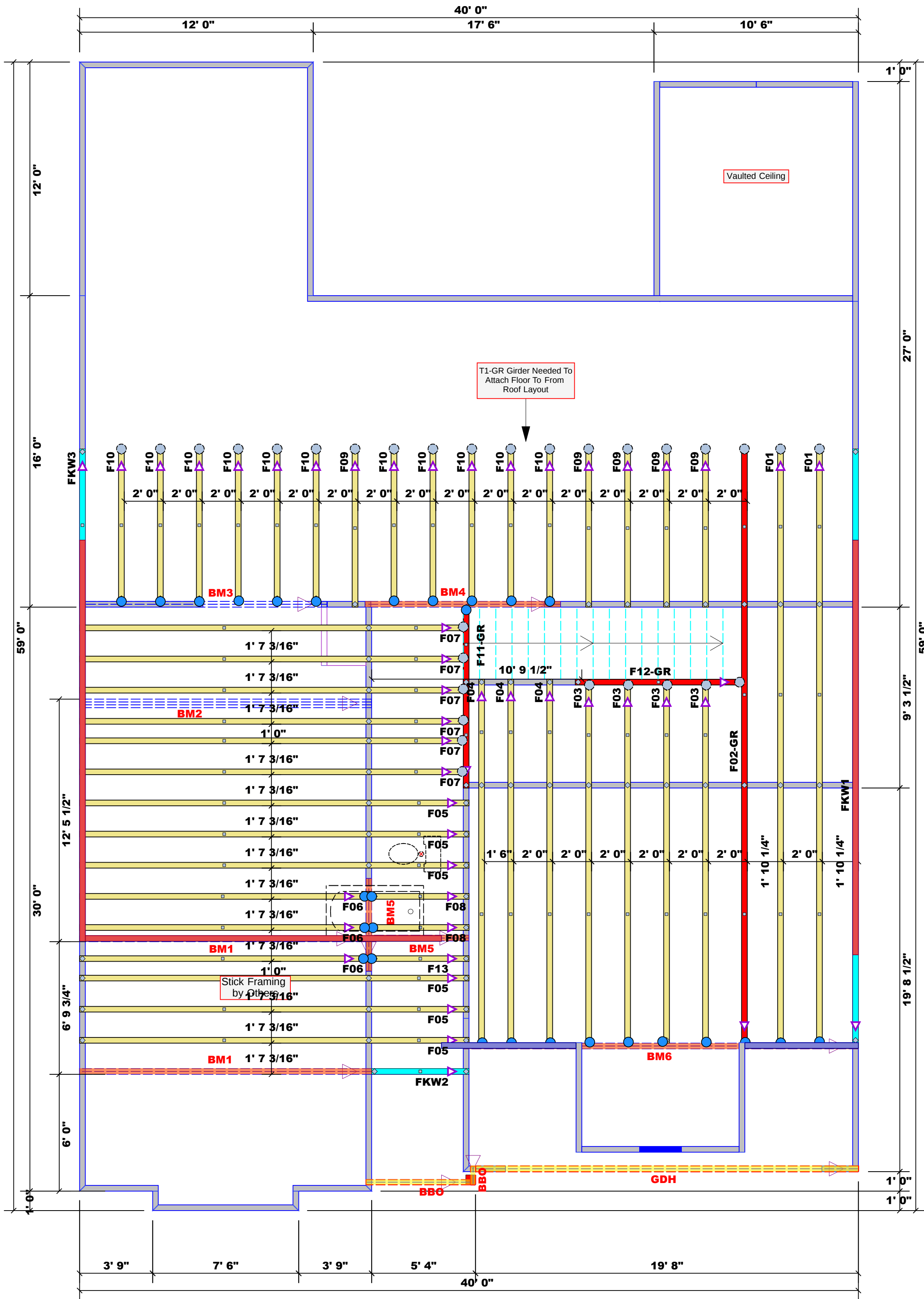




All Headers Are Considered 2X10 Beams Unless Otherwise Noted

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

[Hatch]	5' 1 3/8" Walls
[Hatch]	Second Floor Walls
[Hatch]	Vaulted Ceiling
[Hatch]	Drop Beam
[Hatch]	Flush Beam

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
●	HUS410	USP	28	NA	16d/3-1/2"	16d/3-1/2"
●	MSH422	USP	30	Varies	10d/3"	10d/3"

Products				
PlotID	Length	Product	Plies	Net Qty
BM1	15' 0"	1-3/4"x 14" LVL Kerto-S	2	4
BM2	15' 0"	1-3/4"x 14" LVL Kerto-S	3	3
BM3	13' 0"	1-3/4"x 14" LVL Kerto-S	2	2
BM4	11' 0"	1-3/4"x 14" LVL Kerto-S	2	2
BM5	5' 0"	1-3/4"x 14" LVL Kerto-S	2	4
BM6	21' 0"	1-3/4"x 23-7/8" 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 D502.5(1) & (2))

NUMBER OF JACK STUDS REQUIRED @ EA END OF

HEADERS/GIRDERS

END REACTION (UP TO)

END REACTION (UP TO)

END REACTION (UP TO)

END REACTION (UP TO)

END REACTION (UP TO)

END REACTION (UP TO)

END REACTION (UP TO)

END REACTION (UP TO)

BUILDER	New Home Inc.
JOB NAME	Lot 25 Duncans Creek
PLAN	The Guilford - French Country
SEAL DATE	Seal Date
QUOTE #	Quote #
JOB #	250918 - B

CITY / CO.	Lillington / Harnett
ADDRESS	395 Beacon Hill Road
MODEL	Floor
DATE REV.	10/2/25
DRAWN BY	Johnnie Baggett
SALES REP.	House Account

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 BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

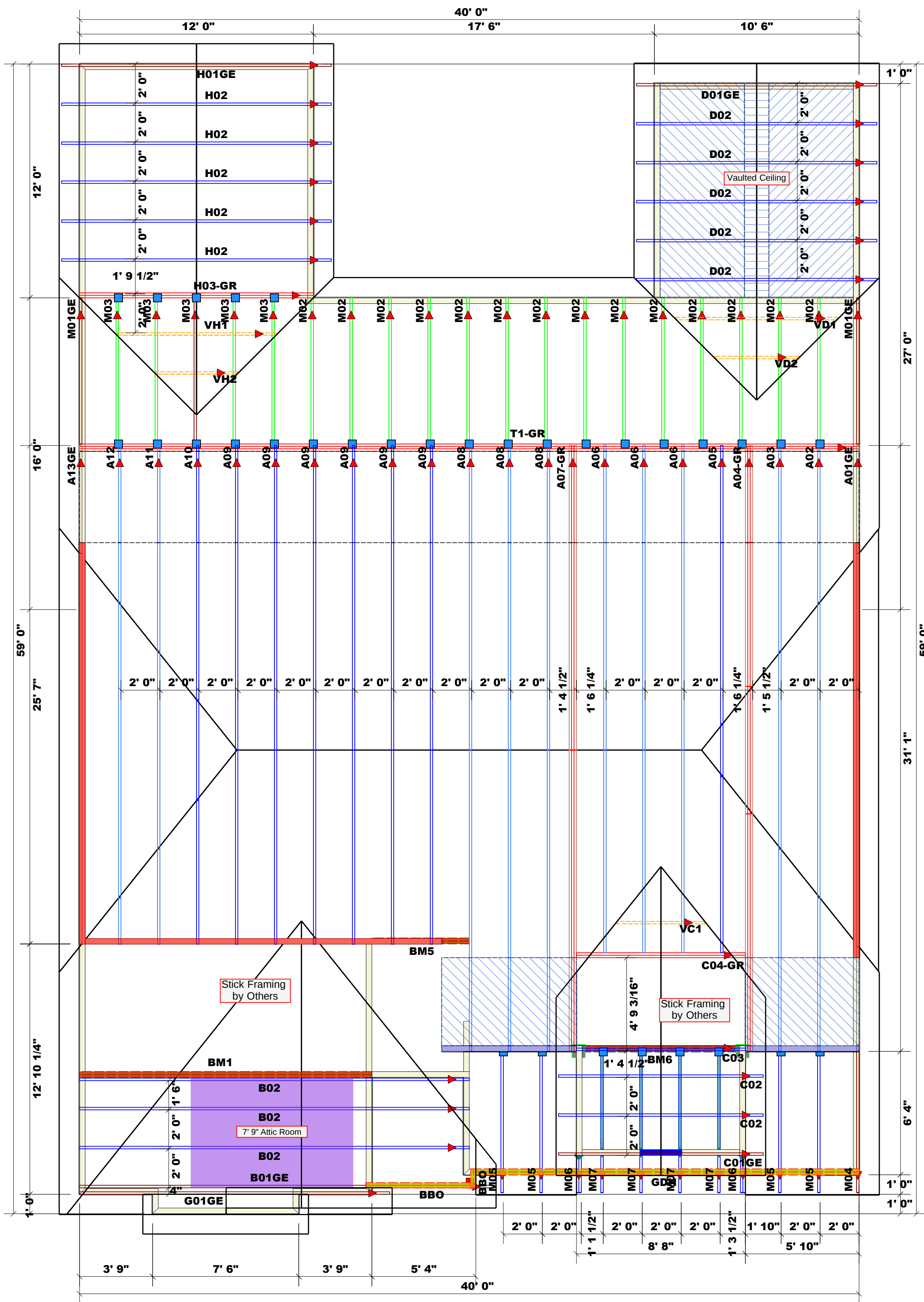
Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions 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 _____
Sales Area
Sales Area



ROOF & FLOOR
TRUSSES & BEAMS

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



All Headers Are
Considered 2X10 Beams
Unless Otherwise Noted

All Walls Shown Are
Considered Load Bearing

Roof Area = 2872.59 sq.ft.
Ridge Line = 92.15 ft.
Hip Line = 65.81 ft.
Horiz. OH = 188.29 ft.
Raked OH = 166.91 ft.
Decking = 99 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' 1 3/8" Walls
	Second Floor Walls
	Vaulted Ceiling
	Drop Beam
	Flush Beam

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	HUS26	USP	32	NA	16d/3-1/2"	16d/3-1/2"
	THD28-2	USP	2	NA	16d/3-1/2"	10d/3"

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 D502.5(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	
5100	7650	10200	
6800	10200	13600	
8500	12750	17000	
10200	15300		
11900			
13600			
15300			

BUILDER	New Home Inc.
JOB NAME	Lot 25 Duncans Creek
PLAN	The Guilford - French Country
SEAL DATE	Seal Date
QUOTE #	Quote #
JOB #	250918 - A

CITY / CO.	Lillington / Harnett
ADDRESS	395 Beacon Hill Road
MODEL	Roof
DATE REV.	10/2/25
DRAWN BY	Johnnie Baggett
SALES REP.	House Account

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 BCSI-B1 and BCSI-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 _____ Sales Area
Sales Area

comtech

**ROOF & FLOOR
TRUSSES & BEAMS**

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

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: 250918-A
Lot 25 Duncan's Creek

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

Pages or sheets covered by this seal: I76809469 thru I76809506

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

North Carolina COA: C-0844



October 3, 2025

Gilbert, Eric

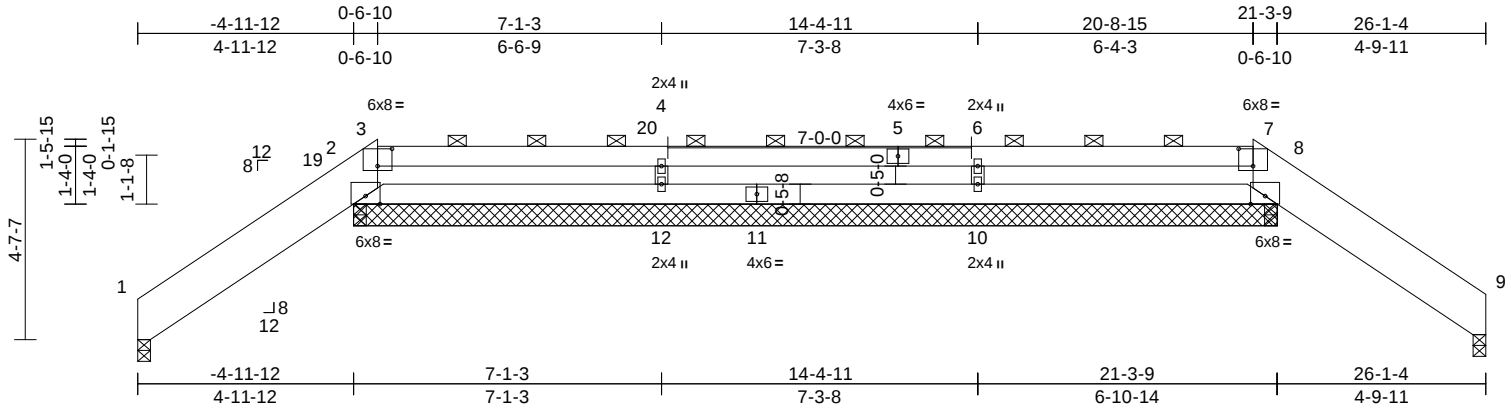
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	176809469
250918-A	A01GE	Hip Structural Gable	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:21
ID:MdOsYneLDwdtT06Tx4G5xQyXMCE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCD0i7J4zJC?f

Page: 1



Scale = 1:53.1

Plate Offsets (X, Y): [3:0-4-0,0-4-13], [7:0-4-0,0-4-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.01	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	10-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.00	12-15	>999	240	Weight: 166 lb	FT = 25%

LUMBER

TOP CHORD	2x12 SP No.1 *Except* 3-5,5-7:2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(size)	1=0-3-8, 2=21-3-9, 7=21-3-9, 8=21-3-9, 9=0-3-8, 10=21-3-9, 12=21-3-9
Max Horiz	1=88 (LC 9)
Max Uplift	1=-39 (LC 13), 2=-41 (LC 9), 7=-113 (LC 9), 8=-98 (LC 13), 9=-39 (LC 13), 10=-63 (LC 9), 12=-67 (LC 8)
Max Grav	1=151 (LC 20), 2=578 (LC 1), 7=360 (LC 25), 8=362 (LC 20), 9=170 (LC 20), 10=565 (LC 25), 12=587 (LC 26)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-122/185, 2-3=-78/64, 3-4=-50/66, 4-6=-50/66, 6-7=-50/66, 7-8=-59/140, 8-9=-75/136
BOT CHORD	2-12=-37/80, 10-12=-23/80, 8-10=-45/80
WEBS	6-10=-427/175, 4-12=-439/174

NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; 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 5-6-6, Exterior(2R) 5-6-6 to 11-9-1, Interior (1) 11-9-1 to 25-8-10, Exterior(2E) 25-8-10 to 30-11-4 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.
- Provide adequate drainage to prevent water ponding.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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 39 lb uplift at joint 1, 113 lb uplift at joint 7, 39 lb uplift at joint 9, 41 lb uplift at joint 2, 98 lb uplift at joint 8, 63 lb uplift at joint 10, 67 lb uplift at joint 12, 41 lb uplift at joint 2 and 98 lb uplift at joint 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



October 3, 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
A MiTek Affiliate

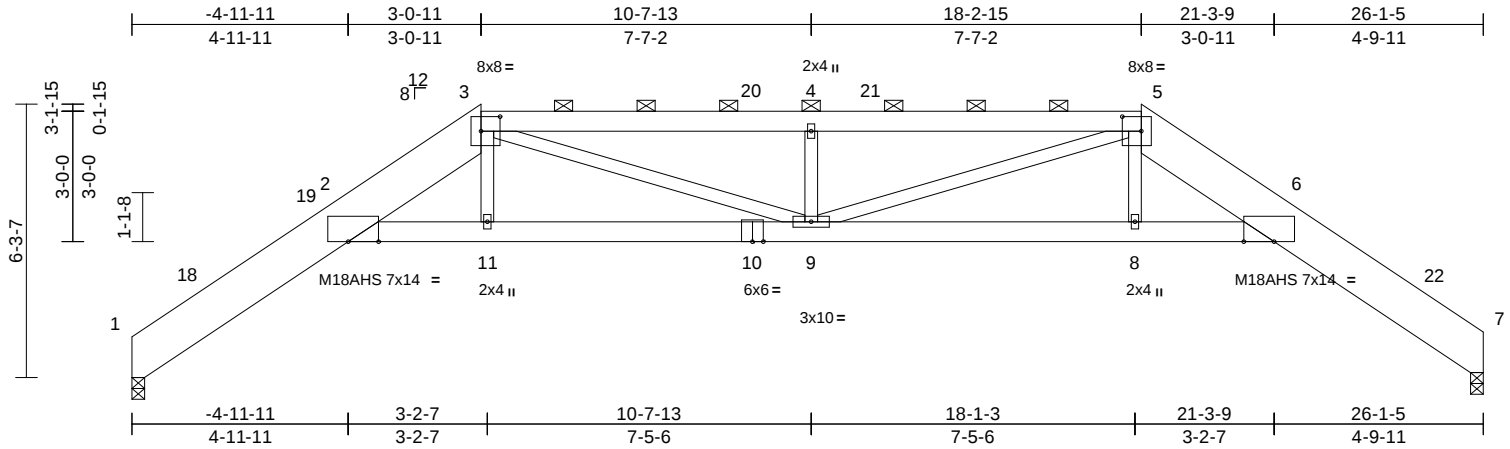
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	176809470
250918-A	A02	Hip	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:22
ID:v2_19JtiQyLY5XKtMnamXkyXMAF-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwRcDoi7J4zJC?f

Page: 1



Scale = 1:53

Plate Offsets (X, Y): [2:0-8-6,Edge], [3:0-5-4,0-4-0], [5:0-5-4,0-4-0], [6:0-8-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.29	9	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.59	9-11	>623	240	M18AHS 186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.58	7	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.20	9-11	>999	240	Weight: 213 lb FT = 25%

LUMBER

TOP CHORD 2x12 SP 2400F 2.0E *Except* 3-5:2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-10-1 max.): 3-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=0-3-8, 7=0-3-8
Max Horiz 1=130 (LC 9)
Max Uplift 1=-5 (LC 12), 7=-10 (LC 13)
Max Grav 1=1265 (LC 1), 7=1253 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-679/200, 2-3=-3044/410,
3-4=-3799/565, 4-5=-3799/565,
5-6=-3006/446, 6-7=-674/171

BOT CHORD 2-11=-282/3052, 9-11=-280/3073,
8-9=-289/3015, 6-8=-292/2995

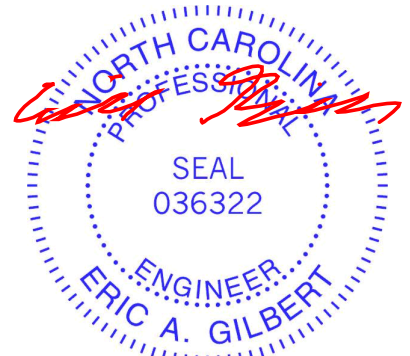
WEBS 3-11=0/422, 4-9=-429/176, 3-9=-221/904,
5-8=0/416, 5-9=-204/959

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; 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 8-0-6, Exterior(2R) 8-0-6 to 14-3-1, Interior (1) 14-3-1 to 23-2-10, Exterior(2R) 23-2-10 to 29-5-5, Interior (1) 29-5-5 to 30-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.

- 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1 and 10 lb uplift at joint 7.
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



October 3, 2025

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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
A MiTek Affiliate

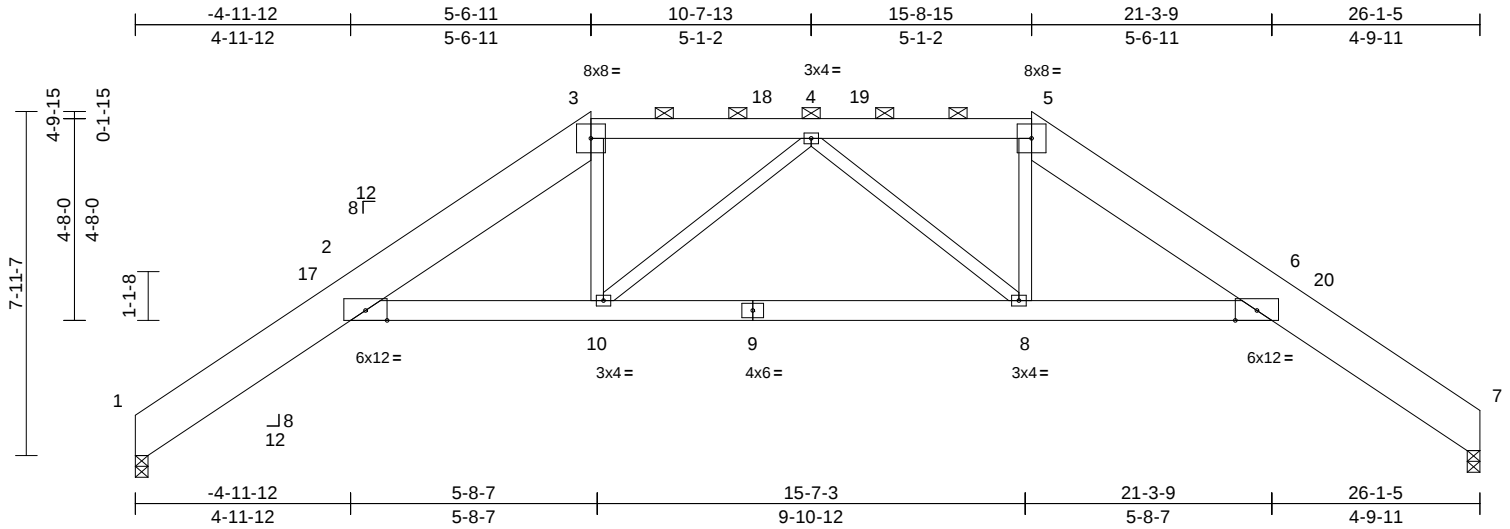
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	176809471
250918-A	A03	Hip	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:22
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Page: 1



Scale = 1:53.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.26	10-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.53	10-13	>701	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.62	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.18	10-13	>999	240	Weight: 228 lb	FT = 25%

LUMBER

TOP CHORD 2x12 SP 2400F 2.0E *Except* 3-5:2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (5-2-1 max.): 3-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=0-3-8, 7=0-3-8
Max Horiz 1=170 (LC 9)
Max Uplift 1=-22 (LC 12), 7=-27 (LC 13)
Max Grav 1=1265 (LC 1), 7=1253 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-679/202, 2-3=-2249/343,
3-4=-2158/405, 4-5=-2133/380,
5-6=-2236/349, 6-7=-674/172

BOT CHORD 2-10=-190/2146, 8-10=-234/2262,
6-8=-149/2120

WEBS 3-10=0/422, 4-10=-270/204, 5-8=0/433,
4-8=-299/187

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; 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 10-6-6, Exterior(2R) 10-6-6 to 16-9-1, Interior (1) 16-9-1 to 20-8-10, Exterior(2R) 20-8-10 to 26-11-5, Interior (1) 26-11-5 to 30-11-4 zone; C-C for members and forces & MWFRS for reactions shown; 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1, 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 22 lb uplift at joint 1 and 27 lb uplift at joint 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



October 3, 2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

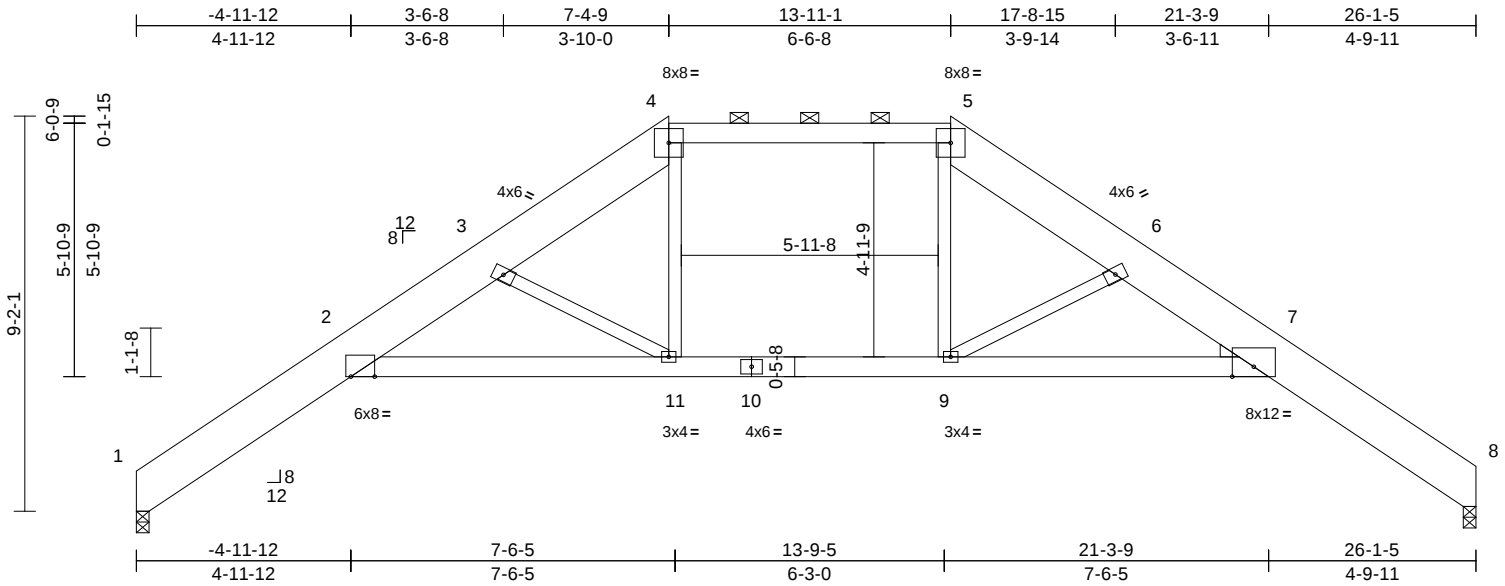
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-A	A04-GR	Hip Girder	1	3	176809472
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.30 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:22
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Page: 1



Scale = 1:53.5

Plate Offsets (X, Y): [2:0-6-10,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.28	9-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.52	9-17	>708	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.48	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.16	9-17	>999	240	Weight: 718 lb	FT = 25%

LUMBER

TOP CHORD 2x12 SP No.1 *Except* 4-5:2x6 SP No.1,
5-8:2x12 SP 2400F 2.0E
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or
6-0-0 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 1=0-3-8, 8=0-3-8
Max Horiz 1=199 (LC 5)
Max Uplift 1=-53 (LC 8), 8=-157 (LC 9)
Max Grav 1=1814 (LC 15), 8=3770 (LC 16)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-2=-1058/146, 2-3=-4742/195,
3-4=-3817/126, 4-5=-3225/137,
5-6=-4031/140, 6-7=-6209/192,
7-8=-2072/156

BOT CHORD 2-11=-155/4878, 9-11=-20/3279,
7-9=-96/7225

WEBS 4-11=-10/1614, 3-11=-1877/213,
5-9=-22/2369, 6-9=-4847/318

NOTES

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x12 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web 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=130mph (3-second gust) Vasd=103mph; TCDL=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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 1, 8 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 53 lb uplift at joint 1 and 157 lb uplift at joint 8.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2821 lb down and 141 lb up at 26-3-5 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 (lb/ft)
Vert: 1-13=-84, 4-13=-60, 4-5=-60, 5-7=-60, 7-8=-84, 12-15=-20
Concentrated Loads (lb)

Vert: 15=-2583 (B)



October 3, 2025

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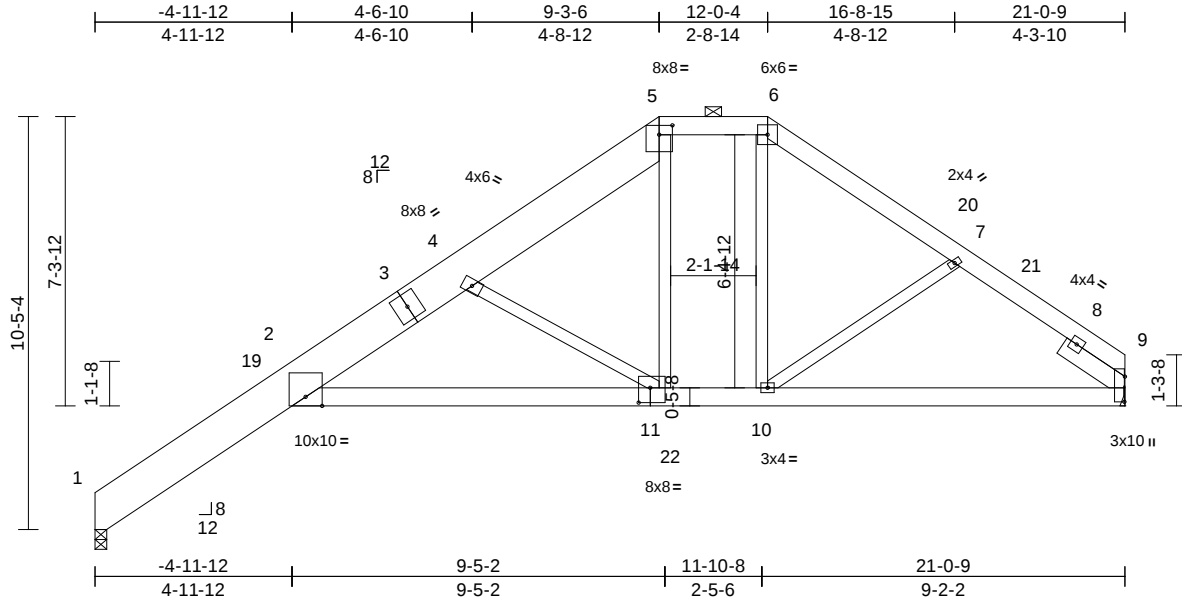
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	176809473
250918-A	A05	Hip	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:22
ID:ke5pAAI9V2B36mXmmJd4UNyXLI?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:58.2

Plate Offsets (X, Y): [5:0-4-0,0-2-13], [9:0-7-10,0-0-3], [11:0-3-8,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.23	11-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.44	11-18	>700	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.27	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.18	11-18	>999	240	Weight: 206 lb	FT = 25%

LUMBER

TOP CHORD	2x12 SP No.1 *Except* 5-6,6-9:2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
SLIDER	Right 2x6 SP No.2 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(size)	1=0-3-8, 9= Mechanical
Max Horiz	1=229 (LC 9)
Max Uplift	1=-33 (LC 12), 9=-29 (LC 13)
Max Grav	1=1147 (LC 19), 9=1141 (LC 20)

FORCES

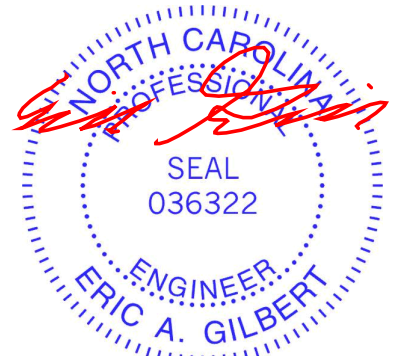
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-676/80, 2-4=-2283/436, 4-5=-1556/311, 5-6=-1091/298, 6-7=-1340/305, 7-9=-1413/303
BOT CHORD	2-10=-443/2510, 9-10=-167/1089
WEBS	5-11=-135/1011, 6-10=-1/316, 7-10=-141/165, 4-11=-1590/405

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; 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 14-3-1, Exterior(2E) 14-3-1 to 16-11-15, Exterior(2R) 16-11-15 to 23-2-10, Interior (1) 23-2-10 to 26-0-5 zone;C-C for members and forces & MWFRS for reactions shown; 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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) 1 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 29 lb uplift at joint 9 and 33 lb uplift at joint 1.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



October 3,2025

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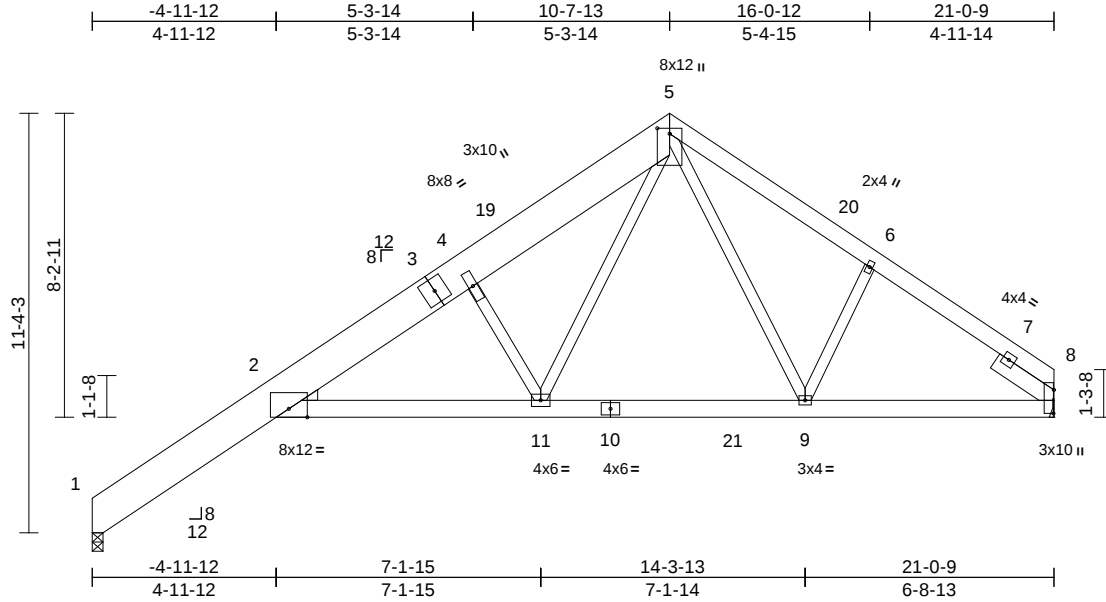
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	
250918-A	A06	Roof Special	3	1	Job Reference (optional)	I76809474

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:23
ID:NFPYNrkBGTpjhv3vV5?3xyXMAe-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:62.4

Plate Offsets (X, Y): [5:0-1-12,0-4-0], [8:0-7-10,0-0-3]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.22	11-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.43	11-18	>717	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.28	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.18	11-18	>999	240	Weight: 211 lb	FT = 25%

LUMBER

TOP CHORD 2x12 SP No.1 *Except* 5-8:2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE Left: 2x4 SP No.3
SLIDER Right 2x6 SP No.2 -- 1-11-0

BRACING

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

REACTIONS

(size) 1=0-3-8, 8= Mechanical
Max Horiz 1=250 (LC 9)
Max Uplift 1=-36 (LC 12), 8=-40 (LC 12)
Max Grav 1=1172 (LC 19), 8=1188 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-709/75, 2-4=-2200/398, 4-5=-2184/471,
5-6=-1417/363, 6-8=-1533/301
BOT CHORD 2-11=-370/2328, 9-11=-77/1068,
8-9=-169/1192
WEBS 5-11=-278/1620, 6-9=-177/180,
4-11=-1219/367, 5-9=-78/421

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; 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 15-7-8, Exterior(2R) 15-7-8 to 20-0-5, Interior (1) 20-0-5 to 26-0-5 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 8 and 36 lb uplift at joint 1.
- 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.

LOAD CASE(S) Standard



October 3, 2025

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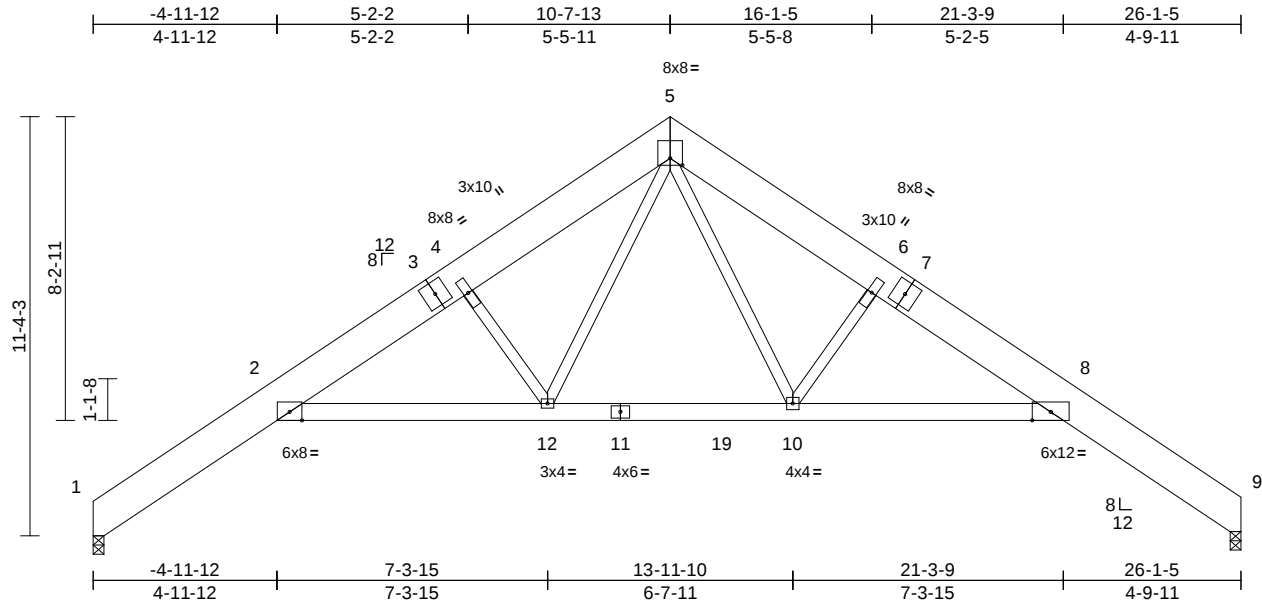
Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-A	A07-GR	Roof Special Girder	1	3	Job Reference (optional)

I76809475

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:23
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Page: 1



Scale = 1:62.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.25	10-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.46	10-18	>798	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.49	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.15	10-18	>999	240	Weight: 799 lb	FT = 25%

LUMBER

TOP CHORD 2x12 SP No.1 *Except* 7-9:2x12 SP 2400F 2.OE
 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, 9=0-3-8
 Max Horiz 1=247 (LC 5)
 Max Uplift 1=-68 (LC 8), 9=-173 (LC 9)
 Max Grav 1=1792 (LC 15), 9=3678 (LC 16)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-1085/179, 2-4=-4049/223, 4-5=-3925/260, 5-6=-4679/250, 6-8=-4797/212, 8-9=-2021/164
 BOT CHORD 2-12=-183/4158, 10-12=0/2425, 8-10=-112/5421
 WEBS 5-12=-141/1931, 4-12=-1693/247, 5-10=-170/3382, 6-10=-3177/275

NOTES

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x12 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Web 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=130mph (3-second gust) Vasd=103mph; 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 68 lb uplift at joint 1 and 173 lb uplift at joint 9.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2721 lb down and 143 lb up at 26-3-5 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 (lb/ft)
 Vert: 1-14=-84, 5-14=-60, 5-8=-60, 8-9=-84, 13-16=-20
 Concentrated Loads (lb)
 Vert: 16=-2466 (F)



October 3, 2025

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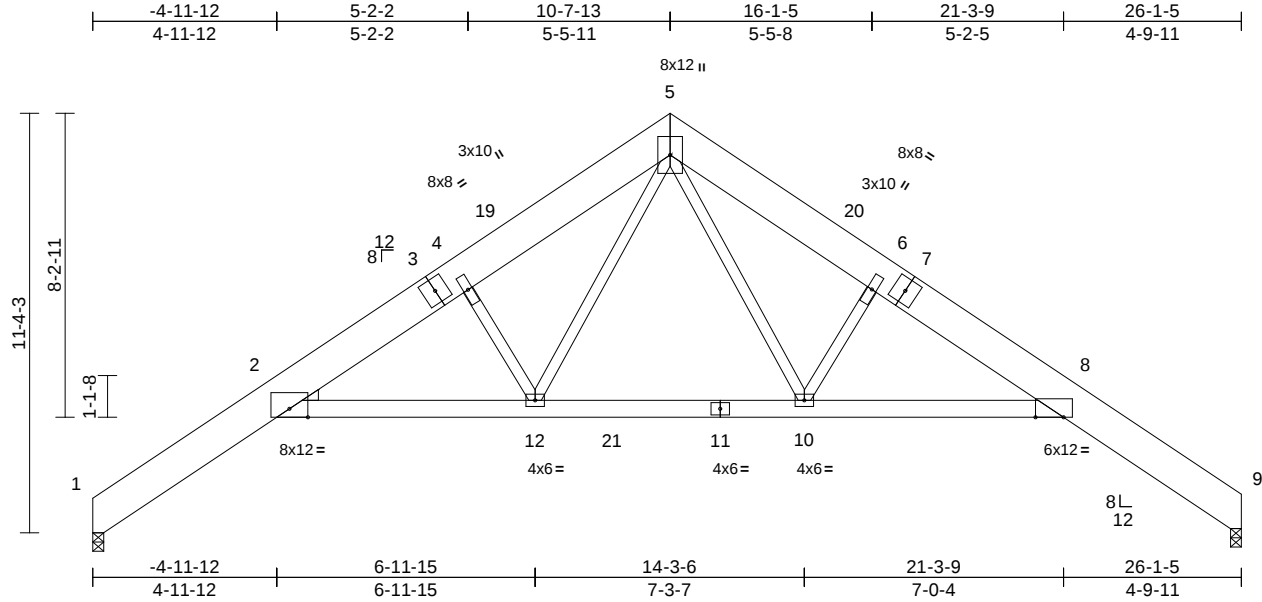
818 Soundside Road
 Edenton, NC 27932

Job 250918-A	Truss A08	Truss Type Roof Special	Qty 3	Ply 1	Lot 25 Duncan's Creek Job Reference (optional)	I76809476
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Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:23
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Page: 1



Scale = 1:62.4

Plate Offsets (X, Y): [8:0-9-2, Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.29	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.56	12-15	>659	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.64	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.19	12-15	>999	240	Weight: 267 lb	FT = 25%

LUMBER

TOP CHORD 2x12 SP No.1 *Except* 1-3,7-9:2x12 SP

2400F 2.0E

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.

REACTIONS

(size) 1=0-3-8, 9=0-3-8

Max Horiz 1=247 (LC 9)

Max Uplift 1=-46 (LC 12), 9=-52 (LC 13)

Max Grav 1=1383 (LC 19), 9=1371 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-857/195, 2-4=-2818/426,

4-5=-2792/485, 5-6=-2655/488,

6-8=-2704/430, 8-9=-742/181

BOT CHORD 2-12=-247/2954, 10-12=-3/1584,

8-10=-225/2678

WEBS 5-12=-211/1662, 4-12=-1288/306,

6-10=-1156/297, 5-10=-201/1517

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; 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 15-7-8, Exterior(2R) 15-7-8 to 20-0-5, Interior (1) 20-0-5 to 30-11-4 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 46 lb uplift at joint 1 and 52 lb uplift at joint 9.
- 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.

LOAD CASE(S) Standard



October 3, 2025

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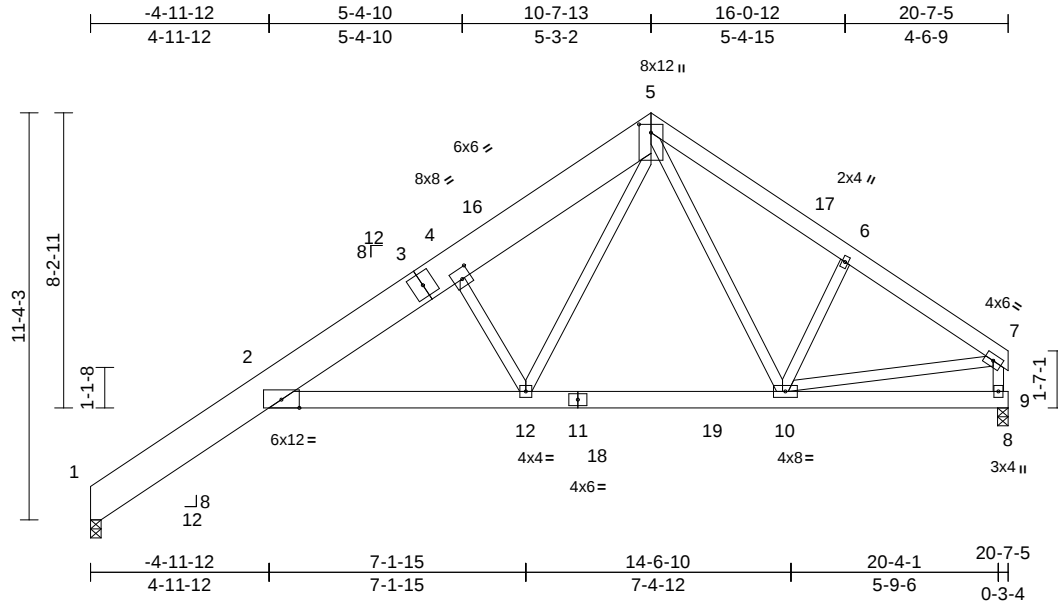
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	176809477
250918-A	A09	Roof Special	6	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:23
ID:rR6oa?uyyabGKrUGTCcEc9yXMAAd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCdoi7J4zJC?f

Page: 1



Scale = 1:64.2

Plate Offsets (X, Y): [4:0-3-0,0-3-8], [5:0-2-12,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.21	12-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.41	12-15	>735	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.27	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.18	12-15	>999	240	Weight: 213 lb	FT = 25%

LUMBER

TOP CHORD 2x12 SP No.1 *Except* 5-7:2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING

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

REACTIONS (size) 1=0-3-8, 9=0-3-8
Max Horiz 1=250 (LC 9)
Max Uplift 1=-33 (LC 12), 9=-42 (LC 12)
Max Grav 1=1138 (LC 19), 9=1172 (LC 19)

FORCES

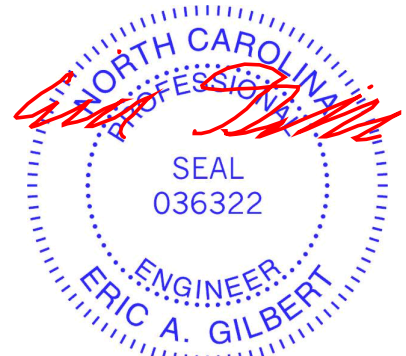
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-685/68, 2-4=-2099/387, 4-5=-2082/461, 5-6=-1333/346, 6-7=-1424/278, 7-9=-1069/221
BOT CHORD 2-12=-380/2230, 10-12=-84/993, 9-10=-18/134, 8-9=0/0
WEBS 4-12=-1201/371, 5-12=-280/1584, 5-10=-65/351, 6-10=-264/199, 7-10=-160/1034

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; 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 15-7-8, Exterior(2R) 15-7-8 to 20-0-5, Interior (1) 20-0-5 to 25-3-12 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 1 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 42 lb uplift at joint 9 and 33 lb uplift at joint 1.
- 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.

LOAD CASE(S) Standard



October 3, 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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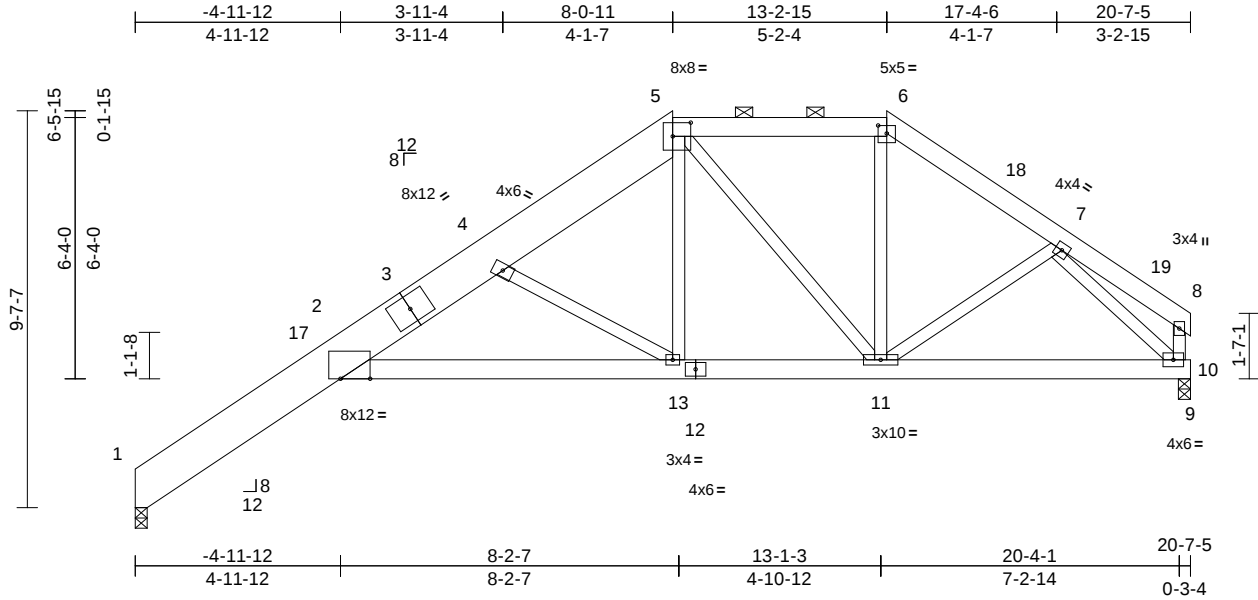
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	176809478
250918-A	A10	Hip	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:23
ID:rR6oa?uyyabGKrUGTCcEc9yXMAd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:55.9									
Plate Offsets (X, Y): [2:0-8-10,Edge], [5:0-5-4,0-4-0], [6:0-2-8,0-2-5]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.17 13-16	>999	360
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.35 13-16	>861	240
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.24 10	n/a	n/a
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.15 13-16	>999	240
							Weight: 207 lb FT = 25%		

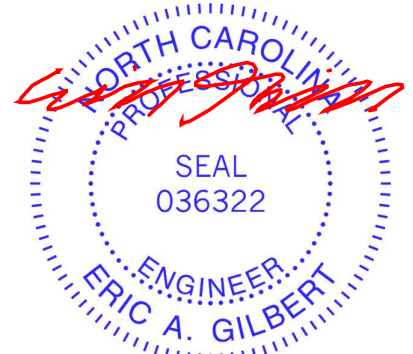
LUMBER	
TOP CHORD	2x12 SP No.1 *Except* 5-6,6-8:2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied.
REACTIONS	
(size)	1=0-3-8, 10=0-3-8
Max Horiz	1=207 (LC 9)
Max Uplift	1=-28 (LC 12), 10=-17 (LC 13)
Max Grav	1=1037 (LC 1), 10=1017 (LC 1)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-553/62, 2-4=-2072/502, 4-5=-1448/369, 5-6=-909/289, 8-10=-184/46, 6-7=-1117/304, 7-8=-204/39
BOT CHORD	2-13=-528/2148, 11-13=-204/1126, 10-11=-170/795, 9-10=0/0
WEBS	5-13=-129/779, 5-11=-392/114, 6-11=-34/330, 7-11=-47/203, 7-10=-1008/264, 4-13=-1233/378

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; 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 13-0-6, Exterior(2E) 13-0-6 to 18-2-10, Exterior(2R) 18-2-10 to 24-5-5, Interior (1) 24-5-5 to 25-3-12 zone; C-C for members and forces & MWFRS for reactions shown; 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1 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 17 lb uplift at joint 10 and 28 lb uplift at joint 1.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



October 3, 2025

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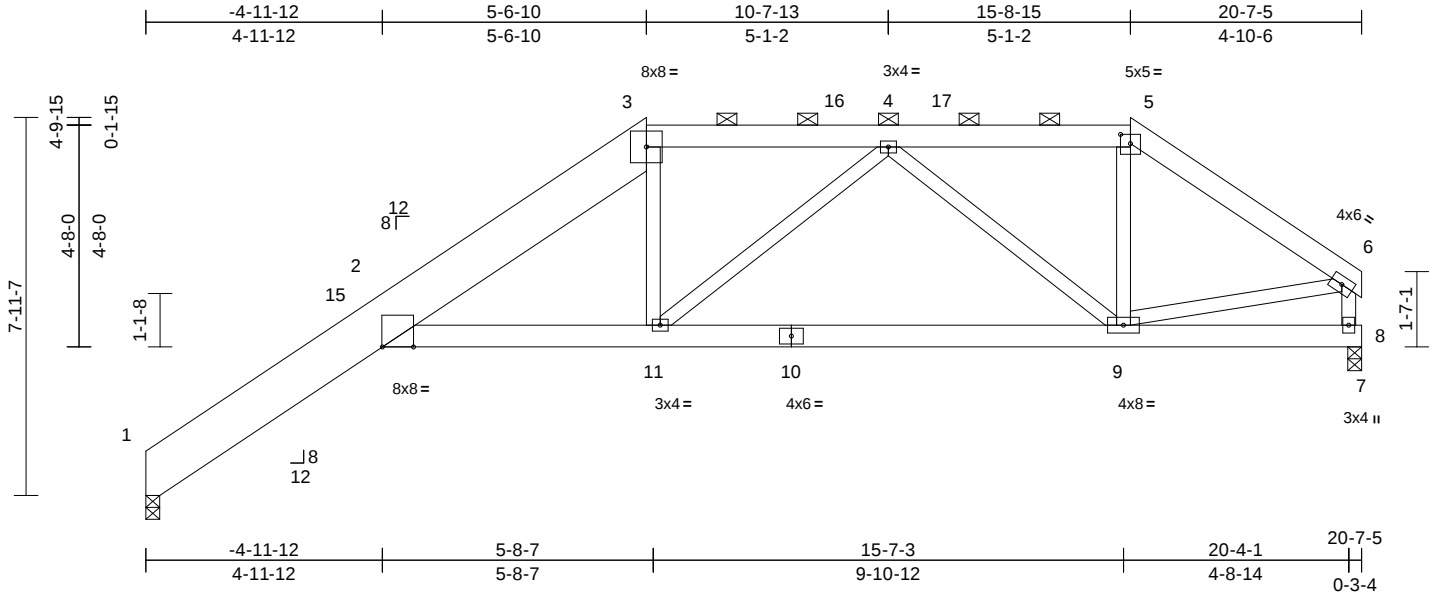
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	
250918-A	A11	Hip	1	1	Job Reference (optional)	176809479

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:23
ID:rR6oa?uyyabGKrUGTCcEc9yXMAAd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:48.5																
Plate Offsets (X, Y): [2:0-7-14,Edge], [5:0-2-8,0-2-5]																
Loading		(psf)	Spacing		2-0-0	CSI		DEFL		in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		20.0	Plate Grip DOL		1.15	TC		0.90	Vert(LL)		-0.19	11-14	>999	360	MT20	244/190
TCDL		10.0	Lumber DOL		1.15	BC		0.56	Vert(CT)		-0.39	11-14	>777	240		
BCLL		0.0*	Rep Stress Incr		YES	WB		0.47	Horz(CT)		0.26	8	n/a	n/a		
BCDL		10.0	Code		IRC2021/TPI2014	Matrix-AS			Wind(LL)		0.16	11-14	>999	240	Weight: 187 lb	FT = 25%

LUMBER
TOP CHORD 2x6 SP No.1 *Except* 1-3:2x12 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 1=0-3-8, 8=0-3-8
Max Horiz 1=171 (LC 12)
Max Uplift 1=-19 (LC 12)
Max Grav 1=1037 (LC 1), 8=1017 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-553/35, 2-3=-1665/324, 3-4=-1591/401, 4-5=-969/258, 5-6=-1202/256, 6-8=-968/212
BOT CHORD 2-11=-297/1585, 9-11=-297/1434, 8-9=-38/94, 7-8=0/0
WEBS 5-9=0/375, 6-9=-116/882, 4-11=-28/297, 4-9=-654/196, 3-11=0/277

- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1 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 19 lb uplift at joint 1.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; 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 10-6-6, Exterior(2R) 10-6-6 to 16-9-1, Interior (1) 16-9-1 to 20-8-10, Exterior(2E) 20-8-10 to 25-3-12 zone; C-C for members and forces & MWFRS for reactions shown; 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.



October 3, 2025

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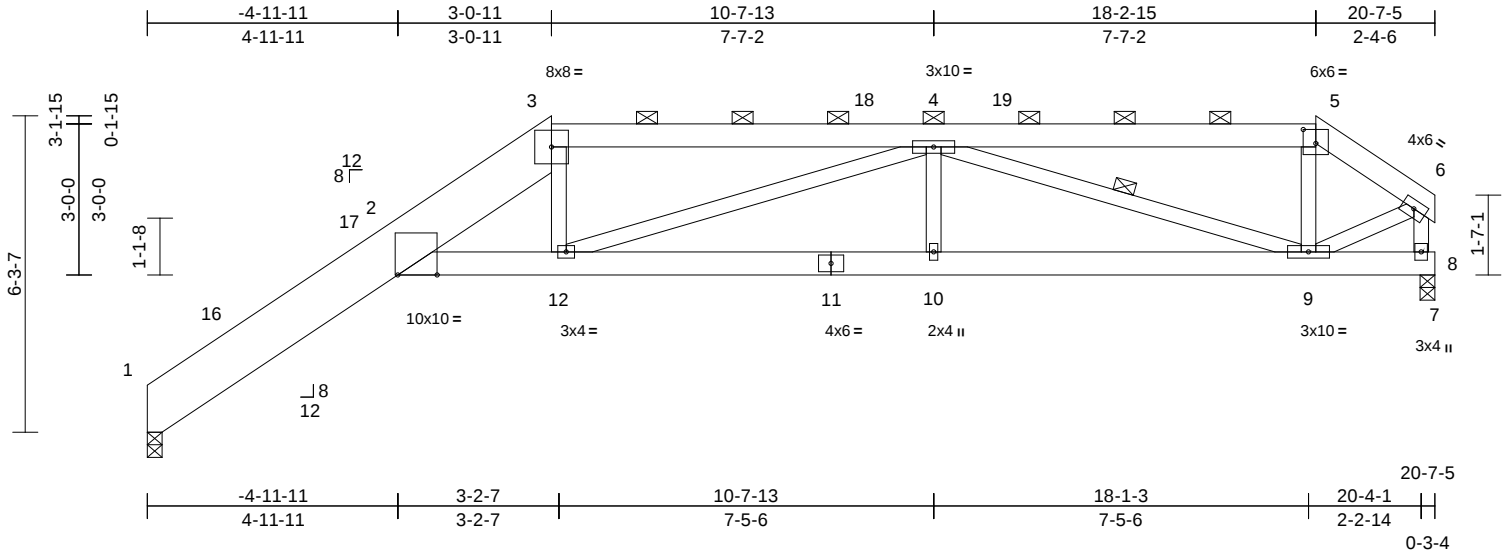
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	176809480
250918-A	A12	Hip	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:23
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Page: 1



Scale = 1:45.8

Plate Offsets (X, Y): [2:0-9-6,Edge], [5:0-3-0,0-3-5]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.17	12-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.35	12-15	>855	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.26	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.14	12-15	>999	240	Weight: 175 lb	FT = 25%

LUMBER

TOP CHORD 2x6 SP No.1 *Except* 1-3:2x12 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-11-8 max.): 3-5.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 4-9

REACTIONS

(size) 1=0-3-8, 8=0-3-8
Max Horiz 1=151 (LC 12)
Max Uplift 1=-8 (LC 9), 8=-36 (LC 9)
Max Grav 1=1037 (LC 1), 8=1017 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-553/28, 2-3=-2288/406, 3-4=-2335/477, 4-5=-918/209, 5-6=-1046/205, 6-8=-1037/187, 2-12=-433/2315, 10-12=-421/2466, 9-10=-421/2466, 8-9=-7/20, 7-8=0/0
WEBS 5-9=0/285, 6-9=-183/1017, 4-10=0/283, 4-12=-301/190, 3-12=0/415, 4-9=-1648/292

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; 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 8-0-6, Exterior(2R) 8-0-6 to 14-3-1, Interior (1) 14-3-1 to 23-2-10, Exterior(2E) 23-2-10 to 25-3-12 zone; C-C for members and forces & MWFRS for reactions shown; 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1 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 8 lb uplift at joint 1 and 36 lb uplift at joint 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



October 3, 2025

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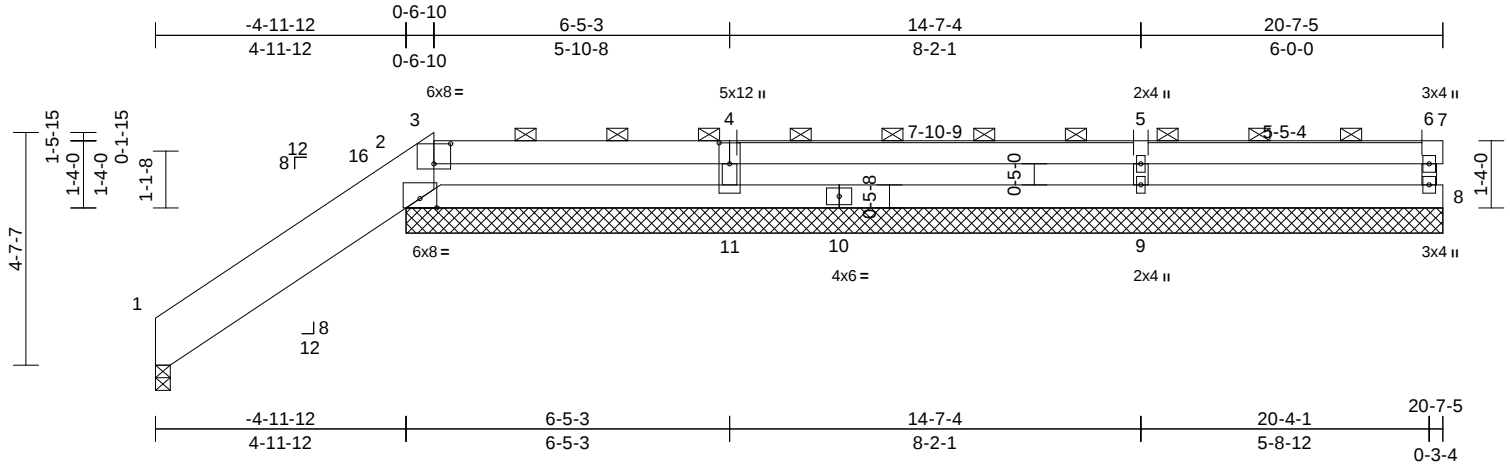
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	
250918-A	A13GE	Half Hip Supported Gable	1	1	Job Reference (optional)	I76809481

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:23
ID:v2_19JtiQyLY5XKtMnamXkyXMAf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRcDoi7J4zJC?f

Page: 1



Scale = 1:45.8

Plate Offsets (X, Y): [3:0-4-0,0-4-13], [4:0-5-0,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.08	11-14	>950	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.17	11-14	>451	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.11	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.09	11-14	>859	240	Weight: 131 lb	FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1 *Except* 1-3:2x12 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS

(size)	1=0-3-8, 2=20-7-4, 7=20-7-4, 8=20-7-4, 9=20-7-4, 11=20-7-4
Max Horiz	1=120 (LC 12)
Max Uplift	7=-72 (LC 26), 8=-111 (LC 8), 9=-82 (LC 8), 11=-89 (LC 9)
Max Grav	1=426 (LC 1), 2=3 (LC 1), 7=91 (LC 8), 8=301 (LC 26), 9=513 (LC 26), 11=930 (LC 1)

FORCES

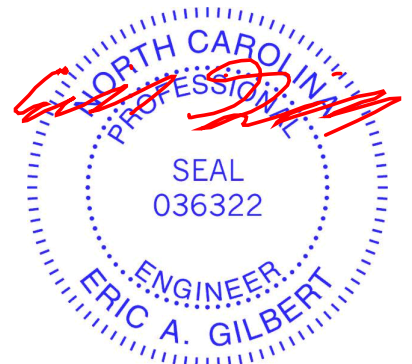
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-214/13, 2-3=-68/167, 3-5=-223/81, 5-6=-223/81, 6-7=0/0, 6-8=-239/166
BOT CHORD	2-11=-186/404, 9-11=-81/223, 8-9=-81/223
WEBS	4-11=-602/341, 5-9=-410/254

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-1-12 to 4-6-9, Exterior(2N) 4-6-9 to 5-6-6, Corner(3R) 5-6-6 to 9-11-3, Exterior(2N) 9-11-3 to 25-7-0 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.

- Provide adequate drainage to prevent water ponding.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1 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 111 lb uplift at joint 8, 72 lb uplift at joint 7, 89 lb uplift at joint 11 and 82 lb uplift at joint 9.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



October 3, 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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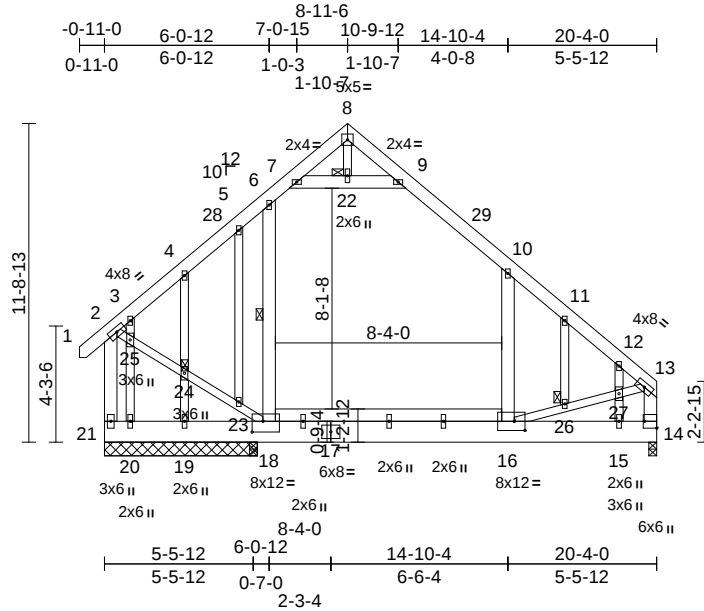
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-A	B01GE	Attic Structural Gable	1	1	176809482
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:23
ID:cvOmZTcV8zB89ii70dWyuFyXLPx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:84.8

Plate Offsets (X, Y): [14:Edge,0-5-8], [16:0-4-12,0-4-0], [18:0-4-12,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.07	16-18	>999	360	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.13	16-18	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.00	14	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.05	16-18	>999	240	Weight: 268 lb FT = 25%

LUMBER		WEBS	6-18=-124/326, 10-16=-123/197, 7-22=-812/302, 9-22=-812/302, 8-22=-1/75, 2-25=-90/858, 24-25=-93/881, 23-24=-93/895, 18-23=-102/958, 16-26=0/416, 26-27=0/421, 13-27=0/403, 5-23=-15/109, 4-24=-206/146, 19-24=-231/159, 3-25=-120/54, 20-25=-153/51, 11-26=-60/55, 12-27=-190/110, 15-27=-281/139
TOP CHORD	2x6 SP No.1		
BOT CHORD	2x10 SP No.1 *Except* 18-16:2x6 SP No.1		
WEBS	2x6 SP No.1 *Except* 7-9:2x6 SP No.2, 8-22,18-2,16-13:2x4 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.		
WEBS	1 Row at midpt 6-18		
JOINTS	1 Brace at Jt(s): 22, 24, 26		
REACTIONS (size)		14=0-3-8, 18=5-7-8, 19=5-7-8, 20=5-7-8, 21=5-7-8	
	Max Horiz	21=-317 (LC 10)	
	Max Uplift	18=-176 (LC 9), 19=-638 (LC 18), 20=-23 (LC 13), 21=-132 (LC 8)	
	Max Grav	14=1100 (LC 21), 18=629 (LC 20), 19=15 (LC 8), 20=583 (LC 21), 21=914 (LC 21)	
FORCES (lb) - Maximum Compression/Maximum Tension			
TOP CHORD	1-2=0/39, 2-3=-946/86, 3-4=-994/113, 4-5=-1031/220, 5-6=-897/238, 6-7=-653/194, 7-8=-94/94, 8-9=-106/54, 9-10=-811/197, 10-11=-893/78, 11-12=-926/26, 12-13=-841/0, 2-21=-1036/123, 13-14=-654/0		
BOT CHORD	20-21=-267/268, 19-20=-267/268, 18-19=-267/268, 16-18=0/609, 15-16=-92/256, 14-15=-92/256		

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-9 to 3-7-4, Interior (1) 3-7-4 to 8-11-6, Exterior(2R) 8-11-6 to 13-4-2, Interior (1) 13-4-2 to 20-1-4 zone; end vertical 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 (II) MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 6-7, 9-10, 7-22, 9-22
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-18

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 21, 176 lb uplift at joint 18, 638 lb uplift at joint 19 and 23 lb uplift at joint 20.
 - 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.
 - Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard



October 3, 2025

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-A	B02	Attic	3	1	Job Reference (optional)

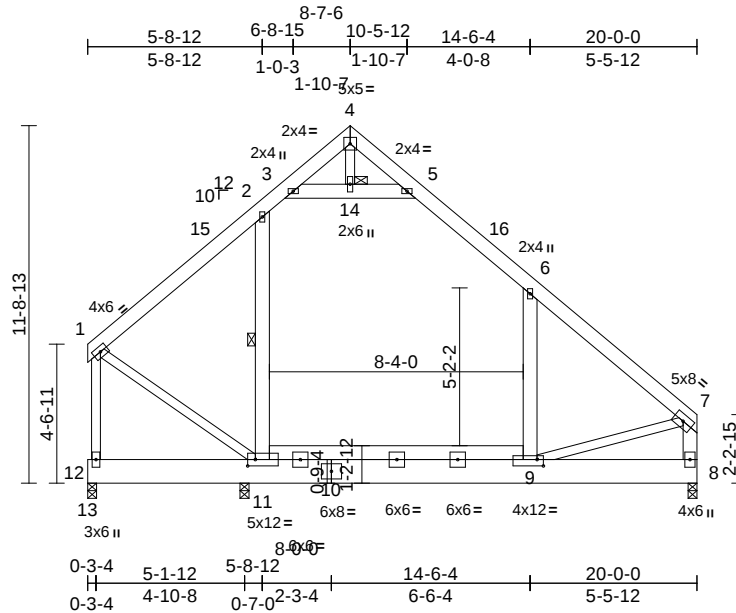
I76809483

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:24

Page: 1

ID:oztXc6y9RPxk4qG6CpN4VpyXQPh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:75.6

Plate Offsets (X, Y): [9:0-2-8,0-2-8], [11:0-3-0,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.06	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.11	9-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.04	9	>999	240	Weight: 230 lb	FT = 25%

LUMBER

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x10 SP No.1 *Except* 11-9:2x6 SP No.1
 WEBS 2x6 SP No.1 *Except* 4-14,12-1,9-7,11-1:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 2-11
 JOINTS 1 Brace at Jt(s): 14
 This truss requires both edges of the bottom chord be sheathed in the room area.

REACTIONS

(size) 8=0-3-8, 11=0-3-8, 12=0-3-8
 Max Horiz 12=-256 (LC 8)
 Max Uplift 11=-254 (LC 9), 12=-51 (LC 13)
 Max Grav 8=1070 (LC 21), 11=539 (LC 20), 12=1037 (LC 21)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-940/141, 2-3=-604/180, 3-4=-100/76, 4-5=-87/55, 5-6=-741/163, 6-7=-848/1, 1-12=-1162/142, 7-8=-780/0
 BOT CHORD 12-13=0/0, 11-12=-247/258, 9-11=0/542, 8-9=-104/244
 WEBS 2-11=-171/267, 6-9=-199/159, 4-14=-1/73, 7-9=0/361, 3-14=-726/292, 5-14=-726/292, 1-11=-84/832

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-7-4 to 5-0-1, Interior (1) 5-0-1 to 8-11-6, Exterior(2R) 8-11-6 to 13-4-2, Interior (1) 13-4-2 to 20-1-4 zone; end vertical 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 2-3, 5-6, 3-14, 5-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 9-11
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 254 lb uplift at joint 11 and 51 lb uplift at joint 12.
- 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.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



October 3, 2025

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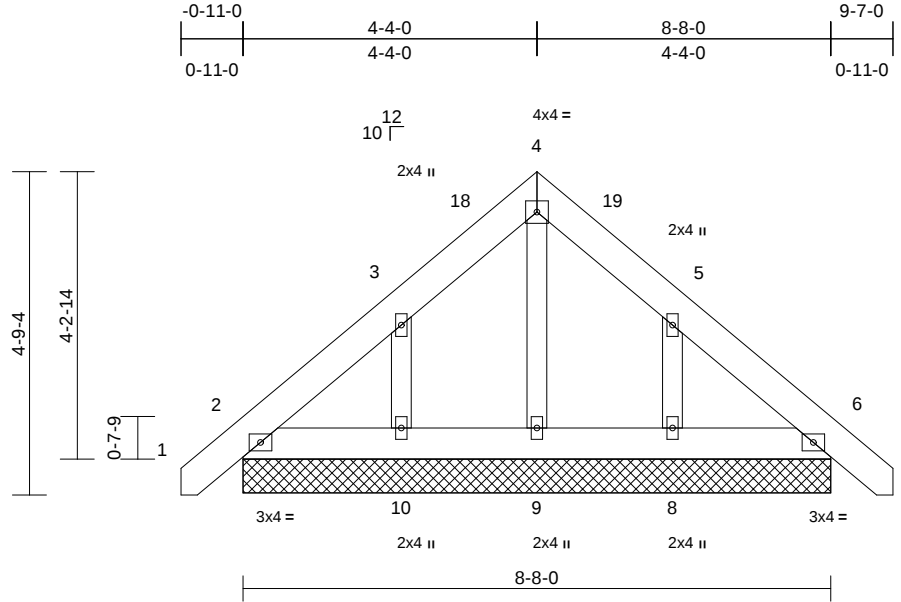
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-A	C01GE	Common Supported Gable	1	1	Job Reference (optional)
					I76809484

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:24
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Page: 1



Scale = 1:34

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS						Weight: 63 lb	FT = 25%

LUMBER

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

BRACING

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

REACTIONS	(size)	2=8-8-0, 6=8-8-0, 8=8-8-0, 9=8-8-0, 10=8-8-0
	Max Horiz	2=-102 (LC 10)
	Max Uplift	2=-7 (LC 8), 8=-82 (LC 13), 10=-83 (LC 12)
	Max Grav	2=154 (LC 1), 6=154 (LC 1), 8=222 (LC 20), 9=92 (LC 22), 10=224 (LC 19)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/31, 2-3=-92/60, 3-4=-96/159, 4-5=-95/155, 5-6=-80/35, 6-7=0/31
BOT CHORD	2-10=-58/202, 9-10=-58/202, 8-9=-58/202, 6-8=-58/202
WEBS	4-9=-93/15, 3-10=-187/286, 5-8=-188/285

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-9-9 to 3-7-4, Exterior(2N) 3-7-4 to 4-4-0, Corner(3R) 4-4-0 to 8-8-0, Exterior(2N) 8-8-0 to 9-5-9 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) Gable requires continuous bottom chord bearing.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 2, 83 lb uplift at joint 10, 82 lb uplift at joint 8 and 7 lb uplift at joint 2.
- 9) 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.

LOAD CASE(S) Standard



October 3, 2025

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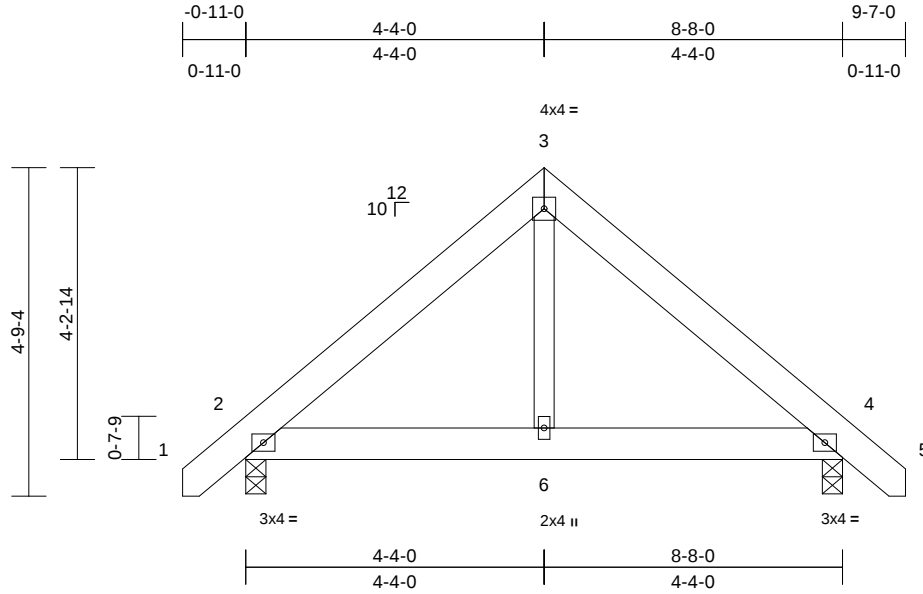
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	I76809485
250918-A	C02	Common	2	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:24
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Page: 1



Scale = 1:33.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	6-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	6-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	6-9	>999	240	Weight: 58 lb	FT = 25%

LUMBER

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

- 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.

BRACING

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

REACTIONS (size) 2=0-3-8, 4=0-3-8

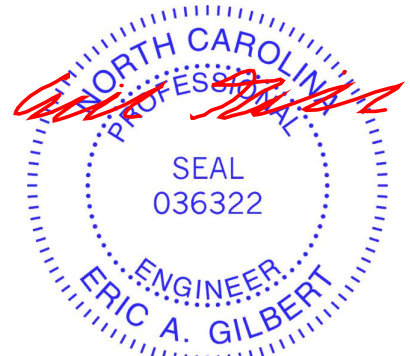
Max Horiz 2=102 (LC 11)
Max Uplift 2=-26 (LC 12), 4=-26 (LC 13)
Max Grav 2=394 (LC 1), 4=394 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/31, 2-3=-360/189, 3-4=-360/189, 4-5=0/31
BOT CHORD 2-6=-15/233, 4-6=-10/233
WEBS 3-6=-47/202

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-9 to 3-7-4, Interior (1) 3-7-4 to 4-4-0, Exterior(2R) 4-4-0 to 8-8-0, Interior (1) 8-8-0 to 9-5-9 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 2 and 26 lb uplift at joint 4.



October 3, 2025

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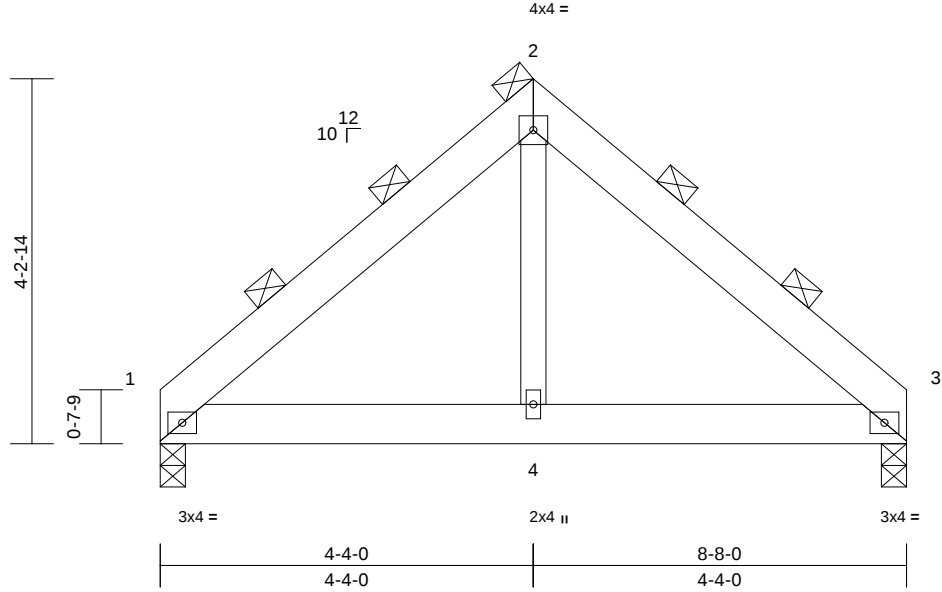
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	
250918-A	C03	Common	1	2	Job Reference (optional)	I76809486

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:24
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Page: 1



Loading	(psf)	Spacing	3-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	4-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	4-10	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP		Wind(LL)	0.00	4-7	>999	240	Weight: 106 lb	FT = 25%

LUMBER

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

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 1=0-3-8, 3=0-3-8
Max Horiz 1=-130 (LC 8)
Max Uplift 1=-22 (LC 12), 3=-22 (LC 13)
Max Grav 1=520 (LC 1), 3=520 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

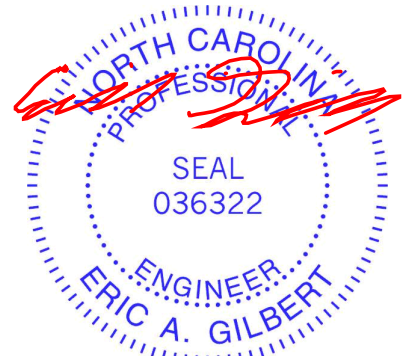
TOP CHORD 1-2=-551/274, 2-3=-551/295
BOT CHORD 1-4=-110/345, 3-4=-91/345
WEBS 2-4=-85/310

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: 2x6 - 2 rows staggered at 0-9-0 oc.
Web 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=130mph (3-second gust)
Vasd=103mph; 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

- 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1 and 22 lb uplift at joint 3.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



October 3, 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

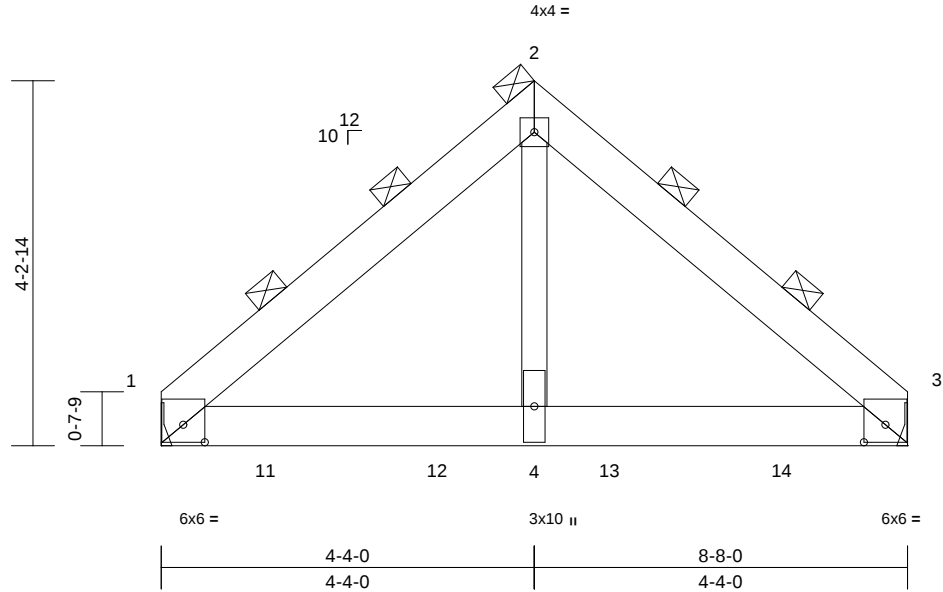
Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-A	C04-GR	Common Girder	1	2	Job Reference (optional)

I76809487

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:24
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Page: 1



Scale = 1:26.8

Plate Offsets (X, Y): [1:0-3-0,0-2-7], [3:0-3-0,0-2-7]

Loading	(psf)	Spacing	3-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.02	4-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.04	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MP		Wind(LL)	0.01	4-7	>999	240	Weight: 106 lb	FT = 25%

LUMBER

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

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 1= Mechanical, 3= Mechanical
Max Horiz 1=-130 (LC 4)
Max Uplift 1=-132 (LC 8), 3=-133 (LC 9)
Max Grav 1=2818 (LC 15), 3=2718 (LC 16)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-2=-2696/181, 2-3=-2695/180
BOT CHORD 1-4=-90/2078, 3-4=-66/2078
WEBS 2-4=-110/2918

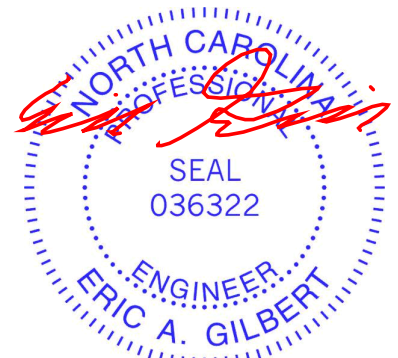
NOTES

- 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: 2x6 - 2 rows staggered at 0-7-0 oc.
Web 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=130mph (3-second gust)
Vasd=103mph; 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 1 and 133 lb uplift at joint 3.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1111 lb down and 47 lb up at 1-2-8, 1158 lb down and 58 lb up at 3-2-8, and 1158 lb down and 58 lb up at 5-2-8, and 1158 lb down and 58 lb up at 7-2-8 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 (lb/ft)
Vert: 1-2=-90, 2-3=-90, 5-8=-30
Concentrated Loads (lb)
Vert: 11=-1010 (B), 12=-1010 (B), 13=-1010 (B), 14=-1010 (B)



October 3, 2025

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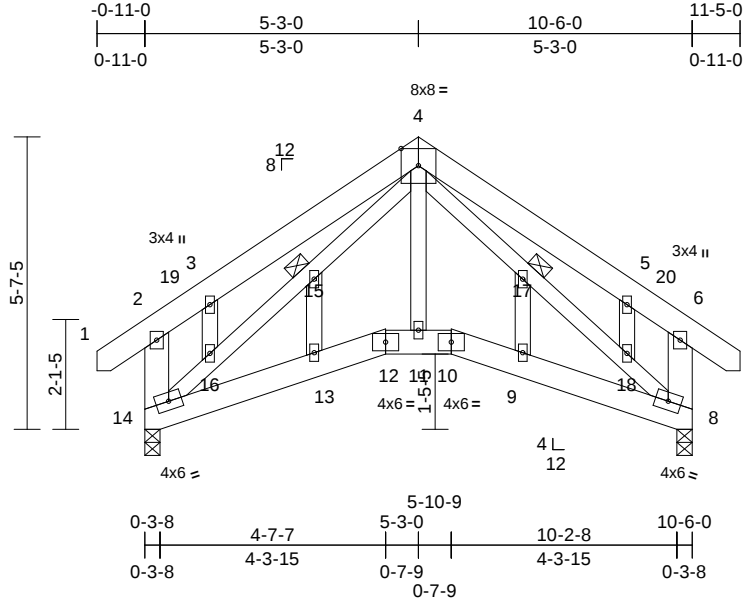
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	176809488
250918-A	D01GE	Roof Special	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:24
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.01	10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.00	12-13	>999	240	Weight: 101 lb	FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 14-2,8-6:2x6 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.
JOINTS	1 Brace at Jt(s): 15, 17

REACTIONS

(size)	8=0-3-8, 14=0-3-8
Max Horiz	14=96 (LC 11)
Max Uplift	8=-28 (LC 13), 14=-28 (LC 12)
Max Grav	8=463 (LC 1), 14=463 (LC 1)

FORCES

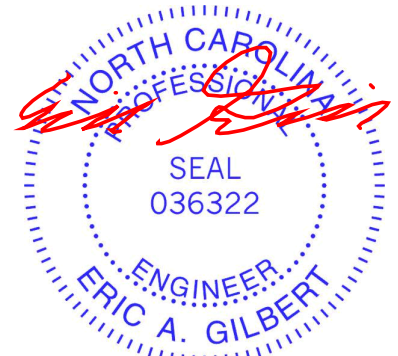
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/34, 2-3=-221/146, 3-4=-216/197, 4-5=-211/194, 5-6=-213/143, 6-7=0/34, 2-14=-291/226, 6-8=-282/223
BOT CHORD	13-14=-23/342, 12-13=-18/359, 11-12=-15/329, 10-11=-15/329, 9-10=-19/358, 8-9=-22/341
WEBS	14-16=-294/2, 15-16=-290/0, 4-15=-311/0, 4-17=-344/20, 17-18=-322/19, 8-18=-324/14, 4-11=0/345, 13-15=-34/25, 3-16=-29/48, 9-17=-34/26, 5-18=-28/47

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-9-7 to 3-7-6, Interior (1) 3-7-6 to 5-3-0, Exterior(2R) 5-3-0 to 9-7-13, Interior (1) 9-7-13 to 11-3-7 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.
- All plates are 2x4 (II) MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 8, 14 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 28 lb uplift at joint 8 and 28 lb uplift at joint 14.
- 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.

LOAD CASE(S) Standard



October 3, 2025

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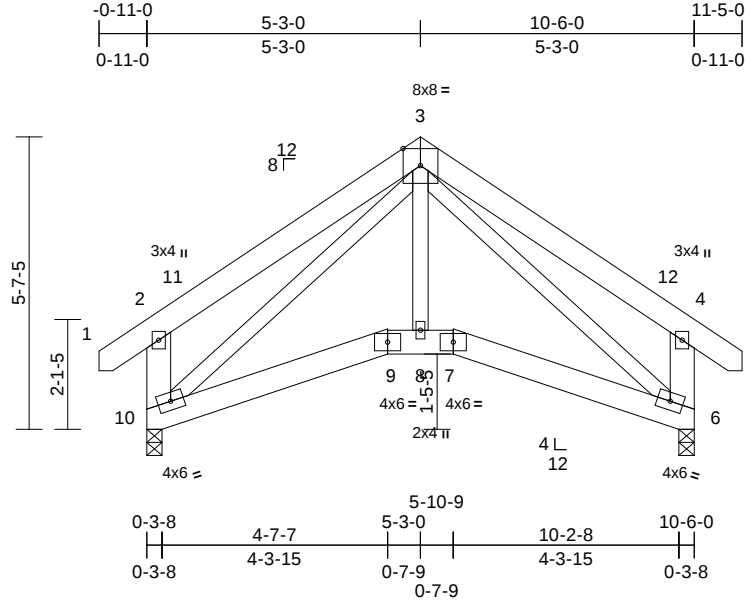
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	176809489
250918-A	D02	Roof Special	5	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:24
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Scale = 1:44.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.01	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.00	9	>999	240	Weight: 93 lb	FT = 25%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except* 10-2,6-4:2x6 SP No.1

BRACING

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

REACTIONS (size) 6=0-3-8, 10=0-3-8
Max Horiz 10=158 (LC 11)
Max Uplift 6=-32 (LC 13), 10=-32 (LC 12)
Max Grav 6=463 (LC 1), 10=463 (LC 1)

FORCES

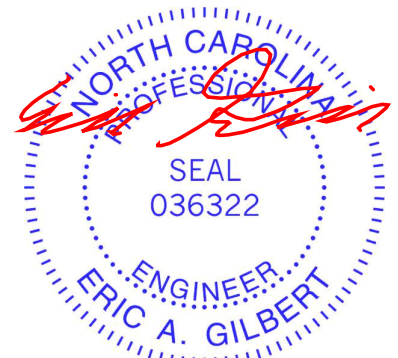
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/34, 2-3=-248/247, 3-4=-236/234, 4-5=0/34, 2-10=-319/265, 4-6=-310/259
BOT CHORD 9-10=-78/367, 8-9=-66/343, 7-8=-66/343, 6-7=-77/366
WEBS 3-10=-304/0, 3-6=-361/47, 3-8=0/348

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-7 to 3-7-6, Interior (1) 3-7-6 to 5-3-0, Exterior(2R) 5-3-0 to 9-7-13, Interior (1) 9-7-13 to 11-3-7 zone; end vertical 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 6, 10 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 32 lb uplift at joint 6 and 32 lb uplift at joint 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.

LOAD CASE(S) Standard



October 3, 2025

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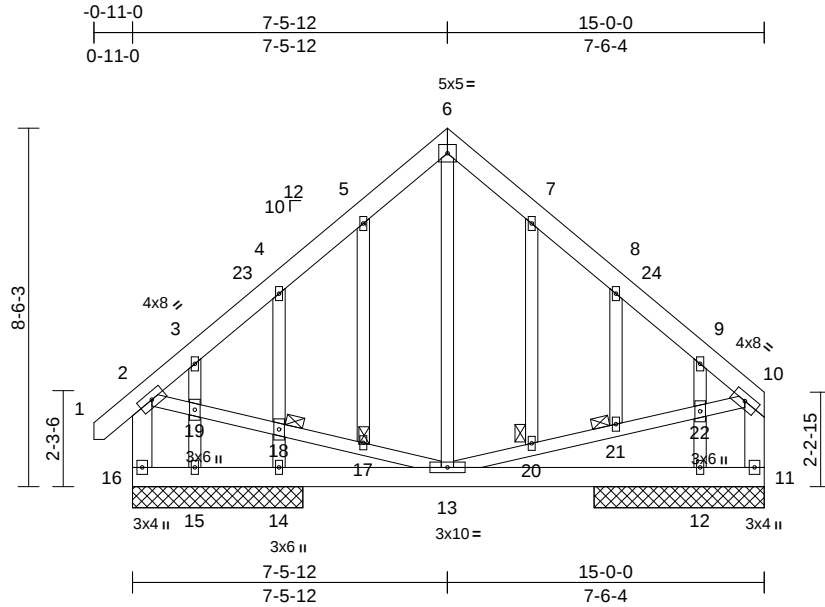
Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-A	G01GE	Common Structural Gable	1	1	Job Reference (optional)

I76809490

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:24
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Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.01	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.00	13	>999	240	Weight: 158 lb	FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 16-2,11-10:2x6 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.
JOINTS	1 Brace at Jt(s): 17, 18, 20, 21

REACTIONS

(size)	11=4-0-8, 12=4-0-8, 14=4-0-8, 15=4-0-8, 16=4-0-8
Max Horiz	16=226 (LC 9)
Max Uplift	11=90 (LC 11), 12=175 (LC 13), 14=95 (LC 12), 15=59 (LC 9), 16=35 (LC 8)
Max Grav	11=157 (LC 8), 12=546 (LC 20), 14=314 (LC 19), 15=94 (LC 19), 16=357 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/39, 2-3=-311/43, 3-4=-296/44, 4-5=-302/146, 5-6=-244/171, 6-7=-225/145, 7-8=-277/123, 8-9=-339/87, 9-10=-237/25, 2-16=-320/45, 10-11=-193/46
BOT CHORD	15-16=-197/176, 14-15=-197/176, 13-14=-197/176, 12-13=-40/42, 11-12=-40/42
WEBS	6-13=-11/117, 2-19=-16/227, 18-19=-18/224, 17-18=-15/226, 13-17=-19/230, 13-20=-13/208, 20-21=-12/204, 21-22=-10/210, 10-22=-14/202, 5-17=-18/27, 4-18=-216/185, 14-18=-239/198, 3-19=-102/80, 15-19=-92/80, 7-20=-8/20, 8-21=-39/39, 9-22=-345/298, 12-22=-415/368

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-9 to 3-5-12, Interior (1) 3-5-12 to 7-5-12, Exterior(2R) 7-5-12 to 11-10-9, Interior (1) 11-10-9 to 14-9-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 (II) MT20 unless otherwise indicated.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 16, 90 lb uplift at joint 11, 95 lb uplift at joint 14, 59 lb uplift at joint 15 and 175 lb uplift at joint 12.
- 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.

LOAD CASE(S) Standard



October 3, 2025

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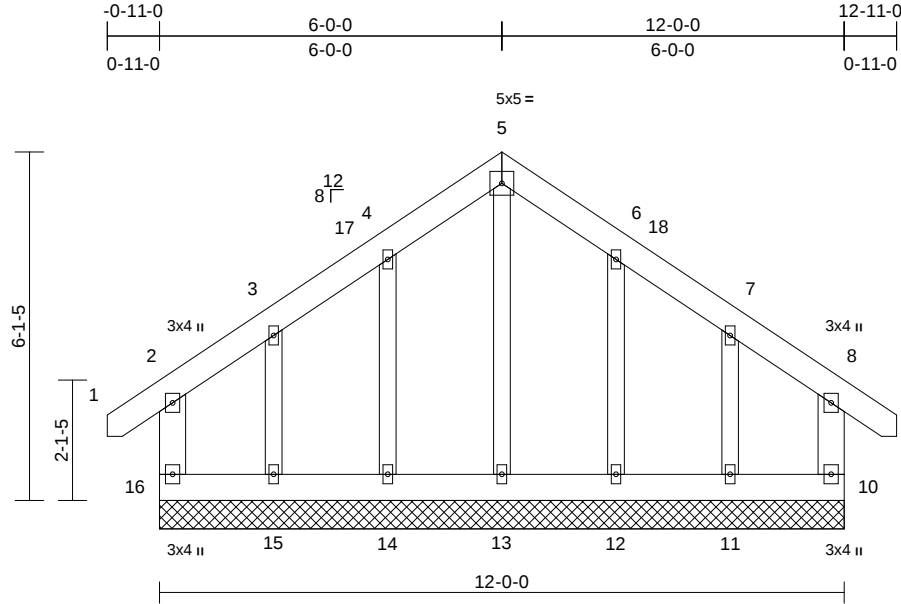
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	
250918-A	H01GE	Common	1	1	Job Reference (optional)	I76809491

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	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	0.09	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 101 lb	FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	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)	10=12-0-0, 11=12-0-0, 12=12-0-0, 13=12-0-0, 14=12-0-0, 15=12-0-0, 16=12-0-0
Max Horiz		16=-170 (LC 10)
Max Uplift		10=-82 (LC 9), 11=-110 (LC 8), 12=-27 (LC 13), 14=-27 (LC 12), 15=-120 (LC 9), 16=-94 (LC 8)
Max Grav		10=179 (LC 19), 11=223 (LC 20), 12=168 (LC 26), 13=149 (LC 1), 14=168 (LC 25), 15=231 (LC 19), 16=190 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/34, 2-3=-95/92, 3-4=-80/201, 4-5=-123/287, 5-6=-123/286, 6-7=-83/206, 7-8=-84/98, 8-9=0/34, 2-16=-139/190, 8-10=-132/184
BOT CHORD	15-16=-88/95, 14-15=-88/95, 13-14=-88/95, 12-13=-88/95, 11-12=-88/95, 10-11=-88/95
WEBS	5-13=-176/12, 4-14=-134/132, 3-15=-152/183, 6-12=-133/133, 7-11=-149/186

NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-9-7 to 3-7-6, Exterior(2N) 3-7-6 to 6-0-0, Corner(3R) 6-0-0 to 10-4-13, Exterior(2N) 10-4-13 to 12-9-7 zone; end vertical 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 (I) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 16, 82 lb uplift at joint 10, 27 lb uplift at joint 14, 120 lb uplift at joint 15, 27 lb uplift at joint 12 and 110 lb uplift at joint 11.
- 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.

LOAD CASE(S) Standard



October 3, 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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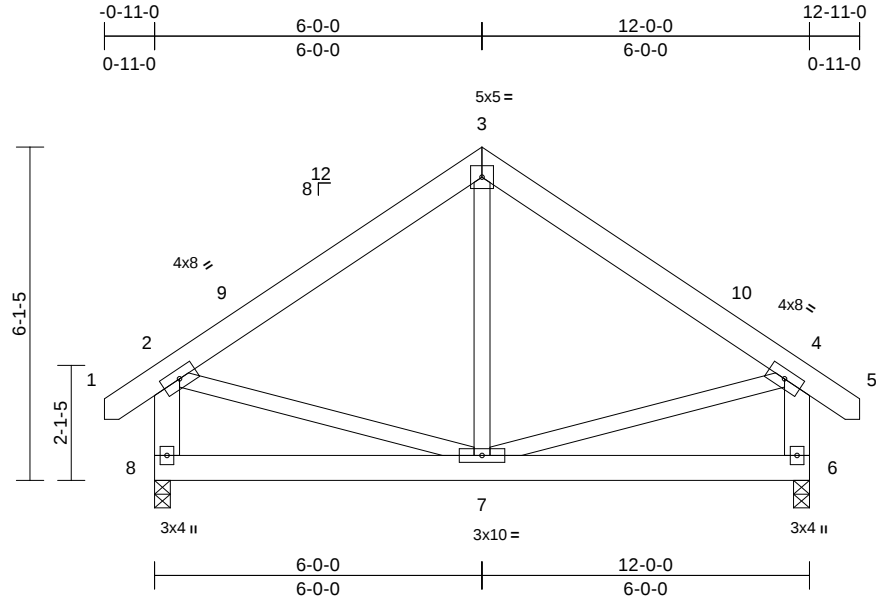
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	
250918-A	H02	Common	5	1	Job Reference (optional)	I76809492

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:25
ID:MRRaIVk7s_JH0XjsYEi8?RyXQnC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:42.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.01	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.00	7	>999	240	Weight: 99 lb	FT = 25%

LUMBER

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

- 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.

BRACING

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

REACTIONS

(size)	6=0-3-8, 8=0-3-8
Max Horiz	8=108 (LC 11)
Max Uplift	6=-31 (LC 13), 8=-31 (LC 12)
Max Grav	6=523 (LC 1), 8=523 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
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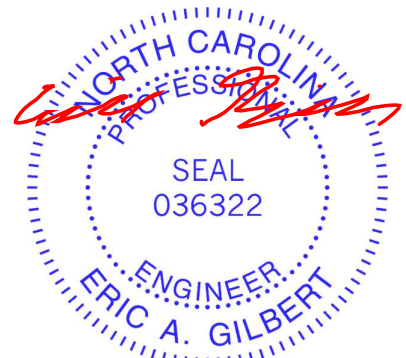
TOP CHORD	1-2=0/34, 2-3=-415/176, 3-4=-415/176, 4-5=0/34, 2-8=-465/237, 4-6=-465/237
BOT CHORD	7-8=-108/187, 6-7=-60/114
WEBS	3-7=0/165, 2-7=-18/214, 4-7=-21/216

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-7 to 3-7-6, Interior (1) 3-7-6 to 6-0-0, Exterior(2R) 6-0-0 to 10-4-13, Interior (1) 10-4-13 to 12-9-7 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 8 and 31 lb uplift at joint 6.

LOAD CASE(S)

Standard



October 3,2025

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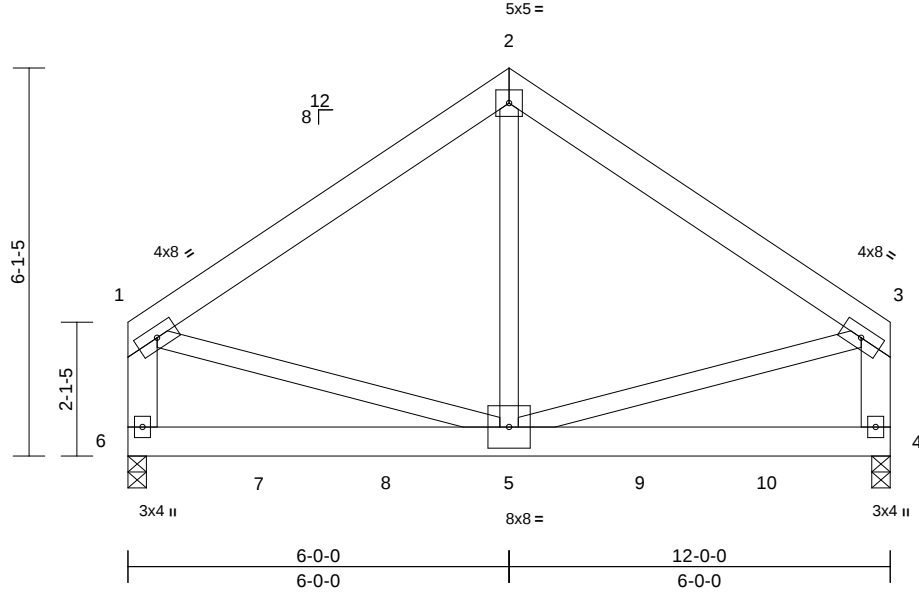
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	
250918-A	H03-GR	Common Girder	1	2	Job Reference (optional)	I76809493

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:25
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.01	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	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	5-6	>999	240	Weight: 188 lb	FT = 25%

LUMBER

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except* 6-1,4-3:2x6 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) 4=0-3-8, 6=0-3-8
Max Horiz 6=-153 (LC 4)
Max Grav 4=1124 (LC 1), 6=1113 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-977/0, 2-3=-977/0, 1-6=-836/0, 3-4=-836/0
BOT CHORD 5-6=-119/253, 4-5=-6/165
WEBS 2-5=0/662, 1-5=0/598, 3-5=0/597

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: 2x6 - 2 rows staggered at 0-9-0 oc.
Web 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=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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) 263 lb down at 2-0-12, 263 lb down at 4-0-12, 263 lb down at 6-0-12, and 263 lb down at 8-0-12, and 263 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 (lb/ft)
Vert: 1-2=-60, 2-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-263 (F), 7=-263 (F), 8=-263 (F), 9=-263 (F), 10=-263 (F)



October 3, 2025

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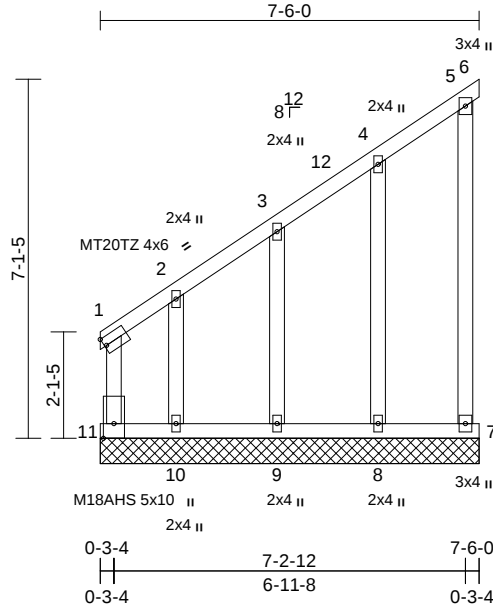
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-A	M01GE	Jack-Partial Supported Gable	2	1	176809494
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:25
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	n/a	-	n/a	999	M18AHS 186/179
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(TL)	n/a	-	n/a	999	MT20TZ 244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	-0.09	6	n/a	n/a	MT20 244/190
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 54 lb FT = 25%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	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=7-6-0, 7=7-6-0, 8=7-6-0, 9=7-6-0, 10=7-6-0, 11=7-6-0
	Max Horiz	11=157 (LC 12)
	Max Uplift	6=-43 (LC 12), 7=-2 (LC 12), 8=-24 (LC 12), 9=-14 (LC 12), 10=-356 (LC 12), 11=-146 (LC 10)
	Max Grav	6=28 (LC 19), 7=59 (LC 1), 8=163 (LC 19), 9=166 (LC 19), 10=257 (LC 19), 11=374 (LC 12)

FORCES

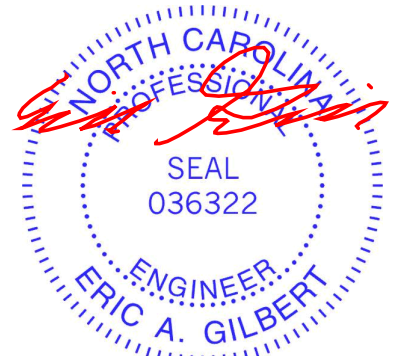
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-11=-548/228, 1-2=-624/279, 2-3=-293/140, 3-4=-165/87, 4-5=-57/32, 5-6=-64/31, 5-7=-44/2
BOT CHORD	10-11=-18/9, 9-10=-18/9, 8-9=-18/9, 7-8=-18/9
WEBS	4-8=-135/173, 3-9=-136/207, 2-10=-290/582

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-3-4 to 4-8-1, Exterior(2N) 4-8-1 to 7-6-0 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.
- All plates are MT20 plates unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 11, 43 lb uplift at joint 6, 2 lb uplift at joint 7, 24 lb uplift at joint 8, 14 lb uplift at joint 9 and 356 lb uplift at joint 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.

LOAD CASE(S) Standard



October 3, 2025

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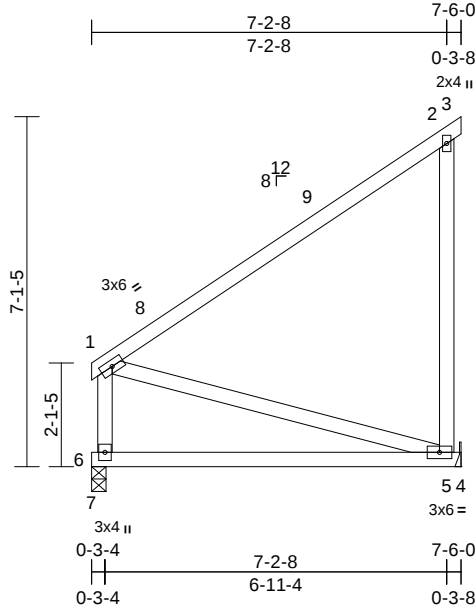
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	I76809495
250918-A	M02	Jack-Partial	14	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:25
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.12	5-6	>690	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.24	5-6	>345	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							Weight: 47 lb	FT = 25%

LUMBER

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

- 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.

LOAD CASE(S) Standard

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 Horiz 6=156 (LC 12)
Max Uplift 5=128 (LC 12)
Max Grav 5=327 (LC 19), 6=283 (LC 1)

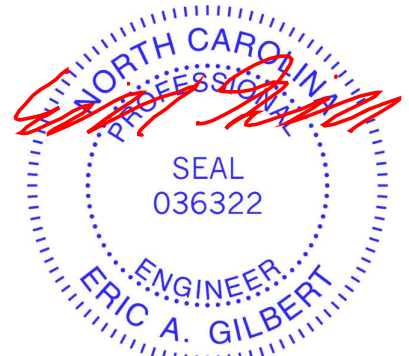
FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-6=-208/2, 1-2=-198/113, 2-3=-3/0
BOT CHORD 6-7=0/0, 5-6=-282/132, 4-5=0/0
WEBS 1-5=-137/293, 2-5=-237/279

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-4 to 4-8-1, Interior (1) 4-8-1 to 7-6-0 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 5.



October 3, 2025

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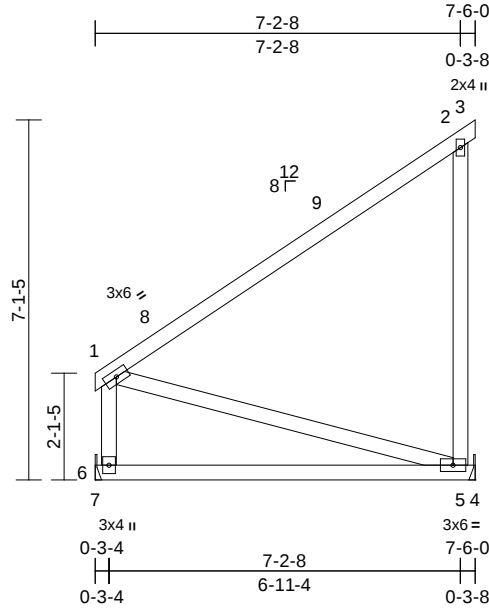
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-A	M03	Jack-Partial	5	1	I76809496
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

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Scale = 1:45.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.12	5-6	>690	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.24	5-6	>345	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							Weight: 47 lb	FT = 25%

LUMBER

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

BRACING

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

REACTIONS	(size) 5= Mechanical, 6= Mechanical
	Max Horiz 6=156 (LC 12)
	Max Uplift 5=128 (LC 12)
	Max Grav 5=327 (LC 19), 6=283 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-6=-208/2, 1-2=-198/113, 2-3=-3/0
BOT CHORD	6-7=0/0, 5-6=-282/132, 4-5=0/0
WEBS	1-5=-137/293, 2-5=-237/279

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-4 to 4-8-1, Interior (1) 4-8-1 to 7-6-0 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 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.

LOAD CASE(S) Standard



October 3,2025

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-A	M04	Monopitch Supported Gable	1	1	Job Reference (optional)

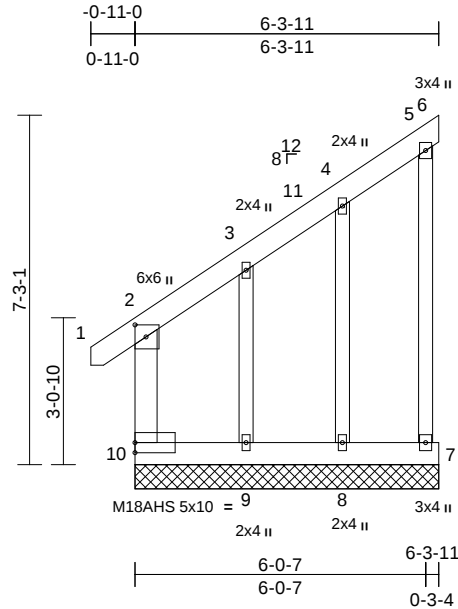
I76809497

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:25

Page: 1

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Scale = 1:47.9

Plate Offsets (X, Y): [2:0-3-0,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	n/a	-	n/a	999	M18AHS 186/179
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	n/a	-	n/a	999	MT20 244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.07	6	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 63 lb FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x6 SP No.1 *Except* 5-7:2x4 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=6-3-11, 7=6-3-11, 8=6-3-11, 9=6-3-11, 10=6-3-11
Max Horiz	10=159 (LC 9)
Max Uplift	6=-33 (LC 12), 7=-18 (LC 12), 9=-310 (LC 12), 10=-105 (LC 10)
Max Grav	6=41 (LC 19), 7=51 (LC 19), 8=159 (LC 1), 9=327 (LC 10), 10=256 (LC 12)

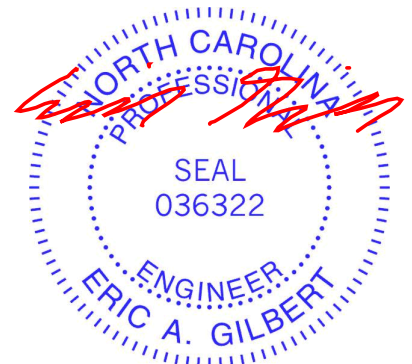
FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	2-10=-324/174, 1-2=0/34, 2-3=-481/236, 3-4=-153/87, 4-5=-63/36, 5-6=-58/34, 5-7=-28/18
BOT CHORD	9-10=-17/8, 8-9=-17/8, 7-8=-17/8
WEBS	4-8=-127/139, 3-9=-325/567

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-2-9 to 4-7-6, Exterior(2N) 4-7-6 to 7-3-11 zone; end vertical left 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 MT20 plates unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 10, 33 lb uplift at joint 6, 18 lb uplift at joint 7 and 310 lb uplift at joint 9.
- 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.

LOAD CASE(S) Standard

October 3, 2025

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-A	M05	Monopitch	4	1	Job Reference (optional)

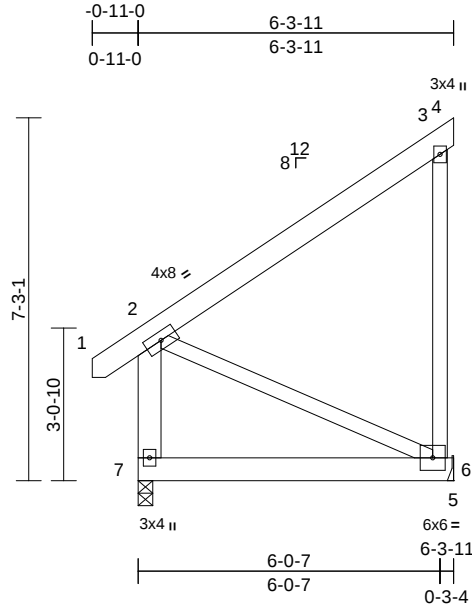
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Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:25

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Scale = 1:46.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	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	0.13	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 59 lb	FT = 25%

LUMBER

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

- 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.

BRACING

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

LOAD CASE(S) Standard

REACTIONS

(size)	6= Mechanical, 7=0-3-8
Max Horiz	7=148 (LC 12)
Max Uplift	6=137 (LC 12)
Max Grav	6=280 (LC 19), 7=298 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
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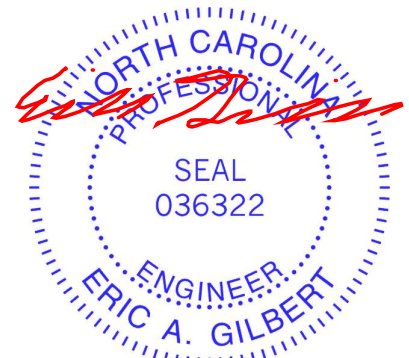
TOP CHORD	1-2=0/34, 2-3=-187/120, 3-4=-3/0,
	3-6=-233/272, 2-7=-240/16

BOT CHORD	6-7=-332/177, 5-6=0/0
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WEBS	2-6=-195/366
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NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-2-9 to 4-7-6, Interior (1) 4-7-6 to 7-3-11 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 6.



October 3, 2025

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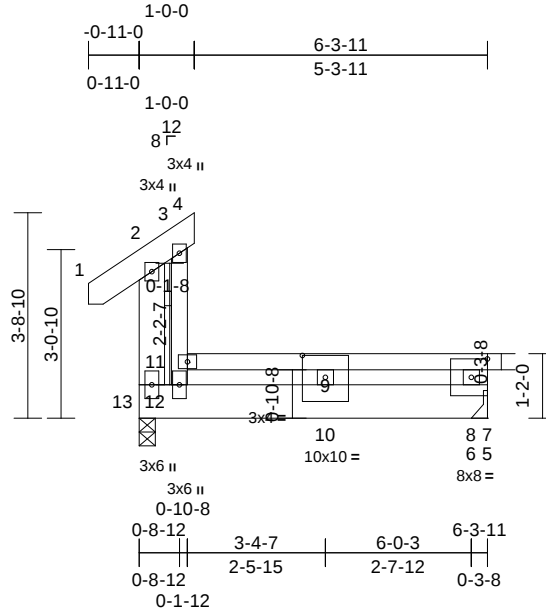
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-A	M06	Roof Special	2	2	176809499
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:25
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Page: 1



Scale = 1:41.7

Plate Offsets (X, Y): [9:0-5-0,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.06	9-11	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.13	9-11	>528	240	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.00	8	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.12	9-11	>567	240	Weight: 86 lb FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x8 SP 2400F 2.0E *Except* 11-5:2x4 SP No.1
WEBS	2x4 SP No.2 *Except* 13-2:2x6 SP No.1

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 3-11
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.

REACTIONS

(size)	8= Mechanical, 13=0-3-8
Max Horiz	13=33 (LC 12)
Max Uplift	8=-297 (LC 12), 13=-236 (LC 12)
Max Grav	8=3510 (LC 19), 13=2896 (LC 19)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/34, 2-3=-51/27, 3-4=-3/0, 11-12=-776/540, 3-11=-68/107, 2-13=-114/16
BOT CHORD	12-13=-24/9, 10-12=0/0, 8-10=0/0, 7-8=0/0, 9-11=0/0, 6-9=0/0, 5-6=0/0
WEBS	6-8=-905/539, 9-10=-1420/847

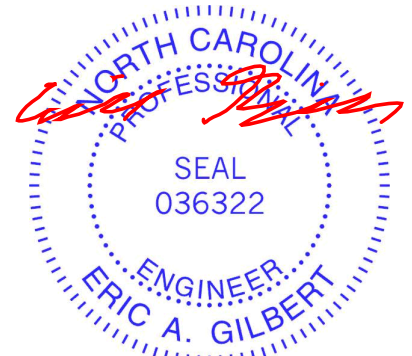
NOTES

- 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, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Web 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=130mph (3-second gust) Vasd=103mph; 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
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 236 lb uplift at joint 13 and 297 lb uplift at joint 8.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 152 lb down and 97 lb up at 1-8-12 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 (lb/ft)
Vert: 1-2=-60, 2-3=-60, 3-4=-20, 12-13=-20, 7-12=-545, 5-11=-545
Concentrated Loads (lb)
Vert: 12=-150



October 3, 2025

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Edenton, NC 27932

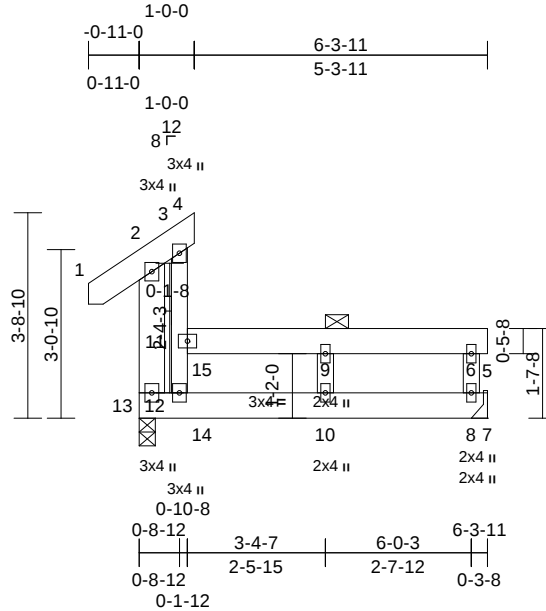
Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-A	M07	Roof Special	4	1	Job Reference (optional)

176809500

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:41.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.05	10-12	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.11	10-12	>617	240	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	8	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.10	10-12	>690	240	Weight: 45 lb FT = 25%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except* 13-2:2x6 SP No.1

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
	Except:
	10-0-0 oc bracing: 3-11

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

JOINTS	1 Brace at Jt(s): 9
--------	---------------------

REACTIONS	(size) 8= Mechanical, 13=0-3-8
	Max Horiz 13=33 (LC 12)
	Max Uplift 8=-18 (LC 12), 13=-34 (LC 12)
	Max Grav 8=882 (LC 19), 13=990 (LC 19)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/34, 2-3=-124/49, 3-4=-3/0, 11-12=-288/164, 3-11=0/143, 2-13=-225/110
BOT CHORD	12-13=-66/60, 10-12=0/0, 8-10=0/0, 7-8=0/0, 9-11=0/0, 6-9=0/0, 5-6=0/0
WEBS	6-8=-455/228, 9-10=-55/90

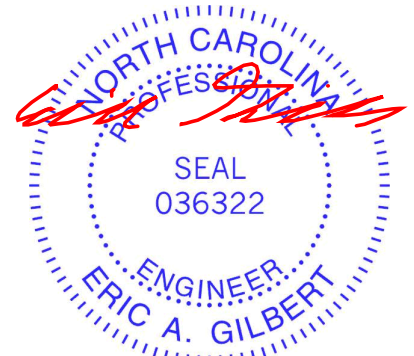
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; 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
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 13 and 18 lb uplift at joint 8.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 304 lb down and 194 lb up at 2-1-12 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 (lb/ft)
Vert: 1-2=-60, 2-3=-60, 3-4=-20, 12-13=-20, 7-12=-130, 5-11=-130
Concentrated Loads (lb)
Vert: 14=-300



October 3, 2025

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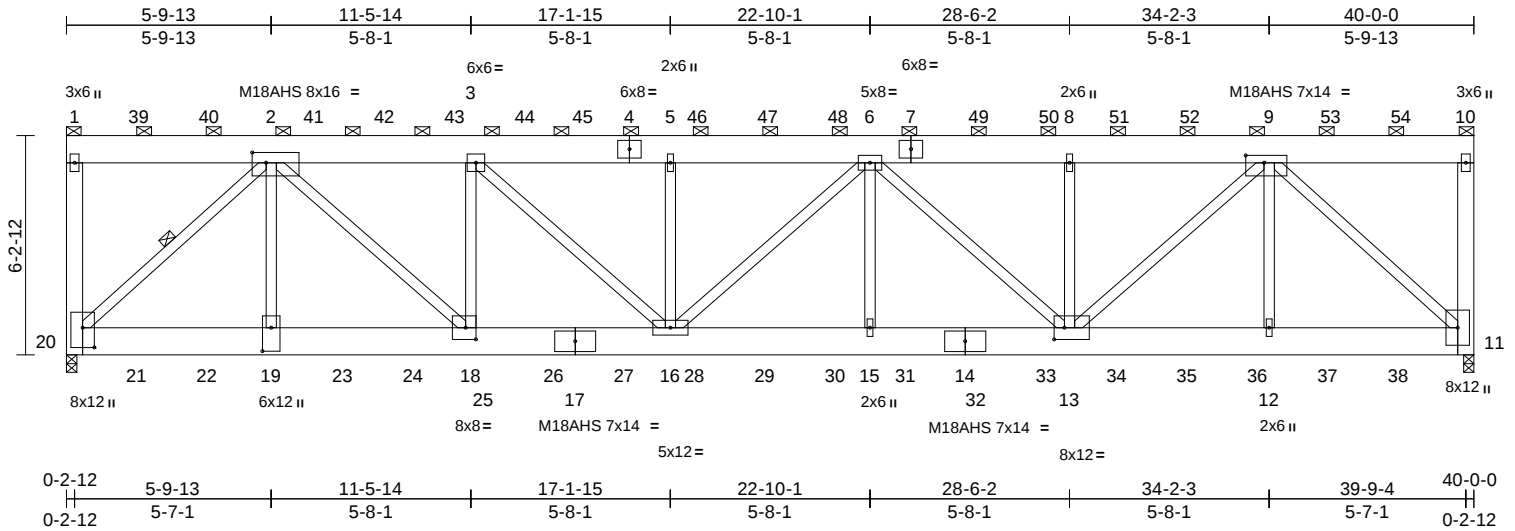
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-A	T1-GR	Flat Girder	1	3	176809501
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

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Plate Offsets (X, Y): [2:0-4-12,0-3-8], [9:0-6-4,0-2-8], [13:0-3-8,0-4-0], [18:0-3-8,0-4-0], [19:0-8-0,0-3-0], [20:0-6-12,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.29	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.56	15-16	>841	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.14	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.19	15-16	>999	240	Weight: 1356 lb	FT = 25%

LUMBER

TOP CHORD 2x10 SP 2400F 2.0E
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except* 20-1,10-11:2x6 SP 2400F 2.0E, 20-2,11-9:2x4 SP 2400F 2.0E, 18-2,16-3,16-6,13-6,13-9:2x4 SP No.1

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-10, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 2-20

REACTIONS (size) 11=0-3-8, 20=0-3-8
Max Uplift 11=-893 (LC 4), 20=-1127 (LC 4)
Max Grav 11=18847 (LC 15), 20=20453 (LC 15)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-1343/65, 10-11=-1454/0, 1-2=-245/14, 2-3=-31392/1712, 3-5=-37121/2038, 5-6=-37121/2038, 6-8=-29476/1646, 8-9=-29476/1646, 9-10=-222/13
BOT CHORD 19-20=-1039/19154, 18-19=-1039/19154, 16-18=-1712/31392, 15-16=-2007/36290, 13-15=-2007/36290, 12-13=-973/17458, 11-12=-973/17458
WEBS 2-20=-26430/1434, 2-19=-201/1612, 2-18=-933/16983, 3-18=-9540/470, 3-16=-452/7951, 5-16=-4724/186, 6-16=-42/1152, 6-15=-163/1898, 6-13=-9457/502, 8-13=-3039/122, 9-13=-933/16677, 9-12=-168/1821, 9-11=-24092/1343

NOTES

- 3-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, 2x10 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Web 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=130mph (3-second gust) Vasd=103mph; TCDL=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.
- All plates are MT20 plates unless otherwise indicated.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 20, 11 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 1127 lb uplift at joint 20 and 893 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 3, 2025

Continued on page 2

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 25 Duncan's Creek
250918-A	T1-GR	Flat Girder	1	3	I76809501
			Job Reference (optional)		

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 384 lb down at 2-0-0, 307 lb down and 140 lb up at 2-0-12, 384 lb down at 4-0-0, 307 lb down and 140 lb up at 4-0-12, 278 lb down and 54 lb up at 5-10-4, 307 lb down and 140 lb up at 6-0-12, 413 lb down at 7-10-4, 307 lb down and 140 lb up at 8-0-12, 413 lb down at 9-10-4, 307 lb down and 140 lb up at 10-0-12, 413 lb down at 11-10-4, 307 lb down and 140 lb up at 12-0-12, 413 lb down at 13-10-4, 307 lb down and 140 lb up at 14-0-12, 397 lb down at 15-10-4, 307 lb down and 140 lb up at 16-0-12, 397 lb down at 17-10-4, 307 lb down and 140 lb up at 18-0-12, 397 lb down at 19-10-4, 307 lb down and 140 lb up at 20-0-12, 397 lb down at 21-10-4, 307 lb down and 140 lb up at 22-0-12, 397 lb down at 23-10-4, 307 lb down and 140 lb up at 24-0-12, 413 lb down at 25-10-4, 307 lb down and 140 lb up at 26-0-12, 397 lb down at 27-10-4, 307 lb down and 140 lb up at 28-0-12, 397 lb down at 29-10-4, 307 lb down and 140 lb up at 30-0-12, 397 lb down at 31-10-4, 307 lb down and 140 lb up at 32-0-12, 397 lb down at 33-10-4, 307 lb down and 140 lb up at 34-0-12, 397 lb down at 35-10-4, 307 lb down and 140 lb up at 36-0-12, and 397 lb down at 37-10-4, and 307 lb down and 140 lb up at 38-0-12 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 (lb/ft)
Vert: 11-20=-20, 1-10=-60
Concentrated Loads (lb)
Vert: 1=-140, 10=-426, 2=-1656, 19=-311 (F=-42, B=-269), 9=-1037, 4=-1265, 7=-1037, 21=-355 (F=-86, B=-269), 22=-355 (F=-86, B=-269), 23=-367 (F=-98, B=-269), 24=-367 (F=-98, B=-269), 25=-367 (F=-98, B=-269), 26=-367 (F=-98, B=-269), 27=-363 (F=-94, B=-269), 28=-363 (F=-94, B=-269), 29=-363 (F=-94, B=-269), 30=-363 (F=-94, B=-269), 31=-363 (F=-94, B=-269), 32=-367 (F=-98, B=-269), 33=-363 (F=-94, B=-269), 34=-363 (F=-94, B=-269), 35=-363 (F=-94, B=-269), 36=-363 (F=-94, B=-269), 37=-363 (F=-94, B=-269), 38=-363 (F=-94, B=-269), 39=-1265, 40=-1265, 41=-1066, 42=-1066, 43=-1066, 44=-1066, 45=-1638, 46=-1265, 47=-1265, 48=-1037, 49=-1037, 50=-1037, 51=-1037, 52=-1037, 53=-1037, 54=-1037

 **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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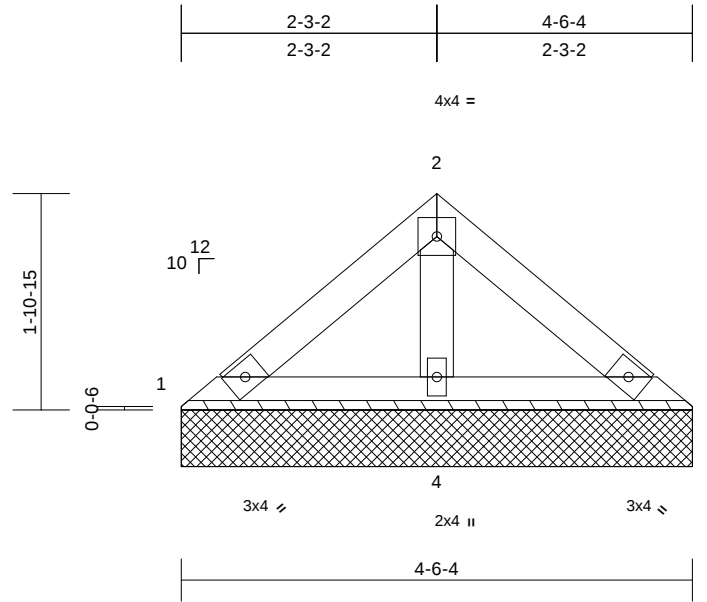
Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-A	VC1	Valley	1	1	Job Reference (optional)

I76809502

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:20.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 16 lb FT = 25%

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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=4-6-4, 3=4-6-4, 4=4-6-4
Max Horiz 1=-41 (LC 10)
Max Uplift 3=-45 (LC 25), 4=-19 (LC 12)
Max Grav 1=0 (LC 8), 3=45 (LC 26), 4=361 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

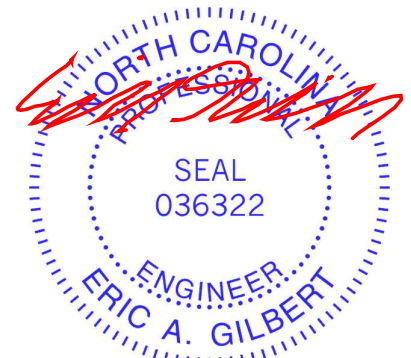
TOP CHORD 1-2=-168/171, 2-3=-77/164
BOT CHORD 1-4=-156/167, 3-4=-146/141
WEBS 2-4=-266/187

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; 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
- 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 4-0-0 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 3 and 19 lb uplift at joint 4.
- 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.

LOAD CASE(S) Standard



October 3, 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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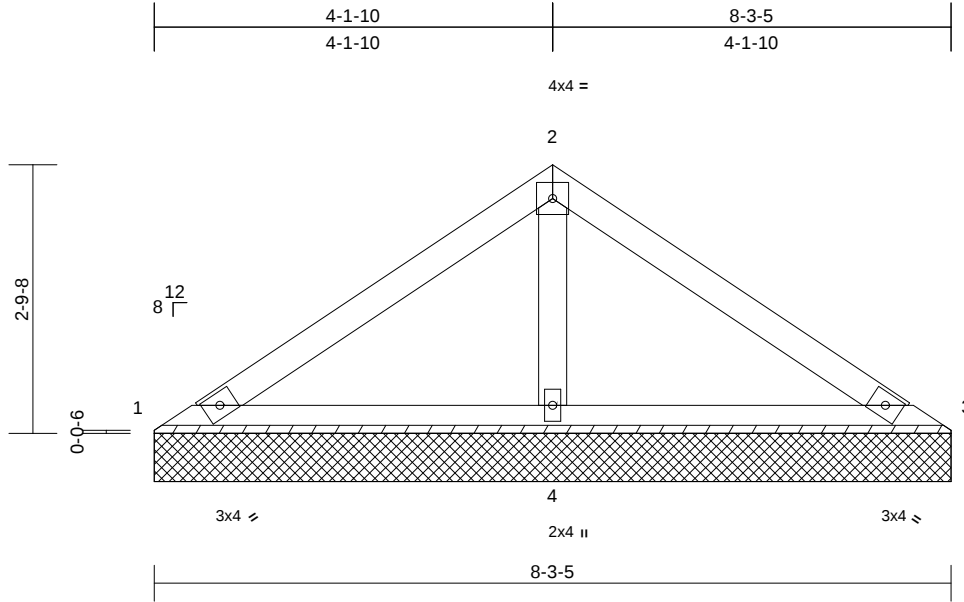
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	I76809503
250918-A	VD1	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 29 lb	FT = 25%

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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=8-3-5, 3=8-3-5, 4=8-3-5
Max Horiz 1=63 (LC 9)
Max Uplift 1=-11 (LC 26), 3=-12 (LC 8), 4=-46 (LC 12)
Max Grav 1=72 (LC 25), 3=72 (LC 26), 4=580 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

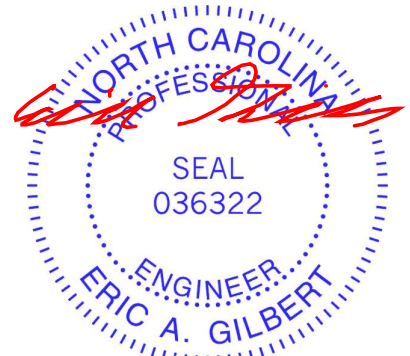
TOP CHORD 1-2=-134/253, 2-3=-134/253
BOT CHORD 1-4=-232/202, 3-4=-232/202
WEBS 2-4=-420/275

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; 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
- 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 4-0-0 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1, 12 lb uplift at joint 3 and 46 lb uplift at joint 4.
- 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.

LOAD CASE(S) Standard



October 3, 2025

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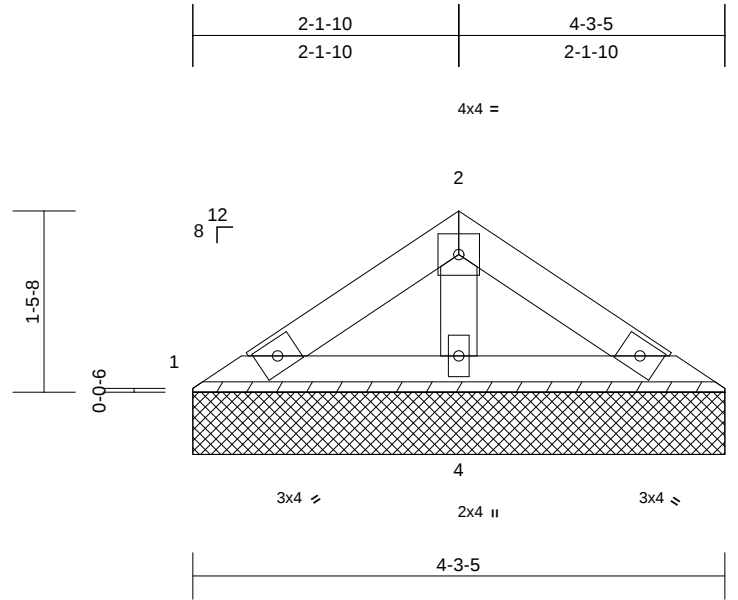
Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-A	VD2	Valley	1	1	Job Reference (optional)

I76809504

Comtech, Inc, Fayetteville, NC - 28314,

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 14 lb FT = 25%

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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=4-3-5, 3=4-3-5, 4=4-3-5
Max Horiz 1=-31 (LC 8)
Max Uplift 1=-4 (LC 12), 3=-8 (LC 13), 4=-12 (LC 12)
Max Grav 1=59 (LC 25), 3=59 (LC 26), 4=241 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-54/72, 2-3=-54/71
BOT CHORD 1-4=-73/79, 3-4=-73/79
WEBS 2-4=-137/92

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; 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
- 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 4-0-0 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1, 8 lb uplift at joint 3 and 12 lb uplift at joint 4.
- 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.

LOAD CASE(S) Standard



October 3, 2025

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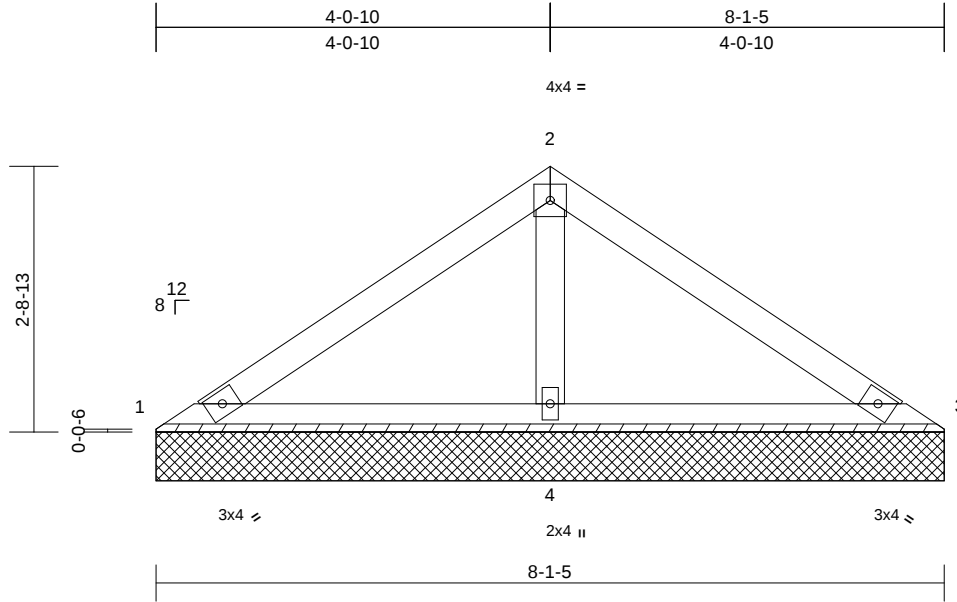
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	I76809505
250918-A	VH1	Valley	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 28 lb	FT = 25%

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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=8-1-5, 3=8-1-5, 4=8-1-5
Max Horiz 1=61 (LC 9)
Max Uplift 1=-9 (LC 26), 3=-11 (LC 8), 4=-45 (LC 12)
Max Grav 1=72 (LC 25), 3=72 (LC 26), 4=564 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-129/243, 2-3=-129/243
BOT CHORD 1-4=-224/198, 3-4=-224/198
WEBS 2-4=-406/268

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; 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
- 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 4'-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 30.0psf on the bottom chord in all areas where a rectangle 3'-0" x 6'-0" tall by 2'-0" x 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 9 lb uplift at joint 1, 11 lb uplift at joint 3 and 45 lb uplift at joint 4.
- 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.

LOAD CASE(S) Standard



October 3, 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

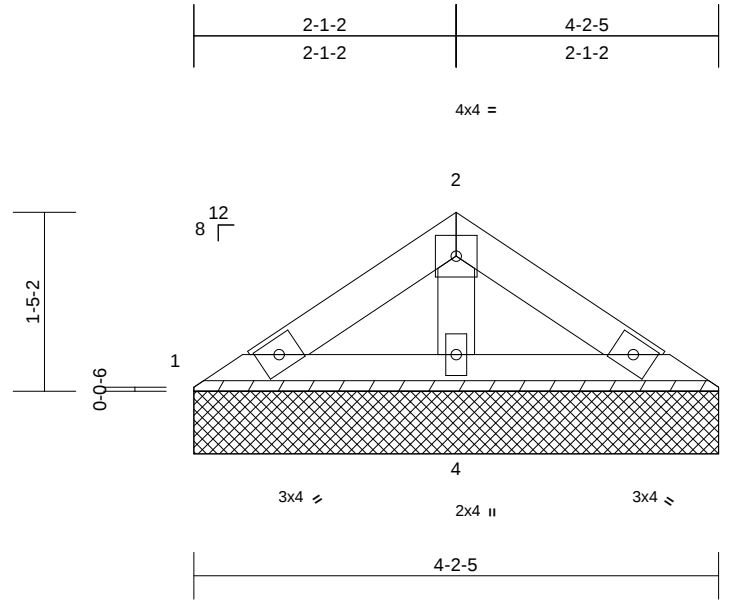
Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-A	VH2	Valley	1	1	Job Reference (optional)

I76809506

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:15:26
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Page: 1



Scale = 1:18.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 13 lb FT = 25%

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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=4-2-5, 3=4-2-5, 4=4-2-5
Max Horiz 1=-30 (LC 10)
Max Uplift 1=-4 (LC 12), 3=-8 (LC 13), 4=-12 (LC 12)
Max Grav 1=58 (LC 25), 3=58 (LC 26), 4=236 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-53/70, 2-3=-53/68
BOT CHORD 1-4=-70/77, 3-4=-70/77
WEBS 2-4=-132/88

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; 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
- 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 4-0-0 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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1, 8 lb uplift at joint 3 and 12 lb uplift at joint 4.
- 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.

LOAD CASE(S) Standard



October 3, 2025

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

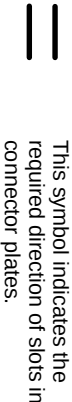
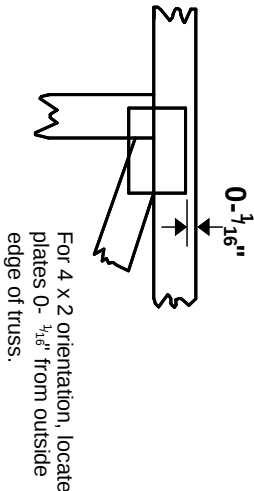
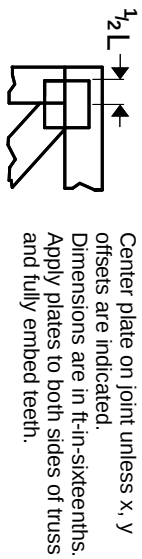
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

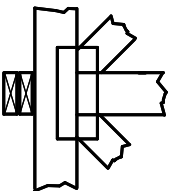
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

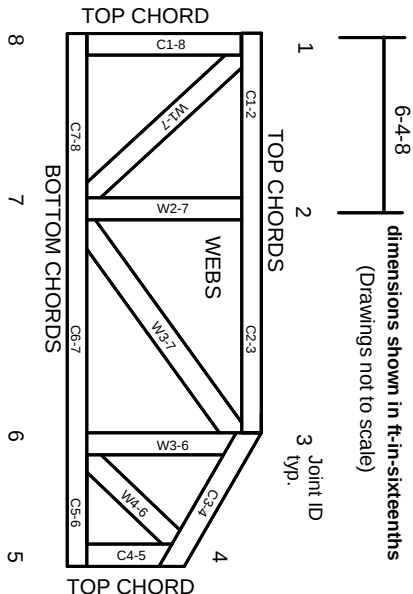
BEARING



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/TPI.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/TPI 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 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: MII-7473 rev. 1/2/2023

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: 250918-B
Lot 25 Duncan's Creek

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

Pages or sheets covered by this seal: I76809453 thru I76809468

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

North Carolina COA: C-0844



October 3, 2025

Gilbert, Eric

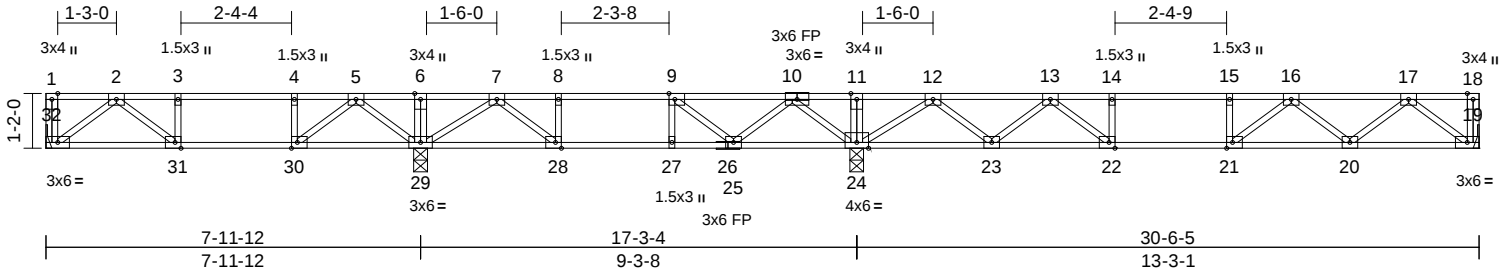
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-B	F01	Floor	2	1	176809453
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:49.1

Plate Offsets (X, Y): [9:0-1-8,Edge], [21:0-1-8,Edge], [22:0-1-8,Edge], [28:0-1-8,Edge], [30:0-1-8,Edge], [31:0-1-8,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	0.57	Vert(LL)	-0.13	20-21	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.17	20-21	>946	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.03	19	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 150 lb	FT = 20%F, 11%E

LUMBER

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

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) 19= Mechanical, 24=0-3-8, 29=0-3-8, 32= Mechanical
Max Grav 19=662 (LC 5), 24=1410 (LC 11), 29=927 (LC 3), 32=404 (LC 14)

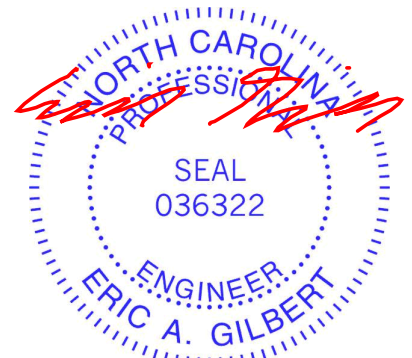
FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-32=-57/0, 18-19=-41/0, 1-2=0/0, 2-3=-671/0, 3-4=-671/0, 4-5=-671/0, 5-6=0/407, 6-7=0/408, 7-8=-739/183, 8-9=-739/183, 9-11=-415/1141, 11-12=0/1141, 12-13=-920/79, 13-14=-1853/0, 14-15=-1853/0, 15-16=-1853/0, 16-17=-1276/0, 17-18=0/0
BOT CHORD 31-32=0/437, 30-31=0/671, 29-30=-82/302, 28-29=-181/435, 27-28=-183/739, 25-27=-183/739, 24-25=-525/76, 23-24=-279/361, 22-23=0/1469, 21-22=0/1853, 20-21=0/1692, 19-20=0/810
WEBS 6-29=-190/0, 11-24=-125/0, 5-29=-641/0, 2-32=-548/0, 5-30=0/559, 2-31=0/299, 3-31=-173/4, 4-30=-295/0, 10-24=-875/0, 7-29=-664/0, 10-25=0/526, 7-28=-3/409, 9-25=-552/0, 8-28=-213/4, 9-27=-4/75, 12-24=-1342/0, 17-19=-1017/0, 12-23=0/770, 17-20=0/607, 13-23=-771/0, 16-20=-541/0, 13-22=0/700, 16-21=-45/313, 14-22=-325/0, 15-21=-169/19

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 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



October 3, 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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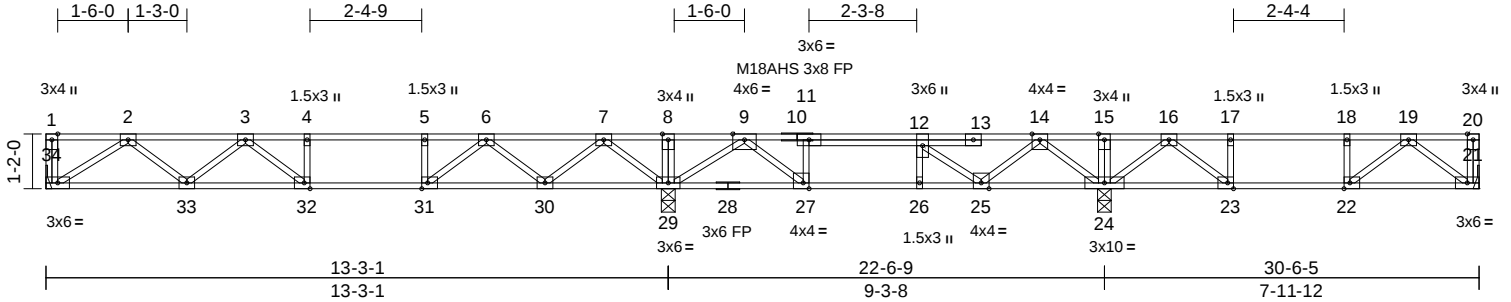
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-B	F02-GR	Floor Girder	1	1	Job Reference (optional)
					I76809454

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:49.1

Plate Offsets (X, Y): [22:0-1-8,Edge], [23:0-1-8,Edge], [27:0-1-8,Edge], [31:0-1-8,Edge], [32:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.12	25-26	>947	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.15	25-26	>729	240	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.03	24	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S								
											Weight: 155 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(flat) *Except* 10-20:2x4 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 6-0-0 oc
bracing.

REACTIONS (size) 21= Mechanical, 24=0-3-8,
29=0-3-8, 34= Mechanical
Max Uplift 21=38 (LC 3)
Max Grav 21=294 (LC 5), 24=1439 (LC 11),
29=1230 (LC 16), 34=562 (LC 14)

FORCES

(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-34=-44/0, 20-21=-42/9, 1-2=0/0,
2-3=-1177/0, 3-4=-1676/0, 4-5=-1676/0,
5-6=-1676/0, 6-7=-974/0, 7-8=-111/477,
8-9=-110/478, 9-11=-1614/0, 11-12=-1612/0,
12-14=-928/10, 14-15=0/1219, 15-16=0/1219,
16-17=-428/326, 17-18=-428/326,
18-19=-428/326, 19-20=0/0
BOT CHORD 33-34=0/794, 32-33=0/1523, 31-32=0/1676,
30-31=0/1398, 29-30=0/525, 27-29=-227/876,
26-27=0/1614, 25-26=0/1614,
24-25=-125/231, 23-24=-723/61,
22-23=-326/428, 21-22=-77/311

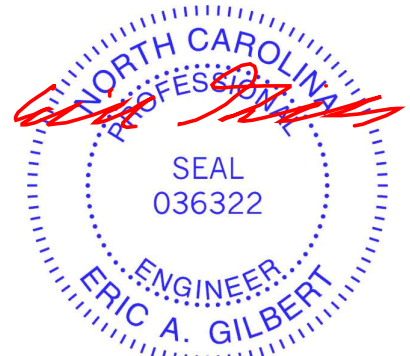
WEBS 8-29=-169/0, 15-24=-94/0, 7-29=-938/0,
2-34=-943/0, 7-30=0/604, 2-33=0/499,
6-30=-594/0, 3-33=-450/0, 6-31=0/453,
3-32=0/334, 4-32=-169/0, 5-31=-218/0,
14-24=-1561/0, 9-29=-998/0, 14-25=0/980,
9-27=0/1084, 12-25=-856/0, 11-27=-544/0,
12-26=-168/0, 16-24=-723/0, 19-21=-390/96,
16-23=0/788, 19-22=-318/149, 17-23=-387/0,
18-22=-95/155

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 (=) MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 21.
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- 8) CAUTION, Do not erect truss backwards.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 715 lb down at 18-6-9 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) 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 (lb/ft)
Vert: 21-34=-8, 1-20=-80
Concentrated Loads (lb)
Vert: 12=-651 (F)



October 3, 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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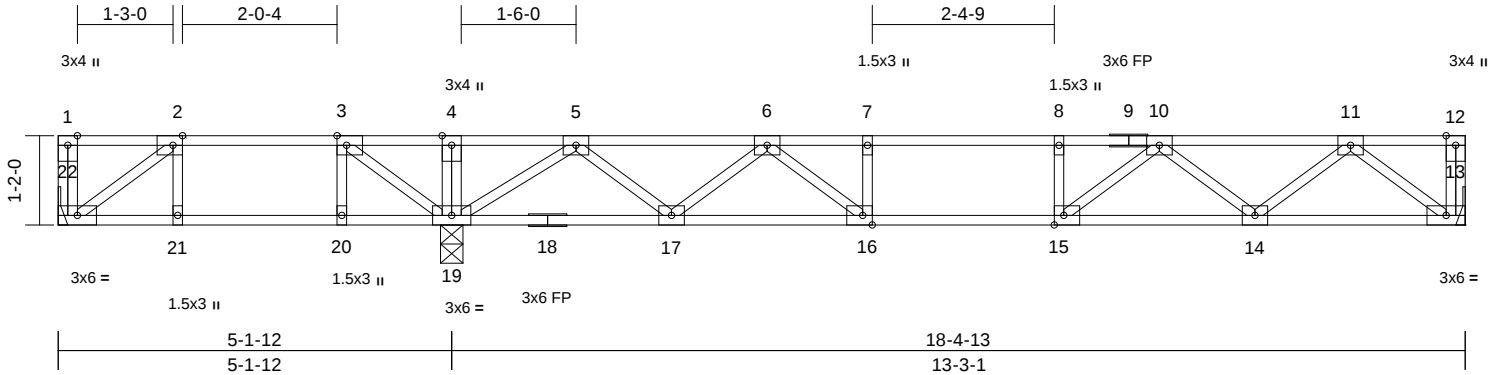
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-B	F03	Floor	4	1	Job Reference (optional)
					I76809455

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:10:14
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Page: 1



Scale = 1:30.1

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [15:0-1-8,Edge], [16:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.12	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.15	14-15	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.03	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 92 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) 13= Mechanical, 19=0-3-8, 22= Mechanical
Max Uplift 22=-7 (LC 4)
Max Grav 13=694 (LC 7), 19=1117 (LC 8), 22=251 (LC 3)

FORCES

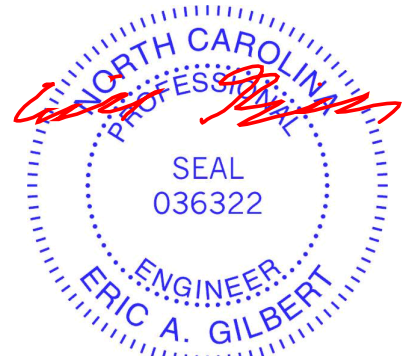
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=-85/0, 12-13=-40/0, 1-2=0/0, 2-3=-243/114, 3-4=0/474, 4-5=0/474, 5-6=-1244/0, 6-7=-2050/0, 7-8=-2050/0, 8-10=-2050/0, 10-11=-1352/0, 11-12=0/0
BOT CHORD 21-22=-114/243, 20-21=-114/243, 19-20=-114/243, 17-19=0/715, 16-17=0/1743, 15-16=0/2050, 14-15=0/1812, 13-14=0/852
WEBS 4-19=-82/0, 3-19=-668/0, 2-22=-300/141, 2-21=-67/0, 3-20=0/107, 5-19=-1267/0, 11-13=-1069/0, 5-17=0/702, 11-14=0/651, 6-17=-670/0, 10-14=-600/0, 6-16=0/574, 10-15=0/482, 7-16=-274/0, 8-15=-237/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 (=) MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 22.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



October 3, 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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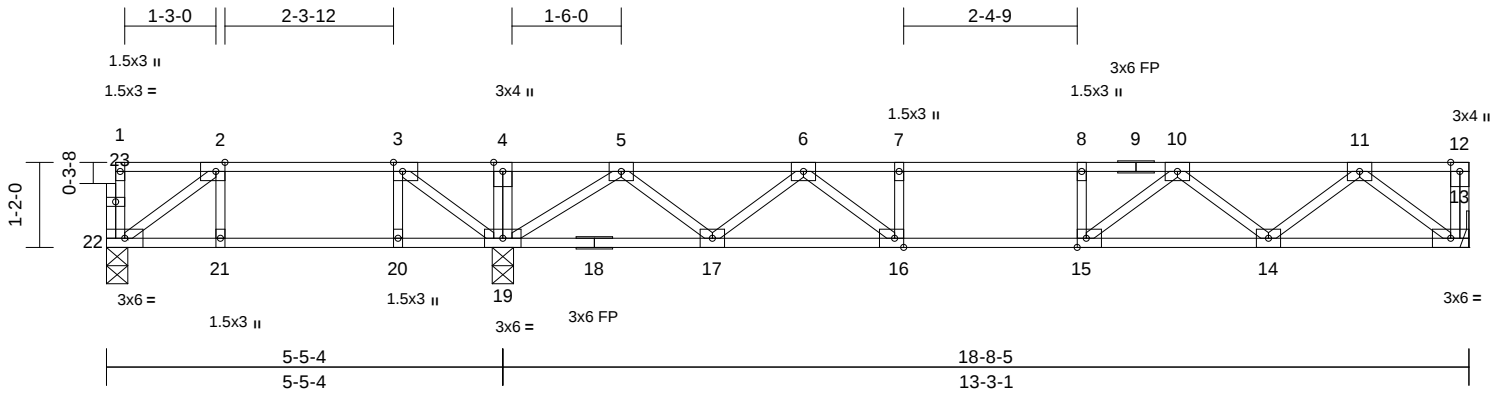
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-B	F04	Floor	3	1	Job Reference (optional)
					I76809456

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:10:14
ID:HTTzYAGtXX8FcjEkx?GtcyXKqx-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:31.6

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [15:0-1-8,Edge], [16:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.12	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.15	14-15	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.03	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 92 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)

- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

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) 13= Mechanical, 19=0-3-8, 22=0-3-8
Max Grav 13=698 (LC 7), 19=1117 (LC 8), 22=264 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-22=-76/0, 12-13=-40/0, 1-2=-5/0, 2-3=-278/84, 3-4=0/426, 4-5=0/426, 5-6=-1280/0, 6-7=-2072/0, 7-8=-2072/0, 8-10=-2072/0, 10-11=-1360/0, 11-12=0/0
BOT CHORD 21-22=-84/278, 20-21=-84/278, 19-20=-84/278, 17-19=0/755, 16-17=0/1773, 15-16=0/2072, 14-15=0/1826, 13-14=0/856
WEBS 4-19=-75/0, 3-19=-677/0, 2-22=-340/106, 2-21=-55/1, 3-20=0/99, 5-19=-1264/0, 11-13=-1074/0, 5-17=0/697, 11-14=0/656, 6-17=-663/0, 10-14=-606/0, 6-16=0/572, 10-15=0/494, 7-16=-274/0, 8-15=-242/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 (=) MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.



October 3, 2025

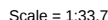
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Comtech, Inc, Fayetteville, NC - 28314, Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:10:14 Page: 1
ID:WT2o?3aALWbSNcIEFPTMw5vXKqX-RfC?PsB70Hg3NSqPanL8w3uITXbGKWCrD0i7J4zJC?i



Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.11	16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.15	16	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 100 lb	FT = 20%F, 11%E

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)

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 24.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 23-24,22-23,21-22.

Max Uplift 24=-36 (LC 4)
Max Grav 13=613 (LC 7), 21=1000 (LC 8),
24=187 (LC 3)

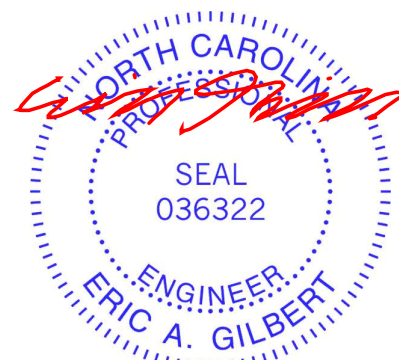
Tension

TOP CHORD 1-24=-75/0, 12-13=-34/0, 1-2=-5/0,
2-3=-174/161, 3-4=0/520, 4-5=0/520,
5-6=-978/0, 6-7=-1776/0, 7-8=-2066/0,
8-10=-1900/0, 10-11=-1243/0, 11-12=-2/0

BOT CHORD 23-24=-161/174, 22-23=-161/174,
21-22=-161/174, 19-21=0/423, 18-19=0/1501,
17-18=0/2066, 16-17=0/2066, 15-16=0/2066,
14-15=0/1705, 13-14=0/756

WEBS 4-21=-40/23, 3-21=-594/0, 2-24=-211/202,
2-23=-73/0, 3-22=0/106, 5-21=-1066/0,
11-13=-946/0, 5-19=0/733, 11-14=0/634,
6-19=-693/0, 10-14=-601/0, 6-18=0/382,
10-15=0/297, 7-18=-473/0, 8-15=-345/6,
7-17=-67/141. 8-16=-118/89

- 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.



October 3.2025



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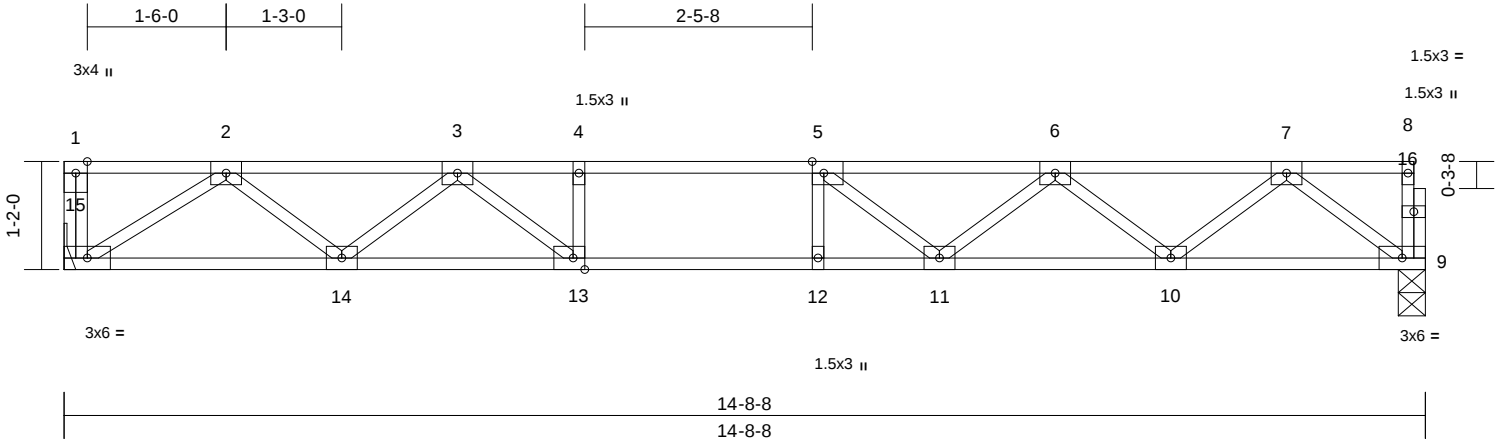
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	
250918-B	F06	Floor	3	1	Job Reference (optional)	I76809458

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:10:14
ID:ezKjkVkkHWRcRcCKWdCPyryXKqK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:24.9

Plate Offsets (X, Y): [5:0-1-8,Edge], [13:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.16	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.21	11-12	>831	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 73 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

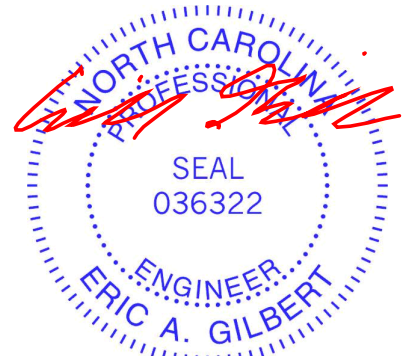
REACTIONS (size) 9=0-3-8, 15= Mechanical
Max Grav 9=631 (LC 1), 15=636 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-44/0, 8-9=-34/0, 1-2=0/0, 2-3=-1368/0, 3-4=-2154/0, 4-5=-2154/0, 5-6=-1988/0, 6-7=-1287/0, 7-8=-2/0
BOT CHORD 14-15=0/906, 13-14=0/1821, 12-13=0/2154, 11-12=0/2154, 10-11=0/1772, 9-10=0/779
WEBS 7-9=-974/0, 2-15=-1076/0, 7-10=0/662, 2-14=0/601, 6-10=-632/0, 3-14=-590/0, 6-11=0/346, 3-13=0/592, 5-11=-390/0, 4-13=-258/0, 5-12=-116/71

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 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



October 3, 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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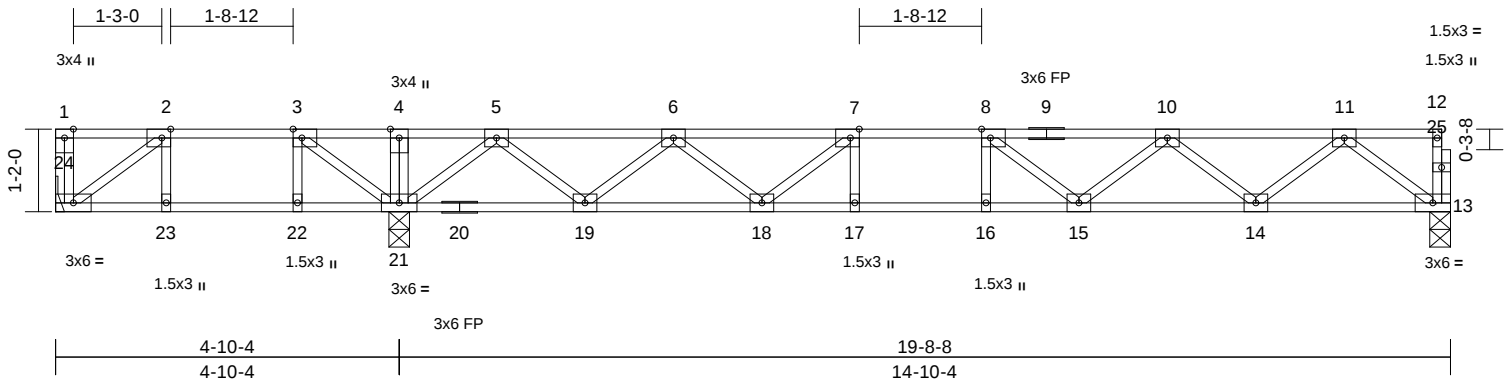
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-B	F07	Floor	6	1	176809459
Job Reference (optional)					

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:10:14
ID:6RQWWfyd22i3bNaCaPWdgeyXKq2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.6

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [7:0-1-8,Edge], [8:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.11	16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.15	16	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 99 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 23-24,22-23,21-22.

REACTIONS (size) 13=0-3-8, 21=0-3-8, 24=
Mechanical
Max Uplift 24=-59 (LC 4)
Max Grav 13=608 (LC 7), 21=1012 (LC 8),
24=174 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-24=-81/0, 12-13=-34/0, 1-2=0/0,
2-3=-143/201, 3-4=0/585, 4-5=0/585,
5-6=-922/0, 6-7=-1731/0, 7-8=-2032/0,
8-10=-1876/0, 10-11=-1231/0, 11-12=-2/0
BOT CHORD 23-24=-201/143, 22-23=-201/143,
21-22=-201/143, 19-21=0/361, 18-19=0/1450,
17-18=0/2032, 16-17=0/2032, 15-16=0/2032,
14-15=0/1688, 13-14=0/750
WEBS 4-21=-46/19, 3-21=-607/0, 2-24=-176/248,
2-23=-88/0, 3-22=0/119, 5-21=-1074/0,
11-13=-938/0, 5-19=0/741, 11-14=0/627,
6-19=-699/0, 10-14=-594/0, 6-18=0/385,
10-15=0/290, 7-18=-479/0, 8-15=-333/12,
7-17=-62/143, 8-16=-121/85

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 24.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard



October 3,2025

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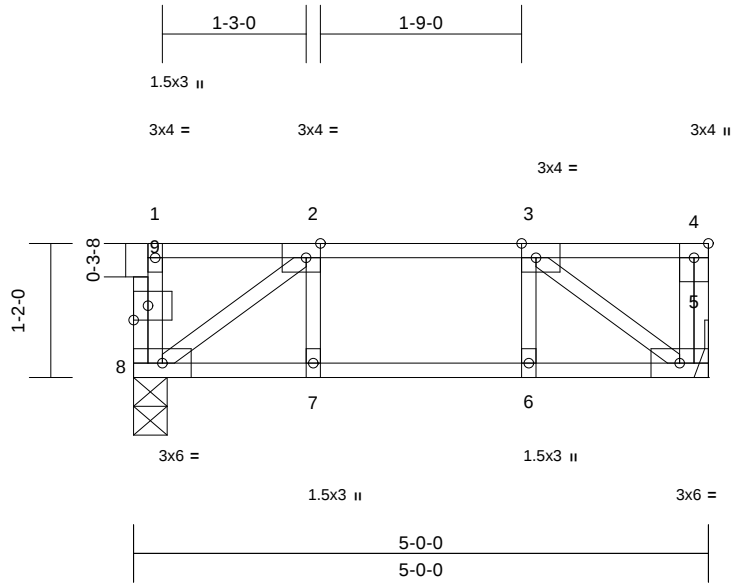
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-B	F08	Floor	2	1	Job Reference (optional)
					I76809460

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:10:14
ID:TODPZM0mtaLh8T9Mz6oNhyXKpz-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:20

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8,0-1-8]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	-0.01	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.08	Vert(CT)	-0.01	6	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 27 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
 5-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
 bracing.

REACTIONS (size) 5= Mechanical, 8=0-3-8
 Max Grav 5=209 (LC 1), 8=204 (LC 1)

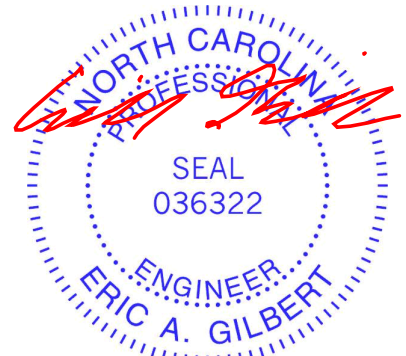
FORCES (lb) - Maximum Compression/Maximum
 Tension

TOP CHORD 1-8=-45/6, 4-5=-47/4, 1-2=-3/0, 2-3=-222/0,
 3-4=0/0
 BOT CHORD 7-8=0/222, 6-7=0/222, 5-6=0/222
 WEBS 3-5=-274/0, 2-8=-271/0, 2-7=-1/30, 3-6=-2/29

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 10-00-00 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.

LOAD CASE(S) Standard



October 3,2025

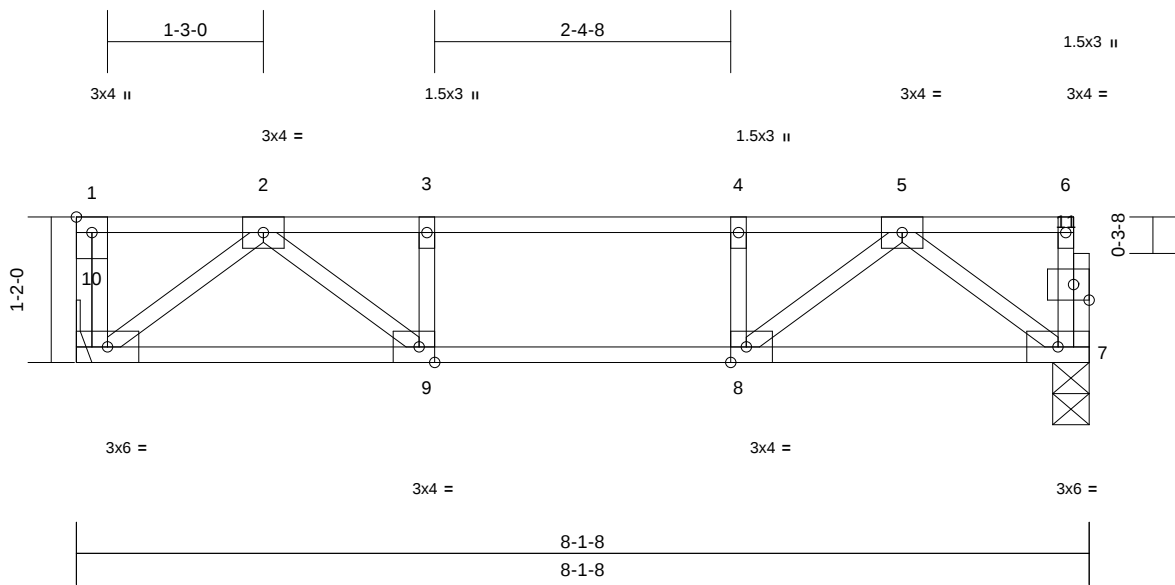
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-B	F09	Floor	5	1	Job Reference (optional)
					I76809461



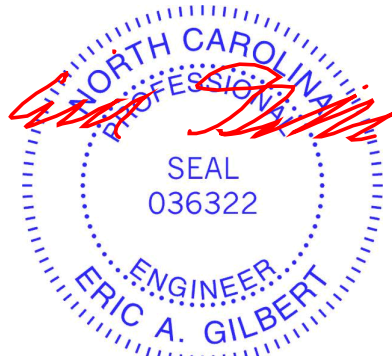
Scale = 1:18.5

Plate Offsets (X, Y): [1: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	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.03	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.23	Vert(CT)	-0.04	7-8	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	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)
- OTHERS 2x4 SP No.3(flat)
- BRACING
- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS (size) 7=0-3-8, 10= Mechanical
- Max Grav 7=427 (LC 1), 10=433 (LC 1)
- FORCES (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-10=-61/0, 6-7=-59/0, 1-2=0/0, 2-3=-778/0, 3-4=-778/0, 4-5=-778/0, 5-6=-4/0
- BOT CHORD 9-10=0/475, 8-9=0/778, 7-8=0/474
- WEBS 5-7=-590/0, 2-10=-596/0, 5-8=0/434, 2-9=0/433, 3-9=-220/0, 4-8=-220/0

- 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 10-00-00 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.
- LOAD CASE(S) Standard



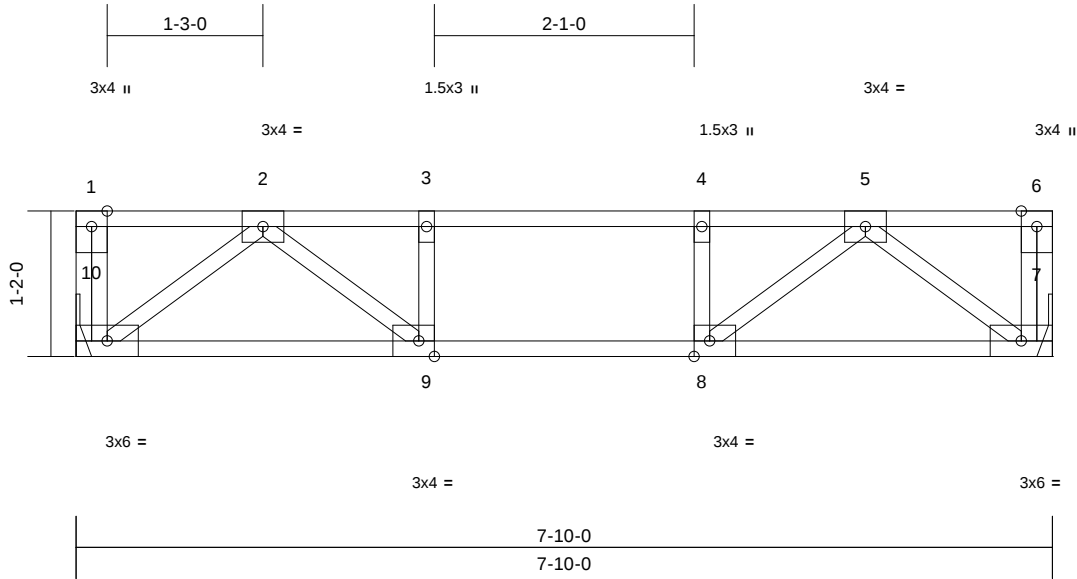
October 3,2025

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-B	F10	Floor	11	1	Job Reference (optional)
					I76809462

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:10:14
ID:JdgAnLvajtj7y?3S1v7T8MyXMAc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:18.5

Plate Offsets (X, Y): [8:0-1-8,Edge], [9:0-1-8,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	0.24	Vert(LL)	-0.03	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.03	9-10	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	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) 7= Mechanical, 10= Mechanical
Max Grav 7=417 (LC 1), 10=417 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-10=-59/0, 6-7=-59/0, 1-2=0/0, 2-3=-727/0,
3-4=-727/0, 4-5=-727/0, 5-6=0/0

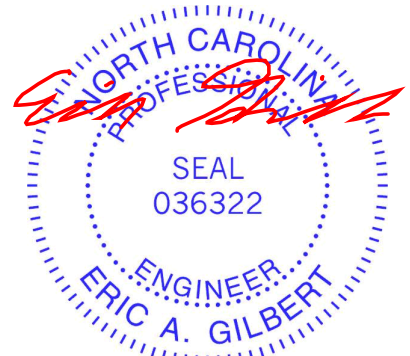
BOT CHORD 9-10=0/456, 8-9=0/727, 7-8=0/456

WEBS 5-7=-572/0, 2-10=-572/0, 5-8=0/391,
2-9=0/391, 3-9=-195/0, 4-8=-195/0

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 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



October 3, 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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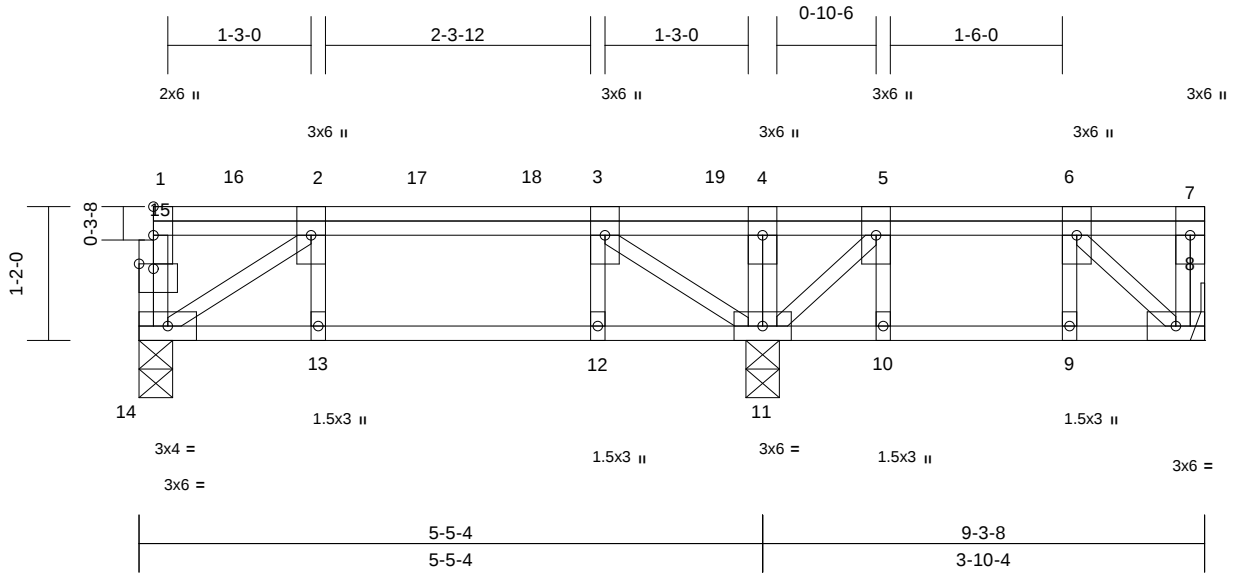
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek	I76809463
250918-B	F11-GR	Floor Girder	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:10:14
ID:bi5c?FnoVFPGN_MS6PGzByXKoz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f

Page: 1



Scale = 1:20.1

Plate Offsets (X, Y): [15:0-1-8,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	-0.01	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.17	Vert(CT)	-0.02	12-13	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 61 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (size) 8= Mechanical, 11=0-3-8, 14=0-3-8
Max Grav 8=359 (LC 7), 11=1047 (LC 8), 14=567 (LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-14=-112/38, 7-8=-79/6, 1-2=-7/2, 2-3=-677/0, 3-4=-10/171, 4-5=-11/169, 5-6=-329/0, 6-7=0/0
BOT CHORD 13-14=0/677, 12-13=0/677, 11-12=0/677, 10-11=0/329, 9-10=0/329, 8-9=0/329
WEBS 4-11=-206/21, 2-14=-812/0, 3-11=-929/0, 2-13=0/23, 3-12=0/28, 5-11=-546/0, 6-8=-450/0, 5-10=0/23, 6-9=-3/18

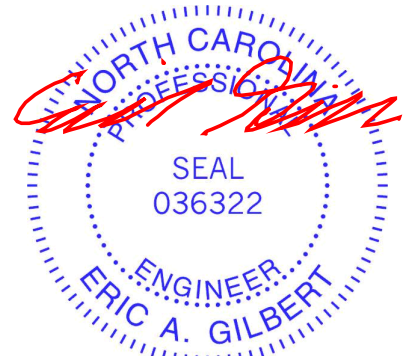
NOTES

- 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 10-00-00 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) 159 lb down and 138 lb up at 0-9-15, 158 lb down and 139 lb up at 2-5-2, 158 lb down and 139 lb up at 3-5-2, 158 lb down and 139 lb up at 5-0-5, and 158 lb down and 139 lb up at 6-7-8, and 158 lb down and 139 lb up at 8-2-11 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 (lb/ft)
Vert: 8-14=-10, 1-7=-100
Concentrated Loads (lb)
Vert: 5=-94 (F), 6=-94 (F), 16=-102 (F), 17=-94 (F), 18=-94 (F), 19=-94 (F)



October 3, 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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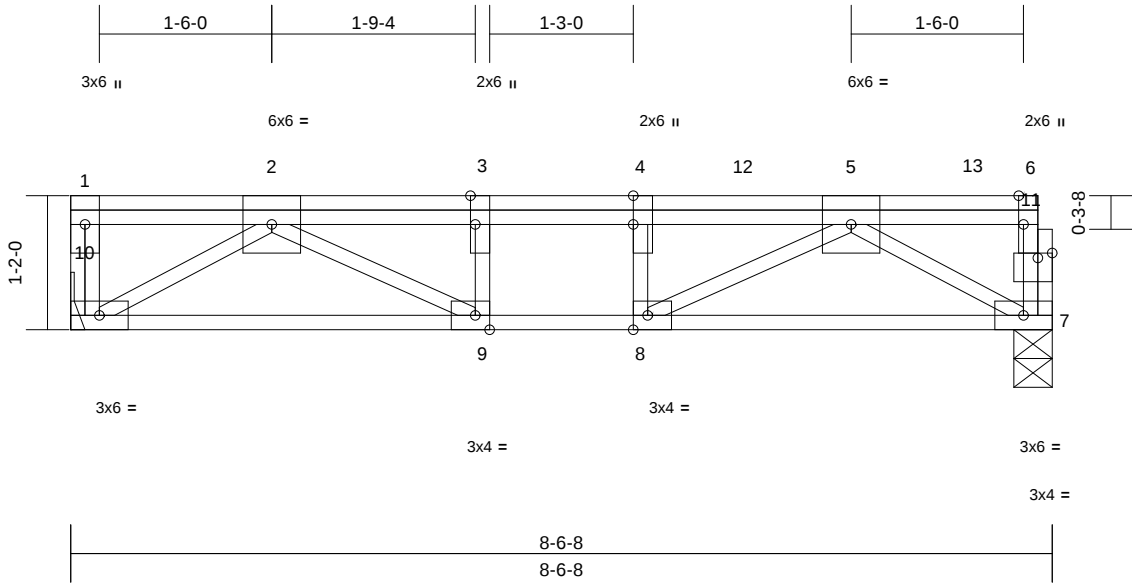
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-B	F12-GR	Floor Girder	1	1	Job Reference (optional)
					I76809464

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:10:14
ID:G0owC0wqFV_rBIDr8KAXEnyXMAA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:20

Plate Offsets (X, Y): [3:0-3-0,Edge], [4:0-3-0,Edge], [6:0-3-0,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	-0.04	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.06	9-10	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 56 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (size) 7=0-4-0, 10= Mechanical
Max Grav 7=873 (LC 4), 10=731 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-73/0, 6-7=-191/0, 1-2=0/0, 2-3=-1591/0, 3-4=-1591/0, 4-5=-1591/0, 5-6=-12/0
BOT CHORD 9-10=0/1079, 8-9=0/1591, 7-8=0/1115
WEBS 2-10=-1259/0, 5-7=-1288/0, 2-9=0/871, 5-8=0/835, 3-9=-372/0, 4-8=-341/0

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 10-00-00 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) 231 lb down and 107 lb up at 1-10-4, 231 lb down and 107 lb up at 3-10-4, and 231 lb down and 107 lb up at 5-10-4, and 236 lb down and 82 lb up at 7-10-4 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 (lb/ft)
Vert: 7-10=-10, 1-6=-100
Concentrated Loads (lb)
Vert: 2=-151 (F), 3=-151 (F), 12=-151 (F), 13=-176 (F)



October 3,2025

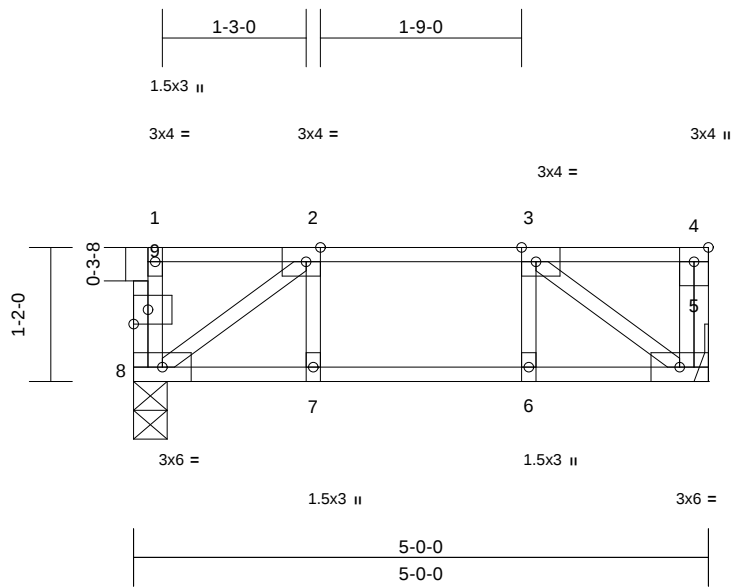
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-B	F13	Floor	1	1	Job Reference (optional)
					I76809465



Scale = 1:20

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8,0-1-8]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	-0.01	6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.08	Vert(CT)	-0.01	6	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 27 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 5-0-0 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS (size) 5= Mechanical, 8=0-3-8
- Max Grav 5=209 (LC 1), 8=204 (LC 1)
- FORCES (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-8=-45/6, 4-5=-47/4, 1-2=-3/0, 2-3=-222/0, 3-4=0/0
- BOT CHORD 7-8=0/222, 6-7=0/222, 5-6=0/222
- WEBS 3-5=-274/0, 2-8=-271/0, 2-7=-1/30, 3-6=-2/29

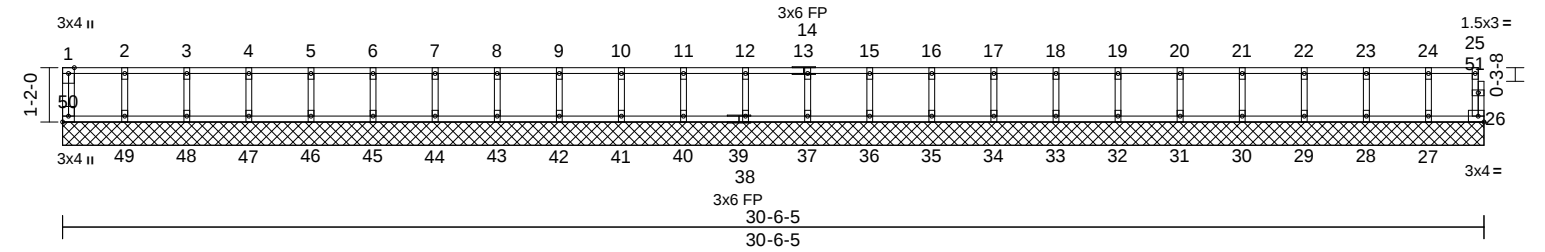
- NOTES
- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss 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.

LOAD CASE(S) Standard



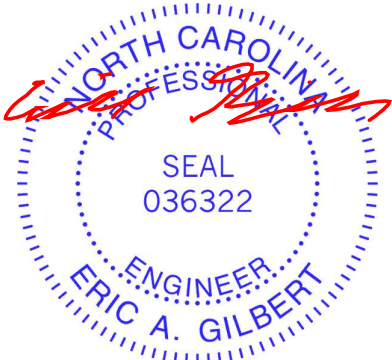
October 3,2025

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-B	FKW1	Floor Supported Gable	1	1	Job Reference (optional)
					I76809466



Scale = 1:49.5									
Plate Offsets (X, Y): [50:Edge,0-1-8]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	999
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	999
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	26	n/a
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R					
					PLATES		GRIP		
					MT20		244/190		
					Weight: 126 lb		FT = 20%F, 11%E		

LUMBER		TOP CHORD		1-50=-55/0, 25-26=-42/0, 1-2=-8/0, 2-3=-8/0, 3-4=-8/0, 4-5=-8/0, 5-6=-8/0, 6-7=-8/0, 7-8=-8/0, 8-9=-8/0, 9-10=-8/0, 10-11=-8/0, 11-12=-8/0, 12-14=-8/0, 14-15=-8/0, 15-16=-8/0, 16-17=-8/0, 17-18=-8/0, 18-19=-8/0, 19-20=-8/0, 20-21=-8/0, 21-22=-8/0, 22-23=-8/0, 23-24=-8/0, 24-25=-8/0
TOP CHORD	2x4 SP No.1(flat)	BOT CHORD		49-50=0/8, 48-49=0/8, 47-48=0/8, 46-47=0/8, 45-46=0/8, 44-45=0/8, 43-44=0/8, 42-43=0/8, 41-42=0/8, 40-41=0/8, 38-40=0/8, 37-38=0/8, 36-37=0/8, 35-36=0/8, 34-35=0/8, 33-34=0/8, 32-33=0/8, 31-32=0/8, 30-31=0/8, 29-30=0/8, 28-29=0/8, 27-28=0/8, 26-27=0/8
BOT CHORD	2x4 SP No.1(flat)	WEBS		2-49=-132/0, 3-48=-134/0, 4-47=-133/0, 5-46=-133/0, 6-45=-133/0, 7-44=-133/0, 8-43=-133/0, 9-42=-133/0, 10-41=-133/0, 11-40=-133/0, 12-38=-133/0, 14-37=-133/0, 15-36=-133/0, 16-35=-133/0, 17-34=-133/0, 18-33=-133/0, 19-32=-133/0, 20-31=-133/0, 21-30=-134/0, 22-29=-133/0, 23-28=-136/0, 24-27=-123/0
WEBS	2x4 SP No.3(flat)	NOTES		1) All plates are 1.5x3 (II) 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 10-00-00 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.
OTHERS	2x4 SP No.3(flat)	LOAD CASE(S)		Standard
BRACING		REACTIONS		(size) 26=30-6-5, 27=30-6-5, 28=30-6-5, 29=30-6-5, 30=30-6-5, 31=30-6-5, 32=30-6-5, 33=30-6-5, 34=30-6-5, 35=30-6-5, 36=30-6-5, 37=30-6-5, 38=30-6-5, 40=30-6-5, 41=30-6-5, 42=30-6-5, 43=30-6-5, 44=30-6-5, 45=30-6-5, 46=30-6-5, 47=30-6-5, 48=30-6-5, 49=30-6-5, 50=30-6-5
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	Max Grav		26=48 (LC 1), 27=135 (LC 1), 28=150 (LC 1), 29=146 (LC 1), 30=147 (LC 1), 31=147 (LC 1), 32=147 (LC 1), 33=147 (LC 1), 34=147 (LC 1), 35=147 (LC 1), 36=147 (LC 1), 37=147 (LC 1), 38=147 (LC 1), 40=147 (LC 1), 41=147 (LC 1), 42=147 (LC 1), 43=147 (LC 1), 44=147 (LC 1), 45=147 (LC 1), 46=147 (LC 1), 47=147 (LC 1), 48=147 (LC 1), 49=146 (LC 1), 50=60 (LC 1)
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	FORCES		(lb) - Maximum Compression/Maximum Tension



October 3,2025

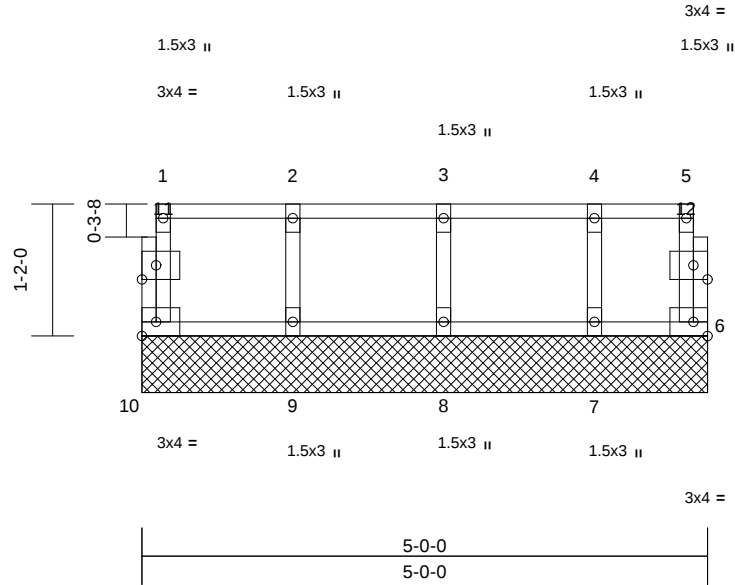
Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-B	FKW2	Floor Supported Gable	1	1	Job Reference (optional)

I76809467

Comtech, Inc, Fayetteville, NC - 28314,

Run: 25.30 S Sep 17 2025 Print: 25.3.0 S Sep 17 2025 MiTek Industries, Inc. Thu Oct 02 22:10:15
ID:IGFNa2_8UO1bLSKNikS?duyXLP-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDof7J4zJC?f

Page: 1



Scale = 1:20.4

Plate Offsets (X, Y): [11:0-1-8,0-1-8], [12:0-1-8,0-1-8]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 24 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 5-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

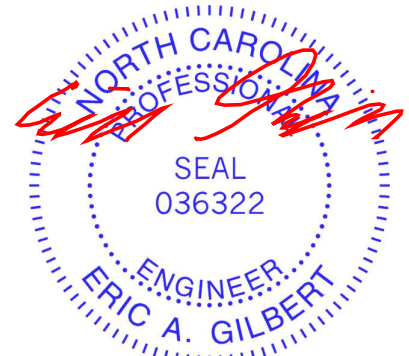
REACTIONS	(size)	6=5-0-0, 7=5-0-0, 8=5-0-0, 9=5-0-0, 10=5-0-0
Max Grav		6=30 (LC 1), 7=97 (LC 1), 8=122 (LC 1), 9=116 (LC 1), 10=43 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-10=-40/0, 5-6=-25/0, 1-2=-6/0, 2-3=-6/0, 3-4=-6/0, 4-5=-6/0
BOT CHORD	9-10=0/6, 8-9=0/6, 7-8=0/6, 6-7=0/6
WEBS	2-9=-104/0, 3-8=-111/0, 4-7=-90/0

NOTES

- Plates checked for a plus or minus 1 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



October 3, 2025

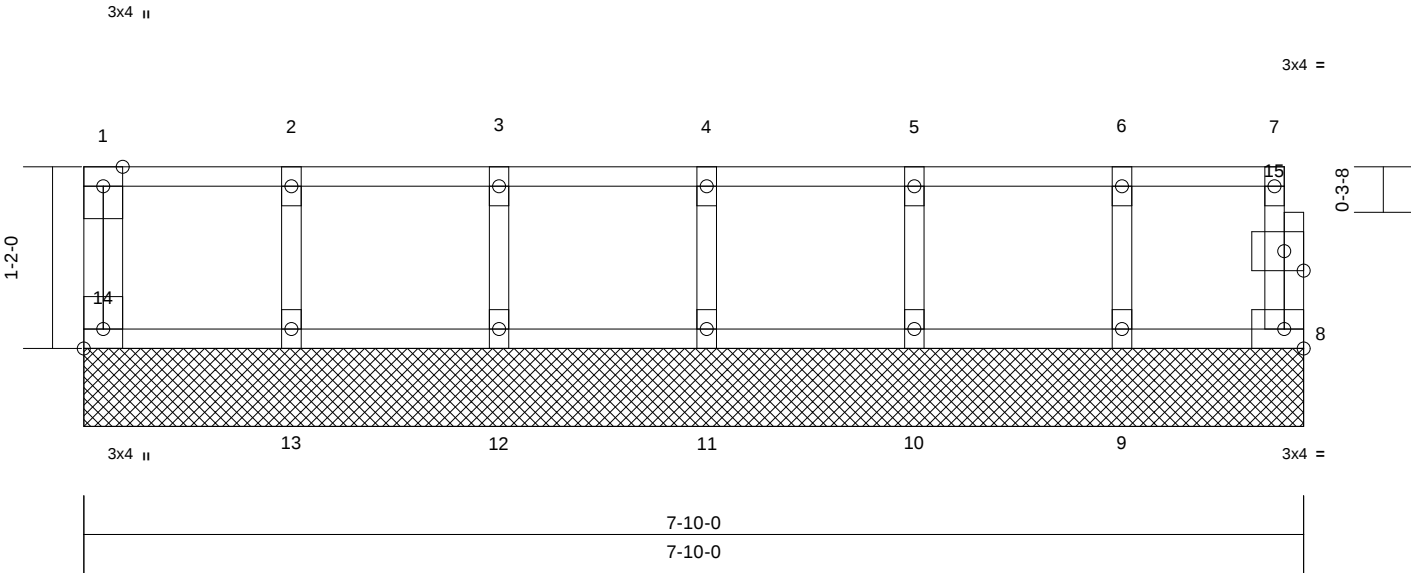
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 25 Duncan's Creek
250918-B	FKW3	Floor Supported Gable	1	1	Job Reference (optional)
					I76809468



Scale = 1:14.8

Plate Offsets (X, Y): [14:Edge,0-1-8], [15:0-1-8,0-1-8]

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(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 35 lb	FT = 20%F, 11%E

LUMBER LOAD CASE(S) Standard

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

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

- REACTIONS (size) 8=7-10-0, 9=7-10-0, 10=7-10-0, 11=7-10-0, 12=7-10-0, 13=7-10-0, 14=7-10-0
Max Grav 8=47 (LC 1), 9=131 (LC 1), 10=150 (LC 1), 11=146 (LC 1), 12=148 (LC 1), 13=145 (LC 1), 14=61 (LC 1)

- FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-56/0, 7-8=-42/0, 1-2=-9/0, 2-3=-9/0, 3-4=-9/0, 4-5=-9/0, 5-6=-9/0, 6-7=-9/0
BOT CHORD 13-14=0/9, 12-13=0/9, 11-12=0/9, 10-11=0/9, 9-10=0/9, 8-9=0/9
WEBS 2-13=-131/0, 3-12=-134/0, 4-11=-132/0, 5-10=-136/0, 6-9=-121/0

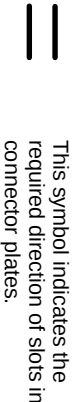
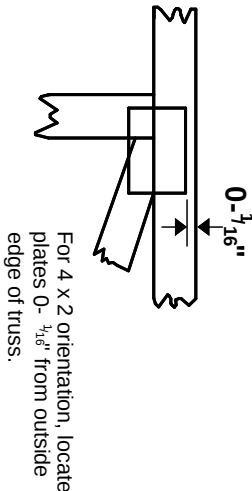
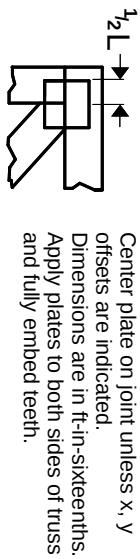
- NOTES
1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.



October 3,2025

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

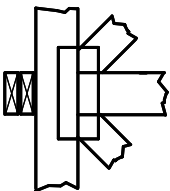
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

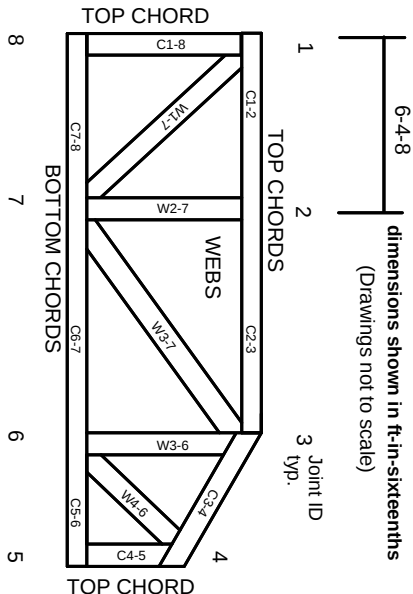
BEARING



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

ENGINEERING BY
TRENCO
A MITek Affiliate

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