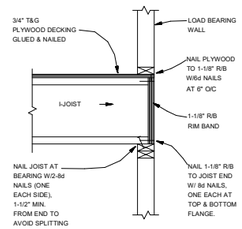
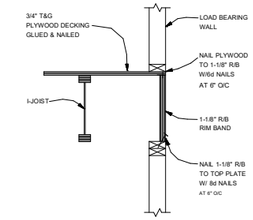
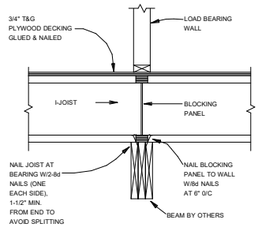
A1 1 1/8" RIMBOARD BAND



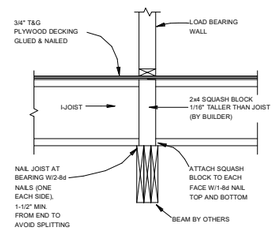
A7 1 1/8" RIMBOARD BAND



B3B BLOCKING AT JOIST ENDS

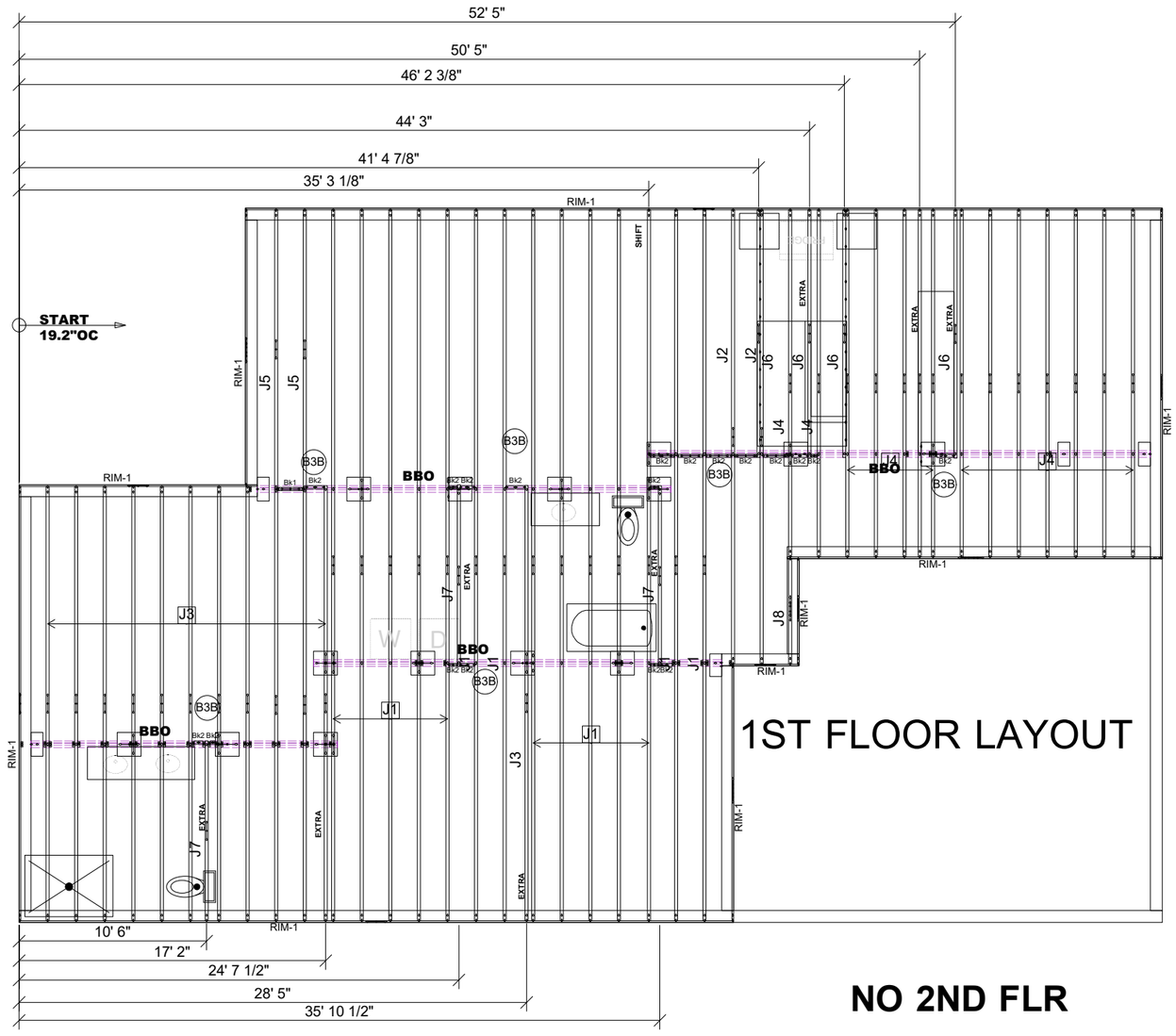


B2B SQUASH BLOCKS



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	40' 0"	11 7/8" TJI® 210	1	14	MFD
J2	26' 0"	11 7/8" TJI® 210	1	2	MFD
J3	25' 0"	11 7/8" TJI® 210	1	12	MFD
J4	20' 0"	11 7/8" TJI® 210	1	14	MFD
J5	16' 0"	11 7/8" TJI® 210	1	2	MFD
J6	14' 0"	11 7/8" TJI® 210	1	4	MFD
J7	11' 0"	11 7/8" TJI® 210	1	3	MFD
J8	6' 0"	11 7/8" TJI® 210	1	1	MFD
RIM-1	16' 0"	1 1/8" x 11 7/8" TJ® Rim Board	1	14	FF
Bk1	2' 0"	11 7/8" TJI® 210	1	1	FF
Bk2	2' 0"	11 7/8" TJI® 210	1	19	MFD

● Avoid Plumbing Drops



1ST FLOOR LAYOUT

NO 2ND FLR

FIELD LOCATE PLUMBING DROPS/CAN LIGHTS, ETC... PRIOR TO JOIST SECUREMENT TO AVOID INTERFERENCE.

LAYOUT FOR 19.2" O/C

1= 19-3/16"	9= 172-13/16"
2= 38-3/8"	10= 192"
3=57-5/8"	11= 211-3/16"
4= 76-13/16"	12= 230-3/8"
5= 96"	13= 249-13/16"
6= 115-3/16"	14= 268-13/16"
7= 134-3/8"	15= 288"
8= 153-5/8"	

GENERAL NOTES:

1.) TOP CHORD OF JOISTS ARE PAINTED RED AT NUMBERED END. PLACE PAINTED END AS NOTED ON PLAN.
2.) FOLLOW SPECIAL SPACING AND LOCATION DIMENSIONS FOR EXTRAS OR SHIFTED JOISTS AS SHOWN ON PLAN.
3.) ALL INTERIOR WALL PLATES MUST BE LEVEL WITH OUTSIDE WALL TOP PLATES.
4.) DO NOT STACK CONSTRUCTION LOADS ON UN-BRACED JOISTS.
5.) PROVIDE SOLID SUPPORT BELOW ALL BEAM AND HEADER BEARING POINTS IN WALL AND JOIST SPACES CONTINUOUS DOWN TO THE FOUNDATION.
6.) LOCATE CRIPPLE STUDS IN JOIST SPACE DIRECTLY BELOW HEADER JACKS AT ALL FIRST FLOOR EXTERIOR DOOR LOCATIONS.
7.) INSTALL NAILS IN ALL HOLES PROVIDED IN JOIST HANGERS EXCEPT AT BOTTOM CHORD SEAT. PLACE A DAB OF GLUE IN THE HANGER SEAT BEFORE SETTING JOISTS.
8.) IMPORTANT NOTE! NO STRUCTURAL ANALYSIS OF CONVENTIONAL HEADERS HAS BEEN CONDUCTED IF NOT NOTED. THEY ARE CONSIDERED TO BE ADEQUATE TO SUPPORT THE APPLIED LOADS.

PLAN LEGEND

1B-, 2B- *INDICATES BEAM ABOVE TOP PLATE (FLUSH WITH FLOOR SYSTEM)

H-, 1H-, GDH- INDICATES BEAM BELOW TOP PLATE (DROPPED BELOW FLOOR SYSTEM)

***BEAMS MAY PROTRUDE ABOVE OR BELOW DECKING OR TOP PLATE RESPECTIVELY, REFER TO DETAIL IF BEAM IS A DIFFERENT DEPTH THAN FLOOR SYSTEM**

SINGLE PLY BEAM (ADD LINE FOR EACH ADDITIONAL PLY)

SHIFT SHIFT JOIST TO MISS PLUMBING, ALIGN W/WALL OR SUPPORT FURNITURE

EXTRA A JOIST ADDED TO THE LAYOUT IN ADDITION TO THE ON CENTER JOISTS

DOUBLE TWO JOISTS SIDE BY SIDE (ONLY ASSEMBLED IF NOTED)

ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED

FRAMER NOTE

1. GLUE AND NAIL PLYWOOD SUBFLOOR TO BEAMS AND GIRDERS AT 6" O/C WHERE NO WALL IS ABOVE.
2. FILL HANGER SEAT WITH GLUE BEFORE SETTING JOIST IN HANGER. FILL ROUND HOLES WITH NAILS.

CRITICAL !!

INSTALL 2X4 SQUASH BLOCKS IN FLOOR TRUSS SPACE BELOW ALL EXTERIOR DOOR HEADER JACKS. CUT 1/16" TALLER THAN TRUSS.

FIELD VERIFY DIMENSIONS TO JOISTS LOCATED UNDER WALLS!!

FLOOR PLACEMENT PLAN

SCALE: 1/8"=1'

UFP SITE BUILT
A UFP INDUSTRIES COMPANY
Burlington, NC Locust, NC
Chesapeake, VA Liberty, NC
Clinton, NC Ooltewah, TN
Conway, SC Pearisburg, VA
Jefferson, GA Stanfield, NC
Customer Service (800) 476-9356
TRUSSTRAX HIGH SPEED SOLUTIONS

PBS NEW HOMES -

CLAYTON

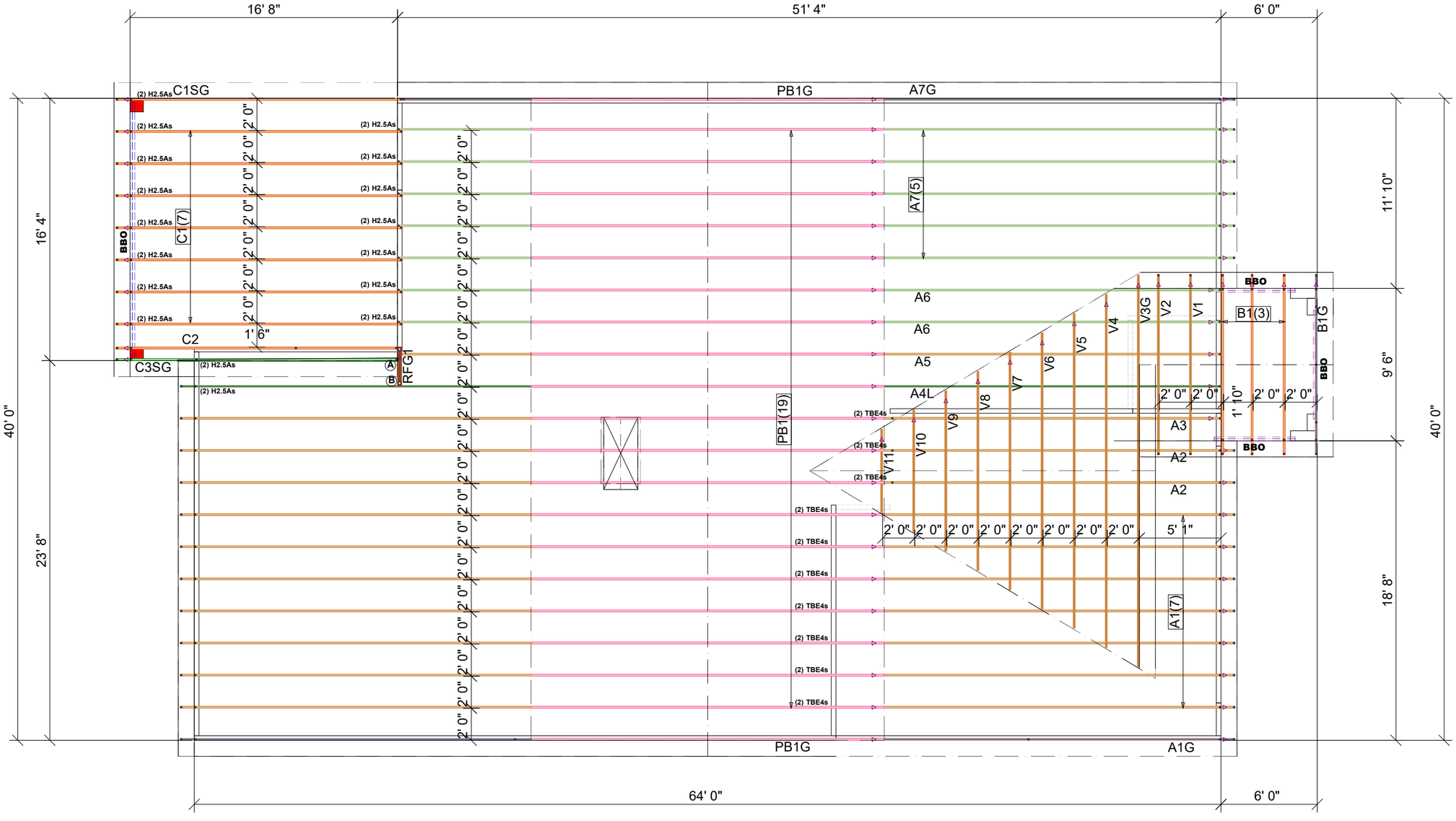
793 BEACON HILL ROAD
LILLINGTON, NC, 27546

REVISIONS		
DATE	DESCRIPTION	DSN
.	.	.

DESIGNER DV
LAYOUT DATE 04/03/2025
ARCH DATE -
STRUC DATE -

JOB #: 25040178F1

THIS IS A TRUSS PLACEMENT DIAGRAM (TPD) ONLY; NOT AN ENGINEERED DOCUMENT. Trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual truss design drawings (TDD's), for each truss design identified on the TPD. The Contractor is responsible for the temporary bracing of the roof and floor system, and the building designer is responsible for the permanent bracing of the roof and floor system and the overall structure. The design of the support structure including but not limited to headers, beams, walls, and columns is also the responsibility of the building designer. For general guidance regarding installation and bracing, consult "Building Component Safety Information" (BCSI) available from the SBC Association (www.sbcacomponents.com). It is the responsibility of the General Contractor to verify that the provided component layout matches the final intended construction plans, loading conditions, and use. If they do not, it is the responsibility of the General Contractor to notify UFP and provide plans containing the latest specifications and designs. UFP will not be responsible for plan changes by others after final approval of shop drawings, or for errors or modifications made on-site during construction. DO NOT CUT, NOTCH, DRILL, OR OTHERWISE "REPAIR" MANUFACTURED TRUSSES IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED PROFESSIONAL DESIGNATED BY UFP. The Framer is responsible to verify all dimensions, including adjusting member spacing within tolerances to allow for the drop and rise of plumbing/HVAC, unless noted otherwise. Truss-to-wall connections, if shown, are for uplift only and do not consider lateral loads. All connectors on this project are to be installed per the connector manufacturer's specifications. All connectors shown that are not truss-to-truss are suggestions only and are to be verified by the Building Designer or Engineer of Record for suitability to this particular project. UFP accepts no responsibility for the specific application or suitability of any connector that is not truss-to-truss as they apply to this specific structure.



25-1/2" X 54-1/2" P.D.S.
TURNED PERPENDICULAR TO THE TRUSSES.

(ADD 2X STRINGER TO THE INSIDE OF THE TRUSS VERTICAL ON EACH SIDE AT OPENING TO NAIL P.D.S. TO)

ROOF HANGER LIST			
Ⓐ	HUS26	FACE MOUNT HANGER	1
Ⓑ	HHUS26-2	FACE MOUNT HANGER	1

UNLESS NOTED OTHERWISE USE SINGLE H2.5A TIEDOWN.

PLACEMENT PLAN

△ **INDICATES LEFT END OF TRUSS** **SCALE:** N.T.S

UFP SITE BUILT
A UFP INDUSTRIES COMPANY
Burlington, NC Locust, NC
Chesapeake, VA Liberty, NC
Clinton, NC Ooltewah, TN
Conway, SC Pearisburg, VA
Jefferson, GA Stanfield, NC
Customer Service (800) 476-9356

TRUSSTRAX UFP CONSTRUCTION
TrussTrax.ufpi.com

NEW HOMES INC.

LOT 43 DUNCAN'S CREEK

CLAYTON PLAN
'FRENCH COUNTRY'
ROOF

793 BEACON HILL ROAD
LILLINGTON, NC 27546

REVISIONS	DATE	DESCRIPTION	DSN
	-	-	-

DESIGNER AM
LAYOUT DATE 4-9-25
ARCH DATE -
STRUC DATE -

JOB #: 25040178

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	A1	Truss	7	1	Job Reference (optional)

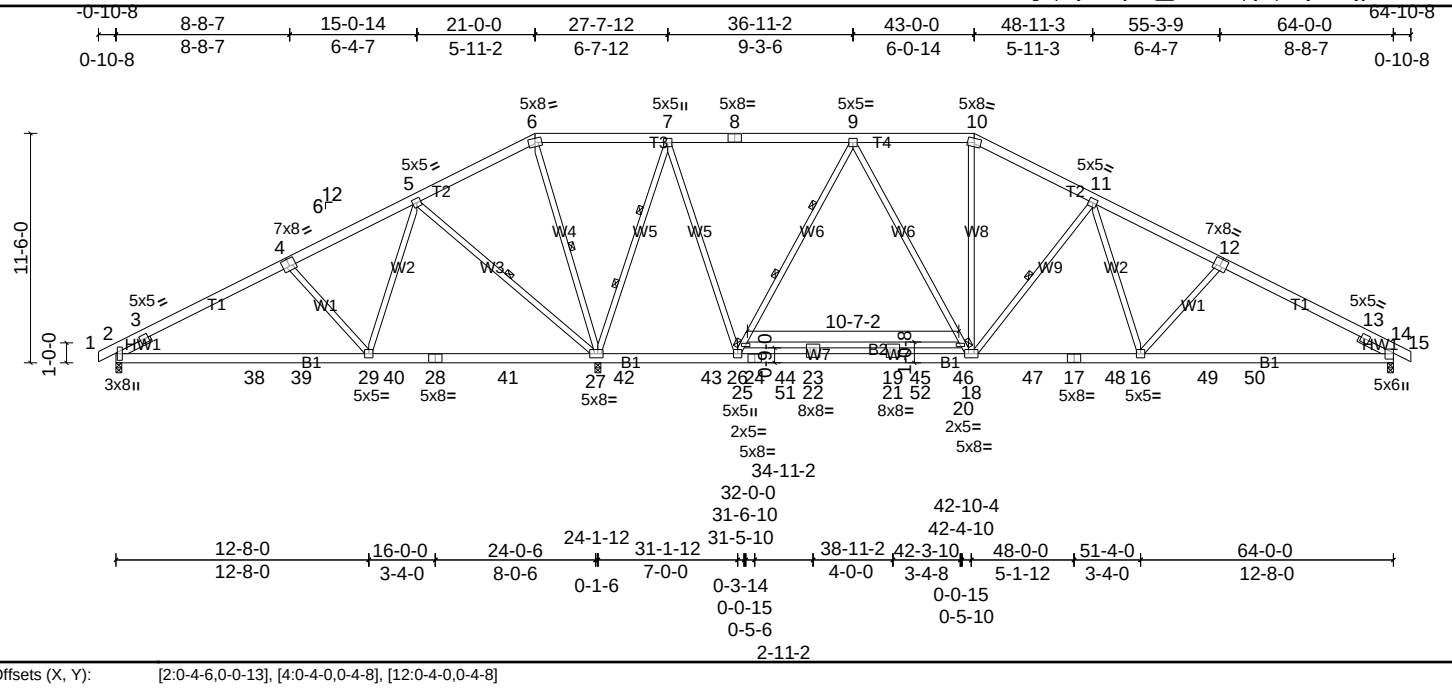


Plate Offsets (X, Y): [2:0-4-6,0-0-13], [4:0-4-0,0-4-8], [12:0-4-0,0-4-8]

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	0.58	Vert(LL)	-0.34	21-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.58	21-22	>828	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.04	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 513 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.1 *Except* B2:2x4 SP No.2
WEBS	2x4 SP No.3 *Except* W5:2x4 SP No.1, W6:2x4 SP No.2
SLIDER	Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0

REACTIONS (lb/size) 2=631/0-3-8, (min. 0-1-8), 14=1493/0-3-8, (min. 0-1-13), 27=3322/0-3-8, (req. 0-4-5)
Max Horiz 2=191 (LC 10)
Max Uplift 2=-165 (LC 10), 14=-208 (LC 11), 27=-150 (LC 7)
Max Grav 2=707 (LC 21), 14=1558 (LC 24), 27=3680 (LC 2)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-2-2 oc purlins, except 2-0-0 oc purlins (5-11-6 max.): 6-10.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 27-29,26-27.
WEBS	1 Row at midpt 5-27, 6-27, 11-18
WEBS	2 Rows at 1/3 pts 7-27, 9-25

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

TOP CHORD	2-3=-704/0, 3-4=-667/248, 4-5=-440/211, 5-6=0/896, 6-7=0/921, 7-8=-448/210, 8-9=-448/210, 9-10=-1404/399, 10-11=-1641/396, 11-12=-2239/503, 12-13=-2470/535, 13-14=-1131/0
BOT CHORD	2-38=-307/596, 38-39=-277/596, 29-39=-277/596, 29-40=-246/255, 28-40=-246/255, 28-41=-246/255, 27-41=-246/255, 27-42=-220/324, 42-43=-220/324, 26-43=-220/324, 24-26=0/943, 24-44=0/943, 23-44=0/943, 19-23=0/943, 19-45=0/943, 45-46=0/943, 18-46=0/943, 18-47=-106/1801, 17-47=-106/1801, 17-48=-106/1801, 16-48=-106/1801, 16-49=-320/2130, 49-50=-320/2130, 14-50=-320/2130
WEBS	5-27=-892/336, 6-27=-672/149, 10-18=-19/457, 11-18=-707/343, 7-27=-2327/379, 25-26=-1305/302, 9-25=-1290/342, 9-20=-66/852, 18-20=-108/838, 11-16=-112/500, 12-16=-367/282, 5-29=-92/784, 4-29=-460/304, 7-26=-109/1856

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) WARNING: Required bearing size at joint(s) 27 greater than input bearing size.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 2, 150 lb uplift at joint 27 and 208 lb uplift at joint 14.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/ TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	A1G	Truss	1	1	Job Reference (optional)

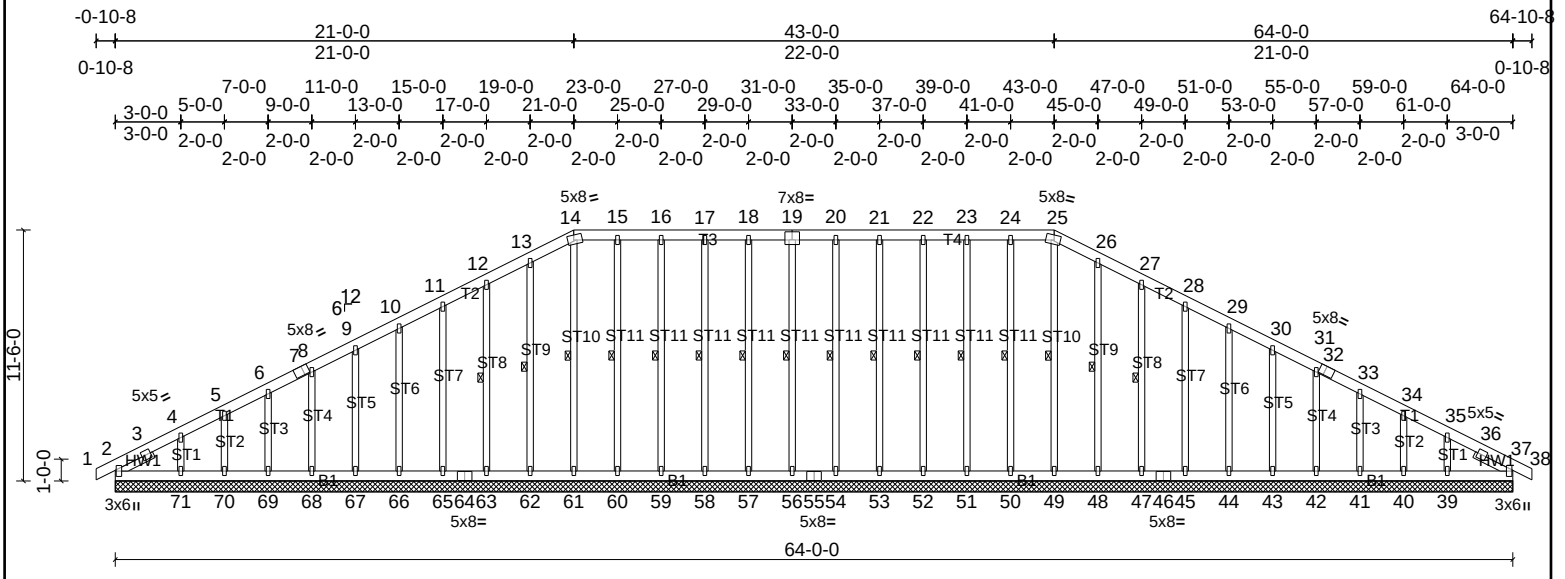


Plate Offsets (X, Y): [2:0-3-6,0-0-8], [7:0-3-2,Edge], [14:0-4-0,Edge], [19:0-4-0,0-4-8], [25:0-4-0,Edge], [32:0-3-2,Edge], [37:0-3-6,0-0-8]

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	37	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 661 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 14-25.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 19-56, 20-54, 18-57, 17-58, 16-59, 15-60, 14-61, 13-62, 12-63, 21-53, 22-52, 23-51, 24-50, 25-49, 26-48, 27-47

REACTIONS All bearings 64-0-0.

(lb) - Max Horiz 2=191 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 40, 41, 42, 43, 44, 45, 47, 48, 50, 51, 52, 53, 54, 56, 57, 58, 59, 60, 62, 63, 65, 66, 67, 68, 69, 70 except 39=-127 (LC 11), 71=-149 (LC 10)

Max Grav All reactions 250 (lb) or less at joint(s) 2, 37, 39, 40, 41, 42, 43, 44, 45, 47, 48, 49, 50, 51, 52, 53, 54, 56, 57, 58, 59, 60, 61, 62, 63, 65, 66, 67, 68, 69, 70, 71

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

TOP CHORD 12-13=-113/290, 13-14=-128/333, 14-15=-116/321, 15-16=-115/321, 16-17=-115/321, 17-18=-115/321, 18-19=-115/321, 19-20=-115/321, 20-21=-115/321, 21-22=-115/321, 22-23=-115/321, 23-24=-115/321, 24-25=-116/321, 25-26=-128/333, 26-27=-113/290

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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.
4) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x5 (||) MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 56, 54, 57, 58, 59, 60, 62, 63, 65, 66, 67, 68, 69, 70, 53, 52, 51, 50, 48, 47, 45, 44, 43, 42, 41, 40, 2 except (jt=lb) 71=149, 39=126.
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	A2	Truss	2	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton — Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 16 07:57:48 — Page: 1

ID:9xRVRuYs4WV7mRvAj_Ha5SyRY_r-ct5MSM14HHUA6i8uylvTmz6pb4pcfnXrJAmTjezQDL1

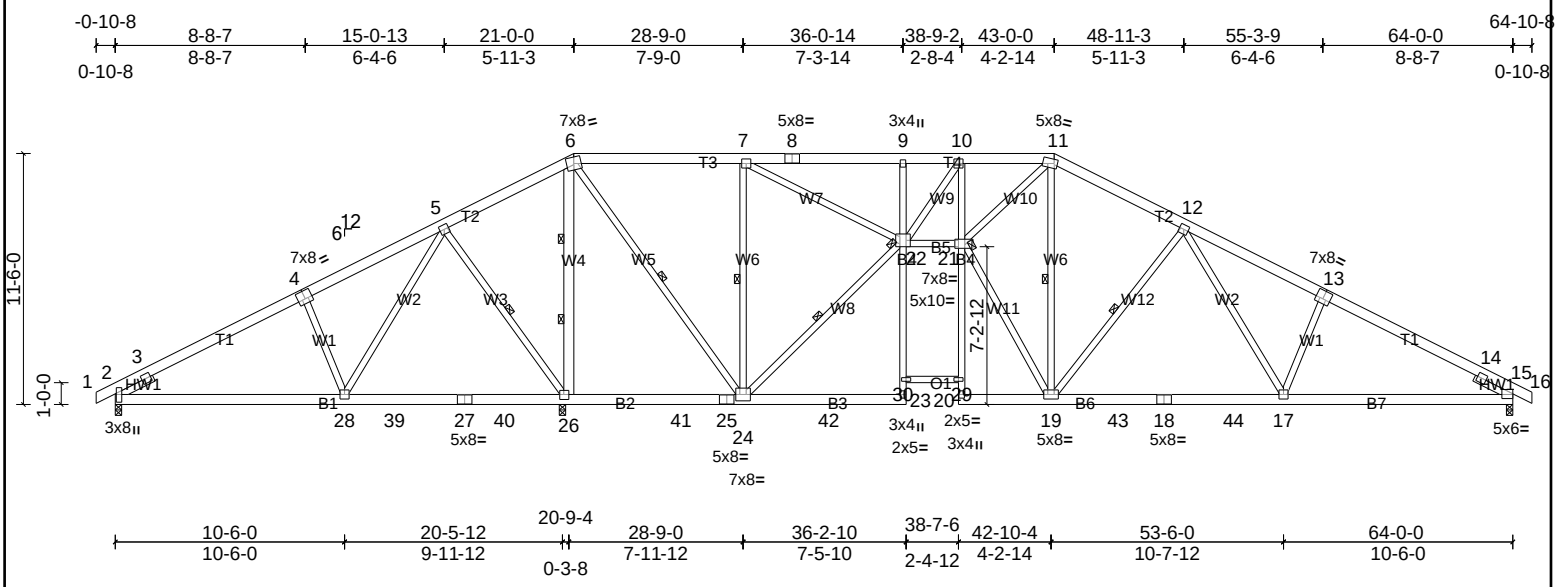


Plate Offsets (X, Y): [2:0-4-10,0-0-9], [4:0-4-0,0-4-8], [11:0-1-12,0-2-4], [13:0-4-0,0-4-8], [15:Edge,0-2-10], [21:0-4-8,0-2-0], [22:0-2-4,Edge], [26:0-2-4,0-2-12]

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	0.77	Vert(LL)	-0.24	17-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.44	17-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.20	15	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 551 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* B4,B5:2x4 SP No.2
WEBS	2x4 SP No.3 *Except* W4:2x6 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0

REACTIONS (lb/size) 2=-91/0-3-8, (min. 0-1-8), 15=1313/0-3-8, (min. 0-1-9), 26=4003/0-3-8, (req. 0-4-13)
Max Horiz 2=191 (LC 10)
Max Uplift 2=-521 (LC 23), 15=-286 (LC 11), 26=-286 (LC 7)
Max Grav 2=138 (LC 8), 15=1324 (LC 23), 26=4065 (LC 2)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-7-7 oc purlins, except 2-0-0 oc purlins (5-6-6 max.): 6-11.
BOT CHORD	Rigid ceiling directly applied or 5-3-2 oc bracing. Except: 6-0-0 oc bracing: 20-21 10-0-0 oc bracing: 22-23
WEBS	1 Row at midpt 5-26, 6-24, 7-24, 22-24, 11-19, 12-19
WEBS	2 Rows at 1/3 pts 6-26
JOINTS	1 Brace at Jt(s): 22, 21

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

TOP CHORD	2-3=-223/424, 3-4=-201/1416, 4-5=-160/1452, 5-6=-49/2128, 6-7=0/551, 7-8=-1135/432, 8-9=-1135/432, 9-10=-1141/429, 10-11=-1683/520, 11-12=-1022/550, 12-13=-1829/705, 13-14=-1991/646, 14-15=-784/47
BOT CHORD	2-28=-1199/334, 28-39=-1572/282, 27-39=-1572/282, 27-40=-1572/282, 26-40=-1572/282, 26-41=-1762/454, 25-41=-1762/454, 24-25=-1762/454, 9-22=-346/162, 21-22=-30/1683, 10-21=-63/677, 19-43=-244/1261, 18-43=-244/1261, 18-44=-244/1261, 17-44=-244/1261, 15-17=-421/1690
WEBS	4-28=-511/309, 5-28=-203/870, 5-26=-772/354, 6-24=-468/2296, 7-24=-1322/303, 22-24=-632/257, 7-22=-132/1748, 19-21=-76/1643, 11-21=-84/1169, 11-19=-671/75, 12-19=-715/343, 12-17=-151/638, 13-17=-354/280, 6-26=-3193/591, 10-22=-964/158

NOTES (13)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 5x5 (=) MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) WARNING: Required bearing size at joint(s) 26 greater than input bearing size.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 521 lb uplift at joint 2, 286 lb uplift at joint 26 and 286 lb uplift at joint 15.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.
13) Web O1 to be removed in field.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	A3	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton — Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 16 07:57:48 — Page: 1

ID:eIDICkCopcmhiUtVEGEi8LyRXyi-ct5MSM14HHUA6i8uylvTmz6rz4qXfnXrJAmTjezQDL1

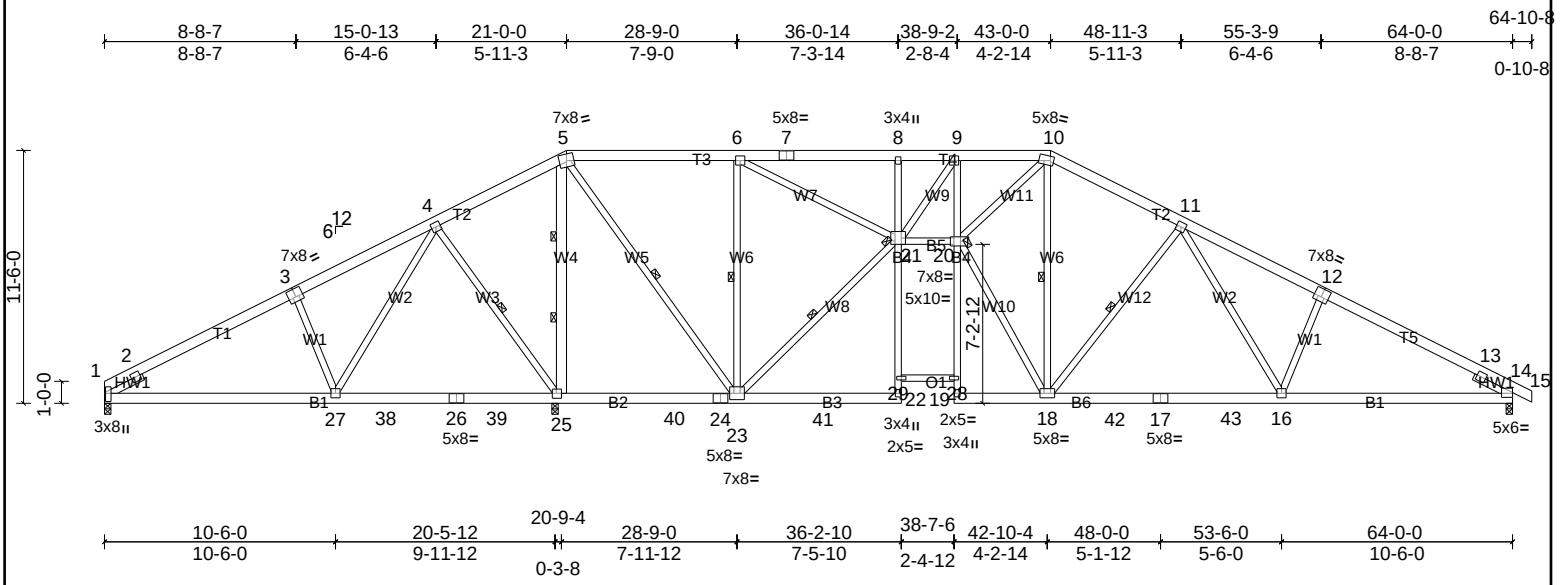


Plate Offsets (X, Y): [1:0-4-14,0-0-9], [3:0-4-0,0-4-8], [10:0-1-12,0-2-4], [12:0-4-0,0-4-8], [14:Edge,0-2-10], [20:0-4-8,0-2-0], [21:0-2-4,Edge], [25:0-2-4,0-2-12]

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	0.69	Vert(LL)	-0.24	16-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.44	16-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.20	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 549 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* B4,B5:2x4 SP No.2
WEBS	2x4 SP No.3 *Except* W4:2x6 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0

REACTIONS (lb/size) 1=-144/0-3-8, (min. 0-1-8), 14=1314/0-3-8, (min. 0-1-9), 25=4003/0-3-8, (req. 0-4-13)
Max Horiz 1=-199 (LC 11)
Max Uplift 1=-538 (LC 23), 14=-286 (LC 11), 25=-286 (LC 7)
Max Grav 1=147 (LC 6), 14=1324 (LC 23), 25=4065 (LC 2)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-7-7 oc purlins, except 2-0-0 oc purlins (5-6-6 max.): 5-10.
BOT CHORD	Rigid ceiling directly applied or 5-3-3 oc bracing. Except: 6-0-0 oc bracing: 19-20 10-0-0 oc bracing: 21-22
WEBS	1 Row at midpt 6-23, 21-23, 10-18, 11-18, 5-23, 4-25
WEBS	2 Rows at 1/3 pts 5-25
JOINTS	1 Brace at Jt(s): 21, 20

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

TOP CHORD	1-2=-217/422, 2-3=-166/1414, 3-4=-160/1450, 4-5=-47/2126, 5-6=0/550, 6-7=-1136/434, 7-8=-1136/434, 8-9=-1143/431, 9-10=-1684/522, 10-11=-1022/551, 11-12=-1829/706, 12-13=-1991/647, 13-14=-784/47
BOT CHORD	1-27=-1198/333, 27-38=-1571/282, 26-38=-1571/282, 26-39=-1571/282, 25-39=-1571/282, 25-40=-1760/453, 24-40=-1760/453, 23-24=-1760/453, 8-21=-346/162, 20-21=-31/1684, 9-20=-63/676, 18-42=-244/1261, 17-42=-244/1261, 17-43=-244/1261, 16-43=-244/1261, 14-16=-422/1690
WEBS	3-27=-513/311, 4-27=-206/873, 6-23=-1322/304, 21-23=-630/256, 6-21=-133/1749, 18-20=-77/1644, 10-20=-84/1170, 10-18=-671/75, 11-18=-715/343, 11-16=-151/638, 12-16=-354/280, 5-23=-468/2296, 4-25=-773/355, 9-21=-964/157, 5-25=-3192/591

NOTES (13)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 5x5 (=) MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) WARNING: Required bearing size at joint(s) 25 greater than input bearing size.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 538 lb uplift at joint 1, 286 lb uplift at joint 14 and 286 lb uplift at joint 25.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.
13) Web O1 to be removed in field.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	A4L	Truss	1	1	Job Reference (optional)

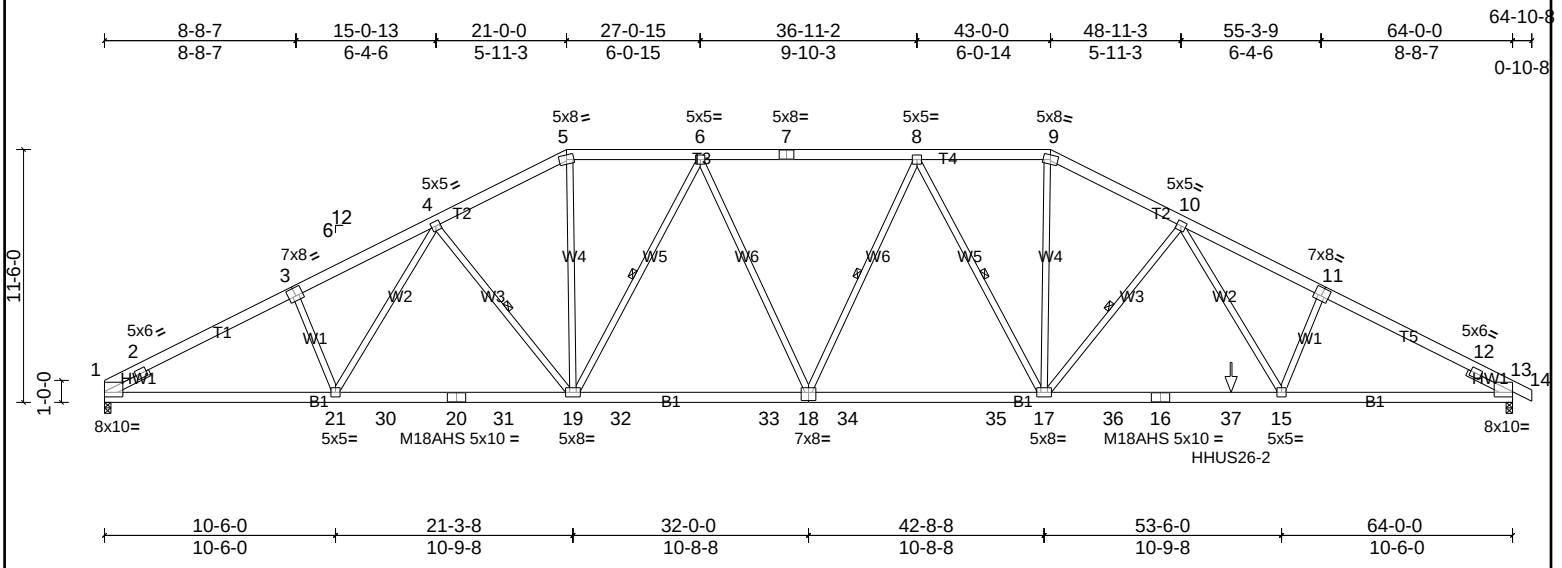


Plate Offsets (X, Y): [1:Edge,0-2-8], [3:0-4-0,0-4-8], [10:0-0-0,0-0-0], [11:0-4-0,0-4-8], [13:Edge,0-2-14], [18:0-4-0,0-4-8]

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	0.83	Vert(LL)	-0.40	15-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.75	15-17	>999	180	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.23	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 492 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2 *Except* T1,T5:2x6 SP SS
BOT CHORD	2x6 SP SS
WEBS	2x4 SP No.3 *Except* W6,W5:2x4 SP No.2
SLIDER	Left 2x4 SP No.3 -- 2-3-0, Right 2x4 SP No.3 -- 2-3-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-7-0 oc purlins, except 2-0-0 oc purlins (3-0-2 max.): 5-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 10-17, 4-19, 8-17, 8-18, 6-19

REACTIONS (lb/size) 1=2603/0-3-8, (min. 0-3-2), 13=2786/0-3-8, (min. 0-3-5)
Max Horiz 1=-199 (LC 13)
Max Uplift 1=-273 (LC 8), 13=-344 (LC 9)
Max Grav 1=2640 (LC 2), 13=2796 (LC 2)

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

TOP CHORD	1-2=-1956/52, 2-3=-4779/478, 3-4=-4622/534, 4-5=-4083/438, 5-6=-3618/414, 6-7=-4074/445, 7-8=-4074/445, 8-9=-3696/450, 9-10=-4170/478, 10-11=-4862/645, 11-12=-5022/590, 12-13=-1876/60
BOT CHORD	1-21=-489/4152, 21-30=-337/3926, 20-30=-337/3926, 20-31=-337/3926, 19-31=-337/3926, 19-32=-354/3970, 32-33=-354/3970, 18-33=-354/3970, 18-34=-321/4005, 34-35=-321/4005, 17-35=-321/4005, 17-36=-266/4064, 16-36=-266/4064, 16-37=-266/4064, 15-37=-266/4064, 13-15=-394/4361
WEBS	3-21=-234/251, 4-21=-129/413, 10-17=-751/346, 4-19=-634/302, 6-18=-31/370, 11-15=-205/257, 8-17=-807/292, 10-15=-199/578, 8-18=-102/282, 6-19=-912/297, 9-17=-117/1607, 5-19=-98/1566

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 273 lb uplift at joint 1 and 344 lb uplift at joint 13.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 51-2-8 from the left end to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-60, 5-9=-60, 9-14=-60, 22-26=-20
Concentrated Loads (lb)
Vert: 37=-216

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	A5	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton — Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 16 07:57:50 — Page: 1

ID:7rQpF8ElY1bU0iS1HKnseUyRXxM-YGC6t13LpukuL0IH4AxxsOC8HuQd7ht7nUFaoXzQDL?

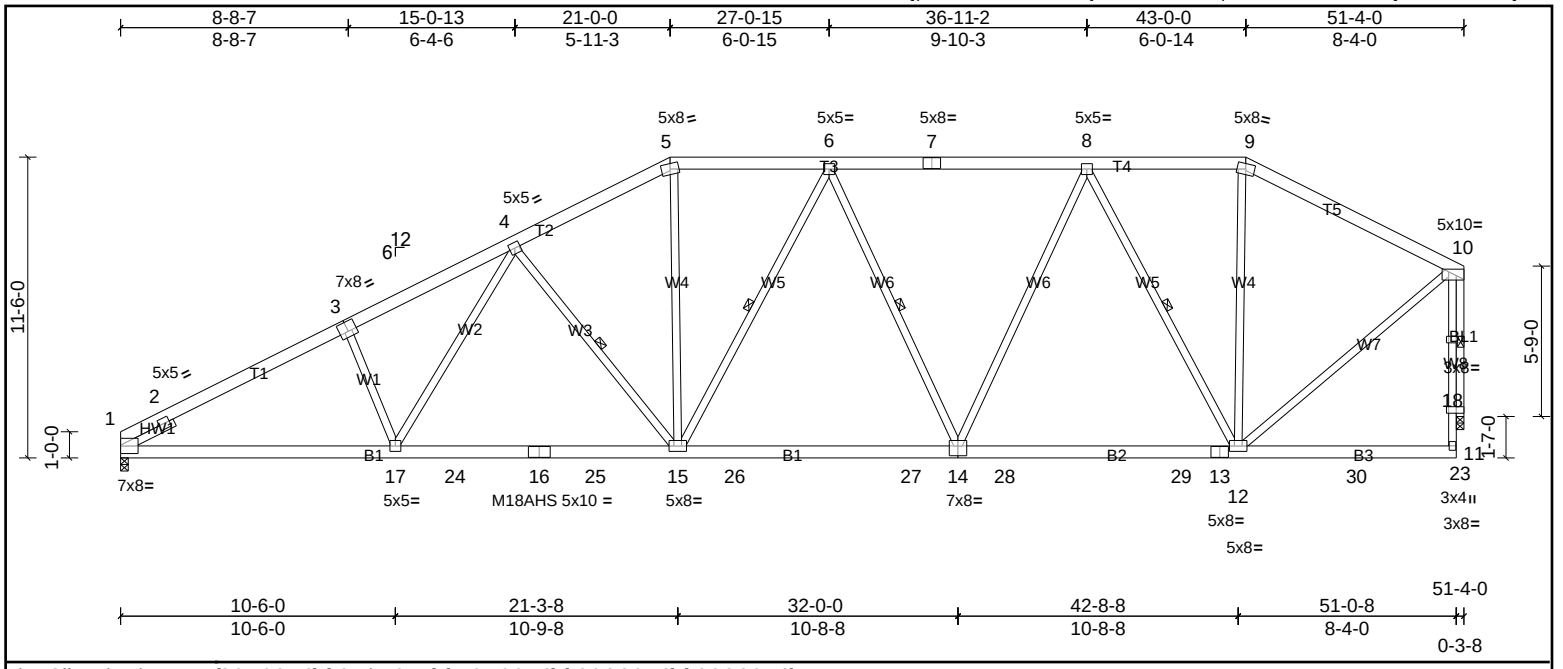


Plate Offsets (X, Y): [3:0-4-0,0-4-8], [10:Edge,0-1-4], [14:0-4-0,0-4-8], [18:0-3-8,0-1-8], [18:0-3-8,0-1-8]

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	0.89	Vert(LL)	-0.28	15-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.50	15-17	>999	180	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.14	23	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 421 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* W5,W6:2x4 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 -- 2-3-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-2 max.): 5-9.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 4-15, 6-15, 6-14, 8-12, 10-23

REACTIONS (lb/size) 1=2047/0-3-8, (min. 0-2-7), 23=2024/0-3-8, (min. 0-1-8)
Max Horiz 1=307 (LC 10)
Max Uplift 1=-233 (LC 10), 23=-175 (LC 6)
Max Grav 1=2060 (LC 2), 23=2178 (LC 2)

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

TOP CHORD	1-2=-1364/142, 2-3=-3628/859, 3-4=-3476/918, 4-5=-2842/771, 5-6=-2495/739, 6-7=-2401/672, 7-8=-2401/672, 8-9=-1436/466, 9-10=-1681/442
BOT CHORD	1-17=-889/3140, 17-24=-723/2843, 16-24=-723/2843, 16-25=-723/2843, 15-25=-723/2843, 15-26=-545/2550, 26-27=-545/2550, 14-27=-545/2550, 14-28=-416/2060, 28-29=-416/2060, 13-29=-416/2060, 12-13=-416/2060
WEBS	3-17=-275/268, 4-17=-136/497, 4-15=-666/341, 6-15=-338/229, 6-14=-476/230, 8-14=-88/857, 8-12=-1383/366, 10-12=-336/1731, 5-15=-192/1010, 9-12=-24/482, 10-23=-2181/498

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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) 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 20.0psf 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.
7) Bearing at joint(s) 23 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 233 lb uplift at joint 1 and 175 lb uplift at joint 23.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	A6	Truss	2	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton — Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 16 07:57:51 — Page: 1

ID:cOcJIYHhISRHKw1YJOK17dyRXw0-YGC6t13LpukuL0IH4AxxsOC6suQK7ht7nUFaoXzQDL?

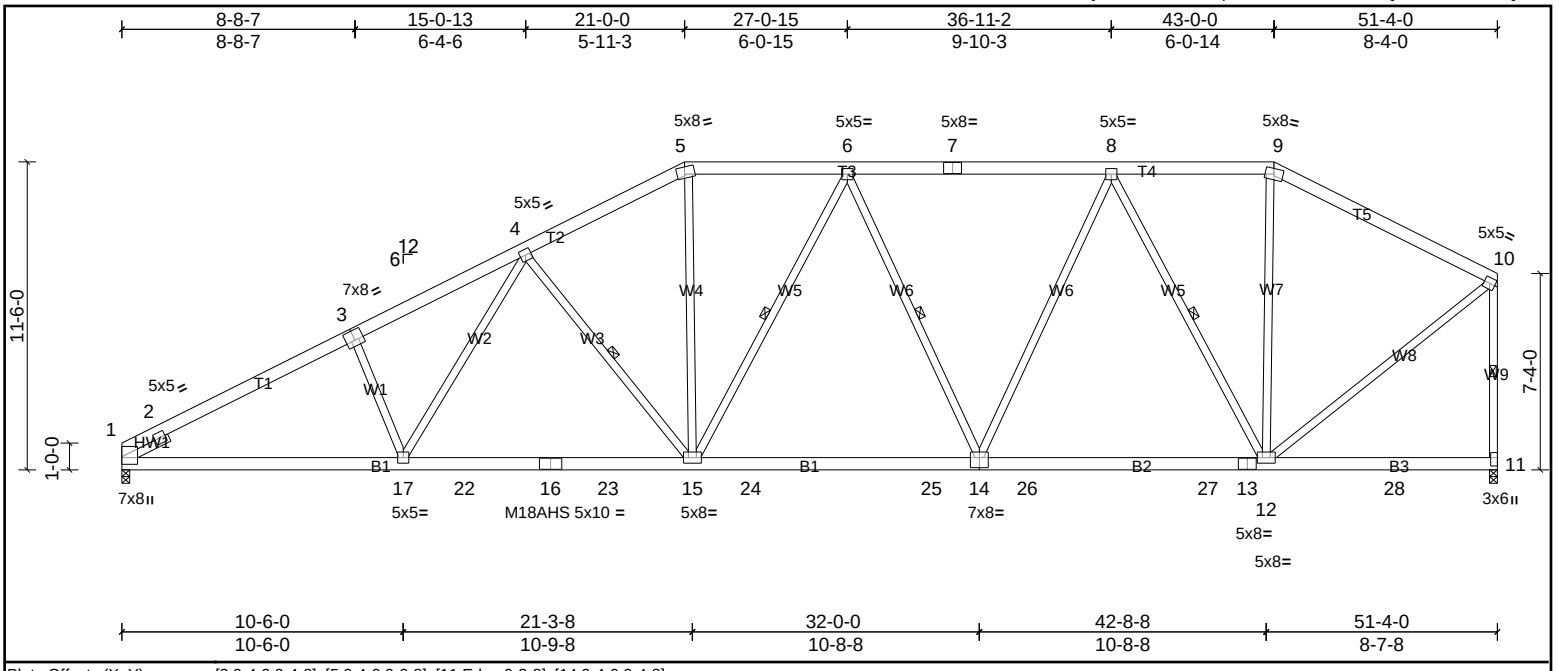


Plate Offsets (X, Y): [3:0-4-0,0-4-8], [5:0-4-0,0-0-8], [11:Edge,0-3-8], [14:0-4-0,0-4-8]

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	0.98	Vert(LL)	-0.28	15-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.51	15-17	>999	180	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.12	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 414 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* W5,W6:2x4 SP No.2
SLIDER	Left 2x4 SP No.3 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-2-2 max.): 5-9.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 10-11, 4-15, 6-15, 6-14, 8-12

REACTIONS (lb/size) 1=2048/0-3-8, (min. 0-2-7), 11=2047/0-3-8, (min. 0-2-10)
Max Horiz 1=331 (LC 10)
Max Uplift 1=-233 (LC 10), 11=-175 (LC 6)
Max Grav 1=2059 (LC 2), 11=2200 (LC 2)

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

TOP CHORD	1-2=-1452/129, 2-3=-3633/860, 3-4=-3474/918, 4-5=-2841/772, 5-6=-2494/740, 6-7=-2399/673, 7-8=-2399/673, 8-9=-1436/468, 9-10=-1665/440, 10-11=-2063/540
BOT CHORD	1-17=-926/3139, 17-22=-760/2842, 16-22=-760/2842, 16-23=-760/2842, 15-23=-760/2842, 15-24=-583/2549, 24-25=-583/2549, 14-25=-583/2549, 14-26=-453/2058, 26-27=-453/2058, 13-27=-453/2058, 12-13=-453/2058
WEBS	4-15=-665/341, 6-15=-338/229, 8-14=-89/856, 10-12=-359/1822, 6-14=-477/230, 4-17=-135/496, 3-17=-278/269, 5-15=-193/1010, 9-12=-25/478, 8-12=-1381/363

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left exposed ; end vertical left exposed;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 20.0psf 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.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 11 and 233 lb uplift at joint 1.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	A7	Truss	5	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton — Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 16 07:57:51 — Page: 1

ID:kiUWkR3qE6VC0lws3qT2j7yRXv0-0SmU5N4zZCslz9sTduSAOckHSImPs87H?8_7KzzQDL_

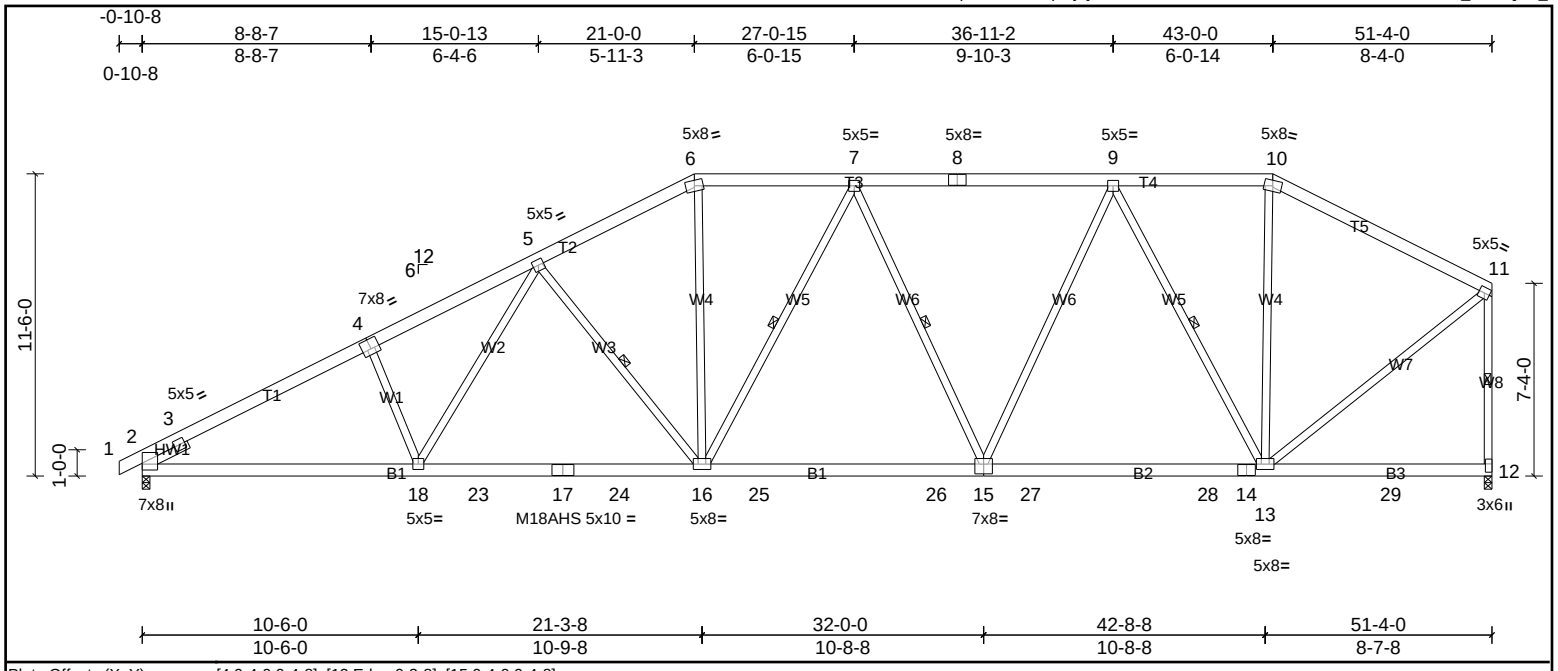


Plate Offsets (X, Y): [4:0-4-0,0-4-8], [12:Edge,0-3-8], [15:0-4-0,0-4-8]

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)	-0.28	16-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.51	16-18	>999	180	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.12	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 416 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* W6,W5:2x4 SP No.2
SLIDER	Left 2x4 SP No.3 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-2-2 max.): 6-10.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 11-12, 7-15, 5-16, 9-13, 7-16

REACTIONS (lb/size) 2=2100/0-3-8, (min. 0-2-8), 12=2047/0-3-8, (min. 0-2-10)
Max Horiz 2=346 (LC 10)
Max Uplift 2=-252 (LC 10), 12=-175 (LC 6)
Max Grav 2=2104 (LC 2), 12=2200 (LC 2)

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

TOP CHORD	2-3=-1448/114, 3-4=-3629/857, 4-5=-3470/915, 5-6=-2840/771, 6-7=-2493/739, 7-8=-2399/672, 8-9=-2399/672, 9-10=-1436/468, 10-11=-1665/439, 11-12=-2063/540
BOT CHORD	2-18=-923/3135, 18-23=-759/2840, 17-23=-759/2840, 17-24=-759/2840, 16-24=-759/2840, 16-25=-582/2548, 25-26=-582/2548, 15-26=-582/2548, 15-27=-452/2058, 27-28=-452/2058, 14-28=-452/2058, 13-14=-452/2058
WEBS	4-18=-276/268, 5-18=-133/493, 7-15=-476/230, 11-13=-359/1822, 9-15=-88/856, 5-16=-663/340, 9-13=-1381/363, 10-13=-25/478, 6-16=-193/1010, 7-16=-338/229

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; end vertical left exposed;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 20.0psf 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.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 12 and 252 lb uplift at joint 2.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	A7G	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton — Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 16 07:57:52 — Page: 1

ID:5TshUaky2JYFkMCcLaTA_wyRXu8-UfKtlj4bKW_caJRgBbzPxpHh3hK?bnAQEnkgrQzQDKz

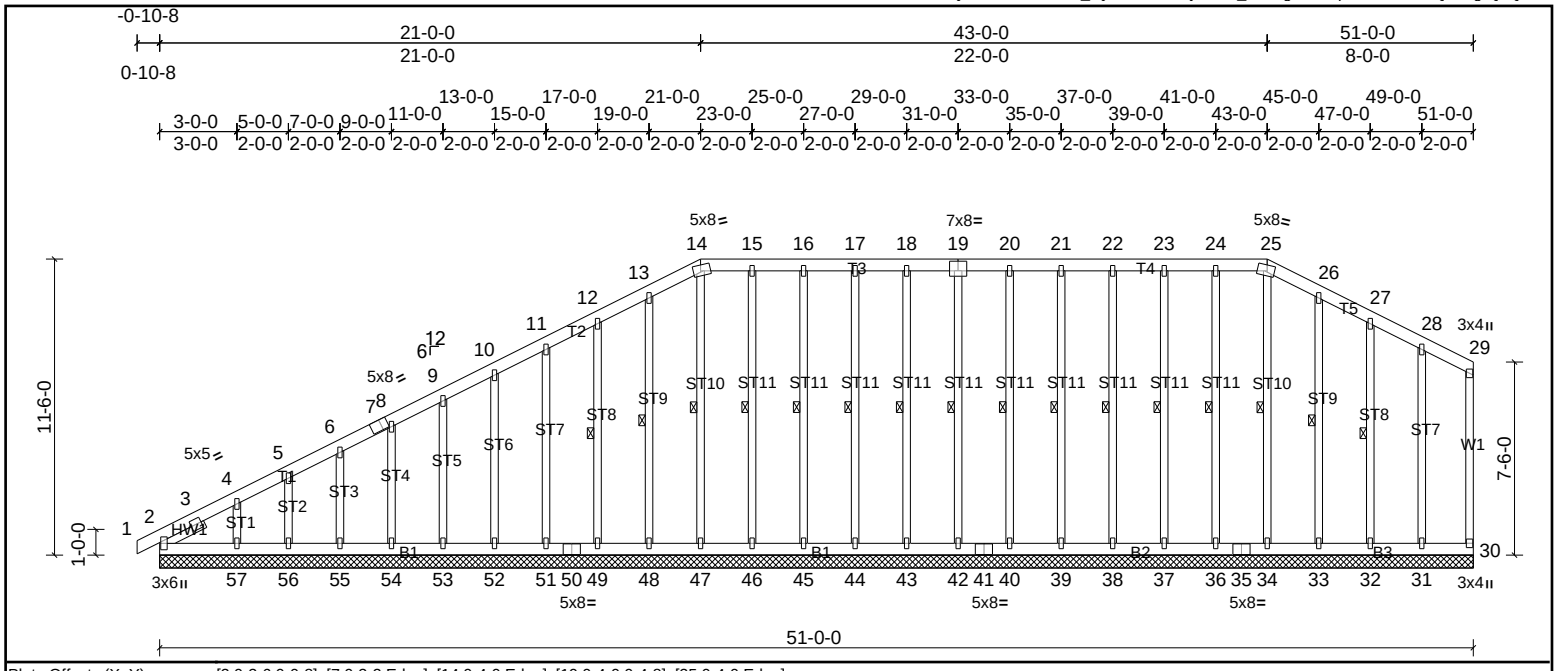


Plate Offsets (X, Y): [2:0-3-6,0-0-8], [7:0-3-2,Edge], [14:0-4-0,Edge], [19:0-4-0,0-4-8], [25:0-4-0,Edge]

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	0.04	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	0.14	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 565 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 -- 1-11-0

REACTIONS All bearings 51-0-0.

(lb) - Max Horiz 2=349 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 30, 31, 32, 33, 36, 37, 38, 39, 40, 42, 43, 44, 45, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56 except 57=-176 (LC 10)

Max Grav All reactions 250 (lb) or less at joint(s) 2, 30, 31, 32, 33, 34, 36, 37, 38, 39, 40, 42, 43, 44, 45, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57

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

TOP CHORD 3-4=-358/122, 4-5=-280/83

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 14-25.

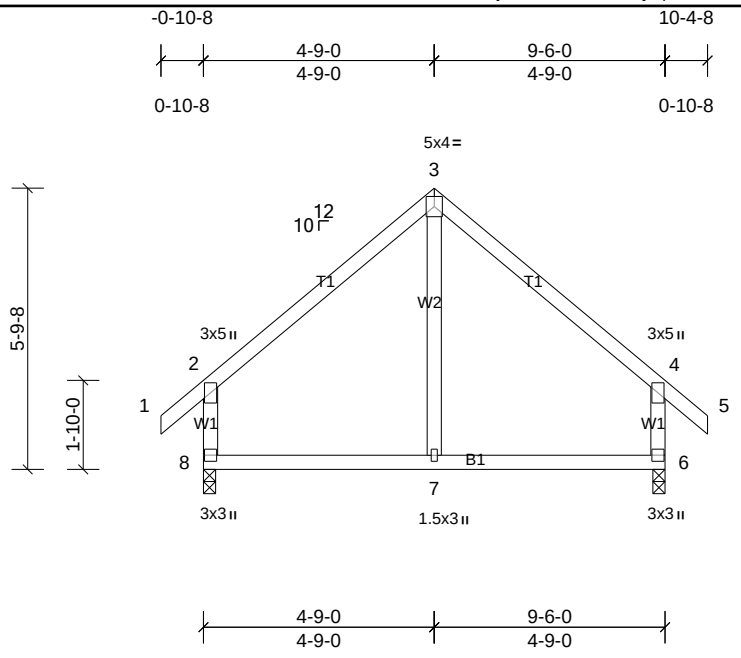
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 19-42, 20-40, 18-43, 17-44, 16-45, 15-46, 14-47, 13-48, 12-49, 21-39, 22-38, 23-37, 24-36, 25-34, 26-33, 27-32

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left 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.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x5 (||) MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf 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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 42, 40, 43, 44, 45, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 39, 38, 37, 36, 33, 32, 31 except (jt=lb) 57=175.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	B1	Truss	3	1	Job Reference (optional)



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	0.57	Vert(LL)	0.04	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.06	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 48 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3

BRACING

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

REACTIONS (lb/size) 6=430/0-3-0, (min. 0-1-8), 8=430/0-3-0, (min. 0-1-8)
Max Horiz 8=182 (LC 9)
Max Uplift 6=-57 (LC 11), 8=-57 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-303/291, 2-3=-303/291, 4-6=-357/298, 2-8=-357/298

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 6 and 57 lb uplift at joint 8.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	B1G	Truss	1	1	Job Reference (optional)

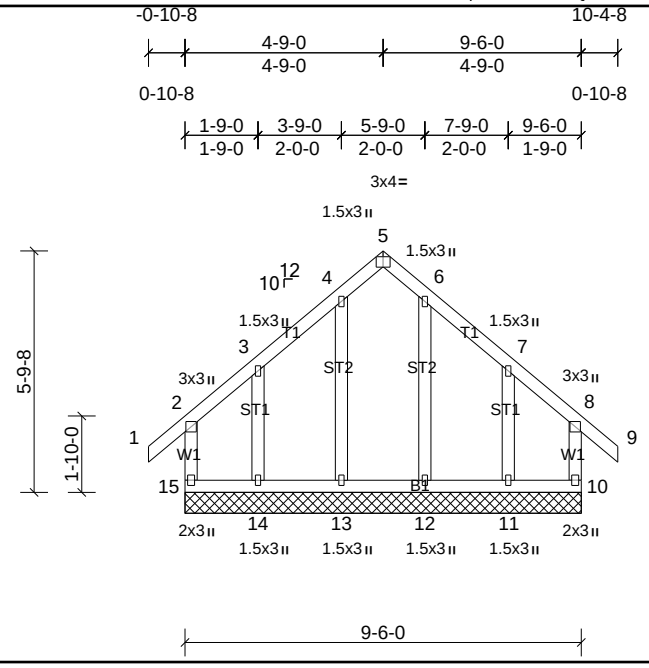


Plate Offsets (X, Y): [5:0-2-0,Edge]

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 62 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

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 All bearings 9-6-0.

(lb) - Max Horiz 15=182 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 10 except 11=-170 (LC 11), 14=-170 (LC 10), 15=-103 (LC 6)

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

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

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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.
4) Gable requires continuous bottom chord bearing.
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 20.0psf 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 100 lb uplift at joint(s) 10 except (jt=lb) 15=102, 14=170, 11=169.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	C1	Truss	7	1	Job Reference (optional)

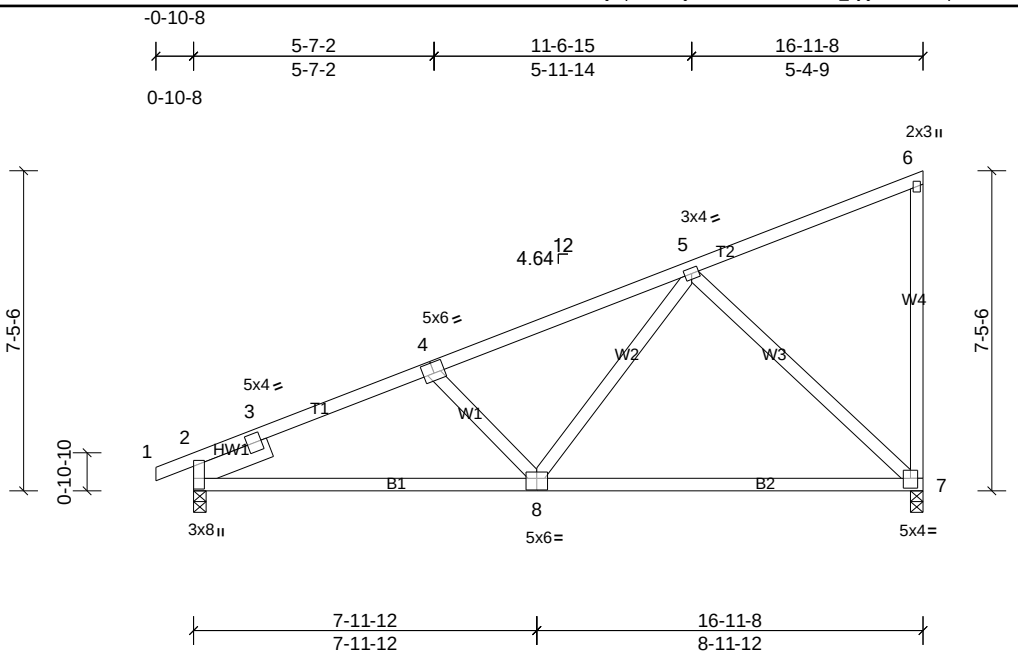


Plate Offsets (X, Y): [2:Edge,0-0-0], [4:0-3-0,0-3-0], [7:0-2-0,0-2-12], [8:0-3-0,0-3-4]

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	0.43	Vert(LL)	0.32	7-8	>623	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.36	7-8	>564	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 93 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-11-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-5-15 oc bracing.

REACTIONS (lb/size) 2=726/0-3-8, (min. 0-1-8), 7=671/0-3-8, (min. 0-1-8)
Max Horiz 2=274 (LC 10)
Max Uplift 2=-238 (LC 6), 7=-310 (LC 6)

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

TOP CHORD	2-3=-342/351, 3-4=-1059/800, 4-5=-876/756
BOT CHORD	2-8=-971/943, 7-8=-475/498
WEBS	4-8=-271/199, 5-8=-628/516, 5-7=-677/638

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint 2 and 310 lb uplift at joint 7.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	C1SG	Truss	1	1	Job Reference (optional)

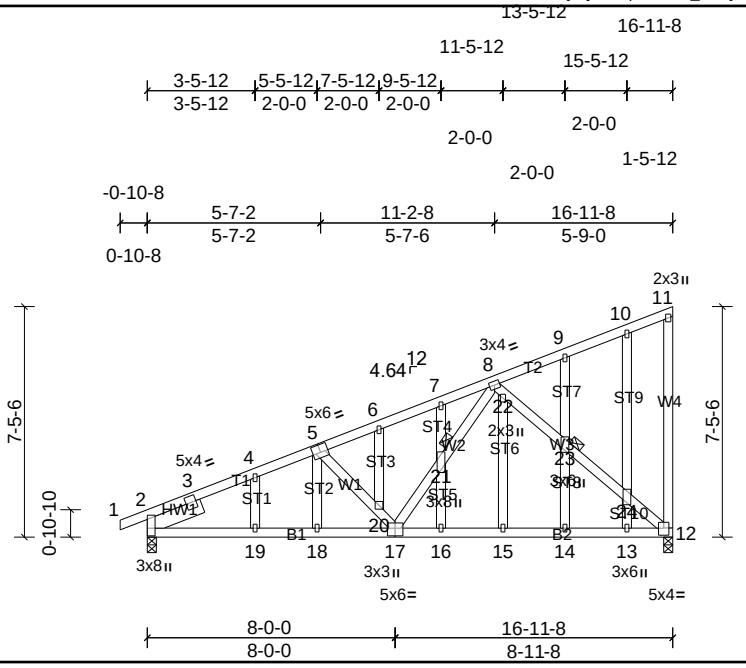


Plate Offsets (X, Y): [2:Edge,0-0-0], [5:0-3-0,0-3-0], [12:0-2-0,0-2-12], [17:0-3-0,0-3-0]

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	0.31	Vert(LL)	0.08	14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.08	14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 132 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-3-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-10-12 oc bracing.
JOINTS	1 Brace at Jt(s): 21, 23

REACTIONS (lb/size) 2=726/0-3-8, (min. 0-1-8), 12=671/0-3-8, (min. 0-1-8)
Max Horiz 2=274 (LC 10)
Max Uplift 2=-238 (LC 6), 12=-310 (LC 6)

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

TOP CHORD	3-4=-1034/803, 4-5=-989/803, 5-6=-839/655, 6-7=-841/691, 7-8=-804/690
BOT CHORD	2-19=-973/916, 18-19=-973/916, 17-18=-970/915, 16-17=-554/547, 15-16=-554/547, 14-15=-554/547, 13-14=-554/547, 12-13=-554/547
WEBS	5-20=-212/270, 17-20=-306/330, 17-21=-413/387, 8-21=-420/395, 8-22=-588/572, 22-23=-729/742, 23-24=-696/704, 12-24=-731/741

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only.
4) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 310 lb uplift at joint 12 and 238 lb uplift at joint 2.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	C2	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton — Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 16 07:57:54 — Page: 1

ID:k4VIN1Vt2hTuAVR2?pvSANzc_ZT-Q1SdjP6rs7EKqdb2J00t0EMyFVtt3gRji5DnwIzQDKx

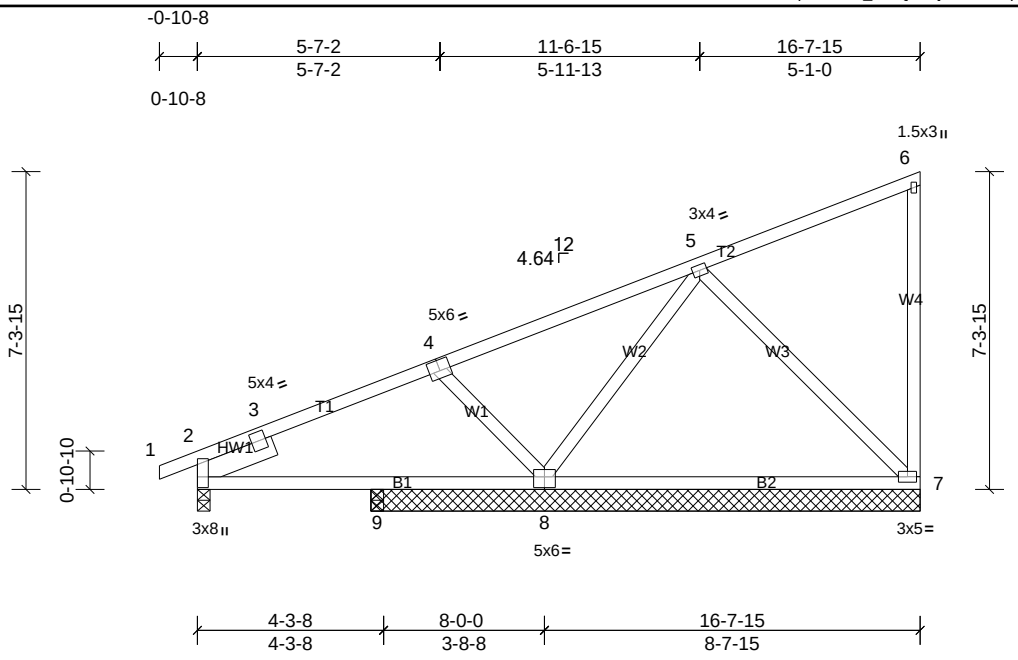


Plate Offsets (X, Y): [2:Edge,0-0-0], [4:0-3-0,0-3-0], [8:0-3-0,0-3-0]

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	0.38	Vert(LL)	-0.15	7-8	>690	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.30	7-8	>344	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 91 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-5-1 oc bracing.

REACTIONS All bearings 12-7-15. except 2=0-3-8, 9=0-3-8

(lb) - Max Horiz 2=270 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 8, 9 except 2=-111 (LC 6), 7=-161 (LC 10)

Max Grav All reactions 250 (lb) or less at joint(s) 9 except 2=364 (LC 1), 7=355 (LC 1), 8=602 (LC 1)

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

BOT CHORD 2-9=-368/268, 8-9=-368/268

WEBS 4-8=-342/243, 5-7=-230/265

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 9 except (jt=lb) 7=161, 2=110.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	C3SG	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton — Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 16 07:57:54 — Page: 1

ID:8BFH8gy4K37e6Bm9g537ABzc_Yu-Q1SdjP6rs7EKqdb2J00t0EMwMVt13dJji5DnwIzQDKx

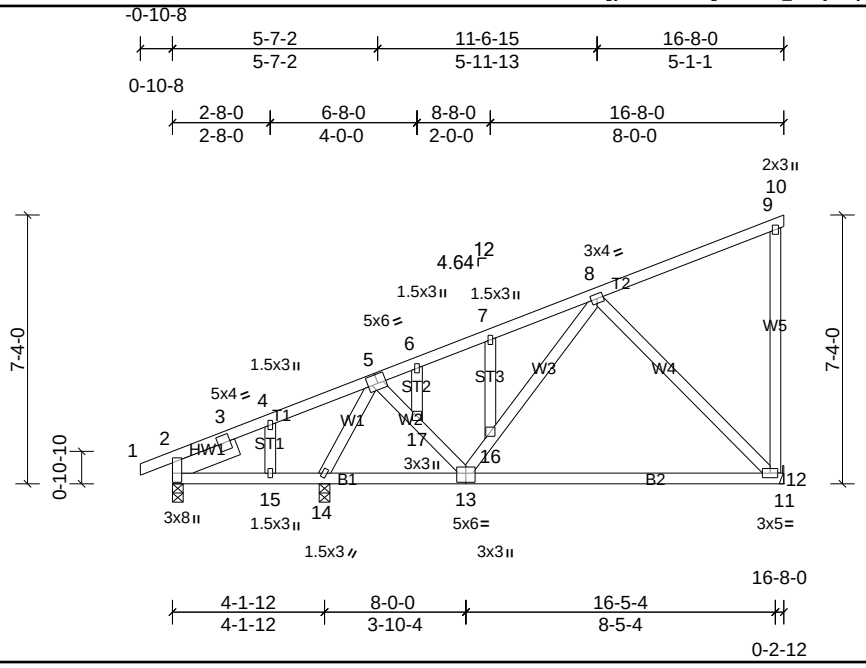


Plate Offsets (X, Y): [2:Edge,0-0-0], [5:0-2-12,0-3-0], [13:0-3-0,0-3-0]

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	0.50	Vert(LL)	-0.14	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.28	12-13	>532	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 104 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-5-7 oc bracing.

REACTIONS (lb/size) 2=286/0-3-8, (min. 0-1-8), 12=525/ Mechanical, 14=565/0-3-8, (min. 0-1-8)
Max Horiz 2=272 (LC 10)
Max Uplift 2=-97 (LC 6), 12=-177 (LC 10), 14=-81 (LC 10)

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

TOP CHORD	5-6=-494/73, 6-7=-485/90, 7-8=-464/122
BOT CHORD	2-15=-360/155, 14-15=-360/155, 13-14=-351/365, 12-13=-184/317
WEBS	13-16=-46/265, 8-16=-89/281, 8-12=-436/266, 5-14=-480/32

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left exposed ; end vertical left exposed; porch left 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.
4) Gable studs spaced at 2-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 12, 97 lb uplift at joint 2 and 81 lb uplift at joint 14.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/ TPI 1.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	PB1	Truss	19	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton — Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 16 07:57:55 — Page: 1

ID:iXMRcyzKCVD8gmjJ2F2MUhyRYim-vE0?wl7TdRMBRnAEskX6ZSv50vJCo9pswlyLSkzQDKw

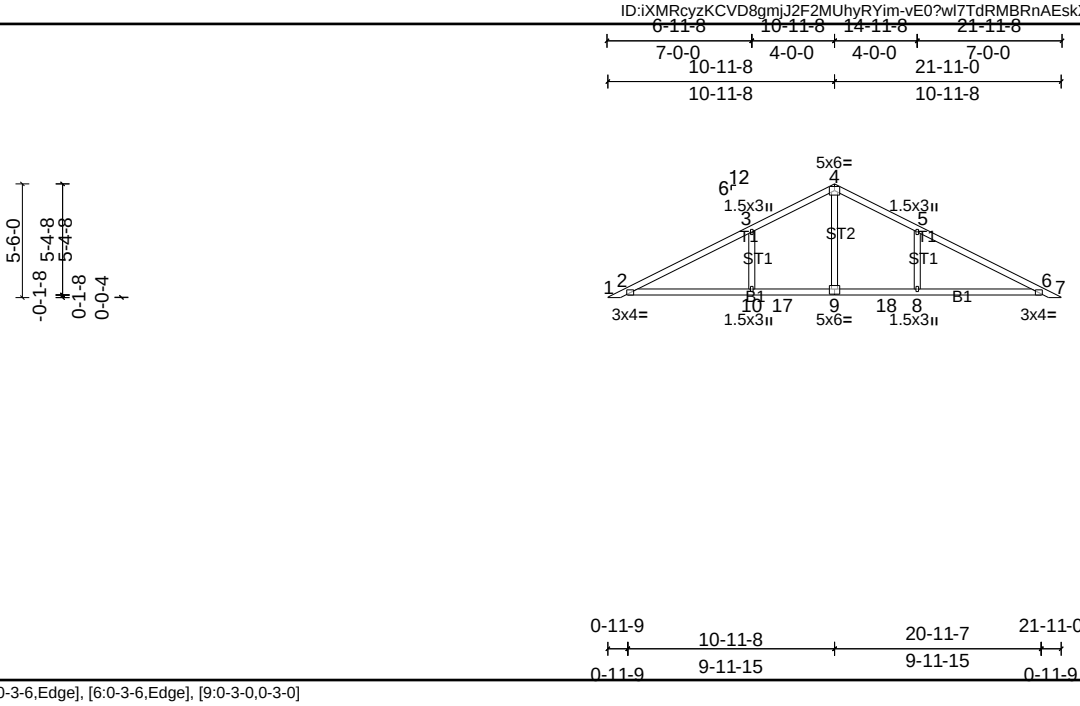


Plate Offsets (X, Y): [2:0-3-6,Edge], [6:0-3-6,Edge], [9:0-3-0,0-3-0]

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	0.51	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 82 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3

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 All bearings 22-0-0.

(lb) - Max Horiz 1=93 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) except 1=-317 (LC 1), 2=-182 (LC 10), 6=-166 (LC 11), 7=-314 (LC 1), 8=-150 (LC 11), 10=-150 (LC 10)

Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 2=650 (LC 1), 6=636 (LC 1), 8=440 (LC 22), 9=307 (LC 20), 10=441 (LC 21)

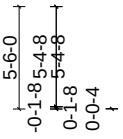
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

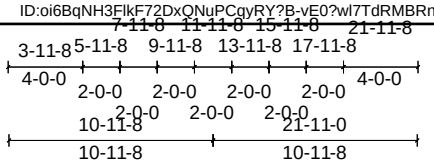
WEBS 3-10=-324/228, 5-8=-323/228

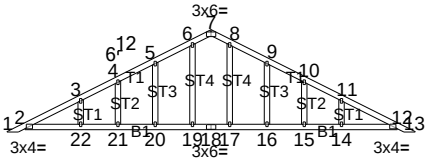
NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 316 lb uplift at joint 1, 313 lb uplift at joint 7, 181 lb uplift at joint 2, 149 lb uplift at joint 10, 149 lb uplift at joint 8, 165 lb uplift at joint 6, 181 lb uplift at joint 2 and 165 lb uplift at joint 6.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) See standard piggyback truss connection detail for connection to base truss.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	PB1G	Truss	2	1	Job Reference (optional)







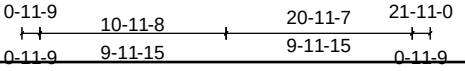


Plate Offsets (X, Y): [7:0-3-0,Edge]

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 100 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3

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 All bearings 22-0-0.

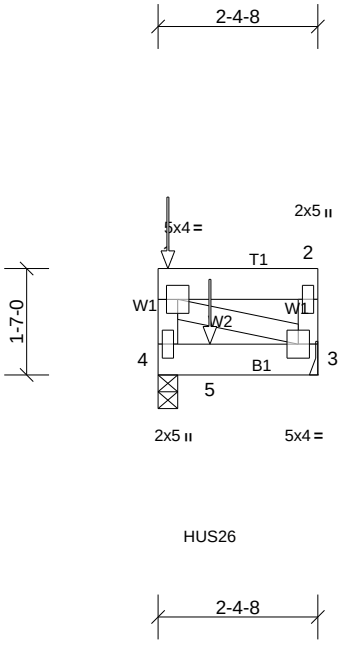
(lb) - Max Horiz 1=93 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 2, 12, 13, 14, 15, 16, 19, 20, 21, 22
Max Grav All reactions 250 (lb) or less at joint(s) 1, 2, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22

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

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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.
4) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 100 lb uplift at joint(s) 1, 13, 2, 12, 19, 20, 21, 22, 16, 15, 14, 2, 12.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) See standard piggyback truss connection detail for connection to base truss.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	RFG1	Truss	1	**2**	Job Reference (optional)



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	0.21	Vert(LL)	0.00	3-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	0.00	3-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 32 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3

BRACING

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

REACTIONS (lb/size) 3=236/ Mechanical, 4=2425/0-3-8, (min. 0-1-8)
Max Uplift 3=-73 (LC 4), 4=-302 (LC 4)
Max Grav 3=236 (LC 1), 4=2530 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-2198/184

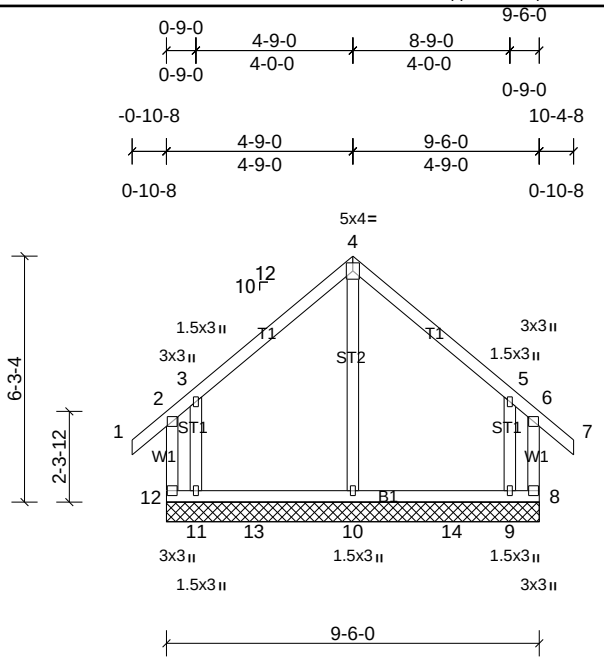
NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row 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.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 302 lb uplift at joint 4 and 73 lb uplift at joint 3.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent at 0-9-4 from the left end to connect truss(es) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2146 lb down and 154 lb up at 0-1-12 on top 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: 1-2=-60, 3-4=-20
Concentrated Loads (lb)
Vert: 1=-1985, 5=-509

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	V1	Truss	1	1	Job Reference (optional)



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	0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 58 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

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 All bearings 9-6-0.

(lb) - Max Horiz 12=201 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) except 8=-390 (LC 9), 9=-341 (LC 6), 11=-348 (LC 7), 12=-400 (LC 8)

Max Grav All reactions 250 (lb) or less at joint(s) except 8=316 (LC 6), 9=628 (LC 18), 10=397 (LC 20), 11=634 (LC 17), 12=324 (LC 7)

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

WEBS 3-11=-380/283, 5-9=-378/283

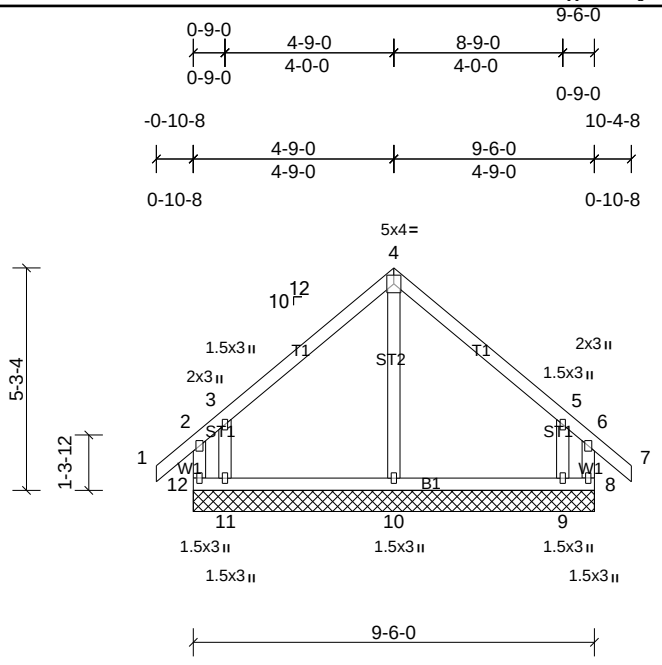
NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 399 lb uplift at joint 12, 390 lb uplift at joint 8, 348 lb uplift at joint 11 and 340 lb uplift at joint 9.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/ TPI 1.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	V2	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton — Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 16 07:57:56 — Page: 1

ID:uvSV2AEbShK3myyOIulORgzSU47-NQaN8576OkU23xlRQR2L5fSKYJgrXce09Piu_BzQDKv



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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 50 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

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 All bearings 9-6-0.

(lb) - Max Horiz 12=163 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) except 8=-236 (LC 9), 9=-275 (LC 11), 11=-279 (LC 10), 12=-257 (LC 8)

Max Grav All reactions 250 (lb) or less at joint(s) 8, 12 except 9=461 (LC 18), 10=309 (LC 1), 11=472 (LC 17)

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

WEBS 3-11=-374/288, 5-9=-374/286

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 257 lb uplift at joint 12, 235 lb uplift at joint 8, 279 lb uplift at joint 11 and 275 lb uplift at joint 9.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	V3G	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton — Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 16 07:57:56 — Page: 1

ID:xWLkdUDKx44LXfp0BTiwMFzSU49-NQaN8576OkU23xlRQR2L5fSMGJg_Xbs09Piu_BzQDKv

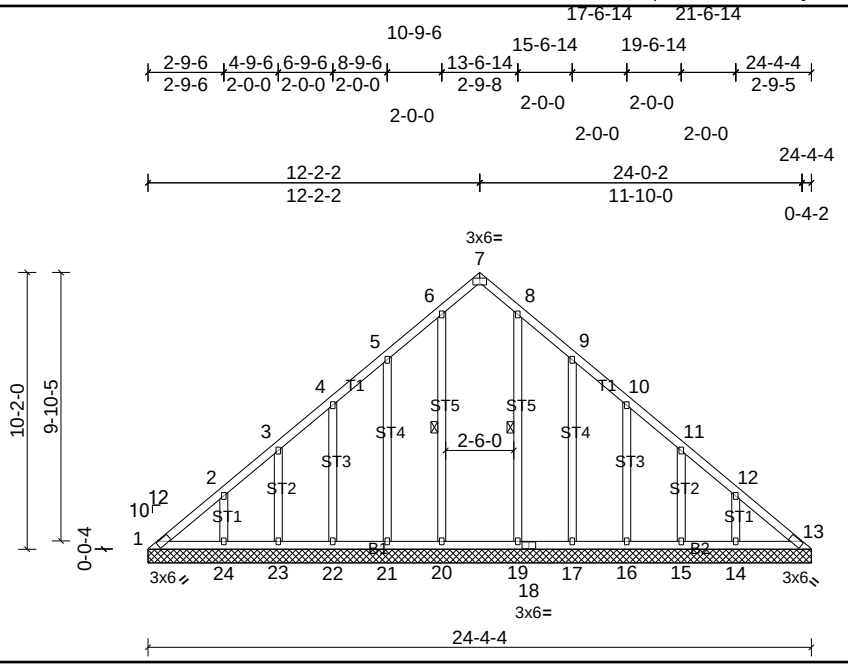


Plate Offsets (X, Y): [7:0-3-0,Edge], [8:0-1-9,0-1-0], [9:0-1-9,0-1-0], [10:0-1-9,0-1-0], [11:0-1-9,0-1-0], [12:0-1-9,0-1-0]

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.01	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 158 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3

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.
WEBS	1 Row at midpt 6-20, 8-19

REACTIONS All bearings 24-4-4.

(lb) - Max Horiz 1=257 (LC 7)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 13, 15, 16, 19, 20, 22, 23, 24 except 14=-114 (LC 11), 17=-116 (LC 11), 21=-111 (LC 10)

Max Grav All reactions 250 (lb) or less at joint(s) 1, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23 except 24=255 (LC 17)

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

TOP CHORD 1-2=-364/251, 2-3=-280/172, 11-12=-257/171, 12-13=-351/254

BOT CHORD 1-24=-214/307, 23-24=-214/307, 22-23=-214/307, 21-22=-214/307, 20-21=-214/307, 19-20=-214/307, 18-19=-214/307, 17-18=-214/307, 16-17=-214/307, 15-16=-214/307, 14-15=-214/307, 13-14=-214/307

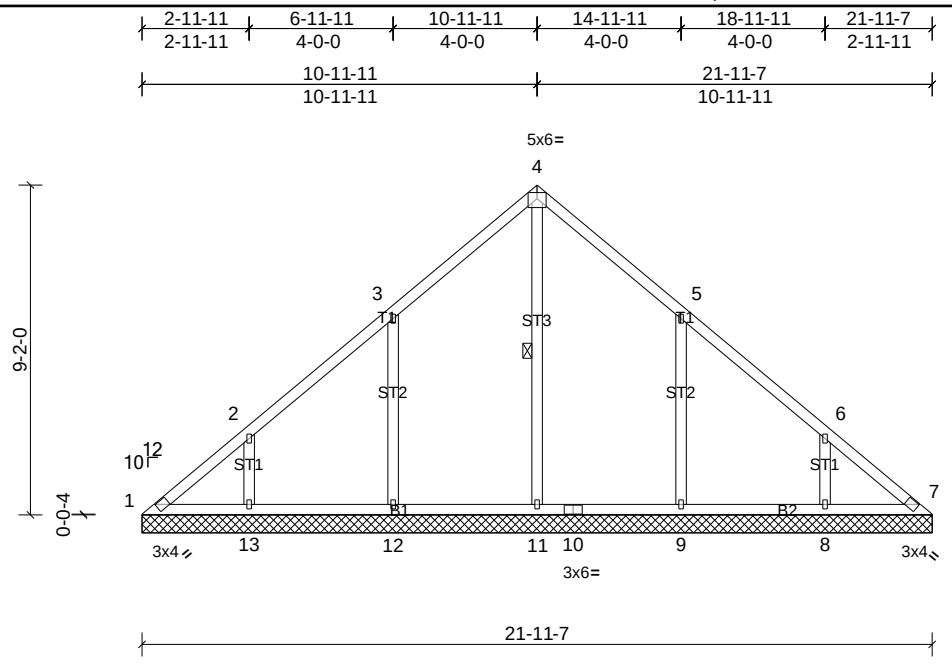
NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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.
4) All plates are 2x3 (||) MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 20, 19, 22, 23, 24, 16, 15 except (jt=lb) 21=111, 17=115, 14=113.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	V4	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton — Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 16 07:57:57 — Page: 1

ID:xWLkdUDKx44LXfp0BTiwMFzSU49-rc7mLR8k92cuh4Kd_8Zaet_Ugi?qG2n9O3RRWdzQDKu



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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 108 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 4-11

REACTIONS All bearings 21-11-7.

(lb) - Max Horiz 1=232 (LC 7)

Max Uplift All uplift 100 (lb) or less at joint(s) 7 except 1=-122 (LC 6), 8=-134 (LC 11), 9=-210 (LC 11), 12=-199 (LC 10), 13=-152 (LC 10)

Max Grav All reactions 250 (lb) or less at joint(s) 1 except 8=319 (LC 18), 9=437 (LC 18), 11=650 (LC 20), 12=442 (LC 17), 13=308 (LC 17)

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

TOP CHORD	1-2=-230/317, 2-3=-175/294, 3-4=-199/346, 4-5=-199/317
WEBS	4-11=-432/33, 3-12=-318/249, 2-13=-258/190, 5-9=-319/252, 6-8=-256/183

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 1, 199 lb uplift at joint 12, 151 lb uplift at joint 13, 209 lb uplift at joint 9 and 134 lb uplift at joint 8.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	V5	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton — Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 16 07:57:57 — Page: 1

ID:Piu6qqDzhOCC8pNClAE9vSzSU48-rc7mLR8k92cuh4Kd_8Zaet_UHi?qG1T9O3RRWdzQDKu

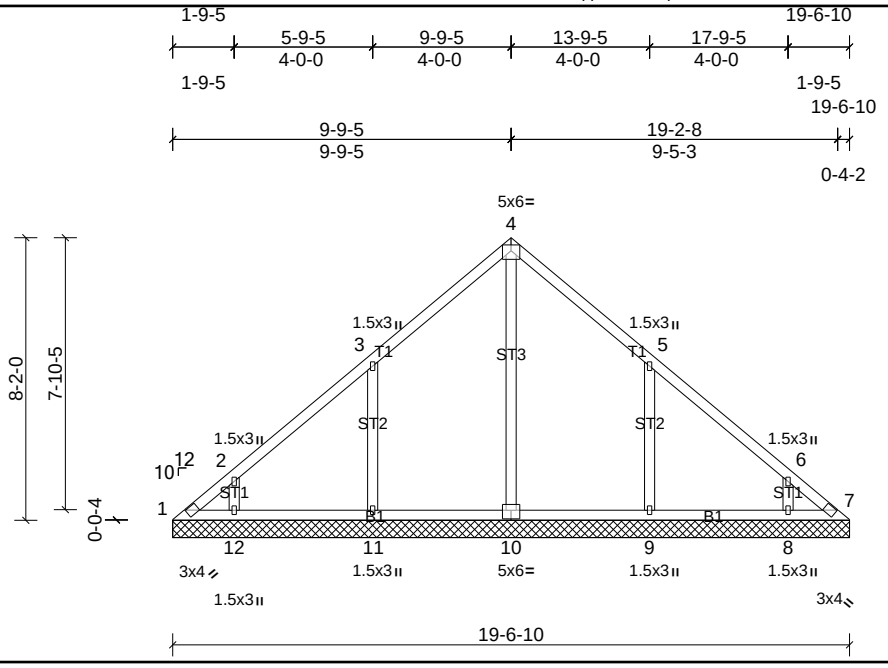


Plate Offsets (X, Y): [10:0-3-0,0-3-0]

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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horiz(TL)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 92 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3

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 All bearings 19-6-10.

(lb) - Max Horiz 1=206 (LC 7)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 7 except 8=-142 (LC 11), 9=-201 (LC 11), 11=-203 (LC 10), 12=-117 (LC 10)

Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=275 (LC 18), 9=446 (LC 18), 10=389 (LC 20), 11=446 (LC 17), 12=281 (LC 17)

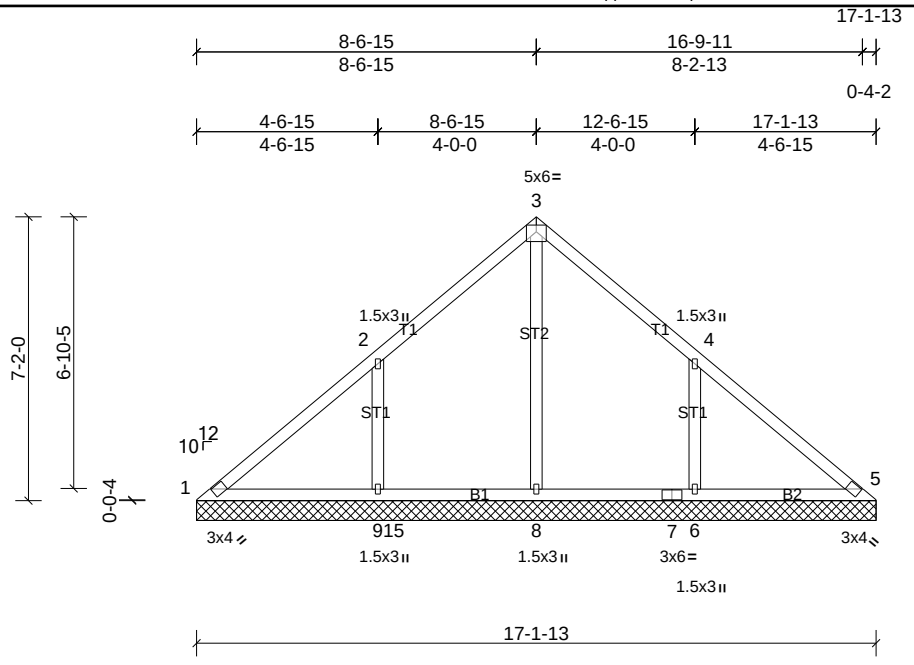
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 3-11=-321/250, 5-9=-320/249, 6-8=-251/196

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=203, 12=116, 9=200, 8=141.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	V6	Truss	1	1	Job Reference (optional)



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	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 77 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING

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

REACTIONS All bearings 17-1-13.

(lb) - Max Horiz 1=180 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-218 (LC 11), 9=-225 (LC 10)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=478 (LC 18), 8=639 (LC 17), 9=485 (LC 17)

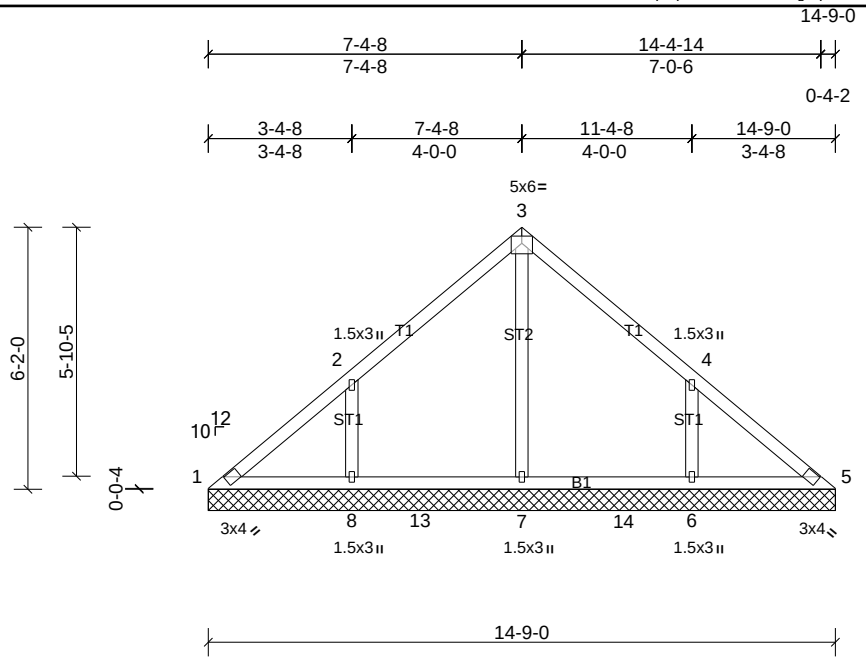
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-121/359, 2-3=-11/304, 3-4=-10/281, 4-5=-42/292
WEBS	3-8=-461/0, 2-9=-340/253, 4-6=-338/251

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=224, 6=218.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	V7	Truss	1	1	Job Reference (optional)



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	0.20	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	0.15	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 64 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING

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

REACTIONS All bearings 14-9-0.

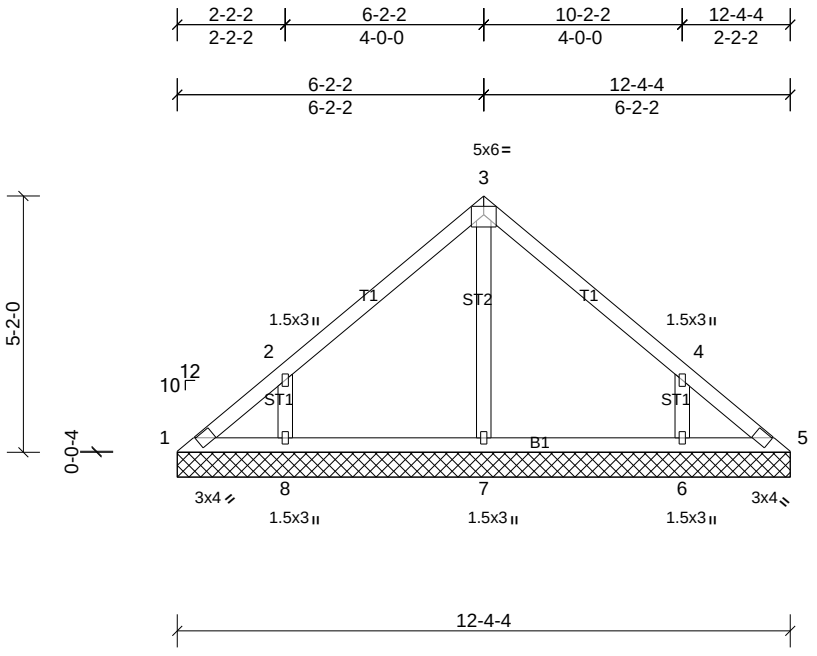
(lb) - Max Horiz 1=155 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=-184 (LC 11), 8=-188 (LC 10)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=396 (LC 18), 7=401 (LC 17), 8=400 (LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-300/224, 4-6=-300/222

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=187, 6=184.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	V8	Truss	1	1	Job Reference (optional)



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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 51 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3

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 All bearings 12-4-4.

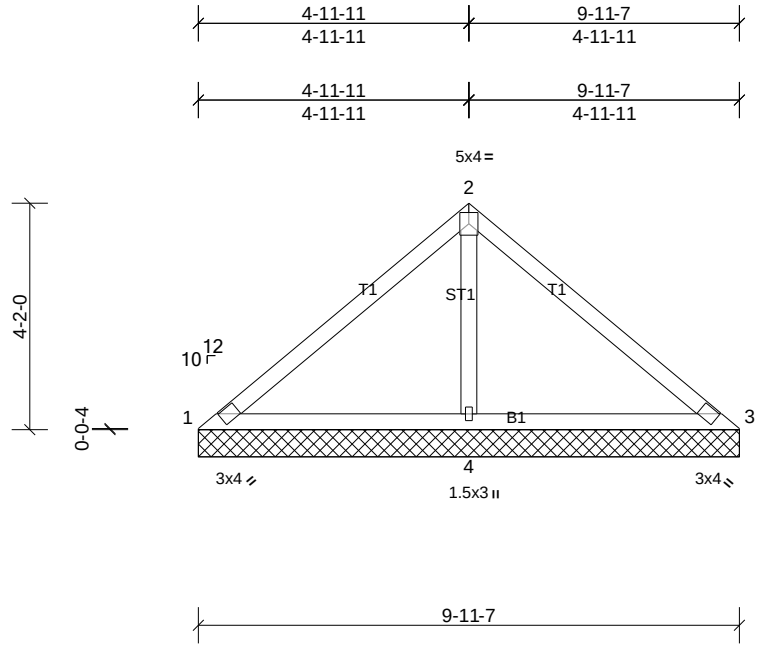
(lb) - Max Horiz 1=-129 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5 except 6=-161 (LC 11), 8=-164 (LC 10)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5, 7 except 6=332 (LC 18), 8=336 (LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-287/219, 4-6=-287/218

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=164, 6=160.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	V9	Truss	1	1	Job Reference (optional)



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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 38 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 9-11-7 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=26/9-11-7, (min. 0-1-8), 3=26/9-11-7, (min. 0-1-8), 4=743/9-11-7, (min. 0-1-8)
Max Horiz 1=-103 (LC 8)
Max Uplift 1=-31 (LC 22), 3=-31 (LC 21), 4=-150 (LC 10)
Max Grav 1=69 (LC 21), 3=69 (LC 22), 4=743 (LC 1)

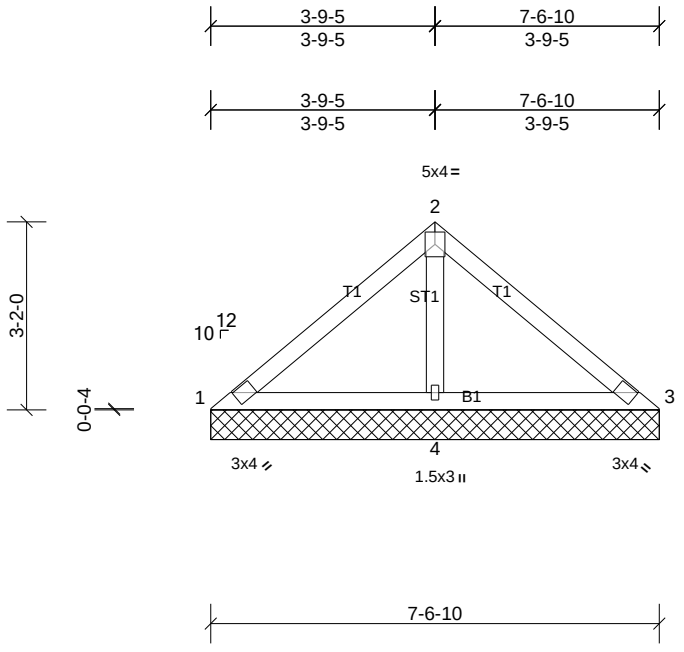
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-111/320, 2-3=-111/320
BOT CHORD	1-4=-267/165, 3-4=-267/165
WEBS	2-4=-569/244

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 1, 31 lb uplift at joint 3 and 150 lb uplift at joint 4.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	V10	Truss	1	1	Job Reference (optional)



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	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 28 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 7-6-10 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=51/7-6-10, (min. 0-1-8), 3=51/7-6-10, (min. 0-1-8), 4=502/7-6-10, (min. 0-1-8)
Max Horiz 1=-77 (LC 6)
Max Uplift 3=-7 (LC 6), 4=-90 (LC 10)
Max Grav 1=75 (LC 21), 3=75 (LC 22), 4=502 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-363/150

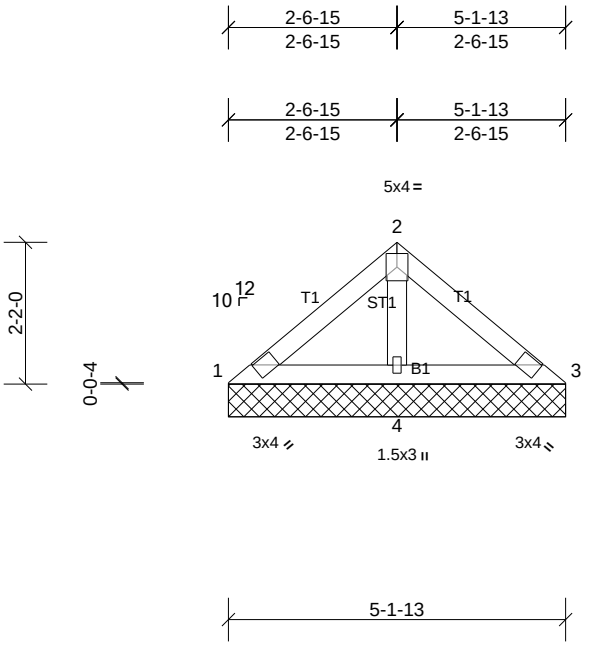
NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 3 and 90 lb uplift at joint 4.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	PBS\CLAYTON FRENCH COUNTRY LH RF
72509877	V11	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton — Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 16 07:57:59 — Page: 1

ID:rPahYH5vy0t58WOW2vUf8SzSSIi-n?FWm6A_hfscwOU05Zb2jI4t_Wi0kzUSrNwYbWzQDKs



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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 19 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-1-13 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=55/5-1-13, (min. 0-1-8), 3=55/5-1-13, (min. 0-1-8), 4=301/5-1-13, (min. 0-1-8)

Max Horiz 1=-51 (LC 6)

Max Uplift 1=-2 (LC 10), 3=-11 (LC 11), 4=-45 (LC 10)

Max Grav 1=67 (LC 21), 3=67 (LC 22), 4=301 (LC 1)

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

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; 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) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1, 11 lb uplift at joint 3 and 45 lb uplift at joint 4.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.