Job	Truss	Truss Type	Qty	Ply	H&H, Southport (A_3), A, Lot 69, OAKMON
3095746	A05	PIGGYBACK BASE	6	1	I52840832
					Job Reference (optional)

Builders FirstSource (Sumter, SC), Sumter, SC - 29153, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jun 29 17:47:02 2022 Page 1
ID:oMYUFR_W5RnH0V88pNA3fyzorLo-?BauMnRaRmwTU?_ps8o9QKTfu2TZafcqUrZQYBz1LoN

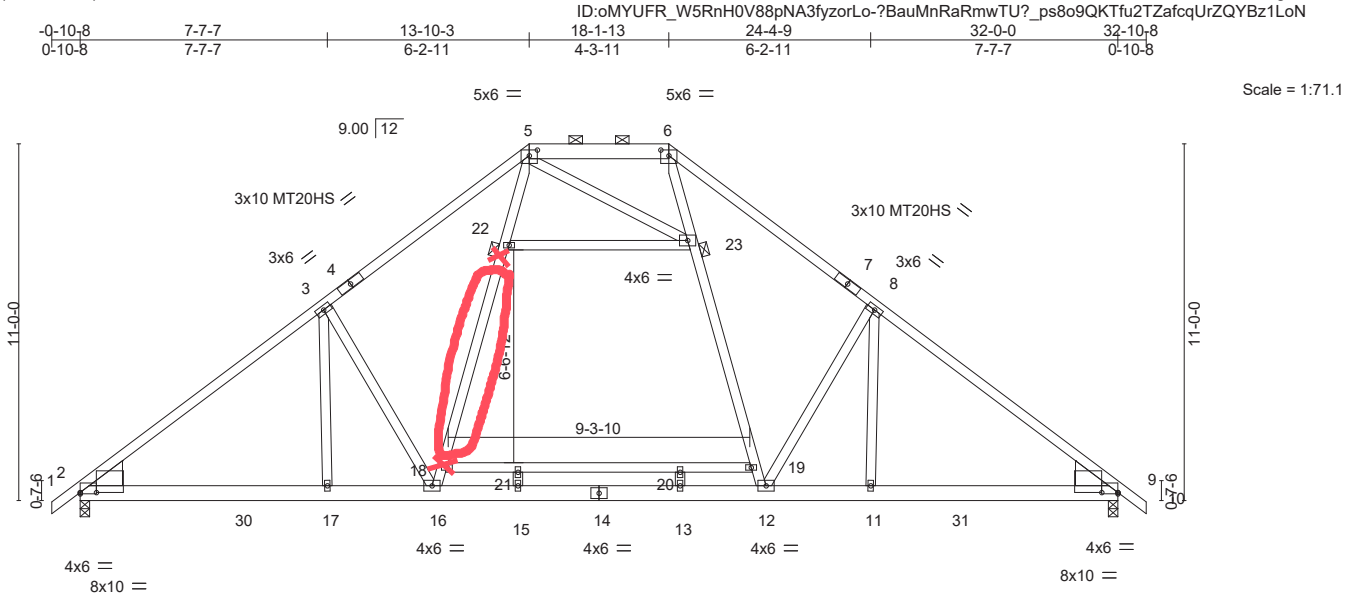

Plate Offsets (X,Y)-- [2:0-6-0,0-0-0], [2:0-0-0,0-0-8], [5:0-3-0,0-2-2], [6:0-3-0,0-2-2], [9:0-0-0,0-0-8], [9:0-6-0,0-0-0]

LOADING (psf)		SPACING- 2-6-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	0.25	16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.22	13-15	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 247 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
5-6: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
5-16,6-12,18-19: 2x4 SP No.2
WEDGE
Left: 2x10 SP No.2 , Right: 2x10 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-8 oc purlins, except
2-0-0 oc purlins (5-7-10 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 7-7-5 oc bracing.
JOINTS 1 Brace at Jt(s): 22, 23

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=-613(LC 10)
Max Uplift 2=-702(LC 12), 9=-702(LC 13)
Max Grav 2=1666(LC 1), 9=1666(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2396/1200, 3-5=-2283/1329, 5-6=-1659/1090, 6-8=-2283/1329, 8-9=-2396/1200
BOT CHORD 2-17=-797/1900, 16-17=-799/1905, 15-16=-250/1188, 13-15=-250/1188, 12-13=-250/1188, 11-12=-653/1720, 9-11=-653/1718
WEBS 3-16=-944/840, 16-18=-469/1010, 18-22=-463/1018, 5-22=-462/1014, 6-23=-461/1014, 19-23=-463/1017, 12-19=-469/1010, 8-12=-944/841, 3-17=-124/363, 8-11=-127/365, 5-23=-298/299

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 2x4 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 2=702, 9=702.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

June 30,2022

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H, Southport (A_3), A, Lot 69, OAKMON
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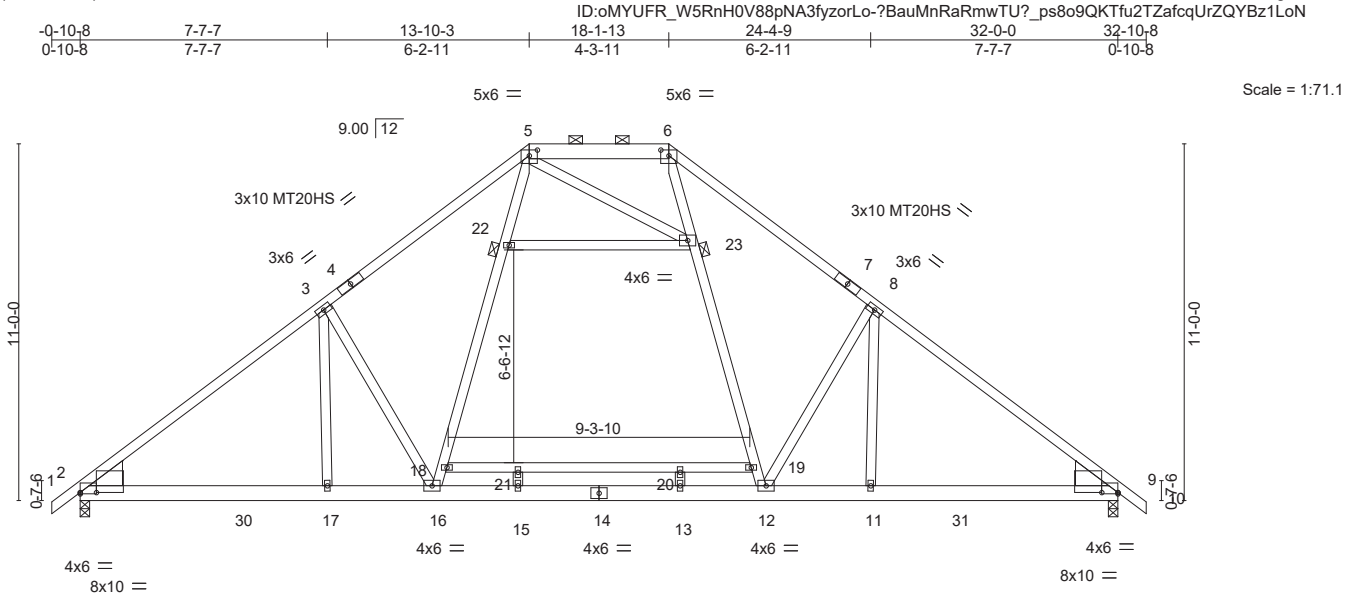

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