



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

January 6, 2012

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597

RE: **TS-VER-014-111207** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located 123 Pine Orchard Road, Branford, Connecticut.

Dear Attorney Baldwin:

At a public meeting held January 5, 2012, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures with the following conditions:

- Any deviation from the proposed installation as specified in the original tower share request and supporting materials with the Council shall render this decision invalid;
- Any material changes to the proposed installation as specified in the original tower share request and supporting materials filed with the Council shall require an explicit request for modification to the Council pursuant to Connecticut General Statutes § 16-50aa, including all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65;
- Not less than 45 days after completion of the proposed installation, the Council shall be notified in writing that the installation has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

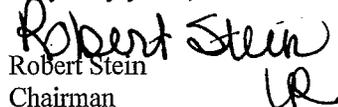
This decision is under the exclusive jurisdiction of the Council. This facility has been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction. Please be advised that the validity of this action shall expire one year from the date of this letter.

The proposed shared use is to be implemented as specified in your letter dated December 6, 2011, including the placement of all necessary equipment and shelters within the tower compound.

Thank you for your attention and cooperation.

Very truly yours,


Robert Stein
Chairman

RS/CDM/laf

c: The Honorable Anthony "Unk" DaRos, First Selectman, Town of Branford
Diana Ross, Inland Wetland Enforcement Officer, Town of Branford
Laura Magaraci, Zoning Enforcement Officer, Town of Branford
Florida Tower Partners, LLC

General Power Density

Site Name: Branford West, CT
 Cumulative Power Density

| Operator | Operating Frequency (MHz) | Number of Trans. | ERP Per Trans. (watts) | Total ERP (watts) | Distance to Target (feet) | Calculated Power Density (mW/cm ²) | Maximum Permissible Exposure (mW/cm ²) | Factor of MPE (%) |
|--------------|---------------------------|------------------|------------------------|-------------------|---------------------------|--|--|-------------------|
| VZW PCS | 1970 | 11 | 378 | 4158 | 102 | 0.1437 | 1.0 | 14.37% |
| VZW Cellular | 869 | 9 | 260 | 2340 | 102 | 0.0809 | 0.5793333333 | 13.96% |
| VZW AWS | 2145 | 1 | 670 | 670 | 102 | 0.0232 | 1.0 | 2.32% |
| VZW 700 | 698 | 2 | 770 | 1540 | 102 | 0.0532 | 0.4653333333 | 11.44% |

Total Percentage of Maximum Permissible Exposure

42.09%

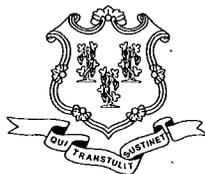
*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.



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December 8, 2011

The Honorable Anthony "Unk" DaRos
First Selectman
Town of Branford
Town Hall
1019 Main Street
P. O. Box 150
Branford, CT 06405-0150

RE: **TS-VER-014-111207** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located 123 Pine Orchard Road, Branford, Connecticut.

Dear Mr. DaRos:

The Connecticut Siting Council (Council) received this request for tower sharing, pursuant to Connecticut General Statutes § 16-50aa.

The Council will consider this item at the next meeting scheduled for January 5, 2012, at 1:00 p.m. in Hearing Room Two, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the council by January 4, 2012.

Thank you for your cooperation and consideration.

Very truly yours,

Linda Roberts
Executive Director

LR/jbw

Enclosure: Notice of Tower Sharing

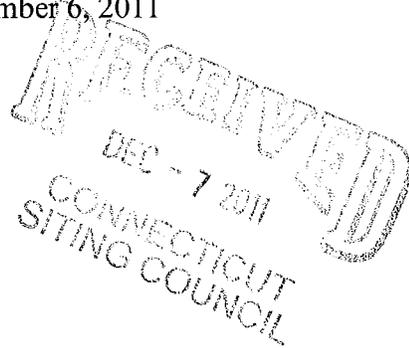
c: Diana Ross, Inland Wetland Enforcement Officer, Town of Branford
Laura Magaraci, Zoning Enforcement Officer, Town of Branford

ROBINSON & COLE

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

December 6, 2011



Ms. Linda Roberts
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: Request of Cellco Partnership d/b/a Verizon Wireless for an Order to Approve the Shared Use of an Existing Tower at 123 Pine Orchard Road, Branford, Connecticut

Dear Ms. Roberts:

Pursuant to Connecticut General Statutes §16-50aa, as amended, Cellco Partnership d/b/a Verizon Wireless (“Cellco”) hereby requests an order from the Connecticut Siting Council (“Council”) to approve the shared use by Cellco of an existing telecommunications tower, owned by Florida Tower Partners, LLC (“FTP”), at 123 Pine Orchard Road in Branford, Connecticut. Cellco requests that the Council find that the proposed shared use of the FTP tower satisfies the criteria of Connecticut General Statutes § 16-50aa and issue an order approving the proposed shared use. A copy of this letter is being sent to Branford First Selectman, Anthony DaRos and Malavasi Investments, LLC, the owner of the property on which the tower is located.



Law Offices

BOSTON

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www.rc.com

Background

The FTP tower was approved by the Council in Docket No. 386 for the applicant, T-Mobile Northeast LLC. The Docket No. 386 Certificate was subsequently transferred to FTP.

The existing FTP facility consists of a 123-foot monopole tower located inside a 75' x 75' facility compound. The tower is currently shared by T-Mobile, with antennas at the 122-foot level and AT&T with antennas at the 112-foot level. Equipment associated with the T-Mobile and AT&T antennas is located within the facility compound.

Linda Roberts
December 6, 2011
Page 2

Cellco is licensed by the Federal Communications Commission (“FCC”) to provide wireless services throughout the State of Connecticut. Cellco and FTP have agreed to the proposed shared use of the Pine Orchard Road tower pursuant to mutually acceptable terms and conditions, and FTP has authorized Cellco to act on its behalf to apply for all necessary local, state and federal permits, approvals, and authorizations which may be required for the shared use of this facility.

Cellco proposes to install twelve (12) panel-type antennas at the 102-foot level on the FTP tower. Equipment associated with Cellco’s antennas and a propane-fueled back-up generator will be located inside a 12’ x 24’ shelter. Cellco’s equipment shelter and a 1,000 gallon propane tank will be located within the facility compound. See Project Plans located behind Tab 1.

C.G.S. § 16-50aa(c)(1) provides that, upon written request for approval of a proposed shared use, “if the council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns, the council shall issue an order approving such shared use.” Cellco respectfully submits that the shared use of the tower satisfies these criteria.

A. Technical Feasibility. The existing tower is structurally capable of supporting Cellco’s antennas. The proposed shared use of this tower therefore is technically feasible. A Structural Analysis Report verifying the structural integrity of the existing tower, including T-Mobile, AT&T and Cellco’s antennas and related equipment is attached to this filing behind Tab 2.

B. Legal Feasibility. Under C.G.S. § 16-50aa, the Council has been authorized to issue orders approving the proposed shared use of an existing tower facility such as the FTP facility in Branford. This authority complements the Council’s prior-existing authority under C.G.S. § 16-50p to issue orders approving the construction of new towers that are subject to the Council’s jurisdiction. In addition, § 16-50x(a) directs the Council to “give such consideration to other state laws and municipal regulations as it shall deem appropriate” in ruling on requests for the shared use of existing tower facilities. Under the statutory authority vested in the Council, an order by the Council approving the requested shared use would permit the Applicant to obtain a building permit for the proposed installations.

C. Environmental Feasibility. The proposed shared use of the FTP tower would have a minimal environmental effect, for the following reasons:



Linda Roberts
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Page 3

1. The proposed installations would have an insignificant incremental visual impact and would not cause any significant change or alteration in the physical or environmental characteristics of the existing site. The proposed installations will require a slight extension of the fenced compound. All improvements, however, will remain within the limits of the existing leased premises.
2. The proposed installations would not increase the noise levels at the existing facility by six decibels or more.
3. Operation of Cellco antennas at this site would not exceed the total radio frequency (RF) exposure limits adopted by the Federal Communications Commission. The “worst-case” exposure calculated for operation of Cellco’s antennas (i.e., calculated at the base of the tower), would be 17.27% of the standard). See Power Density Calculation Table behind Tab 3.
4. Under ordinary operating conditions, the proposed installation, would not require any water or sanitary facilities; would not generate air emissions or discharges to water or sanitary facilities; and would not, during normal operating condition; nor generate any air emissions; discharges to area water bodies. After construction is complete the proposed installations would not generate any traffic other than periodic (monthly) maintenance visits.

The proposed use of this Pine Orchard Road facility would therefore have a minimal environmental effect, and is environmentally feasible.

D. Economic Feasibility. As previously mentioned, FTP and Cellco have entered into a lease to share the tower on mutually agreeable terms. The proposed tower sharing is therefore economically feasible.

E. Public Safety Concerns. As stated above, the tower is structurally capable of supporting the existing T-Mobile and AT&T, as well as Cellco’s proposed antennas and related equipment. Cellco is not aware of any public safety concerns relative to the proposed sharing of the existing tower. In fact, the provision of new or



Linda Roberts
December 6, 2011
Page 4

improved phone service through shared use of the existing tower is expected to enhance the safety and welfare of area residents.

Conclusion

For the reasons discussed above, the proposed shared use of the existing FTP tower at 123 Pine Orchard Road in Branford satisfies the criteria stated in C.G.S. § 16-50aa and advances the General Assembly's and the Siting Council's goal of preventing the unnecessary proliferation of towers in Connecticut. The Applicant therefore requests that the Council issue an order approving the proposed shared use of the FTP tower.

Thank you for your consideration of this matter.

Very truly yours,



Kenneth C. Baldwin

Enclosures

Copy to:

Anthony DaRos, Branford First Selectman
Malavasi Investments, LLC
Sandy M. Carter



Cellco Partnership

d.b.a. **verizon** wireless

WIRELESS COMMUNICATIONS FACILITY
BRANFORD WEST
123 PINE ORCHARD ROAD,
BRANFORD, CT 06405

SITE DIRECTIONS

FROM: 99 EAST RIVER DRIVE, EAST HARTFORD, CONNECTICUT **TO:** 123 PINE ORCHARD ROAD, BRANFORD, CT 06405

1. Depart E River Dr toward Darin St.
2. Take ramp left for I-84 East / US-6 East toward Norwich 1.21 mi
3. At exit 55, take ramp right for CT-2 / New London. 0.2 mi
4. At exit 50, take ramp right for CT-3 / Glastonbury 3.5 mi
5. Take ramp left for I-85 North toward New Britain 2.6 mi
6. At exit 54, take ramp right for Cedar St toward Branford. 2.2 mi
7. Turn right onto Cedar St 0.1 mi
8. Turn right onto Cedar St 0.2 mi
9. Keep straight onto Cedar St 0.5 mi
10. Turn left onto CT-146 / Main St. 391 ft
11. Keep right to stay on CT-146 / S Main St. 0.5 mi
12. Turn right to stay on Pine Orchard Rd. 0.1 mi
13. Turn right to stay on Pine Orchard Rd. 0.4 mi
14. Arrive at 123 Pine Orchard Rd, Branford, CT 06405-3939

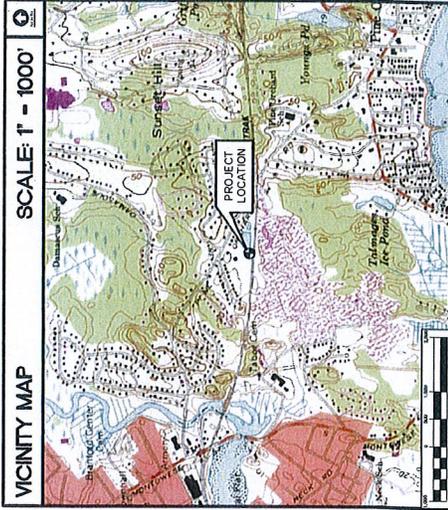
Routes: 47.5 miles, 51 min, 56 min

GENERAL NOTES

1. PROPOSED ANTENNA LOCATIONS AND HEIGHTS PROVIDED BY CELCO PARTNERSHIP.

PROJECT SCOPE

1. THE PROPOSED SCOPE OF WORK GENERALLY INCLUDES THE INSTALLATION OF A CONCRETE FOUNDATION WITHIN THE EXISTING WIRELESS COMMUNICATIONS LEASE AREA.
2. A TOTAL OF TWELVE (12) DIRECTIONAL PANEL ANTENNAS ARE PROPOSED TO BE MOUNTED ON THE EXISTING 123' TALL MONOPOLE TOWER, AT A CENTERLINE ELEVATION OF ±102'.
3. ELECTRIC AND TELCO UTILITIES SHALL BE ROUTED UNDERGROUND TO THE PROPOSED EQUIPMENT SHELTER FROM AN EXISTING UTILITY BACKBOARD LOCATED WITHIN TO THE EXISTING LEASE AREA.



PROJECT SUMMARY

SITE NAME: BRANFORD WEST
SITE ADDRESS: 123 PINE ORCHARD ROAD, BRANFORD, CT 06405
CELCO PARTNERSHIP/TENANT: CELCO PARTNERSHIP d.b.a. VERIZON WIRELESS 95 N MAIN ST BRANFORD EAST HARTFORD, CT 06108
CONTACT PERSON: SANDY CARTER CELCO PARTNERSHIP d.b.a. VERIZON WIRELESS 95 N MAIN ST BRANFORD EAST HARTFORD, CT 06108
ENGINEER: CENTEK ENGINEERING, INC. 63--2 NORTH BRANFORD ROAD BRANFORD, CT 06405 (203) 488-0580
TOWER COORDINATES: LATITUDE 41°-16'-28.4" LONGITUDE 72°-47'-33.5" GROUND ELEVATION: 36± A.M.S.L.
 COORDINATES AND GROUND ELEVATIONS ARE REFERENCED FROM CONNECTICUT SITING COUNCIL DATABASE.

SHEET INDEX

| SHT. NO. | DESCRIPTION | REV. NO. |
|----------|-----------------------------|----------|
| T-1 | TITLE SHEET | 1 |
| C-1 | COMPOUND PLAN AND ELEVATION | 1 |

| REV. | DATE | DRAWN BY | CHK'D BY | DESCRIPTION |
|------|----------|----------|----------|------------------------------|
| 0 | 07/19/11 | FLO | DMD | ISSUED FOR CSC-CLIENT REVIEW |
| 1 | 07/25/11 | FLO | DMD | ISSUED FOR CSC |

Cellco Partnership
 d.b.a. Verizon Wireless
 95 N Main St
 Branford, CT 06405
 www.CellcoPartnership.com

Cellco Partnership d/b/a Verizon Wireless
 WIRELESS COMMUNICATIONS FACILITY
BRANFORD WEST
123 PINE ORCHARD ROAD
BRANFORD, CT 06405

DATE: 07/12/11
 SCALE: AS NOTED
 JOB NO. 10047
TITLE SHEET
T-1
 Sheet No. 1 of 2



MORRISON HERSHFIELD

Morrison Hershfield Corporation
66 Perimeter Center East, Ste. 600
Atlanta, GA. 30346
(770) 379-8500

Date: August 3, 2011

Mr. Curtis Miller
Florida Tower Partners
1001 3rd Avenue W., Suite 420
Bradenton, FL 34205

Subject: Structural Analysis Report

Site Number: CT1012
Site Name: Branford 2

Carrier: Verizon Wireless
Carrier Site Number: 188923
Carrier Site Name: Branford West

Site Address: 123 Pine Orchard Rd, Branford, New Haven County, CT 06405
Tower Description: 123 Foot – Monopole

Morrison Hershfield Project Number: FTP-039R1 / 6110010

Dear Mr. Miller,

Morrison Hershfield Corporation has carried out a structural analysis of the above referenced structure for the existing and proposed antenna and equipment noted in Table 2. The analysis has been performed in accordance with the TIA/EIA-222-F *Structural Standards for Steel Antenna Towers and Antenna Supporting Structures* using a fastest mile wind speed of 95 mph and 1/2" radial ice, meeting the requirements of the 2005 Connecticut State Building Code with 2009 Amendment (IBC 2003) for New Haven County. This analysis is subject to the assumptions noted.

Our analysis demonstrates that the existing tower and foundation **ARE in conformance** with the requirements of the above noted standards under the effects of loading described in Table 2.

We at *Morrison Hershfield Corporation* appreciate the opportunity of providing our continuing professional services to you and Florida Tower Partners. If you have any questions or need further assistance on this or any other projects please give us a call.

Sincerely,
Morrison Hershfield Corporation

G. Lance Cooke, P.E. (CT License No. PEN.002133)
Senior Engineer



Prepared by Edward Rex, EIT.

INTRODUCTION

This tower is a 123 ft monopole designed by Sabre Tower & Poles in 2010. The tower was originally designed for a wind speed of 115 mph with 1/2" radial ice per TIA/EIA-222-F.

The structural analysis was performed for this tower in accordance with the requirements of 2005 Connecticut State Building Code with 2009 Amendment and the TIA/EIA-222-F Structural Standards for Steel Antenna Towers and Antenna Supporting Structures using a fastest mile wind speed of 95 mph with no radial ice, 82 mph with 1/2 inch radial ice thickness and 50 mph under service loads.

The structural analysis was based on the following documentation:

Table 1 – Documentation

| Document | Description | Source |
|-----------------------------|---|------------------------|
| Tower Manufacturer Drawings | Sabre Towers & Poles, Job No. 11-05276, dated 06/02/2010 | Florida Tower Partners |
| Foundation Drawings | Sabre Towers & Poles, Job No. 11-05276, dated 06/02/2010 | Florida Tower Partners |
| Geotechnical Report | Terracon Consultants, Inc, Project no. J2105131, dated 04/02/2010 | Florida Tower Partners |

1.0 ANALYSIS LOADING

The existing and proposed antennas, transmission lines, and other equipment considered in this analysis were provided by the client and are noted in Table 2.

Table 2 – Antenna Loads

| Elev. (ft) | QTY. | Antenna/Appurtenance Description | Carrier | QTY. | TX-Lines | Notes |
|----------------------------------|------|--|------------------|------|----------|-------|
| ***PROPOSED*** | | | | | | |
| 102 | 3 | Antel BXA-70063-6CF Panel Antennas | Verizon Wireless | 12 | 1-5/8" | 1 |
| | 6 | Andrew DB846F65ZAXY Panel Antennas | | | | |
| | 3 | Ryma MG D3-800T0 Panel Antennas | | | | |
| | 6 | RFS FD9R6004/2C-3L Diplexers | | | | |
| | 3 | T-Arm | | | | |
| ***EXISTING / RESERVED*** | | | | | | |
| 122 | 9 | RFS APX16DWV-16DWV Panel Antennas | T-Mobile | 18 | 1-5/8" | 1 |
| | 9 | RFS 11309 TMA's | | | | |
| | 1 | Low Profile Platform | | | | |
| 112.75 | 12 | Powerwave P65-16-XLH-RR Panel Antennas | AT&T | 18 | 1-5/8" | 1, 2 |
| | 12 | Powerwave TT08-19DB111-01 TMA's | | | | |
| | 3 | T-Arm | | | | |

- Notes: 1. Transmission lines are considered to be installed inside the monopole shaft.
 2. Equipment is reserved and has been considered as existing in this analysis.



2.0 ANALYSIS PROCEDURE

RISATower Version 5.4.2.0, a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is attached at the end of this report.

3.0 ASSUMPTIONS

The analysis provided by Morrison Hershfield is based on the theoretical capacity of the structure and is not a condition assessment of the tower. Morrison Hershfield has not performed an engineering inspection of the tower and the analysis was completed based on information supplied by the customer. Morrison Hershfield has not made any independent determination of the accuracy of the information provided.

- 1) Tower and structures were built in accordance with the manufacturer's specifications and the applicable ANSI/TIA/EIA standard.
- 2) The tower and structures have been maintained in accordance with the manufacturer's specification.
- 3) The tower is assumed to be in good condition and capable of supporting its full design capacity.
- 4) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Table 2.
- 5) All existing/proposed antennas and antenna mounts are assumed to be adequate for the existing/proposed loads. Analysis of these antennas and antenna mounts is considered to be outside of the scope of this analysis. Morrison Hershfield has not performed an analysis of the existing/proposed antennas or antenna mounts.

If any assumptions are not valid or have been made in error, this analysis is invalid. Morrison Hershfield Corporation should be notified to determine the effect on the structural integrity of the tower.

4.0 SUMMARY OF RESULTS

The following tables summarize the location and utilized percentage of available capacity for each component of the tower. With consideration to the appropriate safety factors, 100% represents the full capacity of the component. Percentages below 100% indicate available capacity and conformance of the component. Percentages above 100% indicate an overstressed situation requiring structural modification to ensure conformance with the applicable codes and standards.

Based on our analysis results, the **tower and foundation are within capacity** to support the loads under the current loading scenario (Table 2).

Table 3 – Tower Section Capacity

| Section No. | Elevation ft | Component Type | Size | % Capacity | Pass Fail |
|-------------|---------------|----------------|------------------------|-----------------|------------------|
| L1 | 123 - 81.75 | Pole | TP31.31x21x0.1875 | 87.0 | Pass |
| L2 | 81.75 - 48.25 | Pole | TP39.31x29.9352x0.3125 | 77.1 | Pass |
| L3 | 48.25 - 0 | Pole | TP50.75x37.435x0.375 | 76.8 | Pass |
| | | | | Summary | |
| | | | | Pole (L1) | 87.0 Pass |
| | | | | RATING = | 87.0 Pass |



Table 4 – Additional Component Capacity

| <i>Component</i> | <i>Capacity</i> | <i>Pass/Fail</i> |
|------------------|-----------------|------------------|
| Anchor Bolt | 65.4 | Pass |
| Base Plate | 63.6 | Pass |

Table 5 – Foundation Capacity

| <i>Load</i> | <i>Original Design</i> | <i>Current Analysis</i> | <i>Pass / Fail</i> |
|-----------------------------|------------------------|-------------------------|--------------------|
| Overturning Moment (kip-ft) | 3210 | 2452 | Pass |
| Axial (kip) | 31.3 | 25 | |
| Shear (kip) | 36.1 | 27 | |

The foundation capacity is based upon a comparison of the reaction calculated in the current analysis to those used in the original foundation design.

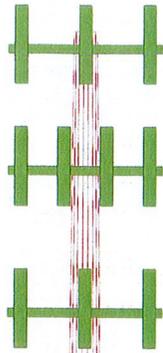
5.0 RECOMMENDATIONS

1. All assumptions made in this analysis should be carefully reviewed. Morrison Hershfield should be contacted for any discrepancies so that a full assessment may be made to validate the results of this analysis.

ATTACHMENTS: Tower Profile, Program Output, Coax Sketch



123.0 ft



DESIGNED APPURTENANCE LOADING

| TYPE | ELEVATION | TYPE | ELEVATION |
|---|-----------|--|-----------|
| (3) RFS APX16DWW-16DWW panel antenna (T-Mobile) | 122 | (4) Powerwave TT19-08BP111-001 TMA (ATI) | 112.75 |
| (3) RFS APX16DWW-16DWW panel antenna (T-Mobile) | 122 | (4) Powerwave TT19-08BP111-001 TMA (ATI) | 112.75 |
| (3) RFS APX16DWW-16DWW panel antenna (T-Mobile) | 122 | T-Arm (ATI) | 112.75 |
| (3) RFS 11309 TMA (T-Mobile) | 122 | T-Arm (ATI) | 112.75 |
| (3) RFS 11309 TMA (T-Mobile) | 122 | (3) Antel BXA-70063/6CF panel antenna (Verizon Wireless) | 102 |
| (3) RFS 11309 TMA (T-Mobile) | 122 | (6) Andrew DB846F65ZAXY panel antenna (Verizon Wireless) | 102 |
| Low Profile Platform (T-Mobile) | 122 | (3) Rymosa MG D3-800TX panel antenna (Verizon Wireless) | 102 |
| (4) Powerwave P65-16-XLH-RR panel antenna (ATI) | 112.75 | (6) RFS FD9R6004/2C-3L Diplexer (Verizon Wireless) | 102 |
| (4) Powerwave P65-16-XLH-RR panel antenna (ATI) | 112.75 | T-Arm (Verizon Wireless) | 102 |
| (4) Powerwave P65-16-XLH-RR panel antenna (ATI) | 112.75 | T-Arm (Verizon Wireless) | 102 |
| (4) Powerwave TT19-08BP111-001 TMA (ATI) | 112.75 | T-Arm (Verizon Wireless) | 102 |

MATERIAL STRENGTH

| GRADE | Fy | Fu | GRADE | Fy | Fu |
|---------|--------|--------|-------|----|----|
| A572-65 | 65 ksi | 80 ksi | | | |

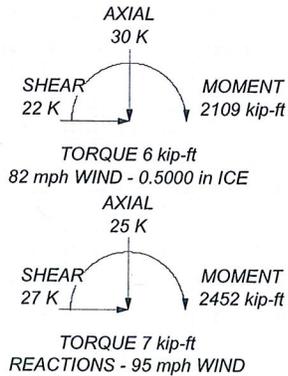
TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for a 95 mph basic wind in accordance with the TIA/EIA-222-F Standard.
3. Tower is also designed for a 82 mph basic wind with 0.50 in ice.
4. Deflections are based upon a 50 mph wind.
5. TOWER RATING: 87%

81.8 ft

48.3 ft

0.0 ft



| Section | Length (ft) | Number of Sides | Thickness (in) | Socket Length (ft) | Top Dia (in) | Bot Dia (in) | Grade | Weight (K) |
|---------|-------------|-----------------|----------------|--------------------|--------------|--------------|---------|------------|
| 1 | 41.25 | 18 | 0.1875 | 4.00 | 21.0000 | 31.3100 | | 2.2 |
| 2 | 37.50 | 18 | 0.3125 | 5.00 | 29.9352 | 39.3100 | A572-65 | 4.3 |
| 3 | 53.25 | 18 | 0.3750 | 37.4350 | 50.7500 | | | 9.4 |
| | | | | | | | | 15.9 |

| | | | |
|-------------------------------------|--|-------------------------------------|----------------|
| Morrison Hershfield | | Job: FTP-039R1 / 61100010 | |
| 66 Perimeter Center East, Suite 600 | | Project: Branford 2 / CT1012 | |
| Atlanta, GA | | Client: Florida Tower Partners | Drawn by: EMR |
| Phone: 770-379-8545 | | Code: TIA/EIA-222-F | Date: 08/01/11 |
| FAX: 770-379-8501 | | Path: | Scale: NTS |
| | | | Dwg No. E-1 |

| | | |
|--|---|----------------------------------|
| RISATower Morrison Hershfield 66 Perimeter Center East, Suite 600 Atlanta, GA Phone: 770-379-8545 FAX: 770-379-8501 | Job FTP-039R1 / 61100010 | Page 1 of 5 |
| | Project Branford 2 / CT1012 | Date 13:54:11 08/01/11 |
| | Client Florida Tower Partners | Designed by EMR |

Tower Input Data

There is a pole section.

This tower is designed using the TIA/EIA-222-F standard.

The following design criteria apply:

Tower is located in New Haven County, Connecticut.

Basic wind speed of 95 mph.

Nominal ice thickness of 0.5000 in.

Ice density of 56 pcf.

A wind speed of 82 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 50 mph.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.333.

Local bending stresses due to climbing loads, feedline supports, and appurtenance mounts are not considered.

Tapered Pole Section Geometry

| Section | Elevation ft | Section Length ft | Splice Length ft | Number of Sides | Top Diameter in | Bottom Diameter in | Wall Thickness in | Bend Radius in | Pole Grade |
|---------|-----------------|-------------------------|------------------------|-----------------------|-----------------------|--------------------------|-------------------------|----------------------|---------------------|
| L1 | 123.00-81.75 | 41.25 | 4.00 | 18 | 21.0000 | 31.3100 | 0.1875 | 0.7500 | A572-65 (65 ksi) |
| L2 | 81.75-48.25 | 37.50 | 5.00 | 18 | 29.9352 | 39.3100 | 0.3125 | 1.2500 | A572-65 (65 ksi) |
| L3 | 48.25-0.00 | 53.25 | | 18 | 37.4350 | 50.7500 | 0.3750 | 1.5000 | A572-65 (65 ksi) |

Feed Line/Linear Appurtenances - Entered As Area

| Description | Face or Leg | Allow Shield | Component Type | Placement ft | Total Number | | C _A A _A ft ² /ft | Weight plf |
|------------------------------------|-------------------|-----------------|-------------------|-----------------|-----------------|--------------------|--|---------------|
| 1-5/8" coax (T-Mobile) ***** | C | No | Inside Pole | 122.00 - 6.00 | 18 | No Ice 1/2" Ice | 0.00 0.00 | 0.82 0.82 |
| 1-5/8" coax (AT&T) ***** | C | No | Inside Pole | 112.75 - 6.00 | 18 | No Ice 1/2" Ice | 0.00 0.00 | 0.82 0.82 |
| 1-5/8" coax (Verizon) | C | No | Inside Pole | 102.00 - 6.00 | 12 | No Ice 1/2" Ice | 0.00 0.00 | 0.82 0.82 |

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Discrete Tower Loads

| Description | Face or Leg | Offset Type | Offsets: | | Azimuth Adjustment | Placement | C _{AA} Front | C _{AA} Side | Weight | |
|--|-------------|-------------|----------|---------|--------------------|-----------|-----------------------|----------------------|--------|------|
| | | | Horz | Lateral | | | | | | |
| | | | ft | ft | ° | ft | ft ² | ft ² | K | |
| (3) RFS APX16DWV-16DWV panel antenna (T-Mobile) | A | From Face | 3.00 | 0.00 | 0.0000 | 122.00 | No Ice | 7.15 | 3.34 | 0.04 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 7.62 | 3.99 | 0.09 |
| | | | 0.00 | | | | | | | |
| (3) RFS APX16DWV-16DWV panel antenna (T-Mobile) | B | From Face | 3.00 | 0.00 | 0.0000 | 122.00 | No Ice | 7.15 | 3.34 | 0.04 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 7.62 | 3.99 | 0.09 |
| | | | 0.00 | | | | | | | |
| (3) RFS APX16DWV-16DWV panel antenna (T-Mobile) | C | From Face | 3.00 | 0.00 | 0.0000 | 122.00 | No Ice | 7.15 | 3.34 | 0.04 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 7.62 | 3.99 | 0.09 |
| | | | 0.00 | | | | | | | |
| (3) RFS 11309 TMA (T-Mobile) | A | From Face | 3.00 | 0.00 | 0.0000 | 122.00 | No Ice | 0.71 | 0.41 | 0.01 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 0.90 | 0.58 | 0.02 |
| | | | 0.00 | | | | | | | |
| (3) RFS 11309 TMA (T-Mobile) | B | From Face | 3.00 | 0.00 | 0.0000 | 122.00 | No Ice | 0.71 | 0.41 | 0.01 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 0.90 | 0.58 | 0.02 |
| | | | 0.00 | | | | | | | |
| (3) RFS 11309 TMA (T-Mobile) | C | From Face | 3.00 | 0.00 | 0.0000 | 122.00 | No Ice | 0.71 | 0.41 | 0.01 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 0.90 | 0.58 | 0.02 |
| | | | 0.00 | | | | | | | |
| Low Profile Platform (T-Mobile) ***** | C | None | | | 0.0000 | 122.00 | No Ice | 32.35 | 32.35 | 0.93 |
| | | | | | | | 1/2" Ice | 45.67 | 45.67 | 1.19 |
| (4) Powerwave P65-16-XLH-RR panel antenna (AT&T) | A | From Face | 3.00 | 0.00 | 0.0000 | 112.75 | No Ice | 8.40 | 6.13 | 0.09 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 8.95 | 7.07 | 0.15 |
| | | | 0.00 | | | | | | | |
| (4) Powerwave P65-16-XLH-RR panel antenna (AT&T) | B | From Face | 3.00 | 0.00 | 0.0000 | 112.75 | No Ice | 8.40 | 6.13 | 0.09 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 8.95 | 7.07 | 0.15 |
| | | | 0.00 | | | | | | | |
| (4) Powerwave P65-16-XLH-RR panel antenna (AT&T) | C | From Face | 3.00 | 0.00 | 0.0000 | 112.75 | No Ice | 8.40 | 6.13 | 0.09 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 8.95 | 7.07 | 0.15 |
| | | | 0.00 | | | | | | | |
| (4) Powerwave TT19-08BP111-001 TMA (AT&T) | A | From Face | 3.00 | 0.00 | 0.0000 | 112.75 | No Ice | 0.64 | 0.52 | 0.02 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 0.75 | 0.62 | 0.02 |
| | | | 0.00 | | | | | | | |
| (4) Powerwave TT19-08BP111-001 TMA (AT&T) | B | From Face | 3.00 | 0.00 | 0.0000 | 112.75 | No Ice | 0.64 | 0.52 | 0.02 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 0.75 | 0.62 | 0.02 |
| | | | 0.00 | | | | | | | |
| (4) Powerwave TT19-08BP111-001 TMA (AT&T) | C | From Face | 3.00 | 0.00 | 0.0000 | 112.75 | No Ice | 0.64 | 0.52 | 0.02 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 0.75 | 0.62 | 0.02 |
| | | | 0.00 | | | | | | | |
| T-Arm (AT&T) | A | From Face | 3.00 | 0.00 | 0.0000 | 112.75 | No Ice | 7.28 | 3.02 | 0.26 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 9.52 | 4.20 | 0.33 |
| | | | 0.00 | | | | | | | |
| T-Arm (AT&T) | B | From Face | 3.00 | 0.00 | 0.0000 | 112.75 | No Ice | 7.28 | 3.02 | 0.26 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 9.52 | 4.20 | 0.33 |
| | | | 0.00 | | | | | | | |
| T-Arm (AT&T) | C | From Face | 3.00 | 0.00 | 0.0000 | 112.75 | No Ice | 7.28 | 3.02 | 0.26 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 9.52 | 4.20 | 0.33 |
| | | | 0.00 | | | | | | | |

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| Description | Face or Leg | Offset Type | Offsets: | | Azimuth Adjustment | Placement | C _A A _A Front | C _A A _A Side | Weight | |
|--|-------------|-------------|----------|---------|--------------------|-----------|-------------------------------------|------------------------------------|--------------|--------------|
| | | | Horz | Lateral | | | | | | |
| | | | ft | ft | ° | ft | ft ² | ft ² | K | |
| ***** | | | | | | | | | | |
| (3) Antel BXA-70063/6CF panel antenna (Verizon Wireless) | A | From Face | 3.00 | 0.00 | 0.0000 | 102.00 | No Ice 1/2" Ice | 7.75 8.29 | 5.18 6.11 | 0.04 0.10 |
| (6) Andrew DB846F65ZAXY panel antenna (Verizon Wireless) | B | From Face | 3.00 | 0.00 | 0.0000 | 102.00 | No Ice 1/2" Ice | 7.03 7.54 | 7.58 8.54 | 0.04 0.11 |
| (3) Rymza MG D3-800TX panel antenna (Verizon Wireless) | C | From Face | 3.00 | 0.00 | 0.0000 | 102.00 | No Ice 1/2" Ice | 3.48 3.85 | 3.32 3.96 | 0.04 0.07 |
| (6) RFS FD9R6004/2C-3L Diplexer (Verizon Wireless) | C | From Face | 3.00 | 0.00 | 0.0000 | 102.00 | No Ice 1/2" Ice | 0.37 0.45 | 0.08 0.14 | 0.01 0.01 |
| T-Arm (Verizon Wireless) | A | From Face | 2.00 | 0.00 | 0.0000 | 102.00 | No Ice 1/2" Ice | 7.28 9.52 | 3.02 4.20 | 0.26 0.33 |
| T-Arm (Verizon Wireless) | B | From Face | 2.00 | 0.00 | 0.0000 | 102.00 | No Ice 1/2" Ice | 7.28 9.52 | 3.02 4.20 | 0.26 0.33 |
| T-Arm (Verizon Wireless) | C | From Face | 2.00 | 0.00 | 0.0000 | 102.00 | No Ice 1/2" Ice | 7.28 9.52 | 3.02 4.20 | 0.26 0.33 |

Load Combinations

| Comb. No. | Description |
|-----------|----------------------------|
| 1 | Dead Only |
| 2 | Dead+Wind 0 deg - No Ice |
| 3 | Dead+Wind 30 deg - No Ice |
| 4 | Dead+Wind 60 deg - No Ice |
| 5 | Dead+Wind 90 deg - No Ice |
| 6 | Dead+Wind 120 deg - No Ice |
| 7 | Dead+Wind 150 deg - No Ice |
| 8 | Dead+Wind 180 deg - No Ice |
| 9 | Dead+Wind 210 deg - No Ice |
| 10 | Dead+Wind 240 deg - No Ice |
| 11 | Dead+Wind 270 deg - No Ice |
| 12 | Dead+Wind 300 deg - No Ice |
| 13 | Dead+Wind 330 deg - No Ice |
| 14 | Dead+Ice+Temp |
| 15 | Dead+Wind 0 deg+Ice+Temp |
| 16 | Dead+Wind 30 deg+Ice+Temp |
| 17 | Dead+Wind 60 deg+Ice+Temp |
| 18 | Dead+Wind 90 deg+Ice+Temp |
| 19 | Dead+Wind 120 deg+Ice+Temp |
| 20 | Dead+Wind 150 deg+Ice+Temp |
| 21 | Dead+Wind 180 deg+Ice+Temp |
| 22 | Dead+Wind 210 deg+Ice+Temp |
| 23 | Dead+Wind 240 deg+Ice+Temp |
| 24 | Dead+Wind 270 deg+Ice+Temp |
| 25 | Dead+Wind 300 deg+Ice+Temp |
| 26 | Dead+Wind 330 deg+Ice+Temp |
| 27 | Dead+Wind 0 deg - Service |

| | | | | |
|--|---------|------------------------|-------------|-------------------|
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| Comb. No. | Description |
|-----------|-----------------------------|
| 28 | Dead+Wind 30 deg - Service |
| 29 | Dead+Wind 60 deg - Service |
| 30 | Dead+Wind 90 deg - Service |
| 31 | Dead+Wind 120 deg - Service |
| 32 | Dead+Wind 150 deg - Service |
| 33 | Dead+Wind 180 deg - Service |
| 34 | Dead+Wind 210 deg - Service |
| 35 | Dead+Wind 240 deg - Service |
| 36 | Dead+Wind 270 deg - Service |
| 37 | Dead+Wind 300 deg - Service |
| 38 | Dead+Wind 330 deg - Service |

Maximum Reactions

| Location | Condition | Gov. Load Comb. | Vertical K | Horizontal, X K | Horizontal, Z K |
|----------|---------------------|-----------------|------------|-----------------|-----------------|
| Pole | Max. Vert | 15 | 30.27 | 0.22 | 22.17 |
| | Max. H _x | 11 | 24.97 | 26.50 | 0.26 |
| | Max. H _z | 2 | 24.97 | 0.26 | 26.49 |
| | Max. M _x | 2 | 2428.96 | 0.26 | 26.49 |
| | Max. M _z | 5 | 2429.59 | -26.50 | -0.26 |
| | Max. Torsion | 7 | 7.11 | -13.47 | -23.07 |
| | Min. Vert | 1 | 24.97 | 0.00 | 0.00 |
| | Min. H _x | 5 | 24.97 | -26.50 | -0.26 |
| | Min. H _z | 8 | 24.97 | -0.26 | -26.49 |
| | Min. M _x | 8 | -2428.71 | -0.26 | -26.49 |
| | Min. M _z | 11 | -2428.71 | 26.50 | 0.26 |
| | Min. Torsion | 13 | | -7.10 | 13.47 |

Tower Mast Reaction Summary

| Load Combination | Vertical K | Shear _y K | Shear _z K | Overturning Moment, M _x kip-ft | Overturning Moment, M _z kip-ft | Torque kip-ft |
|----------------------------|------------|----------------------|----------------------|---|---|---------------|
| Dead Only | 24.97 | 0.00 | 0.00 | -0.12 | -0.43 | 0.00 |
| Dead+Wind 0 deg - No Ice | 24.97 | -0.26 | -26.49 | -2428.96 | 26.27 | 5.67 |
| Dead+Wind 30 deg - No Ice | 24.97 | 13.03 | -22.82 | -2090.26 | -1191.91 | 2.72 |
| Dead+Wind 60 deg - No Ice | 24.97 | 22.82 | -13.02 | -1191.45 | -2090.84 | -0.96 |
| Dead+Wind 90 deg - No Ice | 24.97 | 26.50 | 0.26 | 26.58 | -2429.59 | -4.38 |
| Dead+Wind 120 deg - No Ice | 24.97 | 23.08 | 13.47 | 1237.40 | -2117.44 | -6.63 |
| Dead+Wind 150 deg - No Ice | 24.97 | 13.47 | 23.07 | 2116.62 | -1238.08 | -7.11 |
| Dead+Wind 180 deg - No Ice | 24.97 | 0.26 | 26.49 | 2428.71 | -27.11 | -5.68 |
| Dead+Wind 210 deg - No Ice | 24.97 | -13.03 | 22.82 | 2089.99 | 1191.05 | -2.72 |
| Dead+Wind 240 deg - No Ice | 24.97 | -22.82 | 13.02 | 1191.20 | 2089.96 | 0.96 |
| Dead+Wind 270 deg - No Ice | 24.97 | -26.50 | -0.26 | -26.80 | 2428.71 | 4.39 |
| Dead+Wind 300 deg - No Ice | 24.97 | -23.08 | -13.47 | -1237.61 | 2116.59 | 6.63 |
| Dead+Wind 330 deg - No Ice | 24.97 | -13.47 | -23.07 | -2116.85 | 1237.25 | 7.10 |
| Dead+Ice+Temp | 30.27 | 0.00 | 0.00 | -0.83 | -1.24 | 0.00 |
| Dead+Wind 0 deg+Ice+Temp | 30.27 | -0.22 | -22.17 | -2091.38 | 21.78 | 4.67 |
| Dead+Wind 30 deg+Ice+Temp | 30.27 | 10.87 | -19.09 | -1799.81 | -1023.78 | 2.23 |
| Dead+Wind 60 deg+Ice+Temp | 30.27 | 19.05 | -10.90 | -1026.18 | -1795.36 | -0.80 |
| Dead+Wind 90 deg+Ice+Temp | 30.27 | 22.12 | 0.22 | 22.20 | -2086.18 | -3.62 |
| Dead+Wind 120 deg+Ice+Temp | 30.27 | 19.27 | 11.28 | 1064.37 | -1818.34 | -5.47 |
| Dead+Wind 150 deg+Ice+Temp | 30.27 | 11.25 | 19.31 | 1821.10 | -1063.65 | -5.86 |

| | | | | |
|--|---------|------------------------|-------------|-------------------|
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| Load Combination | Vertical K | Shear _x K | Shear _y K | Overturing Moment, M _x kip-ft | Overturing Moment, M _y kip-ft | Torque kip-ft |
|-----------------------------|---------------|-------------------------|-------------------------|--|--|------------------|
| Dead+Wind 180 deg+Ice+Temp | 30.27 | 0.22 | 22.17 | 2089.67 | -24.29 | -4.67 |
| Dead+Wind 210 deg+Ice+Temp | 30.27 | -10.87 | 19.09 | 1798.10 | 1021.25 | -2.23 |
| Dead+Wind 240 deg+Ice+Temp | 30.27 | -19.05 | 10.90 | 1024.48 | 1792.82 | 0.81 |
| Dead+Wind 270 deg+Ice+Temp | 30.27 | -22.12 | -0.22 | -23.88 | 2083.64 | 3.63 |
| Dead+Wind 300 deg+Ice+Temp | 30.27 | -19.27 | -11.28 | -1066.04 | 1815.82 | 5.48 |
| Dead+Wind 330 deg+Ice+Temp | 30.27 | -11.25 | -19.31 | -1822.79 | 1061.14 | 5.86 |
| Dead+Wind 0 deg - Service | 24.97 | -0.07 | -7.34 | -673.54 | 6.96 | 1.58 |
| Dead+Wind 30 deg - Service | 24.97 | 3.61 | -6.32 | -579.62 | -330.78 | 0.76 |
| Dead+Wind 60 deg - Service | 24.97 | 6.32 | -3.61 | -330.43 | -580.01 | -0.27 |
| Dead+Wind 90 deg - Service | 24.97 | 7.34 | 0.07 | 7.27 | -673.94 | -1.22 |
| Dead+Wind 120 deg - Service | 24.97 | 6.39 | 3.73 | 342.99 | -587.41 | -1.85 |
| Dead+Wind 150 deg - Service | 24.97 | 3.73 | 6.39 | 586.76 | -343.60 | -1.98 |
| Dead+Wind 180 deg - Service | 24.97 | 0.07 | 7.34 | 673.28 | -7.84 | -1.58 |
| Dead+Wind 210 deg - Service | 24.97 | -3.61 | 6.32 | 579.37 | 329.90 | -0.76 |
| Dead+Wind 240 deg - Service | 24.97 | -6.32 | 3.61 | 330.17 | 579.13 | 0.27 |
| Dead+Wind 270 deg - Service | 24.97 | -7.34 | -0.07 | -7.52 | 673.06 | 1.22 |
| Dead+Wind 300 deg - Service | 24.97 | -6.39 | -3.73 | -343.24 | 586.53 | 1.85 |
| Dead+Wind 330 deg - Service | 24.97 | -3.73 | -6.39 | -587.02 | 342.72 | 1.98 |

Section Capacity Table

| Section No. | Elevation ft | Component Type | Size | % Capacity | Pass Fail |
|-----------------|---------------|----------------|------------------------|-------------|-------------|
| L1 | 123 - 81.75 | Pole | TP31.31x21x0.1875 | 87.0 | Pass |
| L2 | 81.75 - 48.25 | Pole | TP39.31x29.9352x0.3125 | 77.1 | Pass |
| L3 | 48.25 - 0 | Pole | TP50.75x37.435x0.375 | 76.8 | Pass |
| Summary | | | | | |
| Pole (L1) | | | | 87.0 | Pass |
| RATING = | | | | 87.0 | Pass |

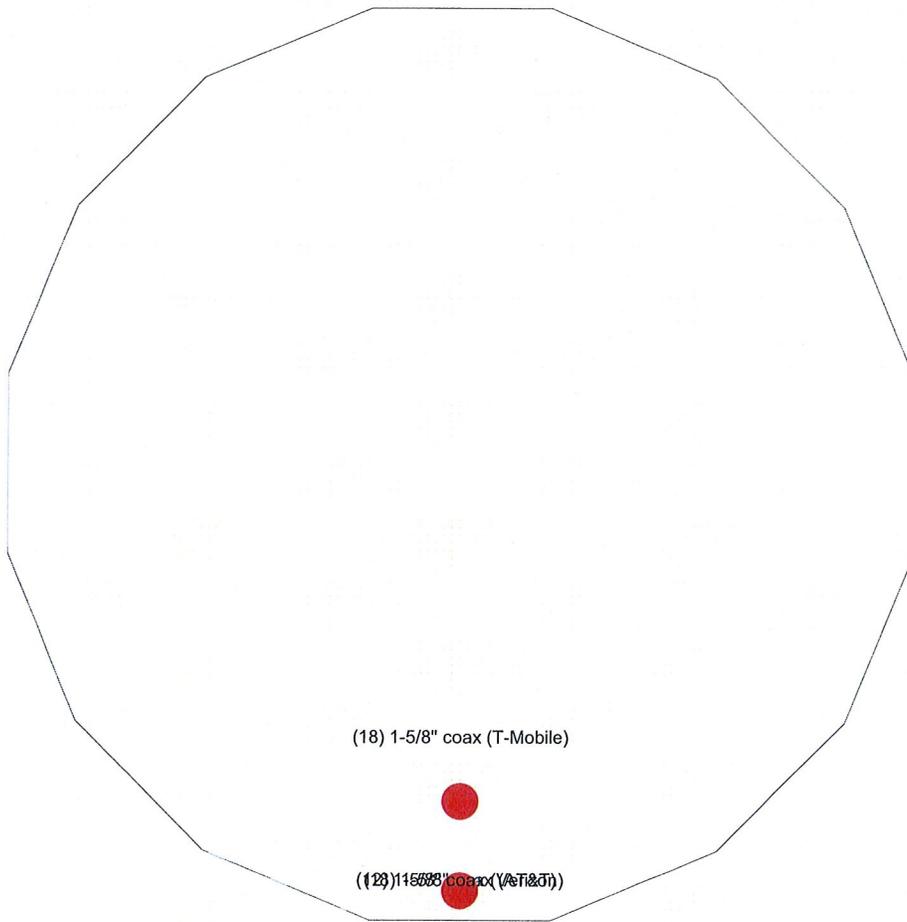
Feedline Plan

Round

Flat

App In Face

App Out Face



| | | | |
|-------------------------------------|--|-------------------------------------|----------------|
| Morrison Hershfield | | Job: FTP-039R1 / 61100010 | |
| 66 Perimeter Center East, Suite 600 | | Project: Branford 2 / CT1012 | |
| Atlanta, GA | | Client: Florida Tower Partners | Drawn by: EMR |
| Phone: 770-379-8545 | | Code: TIA/EIA-222-F | Date: 08/01/11 |
| FAX: 770-379-8501 | | Path: | Scale: NTS |
| | | | Dwg No. E-7 |

General Power Density

Site Name: Branford West, CT
 Cumulative Power Density

| Operator | Operating Frequency (MHz) | Number of Trans. | ERP Per Trans. (watts) | Total ERP (watts) | Distance to Target (feet) | Calculated Power Density (mW/cm ²) | Maximum Permissible Exposure* (mW/cm ²) | Fraction of MPE (%) |
|--------------|---------------------------|------------------|------------------------|-------------------|---------------------------|--|---|---------------------|
| VZW PCS | 1970 | 7 | 378 | 2646 | 149 | 0.0429 | 1.0 | 4.29% |
| VZW Cellular | 869 | 9 | 260 | 2340 | 149 | 0.0379 | 0.5793333333 | 6.54% |
| VZW AWS | 2145 | 1 | 670 | 670 | 149 | 0.0109 | 1.0 | 1.09% |
| VZW 700 | 698 | 2 | 770 | 1540 | 149 | 0.0249 | 0.4653333333 | 5.36% |

Total Percentage of Maximum Permissible Exposure

17.27%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.