

UPLIFT REACTION(S) :

Support	C&C Wind	Main Wind	Non-Wind
1	-425 lb	-316 lb	
3		-5 lb	
6	-322 lb	-230 lb	-79 lb
7	-385 lb	-236 lb	-2 lb
10	-83 lb	-68 lb	-97 lb
11	-295 lb	-214 lb	-91 lb
14	-80 lb	-71 lb	
16	-398 lb	-293 lb	

Type	ID	SECTION	Fy (ksi)	Joints
TC	1	20TC20	50	
BC	1	20TC20	50	
WEB	1	20TC20	50	

20 psf bottom chord live load NOT required on this truss, per IBC/IRC requirements for attics with limited storage.

THIS DESIGN IS THE COMPOSITE RESULT OF MULTIPLE LOAD CASES.  
 Loaded for 10 PSF non-concurrent BCLL.  
 Loaded for 200 lb non-concurrent moving BCLL.  
 Mark all interior bearing locations.  
 Install interior support(s) before erection.  
 This truss is designed using the ASCE7-16 Wind Specification  
 Bldg Enclosed = Yes,  
 Truss Location = End Zone  
 Exp Category = B  
 Bldg Length = 60.00 ft, Bldg Width = 25.00 ft  
 Mean roof height = 11.75 ft, mph = 160  
 Occupancy Category II, Wind Dead Load = 7.20 psf  
 Designed as Main Wind Force Resisting System  
 - Low-rise and Components and Cladding  
 Tributary Area = 36 sqft  
 Uplifts based on elevation at or above 0 ft

This design based on chord bracing applied per the following schedule:

	max o.c.	from	to
TC	12.00"	-2-0-0	20-0-0
BC	12.00"	0-0-0	18-0-0

Galvanization: G60

REACTIONS

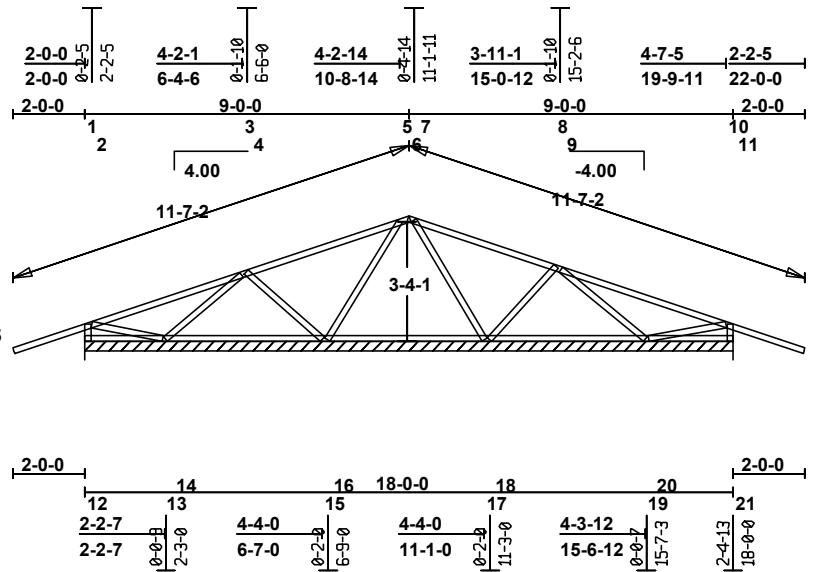
Brg	Reac	Horiz	Brg	Reac	Horiz
1	468	0	9	212	0
2	163	0	10	339	-184
3	201	185	11	369	325
4	210	-8	12	204	0
5	187	0	13	193	0
6	401	-440	14	382	-126
7	614	368	15	189	9
8	202	0	16	437	0

BRG	X-LOC	REACT	SIZE
1	0-1-12	468	3.50"
2	1-1-4	163	3.50"
3	2-2-7	201	3.50"
4	3-8-0	210	3.50"
5	5-1-8	187	3.50"
6	6-7-0	401	3.50"
7	6-9-0	614	3.50"
8	8-2-5	202	3.50"
9	9-7-11	212	3.50"
10	11-1-0	339	3.50"
11	11-3-0	369	3.50"
12	12-8-4	204	3.50"
13	14-1-8	193	3.50"
14	15-6-12	382	3.50"
15	16-9-6	189	3.50"
16	17-10-4	437	3.50"

TC	FORCE	AXL	BND	CSI	ID	SCRWS
OL-1	65	0.01	0.67	0.67	1	
1-2	141	0.02	0.63	0.63	1	
2-3	290	0.05	0.63	0.65	1	
3-4	108	0.02	0.71	0.71	1	
4-5	573	0.07	0.86	0.92	1	
5-6	94	0.01	0.18	0.18	1	
6-7	160	0.03	0.06	0.09	1	
7-8	352	0.03	0.76	0.77	1	
8-9	101	0.00	0.76	0.76	1	
9-10	438	0.07	0.71	0.75	1	
10-11	133	0.02	0.63	0.63	1	
11-OR	65	0.01	0.67	0.67	1	

BC	FORCE	AXL	BND	CSI	ID	SCRWS
12-13	0	0.00	0.07	0.07	1	
13-14	-167	0.03	0.06	0.09	1	
14-15	0	0.00	0.09	0.09	1	
15-16	0	0.00	0.10	0.10	1	
16-17	0	0.00	0.10	0.10	1	
17-18	0	0.00	0.10	0.11	1	
18-19	0	0.00	0.09	0.09	1	
19-20	-98	0.01	0.01	0.11	1	
20-21	9	0.00	0.09	0.09	1	

WEB	FORCE	CSI	ID	SCRWS
1-12	-459	0.09	1	
2-13	-194	0.07	1	
3-14	-242	0.16	1	
4-15	-585	0.38	1	
5-16	-703	0.81	1	
7-17	-360	0.42	1	
8-18	-480	0.30	1	
9-19	-476	0.37	1	
10-20	-327	0.15	1	
11-21	-427	0.08	1	



DEFLECTION LOC. ALLOW. LC

Vert TL:	-0.11"	(L/999)	9-10	L/240	40
Vert LL:	-0.10"	(L/999)	9-10	L/360	40
Horz TL:	0.01"				

Cantilever

Vert TL:	-0.13"	(L/181)	OL-1	L/90	1
Vert LL:	-0.11"	(L/225)	OL-1	L/120	1

==== Joint Locations =====

1	0-0-0	12	0-0-0
2	0-2-5	13	2-2-7
3	4-4-6	14	2-3-0
4	4-6-0	15	6-7-0
5	8-8-14	16	6-9-0
6	9-0-0	17	11-1-0
7	9-1-11	18	11-3-0
8	13-0-12	19	15-6-12
9	13-2-6	20	15-7-3
10	17-9-11	21	18-0-0
11	18-0-0		

Each connection requires 3/8" diameter proprietary bolt supplied by NUCONSTEEL OVER CONTINUOUS SUPPORT  
 SCRWS = The required number of double-sided #14 screws at each end of the truss member: SP = Spacer supplied by NUCONSTEEL  
 Scale: 3/16" = 1'



**WARNING** Read all notes on this sheet and verify all design parameters.  
 Truss design on this sheet is only valid with NUTRUS sections and is for an individual building component, not a truss system. Bracing shown on this drawing is not erection bracing, wind bracing, portal bracing or similar bracing which is part of the building design and which must be considered by the building designer. Bracing shown is lateral bracing of truss members only. Any additional bracing, temporary and/or permanent, is the responsibility of the truss erector and/or the building designer. The Professional Engineer's seal indicates only that the truss assembly shown on this sheet meets the acceptable design criteria for the loads, loading condition, truss configuration and spans specified.

Designer:		WO: C11118_Trusses
Dsgn Chk:		
Engg Chk:		
Cutting :		
TC Live	42.00 psf	Design Spec: AISI S100-2012
TC Dead	10.00 psf	Buildg Spec: IBC-2018
BC Live	0.00 psf	
BC Dead	10.00 psf	
TOTAL	62.00 psf	Date: 11/23/2022@ 16:46:42 Seqn S8.1.0a - 6271