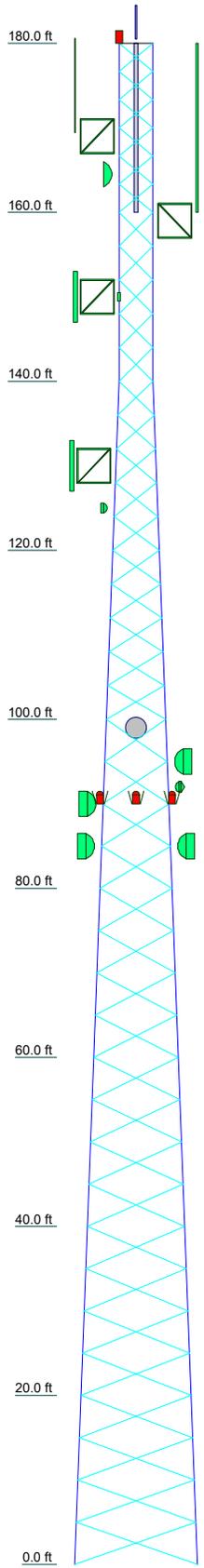


| | | | | | | | | | |
|-----------------|-------------|----------|--------|----------|----------|----------|--------|--------|---------|
| Section | T1 | T2 | T3 | T4 | T5 | T6 | T7 | T8 | T9 |
| Legs | SR 1 1/2 | SR 1 3/4 | SR 2 | SR 2 1/4 | SR 2 1/2 | SR 2 3/4 | SR 3 | SR 3 | |
| Leg Grade | A572-50 | | | | | | | | |
| Diagonals | L2x2x1/8 | | | | | | | | |
| Diagonal Grade | A529-50 | | | | | | | | |
| Top Chits | N.A. | | | | | | | | |
| Face Width (ft) | 4 | 5.5 | 7 | 8.5 | 10 | 11.5 | 13 | 14.5 | |
| # Panels @ (ft) | 6 @ 3.33333 | 8@7.9 | 15 @ 4 | 12@7.6 | 20 @ 5 | 20@5 | 20@5 | 20@5 | 20@5 |
| Weight (lb) | 758.5 | 847.9 | 1044.3 | 1207.6 | 1504.9 | 1762.8 | 2061.2 | 2774.6 | 14977.9 |



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

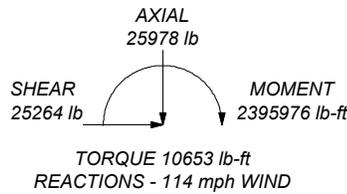
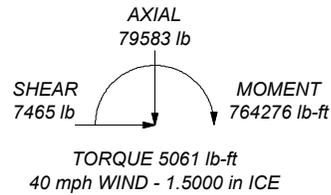
1. Tower is located in Kane County, Illinois.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 114 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 40 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness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

ALL REACTIONS
ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 199350 lb
SHEAR: 15318 lb

UPLIFT: -172902 lb
SHEAR: 13559 lb



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