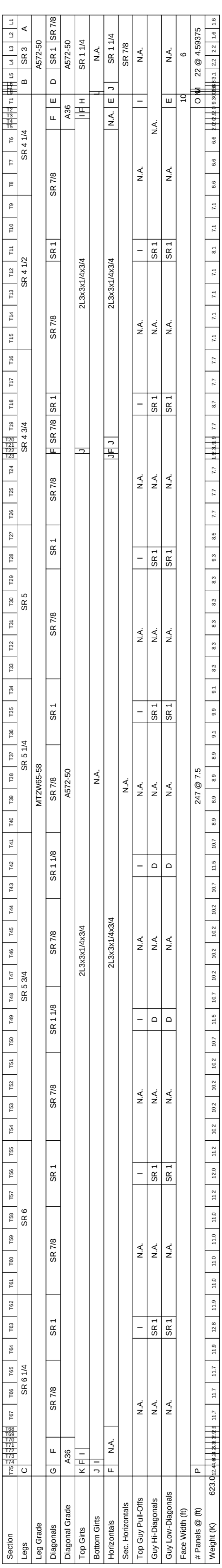

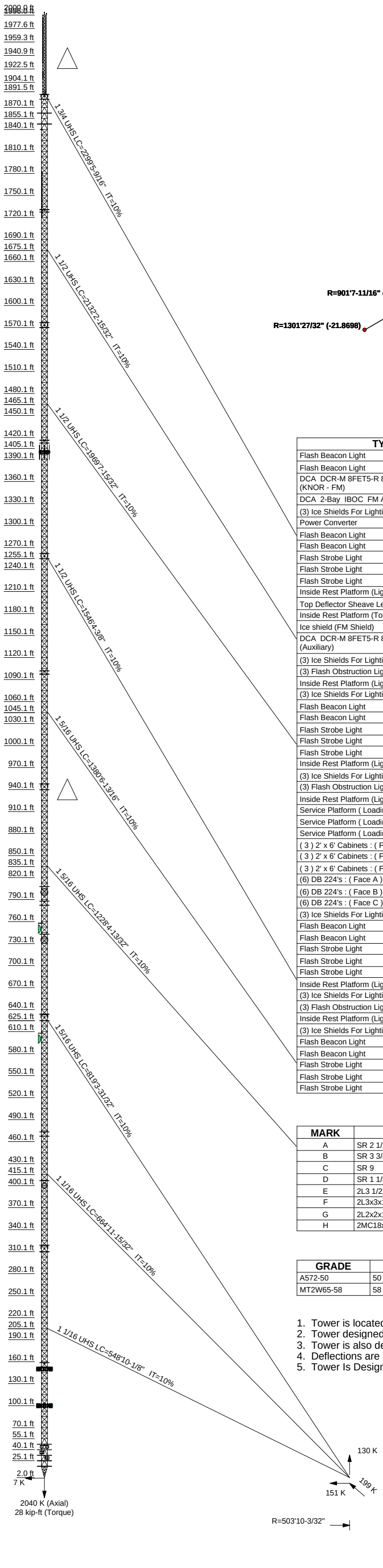

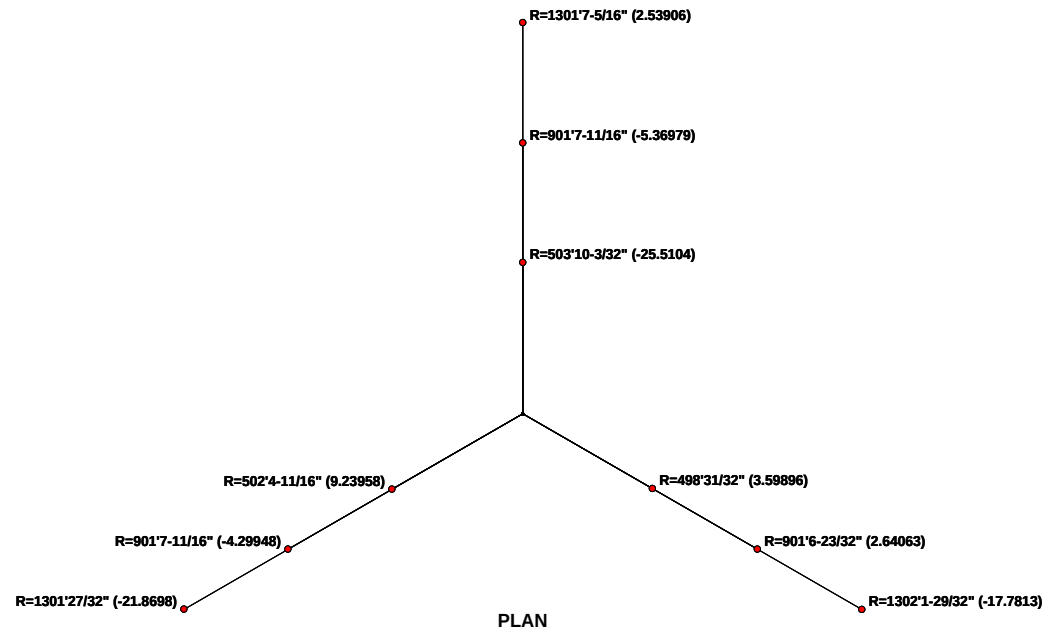

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Flash Beacon Light	1998.5	Inside Rest Platform (Light Level)	940.052
Flash Beacon Light	1997	Ice shield (Dish Shield)	808
DCA DCR-M 8FET5-R 8-Bay FM Antenna (KNOR - FM)	1993 - 1930	12 FT Grid Dish (Azimuth = 185 Deg. TN)	800
		(3) Ice Shields For Lighting Equipment	788
DCA 2-Bay IBOC FM Antenna	1920 - 1910	(3) Flash Obstruction Light Markers	786
(3) Ice Shields For Lighting Equipment	1888	Inside Rest Platform (Light Level)	782.552
Power Converter	1886	Ice shield (Dish Shield)	758
Flash Beacon Light	1886	12 FT Grid Dish (Azimuth = 128 Deg. TN)	750
Flash Beacon Light	1886	Ice shield (Dish Shield)	743
Flash Strobe Light	1884	12 FT Grid Dish (Azimuth = 185 Deg. TN)	735
Flash Strobe Light	1884	(3) Ice Shields For Lighting Equipment	634
Flash Strobe Light	1884	Flash Beacon Light	631
Inside Rest Platform (Light Level)	1881.41	Flash Beacon Light	631
Top Deflector Sheave Level	1862.55	Flash Strobe Light	629
Inside Rest Platform (Top Elevator Landing)	1847.55	Flash Strobe Light	629
Ice shield (FM Shield)	1840.05	Flash Strobe Light	629
DCA DCR-M 8FET5-R 8-Bay FM Antenna (Auxiliary)	1783.5 - 1720.5	Inside Rest Platform (Light Level)	625.052
		Ice shield (Dish Shield)	608
(3) Ice Shields For Lighting Equipment	1731	12 FT Grid Dish (Azimuth = 128 Deg. TN)	600
(3) Flash Obstruction Light Markers	1729	(3) Ice Shields For Lighting Equipment	473.5
Inside Rest Platform (Light Level)	1727.55	(3) Flash Obstruction Light Markers	471.5
(3) Ice Shields For Lighting Equipment	1577	Inside Rest Platform (Light Level)	467.552
Flash Beacon Light	1574	Ice shield (Dish Shield)	407
Flash Beacon Light	1574	10 FT Grid Dish (Azimuth = 155 Deg. TN)	400
Flash Strobe Light	1572	(3) Ice Shields For Lighting Equipment	319
Flash Strobe Light	1572	Flash Beacon Light	316
Flash Strobe Light	1572	Flash Beacon Light	316
Inside Rest Platform (Light Level)	1570.05	Flash Strobe Light	314
(3) Ice Shields For Lighting Equipment	1416.5	Flash Strobe Light	314
(3) Flash Obstruction Light Markers	1414.5	Flash Strobe Light	314
Inside Rest Platform (Light Level)	1412.55	Inside Rest Platform (Light Level)	310.052
Service Platform (Loading Face A)	1400	(3) Ice Shields For Lighting Equipment	159
Service Platform (Loading Face B)	1400	(3) Flash Obstruction Light Markers	157
Service Platform (Loading Face C)	1400	Inside Rest Platform (Light Level)	153.052
(3) 2' x 6' Cabinets : (Face A)	1400	(4) typical panels	150
(3) 2' x 6' Cabinets : (Face B)	1400	(4) typical panels	150
(3) 2' x 6' Cabinets : (Face C)	1400	13' gate mounts	150
(6) DB 224's : (Face A)	1400	13' gate mounts	150
(6) DB 224's : (Face B)	1400	(4) typical panels	150
(6) DB 224's : (Face C)	1400	13' gate mounts	150
(3) Ice Shields For Lighting Equipment	1262	13' gate mounts	100
Flash Beacon Light	1259	(4) typical panels	100
Flash Beacon Light	1259	(4) typical panels	100
Flash Strobe Light	1257	13' gate mounts	100
Flash Strobe Light	1257	(4) typical panels	100
Flash Strobe Light	1257	13' gate mounts	100
Inside Rest Platform (Light Level)	1255.05	Elevator Access Platform (Face B)	47.5521
(3) Ice Shields For Lighting Equipment	1102	Stair Access (Face C)	47.5521 - 40.0521
(3) Flash Obstruction Light Markers	1100	Inside Rest Platform (Bottom Elevator Landing)	47.5521
Inside Rest Platform (Light Level)	1097.55	Car Buffer Level	40.0521
(3) Ice Shields For Lighting Equipment	948	Stair Access (Face A)	40.0521 - 32.5521
Flash Beacon Light	945	Stair Access (Face B)	32.5521 - 25.0521
Flash Beacon Light	945	Machine Level	32.5521
Flash Strobe Light	943	Plan At Tension Weights	25.0521
Flash Strobe Light	943	Stairway Access Platform (Face C)	25.0521
Flash Strobe Light	943	Tension Weight Buffer Level	17.5521

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	SR 2 1/2	I	2MC8x18.7x0.75
B	SR 3 3/4	J	N.A.
C	SR 9	K	2L5x5x3/8x3/4
D	SR 1 1/8	L	SR 1 1/4
E	2L3 1/2x3 1/2x5/16x3/4	M	1 @ 3.46875
F	2L3x3x1/4x3/4	N	1 @ 3.06708
G	2L2x2x1/4x3/4	O	3 @ 5.67708
H	2MC18x45.8x0.75	P	4 @ 3.5

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi
MT2W65-58	58 ksi	65 ksi			

TOWER DESIGN NOTES

1. Tower is located in Cooke County, Texas.
2. Tower designed for a 70 mph basic wind in accordance with the TIA/EIA-222-F Standard.
3. Tower is also designed for a 61 mph basic wind with 0.50 in ice.
4. Deflections are based upon a 50 mph wind.
5. Tower Is Designed For Climbing Ladder and/or Elevator.

Tower Innovations
2855 Hwy. 261
Newburgh, IN. 47630
Phone: (812) 853-0595
FAX: (812) 853-6652

Job: G2715 - 17125r7			
Project: Dallas, TX.			
Client:	Drawn by: T.I. Engineering Dept.	App'd:	
Code: TIA/EIA-222-F	Date: 12/19/06	Scale: NTS	
Path: C:\0 - Current Design Runs\PDF\06 - Tall Bolted Guyed Tower - Freestanding Mast FM - G2715 - 17125r7.eri		Dwg No. E-1	