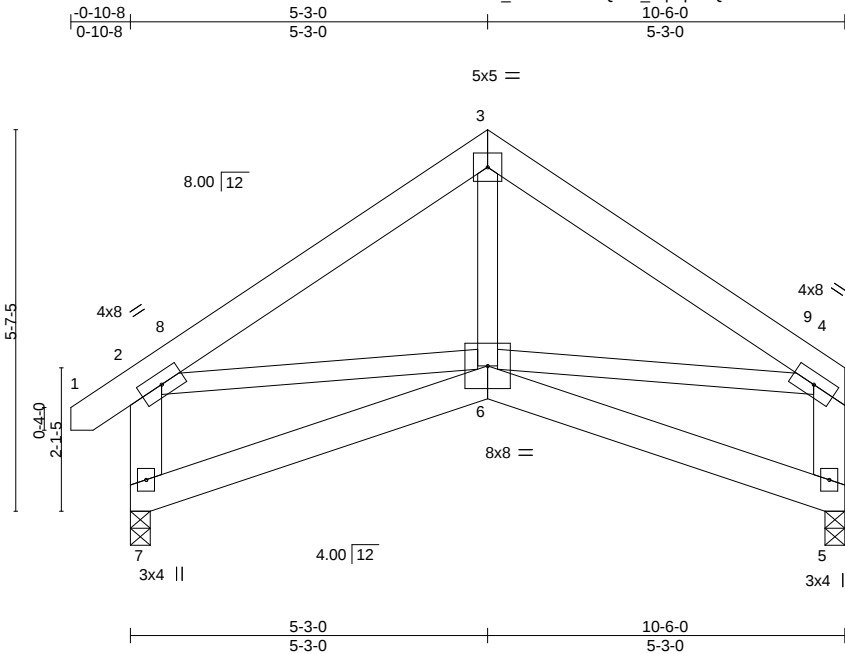
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	D1	SCISSORS	5	1	172948423

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:11 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f



Scale = 1:33.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.01	5-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.01	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-AS	Wind(LL)	0.00	6	>999	240		
									Weight: 85 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
2-7,4-5: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 7=0-3-8, 5=0-3-8
Max Horz 7=120(LC 11)
Max Uplift 7=-78(LC 12), 5=-60(LC 13)
Max Grav 7=461(LC 1), 5=399(LC 1)

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

TOP CHORD 2-3=-472/281, 3-4=-469/276, 2-7=-446/377, 4-5=-389/287
WEBS 2-6=0/265, 4-6=-47/296

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 5-3-0, Exterior(2R) 5-3-0 to 9-7-13, Interior(1) 9-7-13 to 10-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearing at joint(s) 7, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 23,2025

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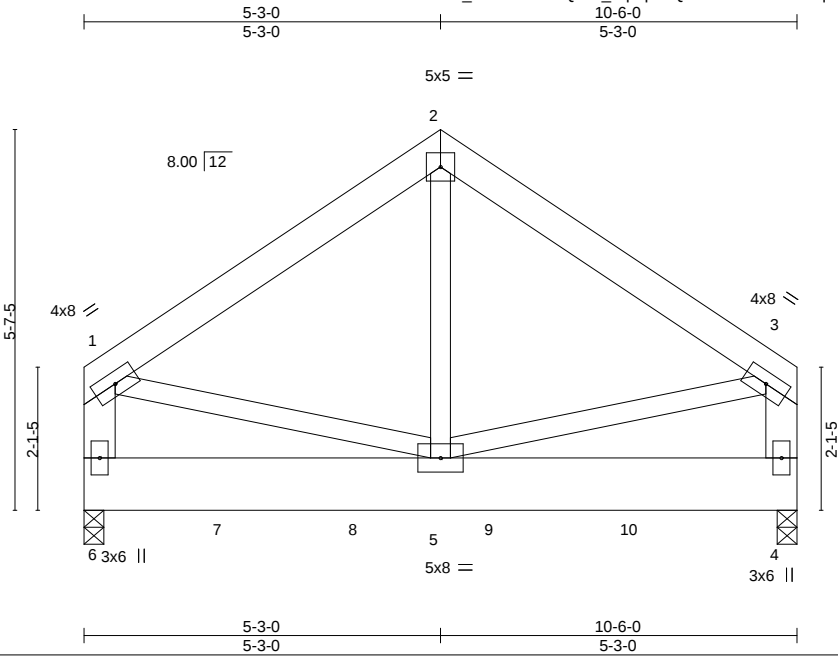
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	D1-GR	Common Girder	1	2	172948424

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:12 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.01	5	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-MS	Wind(LL)	0.00	6	>999	240		
									Weight: 196 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.2 *Except*
1-6,3-4: 2x6 SP No.1

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.

(size) 6=0-3-8, 4=0-3-8
Max Horz 6=-107(LC 4)
Max Grav 6=929(LC 1), 4=1153(LC 1)

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

TOP CHORD 1-2=-784/0, 2-3=-784/0, 1-6=-686/0, 3-4=-687/0
WEBS 2-5=0/507, 1-5=0/481, 3-5=0/486

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 254 lb down at 2-0-12, 254 lb down at 4-0-12, 254 lb down at 6-0-12, and 254 lb down at 8-0-12, and 262 lb down at 10-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 4=-262(F) 7=-254(F) 8=-254(F) 9=-254(F) 10=-254(F)



April 23,2025

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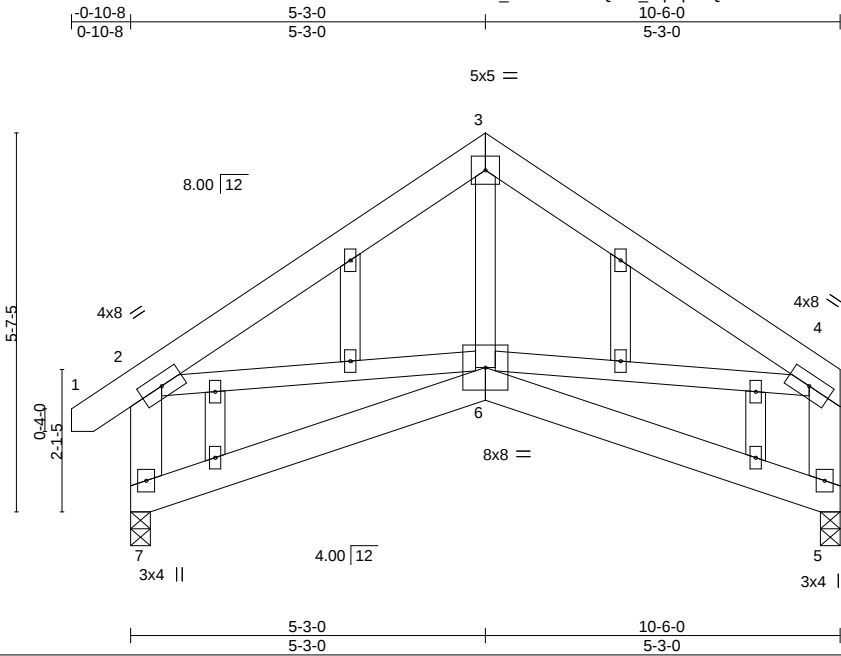
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	D1GE	SCISSOR STRUCTURAL	1	1	172948425
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:12 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f



Scale = 1:34.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.01	5-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.01	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-AS	Wind(LL)	0.00	6	>999	240		
									Weight: 93 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
2-7,4-5: 2x6 SP No.1
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 7=0-3-8, 5=0-3-8
Max Horz 7=150(LC 11)
Max Uplift 7=-164(LC 12), 5=-130(LC 13)
Max Grav 7=461(LC 1), 5=399(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-472/279, 3-4=-473/274, 2-7=-446/375, 4-5=-389/284
WEBS 2-6=-26/276, 4-6=-85/313

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-8-9 to 3-8-4, Interior(1) 3-8-4 to 5-3-0, Exterior(2R) 5-3-0 to 9-7-13, Interior(1) 9-7-13 to 10-3-4 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 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.
- 8) Bearing at joint(s) 7, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=164, 5=130.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 23, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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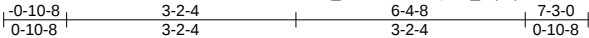
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	G1	COMMON	2	1	172948426
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

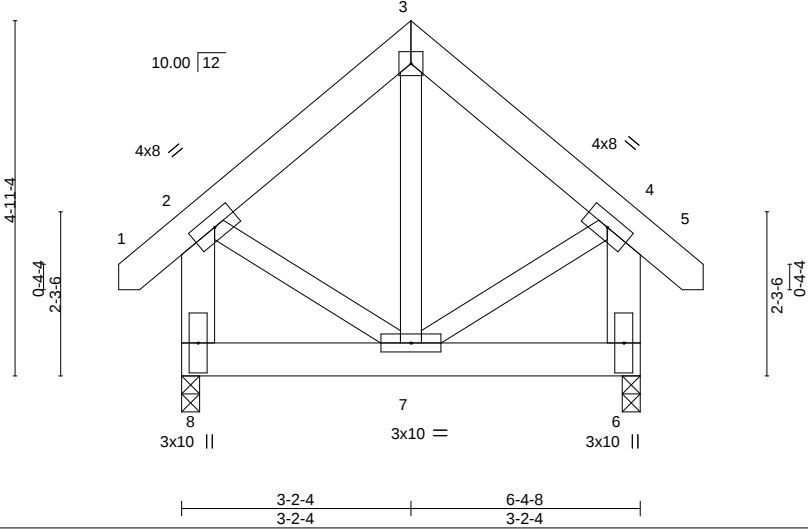
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:13 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f



4x4 =

Scale: 3/8"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	0.00	8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-AS						Weight: 63 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
2-8,4-6: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 8=0-3-0, 6=0-3-0
Max Horz 8=-104(LC 10)
Max Uplift 8=-85(LC 8), 6=-85(LC 9)
Max Grav 8=294(LC 1), 6=294(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-162/399, 3-4=-162/419, 2-8=-270/536, 4-6=-270/563
WEBS 3-7=-293/57

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 23,2025

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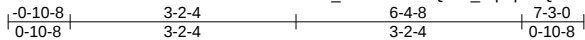
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	G1GE	GABLE	1	1	172948427

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:13 2025 Page 1

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4x4 =

Scale = 1:32.5

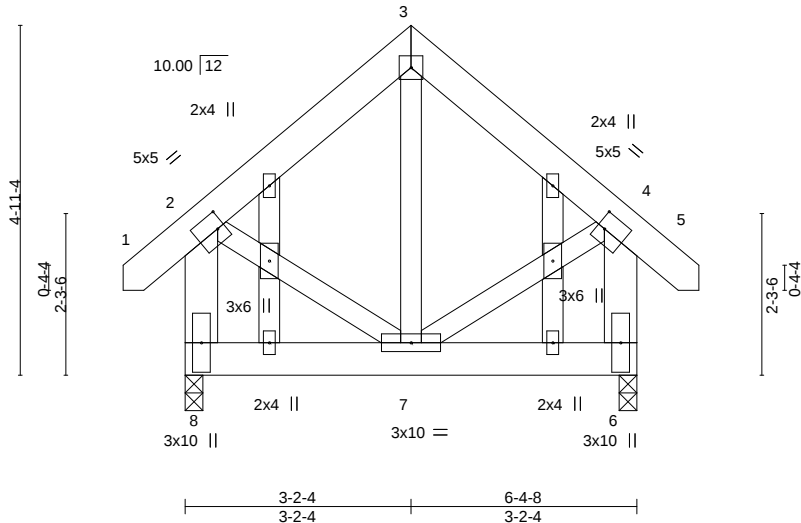


Plate Offsets (X,Y)--		[2:0-1-4,0-2-12], [4:0-1-4,0-2-12]								
LOADING (psf)		SPACING-	2-0-0	CSI.					PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.00	8	>999	240
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	7	>999	240
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	6	n/a	n/a
BCDL	10.0	Code IRC2021/TPI2014		Matrix-AS						
									Weight: 69 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
2-8,4-6: 2x6 SP No.1
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 8=0-3-0, 6=0-3-0
Max Horz 8=-130(LC 10)
Max Uplift 8=-107(LC 13), 6=-107(LC 12)
Max Grav 8=294(LC 1), 6=294(LC 1)

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

TOP CHORD 2-3=-162/531, 3-4=-162/524, 2-8=-270/732, 4-6=-270/704
WEBS 3-7=-365/57

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable studs spaced at 2-0-0 oc.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=107, 6=107.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 23,2025

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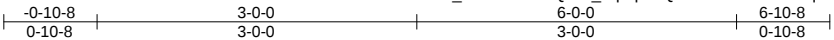
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	H1	COMMON	3	1	172948428
					Job Reference (optional)

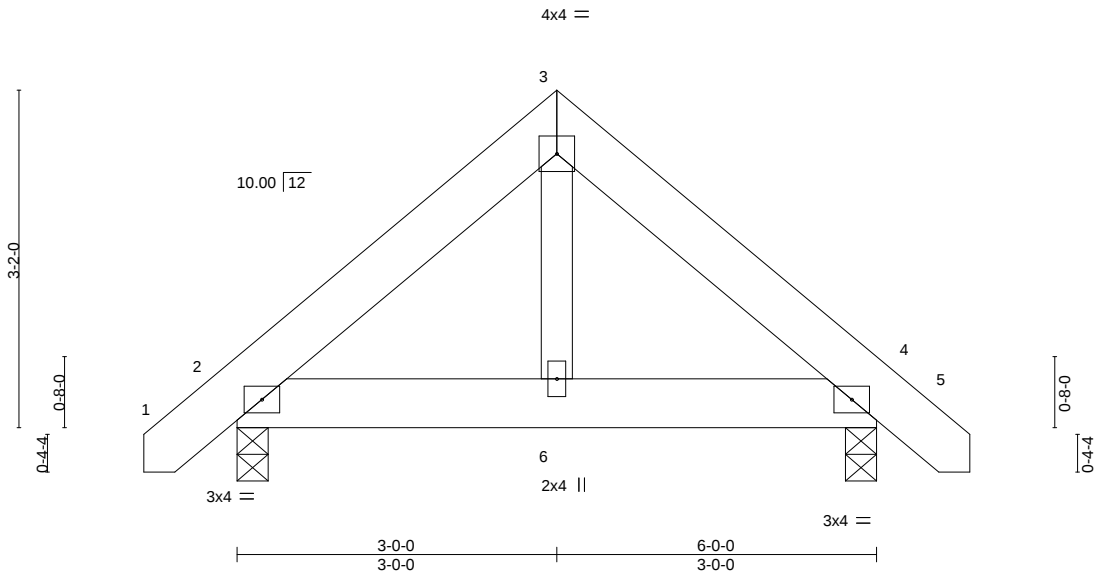
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:14 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qIPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f



Scale = 1:21.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	0.00	9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-AS						Weight: 42 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-3-8, 4=0-3-8
Max Horz 2=-124(LC 10)
Max Uplift 2=-111(LC 12), 4=-111(LC 13)
Max Grav 2=284(LC 1), 4=284(LC 1)

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

TOP CHORD 2-3=-265/211, 3-4=-266/211

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=111, 4=111.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 23,2025

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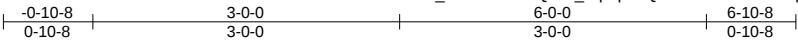
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	H2-GR	COMMON GIRDER	1	2	172948429

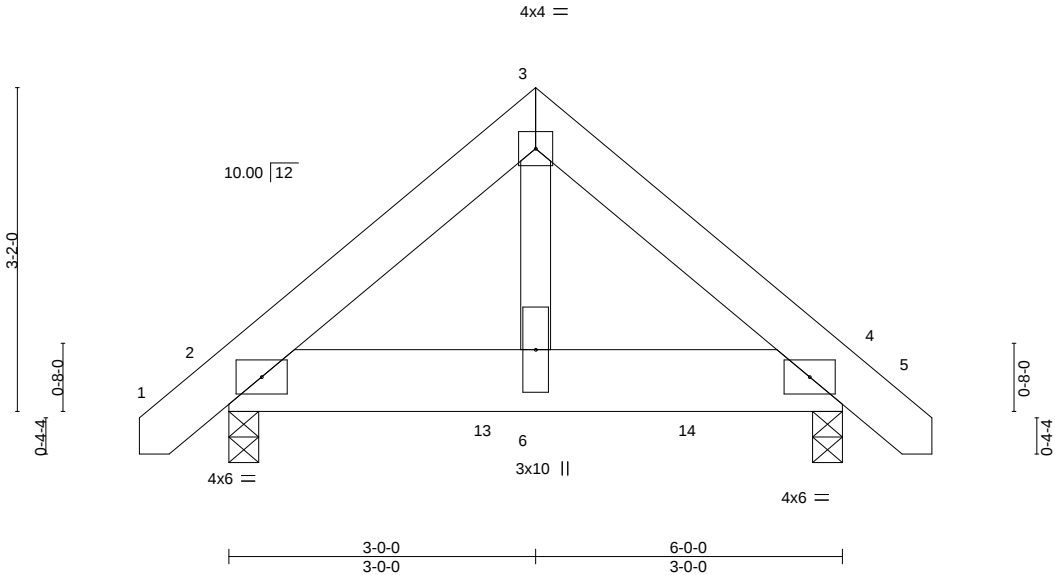
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:14 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qIPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f



Scale = 1:22.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	-0.00	6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.01	6	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.12	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-MP	Wind(LL)	0.00	9	>999	240	Weight: 92 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 4=0-3-8
Max Horz 2=-99(LC 6)
Max Uplift 2=-129(LC 8), 4=-113(LC 9)
Max Grav 2=1191(LC 2), 4=961(LC 2)

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

TOP CHORD 2-3=-893/120, 3-4=-896/119
BOT CHORD 2-6=-36/691, 4-6=-36/691
WEBS 3-6=-80/952

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=129, 4=113.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 556 lb down and 49 lb up at 0-6-12, and 551 lb down and 53 lb up at 2-6-12, and 551 lb down and 53 lb up at 4-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 7-10=-20
Concentrated Loads (lb)
Vert: 9=-525(B) 13=-521(B) 14=-521(B)



April 23, 2025

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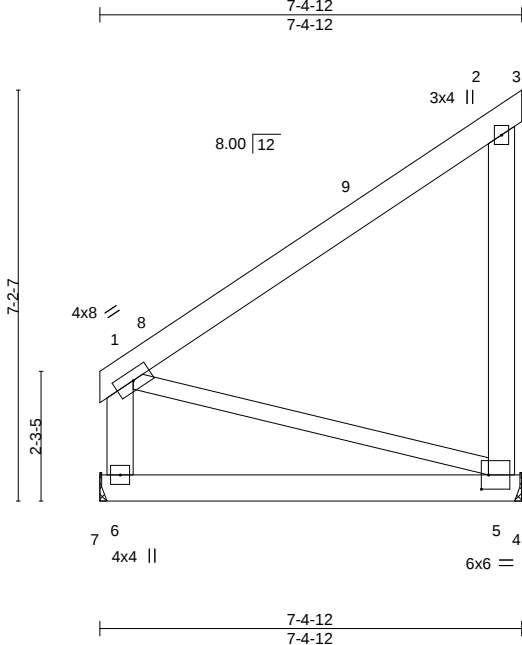
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	J1	JACK-CLOSED	5	1	172948430
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:14 2025 Page 1

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Scale = 1:40.4

Plate Offsets (X,Y)--	[5:0-1-8,0-3-0]										
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	-0.03	5-6	>999	360	MT20	244/190	
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	-0.05	5-6	>999	240			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	-0.00	5	n/a	n/a			
BCDL 10.0	Code IRC2021/TPI2014		Matrix-AS	Wind(LL)	0.00	6	****	240	Weight: 66 lb	FT = 20%	

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
1-5: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 6=Mechanical, 5=Mechanical
Max Horz 6=202(LC 12)
Max Uplift 5=-199(LC 12)
Max Grav 6=274(LC 1), 5=354(LC 19)

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

TOP CHORD 1-2=-254/137, 2-5=-267/381
BOT CHORD 5-6=-368/171
WEBS 1-5=-179/384

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 7-4-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=199.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 23,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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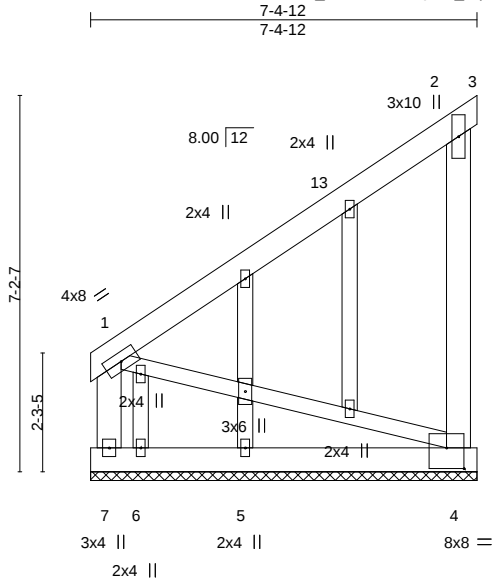
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	J1GE	GABLE	1	1	172948431
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:15 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:44.1

Plate Offsets (X,Y)--		[4:0-4-0,0-4-12]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.19	Horz(CT) -0.01 3 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-P		Weight: 79 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
1-4: 2x4 SP No.2
OTHERS 2x4 SP No.2

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 7-4-12.
(lb) - Max Horz 7=293(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) except 3=-741(LC 19), 4=-1174(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 7, 5, 6 except 3=776(LC 12), 4=1112(LC 19)

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

TOP CHORD 1-2=-380/208, 2-3=-502/842, 2-4=-1281/2128
BOT CHORD 6-7=-526/228, 5-6=-526/228, 4-5=-526/228
WEBS 1-4=-238/550

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-4-4 to 4-9-1, Exterior(2N) 4-9-1 to 7-4-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 741 lb uplift at joint 3 and 1174 lb uplift at joint 4.



April 23,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	J2	JACK-CLOSED	14	1	172948432
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:15 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f7-7-127-7-12

Scale = 1:40.4

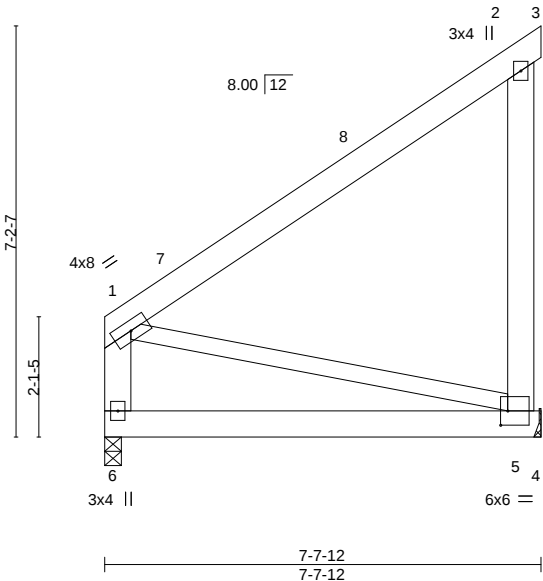


Plate Offsets (X,Y)--		[5:0-1-8,0-3-0]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.03	5-6	>999
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.07	5-6	>999
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.00	5	n/a
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.00	6	****
								Weight: 68 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
1-5: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 6=0-3-8, 5=Mechanical
Max Horz 6=212(LC 12)
Max Uplift 5=-199(LC 12)
Max Grav 6=282(LC 1), 5=369(LC 19)

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

TOP CHORD 1-2=-264/143, 2-5=-278/395
BOT CHORD 5-6=-381/178
WEBS 1-5=-183/392

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 7-7-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 5.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 23,2025

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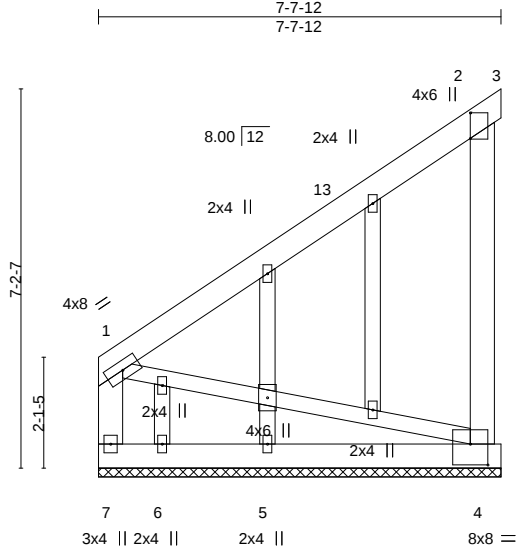
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	J2GE	GABLE	1	1	172948433
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:15 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:43.8

Plate Offsets (X,Y)--		[2:0-5-13,0-0-0], [4:0-4-0,0-4-12]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21	Horz(CT)	-0.01	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 80 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
1-4: 2x4 SP No.2
OTHERS 2x4 SP No.2

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 7-7-12.
(lb) - Max Horz 7=308(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) except 3=-850(LC 19), 4=-1297(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 7, 5, 6 except 3=891(LC 12), 4=1236(LC 19)

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

TOP CHORD 1-2=-394/218, 2-3=-571/944, 2-4=-1422/2331
BOT CHORD 6-7=-545/238, 5-6=-545/238, 4-5=-545/238
WEBS 1-4=-245/561

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-2-12 to 4-7-9, Exterior(2N) 4-7-9 to 7-7-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 850 lb uplift at joint 3 and 1297 lb uplift at joint 4.



April 23,2025

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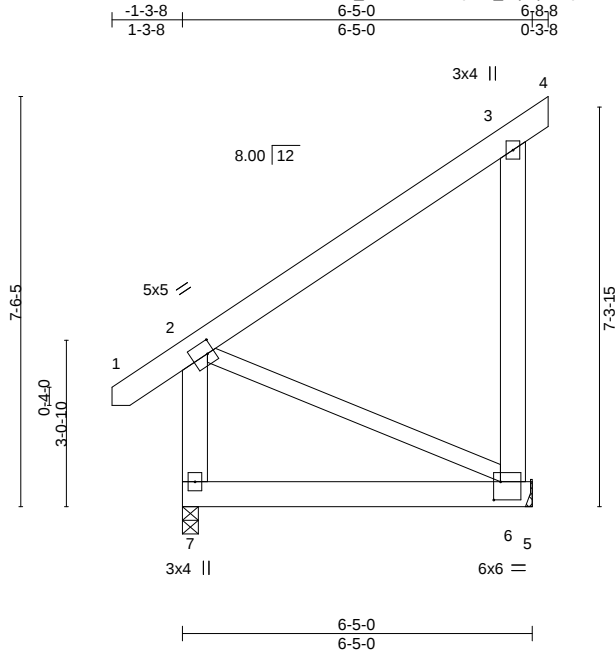
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	M1	MONOPITCH	3	1	172948434
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:16 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:42.3

Plate Offsets (X,Y)--		[2:0-1-8,0-2-12], [6:0-1-8,0-4-0]										
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.02	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.03	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matrix-AS		Wind(LL)	0.00	7	****	240	Weight: 67 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
2-6: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 6=Mechanical, 7=0-3-8
Max Horz 7=234(LC 9)
Max Uplift 6=221(LC 12)
Max Grav 6=353(LC 19), 7=322(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-286/162, 3-6=-316/439, 2-7=-264/34
BOT CHORD 6-7=-554/222
WEBS 2-6=-245/611

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 6-8-8 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 6.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 23,2025

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	M1GE	GABLE	1	1	172948435
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:16 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-1-3-8 1-3-8 6-5-0 6-5-0 6-8-8 0-3-8

Scale = 1:43.0

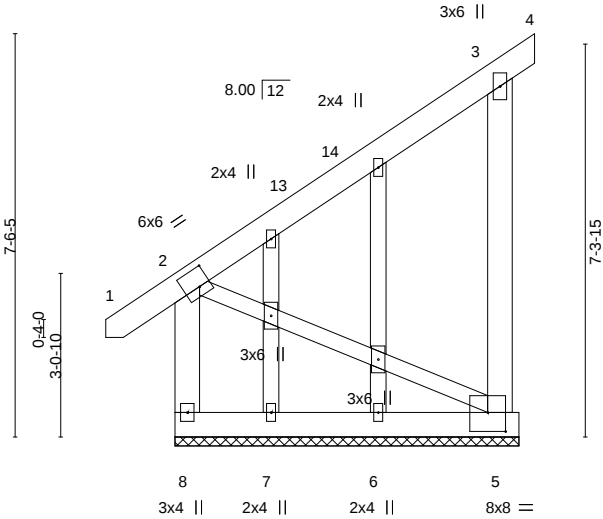


Plate Offsets (X,Y)--		[2:0-2-8,0-4-0], [5:0-4-0,0-4-4]									
LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.38	Vert(LL)	-0.00	4	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	3	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 78 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
2-5: 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-12 oc bracing.

REACTIONS.

All bearings 6-5-0.
(lb) - Max Horz 8=275(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) except 5=-383(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 6, 7 except 5=326(LC 19), 8=276(LC 1)

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

TOP CHORD 2-3=-357/162, 3-5=-316/573, 2-8=-264/87
BOT CHORD 7-8=-702/222, 6-7=-702/222, 5-6=-702/222
WEBS 2-5=-245/774

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-1-9 to 3-3-4, Exterior(2N) 3-3-4 to 6-8-8 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 383 lb uplift at joint 5.



April 23,2025

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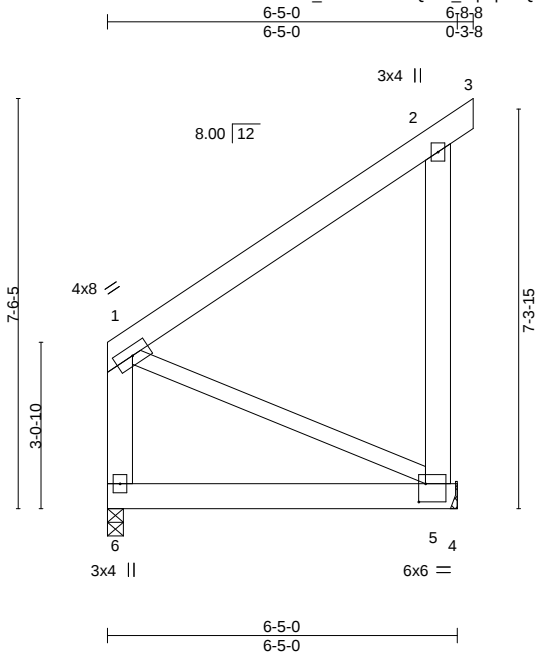
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	M2	MONOPITCH	3	1	172948436

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:17 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:42.3

Plate Offsets (X,Y)-- [5:0-1-8,0-4-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.02	5-6	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Horz(CT)	-0.03	5-6	>999	240	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.00	5	n/a	n/a	
BCDL	10.0	Code IRC2021/TPI2014		Matrix-AS		Wind(LL)	0.00	6	****	240	Weight: 63 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
1-5: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 5=Mechanical, 6=0-3-8
Max Horz 6=214(LC 9)
Max Uplift 5=-212(LC 12)
Max Grav 5=360(LC 19), 6=231(LC 1)

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

TOP CHORD 1-2=-297/169, 2-5=-329/465
BOT CHORD 5-6=-479/260
WEBS 1-5=-287/528

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 6-8-8 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 5.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



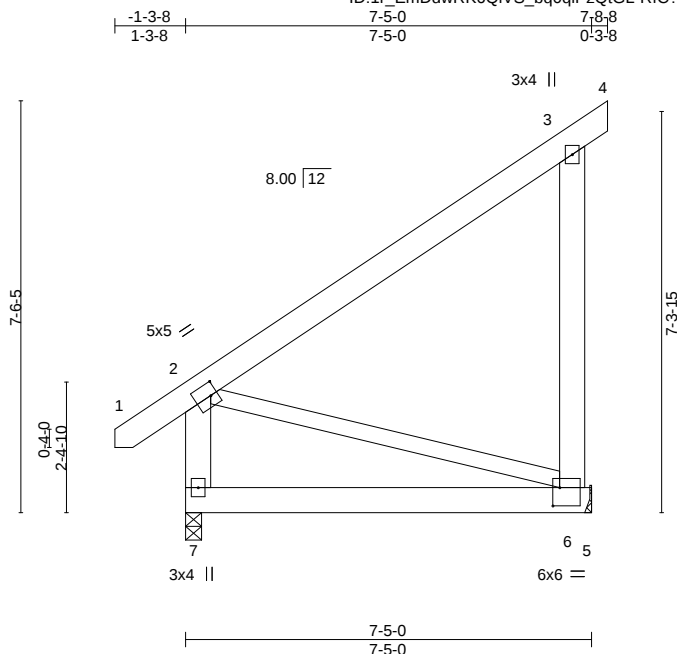
April 23,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932



Scale = 1:42.1

Plate Offsets (X,Y)-- [2:0-1-8,0-2-12], [6:0-1-8,0-4-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.06	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matrix-AS		Wind(LL)	0.00	7	****	240	Weight: 71 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x6 SP No.1 *Except* 2-6: 2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS.

(size) 6=Mechanical, 7=0-3-8
Max Horz 7=236(LC 9)
Max Uplift 6=-217(LC 12)
Max Grav 6=383(LC 19), 7=361(LC 1)

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

TOP CHORD 2-3=-308/179, 3-6=-350/466, 2-7=-293/96
BOT CHORD 6-7=-557/228
WEBS 2-6=-238/581

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCdL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 7-8-8 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 6.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 23, 2025



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	M3GE	GABLE	1	1	172948438
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:17 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-1-3-8
1-3-8
7-5-0
7-5-0
7-8-8
0-3-8

Scale = 1:42.1

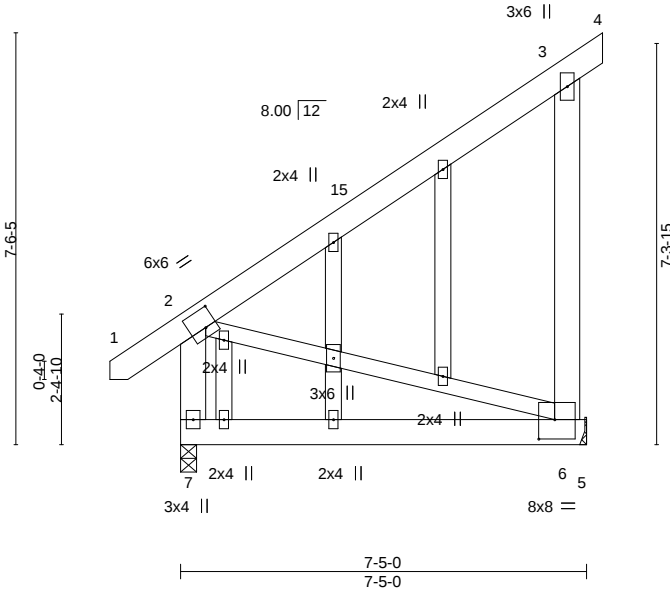


Plate Offsets (X,Y)--		[2:0-2-8,0-4-0], [6:0-3-8,0-4-4]											
LOADING (psf)		SPACING-	2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15		TC	0.45	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.19	Vert(CT)	-0.06	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES		WB	0.19	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014			Matrix-AS		Wind(LL)	0.00	7	****	240	Weight: 84 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1 *Except*
2-6: 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 6=Mechanical, 7=0-3-8
Max Horz 7=312(LC 12)
Max Uplift 6=356(LC 12)
Max Grav 6=401(LC 19), 7=361(LC 1)

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

TOP CHORD 2-3=-386/179, 3-6=-350/615, 2-7=-293/173
BOT CHORD 6-7=-713/228
WEBS 2-6=-238/743

NOTES-

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-1-9 to 3-3-4, Exterior(2N) 3-3-4 to 7-8-8 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 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.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 356 lb uplift at joint 6.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



April 23,2025

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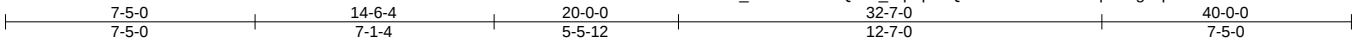
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	T1-GR	Flat Girder	1	2	172948439

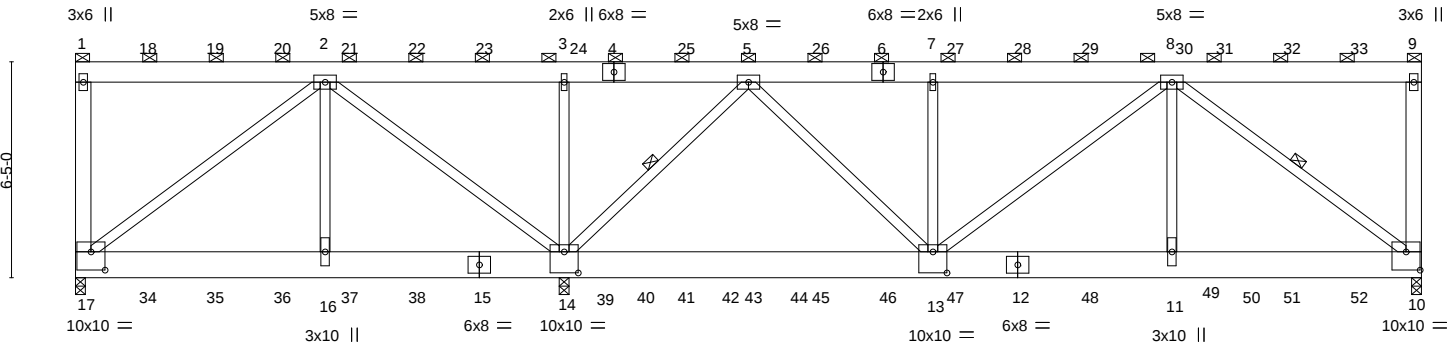
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:19 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



Scale = 1:68.5



	7-5-0	14-6-4	32-7-0	40-0-0
	7-5-0	7-1-4	18-0-12	7-5-0
Plate Offsets (X,Y)--	[10:0-5-0,0-6-8], [13:0-5-0,0-7-8], [14:0-5-0,0-7-8], [17:0-5-0,0-6-8]			

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.09 13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.16 13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.90	Horz(CT)	0.02 10	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-MS	Wind(LL)	0.08 13-14	>999	240	Weight: 812 lb	FT = 20%

LUMBER-

TOP CHORD 2x8 SP No.1
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
1-17,9-10: 2x6 SP No.1

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-9, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-14, 8-10

REACTIONS.

(size) 17=0-3-8, 10=0-3-8, 14=0-3-8 (req. 0-4-1)
Max Uplift 17=-1070(LC 4), 10=-2265(LC 4), 14=-3780(LC 4)
Max Grav 17=1914(LC 2), 10=5989(LC 2), 14=9805(LC 2)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-855/598, 2-3=-668/1830, 3-5=-668/1830, 5-7=-5465/1913, 7-8=-5465/1913, 9-10=-1185/638
BOT CHORD 16-17=-314/483, 14-16=-314/483, 13-14=-783/1904, 11-13=-1765/5145, 10-11=-1765/5145
WEBS 2-17=-545/366, 2-16=-534/1906, 2-14=-2972/1262, 3-14=-612/435, 5-14=-5404/2099, 5-13=-1636/5152, 7-13=-1046/461, 8-13=-191/470, 8-11=-624/2222, 8-10=-6429/2205

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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.
- WARNING: Required bearing size at joint(s) 14 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1070 lb uplift at joint 17, 2265 lb uplift at joint 10 and 3780 lb uplift at joint 14.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 23,2025

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	T1-GR	Flat Girder	1	2	I72948439
					Job Reference (optional)

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 589 lb down and 413 lb up at 0-2-12, 157 lb down and 114 lb up at 2-0-12, 157 lb down and 114 lb up at 4-0-12, 157 lb down and 114 lb up at 6-0-12, 157 lb down and 114 lb up at 8-0-12, 92 lb down and 174 lb up at 10-0-12, 92 lb down and 174 lb up at 12-0-12, 92 lb down and 174 lb up at 14-0-12, 157 lb down and 114 lb up at 16-0-12, 157 lb down and 114 lb up at 18-0-12, 157 lb down and 114 lb up at 20-0-12, 147 lb down and 113 lb up at 22-0-12, 147 lb down and 113 lb up at 24-0-12, 368 lb down and 136 lb up at 26-0-12, 368 lb down and 136 lb up at 28-0-12, 317 lb down and 113 lb up at 30-0-12, 317 lb down and 113 lb up at 32-0-12, 317 lb down and 113 lb up at 34-0-12, 368 lb down and 136 lb up at 36-0-12, and 368 lb down and 136 lb up at 38-0-12, and 589 lb down and 417 lb up at 39-9-4 on top chord, and 306 lb down and 219 lb up at 2-0-12, 399 lb down at 2-1-12, 306 lb down and 219 lb up at 4-0-12, 399 lb down at 4-1-12, 306 lb down and 219 lb up at 6-0-12, 399 lb down at 6-1-12, 306 lb down and 219 lb up at 8-0-12, 412 lb down at 8-1-12, 306 lb down and 219 lb up at 10-0-12, 412 lb down at 10-1-12, 319 lb down and 219 lb up at 12-0-12, 412 lb down at 12-1-12, 319 lb down and 219 lb up at 14-0-12, 412 lb down at 14-1-12, 319 lb down and 219 lb up at 16-0-12, 432 lb down at 16-1-12, 319 lb down and 219 lb up at 18-0-12, 432 lb down at 18-1-12, 319 lb down and 219 lb up at 20-0-12, 432 lb down at 20-1-12, 319 lb down and 219 lb up at 22-0-12, 432 lb down at 22-1-12, 319 lb down and 219 lb up at 24-0-12, 432 lb down at 24-1-12, 319 lb down and 219 lb up at 26-0-12, 412 lb down at 26-1-12, 319 lb down and 219 lb up at 28-0-12, 432 lb down at 28-1-12, 319 lb down and 219 lb up at 30-0-12, 432 lb down at 30-1-12, 319 lb down and 219 lb up at 32-0-12, 432 lb down at 32-1-12, 319 lb down and 219 lb up at 34-0-12, 432 lb down at 34-1-12, 319 lb down and 219 lb up at 36-0-12, 412 lb down at 36-1-12, and 319 lb down and 219 lb up at 38-0-12, and 412 lb down at 38-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-9=-60, 10-17=-20

Concentrated Loads (lb)

Vert: 1=-589 4=-51 9=-589 15=-389(F=-98, B=-292) 5=-51 6=-44 12=-395(F=-103, B=-292) 18=-51 19=-51 20=-51 21=-51 22=-24 23=-24 24=-24 25=-51 26=-44 27=-342 28=-342 29=-317 30=-317 31=-317 32=-342 33=-342 34=-370(F=-94, B=-276) 35=-370(F=-94, B=-276) 36=-370(F=-94, B=-276) 37=-374(F=-98, B=-276) 38=-374(F=-98, B=-276) 39=-389(F=-98, B=-292) 40=-395(F=-103, B=-292) 41=-395(F=-103, B=-292) 43=-395(F=-103, B=-292) 45=-395(F=-103, B=-292) 46=-395(F=-103, B=-292) 47=-389(F=-98, B=-292) 48=-395(F=-103, B=-292) 49=-395(F=-103, B=-292) 50=-395(F=-103, B=-292) 51=-389(F=-98, B=-292) 52=-389(F=-98, B=-292)

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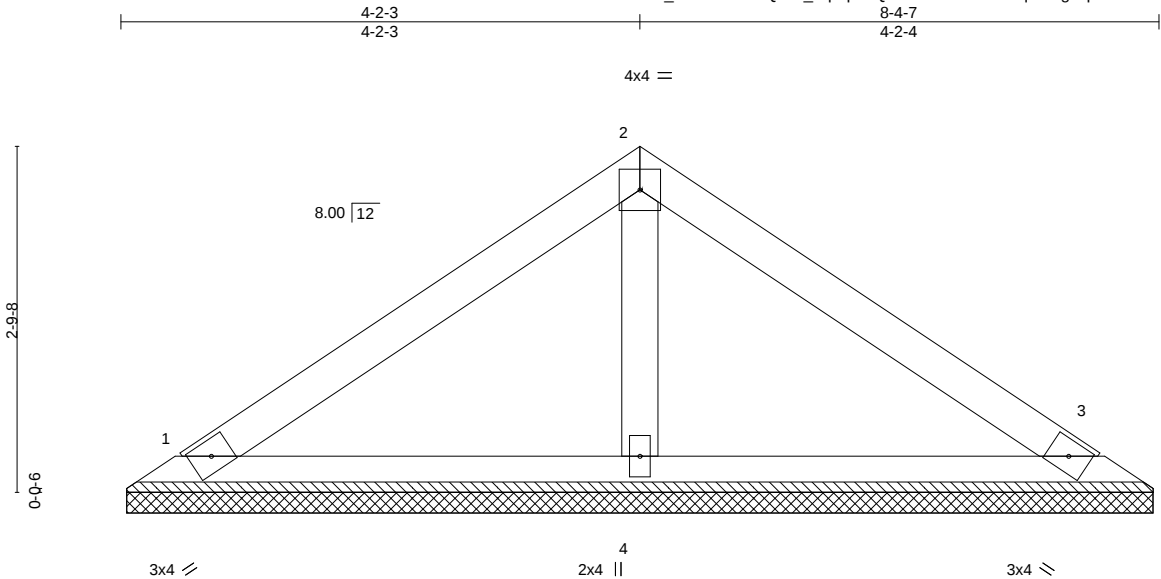
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	VC1	VALLEY	1	1	172948440
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:19 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f



Scale = 1:18.6

0-0-9		8-4-7		8-3-14	
0-0-9					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	n/a - n/a 999
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a - n/a 999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00 3 n/a n/a
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P		
				PLATES	GRIP
				MT20	244/190
				Weight: 29 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 1=8-3-5, 3=8-3-5, 4=8-3-5
Max Horz 1=-79(LC 8)
Max Uplift 1=-48(LC 12), 3=-56(LC 13), 4=-4(LC 12)
Max Grav 1=161(LC 1), 3=163(LC 20), 4=270(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 1, 56 lb uplift at joint 3 and 4 lb uplift at joint 4.
- 6) Non Standard bearing condition. Review required.



April 23,2025

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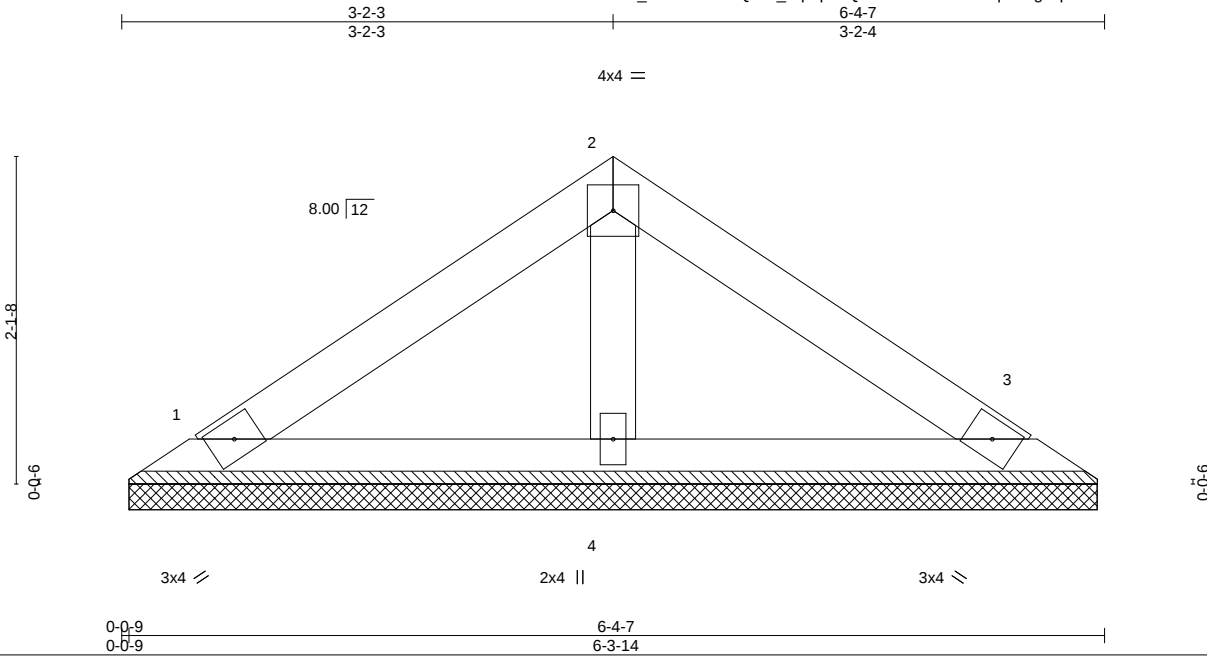
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2108	VD1	VALLEY	1	1	172948441
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 22 15:51:20 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:14.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P					Weight: 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 1=6-3-5, 3=6-3-5, 4=6-3-5
Max Horz 1=-58(LC 8)
Max Uplift 1=-35(LC 12), 3=-41(LC 13), 4=-3(LC 12)
Max Grav 1=117(LC 1), 3=119(LC 20), 4=196(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 1, 41 lb uplift at joint 3 and 3 lb uplift at joint 4.
- 6) Non Standard bearing condition. Review required.



April 23,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

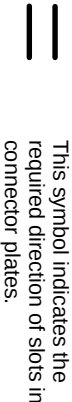
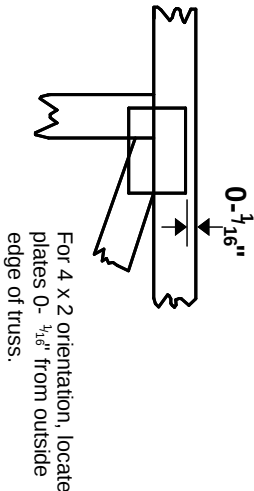
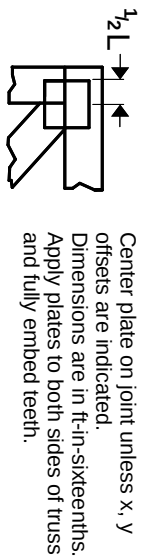
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



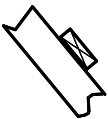
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

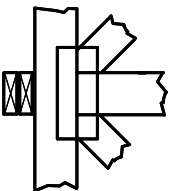
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

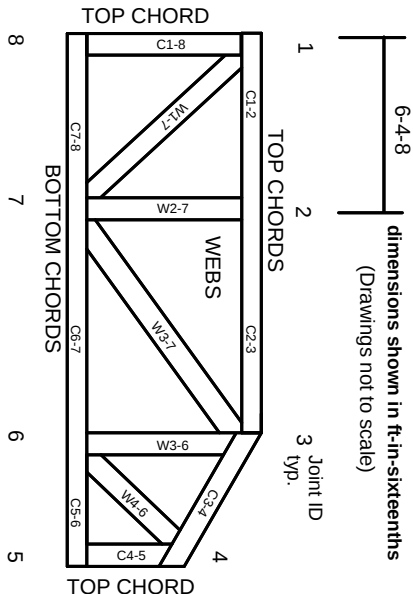


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

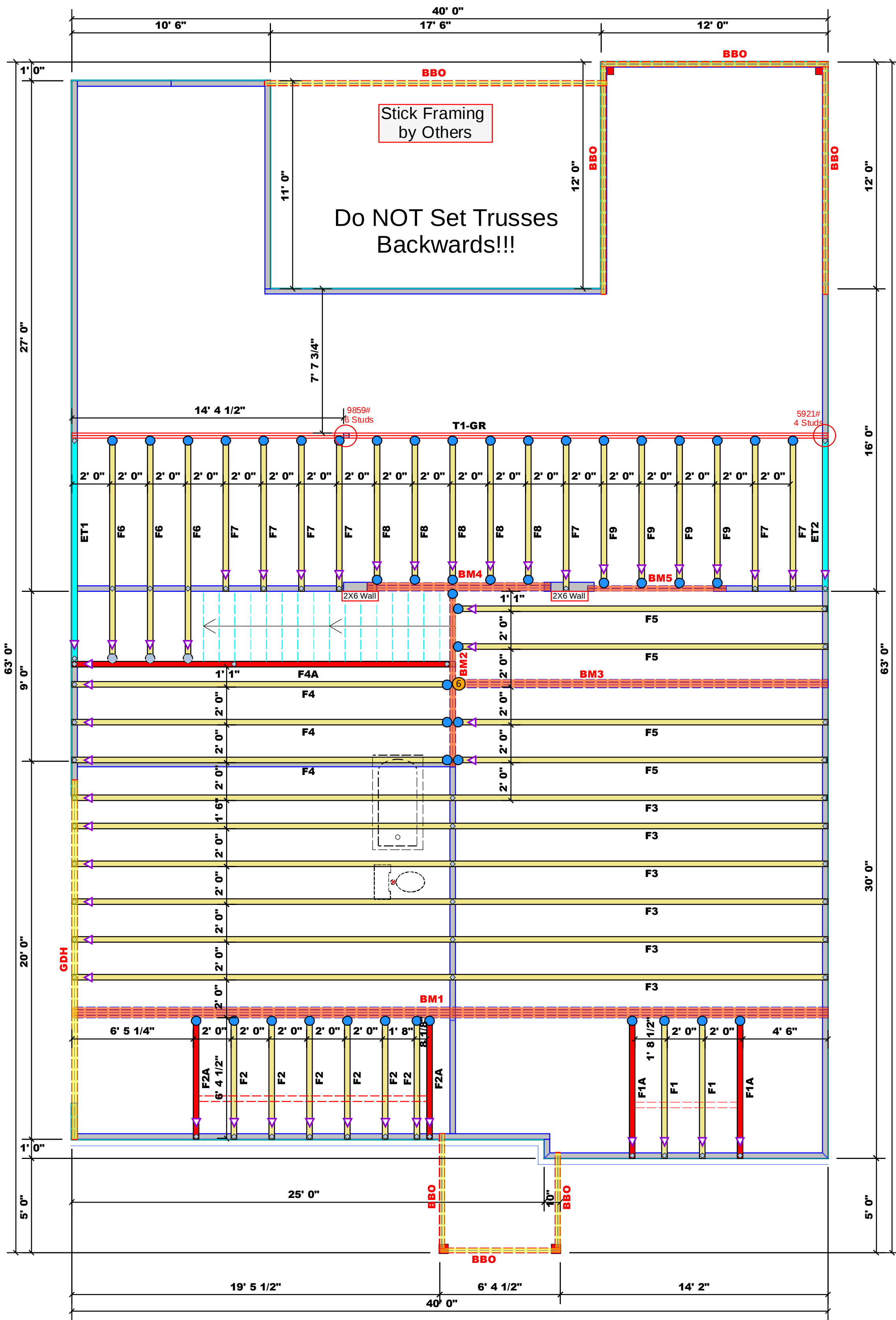
Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

MITek

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023



All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.
-- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

All Headers Are Considered 2X10 Beams Unless Otherwise Noted

All Walls Shown Are Considered Load Bearing

Plumbing Drop Notes
1. Plumbing drop locations shown are NOT exact.
2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
3. Adjust spacing as needed not to exceed 24"oc.

Dimension Notes
1. All exterior wall to wall dimensions are to face of stud unless noted otherwise.
2. All interior wall dimensions are to face of stud unless noted otherwise.
3. All exterior wall to truss dimensions are to face of stud unless noted otherwise.

Hatch Legend
5' 6-3/4" Walls
5' 11-1/2" Walls
Second Floor Walls
Vaulted Ceiling
Box Storage
Drop Beam
Flush Beam

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
●	HUS410	USP	48	NA	16d/3-1/2"	16d/3-1/2"
●	MSH422	USP	3	Varies	10d/3"	10d/3"
●	THDH612	USP	1	NA	16d/3-1/2"	16d/3-1/2"

Products				
PlotID	Length	Product	Plies	Net Qty
BM1	40' 0"	1-3/4"x 14" LVL Kerto-S	4	4
BM2	10' 0"	1-3/4"x 14" LVL Kerto-S	2	2
BM3	20' 0"	1-3/4"x 14" LVL Kerto-S	3	3
BM4	10' 0"	1-3/4"x 14" LVL Kerto-S	3	3
BM5	8' 0"	1-3/4"x 14" LVL Kerto-S	2	2

1 Truss Placement Plan
Scale: 1/4"=1'

▲ = Denotes Left End of Truss
(Reference Engineered Truss Drawing)

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (2))
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADERS/ROOF

END REACTION (UP TO)	END REACTION (UP TO)	END REACTION (UP TO)	END REACTION (UP TO)
1700	2550	3400	4250
3400	5100	6800	8500
5100	7650	10200	12800
6800	10200	13600	17000
8500	12750	17000	
10200	15300		
11900			
13600			
15300			

BUILDER

New Home, Inc.

JOB NAME

Lot 195 Ballard Road

PLAN

The Guilford - Georgian Alt., 2GLS

SEAL DATE

04/01/23

QUOTE

JOB

J0425-2109

CITY / CO.

Fuquay-Varina / Harnett

ADDRESS

1949 Ballard Road

MODEL

Roof

DATE REV.

05/06/25

DRAWN BY

Jonathan Landry

SALES REP.

Jonathan Landry

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.

These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult E-30-B1 and BCS-63 provided with the truss delivery package or online @ sbcindustry.com

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature Jonathan Landry
Jonathan Landry



ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

RE: J0425-2109
Lot 195 Ballard Road

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: New Homes, Inc. Project Name: J0425-2109
Lot/Block: 195 Model: The Guilford
Address: 1949 Ballard Road Subdivision: Ballard Road
City: Fuquay-Varina State: NC

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.6
Wind Code: N/A Wind Speed: N/A mph
Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 14 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	I72901685	ET1	4/22/2025
2	I72901686	ET2	4/22/2025
3	I72901687	F1	4/22/2025
4	I72901688	F1A	4/22/2025
5	I72901689	F2	4/22/2025
6	I72901690	F2A	4/22/2025
7	I72901691	F3	4/22/2025
8	I72901692	F4	4/22/2025
9	I72901693	F4A	4/22/2025
10	I72901694	F5	4/22/2025
11	I72901695	F6	4/22/2025
12	I72901696	F7	4/22/2025
13	I72901697	F8	4/22/2025
14	I72901698	F9	4/22/2025

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

Truss Design Engineer's Name: Galinski, John

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

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



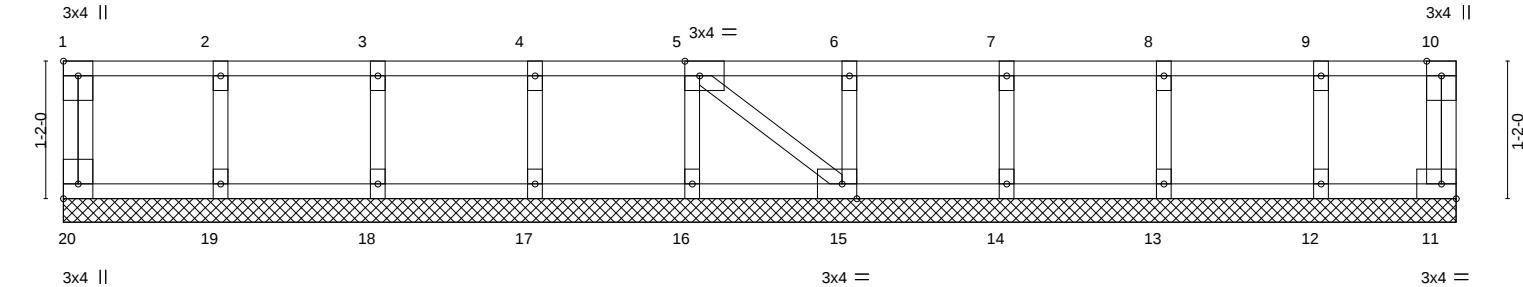
Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2109	ET1	GABLE	1	1	172901685
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 21 10:43:47 2025 Page 1
ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8

Scale = 1:19.5



1-4-0		2-8-0		4-0-0		5-4-0		6-8-0		8-0-0		9-4-0		10-8-0		11-9-12	
1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-1-12	
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [15:0-1-8,Edge], [20:Edge,0-1-8]																	
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 0.06		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 11		n/a		n/a					
BCDL 5.0		Code IRC2021/TPI2014		Matrix-S										Weight: 54 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 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 11-9-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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.
- 7) CAUTION, Do not erect truss backwards.



April 22,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

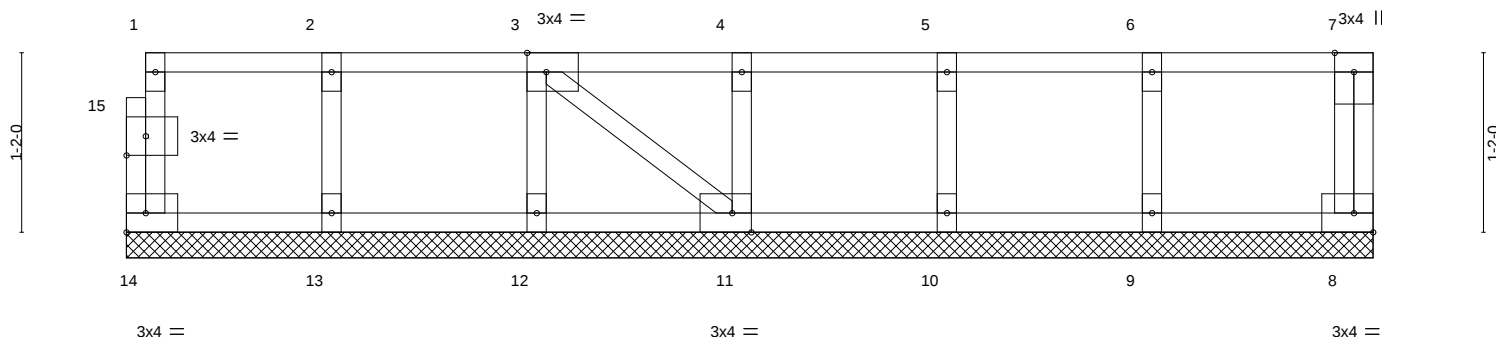
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompnents.com)

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Edenton, NC 27932

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 21 10:43:48 2025 Page 1
ID:1r EmDdwRK6OIVS bq0alPzOtGL-RfC?PsB70Hq3NSqPanL8w3uITxbGKwRCDoj7J4zJC?f

Scale = 1:15.0



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 0.07	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	8	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-P						Weight: 38 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)		
WEBS	2x4 SP No.3(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3(flat)		

REACTIONS. All bearings 8-1-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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.



April 22, 2025



WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-17-19 (Rev. 1/2/2025) 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/TP1 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)



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2109	F1	Floor	2	1	172901687
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 21 10:43:48 2025 Page 1
ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8



Scale = 1:13.8

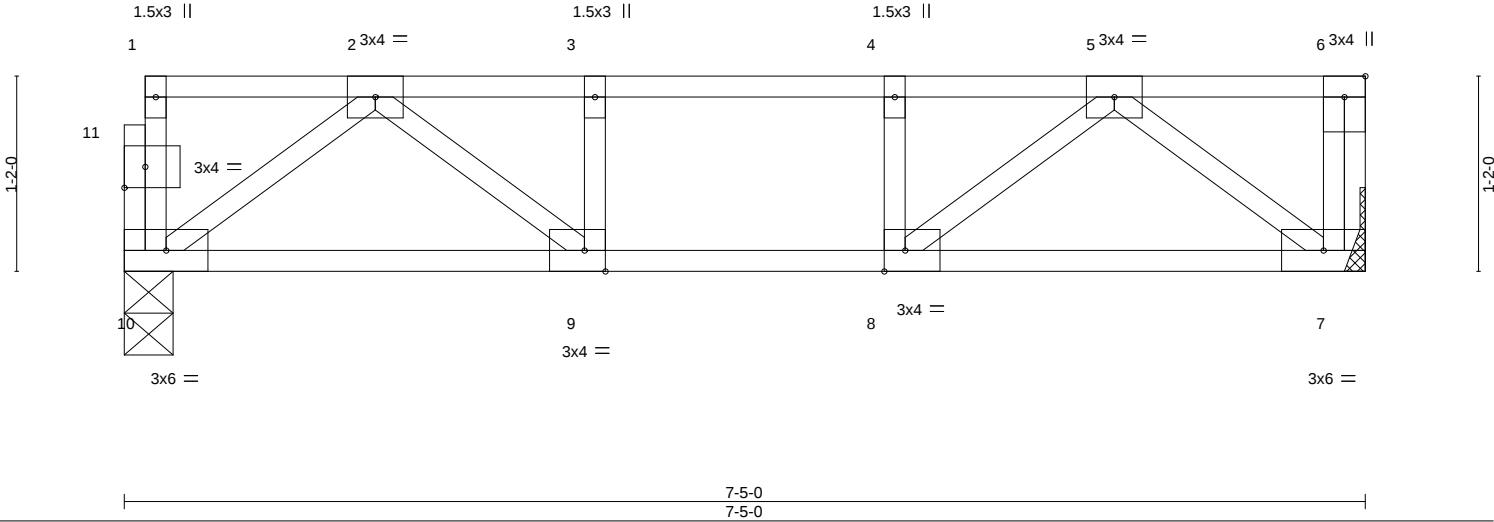


Plate Offsets (X,Y)--	[8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-1-8]	
LOADING (psf)	SPACING-	2-0-0
TCLL 40.0	Plate Grip DOL	1.00
TCDL 10.0	Lumber DOL	1.00
BCLL 0.0	Rep Stress Incr	NO
BCDL 5.0	Code IRC2021/TPI2014	
	CSI.	
	TC 0.45	
	BC 0.40	
	WB 0.27	
	Matrix-S	
	DEFL.	in (loc) l/defl L/d
	Vert(LL) -0.05 9-10 >999 480	
	Vert(CT) -0.06 9-10 >999 360	
	Horz(CT) 0.01 7 n/a n/a	
	PLATES	GRIP
	MT20	244/190
	Weight: 39 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. (size) 10=0-3-8, 7=Mechanical
Max Grav 10=538(LC 1), 7=484(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-965/0, 3-4=-965/0, 4-5=-965/0
BOT CHORD 9-10=0/621, 8-9=0/965, 7-8=0/549
WEBS 5-7=-689/0, 2-10=-776/0, 5-8=0/571, 2-9=0/438, 3-9=-293/0, 4-8=-266/0

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.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 240 lb down at 2-8-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) 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: 7-10=-10, 1-6=-100
Concentrated Loads (lb)
Vert: 3=-240(F)



April 22,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2109	F1A	Floor Girder	2	1	172901688
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 21 10:43:48 2025 Page 1
ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8



Scale = 1:13.8

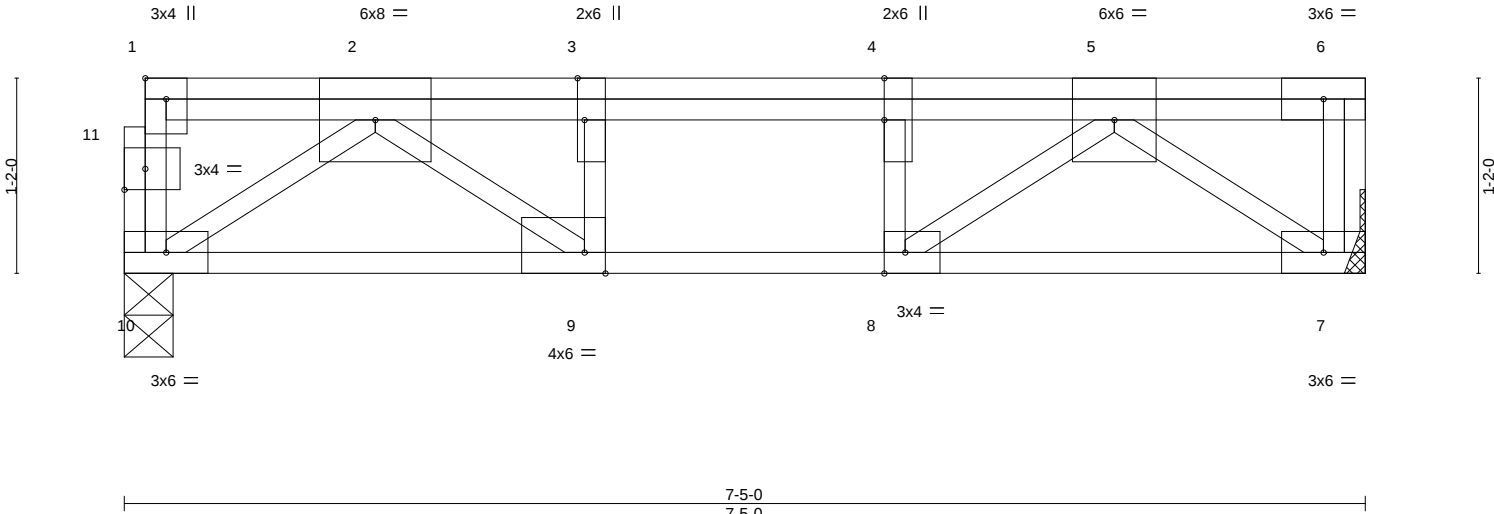


Plate Offsets (X,Y)--	[1:Edge,0-1-8], [3:0-3-0,Edge], [4:0-3-0,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-1-8]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.42	Vert(LL) -0.05	7-8 >999 480
TCDL 10.0	Lumber DOL	1.00	BC 0.61	Vert(CT) -0.07	7-8 >999 360
BCLL 0.0	Rep Stress Incr	NO	WB 0.79	Horz(CT) 0.02	7 n/a n/a
BCDL 5.0	Code IRC2021/TPI2014		Matrix-S		
					PLATES GRIP
					MT20 244/190
					Weight: 49 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.

(size) 10=0-3-8, 7=Mechanical
Max Grav 10=952(LC 1), 7=1635(LC 1)

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

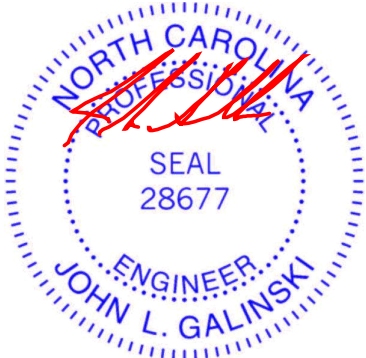
TOP CHORD 6-7=-290/0, 2-3=-2478/0, 3-4=-2478/0, 4-5=-2478/0
BOT CHORD 9-10=0/1189, 8-9=0/2478, 7-8=0/1856
WEBS 5-7=-2279/0, 2-10=-1452/0, 5-8=0/820, 2-9=0/1651, 3-9=-924/0, 4-8=-497/0

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) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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.
- 7) 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)

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-10=-10, 1-3=-100, 3-6=-503(F=-403)
- 2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-10=-10, 1-3=-100, 3-6=-503(F=-403)
- 3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-10=-10, 1-3=-100, 3-4=-503(F=-403), 4-6=-423(F=-403)
- 4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-10=-10, 1-3=-20, 3-6=-503(F=-403)
- 5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-10=-10, 1-3=-100, 3-4=-503(F=-403), 4-6=-423(F=-403)



April 22,2025

Continued on page 2

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2109	F1A	Floor Girder	2	1	172901688
					Job Reference (optional)

LOAD CASE(S)

- 6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-10=-10, 1-3=-20, 3-6=-503(F=-403)

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2109	F2	Floor	6	1	172901689
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 21 10:43:49 2025 Page 1
ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8

1-3-0

0-8-0

Scale: 1"=1'

1 1.5x3 || 2 3x4 = 3 1.5x3 || 4 1.5x3 || 5 3x4 = 6 3x4 ||

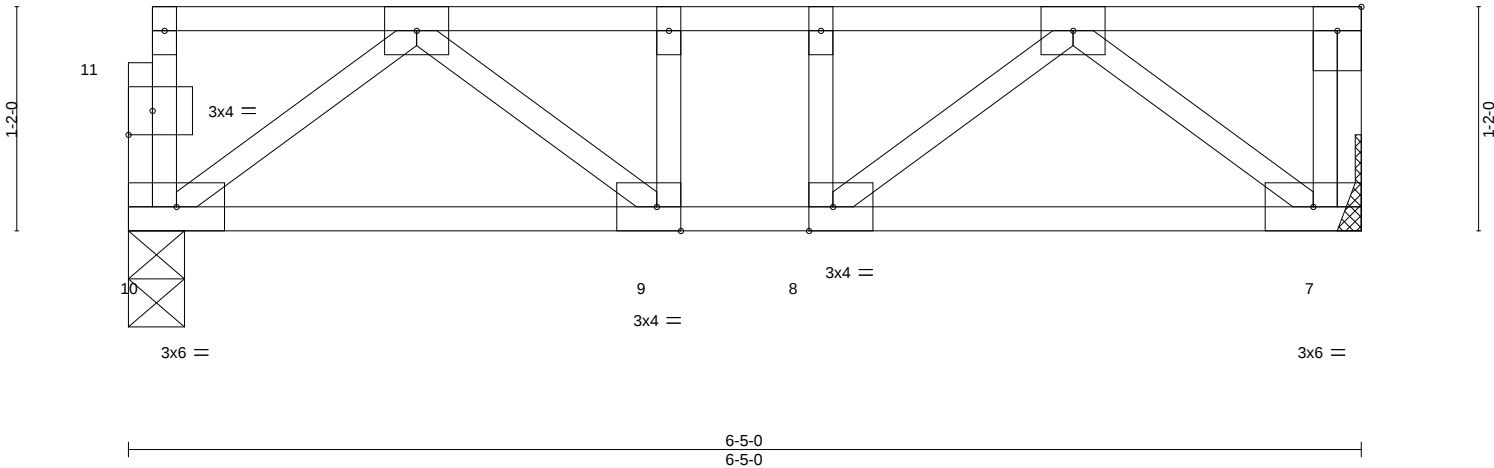


Plate Offsets (X,Y)--		[8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.21
TCDL 10.0	Lumber DOL	1.00	BC 0.24
BCLL 0.0	Rep Stress Incr	NO	WB 0.20
BCDL 5.0	Code IRC2021/TPI2014		Matrix-S
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.02 9-10 >999 480
		Vert(CT)	-0.03 9-10 >999 360
		Horz(CT)	0.00 7 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 36 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.

(size) 10=0-3-8, 7=Mechanical
Max Grav 10=468(LC 1), 7=444(LC 1)

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

TOP CHORD 2-3=-810/0, 3-4=-810/0, 4-5=-810/0
BOT CHORD 9-10=0/536, 8-9=0/810, 7-8=0/497
WEBS 5-7=-624/0, 2-10=-668/0, 5-8=0/430, 2-9=0/351

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.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 240 lb down at 2-8-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) 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: 7-10=-10, 1-6=-100
Concentrated Loads (lb)
Vert: 3=-240(F)



April 22,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2109	F2A	Floor Girder	2	1	172901690
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 21 10:43:49 2025 Page 1
ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8

1-3-0

0-8-0

Scale: 1"=1'

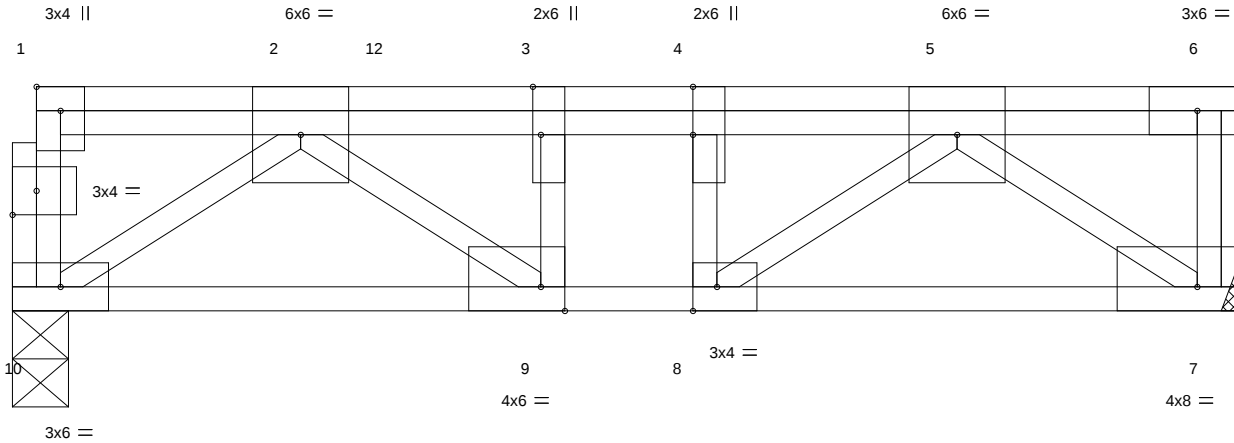


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [3:0-3-0,Edge], [4:0-3-0,Edge], [7:Edge,0-1-8], [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-1-8]			
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.25	in (loc) l/defl L/d	MT20 244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.61	Vert(LL) -0.04 8 >999 480	
BCLL 0.0	Rep Stress Incr	NO	WB 0.76	Vert(CT) -0.05 8 >999 360	
BCDL 5.0	Code IRC2021/TPI2014		Matrix-S	Horz(CT) 0.02 7 n/a n/a	
				Weight: 44 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.

(size) 10=0-3-8, 7=Mechanical
Max Grav 10=1239(LC 1), 7=2038(LC 1)

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

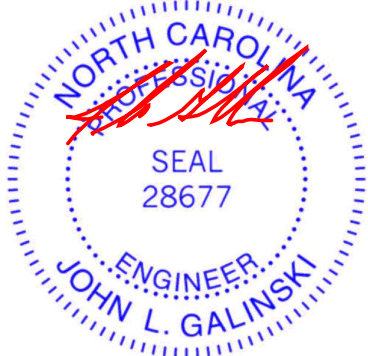
TOP CHORD 6-7=-417/0, 2-3=-2894/0, 3-4=-2894/0, 4-5=-2894/0
BOT CHORD 9-10=0/1642, 8-9=0/2894, 7-8=0/2250
WEBS 5-7=-2762/0, 2-10=-2011/0, 5-8=0/833, 2-9=0/1590, 3-9=-900/0, 4-8=-501/0

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) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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.
- 7) 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)

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-10=-10, 1-12=-100, 6-12=-707(F=-607)
- 2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-10=-10, 1-12=-100, 6-12=-707(F=-607)
- 3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-10=-10, 1-12=-100, 4-12=-707(F=-607), 4-6=-627(F=-607)
- 4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-10=-10, 1-12=-20, 3-12=-627(F=-607), 3-6=-707(F=-607)
- 5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-10=-10, 1-12=-100, 4-12=-707(F=-607), 4-6=-627(F=-607)



April 22,2025

Continued on page 2

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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2109	F2A	Floor Girder	2	1	172901690
					Job Reference (optional)

LOAD CASE(S)

- 6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-10=-10, 1-12=-20, 3-12=-627(F=-607), 3-6=-707(F=-607)

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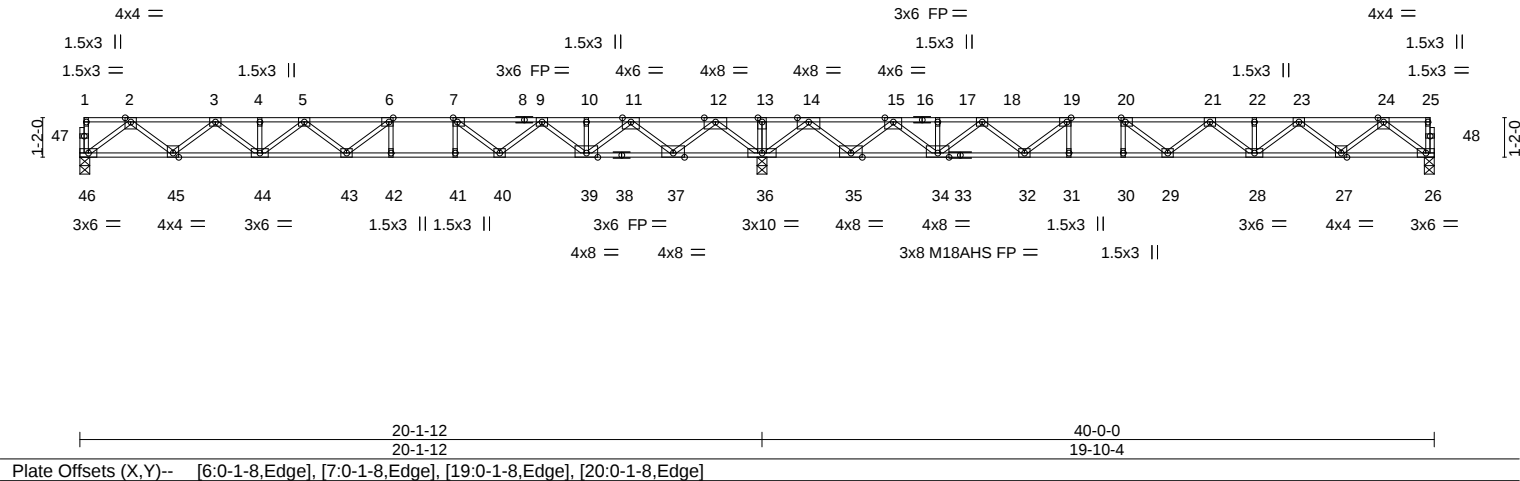
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2109	F3	Floor	6	1	172901691
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 21 10:43:50 2025 Page 1
ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f

0-1-8
1-3-0 1-9-4 1-5-12 0-1-8
Scale = 1:68.0



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 0.96	Vert(LL)	-0.34 42-43	>697	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.84	Vert(CT)	-0.45 42-43	>535	360	M18AHS	186/179
BCLL 0.0	Rep Stress Incr	YES	WB 0.79	Horz(CT)	0.06 26	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-S					Weight: 202 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 46=0-3-8, 36=0-3-8, 26=0-3-8
Max Grav 46=939(LC 3), 36=2672(LC 1), 26=925(LC 4)

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

TOP CHORD 2-3=-1983/0, 3-4=-3265/0, 4-5=-3265/0, 5-6=-3813/0, 6-7=-3774/16, 7-9=-3142/417, 9-10=-1851/1031, 10-11=-1851/1031, 11-12=0/1871, 12-13=0/4573, 13-14=0/4573, 14-15=0/1961, 15-17=-1836/1097, 17-18=-1836/1097, 18-19=-3084/478, 19-20=-3668/92, 20-21=-3706/0, 21-22=-3195/0, 22-23=-3195/0, 23-24=-1947/0

BOT CHORD 45-46=0/1179, 44-45=0/2752, 43-44=0/3717, 42-43=-16/3774, 41-42=-16/3774, 40-41=-16/3774, 39-40=-715/2628, 37-39=-1435/930, 36-37=-2912/0, 35-36=-2928/0, 34-35=-1502/939, 32-34=-775/2598, 31-32=-92/3668, 30-31=-92/3668, 29-30=-92/3668, 28-29=0/3625, 27-28=0/2698, 26-27=0/1160

WEBS 2-46=-1476/0, 2-45=0/1048, 3-45=-1000/0, 3-44=0/656, 12-36=-2084/0, 12-37=0/1650, 11-37=-1630/0, 11-39=0/1319, 9-39=-1106/0, 9-40=0/865, 5-44=-577/2, 6-43=-94/606, 7-40=-1211/0, 7-41=0/449, 6-42=-420/0, 14-36=-2063/0, 14-35=0/1631, 15-35=-1610/0, 15-34=0/1297, 24-26=-1452/0, 24-27=0/1025, 23-27=-978/0, 23-28=-7/634, 21-28=-549/23, 20-29=-77/599, 18-34=-1097/0, 18-32=0/840, 19-32=-1143/0, 19-31=0/433, 20-30=-409/0

- 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.
 - 6) CAUTION, Do not erect truss backwards.



April 22,2025

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TRENCO
A MITEK Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2109	F4	Floor	3	1	172901692
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 21 10:43:50 2025 Page 1
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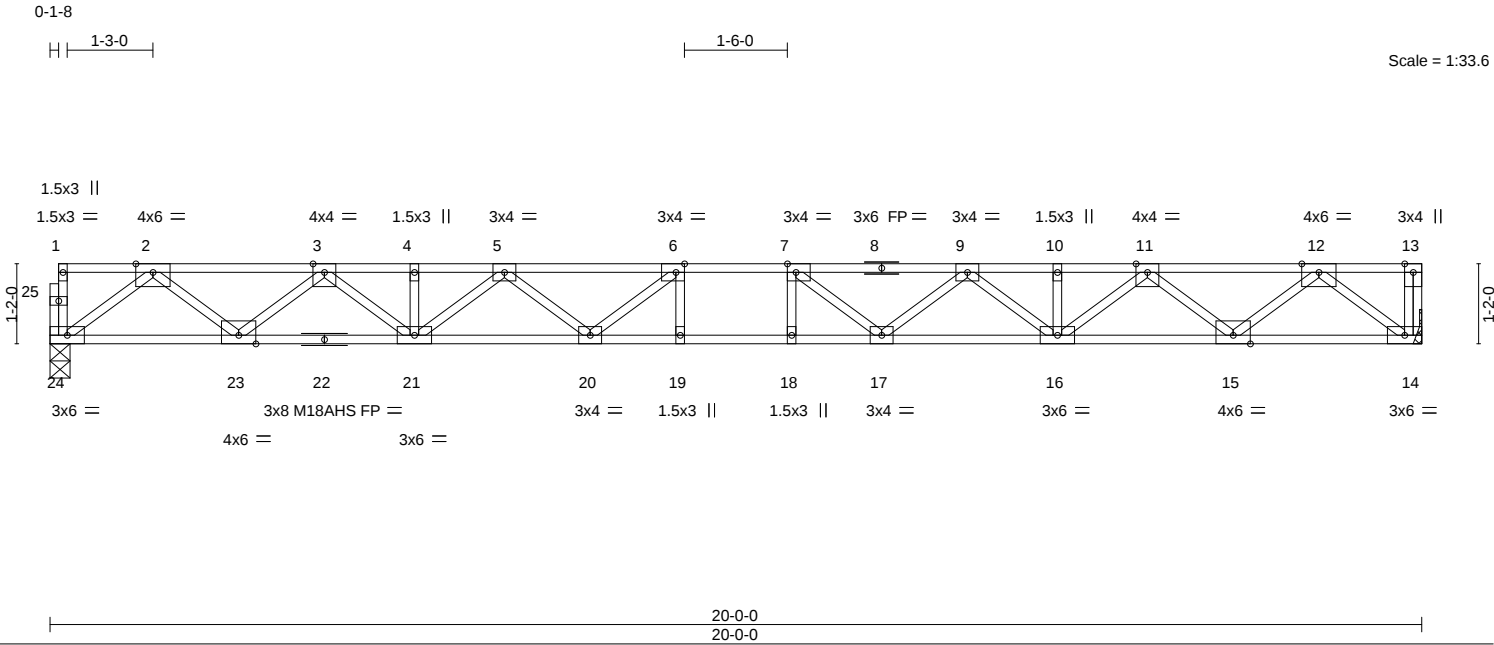


Plate Offsets (X,Y)--		[6:0-1-8,Edge], [7:0-1-8,Edge]									
LOADING (psf)		SPACING-2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0		Plate Grip DOL 1.00		TC 0.68		Vert(LL)	-0.40 18-19	>596	480	MT20	244/190
TCDL 10.0		Lumber DOL 1.00		BC 0.63		Vert(CT)	-0.55 18-19	>433	360	M18AHS	186/179
BCLL 0.0		Rep Stress Incr YES		WB 0.60		Horz(CT)	0.08 14	n/a	n/a		
BCDL 5.0		Code IRC2021/TPI2014		Matrix-S						Weight: 102 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 4-10-14 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. (size) 24=0-3-8, 14=Mechanical
Max Grav 24=1080(LC 1), 14=1086(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2335/0, 3-4=-3970/0, 4-5=-3970/0, 5-6=-4853/0, 6-7=-5128/0, 7-9=-4853/0, 9-10=-3970/0, 10-11=-3970/0, 11-12=-2335/0
BOT CHORD 23-24=0/1363, 21-23=0/3273, 20-21=0/4568, 19-20=0/5128, 18-19=0/5128, 17-18=0/5128, 16-17=0/4568, 15-16=0/3273, 14-15=0/1364
WEBS 2-24=-1707/0, 2-23=0/1265, 3-23=-1221/0, 3-21=0/890, 5-21=-764/0, 5-20=0/508, 6-20=-645/96, 12-14=-1711/0, 12-15=0/1264, 11-15=-1221/0, 11-16=0/890, 9-16=-763/0, 9-17=0/508, 7-17=-645/96

- 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) 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.



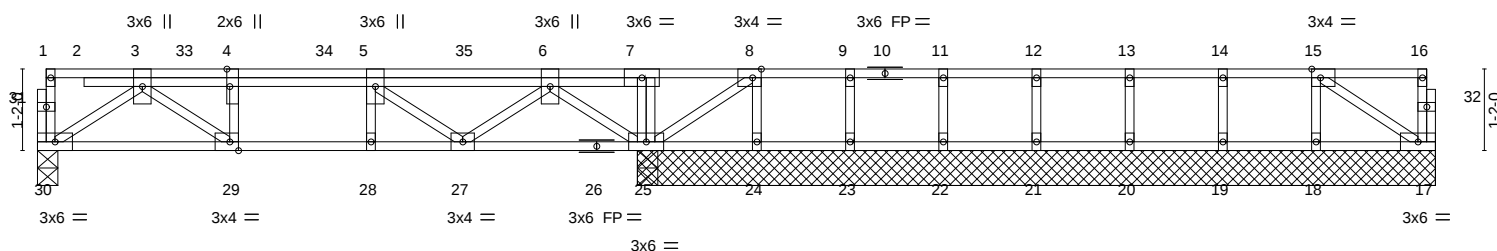
April 22,2025

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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompoments.com)

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Edenton, NC 27932

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 21 10:43:51 2025 Page 1
ID:1r EmDdwRK6OIVS bq0alPzOtGL-RfC?PsB70Hq3NSqPanL8w3uITxbGKwRCDoj7J4zJC?f

Horizontal scale bar with segments labeled 1-3-0, 1-10-0, 1-4-12, 1-2-8, 1-2-8, 1-2-8, 1-2-8, 1-2-8, 1-2-8, 1-4-12, and 0-1-8. Scale = 1:33.0



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

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

REACTIONS. All bearings 11-5-0 except (jt=length) 30=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 17 except 24=274(LC 4)
Max Grav All reactions 250 lb or less at joint(s) 23, 17, 19, 20, 21, 22 except 30=568(LC 1), 25=1257(LC 1),
25=1257(LC 1). 18=252(LC 4)

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

TOP CHORD	3-4=-1146/0, 4-5=-1146/0, 5-6=-663/0, 6-7=0/780, 7-8=0/796
BOT CHORD	29-30=0/706, 28-29=0/1146, 27-28=0/1146
WEBS	3-30=862/0, 3-29=0/582, 6-25=-1155/0, 6-27=0/624, 5-27=-602/0, 4-29=-309/0, 8-25=-825/0, 8-24=0/278

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 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 100 lb uplift at joint(s) 17 except (jt=lb) 24=274.
- 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 backwoods.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 190 lb down at 2-1-12, and 138 lb down at 4-1-12, and 203 lb down at 6-1-12 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).

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 17-30=-10, 1-16=-100
Concentrated Loads (lb)
Vert: 33=-123(B) 34=-123(B) 35=-123(B)



April 22, 2025



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2109	F5	Floor	4	1	172901694

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8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 21 10:43:51 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qIPzQtGL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-3-0

2-5-8

0-1-8

Scale = 1:33.1

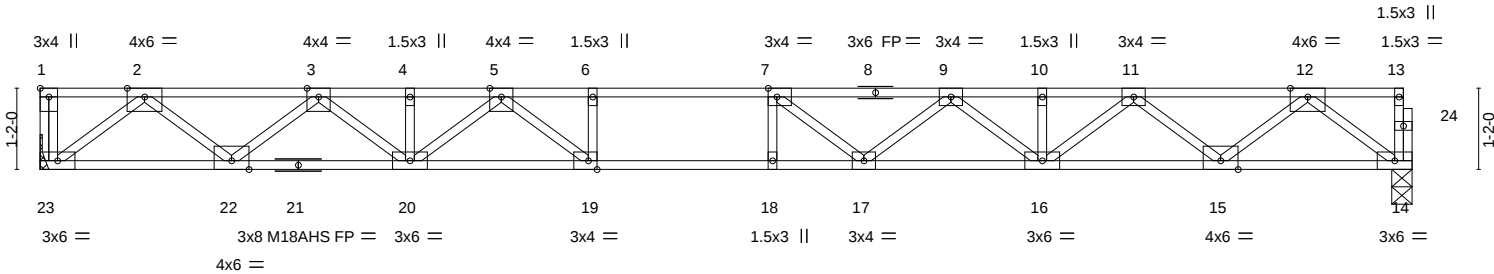


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [7:0-1-8,Edge], [19:0-1-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.60
TCDL 10.0	Lumber DOL	1.00	BC 0.79
BCLL 0.0	Rep Stress Incr	YES	WB 0.59
BCDL 5.0	Code	IRC2021/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.37	18	>625
Vert(CT)	-0.51	18	>456
Horz(CT)	0.08	14	n/a
PLATES	GRIP		
MT20	244/190		
M18AHS	186/179		
Weight: 99 lb	FT = 20%F, 11%E		

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(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.

(size) 23=Mechanical, 14=0-3-8
Max Grav 23=1070(LC 1), 14=1064(LC 1)

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

TOP CHORD 2-3=-2296/0, 3-4=-3893/0, 4-5=-3893/0, 5-6=-4917/0, 6-7=-4917/0, 7-9=-4737/0, 9-10=-3888/0, 10-11=-3888/0, 11-12=-2295/0
BOT CHORD 22-23=0/1345, 20-22=0/3206, 19-20=0/4434, 18-19=0/4917, 17-18=0/4917, 16-17=0/4478, 15-16=0/3212, 14-15=0/1342
WEBS 2-23=-1687/0, 2-22=0/1239, 3-22=-1184/0, 3-20=0/877, 12-14=-1681/0, 12-15=0/1240, 11-15=-1194/0, 11-16=0/863, 5-20=-690/0, 5-19=0/942, 9-16=-754/0, 9-17=0/520, 7-17=-619/160, 6-19=-402/0

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) 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.



April 22,2025

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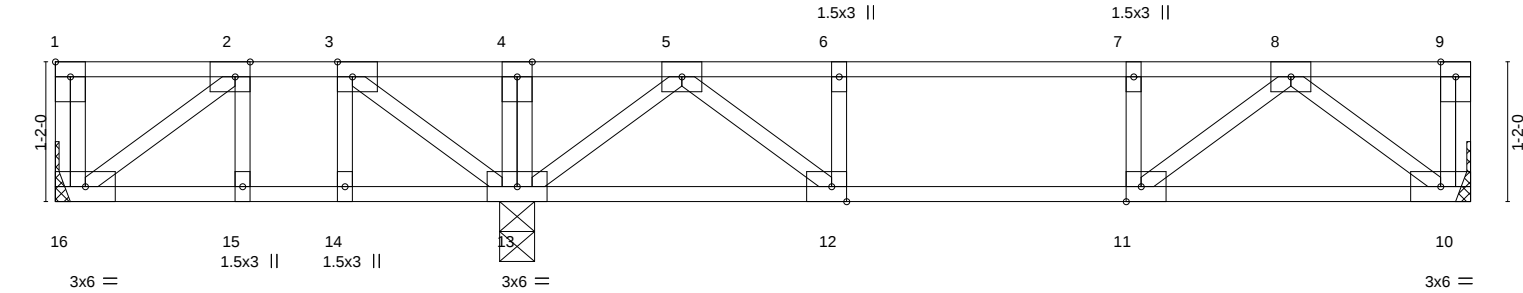
Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2109	F6	Floor	3	1	172901695
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 21 10:43:52 2025 Page 1
ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:19.2



3-10-4				11-9-12					
3-10-4				7-11-8					
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,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 0.26	Vert(LL)	-0.03 11	>999 480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC 0.18	Vert(CT)	-0.03 10-11	>999 360		
BCLL	0.0	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.01 10	n/a n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-S				Weight: 63 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 6-0-0 oc bracing.

REACTIONS.

(size) 16=Mechanical, 10=Mechanical, 13=0-3-8
Max Grav 16=223(LC 10), 10=419(LC 7), 13=705(LC 9)

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

TOP CHORD 5-6=-726/0, 6-7=-726/0, 7-8=-726/0
BOT CHORD 12-13=0/397, 11-12=0/726, 10-11=0/456
WEBS 2-16=-269/7, 3-13=-358/0, 5-13=-595/0, 5-12=0/443, 8-10=-572/0, 8-11=0/344

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.



April 22,2025

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Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2109	F7	Floor	7	1	172901696
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 21 10:43:52 2025 Page 1
ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8



Scale = 1:15.0

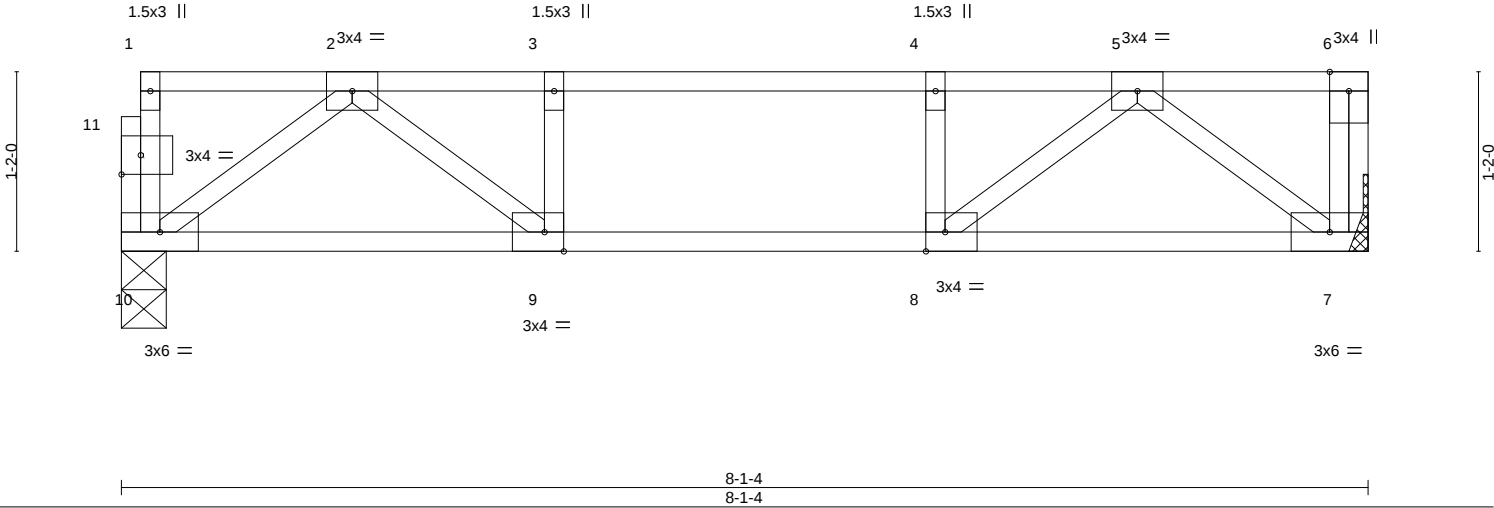


Plate Offsets (X,Y)--		[8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.28
TCDL 10.0	Lumber DOL	1.00	BC 0.22
BCLL 0.0	Rep Stress Incr	YES	WB 0.21
BCDL 5.0	Code	IRC2021/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.03 9-10	>999	480
Vert(CT)	-0.04 9-10	>999	360
Horz(CT)	0.01 7	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 41 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. (size) 10=0-3-8, 7=Mechanical
Max Grav 10=426(LC 1), 7=432(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-774/0, 3-4=-774/0, 4-5=-774/0
BOT CHORD 9-10=0/472, 8-9=0/774, 7-8=0/474
WEBS 2-10=-588/0, 2-9=0/431, 5-7=-595/0, 5-8=0/430

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.



April 22,2025

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Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2109	F8	FLOOR	5	1	172901697
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 21 10:43:52 2025 Page 1

ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1-3-0 1-10-12

Scale = 1:14.2

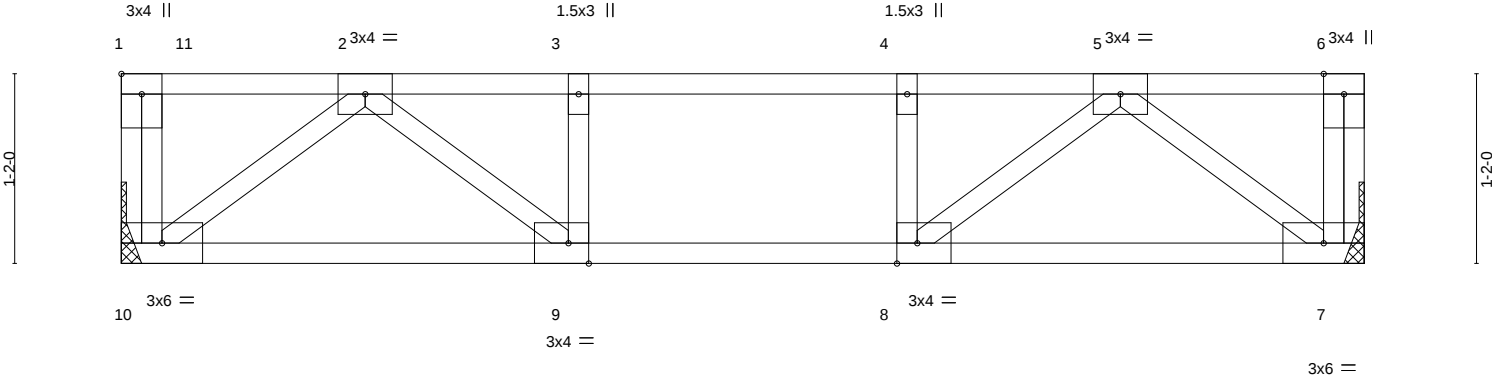


Plate Offsets (X,Y)--		[1:Edge,0-1-8], [8:0-1-8,Edge], [9:0-1-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.73
TCDL 10.0	Lumber DOL	1.00	BC 0.29
BCLL 0.0	Rep Stress Incr	NO	WB 0.23
BCDL 5.0	Code IRC2021/TPI2014		Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.03 9-10	>999	480
Vert(CT)	-0.04 9-10	>999	360
Horz(CT)	0.01 7	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 40 lb		FT = 20%F, 11%E	

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E(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.

(size) 10=Mechanical, 7=Mechanical
Max Grav 10=1261(LC 1), 7=452(LC 1)

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

TOP CHORD 1-10=-651/0, 2-3=-851/0, 3-4=-851/0, 4-5=-851/0
BOT CHORD 9-10=0/783, 8-9=0/851, 7-8=0/502
WEBS 2-10=-982/0, 2-9=-25/302, 5-7=-630/0, 5-8=0/489

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 900 lb down at 0-6-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-10=-10, 1-6=-100
Concentrated Loads (lb)
Vert: 11=-900(F)



April 22,2025

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 195 Ballard Road
J0425-2109	F9	FLOOR	4	1	172901698
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 21 10:43:53 2025 Page 1
ID:1r_EmDdwRK6QIVS_bq0qlPzQtGL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f

1-3-0 2-0-12

Scale = 1:14.5

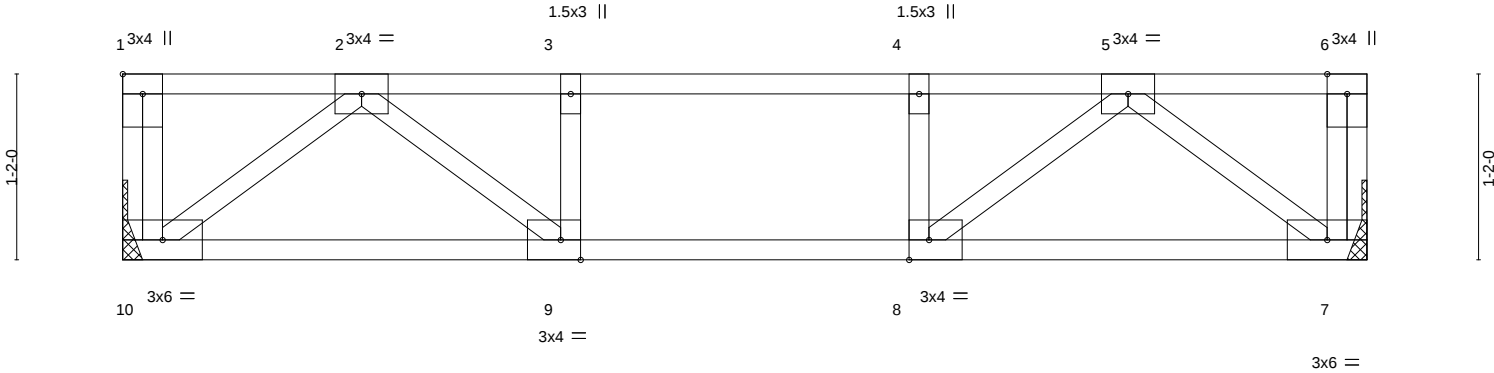


Plate Offsets (X,Y)--	[1:Edge,0-1-8], [8:0-1-8,Edge], [9:0-1-8,Edge]
	7-9-12

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 0.23	Vert(LL)	-0.03	7-8	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.20	Vert(CT)	-0.03	9-10	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.01	7	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-S						Weight: 41 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.

(size) 10=Mechanical, 7=Mechanical
Max Grav 10=416(LC 1), 7=416(LC 1)

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

TOP CHORD 2-3=-724/0, 3-4=-724/0, 4-5=-724/0
BOT CHORD 9-10=0/455, 8-9=0/724, 7-8=0/455
WEBS 2-10=-571/0, 2-9=0/388, 5-7=-571/0, 5-8=0/388

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.



April 22,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

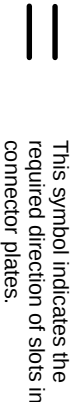
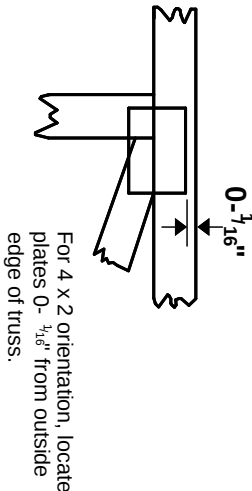
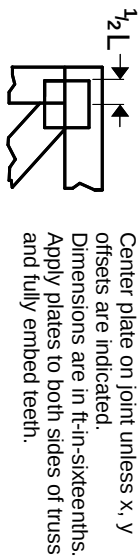
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompoments.com)

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818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



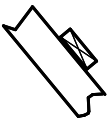
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

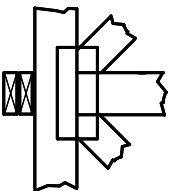
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

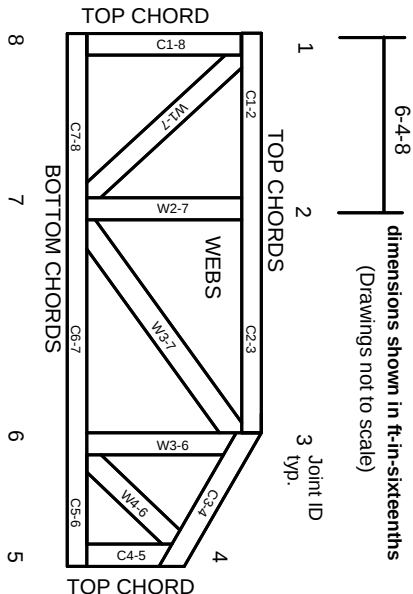


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

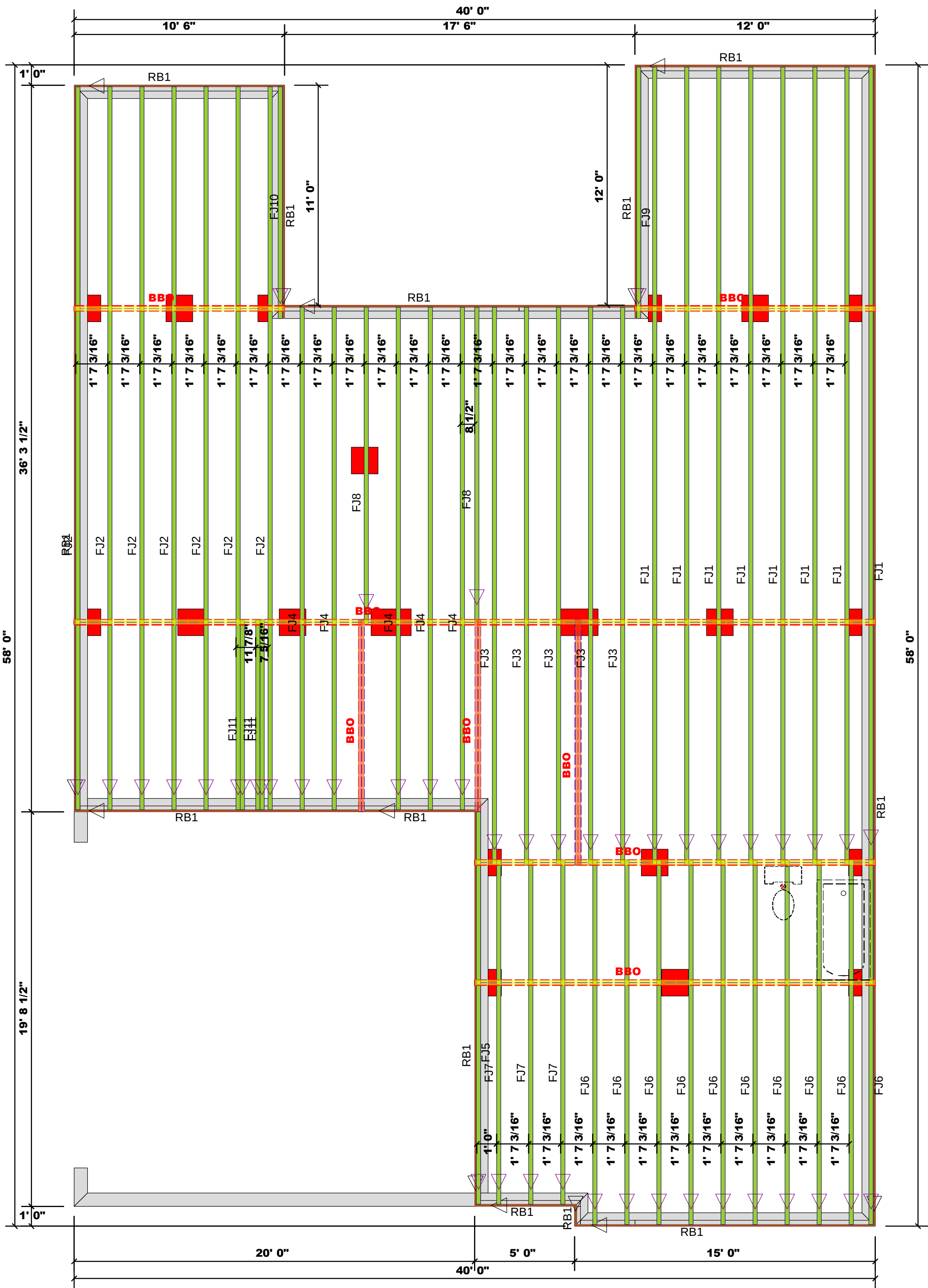
Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023



- Plumbing Drop Notes
1. Plumbing drop locations shown are NOT exact.
 2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
 3. Adjust spacing as needed not to exceed 24"oc.

- Dimension Notes
1. All exterior wall to wall dimensions are to face of stud unless noted otherwise
 2. All interior wall dimensions are to face of stud unless noted otherwise
 3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

Products				
PlotID	Length	Product	Plies	Net Qty
FJ1	40' 0"	11 7/8" NI-40x	1	8
FJ2	37' 0"	11 7/8" NI-40x	1	7
FJ3	28' 0"	11 7/8" NI-40x	1	5
FJ4	26' 0"	11 7/8" NI-40x	1	5
FJ5	20' 0"	11 7/8" NI-40x	1	1
FJ6	19' 0"	11 7/8" NI-40x	1	10
FJ7	18' 0"	11 7/8" NI-40x	1	3
FJ8	16' 0"	11 7/8" NI-40x	1	2
FJ9	13' 0"	11 7/8" NI-40x	1	1
FJ10	12' 0"	11 7/8" NI-40x	1	1
FJ11	10' 0"	11 7/8" NI-40x	1	3
RB1	12' 0"	1 1/8" x 11 7/8" Rim Board	1	19

1 Truss Placement Plan
Scale: 1/4"=1'

▲ = Denotes Left End of Truss
(Reference Engineered Truss Drawing)

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (2))			
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADERS/BEAMS			
END REACTION (UP TO)	END REACTION (UP TO)	END REACTION (UP TO)	END REACTION (UP TO)
1700	2550	3400	
3400	5100	6800	2
5100	7650	10200	3
6800	10200	13600	4
8500	12750	17000	5
10200	15300		6
11900			7
13600			8
15300			9

BUILDER

New Home, Inc.

JOB NAME

Lot 195 Ballard Road

PLAN

The Guilford - Georgian Alt., 2GLS

SEAL DATE

04/01/23

QUOTE #

JOB #

CITY / CO.

Fuquay-Varina / Harnett

ADDRESS

1949 Ballard Road

MODEL

Crawl Space

DATE REV.

05/06/25

DRAWN BY

Jonathan Landry

SALES REP.

Jonathan Landry

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.

These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BC-SB-81 and BC-SB-83 provided with the truss delivery package or online @ sbcindustry.com

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature Jonathan Landry
Jonathan Landry



ROOF & FLOOR
TRUSSES & BEAMS

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Fax: (910) 864-4444