

Job 72314638REP1	Truss F208	Truss Type Truss	Qty 5	Ply 1	PBS\SMITHFIELD FC RH 2ND FL OW Job Reference (optional)
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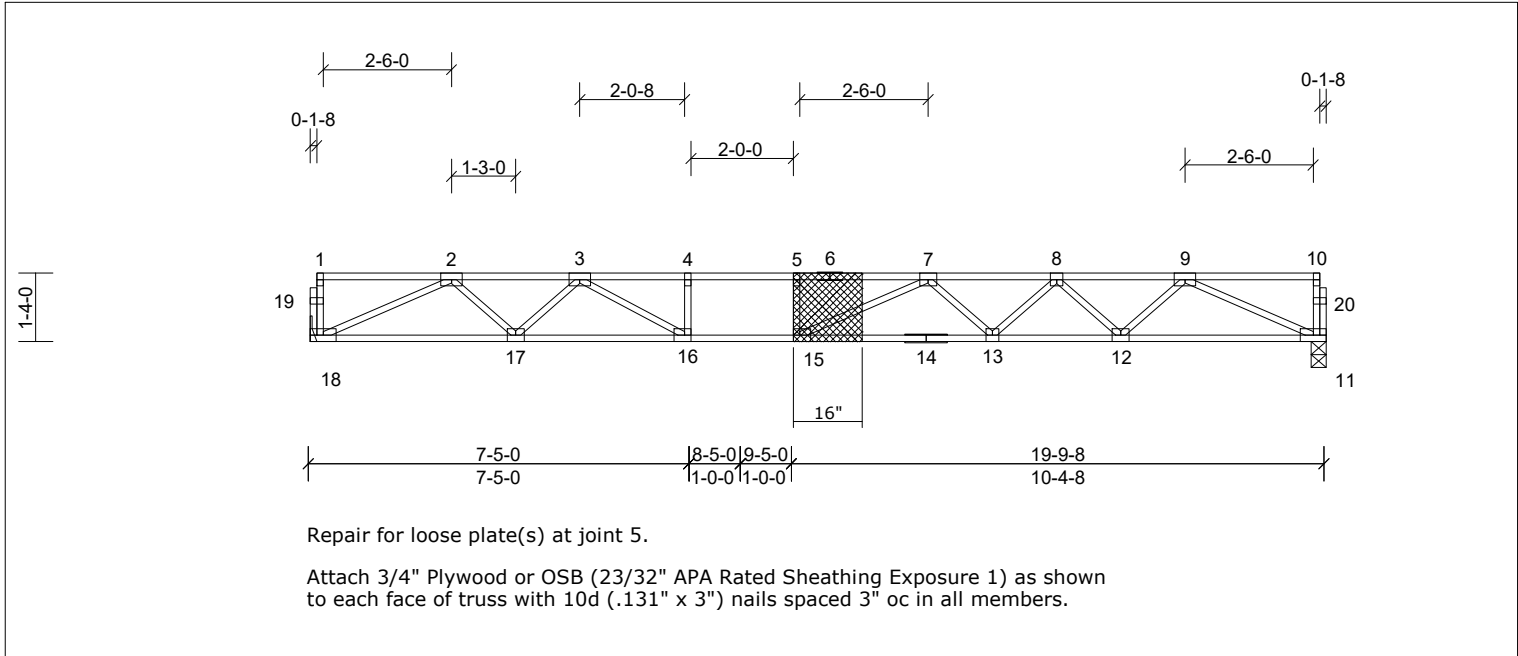


Plate Offsets (X, Y): [15.0-1-8,Edge], [16.0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.36	13-15	>651	480	MT18HS 244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.50	13-15	>471	360	MT20 244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.06	11	n/a	n/a	
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 98 lb FT = 20%F, 11%E

LUMBER	BRACING
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
BOT CHORD 2x4 SP SS(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS	(lb/size)
	11=854/0-3-8, (min. 0-1-8), 18=854/ Mechanical, (min. 0-1-8)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=2175/0, 3-4=3374/0, 4-5=3374/0, 5-6=3374/0, 6-7=3374/0, 7-8=3055/0, 8-9=2187/0
BOT CHORD	17-18=0/1643, 16-17=0/2702, 15-16=0/3374, 14-15=0/3338, 13-14=0/3338, 12-13=0/2713, 11-12=0/1645
WEBS	4-16=298/0, 2-18=1804/0, 2-17=0/740, 3-17=733/0, 3-16=0/926, 9-11=-1806/0, 9-12=0/755, 8-12=-732/0, 8-13=0/475, 7-13=-394/0, 7-15=-250/449

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) 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.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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.

