Job Name: **Truss ID: C11116** **Qty: 1** **SPACING: 2- 0- 0** **PLY: 1** **WEIGHT: 46.85**

BRG	X-LOC	REACT	SIZE
1	0- 1-12	516	3.50"
2	1-11- 5	271	3.50"
3	3-10-10	220	3.50"
4	5-10- 0	433	3.50"
5	6- 0- 0	502	3.50"
6	7-11- 0	210	3.50"
7	9- 9-15	388	3.50"
8	10- 0- 0	487	3.50"
9	11-11-11	211	3.50"
10	13-11- 6	230	3.50"
11	15-10- 4	521	3.50"

TC	FORCE	AXL	BND	CSI	ID	SCRWS
OL-1	65	0.00	0.69	0.69	1	
1-2	169	0.03	0.69	0.70	1	
2-3	316	0.05	0.52	0.55	1	
3-4	69	0.01	0.54	0.54	1	
4-5	450	0.05	0.63	0.68	1	
5-6	91	0.00	0.14	0.14	1	
6-7	114	0.02	0.04	0.06	1	
7-8	349	0.03	0.69	0.71	1	
8-9	140	0.01	0.58	0.59	1	
9-10	324	0.05	0.52	0.55	1	
10-11	169	0.03	0.69	0.70	1	
11-OR	65	0.00	0.69	0.69	1	

BC	FORCE	AXL	BND	CSI	ID	SCRWS
12-13	0	0.00	0.17	0.17	1	
13-14	-216	0.03	0.10	0.13	1	
14-15	17	0.00	0.12	0.12	1	
15-16	0	0.00	0.14	0.14	1	
16-17	0	0.00	0.14	0.14	1	
17-18	0	0.00	0.15	0.15	1	
18-19	0	0.00	0.15	0.15	1	
19-20	-182	0.04	0.13	0.16	1	
20-21	-21	0.00	0.19	0.19	1	

WEB	FORCE	CSI	ID	SCRWS
1-12	513	0.09	1	
2-13	-160	0.05	1	
3-14	-312	0.17	1	
4-15	-531	0.28	1	
5-16	-564	0.53	1	
7-17	-385	0.37	1	
8-18	-510	0.28	1	
9-19	-209	0.12	1	
10-20	-166	0.06	1	
11-21	516	0.09	1	

UPLIFT REACTION(S) :

Support	C&C Wind	Main Wind	Non-Wind
1	-508 lb	-344 lb	
2			-38 lb
4	-327 lb	-214 lb	-142 lb
5	-318 lb	-184 lb	-99 lb
7	-130 lb	-87 lb	-187 lb
8	-312 lb	-206 lb	-86 lb
10		-11 lb	
11	-512 lb	-344 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 = 11.58 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 = 32 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	18- 0- 0
BC	12.00"	0- 0- 0	16- 0- 0

Galvanization: G60

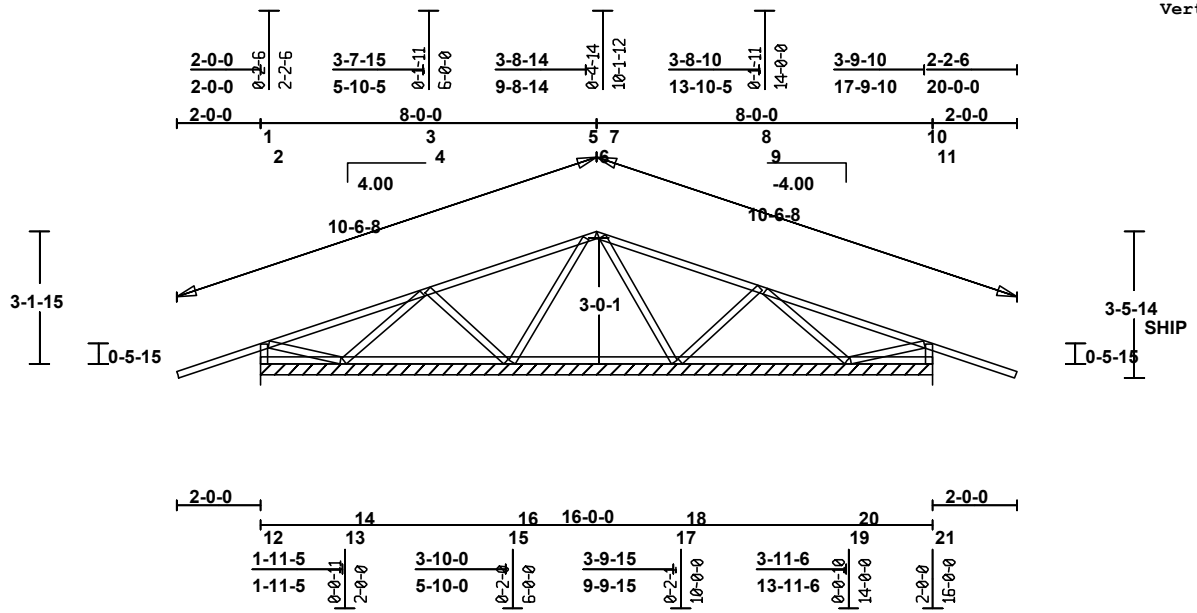
REACTIONS

Brg	Reac	Horiz	Brg	Reac	Horiz
1	516	0	7	388	-192
2	271	132	8	487	376
3	220	17	9	211	0
4	433	-394	10	230	-164
5	502	290	11	521	-21
6	210	0	0		

	DEFLECTION	LOC.	ALLOW.	LC
Vert TL:	-0.07" (L/999)	7-8	L/240	40
Vert LL:	-0.06" (L/999)	7-8	L/360	40
Horz TL:	0.01"			
Cantilever				
Vert TL:	-0.15" (L/158)	OL-1	L/ 90	1
Vert LL:	-0.12" (L/195)	OL-1	L/120	1

===== Joint Locations =====

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



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

OVER CONTINUOUS SUPPORT

Scale: 7/32" = 1'

NUTRUSS™
A NUCONSTEEL Product

WARNING *Read all notes on this sheet and verify all design parameters.*
Truss design on this sheet is only valid with NUTRUSS 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:
Dsgn Chk:
Engg Chk:
Cutting :

TC Live	42.00 psf
TC Dead	10.00 psf
BC Live	0.00 psf
BC Dead	10.00 psf
TOTAL	62.00 psf

WO: C11116_Trusses

Design Spec: AISI S100-2012
Buildg Spec: IBC-2018

Date: 11/23/2022@ 16:39:42
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