



UFP SITE BUILT

A UFP INDUSTRIES COMPANY

PROFESSIONAL BLDRS- NEW HOMES

TRUSS: A2
JOB ID: 72500235
DELIVERY DATE: 3/20/2025
REPAIR JOB ID: 72500235REP1
REPAIR DELIVERY DATE: 4/25/2025

REQUESTED BY: Lee, Josh
EMAIL: joshua.lee@ufpi.com
REQUESTED ON: 4/24/2025

SUBDIVISION/MODEL: DUNCANS CREEK
LOT #: 32

DELIVERY ADDRESS: PROFESSIONAL BLDRS-NEW HOMES
1611 JONES FRANKLIN RD
STE 101
RALEIGH, NC 27606

REPAIR ID: 0026134 (ATTACHED)

Job	Truss	Truss Type	Qty	Ply	PBSHANOVER TRADITIONAL W/CAFE
72500235	A2	Truss	4	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Bellingham, NC, Mical Claytor

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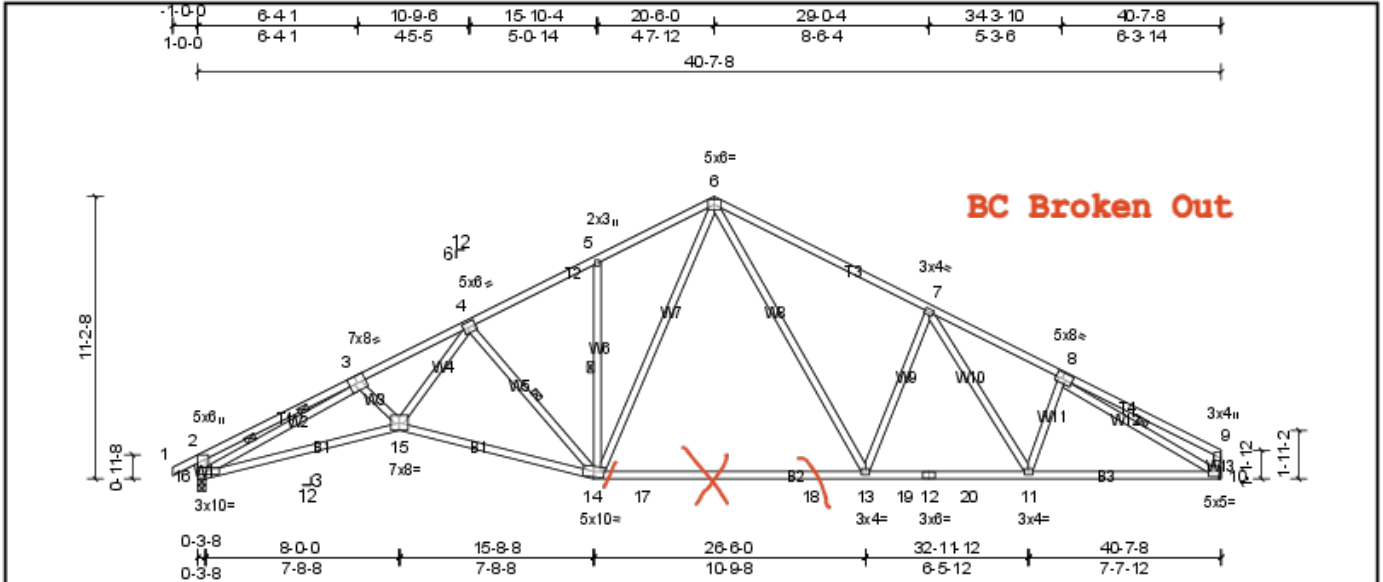


Plate Orbits (X, Y):		[2-0-3-0, Edge], [8-0-3-0, 0-3-0], [16-0-6-8, 0-1-0]	
Loading	(psf)	Spacing	2-0-0
TCLL (foot)	20.0	Plate Grip DOL	1.15
TCDL	10.0	Lumber DOL	1.15
BCLL	0.0*	Rep Stress Incr	YES
BCDL	10.0	Code	IRC2015/TP2014
		CS1	TC
		DEFL	In (b/c)
		Ver (LL)	-0.58 13-14 >828 240
		Ver (CT)	-1.07 13-14 >454 180
		Horz (CT)	0.27 10 1/4 1/4
		Weight: 250 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2 "Except" T3 2x4 SP SS	TOP CHORD	Structural wood sheathing directly applied, excepted verticals.
BOT CHORD	2x4 SP No.1 "Except" B3 2x4 SP No.2, B22x4 SP SS	BOT CHORD	Rigid ceiling directly applied or 6-6-15 oc bracing.
WEBS	2x4 SP No.3 "Except" W1 2x4 SP No.2	WEBS	1 Row at midpt
REACTIONS	(b&c) 10-1612/Mechanical, (n l. 0-1-8), 16-16830-3-8, (n l. 0-1-8)	WEBS	2 Rows at 1/3 pts
	Max Horiz 16-174 (LC 7)		5-14, 4-14, 8-10
	Max Uplift 10-216 (LC 11), 16-245 (LC 10)		3-16
FORCES	(b) - Max. Comp/Max. Tens. - All forces 250 (b) or less except where shown.		
TOP CHORD	9-10--317/169, 2-3--728/289, 3-4--4214/112, 4-5--2117/687, 5-6--2109/807, 6-7--2249/773, 7-8--2428/750, 8-9--374/179, 2-16--579/800		
BOT CHORD	15-16--898/8766, 14-15--5702/724, 14-17--171/1492, 17-18--171/1492, 13-18--171/1492, 13-19--408/2064, 12-19--408/2064, 12-20--408/2064, 11-20--408/2064, 10-11--492/2130		
WEBS	5-14--306/205, 3-16--3633/637, 4-15--418/1949, 4-14--1264/402, 6-14--299/902, 6-13--237/909, 7-13--640/348, 8-10--2229/527		

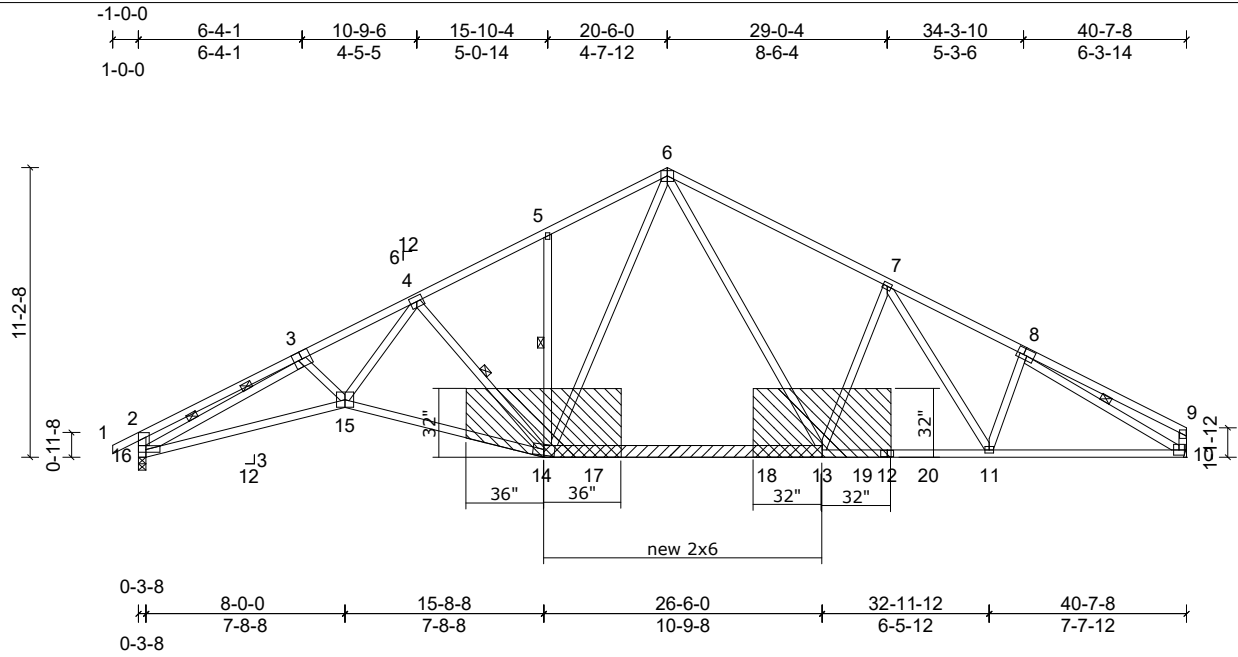
- NOTES
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; V=130mph (3-second gust) V=103mph; TCCL=6.0psf, BCDL=6.0psf, I=35ft Cat II; Exp B; Enclosed; MWFRS (all types) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C form members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load no concurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3'-0" x 6'-0" tall by 2'-0" x 0'-0" wide will fit between the bottom chord and any other members, with BCDL=10.0psf.
 - Bearing at joints: 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (if others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 10 and 245 lb uplift at joint 16.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R502.10.2 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 while truss is fabricated by a UFP plant. Bracing shown is for lateral support of truss members only and does not replace erecting and permanent bracing. Refer to Building Component Safety Information (CS) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job	Truss	Truss Type	Qty	Ply	PBS\HANOVER TRADITIONAL W/CAFE
72500235REP1	A2	Truss	4	1	Job Reference (optional)

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Repair to replace section of bottom chord as shown.

Cut and fit tight a new 2x6 SP or SPF No.2 as shown.
attach 1/2" Plywood or 7/16" OSB (APA Rated Sheathing Exposure 1) gusset
to both sides of truss as shown with two rows of 10d (.131" x 3") nails
spaced 4" oc in all members from each face, driven through both sheets of plywood.

Plate Offsets (X, Y):		[2'-0"-3'-0" Edge], [8'-0"-3'-0"-3'-0"], [16'-0"-6'-8"-1'-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	0.84	Vert(LL)	-0.58	13-14	>829	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-1.07	13-14	>454	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.27	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TP12014	Matrix-MSH							Weight: 250 lb	FT = 20%

LUMBER			BRACING		
TOP CHORD	2x4 SP No.2 "Except" T3:2x4 SP SS		TOP CHORD	Structural wood sheathing directly applied, except end verticals.	
BOT CHORD	2x4 SP No.1 "Except" B3:2x4 SP No.2, B2:2x4 SP SS		BOT CHORD	Rigid ceiling directly applied or 6-5-15 oc bracing.	
WEBS	2x4 SP No.3 "Except" W1:2x4 SP No.2		WEBS	1 Row at midpt	5-14, 4-14, 8-10
			WEBS	2 Rows at 1/3 pts	3-16
REACTIONS					
	(lb/size)	10=1612/ Mechanical, 16=1683/0-3-8, (min. 0-1-8)			
	Max Horiz	16=174 (LC 7)			
	Max Uplift	10=-216 (LC 11), 16=-245 (LC 10)			
FORCES					
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.				
TOP CHORD	9-10=-317/169, 2-3=-728/289, 3-4=-4214/1112, 4-5=-2117/687, 5-6=-2109/807, 6-7=-2249/773, 7-8=-2428/750, 8-9=-374/179, 2-16=-579/300				
BOT CHORD	15-16=-898/3766, 14-15=-570/2724, 14-17=-171/1492, 17-18=-171/1492, 13-18=-171/1492, 13-19=-408/2064, 12-19=-408/2064, 11-20=-408/2064, 10-11=-492/2130				
WEBS	5-14=-306/205, 3-16=-363/837, 4-15=-418/1949, 4-14=-1264/402, 6-14=-299/902, 6-13=-237/909, 7-13=-540/348, 8-10=-2229/527				

- NOTES (8)
- Unbalanced roof live loads have been considered for this design.
 - 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 16 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 10 and 245 lb uplift at joint 16.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.
 - This repair has been prepared based on information and use conditions supplied by client. Designer has made a good faith effort to outline damage and repair conditions as reported by client. When actual field conditions do not approximate those indicated on this drawing, client shall immediately inform the engineer and refrain from applying the repair.



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.

