

60.0 ft

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
DB812KE-Y	58 - 38	DB812KE-Y	30 - 28
DB812KE-Y	58 - 38	DB812KE-Y	30 - 28
(2) SEC-55V-90-16	35 - 33		

MATERIAL STRENGTH

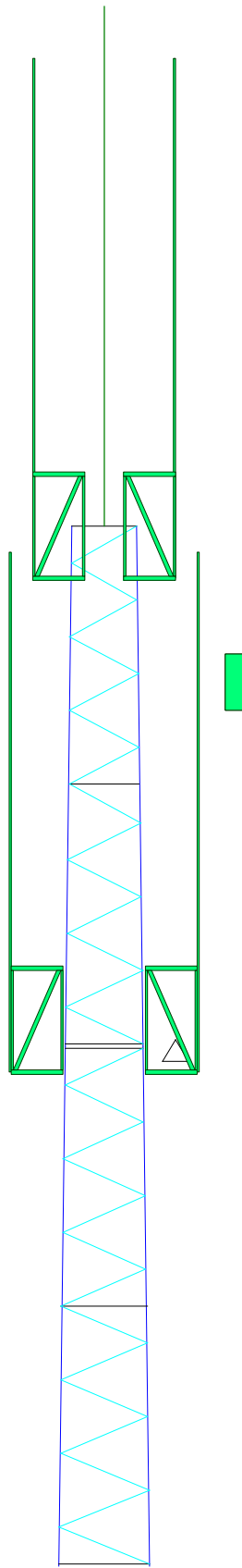
GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi			

TOWER DESIGN NOTES

1. Tower is located in Pierce County, Washington.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 85 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 30 mph basic wind with 0.25 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class II.
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.

Section	T1	
Legs	SR 1 1/2	
Leg Grade	A572-50	
Diagonals	SR 3/4	
Diagonal Grade	A572-50	
Top Girts	SR 3/4	
Mid Girts	SR 3/4	
Bottom Girts	SR 3/4	
Face Width (ft)	3.5	2.5
# Panels @ (ft)	14 @ 1.41667	14 @ 1.42262
Weight (lb)	1222.2	693.5

40.0 ft
20.0 ft
0.0 ft



Great Plains Towers		Job: GPT 40 ft (42" Tapered to 30")	
126 6th Street West		Project: GPT 100' Self Support	
West Fargo, ND 58078		Client: BNSF	Drawn by: Lance Straabe
Phone: (701) 282-2236		Code: TIA-222-G	Date: 09/22/10
FAX: (701) 282-2148		Scale: NTS	
		Path: C:\Documents and Settings\Lance\Desktop\GPT 40' SS Light (K) BNSF.er	Dwg No. E-1