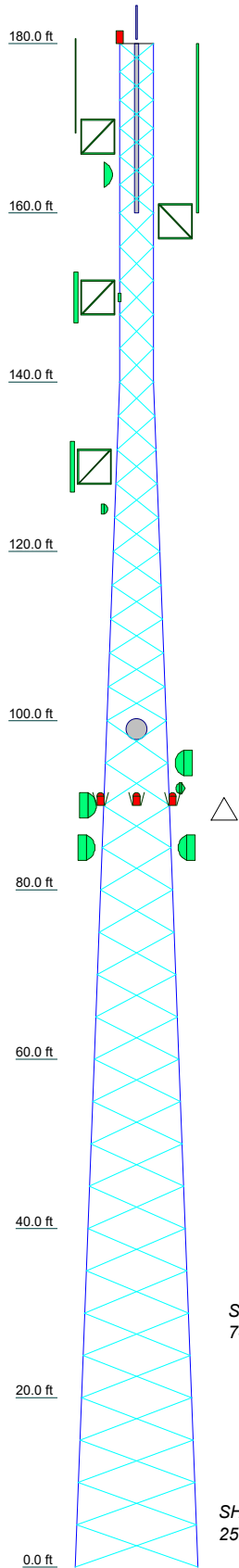


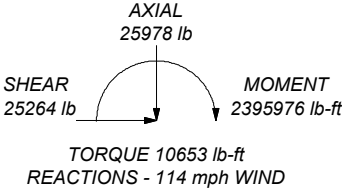
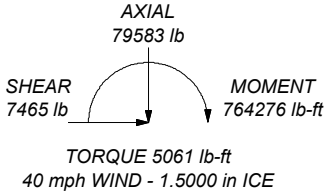
Section	T1	T2	T3	T4	T5	T6	T7	T8	T9	
Legs	SR 1 1/2	SR 1 3/4	SR 2	SR 2 1/4	SR 2 1/2	SR 2 3/4		SR 3		
Leg Grade										
Diagonals										
Diagonal Grade										
Top Girts	L2x2x1/8									
Face Width (ft)	4			5.5	7	8.5	10	11.5	13	14.5
# Panels @ (ft)	6 @ 3.33333		15 @ 4				20 @ 5			
Weight (lb)	758.5	847.9	1044.3	1207.6	1504.9	1762.8	2286.0	2681.2	2774.6	14977.9



ALL REACTIONS
ARE FACTORED

MAX. CORNER REACTIONS AT BASE:
DOWN: 199350 lb
SHEAR: 15318 lb

UPLIFT: -172902 lb
SHEAR: 13559 lb



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
5' Lightning Rod	180	Sinclair SE414-SWBPALDF(D00)	130
Flash Beacon Lighting	180	PA16.4-16.8-2-3HD	128
Amphenol BCD-87010-NE-25	170	Dish SOYU-Extendair	125
6' Standoff Mount	169	18" Double Dish	99
3' Standard Dish	164.5	PA7.4-8.2-2-6HD	98
PA7.4-8.2-2-6HD	162	VHLP3-11W/A (Future)	95
BMR12 (Future)	160	1.33' Standard Dish	92
BMR12 (Future)	160	L-810 LED Marker Light	90
6' Heavy Bogner Mount (Future)	159	L-810 LED Marker Light	90
6' Heavy Bogner Mount (Future)	159	VHLP3-11W/A	90
Comblent CP00732	150	L-810 LED Marker Light	90
6' Standoff Mount	150	VHLP3-11W/A	85
Sinclair SE414-SWBPALDF(D00)	150	VHLP3-11W/A (Future)	85
6' Standoff Mount	130	PA16.4-16.8-2-3HD	65

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A529-50	50 ksi	65 ksi

TOWER DESIGN NOTES

- Tower is located in Kane County, Illinois.
- Tower designed for Exposure C to the TIA-222-H Standard.
- Tower designed for a 114 mph basic wind in accordance with the TIA-222-H Standard.
- Tower is also designed for a 40 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
- Deflections are based upon a 60 mph wind.
- Tower Risk Category III.
- Topographic Category 1 with Crest Height of 0.00 ft
- Weld together tower sections have flange connections.
- Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC Specifications.
- Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
- Welds are fabricated with ER-70S-6 electrodes.
- TOWER RATING: 98.8%

Custom Tower, LLC		Job: 180' SST Church Road	
402 Facile Road Scott, LA 70583 Phone: (337) 873-9113 FAX: (337) 873-9184		Project: City of Aurora	
Client: L3Harris	Drawn by: Ricky Guidry	App'd:	
Code: TIA-222-H	Date: 06/21/24	Scale: NTS	
Path:		Dwg No. E-1	