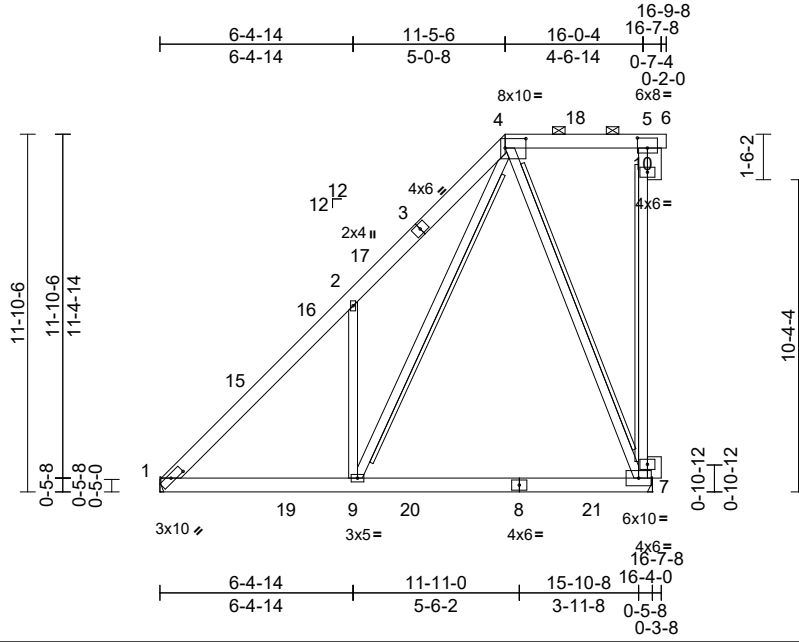


Job 22010043-C	Truss B5	Truss Type Piggyback Base	Qty 2	Ply 1	38 Purfoy Place-Emma-Roof Job Reference (optional)	150325939
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Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Fri Feb 18 12:26:29
ID:114LyygjbzGmdz4b2p6LjqzkEVK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC7f

Page: 1



Scale = 1:76.4

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.14	7-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.22	7-9	>889	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 153 lb	FT = 8%

LUMBER	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2 *Except* 9-2:2x4 SP No.3, 11-7:2x6 SP No.2
OTHERS	2x4 SPF No.2(flat) *Except* 10-5:2x6 SP No.2
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.): 4-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - 5-7, 4-7, 4-9 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.
REACTIONS	(lb/size)
	1=638/ Mechanical, 7=686/ Mechanical
	Max Horiz 1=573 (LC 14)
	Max Uplift 7=-338 (LC 14)
	Max Grav 1=817 (LC 40), 7=849 (LC 37)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-937/0, 2-4=-1155/367, 4-5=-7/0, 5-6=0/0, 5-7=-301/120
BOT CHORD	1-9=-353/729, 7-9=-144/247
WEBS	2-9=-603/555, 4-7=-649/389, 4-9=-519/1188

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

- Wind: ASCE 7-16; Vult=145mph (3-second gust) Vasd=115mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 7-2-7, Exterior(2R) 7-2-7 to 13-9-8, Exterior (2E) 13-9-8 to 16-9-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 338 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

