



Martin County, Florida
Growth Management Department
DEVELOPMENT REVIEW DIVISION
2401 SE Monterey Road, Stuart, FL 34996 772-288-5495 www.martin.fl.us

DEVELOPMENT REVIEW APPLICATION

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A. GENERAL INFORMATION

Type of Application: Major Final Site Plan

Name or Title of Proposed Project: SR76 & 711 Tower

Brief Project Description:

United Commercial Telecom, LLC is proposing a 120' stealth-design Monopine Wireless Telecommunication Facility ("Tower") and all associated ground equipment within a 1,600 square foot lease area on the property located at SW 96th Street in Stuart, Florida (Martin County Parcel ID 18-39-41-000-003-00010-6). The Tower will be designed to accommodate the colocation of four (4) wireless carriers.

Was a Pre-Application Held? ☒ YES/NO ☐ Pre-Application Meeting Date: March 17, 2022

Is there Previous Project Information? ☐ YES/NO ☒

Previous Project Number if applicable: _____

Previous Project Name if applicable: _____

Parcel Control Number(s)

18-39-41-000-003-00010-6

_____	_____
_____	_____
_____	_____
_____	_____

B. PROPERTY OWNER INFORMATION

Owner (Name or Company): Fazlul Ahmed and Zarna Ahmed, husband and wife

Company Representative: _____

Address: 104 West Thatch Palm Circle

City: Jupiter, State: FL Zip: 33458

Phone: 561.503.9899 Email: fazlul8062@gmail.com

C. PROJECT PROFESSIONALS

Applicant (Name or Company): Fazlul Ahmed & Zarna Ahmed, husband and wife

Company Representative: _____

Address: 104 West Thatch Palm Circle

City: Jupiter, State: FL Zip: 33458

Phone: 561.503.9899 Email: fazlul8062@gmail.com

Agent (Name or Company): United Commercial Telecom, LLC

Company Representative: Kevin Wright

Address: 725 Primera Boulevard | Suite 225

City: Lake Mary, State: FL Zip: 32746

Phone: 850.503.2425 Email: kwright@unitedcommercial.net

Contract Purchaser (Name or Company): _____

Company Representative: _____

Address: _____

City: _____, State: _____ Zip: _____

Phone: _____ Email: _____

Land Planner (Name or Company): _____

Company Representative: _____

Address: _____

City: _____, State: _____ Zip: _____

Phone: _____ Email: _____

Landscape Architect (Name or Company): _____

Company Representative: _____

Address: _____

City: _____, State: _____ Zip: _____

Phone: _____ Email: _____

Surveyor (Name or Company): Geoline Surveying, Inc

Company Representative: Sean Barnes

Address: 13430 NW 104th Terrace | Suite A

City: Alachua, State: FL Zip: 32615

Phone: 386.418.0500 Email: sbarnes@geolineinc.com

Civil Engineer (Name or Company): GEN 3 Engineering

Company Representative: Darryl Kroeze

Address: 27139 Sea Breeze Way

City: Wesley Chapel, State: FL Zip: 33544

Phone: 813.917.2671 Email: darryl.kroeze@gen3engineering.com

PROJECT PROFESSIONALS CONTINUED

Traffic Engineer (Name or Company): _____

Company Representative: _____

Address: _____

City: _____, State: _____ Zip: _____

Phone: _____ Email: _____

Architect (Name or Company): _____

Company Representative: _____

Address: _____

City: _____, State: _____ Zip: _____

Phone: _____ Email: _____

Attorney (Name or Company): _____

Company Representative: _____

Address: _____

City: _____, State: _____ Zip: _____

Phone: _____ Email: _____

Environmental Planner (Name or Company): _____

Company Representative: _____

Address: _____

City: _____, State: _____ Zip: _____

Phone: _____ Email: _____

Other Professional (Name or Company): _____

Company Representative: _____

Address: _____

City: _____, State: _____ Zip: _____

Phone: _____ Email: _____

D. Completeness Sufficiency Review

Applications submitted for completeness/sufficiency review meetings held on Mondays, must be received by the Growth Management Department no later than 4 p.m. the previous Thursday or in the event of a holiday, 4 p.m. Wednesday. Applications received on Fridays will be scheduled for the following week.

E. Certification by Professionals

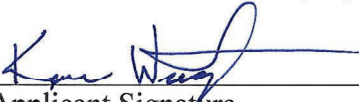
Section 10.5.F.6.h., Article 10, Development Review Procedures, Land Development Regulations (LDR), Martin County Code (MCC) provides the following:

When reviewing a development application that has been certified by a professional listed in F.S. § 403.0877, F.S., the County shall not request additional information from the applicant more than three times, unless the applicant waives the limitation in writing. If the applicant states in writing that the request for additional information is not authorized by ordinance, rule, statute, or other legal authority, the County, at the applicant's request, shall proceed to process the application for approval or denial. **(125.022(1), Fla. Stat.)**

☐ This box must be checked if the applicant waives the limitations.

F. APPLICANT or AGENT CERTIFICATION

I have read this application, and to the extent that I participated in the application, I have answered each item fully and accurately.


Applicant Signature

31.08.2026
Date

Kevin Wright
Printed Name

STATE OF FLORIDA

COUNTY OF MARTIN

The foregoing instrument was ☐ sworn to, ☐ affirmed, or ☐ acknowledged before me by means of ☒ physical presence or ☐ online notarization this 18th day of March, 2026, by Kevin Wright, who is ☒ personally known to me, or ☐ produced the following type of identification _____.

NOTARY PUBLIC SEAL



Notary Public, State of Florida

Willa Kuypers
(Printed, Typed or Stamped Name of Notary Public)



**Martin County Florida Growth Management Department
DEVELOPMENT REVIEW DIVISION
2401 SE Monterey Road, Stuart, FL 34996
772-288-5495 www.martin.fl.us**

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Digital Submittal Affidavit

I, Kevin Wright, attest that the electronic version included for the project K049-004 SR76 & 711 Tower Major Final Site Plan is an exact copy of the documents that were submitted for sufficiency, excluding any requested modifications made by the sufficiency review team. All requested modifications, if any, have been completed and are included with the packet.

Kevin Wright
Applicant Signature

3/18/2026
Date

**STATE OF FLORIDA
COUNTY OF MARTIN**

The foregoing instrument was ☐ sworn to, ☐ affirmed, or ☐ acknowledged before me by means of ☒ physical presence or ☐ online notarization this 18th day of March, 2026, by Kevin Wright, who is ☒ personally known to me, or ☐ produced the following type of identification _____.

NOTARY PUBLIC SEAL



Notary Public, State of Florida

Willa Kuypers
(Printed, Typed or Stamped Name of Notary Public)



UNITED COMMERCIAL TELECOM, LLC

March 18, 2026

Martin County Growth Management Department
2401 Monterey Road
Stuart, FL 34996

RE: Major Site Plan Application for the construction and use of a 120-foot Stealth Wireless Telecommunication Facility ("SR76&711 Tower")

**Applicant: United Commercial Telecom, LLC
725 Primera Blvd | Suite 225
Lake Mary, FL 32746**

**Owner: Fazlul and Zarna Ahmed
104 W. Thatch Palm Circle
Jupiter, FL 33458**

Contacts: Kevin Wright: 850.503.2425 / kwright@unitedcommercial.net

Dear Planning Staff:

Enclosed herein, please find United Commercial Telecom, LLC's ("United Commercial") Development Application for Major Site Plan approval to construct a 120' Stealth Monopine Wireless Telecommunication Tower ("Tower"). I have enclosed the following documents pursuant to the Martin County Land Development Code ("LDC") for United Commercial's submittal:

- Major Final Site Plan Application Fee, made payable to the Martin County BOCC
- Martin County Tower Site Plan Checklist
- Major Site Plan Application
- Digital Submittal Affidavit
- Copyright Permission to Duplicate Materials Form, from Gen3 Engineering Inc. and Geoline Surveying Inc.
- Project Summary Narrative (*this narrative letter*)
- Tower Illustration Photo Simulation Package
- Tower Illustration Certification Letter
- Tower Shared Use Letter
- Tower Colocation Infeasibility Report
- Tower FAA Response Determination of No Hazard
- Tower Design Statement
- Tower FCC ASR
- Tower Inventory Statement
- Agent of Record Letter
- Disclosure of Interest Affidavit
- Unity of Title
- Warranty Deed
- Property Transfer Statement
- Legal Descriptions
- Site Location Map



- Stormwater Calculations
- Stormwater Maintenance Plan
- Environmental Assessment
- Site Plans
- Boundary and Topography Survey
- Construction Sequencing Letter

United Commercial is requesting Major Site Plan Application approval for a 120' Monopine Tower and associated ground equipment. The property is located at SW 96th Street in Stuart, Florida; Martin County Parcel ID 18-39-41-000-003-00010-6. The total acreage of the parent parcel is approximately 1.75 acres (according to the Martin County Property Appraiser's Office) and is zoned Limited Commercial. The Tower meets all setback requirements for a Stealth Facility. Wireless telecommunication facilities are needed to serve the surrounding residential and recreational areas and are essential to all land uses. The siting of a Tower as a general public service and emergency service use (including E911) shall strengthen the wireless service to area and support the health, welfare and safety of the community.

The parent parcel is currently vacant. This Tower site has been designed and will be constructed in conjunction with a separate Development Application for a Major Site Plan in which the Landowner is proposing to develop the parent parcel into an approximate 10,000 square-foot commercial shopping plaza. The Tower will be located on the east side of the shopping plaza and will be comprised of a 40'x40' 1,600 square foot fenced-in compound, in addition to any required easements for access and utilities. The Tower will be designed to accommodate the collocation for up to four wireless telecommunication providers, and AT&T is the anchor tenant. Trips made to the site will be approximately one monthly visit per carrier with access to the site from SW 96th Street via a non-exclusive access easement.

United Commercial is requesting flexibility from the landscaping requirements of the LDC for the Tower specifically, as the Landowner's commercial plaza Landscaping Plan has provided adequate screening and buffering. United Commercial has included this Landscaping Plan in the Site Plans, page SP-1. Per the FAA Determination, the proposed Tower does not require lighting for aviation safety, thus the tower will not be lit. This is an unmanned, unoccupied Tower and will utilize no water sources or utility-related calculations. All preserve area management and stormwater maintenance will be under the control and responsibility of the Landowner, who has developed a Stormwater Maintenance Plan, Stormwater Maintenance Calculations, and Preserve Area Management Plan.

Please find below a description of how United Commercial's proposed project meets the criteria of the applicable sections of the Martin County LDC, supplemental to the application.

Land Development Regulations, Article 4 – Site Development Standards, Division 18 – Wireless Telecommunication Facilities

...



Sec. 4.793. Applications for development approval.

No WTCF or tower shall be constructed, reconstructed, structurally altered or moved except pursuant to the provisions of this division 18 and pursuant to a development order issued in accordance with Article 10, Development Review Procedures, of the Land Development Regulations. Nothing in this division is intended to limit routine maintenance of lawfully established WTCFs or towers. Despite any provisions to the contrary in Section 10.11 of the Land Development Regulations, the required type of development review for a WTCF or tower shall be as follows:

Development Review Process	Activity
Building permit only:	Co-location of an antenna on an existing tower. Replacement of antennas or ancillary WTCF equipment on an otherwise lawfully established tower or antenna support structure site. New pole-mounted antennas. New structure-mounted antennas. New amateur radio antennas. New Class A or Class B satellite earth stations. Repair, reconstruction or replacement of an existing, nonconforming tower not involving an extension in tower height pursuant to section 4.806.
Minor development:	Construction of a new tower or an increase in the height of an existing tower on lands within industrial or agricultural future land use designations.
Major development:	Construction of a new tower or an increase in the height of an existing tower within any future land use designation other than industrial or agricultural, except as otherwise provided in section 4.806.

United Commercial is applying for a Major Site Plan Application on property with a future land use designation of Commercial.

Sec. 4.794. Development application requirements for towers.

In addition to any other applicable requirements provided elsewhere in the Land Development Regulations, a development application for a tower shall include the following:

- 4.794.A. *Engineering report.* A report from a licensed professional providing:
1. Design of the tower height including a cross section view and elevation;



2. Design of the tower's structural capacity, including the number and types of antennas that it can accommodate;
3. Documentation of the height above grade for all potential mounting positions for all potential co-located antennas and the minimum separation distances between potential antennas;
4. An analysis and/or other data documentation that certifies that, in the event of a catastrophic failure or collapse of the tower, it will collapse within the engineered fall zone;

See Site Plans

5. Written technical documentation of any Federal Aviation Administration ("FAA") approvals and lighting requirements and, if applicable, documentation of approval or denial of lighting and a statement whether an FAA "Determination of No Hazard to Aviation" is required by 47 C.F.R. part 17 for the tower. If such a determination is required, no building permit for the tower shall be issued until a copy of the determination is filed with the County. **See FAA Determination of No Hazard**
- 4.794.B. *Color illustrations.* Color photo digitized simulations showing the proposed site of the tower including all attached or associated WTCF equipment, with a photo-realistic representation of the proposed tower as it would appear viewed from the closest residential property or properties and from adjacent roadways. **See Photo Simulation Package**
- 4.794.C. *Shared use letter of intent.* An application for a tower shall include a letter of intent, in a form approved by the County, committing the tower owner and successors to allow the shared use of the tower if additional users agree in writing to meet reasonable terms and conditions for shared use.

See Shared Use Letter of Intent

- 4.794.D. *Documentation of the infeasibility of tower co-location.* An application for a tower shall contain adequate documentation that co-location on an existing approved tower, of any type, or on an existing building or structure, has been attempted and is not feasible. Such documentation shall include:
 1. The results of a propagation study demonstrating to the satisfaction of the County that the equipment planned for a proposed tower cannot be accommodated on an existing or approved and unbuilt structure.
 2. A propagation study analysis shall be based upon a search radius of three-quarters of a mile minimum distance from the proposed location of the intended tower, including areas lying outside of the unincorporated area of Martin County. At the discretion of the County, based on the County's knowledge of existing co-location opportunities, the County may allow an applicant to provide an affidavit from a professional radio frequency engineer which establishes the search area diameter for the proposed WTCF location and identifies all other alternatives in such search area. Even if the latter methodology is utilized, further information may be required by the County on the ability of the WTCF to be accommodated on specific sites within three-quarters of a mile of the proposed WTCF.



3. When co-location is determined by staff to be infeasible, the determination shall be based upon the results of the propagation study and other evidence provided by the applicant documenting one or more of the following reasons:
 - a. *Structural limitation.* The proposed equipment would exceed the structural capacity of the existing or approved structure, as documented by a qualified and licensed professional engineer, and the existing or approved structure cannot be reinforced, modified, or replaced to accommodate the planned or equivalent equipment at a reasonable cost.
 - b. *Interference.* The proposed equipment would cause interference or obstruction materially impacting the usability of other existing or planned equipment at the tower or building as documented by a qualified professional and the interference or obstruction cannot be prevented at a reasonable cost.
 - c. *Insufficient height.* Existing or approved towers and buildings within the search radius cannot accommodate the planned equipment at a height necessary to function reasonably as documented by a qualified and licensed, if applicable, professional.
 - d. *Lack of space.* Evidence from the applicant, verified by a licensed professional, of the lack of space on existing towers or other structures within the search radius to accommodate the proposed facility.
 - e. *Other factors.* Other reasons that make it unfeasible to locate the planned equipment upon an existing or approved tower or building as documented by a qualified and licensed, if applicable, professional.

See #9 Tower Colocation Infeasibility Report

4.794.E. *Other requirements.*

1. A copy of the Federal Aviation Administration response to the submitted "Notice of Proposed Construction or Alteration," or its replacement, or certification from a qualified professional engineer that FAA review and approval is not required. **See #10 FAA Determination of No Hazard**
2. A sealed statement from a qualified professional engineer, licensed in the State of Florida, that the design of the proposed tower complies with the tower design standards as set forth in section 4.797.B.1. **See #11 Tower Design Statement**
3. Copies of all currently valid FCC licenses for the proposed facility. **See #12 FCC ASR 1322956**

Sec. 4.795. Priority siting conditions.

Any new WTCF or tower shall be subject to a determination of the appropriate siting priority as follows:

- 4.795.A. *Siting priorities, generally.* These priorities range from 1 to 4, with the preferred siting conditions found in Priority 1 and the least desirable siting conditions found in Priority 4. In



the event that a proposed WTCF or tower cannot be sited to comply with the conditions of Priority 1, the development application shall demonstrate why a lower priority site is necessary.

- 4.795.B. *Priority 1.* Pole-mounted WTCFs or the co-location of WTCFs on existing towers or antenna support structures located on property that is not adjacent to residential uses are preferred. If a WTCF cannot be co-located on a site which is not adjacent to a residential use, co-location on a site located adjacent to a residential use is the next preference within Priority 1. Only when it can be demonstrated that there are no suitable existing structures, based on the determination made under section 4.794.D.3., can a lower priority be considered for siting the proposed facility.
- 4.795.C. *Priority 2.* If a WTCF cannot be located on a site specified in Priority 1, the applicant may propose a new tower on property designated industrial or agricultural on the future land use map.
- 4.795.D. *Priority 3.* If a proposed WTCF cannot comply with Priorities 1 and 2, the applicant may propose a new tower on property designated general commercial or limited commercial on the future land use map. **United Commercial is proposing a new WTCF tower on property designated as Commercial Limited.**
- 4.795.E. *Priority 4.* ... Section Not Applicable

Sec. 4.797. Structure design requirements.

...

4.797.B. *Tower design standards.*

1. *National standards.* The Telecommunications Industries Association (TIA) is the accepted standards making body for towers. Any proposed tower or modification of an existing tower shall be constructed according to Structural Standards for Steel Antenna Towers and Antenna Supporting Structures (ANSI/TIA 222), as may be amended from time to time. **United Commercial understands and will remain in compliance. See Site Plans, Page GN-1**
2. *Tower design for co-location.* A proposed tower shall be designed, when applicable, to allow for future rearrangement of antennas, to provide space for antennas to be mounted at varying elevations, and to accommodate co-location. **See Site Plans, Page C-3**
3. *Monopoles.* All towers shall be monopoles except as otherwise provided for in this division 18. **United Commercial is proposing a stealth, monopine design.**
4. *Illumination.* A tower shall not be artificially lighted except as may be required by Federal or state regulation. **The tower shall not be lit.**
5. *Surface or finish color.* Regardless of whether designed as a stealth facility, towers shall be painted or have a noncontrasting finish that minimizes the visibility of the facility from public view, except where contrasting color is required by Federal or state regulation. In addition, the exterior of support facilities shall be designed to be compatible with the architectural design prevailing generally among the structures in the surrounding developed area.



See Site Plans, Page C-3

6. *Signage.* The main access gate to the tower shall have affixed to it a sign not to exceed two feet by three feet in size which displays the owner's and/or permittee's name and an emergency telephone number.

See Site Plans, Page C-4

Sec. 4.798. Tower separations and fall zones.

4.798.A. *Tower separations.* ...**Section Not Applicable**

4.798.B. *Setback and fall zone.* ...**Section Not Applicable**

4.798.C. *Exceptions.* The requirements set forth in subsections 4.798.A and 4.798.B above shall not apply to any stealth tower.

United Commercial is proposing a stealth, Monopine design.

4.798.D. WTCFs located on lands designated agricultural ...**Section Not Applicable**

Sec. 4.799. Tower height restrictions.

4.799.A. *Measurement of tower height.* Tower height shall be determined by the vertical distance from the base elevation of the tower site prior to construction to the highest point of the tower, including all antennas and other attachments except lightning rods.

4.799.B. *Maximum height.* The maximum height of towers shall be as follows:

Area	One Service Provider
Areas designated agricultural or industrial on the future land use map except areas designated industrial on the future land use map lying within the Indiantown Community Redevelopment Area.	140 ft.
All future land use designations other than agricultural and industrial.	120 ft.
Areas designated industrial on the future land use map lying within the Indiantown Community Redevelopment Area.	120 ft.

United Commercial has designed the tower at 120 feet. See Site Plans.



Sec. 4.800. Public safety communications requirements.

...

Section not applicable.

Sec. 4.801. Right to inspect.

The County or its designees shall have the right to inspect, upon reasonable notice to the owner and/or permittee, any WTCF or tower for the purpose of determining compliance with this Division 18.

United Commercial understands and will comply with this provision.

Sec. 4.802. Certification of continued structural integrity.

Every five years, or within 90 days following a catastrophic act of nature or other emergency that may affect the structural integrity of a tower, the tower owner or permittee shall file with the County Administrator a statement, sealed by a qualified professional engineer, licensed in the State of Florida, that an inspection has been completed and that the tower has not been structurally compromised.

United Commercial understands and will comply with this provision.

Sec. 4.803. Removal of abandoned or unsafe towers.

4.803.A. *Determination of abandoned or unsafe tower.* The County Administrator may determine that a tower is abandoned or unsafe and shall provide written notification of such determination to the tower owner and/or permittee.

4.801.B. *Prima facie evidence.* The following shall constitute prima facie evidence that a tower has been abandoned or is unsafe:

1. Failure of the tower owner and/or permittee to respond within 90 days to a notice by the County Administrator of a failure to submit a certification of continued structural integrity as required in section 4.802; or
2. Discontinuation of the use of the tower for its intended use for a period of 360 consecutive days.
3. Failure of the tower owner and/or permittee to respond within 90 days to a notice from the County Administrator of finding that a tower is abandoned or unsafe pursuant to this section 4.803.

4.803.C. *Response to the notice of abandonment.* Upon receipt of the notice of determination that a tower is abandoned or unsafe, the tower owner and/or permittee shall have 90 days within which to:

1. Correct the deficiencies noted in the County Administrator's determination of an abandoned or unsafe tower; or
2. Dismantle and remove the tower.



4.803.D. *Removal of the tower.* A tower that is removed as a result of the enforcement provisions of this section 4.803 shall be completed at no cost to the County. Where removal of a tower is required, all related structures shall also be removed, including any associated ground-based equipment and including footings and foundations. If the tower is not removed within one year of the date of the County Administrator's determination that the tower is abandoned or unsafe, the County may remove the tower and place a lien on the property following the appropriate procedures for demolition of an unsafe structure. The duty to remove the tower shall supersede and otherwise override any conflicting provision of any contract, agreement, lease, sublease, license, franchise or other instrument entered into or issued on and after the effective date of this Division 18.

United Commercial understands and will comply with this provision.

Sec. 4.804. Reserved.

Sec. 4.805. Technical consultants.

The County shall have the right to retain independent technical consultants and experts that it deems necessary to properly evaluate applications for wireless telecommunication facilities and to charge reasonable fees as necessary to offset the cost of such evaluations. **United Commercial understands and will comply with this provision.**

Sec. 4.806. Nonconformities.

...Section Not Applicable

Sec. 4.807. Public safety telecommunications facilities.

...Section Not Applicable

Sec. 4.808. Limited regulation of broadcast radio and television towers.

...Section Not Applicable

Sec. 4.809. Cells-on-wheels.

...Section Not Applicable



UNITED COMMERCIAL
TELECOM, LLC

March 18, 2026

*Martin County Growth Management Department
2401 Monterey Road
Stuart, FL 34996*

RE: Shared Use Letter of Intent
Project: #K049-004 / SR76 & 711 Tower

To whom it may Concern:

United Commercial Telecom, LLC ("United Commercial") is providing this letter as part of its documentation for a Major/Final Development Application in compliance with Ordinance Number 667, Section 4.794, C. United Commercial is building this telecommunications facility for use by multiple carriers (4) and fully intends to allow carries to contract for collation on this facility.

Please contact me at 850.503.2425 or kwright@unitedcommercial.net with any questions or concerns.

Thank you,

A handwritten signature in blue ink, appearing to read "Kevin Wright", with a long horizontal flourish extending to the right.

Kevin Wright
Director of Operations
United Commercial Telecom, LLC



UNITED COMMERCIAL
TELECOM, LLC

March 18, 2026

*Martin County Growth Management Department
2401 Monterey Road
Stuart, FL 34996*

RE: Tower Inventory
Project: #K049-004 / SR76 & 711 Tower

To whom it may Concern:

United Commercial Telecom, LLC ("United Commercial") is providing this letter as part of its documentation for a Major/Final Development Application in compliance with Martin County Land Development Regulations, Article 4, Division 18, Section 4.811. United Commercial does not have any inventory of existing wireless telecommunications facilities within Martin County or for a distance of one mile beyond the County limits.

Please contact me at 850.503.2425 or kwright@unitedcommercial.net with any questions or concerns.

Thank you,

A handwritten signature in blue ink, appearing to read "Kevin Wright", with a long horizontal flourish extending to the right.

Kevin Wright
Director of Operations
United Commercial Telecom, LLC

725 Primera Boulevard, Suite 225 | Lake Mary, FL 32746



UNITED COMMERCIAL
TELECOM, LLC

March 18, 2026

*Martin County Growth Management Department
2401 Monterey Road
Stuart, FL 34996*

RE: Priority Siting
Project: #K049-004 / SR76 & 711 Tower

To whom it may Concern:

United Commercial Telecom, LLC ("United Commercial") is providing this letter as part of its documentation for a Major/Final Development Application in compliance with Martin County Land Development Regulations, Sec. 4.795 Priority siting conditions. Multiple property owners within a ¼ mile search ring in the area near the intersection of SW Kanner Highway and SW 96th Street were contacted; Fazlul and Zarna Ahmed were the only landowners interested in working to develop a wireless facility on their property.

Please contact me at 850.503.2425 or kwright@unitedcommercial.net with any questions or concerns.

Thank you,

A handwritten signature in blue ink, appearing to read 'Kevin Wright', with a long horizontal flourish extending to the right.

Kevin Wright
Director of Operations
United Commercial Telecom, LLC

725 Primera Boulevard, Suite 225 | Lake Mary, FL 32746

AGENT OF RECORD LETTER

RE: United Commercial Application for Communications Tower Facility

I, FAZZUL AHMED and Zarna ahmed own the following property located at SW 96th Street, in Stuart, Florida 34685 (Martin County Parcel ID 18-39-41-000-003-00010-6), and have the authority to execute this document. I hereby designate and appoint the below listed Agent(s) of Record for any necessary zoning, permitting and regulatory processes in association with the development of a telecommunications tower located at the aforementioned property.

The Agent of Record is vested with the authority to make representations and agreements, which are necessary or desirable in conjunction with any of the aforementioned processes. The Agent of Record is authorized to accept or reject conditions imposed by any reviewing board or entity. The Agent of Record has the authority to execute and file any and all necessary sets of plans, applications or other required paperwork necessary in the zoning or permitting process for the above-mentioned site.

The authorized Agent(s) of Record:

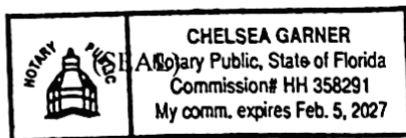
United Commercial
Kevin Wright
725 Primera Boulevard, Suite 225
Lake Mary, FL 32746
Phone: 850.503.2425
Email: kwright@unitedcommercial.net

United Commercial
Willa Lee
725 Primera Boulevard, Suite 225
Lake Mary, FL 32746
Phone: 407.257.5741
Email: wlce@unitedcommercial.net

[Signature] 1.9.2025
Signature Date
FAZZUL AHMED
Printed

STATE OF FLORIDA
COUNTY OF Dalm Beach

The foregoing instrument was acknowledged before me this 9 day of January, 2025, by Fazlul Ahmed who has produced FLDL as identification.



[Signature]
Notary Public
Chelsea Garner
Printed Name of Notary

Zaina Ahmed 1-9-25

Signature

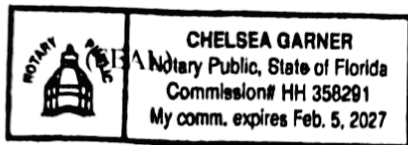
Date

Printed

STATE OF FLORIDA

COUNTY OF Palm Beach

The foregoing instrument was acknowledged before me this 9 day of January, 2025, by Zaina Ahmed who has produced FL DL as identification



Chelsea Garner

Notary Public

Chelsea Garner

Printed Name of Notary



Recorded in Martin County, FL 11/9/2020 11:51 AM
Carolyn Timmann, Clerk of the Circuit Court & Comptroller
Rec Fees: \$18.50 Deed Tax: \$1,575.00
CFN#2849009 BK 3172 PG 866 PAGE 1 of 2

Prepared by and return to:

Rossknecht Legal Services, LLC
736 S. Colorado Avenue
Stuart, FL 34994
(772) 288-3303
File Number: 20-0059
Will Call No.:

[Space Above This Line For Recording Data]

Warranty Deed

This Warranty Deed made this 9th day of November, 2020 between Sandra L. Klein, a single woman, Individually and as Trustee under the Land Trust Agreement dated May 8, 1987 whose post office address is 505 SE St. Lucie Blvd., Stuart, FL 34996, grantor, and Fazlul Ahmed and Zarna Ahmed, husband and wife, whose post office address is 104 W. Thatch Palm Circle, Jupiter, FL 33458-7174, grantee.

(Whenever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, trusts and trustees)

Witneseth, that said grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00) and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained, and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in Martin County, Florida to-wit:

The Westerly 304.7 feet of the East 625 feet of the North 300 feet of Lot 3, Block 18, Tropical Fruit Farms, as recorded in Plat Book 3, Page 6, Public Records of Palm Beach (now Martin) County, Florida.

Said described property is vacant, unimproved land.

Parcel Identification Number: 18-39-41-000-003-00010.60000

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2020.

CFN#2849009 BK 3172 PG 867 PAGE 2 of 2

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

T. Lucas Rossknecht

Witness

Printed Name: T. Lucas Rossknecht

Witness

Printed Name: Jennike Nolen

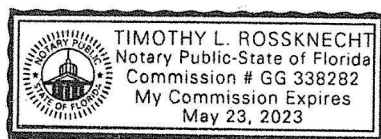
Land Trust Agreement dated May 8, 1987

By: Sandra L. Klein
Sandra L. Klein, Individually and as Trustee

State of Florida
County of Martin

The foregoing instrument was acknowledged before me by means of ☒ physical presence or ☐ online notarization, this 9 day of November, 2020 by **Sandra L. Klein, a single woman, Individually and as Trustee under the Land Trust Agreement dated May 8, 1987**, who ☐ is personally known or ☐ has produced a driver's license as identification.

[Seal]



T. Lucas Rossknecht
Notary Public

Print Name: _____

My Commission Expires: _____



UNITED COMMERCIAL
TELECOM, LLC

March 18, 2026

*Martin County Growth Management Department
2401 Monterey Road
Stuart, FL 34996*

RE: Property Transfer
Project: #K049-004 / SR76 & 711 Tower

To whom it may Concern:

United Commercial Telecom, LLC ("United Commercial") is providing this letter as part of its documentation for a Major/Final Development Application in compliance with Martin County Land Development Regulations Article 10, Section 10.2. There has not been a property title transfer since the recorded deed, dated November 9, 2020, Martin County Book 31752, Page 866/867.

Please contact me at 850.503.2425 or kwright@unitedcommercial.net with any questions or concerns.

Thank you,

A handwritten signature in blue ink, appearing to read 'Kevin Wright', with a long horizontal flourish extending to the right.

Kevin Wright
Director of Operations
United Commercial Telecom, LLC

725 Primera Boulevard, Suite 225 | Lake Mary, FL 32746

Martin County Map

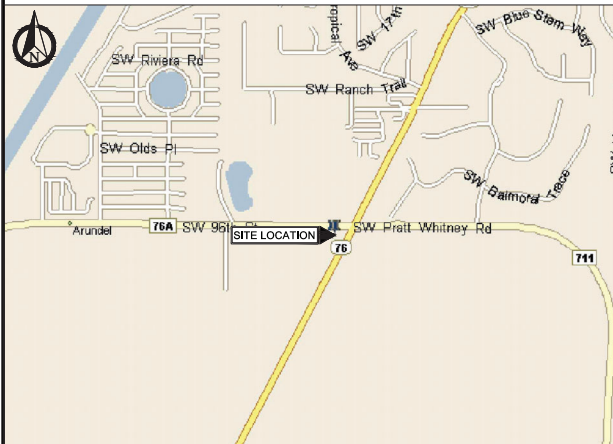




UNITED COMMERCIAL TELECOM, LLC

725 PRIMERA BLVD, STE 120
LAKE MARY, FL 32746
(407) 221-1027

LOCATION MAP



VICINITY MAP

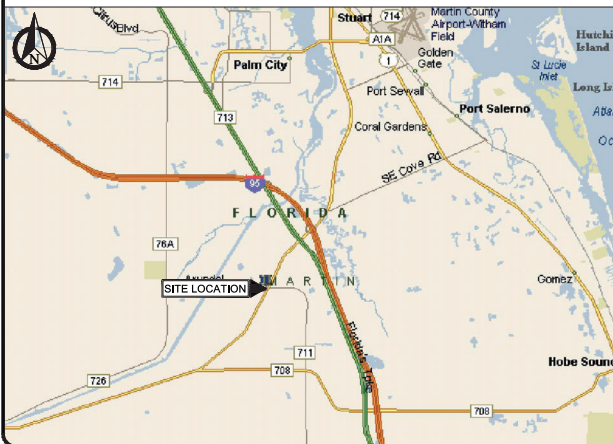
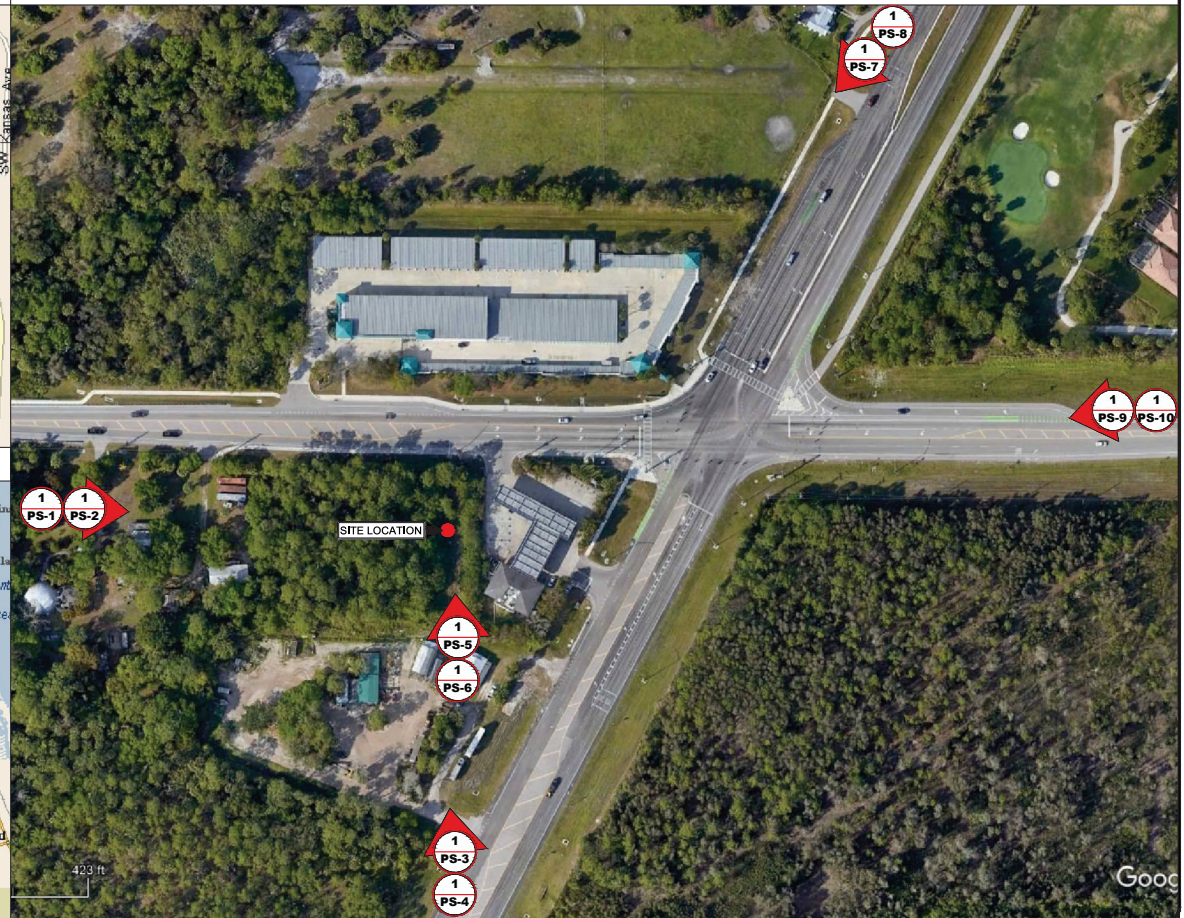


PHOTO SIM INDEX

SHEET#	DESCRIPTION
T-1	TITLE SHEET
PS-1	EXISTING CONDITIONS APPROXIMATELY 487.4' WEST OF SITE LOCATION
PS-2	PROPOSED APPROXIMATELY 487.4' WEST OF THE PROPOSED TOWER LOCATION
PS-3	EXISTING CONDITIONS APPROXIMATELY 446.5' SOUTH OF SITE LOCATION
PS-4	PROPOSED APPROXIMATELY 446.5' SOUTH OF THE PROPOSED TOWER LOCATION
PS-5	EXISTING CONDITIONS APPROXIMATELY 138.0' SOUTH OF SITE LOCATION
PS-6	PROPOSED APPROXIMATELY 138.0' SOUTH OF THE PROPOSED TOWER LOCATION
PS-7	EXISTING CONDITIONS APPROXIMATELY 915.6' NORTH OF SITE LOCATION
PS-8	PROPOSED APPROXIMATELY 915.6' NORTH OF THE PROPOSED TOWER LOCATION
PS-9	EXISTING CONDITIONS APPROXIMATELY 932.0' EAST OF SITE LOCATION
PS-10	PROPOSED APPROXIMATELY 932.0' EAST OF THE PROPOSED TOWER LOCATION

PHOTO LOCATION



REV	DATE	DESCRIPTION
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PREPARED FOR:

UNITED COMMERCIAL
TELECOM, LLC

725 PRIMERA BLVD, STE 120
LAKE MARY, FL 32746
(407) 221-1027

PREPARED BY:

GEN
ENGINEERING

27139 SEA BREEZE WAY
WESLEY CHAPEL, FLORIDA 33544
(813) 917-2671
COA # 35409

**PRELIMINARY
NOT FOR
CONSTRUCTION**

**SR76&711
FL-5343**

SW 96TH ST
STUART, FL 34997

SHEET DESCRIPTION

TITLE SHEET

SHEET NUMBER

T-1



REV	DATE	DESCRIPTION
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GEN3 PROJECT#:		102204003
DRAWN BY:		CHECKED BY:
YMK		DK

PREPARED FOR:

**UNITED COMMERCIAL
TELECOM, LLC**
725 PRIMERA BLVD, STE 120
LAKE MARY, FL 32746
(407) 221-1027

PREPARED BY:

**GEN
ENGINEERING**
27139 SEA BREEZE WAY
WESLEY CHAPEL, FLORIDA 33544
(813)917-2671
COA # 35409

**PRELIMINARY
NOT FOR
CONSTRUCTION**

**SR76&711
FL-5343**
SW 96TH ST
STUART, FL 34997

SHEET DESCRIPTION
**487.4' WEST OF
SITE LOCATION**

SHEET NUMBER
PS-1

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GEN3 PROJECT#:		102204003
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YMK		DK

PREPARED FOR:

**UNITED COMMERCIAL
TELECOM, LLC**
725 PRIMERA BLVD., STE 120
LAKE MARY, FL 32746
(407) 221-1027

PREPARED BY:

**GEN
ENGINEERING**
27139 SEA BREEZE WAY
WESLEY CHAPEL, FLORIDA 33544
(813)917-2671
COA # 35409

**PRELIMINARY
NOT FOR
CONSTRUCTION**

**SR76&711
FL-5343**

SW 96TH ST
STUART, FL 34997

SHEET DESCRIPTION

**487.4' WEST OF
PROPOSED TOWER**

SHEET NUMBER

PS-2

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YMK		DK

PREPARED FOR:

 **UNITED COMMERCIAL
TELECOM, LLC**

725 PRIMERA BLVD., STE 120
LAKE MARY, FL 32746
(407) 221-1027

PREPARED BY:

 **GEN
ENGINEERING**

27139 SEA BREEZE WAY
WESLEY CHAPEL, FLORIDA 33544
(813) 917-2671
COA # 35409

**PRELIMINARY
NOT FOR
CONSTRUCTION**

**SR76&711
FL-5343**

SW 96TH ST
STUART, FL 34997

SHEET DESCRIPTION

**446.5' SOUTH OF
SITE LOCATION**

SHEET NUMBER

PS-3



**PROPOSED 120'
UNITED
COMMERCIAL
TELECOM
MONOPINE TOWER**

REV	DATE	DESCRIPTION
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GEN3 PROJECT#: 102204003

DRAWN BY:	CHECKED BY:
YMK	DK

PREPARED FOR:

**UNITED COMMERCIAL
TELECOM, LLC**

725 PRIMERA BLVD., STE 120
LAKE MARY, FL 32746
(407) 221-1027

PREPARED BY:

**GEN
ENGINEERING**

27139 SEA BREEZE WAY
WESLEY CHAPEL, FLORIDA 33544
(813) 917-2671
COA # 35409

**PRELIMINARY
NOT FOR
CONSTRUCTION**

**SR76&711
FL-5343**

SW 96TH ST
STUART, FL 34997

SHEET DESCRIPTION

**446.5' SOUTH OF
PROPOSED TOWER**

SHEET NUMBER

PS-4

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GEN3 PROJECT#:		102204003
DRAWN BY:		CHECKED BY:
YMK		DK

PREPARED FOR:

**UNITED COMMERCIAL
TELECOM, LLC**

725 PRIMERA BLVD., STE 120
LAKE MARY, FL 32746
(407) 221-1027

PREPARED BY:

**GEN
ENGINEERING**

27139 SEA BREEZE WAY
WESLEY CHAPEL, FLORIDA 33544
(813)917-2671
COA # 35409

**PRELIMINARY
NOT FOR
CONSTRUCTION**

**SR76&711
FL-5343**

SW 96TH ST
STUART, FL 34997

SHEET DESCRIPTION
**138.0' SOUTH OF
SITE LOCATION**

SHEET NUMBER
PS-5

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**PROPOSED 120'
UNITED
COMMERCIAL
TELECOM
MONOPINE TOWER**

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GEN3 PROJECT#:		102204003
DRAWN BY:		CHECKED BY:
YMK		DK

PREPARED FOR:

**UNITED COMMERCIAL
TELECOM, LLC**

725 PRIMERA BLVD., STE 120
LAKE MARY, FL 32746
(407) 221-1027

PREPARED BY:

**GEN
ENGINEERING**

27139 SEA BREEZE WAY
WESLEY CHAPEL, FLORIDA 33544
(813)917-2671
COA # 35409

**PRELIMINARY
NOT FOR
CONSTRUCTION**

**SR76&711
FL-5343**

SW 96TH ST
STUART, FL 34997

SHEET DESCRIPTION

**138.0' SOUTH OF
PROPOSED TOWER**

SHEET NUMBER

PS-6

USA Engineering - C:\Users\DerryKroetz\Downloads\102204003_SR76&711_FL-5343_Photo Sim_RevA_02.13.24.dwg March 6, 2026 1:41:19 PM DerryKroetz



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GEN3 PROJECT#:		102204003
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YMK		DK

PREPARED FOR:

**UNITED COMMERCIAL
TELECOM, LLC**

725 PRIMERA BLVD., STE 120
LAKE MARY, FL 32746
(407) 221-1027

PREPARED BY:

**GEN
ENGINEERING**

27139 SEA BREEZE WAY
WESLEY CHAPEL, FLORIDA 33544
(813)917-2671
COA # 35409

**PRELIMINARY
NOT FOR
CONSTRUCTION**

**SR76&711
FL-5343**

SW 96TH ST
STUART, FL 34997

SHEET DESCRIPTION

**915.6' NORTH OF
SITE LOCATION**

SHEET NUMBER

PS-7

USA Engineering - C:\Users\DerryKroez\Downloads\102204003_SR76&711_FL-5343_Photo Sim Revd_02.13.24.dwg March 6, 2026 1:41:33 PM DerryKroez



**PROPOSED 120'
UNITED
COMMERCIAL
TELECOM
MONOPINE TOWER**

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YMK		DK

PREPARED FOR:

**UNITED COMMERCIAL
TELECOM, LLC**

725 PRIMERA BLVD., STE 120
LAKE MARY, FL 32746
(407) 221-1027

PREPARED BY:

**GEN
ENGINEERING**

27139 SEA BREEZE WAY
WESLEY CHAPEL, FLORIDA 33544
(813) 917-2671
COA # 35409

**PRELIMINARY
NOT FOR
CONSTRUCTION**

**SR76&711
FL-5343**

SW 96TH ST
STUART, FL 34997

SHEET DESCRIPTION

**915.6' NORTH OF
PROPOSED TOWER**

SHEET NUMBER

PS-8

USA Engineering - C:\Users\DorothyKroeze\Downloads\102204003_SR76&711_FL-5343_Photo Sim Revd_02.13.24.dwg March 6, 2026 1:41:37 PM DorothyKroeze



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YMK		DK

PREPARED FOR:

**UNITED COMMERCIAL
TELECOM, LLC**

725 PRIMERA BLVD., STE 120
LAKE MARY, FL 32746
(407) 221-1027

PREPARED BY:

**GEN
ENGINEERING**

27139 SEA BREEZE WAY
WESLEY CHAPEL, FLORIDA 33544
(813) 917-2671
COA # 35409

**PRELIMINARY
NOT FOR
CONSTRUCTION**

**SR76&711
FL-5343**

SW 96TH ST
STUART, FL 34997

SHEET DESCRIPTION
**932.0' EAST OF
SITE LOCATION**

SHEET NUMBER
PS-9

USA Engineering - C:\Users\DoryKroez\Downloads\102204003_SR76&711_FL-5343_Photo Sim Revd_02.13.24.dwg March 6, 2026 14:13:33 PM DoryKroez



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GEN3 PROJECT#:		102204003
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YMK		DK

PREPARED FOR:

 **UNITED COMMERCIAL
TELECOM, LLC**

725 PRIMERA BLVD., STE 120
LAKE MARY, FL 32746
(407) 221-1027

PREPARED BY:

 **GEN
ENGINEERING**

27139 SEA BREEZE WAY
WESLEY CHAPEL, FLORIDA 33544
(813) 917-2671
COA # 35409

**PRELIMINARY
NOT FOR
CONSTRUCTION**

**SR76&711
FL-5343**

SW 96TH ST
STUART, FL 34997

SHEET DESCRIPTION

**932.0' EAST OF
PROPOSED TOWER**

SHEET NUMBER

PS-10

March 6, 2026

GEN3 Engineering, Inc.
27139 Sea Breeze Way
Wesley Chapel, FL 33544
COA:35409

Martin County, Florida Growth Management Department
2401 SE Monterey Road
Stuart, FL 34996
Cary, NC 27518

RE: Tower Design Specification – Proposed 120' Monopine Tower in a 1600 SF Graveled Compound
Project Name: SR76&711 / FL-5343
Address: SW 96th Street
Stuart, FL 34997
Parcel Number: 18-39-41-000-003-00010-6

To Whom It May Concern:

For the United Commercial Telecom, LLC SR76&711 / FL-5343 site, a 120' monopine is proposed and shall be constructed of galvanized steel (painted brown) with the following elevations:

T/ Tower Steel	120' AGL
T/ Platform	120' AGL
Wireless Carrier Rad Center	115'
Future Carrier Elevations	105', 95' and 85'
T/ Lightning Rod	124'
Tower diameter at 120'	24" (Max)
Green Pine Branches	60'-120'

The monopine is to be located within a 40' x 40' lease parcel area and shall be designed to support a total of four cellular carriers. The tower shall be designed per the following criteria:

DESIGN CRITERIA:					
Applicable Codes:	Florida Building Code – 2023 (8 th Edition)		ASCE-7-22	TIA-222-H	
Wind Speed:	Vult = 161 mph (3 Second Gust)				
Exposure Category:	C	Risk Category:	II	Radial Ice Thickness:	0.0"
W _{tornado} = 50 mph		Topographic Category:	I	Seismic Response:	S _s = 0.058 S ₁ = 0.026

The tower shall be designed by a licensed Florida State Professional Engineer meeting the aforementioned criteria.

The center of the tower is approximately 35.6' from the closest property line. The tower is to be designed/ constructed such that in the unlikely event of a tower failure the tower shall collapse within 35', i.e. within the parent tract. The resultant tower fall zone radius of 35' will be entirely on the subject property.

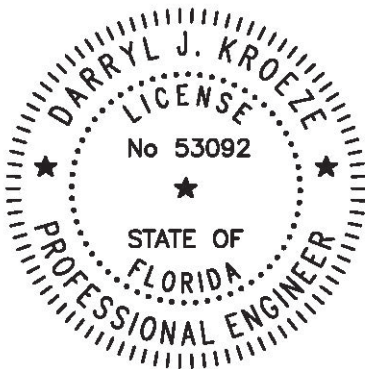
We appreciate the opportunity to continue Professional Services to you. Please do not hesitate to contact me with any questions or comments.

Sincerely,
GEN3 Engineering, Inc.



Darryl J, Kroeze, P.E.
Florida Registration Number: 53092

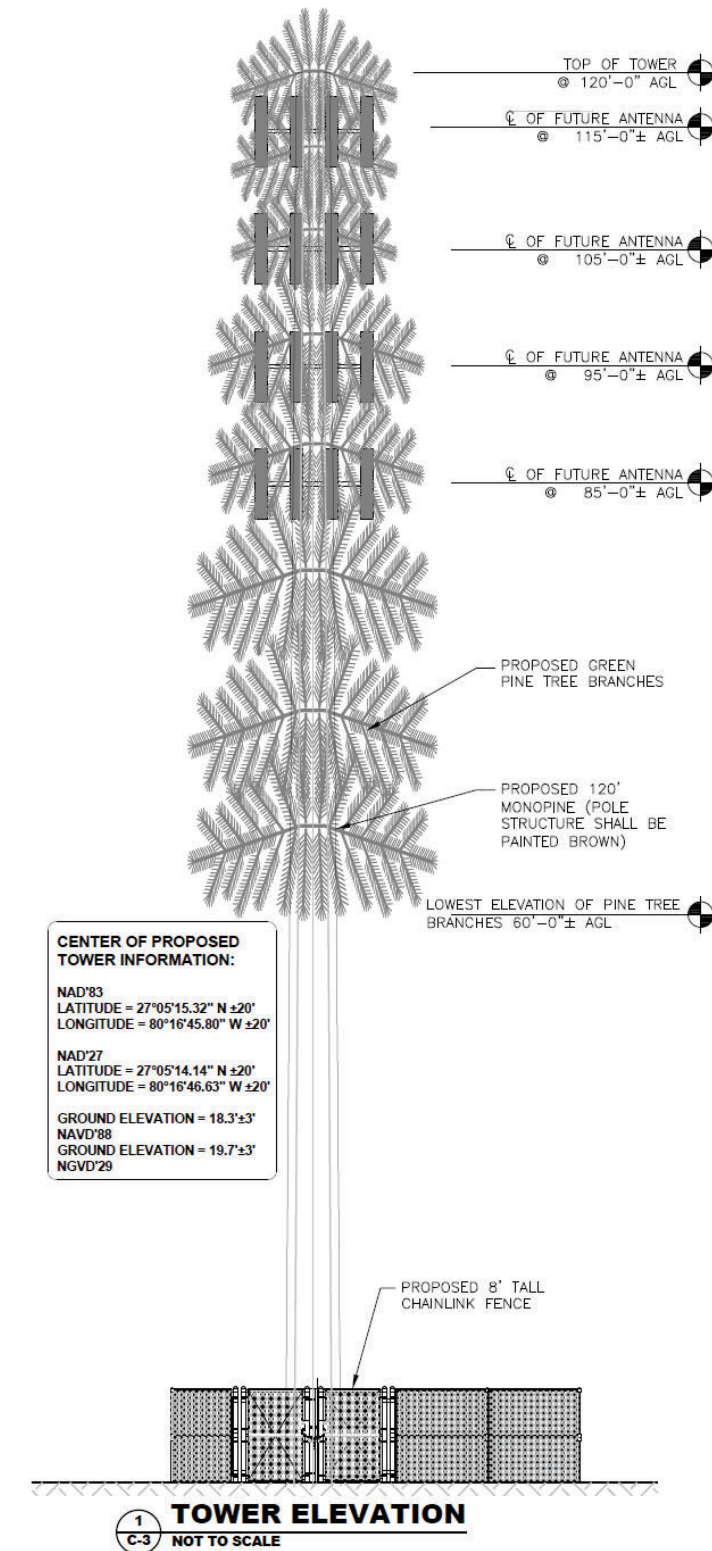
Attachments: Tower Elevation Graphical Depiction
ASCE 07-22 Hazard Print Out



THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY DARRYL J. KROEZE, P.E., FL LICENSE NUMBER 53092 USING A DIGITAL SIGNATURE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ELECTRONIC COPIES.

Friday, March 6, 2026

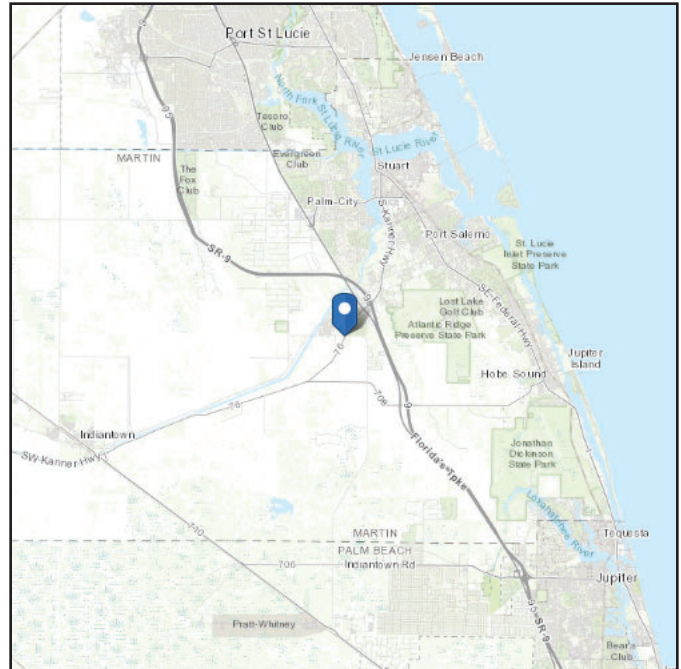
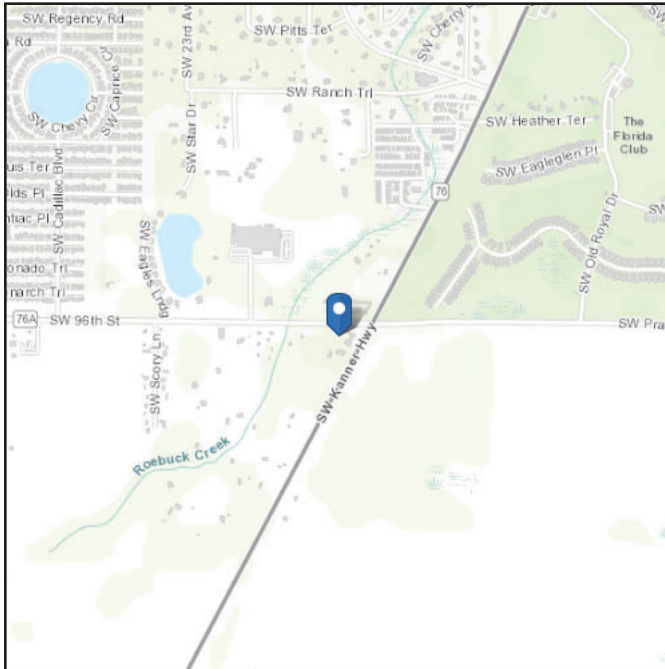


ASCE Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-22
Risk Category: II
Soil Class: Default

Latitude: 27.087589
Longitude: -80.279389
Elevation: 19.923857514203842 ft (NAVD 88)



Wind

Results:

Wind Speed	161 Vmph
10-year MRI	78 Vmph
25-year MRI	108 Vmph
50-year MRI	122 Vmph
100-year MRI	133 Vmph
300-year MRI	149 Vmph
700-year MRI	161 Vmph
1,700-year MRI	173 Vmph
3,000-year MRI	182 Vmph
10,000-year MRI	192 Vmph
100,000-year MRI	217 Vmph
1,000,000-year MRI	236 Vmph

Data Source: ASCE/SEI 7-22, Fig. 26.5-1B and Figs. CC.2-1-CC.2-4, and Section 26.5.2
Date Accessed: Fri Mar 06 2026



Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-22 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years). Values for 10-year MRI, 25-year MRI, 50-year MRI and 100-year MRI are Service Level wind speeds, all other wind speeds are Ultimate wind speeds.

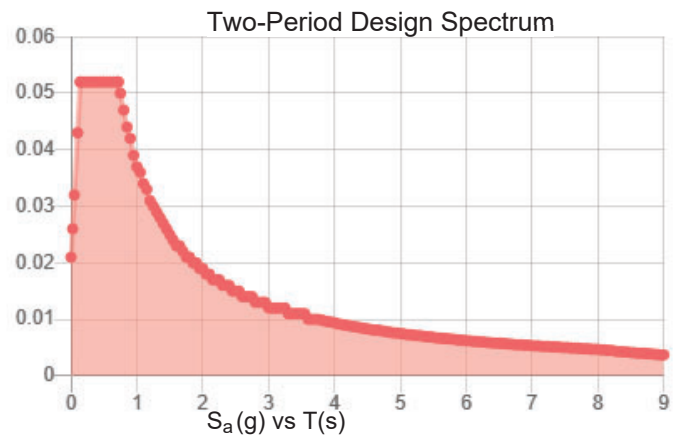
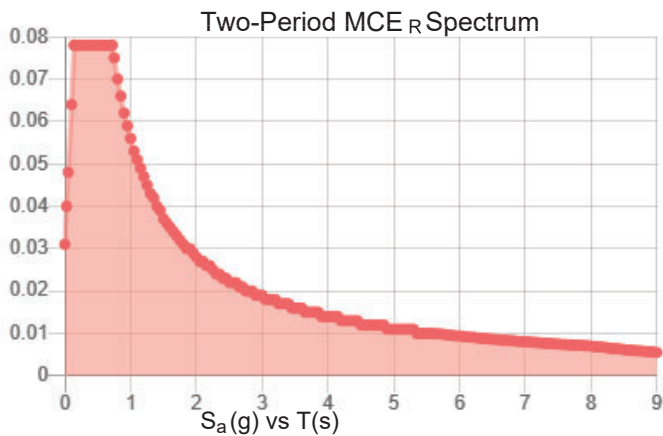
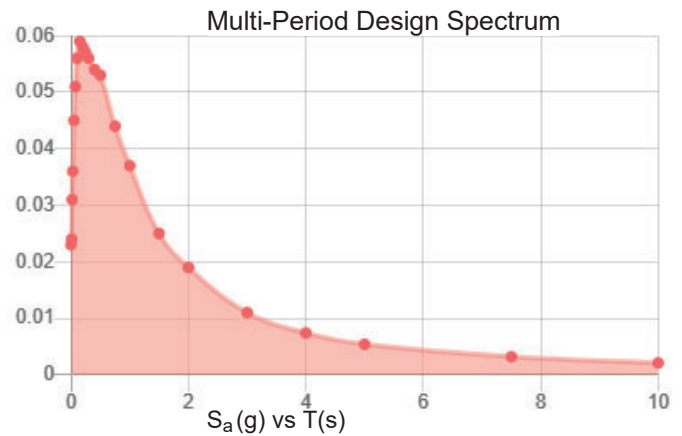
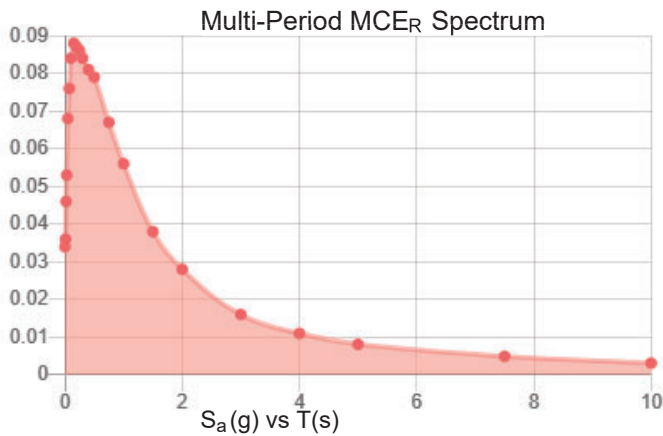
Site is in a hurricane-prone region as defined in ASCE/SEI 7-22 Section 26.2. Glazed openings shall be protected against wind-borne debris as specified in Section 26.12.3.

Site Soil Class: Default

Results:

PGA _M :	0.03	T _L :	8
S _{MS} :	0.078	S _S :	0.058
S _{M1} :	0.056	S ₁ :	0.026
S _{DS} :	0.052	V _{S30} :	260
S _{D1} :	0.037		

Seismic Design Category: A



MCE_R Vertical Response Spectrum
Vertical ground motion data has not yet been made available by USGS.

Design Vertical Response Spectrum
Vertical ground motion data has not yet been made available by USGS.

Data Accessed: Fri Mar 06 2026

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-22 and ASCE/SEI 7-22 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-22 Ch. 21 are available from USGS.

The ASCE Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE Hazard Tool.

DESIGN SUBMITTAL

Proposed 120-Ft Pine Tree Monopole

PJF Project No.: A62624-0004.001.7200

Site Name: SR76 & 711
Location: Stuart, FL 72751
Year of Mfr: 2024
Lat/Long: 27° 05' 15.32"
-80° 16' 45.80"

Prepared For:

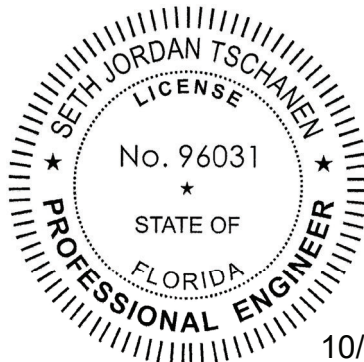


Expert Construction Managers, Inc.

815 South Kings AVE
Brandon, FL 33511

October 31, 2024

Designed By:
Thomas J. Dehnke, P.E.
Project Manager
tdehnke@pauljford.com *TJH*



10/31/2024

This item has been digitally signed and sealed by Seth J. Tschanen on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

250 E Broad St, Suite 600
Columbus, OH 43215
Phone 614.221.6679

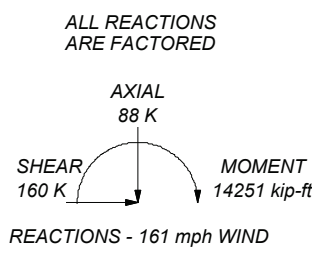
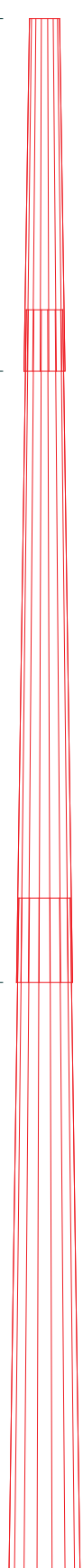
Section	1	2	3	
Length (ft)	27.2500	52.0000	52.0000	
Number of Sides	18	18	18	
Thickness (in)	0.4375	0.5625	0.7500	
Socket Length (ft)	4.7500	6.5000		
Top Dia (in)	28.0000	34.7189	48.9502	
Bot Dia (in)	37.1970	52.2890	66.5000	
Grade		A572-65		
Weight (K)	4.1	13.6	24.0	41.7

120.0 ft

92.8 ft

45.5 ft

0.0 ft



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Branches	120.25	Branches	100
Site Pro 1_F3P-12-WLL_Platform	115	20,000 Sq*in (139 Sq Ft)	95
Site Pro 1_F3P-HRK12_Handrail Kit	115	Site Pro 1_F3P-12-WLL_Platform	95
20,000 Sq*in (139 Sq Ft)	115	Branches	90
Branches	110	15,000 Sq*in (105 Sq Ft)	85
Site Pro1_F4P-HRK12_Handrail Kit	105	Site Pro 1_F3P-12-WLL_Platform	85
20,000 Sq*in (139 Sq Ft)	105	Branches	72.25
Site Pro1_F4P-12[W]_Platform	105		

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 161 mph basic wind in accordance with the TIA-222-H Standard.
3. Deflections are based upon a 60 mph wind.
4. Tower Risk Category II.
5. Topographic Category 1 with Crest Height of 0.0000 ft
6. TOWER RATING: 94.2%

Paul J. Ford & Company
250 East Broad Street, Suite 600
Columbus, OH 43215
Phone: 614.221.6679
FAX:

Job: **120-Ft Mono-Pine / SR76&711**
Project: **62624-0004.001.7200 / FL-5343**
Client: Expert Construction
Code: TIA-222-H
Path: G:\TOWER\K26_Expert Construction\2024\62624-0004_160_TB & 111\62624-0004.001.7200_Final\62624-0004.001.7200.dwg

Drawn by: tdehnke
Date: 10/31/24
Scale: NTS
Dwg No. E-1

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	Client	Expert Construction	Designed by	tdehnke

Tower Input Data

The tower is a monopole.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

Tower base elevation above sea level: 0.0000 ft.

Basic wind speed of 161 mph.

Risk Category II.

Exposure Category C.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.0000 ft.

Deflections calculated using a wind speed of 60 mph.

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

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

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

Options

Consider Moments - Legs	Distribute Leg Loads As Uniform	Use ASCE 10 X-Brace Ly Rules
Consider Moments - Horizontals	Assume Legs Pinned	Calculate Redundant Bracing Forces
Consider Moments - Diagonals	√ Assume Rigid Index Plate	Ignore Redundant Members in FEA
Use Moment Magnification	√ Use Clear Spans For Wind Area	SR Leg Bolts Resist Compression
√ Use Code Stress Ratios	Use Clear Spans For KL/r	All Leg Panels Have Same Allowable
√ Use Code Safety Factors - Guys	Retension Guys To Initial Tension	Offset Girt At Foundation
Escalate Ice	√ Bypass Mast Stability Checks	√ Consider Feed Line Torque
Always Use Max Kz	√ Use Azimuth Dish Coefficients	Include Angle Block Shear Check
Use Special Wind Profile	√ Project Wind Area of Appurt.	Use TIA-222-H Bracing Resist. Exemption
Include Bolts In Member Capacity	Autocalc Torque Arm Areas	Use TIA-222-H Tension Splice Exemption
Leg Bolts Are At Top Of Section	Add IBC .6D+W Combination	Poles
Secondary Horizontal Braces Leg	Sort Capacity Reports By Component	√ Include Shear-Torsion Interaction
Use Diamond Inner Bracing (4 Sided)	Triangulate Diamond Inner Bracing	Always Use Sub-Critical Flow
SR Members Have Cut Ends	√ Treat Feed Line Bundles As Cylinder	Use Top Mounted Sockets
SR Members Are Concentric	Ignore KL/ry For 60 Deg. Angle Legs	Pole Without Linear Attachments
		Pole With Shroud Or No Appurtenances
		Outside and Inside Corner Radii Are
		Known

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	120.0000-92.7500	27.2500	4.75	18	28.0000	37.1970	0.4375	1.7500	A572-65 (65 ksi)
L2	92.7500-45.5000	52.0000	6.50	18	34.7189	52.2690	0.5625	2.2500	A572-65 (65 ksi)
L3	45.5000-0.0000	52.0000		18	48.9502	66.5000	0.7500	3.0000	A572-65 (65 ksi)

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	Client	Expert Construction	Designed by	tdehnke

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L1	28.3645	38.2740	3673.4848	9.7847	14.2240	258.2596	7351.8033	19.1406	4.1580	9.504
	37.7033	51.0452	8714.2741	13.0496	18.8961	461.1685	17440.0147	25.5274	5.7767	13.204
L2	36.7955	60.9819	8988.3791	12.1255	17.6372	509.6268	17988.5853	30.4967	5.1205	9.103
	52.9886	92.3155	31181.8820	18.3558	26.5527	1174.3415	62404.7939	46.1665	8.2093	14.594
L3	51.8172	114.7407	33678.5218	17.1111	24.8667	1354.3614	67401.3587	57.3812	7.2952	9.727
	67.4102	156.5179	85485.5888	23.3412	33.7820	2530.5070	171083.661	78.2738	10.3840	13.845
						8				

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontal in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
L1 120.0000-92.7 500				1	1	1			
L2 92.7500-45.50 00				1	1	1			
L3 45.5000-0.000 0				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight klf
**											

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _A A _A ft ² /ft	Weight klf
LDF7-50A (1 5/8" foam) **	C	No	No	Inside Pole	115.0000 - 0.0000	12	No Ice	0.0000	0.00
LDF7-50A (1 5/8" foam) **	C	No	No	Inside Pole	105.0000 - 0.0000	12	No Ice	0.0000	0.00
LDF7-50A (1 5/8" foam) **	C	No	No	Inside Pole	95.0000 - 0.0000	12	No Ice	0.0000	0.00
LDF7-50A (1 5/8" foam) **	C	No	No	Inside Pole	85.0000 - 0.0000	12	No Ice	0.0000	0.00

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Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C _{AA} ft ² /ft	Weight klf
foam) **					0.0000			

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
L1	120.0000-92.7500	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.41
L2	92.7500-45.5000	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	2.00
L3	45.5000-0.0000	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	2.01

Feed Line Center of Pressure

Section	Elevation ft	CP _X in	CP _Z in	CP _X Ice in	CP _Z Ice in
L1	120.0000-92.7500	0.0000	0.0000	0.0000	0.0000
L2	92.7500-45.5000	0.0000	0.0000	0.0000	0.0000
L3	45.5000-0.0000	0.0000	0.0000	0.0000	0.0000

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
20,000 Sq*in (139 Sq Ft)	C	None		0.0000	115.0000	No Ice	139.0000	2.50
Site Pro	C	None		0.0000	115.0000	No Ice	26.2000	2.79
1_F3P-12-WLL_Platform								
Site Pro	C	None		0.0000	115.0000	No Ice	5.3800	0.41
1_F3P-HRK12_Handrail Kit								
**								
20,000 Sq*in (139 Sq Ft)	C	None		0.0000	105.0000	No Ice	139.0000	2.50

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
Site	C	None		0.0000	105.0000	No Ice	38.8300	38.8300	2.64
Pro1_F4P-12[W]_Platform	C	None		0.0000	105.0000	No Ice	5.6800	5.6800	0.51
Site	C	None							
Pro1_F4P-HRK12_Handrail	C	None							
Kit	C	None							
**	C	None							
20,000 Sq*in (139 Sq Ft)	C	None		0.0000	95.0000	No Ice	139.0000	139.0000	2.50
Site Pro	C	None		0.0000	95.0000	No Ice	26.2000	26.2000	2.79
1_F3P-12-WLL_Platform	C	None							
**	C	None							
15,000 Sq*in (105 Sq Ft)	C	None		0.0000	85.0000	No Ice	105.0000	105.0000	2.00
Site Pro	C	None		0.0000	85.0000	No Ice	26.2000	26.2000	2.79
1_F3P-12-WLL_Platform	C	None							
**	C	None							
Branches	C	None		0.0000	120.2500	No Ice	85.4400	85.4400	0.53
Branches	C	None		0.0000	110.0000	No Ice	100.2500	100.2500	0.63
Branches	C	None		0.0000	100.0000	No Ice	119.0800	119.0800	0.74
Branches	C	None		0.0000	90.0000	No Ice	137.9100	137.9100	0.86
Branches	C	None		0.0000	72.2500	No Ice	466.4000	466.4000	2.92

Tower Pressures - No Ice

$$G_H = 1.100$$

Section Elevation	z	K _Z	q _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
ft	ft		psf	ft ²		ft ²	ft ²	ft ²		ft ²	ft ²
L1	105.7343	1.281	80.72	75.014	A	0.000	75.014	75.014	100.00	0.000	0.000
120.0000-92.7			7		B	0.000	75.014		100.00	0.000	0.000
500					C	0.000	75.014		100.00	0.000	0.000
L2	68.1315	1.167	73.31	176.762	A	0.000	176.762	176.762	100.00	0.000	0.000
92.7500-45.50			3		B	0.000	176.762		100.00	0.000	0.000
00					C	0.000	176.762		100.00	0.000	0.000
L3	22.7231	0.926	58.22	226.035	A	0.000	226.035	226.035	100.00	0.000	0.000
45.5000-0.000			7		B	0.000	226.035		100.00	0.000	0.000
0					C	0.000	226.035		100.00	0.000	0.000

Tower Pressure - Service

$$G_H = 1.100$$

Section Elevation	z	K _Z	q _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
ft	ft		psf	ft ²		ft ²	ft ²	ft ²		ft ²	ft ²
L1	105.7343	1.281	10.03	75.014	A	0.000	75.014	75.014	100.00	0.000	0.000

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Section Elevation	z	K _Z	q _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
ft	ft		psf	ft ²		ft ²	ft ²	ft ²			
120.0000-92.7			1		B	0.000	75.014		100.00	0.000	0.000
500					C	0.000	75.014		100.00	0.000	0.000
L2	68.1315	1.167	9.110	176.762	A	0.000	176.762	176.762	100.00	0.000	0.000
92.7500-45.50					B	0.000	176.762		100.00	0.000	0.000
00					C	0.000	176.762		100.00	0.000	0.000
L3	22.7231	0.926	7.235	226.035	A	0.000	226.035	226.035	100.00	0.000	0.000
45.5000-0.000					B	0.000	226.035		100.00	0.000	0.000
0					C	0.000	226.035		100.00	0.000	0.000

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	Dead+Wind 0 deg - Service
27	Dead+Wind 30 deg - Service
28	Dead+Wind 60 deg - Service
29	Dead+Wind 90 deg - Service
30	Dead+Wind 120 deg - Service
31	Dead+Wind 150 deg - Service
32	Dead+Wind 180 deg - Service
33	Dead+Wind 210 deg - Service
34	Dead+Wind 240 deg - Service
35	Dead+Wind 270 deg - Service
36	Dead+Wind 300 deg - Service
37	Dead+Wind 330 deg - Service

Maximum Member Forces

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	120 - 92.75	Pole	Max Tension	7	0.05	-9.80	5.66
			Max. Compression	1	-16.91	0.00	0.00
			Max. M _x	8	-15.12	-767.54	0.00
			Max. M _y	2	-15.12	0.00	767.54
			Max. V _y	8	64.27	-767.54	0.00
			Max. V _x	2	-64.27	0.00	767.54
			Max. Torque	6			0.00
L2	92.75 - 45.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	2	-47.18	0.00	6155.49
			Max. M _x	8	-47.18	-6155.49	0.00
			Max. M _y	2	-47.18	0.00	6155.49
			Max. V _y	8	150.40	-6155.49	0.00
			Max. V _x	2	-150.40	0.00	6155.49
			Max. Torque	4			-0.00
L3	45.5 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	4	-87.69	-7125.30	12341.38
			Max. M _x	8	-87.68	-14250.04	0.00
			Max. M _y	2	-87.68	0.00	14250.04
			Max. V _y	8	160.36	-14250.04	0.00
			Max. V _x	2	-160.36	0.00	14250.04
			Max. Torque	6			0.00

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	4	87.85	-80.14	138.81
	Max. H _x	21	65.88	160.28	0.00
	Max. H _z	3	65.88	0.00	160.28
	Max. M _x	2	14250.04	0.00	160.28
	Max. M _z	8	14250.04	-160.28	0.00
	Max. Torsion	6	0.00	-138.81	80.14
	Min. Vert	3	65.88	0.00	160.28
	Min. H _x	9	65.88	-160.28	0.00
	Min. H _z	15	65.88	0.00	-160.28
	Min. M _x	14	-14250.04	0.00	-160.28
	Min. M _z	20	-14250.04	160.28	0.00
	Min. Torsion	10	-0.00	-138.81	-80.14

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	73.20	0.00	0.00	0.00	0.00	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	87.85	0.00	-160.28	-14250.04	0.00	0.00
0.9 Dead+1.0 Wind 0 deg - No Ice	65.88	0.00	-160.28	-14195.45	0.00	0.00
1.2 Dead+1.0 Wind 30 deg - No Ice	87.85	80.14	-138.81	-12341.38	-7125.30	0.00
0.9 Dead+1.0 Wind 30 deg - No Ice	65.88	80.14	-138.81	-12293.97	-7097.92	0.00

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<i>Load Combination</i>	<i>Vertical K</i>	<i>Shear_x K</i>	<i>Shear_z K</i>	<i>Overturning Moment, M_x kip-ft</i>	<i>Overturning Moment, M_z kip-ft</i>	<i>Torque kip-ft</i>
Ice						
1.2 Dead+1.0 Wind 60 deg - No Ice	87.85	138.81	-80.14	-7125.30	-12341.38	-0.00
0.9 Dead+1.0 Wind 60 deg - No Ice	65.88	138.81	-80.14	-7097.92	-12293.97	-0.00
1.2 Dead+1.0 Wind 90 deg - No Ice	87.85	160.28	0.00	0.00	-14250.04	0.00
0.9 Dead+1.0 Wind 90 deg - No Ice	65.88	160.28	0.00	0.00	-14195.45	0.00
1.2 Dead+1.0 Wind 120 deg - No Ice	87.85	138.81	80.14	7125.30	-12341.38	0.00
0.9 Dead+1.0 Wind 120 deg - No Ice	65.88	138.81	80.14	7097.92	-12293.97	0.00
1.2 Dead+1.0 Wind 150 deg - No Ice	87.85	80.14	138.81	12341.38	-7125.30	-0.00
0.9 Dead+1.0 Wind 150 deg - No Ice	65.88	80.14	138.81	12293.97	-7097.92	-0.00
1.2 Dead+1.0 Wind 180 deg - No Ice	87.85	0.00	160.28	14250.04	0.00	0.00
0.9 Dead+1.0 Wind 180 deg - No Ice	65.88	0.00	160.28	14195.45	0.00	0.00
1.2 Dead+1.0 Wind 210 deg - No Ice	87.85	-80.14	138.81	12341.38	7125.30	0.00
0.9 Dead+1.0 Wind 210 deg - No Ice	65.88	-80.14	138.81	12293.97	7097.92	0.00
1.2 Dead+1.0 Wind 240 deg - No Ice	87.85	-138.81	80.14	7125.30	12341.38	-0.00
0.9 Dead+1.0 Wind 240 deg - No Ice	65.88	-138.81	80.14	7097.92	12293.97	-0.00
1.2 Dead+1.0 Wind 270 deg - No Ice	87.85	-160.28	0.00	0.00	14250.04	0.00
0.9 Dead+1.0 Wind 270 deg - No Ice	65.88	-160.28	0.00	0.00	14195.45	0.00
1.2 Dead+1.0 Wind 300 deg - No Ice	87.85	-138.81	-80.14	-7125.30	12341.38	0.00
0.9 Dead+1.0 Wind 300 deg - No Ice	65.88	-138.81	-80.14	-7097.92	12293.97	0.00
1.2 Dead+1.0 Wind 330 deg - No Ice	87.85	-80.14	-138.81	-12341.38	7125.30	-0.00
0.9 Dead+1.0 Wind 330 deg - No Ice	65.88	-80.14	-138.81	-12293.97	7097.92	-0.00
Dead+Wind 0 deg - Service	73.20	0.00	-19.92	-1768.24	0.00	0.00
Dead+Wind 30 deg - Service	73.20	9.96	-17.25	-1531.34	-884.12	0.00
Dead+Wind 60 deg - Service	73.20	17.25	-9.96	-884.12	-1531.34	-0.00
Dead+Wind 90 deg - Service	73.20	19.92	0.00	0.00	-1768.24	0.00
Dead+Wind 120 deg - Service	73.20	17.25	9.96	884.12	-1531.34	0.00
Dead+Wind 150 deg - Service	73.20	9.96	17.25	1531.34	-884.12	-0.00
Dead+Wind 180 deg - Service	73.20	0.00	19.92	1768.24	0.00	0.00
Dead+Wind 210 deg - Service	73.20	-9.96	17.25	1531.34	884.12	0.00
Dead+Wind 240 deg - Service	73.20	-17.25	9.96	884.12	1531.34	-0.00
Dead+Wind 270 deg - Service	73.20	-19.92	0.00	0.00	1768.24	0.00
Dead+Wind 300 deg - Service	73.20	-17.25	-9.96	-884.12	1531.34	0.00
Dead+Wind 330 deg - Service	73.20	-9.96	-17.25	-1531.34	884.12	-0.00

Solution Summary

tnxTower Paul J. Ford & Company 250 East Broad Street, Suite 600 Columbus, OH 43215 Phone: 614.221.6679 FAX:	Job	120-Ft Mono-Pine / SR76&711	Page	8 of 11
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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-73.20	0.00	0.00	73.20	0.00	0.000%
2	0.00	-87.85	-160.28	0.00	87.85	160.28	0.003%
3	0.00	-65.88	-160.28	0.00	65.88	160.28	0.002%
4	80.14	-87.85	-138.81	-80.14	87.85	138.81	0.000%
5	80.14	-65.88	-138.81	-80.14	65.88	138.81	0.000%
6	138.81	-87.85	-80.14	-138.81	87.85	80.14	0.000%
7	138.81	-65.88	-80.14	-138.81	65.88	80.14	0.000%
8	160.28	-87.85	0.00	-160.28	87.85	0.00	0.003%
9	160.28	-65.88	0.00	-160.28	65.88	0.00	0.002%
10	138.81	-87.85	80.14	-138.81	87.85	-80.14	0.000%
11	138.81	-65.88	80.14	-138.81	65.88	-80.14	0.000%
12	80.14	-87.85	138.81	-80.14	87.85	-138.81	0.000%
13	80.14	-65.88	138.81	-80.14	65.88	-138.81	0.000%
14	0.00	-87.85	160.28	0.00	87.85	-160.28	0.003%
15	0.00	-65.88	160.28	0.00	65.88	-160.28	0.002%
16	-80.14	-87.85	138.81	80.14	87.85	-138.81	0.000%
17	-80.14	-65.88	138.81	80.14	65.88	-138.81	0.000%
18	-138.81	-87.85	80.14	138.81	87.85	-80.14	0.000%
19	-138.81	-65.88	80.14	138.81	65.88	-80.14	0.000%
20	-160.28	-87.85	0.00	160.28	87.85	0.00	0.003%
21	-160.28	-65.88	0.00	160.28	65.88	0.00	0.002%
22	-138.81	-87.85	-80.14	138.81	87.85	80.14	0.000%
23	-138.81	-65.88	-80.14	138.81	65.88	80.14	0.000%
24	-80.14	-87.85	-138.81	80.14	87.85	138.81	0.000%
25	-80.14	-65.88	-138.81	80.14	65.88	138.81	0.000%
26	0.00	-73.20	-19.92	0.00	73.20	19.92	0.001%
27	9.96	-73.20	-17.25	-9.96	73.20	17.25	0.001%
28	17.25	-73.20	-9.96	-17.25	73.20	9.96	0.001%
29	19.92	-73.20	0.00	-19.92	73.20	0.00	0.001%
30	17.25	-73.20	9.96	-17.25	73.20	-9.96	0.001%
31	9.96	-73.20	17.25	-9.96	73.20	-17.25	0.001%
32	0.00	-73.20	19.92	0.00	73.20	-19.92	0.001%
33	-9.96	-73.20	17.25	9.96	73.20	-17.25	0.001%
34	-17.25	-73.20	9.96	17.25	73.20	-9.96	0.001%
35	-19.92	-73.20	0.00	19.92	73.20	0.00	0.001%
36	-17.25	-73.20	-9.96	17.25	73.20	9.96	0.001%
37	-9.96	-73.20	-17.25	9.96	73.20	17.25	0.001%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	6	0.00000001	0.00000001
2	Yes	8	0.00003754	0.00014153
3	Yes	8	0.00000001	0.00011281
4	Yes	11	0.00000001	0.00005696
5	Yes	11	0.00000001	0.00003892
6	Yes	11	0.00000001	0.00005696
7	Yes	11	0.00000001	0.00003892
8	Yes	8	0.00003754	0.00014153
9	Yes	8	0.00000001	0.00011281
10	Yes	11	0.00000001	0.00005696
11	Yes	11	0.00000001	0.00003892
12	Yes	11	0.00000001	0.00005696
13	Yes	11	0.00000001	0.00003892
14	Yes	8	0.00003754	0.00014153

<i>tnxTower</i> <i>Paul J. Ford & Company</i> 250 East Broad Street, Suite 600 Columbus, OH 43215 Phone: 614.221.6679 FAX:	Job	120-Ft Mono-Pine / SR76&711	Page	9 of 11
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15	Yes	8	0.00000001	0.00011281
16	Yes	11	0.00000001	0.00005696
17	Yes	11	0.00000001	0.00003892
18	Yes	11	0.00000001	0.00005696
19	Yes	11	0.00000001	0.00003892
20	Yes	8	0.00003754	0.00014153
21	Yes	8	0.00000001	0.00011281
22	Yes	11	0.00000001	0.00005696
23	Yes	11	0.00000001	0.00003892
24	Yes	11	0.00000001	0.00005696
25	Yes	11	0.00000001	0.00003892
26	Yes	8	0.00000001	0.00004350
27	Yes	8	0.00000001	0.00004959
28	Yes	8	0.00000001	0.00004959
29	Yes	8	0.00000001	0.00004350
30	Yes	8	0.00000001	0.00004959
31	Yes	8	0.00000001	0.00004959
32	Yes	8	0.00000001	0.00004350
33	Yes	8	0.00000001	0.00004959
34	Yes	8	0.00000001	0.00004959
35	Yes	8	0.00000001	0.00004350
36	Yes	8	0.00000001	0.00004959
37	Yes	8	0.00000001	0.00004959

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	120 - 92.75	9.0183	26	0.6096	0.0000
L2	97.5 - 45.5	6.1926	26	0.5759	0.0000
L3	52 - 0	1.7545	26	0.3112	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
120.2500	Branches	26	9.0183	0.6096	0.0000	85775
115.0000	20,000 Sq*in (139 Sq Ft)	26	8.3792	0.6057	0.0000	85775
110.0000	Branches	26	7.7435	0.6008	0.0000	42887
105.0000	20,000 Sq*in (139 Sq Ft)	26	7.1148	0.5935	0.0000	28591
100.0000	Branches	26	6.4967	0.5829	0.0000	21451
95.0000	20,000 Sq*in (139 Sq Ft)	26	5.8925	0.5677	0.0000	17277
90.0000	Branches	26	5.3057	0.5478	0.0000	14543
85.0000	15,000 Sq*in (105 Sq Ft)	26	4.7395	0.5237	0.0000	12559
72.2500	Branches	26	3.4115	0.4486	0.0000	9317

Maximum Tower Deflections - Design Wind

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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	120 - 92.75	72.6333	8	4.9131	0.0000
L2	97.5 - 45.5	49.8849	8	4.6417	0.0000
L3	52 - 0	14.1390	8	2.5085	0.0000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
120.2500	Branches	8	72.6333	4.9131	0.0000	10809
115.0000	20,000 Sq*in (139 Sq Ft)	8	67.4881	4.8823	0.0000	10809
110.0000	Branches	8	62.3709	4.8422	0.0000	5403
105.0000	20,000 Sq*in (139 Sq Ft)	8	57.3099	4.7838	0.0000	3601
100.0000	Branches	8	52.3330	4.6979	0.0000	2701
95.0000	20,000 Sq*in (139 Sq Ft)	8	47.4683	4.5756	0.0000	2173
90.0000	Branches	8	42.7430	4.4150	0.0000	1826
85.0000	15,000 Sq*in (105 Sq Ft)	8	38.1835	4.2214	0.0000	1575
72.2500	Branches	8	27.4875	3.6157	0.0000	1165

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
L1	120 - 92.75 (1)	TP37.197x28x0.4375	27.2500	0.0000	0.0	48.8190	-15.12	2855.91	0.005
L2	92.75 - 45.5 (2)	TP52.269x34.7189x0.5625	52.0000	0.0000	0.0	88.3988	-47.18	5171.33	0.009
L3	45.5 - 0 (3)	TP66.5x48.9502x0.75	52.0000	0.0000	0.0	156.518	-87.69	9156.30	0.010

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M _{uy} kip-ft	φM _{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
L1	120 - 92.75 (1)	TP37.197x28x0.4375	767.59	2610.20	0.294	0.00	2610.20	0.000
L2	92.75 - 45.5 (2)	TP52.269x34.7189x0.5625	6155.76	6663.61	0.924	0.00	6663.61	0.000
L3	45.5 - 0 (3)	TP66.5x48.9502x0.75	14250.58	15667.00	0.910	0.00	15667.00	0.000

Pole Shear Design Data

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Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	120 - 92.75 (1)	TP37.197x28x0.4375	64.27	856.77	0.075	0.00	2637.85	0.000
L2	92.75 - 45.5 (2)	TP52.269x34.7189x0.5625	150.40	1551.40	0.097	0.00	6726.98	0.000
L3	45.5 - 0 (3)	TP66.5x48.9502x0.75	160.37	2746.89	0.058	0.00	15816.75	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio P_u ϕP_n	Ratio M_{ux} ϕM_{nx}	Ratio M_{uy} ϕM_{ny}	Ratio V_u ϕV_n	Ratio T_u ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	120 - 92.75 (1)	0.005	0.294	0.000	0.075	0.000	0.305	1.000	4.8.2 ✓
L2	92.75 - 45.5 (2)	0.009	0.924	0.000	0.097	0.000	0.942	1.000	4.8.2 ✓
L3	45.5 - 0 (3)	0.010	0.910	0.000	0.058	0.000	0.923	1.000	4.8.2 ✓

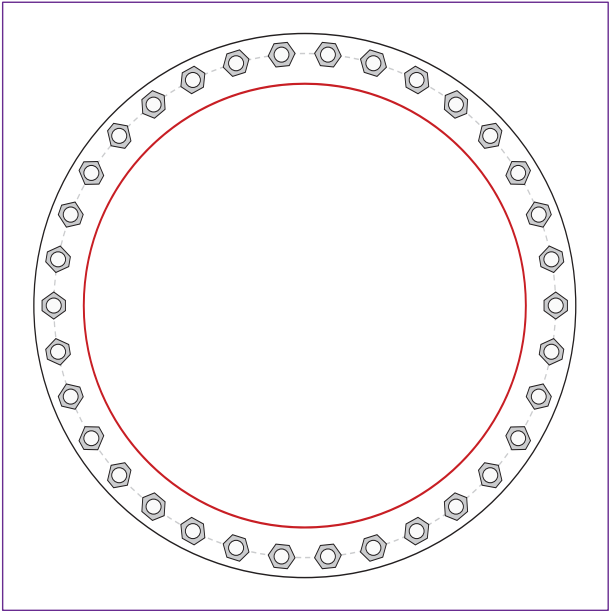
Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	120 - 92.75	Pole	TP37.197x28x0.4375	1	-15.12	2855.91	30.5	Pass
L2	92.75 - 45.5	Pole	TP52.269x34.7189x0.5625	2	-47.18	5171.33	94.2	Pass
L3	45.5 - 0	Pole	TP66.5x48.9502x0.75	3	-87.69	9156.30	92.3	Pass
							Summary	
							Pole (L2)	Pass
							RATING = 94.2	Pass

Monopole Base Plate Connection

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
I_{gr} (in)	2.25

Applied Loads	
Moment (kip-ft)	14250.60
Axial Force (kips)	87.69
Shear Force (kips)	160.37



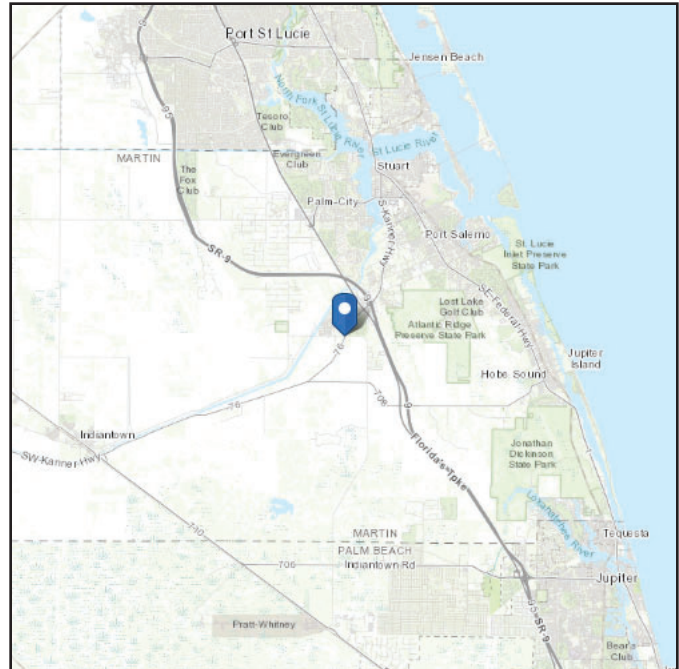
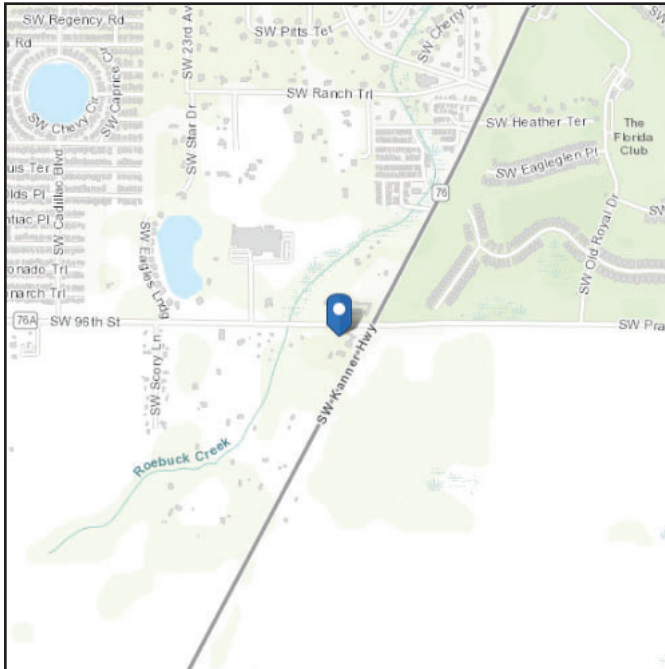
Connection Properties		Analysis Results	
Anchor Rod Data		Anchor Rod Summary (units of kips, kip-in)	
(34) 2-1/4" $\varnothing$ bolts (F1554-105 N; Fy=105 ksi, Fu=125 ksi) on 75.5" BC		Pu_t = 263.79	ϕPn_t = 304.69 Stress Rating
Base Plate Data		Vu = 4.72	ϕVn = 186.38 86.6%
81.5" OD x 3.5" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)		Mu = n/a	ϕMn = n/a Pass
Stiffener Data		Base Plate Summary	
N/A		Max Stress (ksi):	38.63 (Flexural)
Pole Data		Allowable Stress (ksi):	45
66.5" x 0.75" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)		Stress Rating:	85.8% Pass

ASCE Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-22
Risk Category: II
Soil Class: D - Stiff Soil

Latitude: 27.0876
Longitude: -80.2794
Elevation: 18.89984342631728 ft (NAVD 88)



Wind

Results:

Wind Speed	161 Vmph
10-year MRI	78 Vmph
25-year MRI	108 Vmph
50-year MRI	122 Vmph
100-year MRI	133 Vmph
300-year MRI	149 Vmph
700-year MRI	161 Vmph
1,700-year MRI	173 Vmph
3,000-year MRI	182 Vmph
10,000-year MRI	192 Vmph
100,000-year MRI	217 Vmph
1,000,000-year MRI	236 Vmph

Data Source: ASCE/SEI 7-22, Fig. 26.5-1B and Figs. CC.2-1-CC.2-4, and Section 26.5.2
Date Accessed: Thu Oct 17 2024



Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-22 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years). Values for 10-year MRI, 25-year MRI, 50-year MRI and 100-year MRI are Service Level wind speeds, all other wind speeds are Ultimate wind speeds.

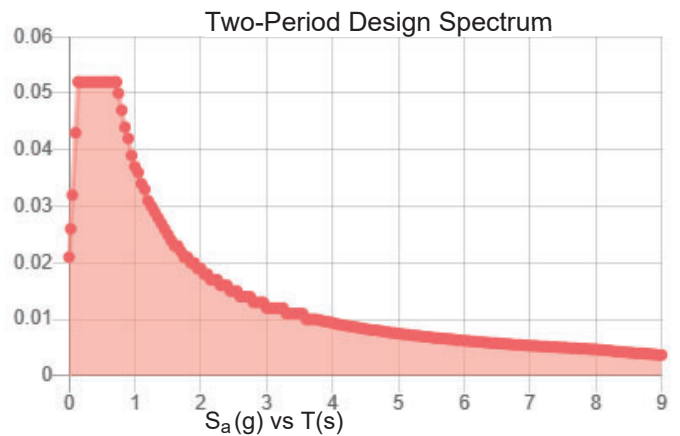
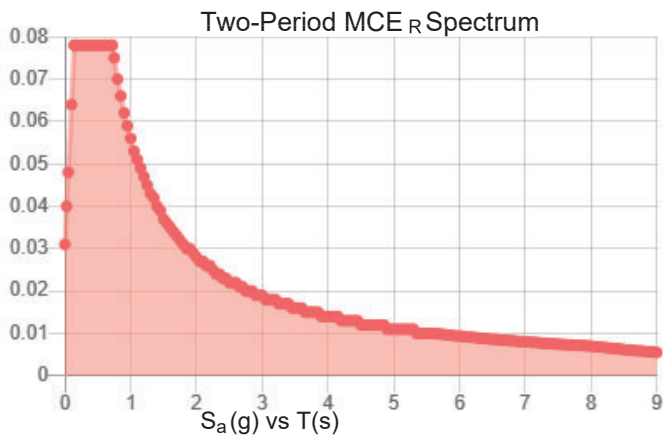
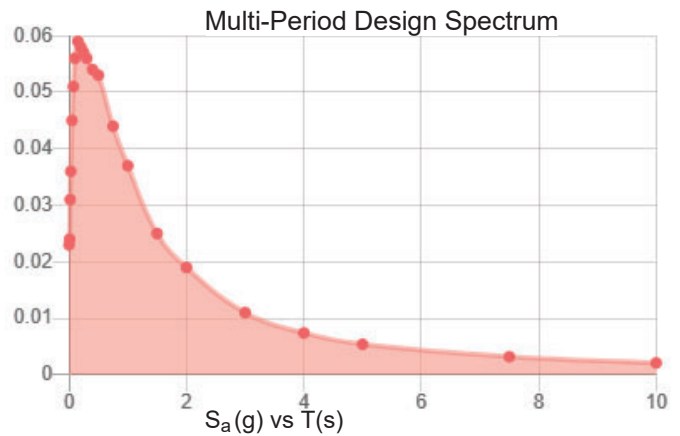
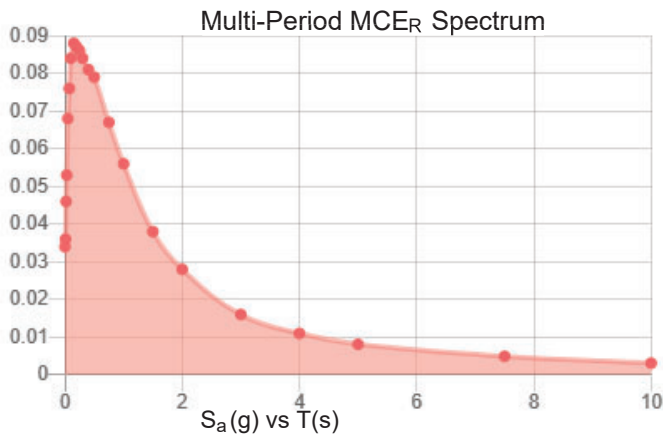
Site is in a hurricane-prone region as defined in ASCE/SEI 7-22 Section 26.2. Glazed openings shall be protected against wind-borne debris as specified in Section 26.12.3.

Site Soil Class: D - Stiff Soil

Results:

PGA _M :	0.03	T _L :	8
S _{MS} :	0.078	S _S :	0.058
S _{M1} :	0.056	S ₁ :	0.026
S _{DS} :	0.052	V _{S30} :	260
S _{D1} :	0.037		

Seismic Design Category: A



MCE_R Vertical Response Spectrum
Vertical ground motion data has not yet been made available by USGS.

Design Vertical Response Spectrum
Vertical ground motion data has not yet been made available by USGS.

Data Accessed: Thu Oct 17 2024

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-22 and ASCE/SEI 7-22 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-22 Ch. 21 are available from USGS.

Results:

Ice Thickness: N/A
Concurrent Temperature: N/A
3-s Gust Speed: N/A

Data Source: Standard ASCE/SEI 7-22, Figs. 10-2 through 10-8

Date Accessed: Thu Oct 17 2024

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain for 250, 500, 1,000, and 1,400-year mean recurrence intervals along with concurrent 3-s gust speeds and concurrent air temperatures. The shading indicates special icing regions, with elevations above 2,100 ft (640 m) in the east, 6,000 ft (1829 m) in the west, and 1,600 ft (488 m) in Alaska, with sparse weather station data for determining design ice loads. In these regions, as well as in regions with complex terrain causing unusual icing conditions and regions where snow or in-cloud icing results in larger loads, the mapped values should be adjusted based on a combination of local historical records and experience, reanalysis data, and numerical weather prediction systems.

The ASCE Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE Hazard Tool.



September 3, 2024

AT&T Mobility
11760 US Highway 1
North Palm Beach, FL 33408

Mr. Sinnott
Senior Planner
Growth Management Department
Martin County Board of County Commissioners

RE: Letter showing need for proposed AT&T sitename FP68 at intersection of SW Kanner Hwy. and SW 96th St. and input to address Article 4, Division 18, Section 4.794.D. of the Martin County LDC.

Mr. Sinnott,

AT&T has an existing and ongoing need for a new wireless facility in the vicinity of the proposed tower, to improve wireless coverage/service to existing customers and those expected to move into the areas future residential developments.

A $\frac{3}{4}$ mile search ring was scrubbed by a site acquisition company for any existing tower or willing landlord and only this one location was identified. A search for all tower types registered with the FCC shows that the closest existing tower is the School Board's 400' self-support tower adjacent to the Florida Turnpike 1.5 miles away.

The following pages contain radio frequency coverage prediction plots of existing AT&T Cellular network coverage as well as that with inclusion of the proposed site having antennas installed in the top section of 120' tower.

If there are any questions, feel free to contact me.

Sincerely,

George Brosseau

George Brosseau
Principal RF Design Engineer
AT&T Mobility – Florida
(561) 312-3000



September 3, 2024

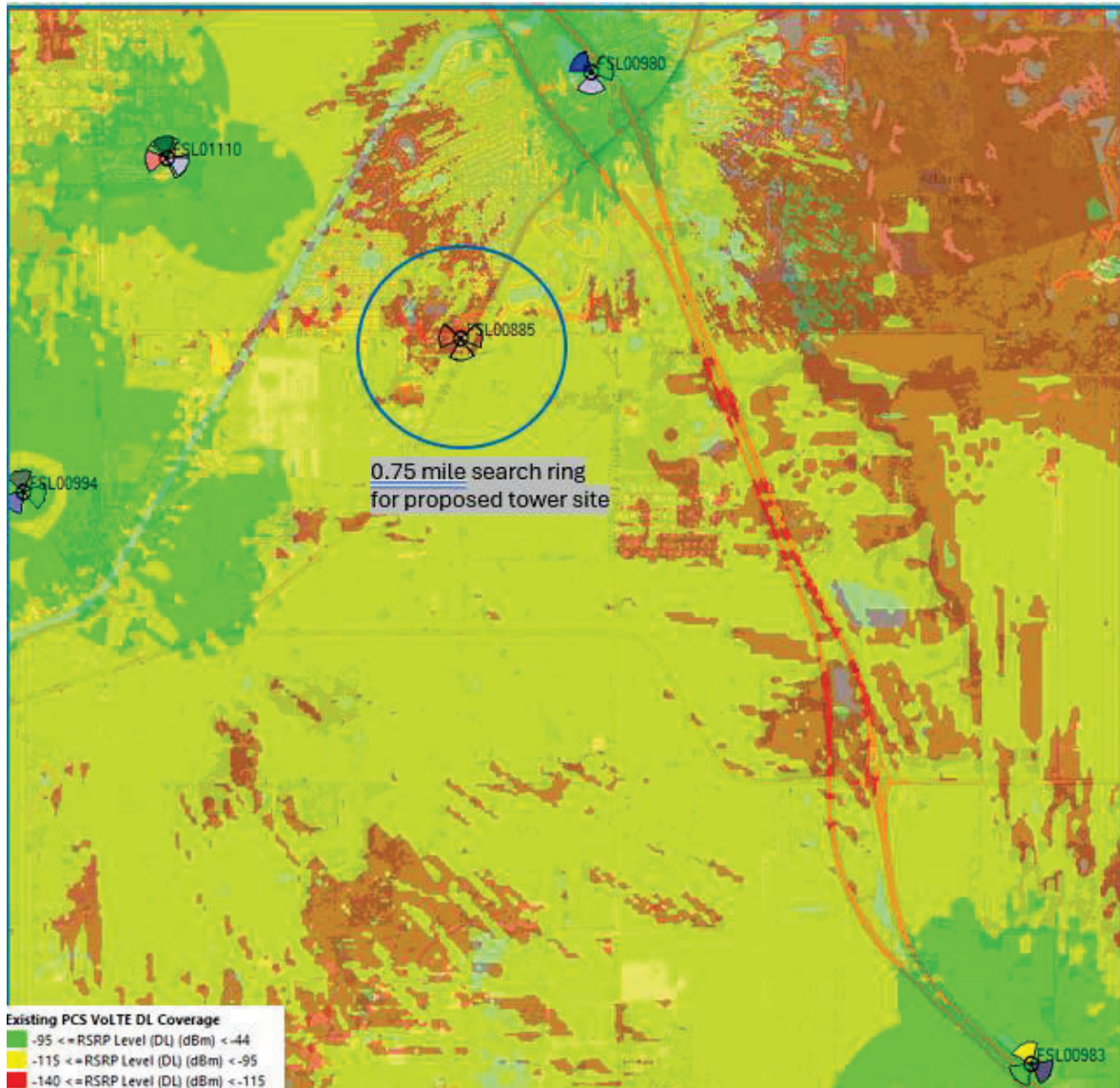
AT&T Mobility
11760 US Highway 1
North Palm Beach, FL 33408

Existing coverage without proposed site:

Green = good outdoor and indoor service

Yellow = useable outdoor, area subject to marginal indoor service

Red = marginal outdoor, poor to no indoor service



As can be seen in the prediction plot above, there are many homes existing and planned in the vicinity of the intersection where service is marginal to poor. That coverage service level is especially true where housing is dense and/or in areas of thick trees. Propagation model does not include clutter layer manipulation to include details of planned residential developments.



September 3, 2024

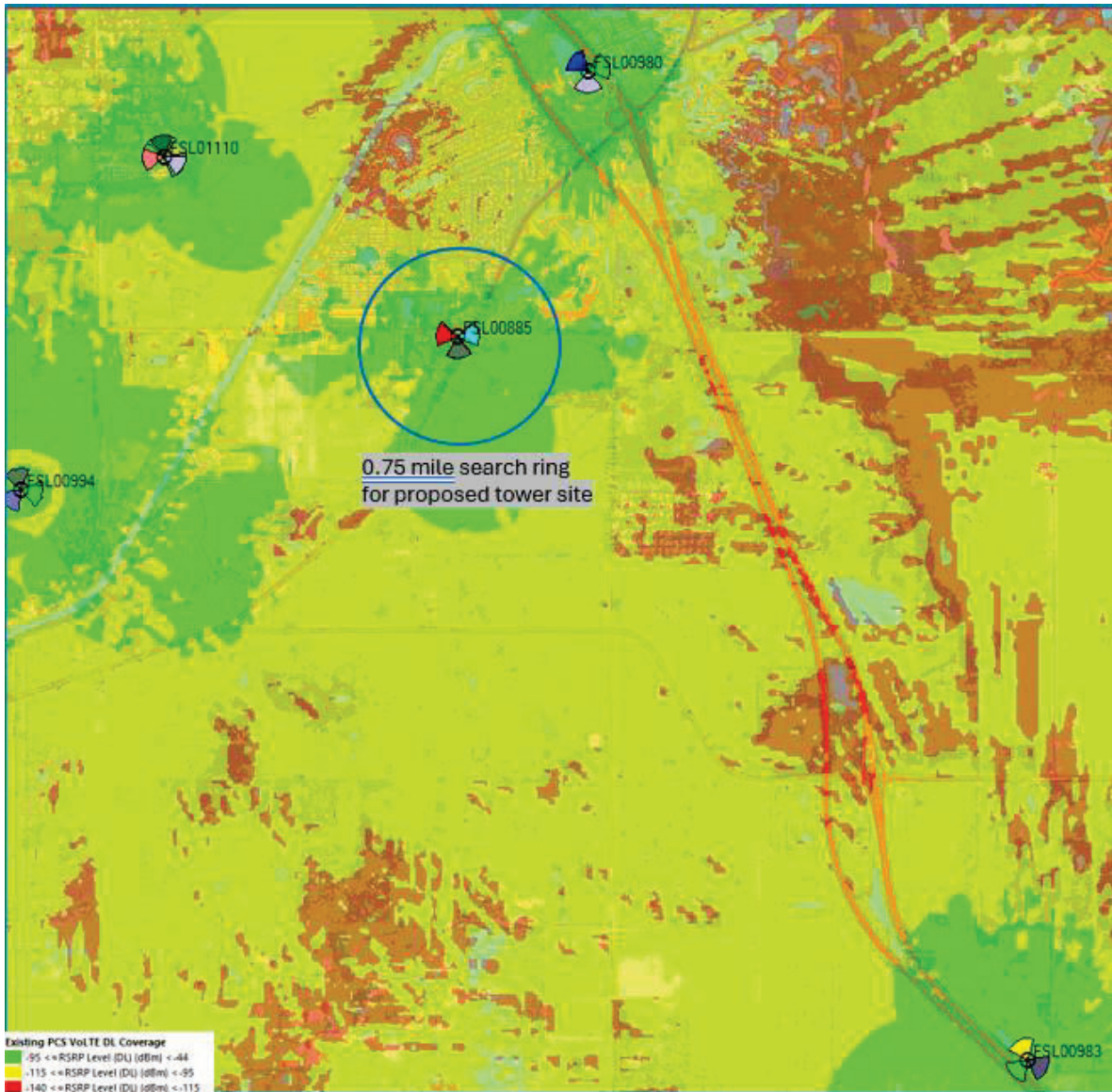
AT&T Mobility
11760 US Highway 1
North Palm Beach, FL 33408

Predicted coverage with proposed site having antennas at 115' above ground level:

Green = good outdoor and indoor service

Yellow = useable outdoor, area subject to marginal indoor service

Red = marginal outdoor, poor to no indoor service



Coverage improvement from the contribution of the proposed site is shown on this plot. It is expected to provide significant improvement to indoor and outdoor coverage in the vicinity of the proposed tower, and higher data throughput speeds in the larger coverage area by offloading cell-edge coverage currently served by surrounding sites. The adjacent agricultural and open-range lands that are expected to be converted into planned urban developments will suffer poor wireless service without a radio tower in the near vicinity for carrier/operators to use.



September 3,2024

AT&T Mobility
11760 US Highway 1
North Palm Beach, FL 33408

Some basic propagation prediction parameters for existing and proposed sites, used in the Atoll propagation model's outputs seen in plots on previous pages:

Sitename, transmitter reference	Antenna Centerline Height (ft)	Antenna Azimuth	Antenna model	Antenna tilt (Mechanical). EDT seen as sufix in antenna model	PA Power (dBm)	Number of MIMO Tx ports
FSL00885_9A_1_LTP	115	280	80010692V01_1950MHz_03DT	0	46.3	4T4R
FSL00885_9B_1_LTP	115	80	80010692V01_1950MHz_03DT	0	46.3	4T4R
FSL00885_9C_1_LTP	115	175	80010692V01_1950MHz_03DT	0	46.3	4T4R
FSL00980_9A_1	228	310	SBNHH-1D85B_1950MHz_05DT	0	46.6	4T4R
FSL02980_9B_1	228	70	SBNHH-1D85B_1950MHz_08DT	0	46.6	4T4R
FSL00980_9C_1	228	180	SBNHH-1D85B_1950MHz_04DT	0	46.6	4T4R
FSL02994_9B_1	249	105	840370966_1950MHz_02.5DT	0	45.4	4T4R
FSL04994_9C_1	249	225	SBNHH-1D85C_1950MHz_00DT	0	45.4	4T4R
FSL00994_9A_1	249	345	800372965_1950MHz_02DT	0	45.4	4T4R
FSL00983_9A_1	199	335	SBNHH-1D85B_1950MHz_05DT	0	46.6	4T4R
FSL02983_9B_1	199	120	SBNHH-1D85B_1950MHz_04DT	0	47.1	4T4R
FSL04983_9C_1	199	225	SBNHH-1D85B_1950MHz_02DT	0	46.6	4T4R
FSL01110_9A_1	187	350	80010764_1950MHz_07DT	0	47.4	4T4R
FSL01110_9B_1	187	120	80010764_1950MHz_07DT	0	47.4	4T4R
FSL01110_9C_1	187	260	80010764_1950MHz_07DT	0	47.4	4T4R

Distance from AT&T proposed tower location to closest AT&T tower sites is 2+ miles.



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-ASO-15559-OE

Issued Date: 08/23/2022

Jennifer C. Frost, PMP
Vertex Development, LLC
3630 W. Kennedy Blvd
Tampa, FL 33609

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Antenna Tower SR76 & 711 FL 5343
Location:	Stuart, FL
Latitude:	27-05-15.36N NAD 83
Longitude:	80-16-45.80W
Heights:	19 feet site elevation (SE) 124 feet above ground level (AGL) 143 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

 At least 10 days prior to start of construction (7460-2, Part 1)
 X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 02/23/2024 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (404) 305-6462, or mike.blaich@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-ASO-15559-OE.

Signature Control No: 525814682-550867653

(DNE)

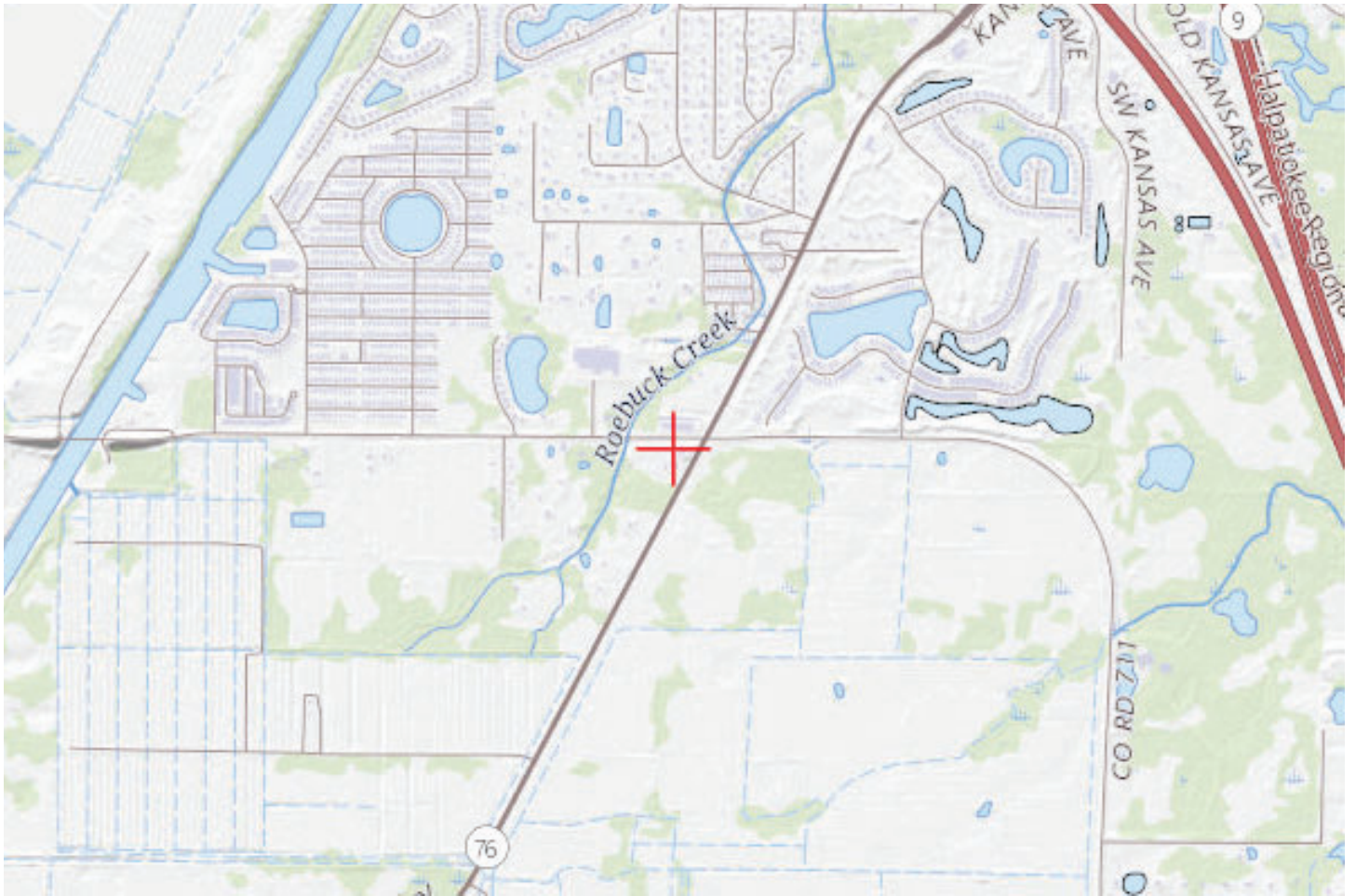
Michael Blaich
Specialist

Attachment(s)
Frequency Data
Map(s)

cc: FCC

Frequency Data for ASN 2022-ASO-15559-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	1000	W
614	698	MHz	2000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W







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10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2022-ASO-15559-OE

Issued Date: 02/08/2024

Alan Ruiz
Vertex Development, LLC
3630 W. Kennedy Blvd
Tampa, FL 33609

**** Extension ****

A Determination was issued by the Federal Aviation Administration (FAA) concerning:

Structure:	Antenna Tower SR76 & 711 FL 5343
Location:	Stuart, FL
Latitude:	27-05-15.36N NAD 83
Longitude:	80-16-45.80W
Heights:	19 feet site elevation (SE) 124 feet above ground level (AGL) 143 feet above mean sea level (AMSL)

In response to your request for an extension of the effective period of the determination, the FAA has reviewed the aeronautical study in light of current aeronautical operations in the area of the structure and finds that no significant aeronautical changes have occurred which would alter the determination issued for this structure.

Accordingly, pursuant to the authority delegated to me, the effective period of the determination issued under the above cited aeronautical study number is hereby extended and will expire on 08/08/2025 unless otherwise extended, revised, or terminated by this office. You must adhere to all conditions identified in the original determination.

This extension issued in accordance with 49 U.S.C., Section 44718 and, if applicable, Title 14 of the Code of Federal Regulations, part 77, concerns the effect of the structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this extension will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact Terri Johnson, at (404) 305-5540, or teresa.ctr.johnson@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-ASO-15559-OE.

Signature Control No: 525814682-612121974

(EXT)

David Maddox

Manager, Obstruction Evaluation Group

Attachment(s)

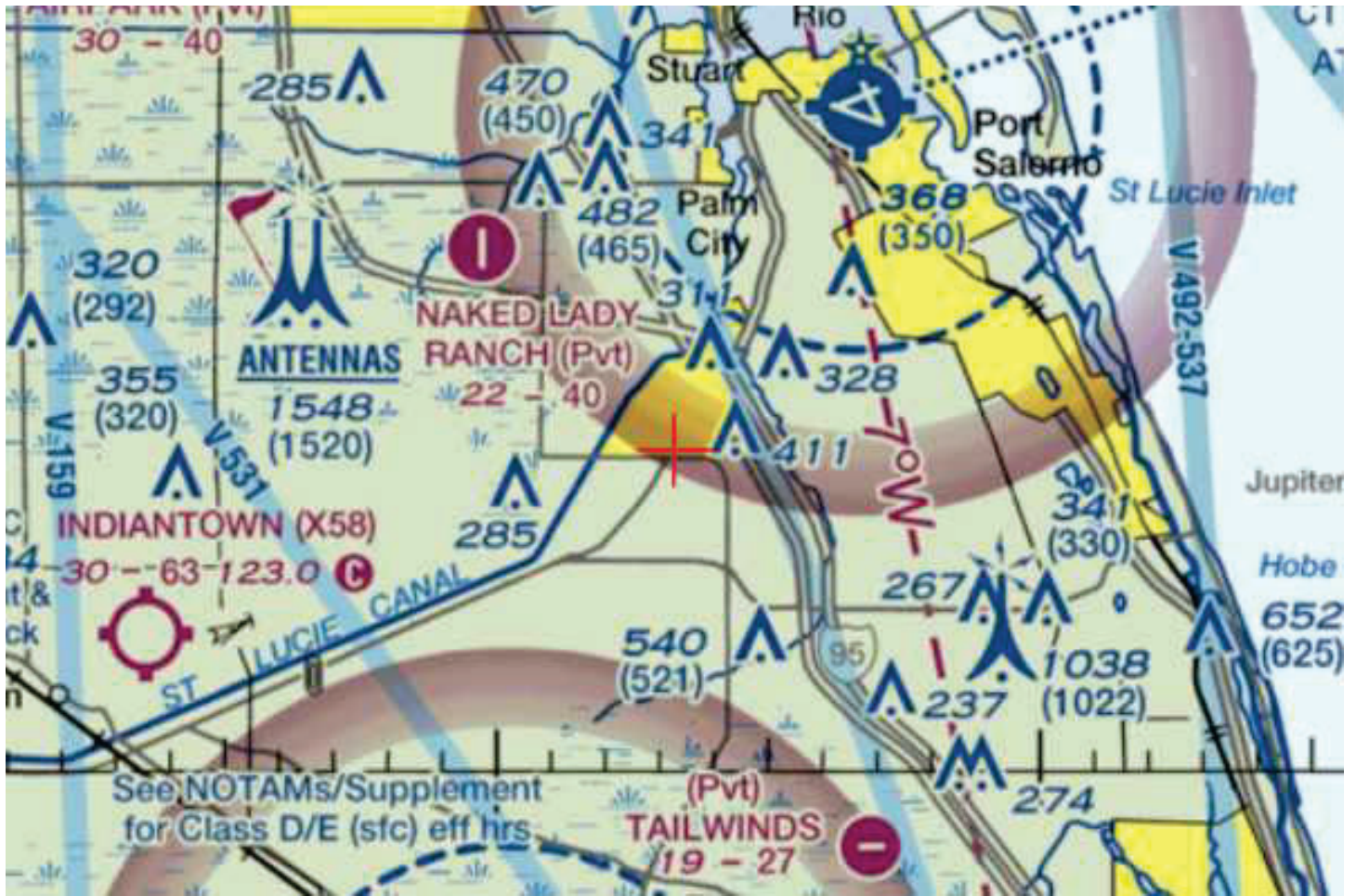
Case Description

Map(s)

cc: FCC

Case Description for ASN 2022-ASO-15559-OE

120' Stealth Communications Tower with any additional appurtenances (e.g. lightning rod).





UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
ANTENNA STRUCTURE REGISTRATION



OWNER: Vertex Development, LLC

FCC Registration Number (FRN): 0012869657

Vertex Development, LLC 3630 W Kennedy Blvd Tampa, FL 33609	Antenna Structure Registration Number 1322956	
	Issue Date 08-24-2022	
Location of Antenna Structure SW 96th Street Stuart, FL 34997 County: MARTIN	Ground Elevation (AMSL) 5.8 meters	
	Overall Height Above Ground (AGL) 37.8 meters	
Latitude 27- 05- 15.4 N	Longitude 080- 16- 45.8 W	NAD83
Center of Array Coordinates N/A		Type of Structure MTOWER Monopole
FAA Chapters NONE		

This registration is effective upon completion of the described antenna structure and notification to the Commission. **YOU MUST NOTIFY THE COMMISSION WITHIN 24 HOURS OF COMPLETION OF CONSTRUCTION OR CANCELLATION OF YOUR PROJECT, please file FCC Form 854.** To file electronically, connect to the antenna structure registration system by pointing your web browser to <http://wireless.fcc.gov/antenna>. Electronic filing is recommended. You may also file manually by submitting a paper copy of FCC Form 854. Use purpose code "NT" for notification of completion of construction; use purpose code "CA" to cancel your registration.

The Antenna Structure Registration is not an authorization to construct radio facilities or transmit radio signals. It is necessary that all radio equipment on this structure be covered by a valid FCC license or construction permit.

You must immediately provide a copy of this Registration to all tenant licensees and permittees sited on the structure described on this Registration (although not required, you may want to use Certified Mail to obtain proof of receipt), and display your Registration Number at the site. See reverse for important information about the Commission's Antenna Structure Registration rules.

FCC 854R
June 2012

You must comply with all applicable FCC obstruction marking and lighting requirements, as set forth in Part 17 of the Commission's Rules (47 C.F.R. Part 17). These rules include, but are not limited to:

- **Posting the Registration Number:** The Antenna Structure Registration Number must be displayed in a conspicuous place so that it is readily visible near the base of the antenna structure. Materials used to display the Registration Number must be weather-resistant and of sufficient size to be easily seen at the base of the antenna structure. Exceptions exist for certain historic structures. See 47 C.F.R. 17.4(g)-(h).
- **Inspecting lights and equipment:** The obstruction lighting must be observed at least every 24 hours in order to detect any outages or malfunctions. Lighting equipment, indicators, and associated devices must be inspected at least once every three months.
- **Reporting outages and malfunctions:** When any top steady-burning light or a flashing light (in any position) burns out or malfunctions, the outage must be reported to the nearest FAA Flight Service Station, unless corrected within 30 minutes. The FAA must again be notified when the light is restored. The owner must also maintain a log of these outages and malfunctions.
- **Maintaining assigned painting:** The antenna structure must be repainted as often as necessary to maintain good visibility.
- **Complying with environmental rules:** If you certified that grant of this registration would not have a significant environmental impact, you must nevertheless maintain all pertinent records and be ready to provide documentation supporting this certification and compliance with the rules, in the event that such information is requested by the Commission pursuant to 47 C.F.R. 1.1307(d).
- **Updating information:** The owner must notify the FCC of proposed modifications to this structure; of any change in ownership; or, within 30 days of dismantlement of the structure.

Copies of the Code of Federal Regulations (which contain the FCC's antenna structure registration rules, 47 C.F.R. Part 17) are available from the Government Printing Office (GPO). To purchase CFR volumes, call (202) 512-1800. For GPO Customer Service, call (202) 512-1803. For additional FCC information, consult the Antenna Homepage on the internet at <http://wireless.fcc.gov/antenna> or call (877) 480-3201 (TTY 717-338-2824).