



AVIATION AUTHORITY * PERMIT APPLICATION *

Tampa International Airport Peter O. Knight Airport Plant City Airport Tampa Executive Airport
P.O. Box 22287, Tampa, FL 33622-2287

Scope/Nature of Request: Provide summary of request, activities involved and any other required or pertinent information to fully describe scope, submit drawings and specification if needed. Additional pages may be used if necessary. The application must also contain (1) an FAA Determination of No Hazard if the duration is greater than 72 hrs. (2) site survey with an FAA accuracy code of 1A, if requested (3) a Variance application, if applicable (4) site plan with a building layout, if requested (5) building elevation plan, if requested (6) any additional information requested by the Airport Zoning Director to determine whether or not the proposal will comply with the Airport Zoning Regulations.

Project Name \ Description:

Tampa Electric Company - 78th Street Tower Replacement

Applicant acknowledges receipt of the applicable procedures and/or provisions pertaining to the above request and agrees that in consideration of issuance of this permit to be bound by the terms and conditions of such documents and all other applicable laws, rules, regulations, procedures and laws.

Permanent (Height Zoning) Check type of permit
Temporary (Crane/Equip.) being requested

This application is required to be attached to the supplemental data form for Permit request (see on-line application process).

Name/Company/Organization: Tampa Electric Company

Contact Person for Requested Activity: Michael Brooks, Authorized Agent Phone: 813-543-5900

Project Location: 820 South 78th Street, Tampa, FL Email: mbrooks@bsrfirm.com

Under penalty of perjury, I hereby certify that the above statements and supplemental data are true and correct and I have full power and authority to act on behalf of the above named firm, corporation or organization in the submission of this application.

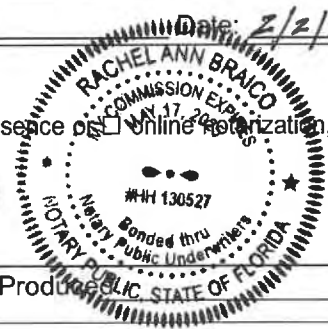
Printed Name of Authorized Representative: Michael Brooks | Brooks, Sheppard & Rocha, PLLC

Signature of Authorized Representative:

Date: 2/2/2023

STATE OF FLORIDA, COUNTY OF Florida

Sworn to (or affirmed) and subscribed before me by means of physical presence or online notarization, this 2 day of February, 2023, by Michael Brooks



(NOTARY SEAL)

Notary Signature

Personally Known OR Produced Identification

Type of Id Produced

All activities performed under this permit are at applicant's own expense and risk. The Authority will not be held liable for any damages, losses or injuries resulting from or connected with this activity. This permit does not relieve the applicant from obtaining any other permits, approvals, or determinations from other governmental agencies as may be required in accordance with law.

THIS SECTION TO BE COMPLETED BY AVIATION AUTHORITY REPRESENTATIVE

Airport Study No. 2023-25

Variance Required: YES

FAA Study Number 2021-ASO-47052-OE

Recommend Approval: YES

Associated FAA Study Numbers NA

Coordinate with Airport Operations: YES

Reviewed By:

Coordinate with ATCT: YES

Approved by Zoning Director

Date

ATTACHMENT “A”

(To Variance Application)

Tampa Electric Company (TEC) requests a variance from the Authority to replace a 600-foot (AGL) guyed tower at its 60+ acre operations center site located at 820 South 78th Street, Tampa, FL (aka “Eastern Operations Center”).¹ Replacement of aging infrastructure is part an ongoing effort by TEC to maintain and enhance system resilience in the region consistent with national policies that encourage protection of critical infrastructure serving our community.

TEC is a “public utility” as defined by F.S. 336.02(1) (2021). The existing tower is (and the proposed replacement tower will be) an essential component of the Eastern Operation Center, which functions as a public service facility as defined by the Hillsborough County Land Development Code. The on-site tower provides TEC with the *independent* capability to communicate with other utility facilities within the service area, remotely monitor and control utility infrastructure, and communicate with employees.

Most important, during black sky days, these essential capabilities are protected and secured within the Eastern Operation Center and unaffected by potential service interruptions that could occur to a third-party, off-site commercial communication tower and its support infrastructure. In short, the operation center and tower comprise and function as an integrated public service facility use with each component dependent on the other and not capable of separation.

Given the essential nature of the proposed replacement tower in its existing location:

- The regulated height would create an unnecessary hardship in that without the replacement tower TEC will no longer be able to perform essential energy grid management from its Eastern Operations Center.
- Special conditions and circumstances apply which are not applicable to other similarly situated property; specifically, that the existing tower is (and the proposed replacement tower will be) an essential component of the Eastern Operations Center and its placement is location specific.
- The proposal will not create a substantial detriment to public good or impair the purposes of the intent of these regulations; specifically, the proposal involves replacement of an existing tower of equal type, height, and external impacts.
- The proposal will not create a substantial adverse effect on the utility of the airport covered under these regulations. The FAA issued a DETERMINATION OF NO HAZARD TO AIR NAVIGATION (Aeronautical Study No. 2021-ASO-47052-OE) for the replacement tower in a letter dated April 11, 2022.

¹ Based on best available information, the existing guyed tower appears to have been constructed sometime around 1982. The Federal Aviation Administration (“FAA”) issued a DETERMINATION OF NO HAZARD TO AIR NAVIGATION (Aeronautical Study No. 82-ASO-1714-OE) for the existing structure in a letter dated October 8, 1982. A copy of this determination is included with this application.

Review Summary

Airport Study Number

2023-25

Permit Number

2325

Maximum Height - AMSL

618

Approval Date

Expires

10/11/2023

Permit Type

Height Zoning

Review

77.9 Review

Required Notice

77.17 Review

Obstruction

77.19 Review

Within Height Limits

TERPS

Within Height Limits

OEI (62.5:1)

N/A

Analysis Summary

Exceeds obstruction standard 77.17 (a)(2) by 278' - No Hazard as long as conditions are followed. No IFR/VFR or Navaid impacts identified. The proposed structure would not have a substantial adverse effect upon the safe and efficient utilization of the navigable airspace by aircraft or on any navigation facility

Coordination with ATCT:

Yes

Emergency Use

No

Objects affecting Navigable
Airspace

Yes

Coordination with Operations:

Yes

Hazard Marking and/or Lighting

Yes

Exceeds Supportive Screening Criteria

Yes

Conditions

Conditions: Red Obstruction lighting required in accordance with the FAA Advisory Circular 70/7460-1M.E-File FAA form 7460-2 with the FAA if the project is abandoned or within 5 days after the construction reaches its greatest height.If frequency interference is identified to Aviation operations the owner will mitigate the interference or remove the antenna.Notify the Airport at least 5 business days prior to starting construction at 813-870-7863 and provide Airport Study number.You will be required to follow all conditions specified in the FAA Determination to remain in compliance. Installation equipment (Crane) exceeding 618' AMSL will require a separate permit by the Aviation Authority. Equipment greater than 649' AMSL will not be approved.Any glint or glare issues identified from this project must be mitigated by the petitioner to the satisfaction of the Authority to avoid adverse impacts to aviation.The Aviation Authority requires a survey of the construction to be completed and submitted to the Aviation Authority within 5 days of reaching its greatest height.In the event that the proposed elevation is exceeded the applicant acknowledges that it will remove any feature or portion of the structure exceeding the permitted elevations.

Recommended Approval

Yes

Airport Study Number:

2023-25

CONDITIONS

Red Obstruction lighting required in accordance with the FAA Advisory Circular 70/7460-1M.

E-File FAA form 7460-2 with the FAA if the project is abandoned or within 5 days after the construction reaches its greatest height.

If frequency interference is identified to Aviation operations the owner will mitigate the interference or remove the antenna.

Notify the Airport at least 5 business days prior to starting construction at 813-870-7863 and provide Airport Study number.

You will be required to follow all conditions specified in the FAA Determination to remain in compliance.

Installation equipment (Crane) exceeding 618' AMSL will require a separate permit by the Aviation Authority. Equipment greater than 649' AMSL will not be approved.

Any glint or glare issues identified from this project must be mitigated by the petitioner to the satisfaction of the Authority to avoid adverse impacts to aviation.

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In the event that the proposed elevation is exceeded the applicant acknowledges that it will remove any feature or portion of the structure exceeding the permitted elevations.

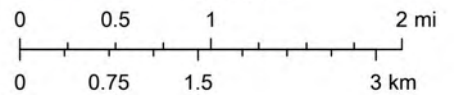
Distance from ARP



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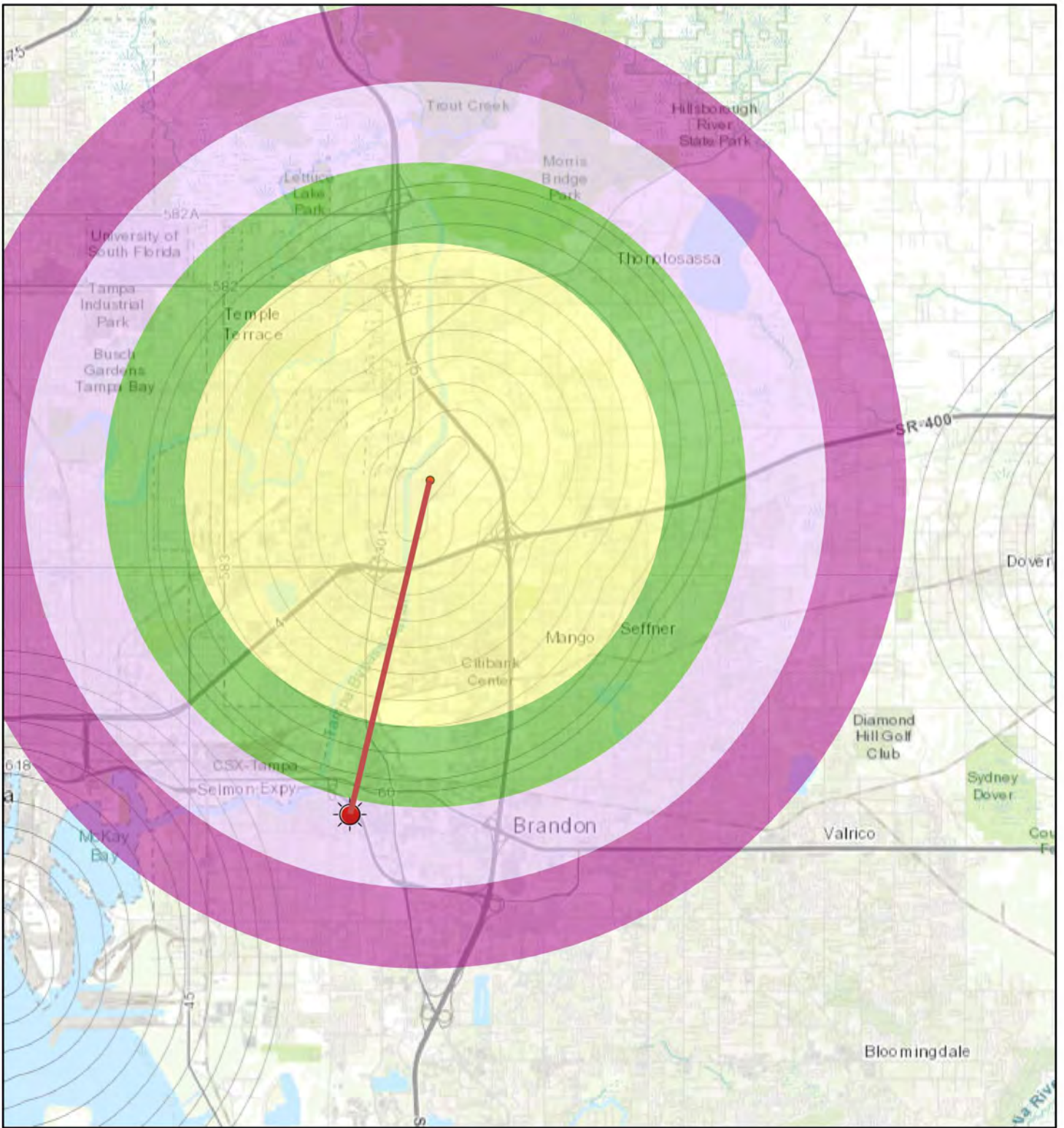
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- Override 1
- TPA Height and Zoning
- Override 1
- TPA Height and Zoning
- Airports - ARP
- TPA Height and Zoning



University of South Florida, City of Tampa, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NGA, EPA, USDA, Tony Mantegna

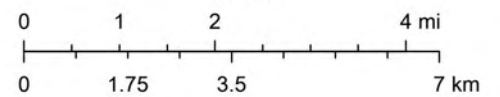
Obstruction Identification



3/2/2023, 11:44:31 AM

1:144,448

- Override 1
- Override 1
- Airspace - VDF_OBST
- 200-22-3NM
- 300-22-4NM
- 400-22-5NM
- 500-22-6NM
- Airports - ARP
- TPA Height and Zoning
- TPA Height and Zoning
- TPA Height and Zoning



University of South Florida, City of Tampa, Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS, Tony Mantegna

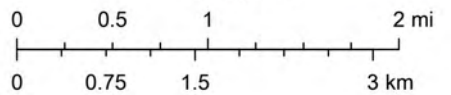
Part 77



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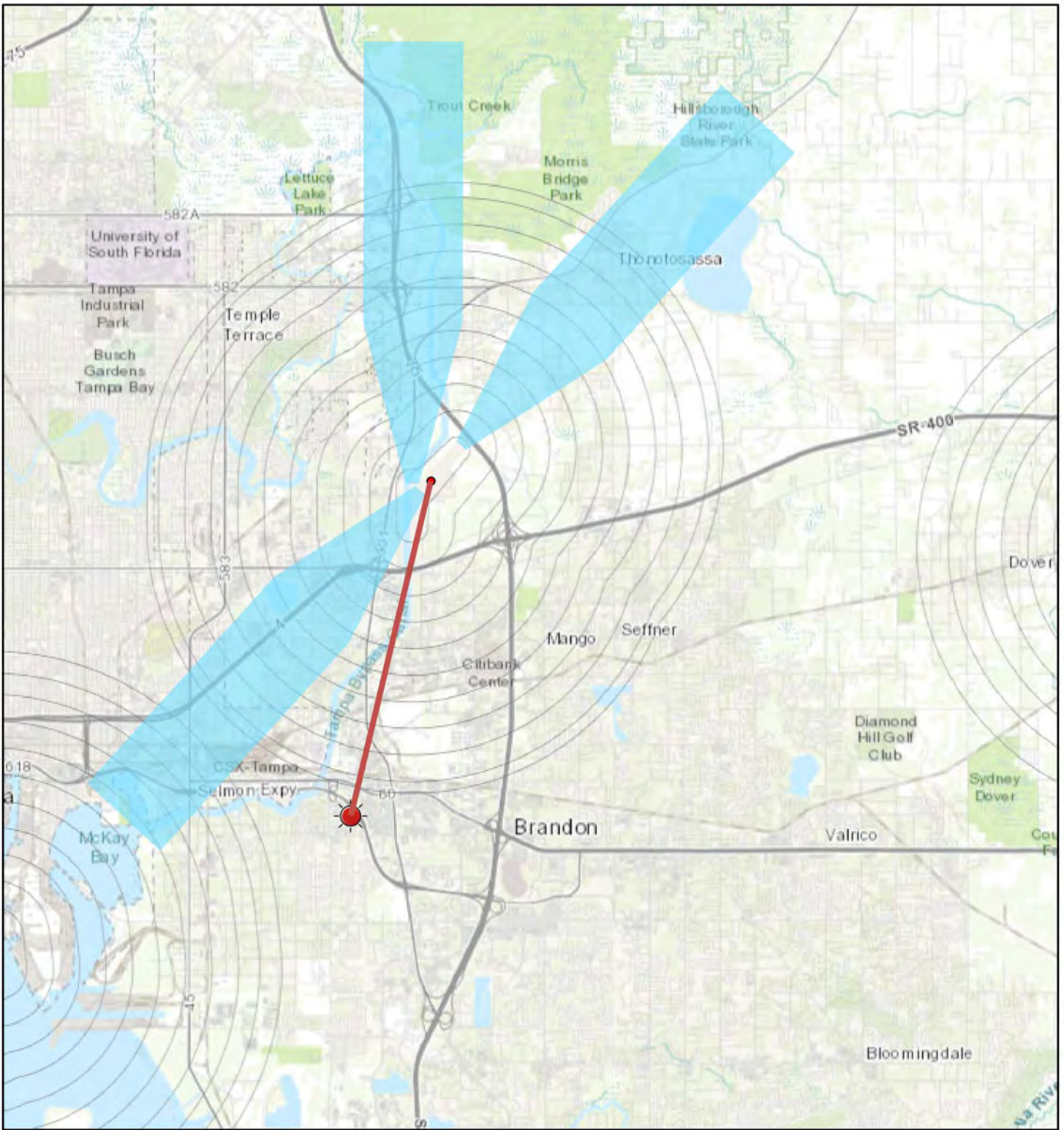
1:72,224

- Override 1
- Override 1
- Airspace - VDF_P77_19_Dissolve
- VDF_18-36_P77_19_Primary
- VDF_18-36_P77_19_Primary_Trans
- VDF_18_P77_19_Inner_Appch
- VDF_18_P77_19_Inner_Trans_Appch
- VDF_23_P77_19_Inner_Appch
- VDF_23_P77_19_Inner_Trans_Appch
- VDF_23_P77_19_Inner_Trans_Appch
- VDF_23_P77_19_Inner_Trans_Appch
- VDF_5_P77_19_Inner_Trans_Appch
- VDF_5_P77_19_Inner_Trans_Appch
- VDF_P77_19_Conical
- VDF_P77_19_Horizontal_Plane
- VDF_36_P77_19_Inner_Appch
- VDF_36_P77_19_Inner_Trans_Appch
- VDF_5-23_P77_19_Primary
- VDF_5-23_P77_19_Primary_Trans
- VDF_5_P77_19_Inner_Appch
- Airports - ARP
- TPA Height and Zoning
- TPA Height and Zoning
- TPA Height and Zoning



University of South Florida, City of Tampa, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NGA, EPA, USDA, Tony Mantegna

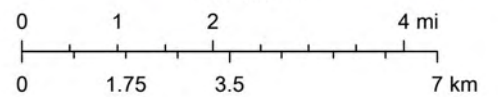
VDF Departures



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1:144,448

- Override 1
- Override 1
- Airspace - VDF_DEP
- Airports - ARP
- TPA Height and Zoning
- TPA Height and Zoning
- TPA Height and Zoning



University of South Florida, City of Tampa, Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS, Tony Mantegna



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

Aeronautical Study No.
2021-ASO-47052-OE

Issued Date: 04/11/2022

DAVE GEISLER
PEAK POWER SERVICES
7819 PROFESSIONAL PL
TAMPA, FL 33637

**** 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 Teco Relo
Location: TAMPA, FL
Latitude: 27-56-41.49N NAD 83
Longitude: 82-21-50.19W
Heights: 18 feet site elevation (SE)
600 feet above ground level (AGL)
618 feet above mean sea level (AMSL)

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

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, a med-dual system-Chapters 4,8(M-Dual),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

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)
 Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

See attachment for additional condition(s) or information.

This determination expires on 10/11/2023 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 2021-ASO-47052-OE.

Signature Control No: 502346050-523130983

(EBO)

Michael Blaich
Specialist

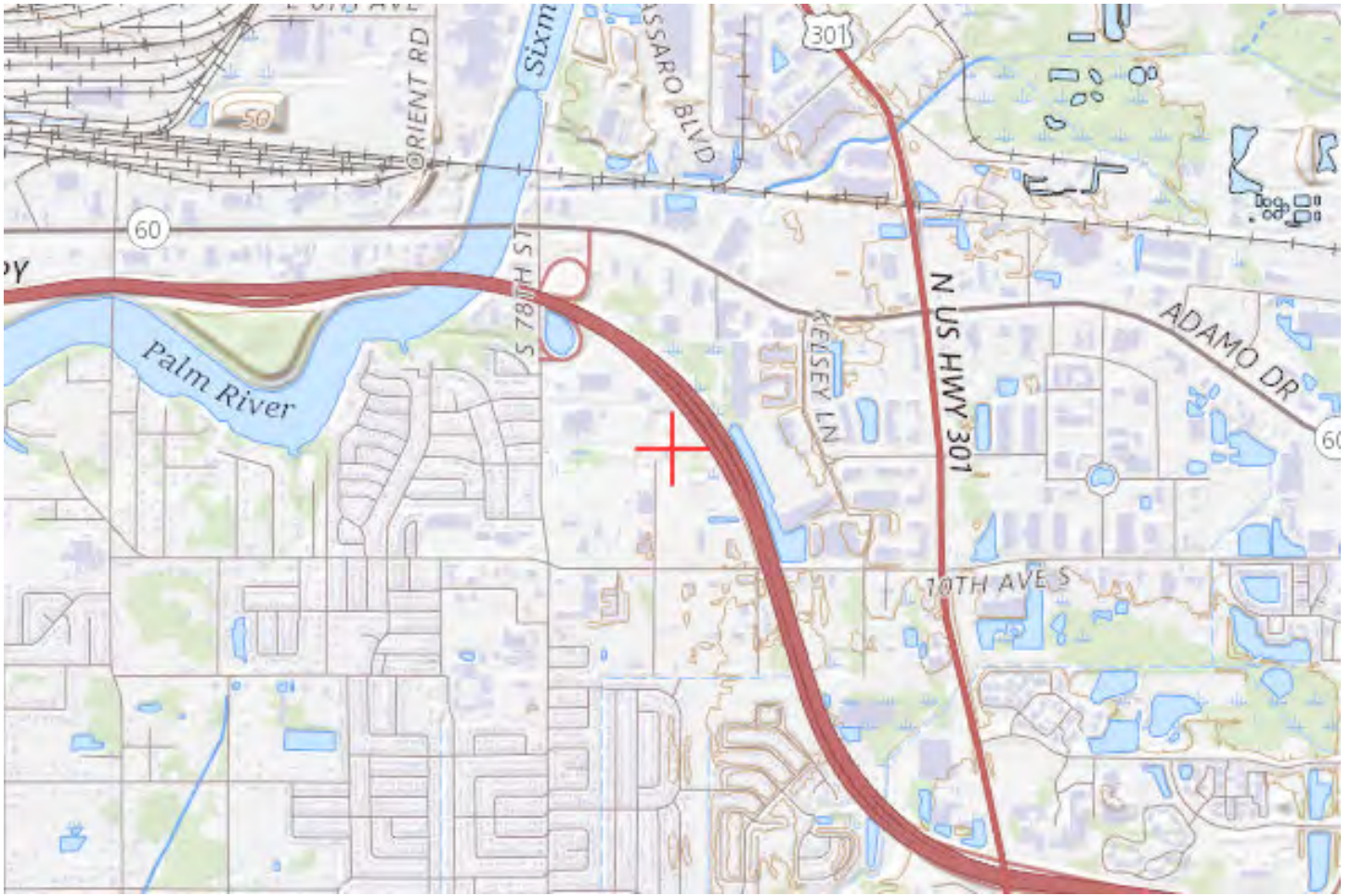
Attachment(s)
Additional Information
Frequency Data
Map(s)

cc: FCC

Replacement tower.

Frequency Data for ASN 2021-ASO-47052-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
5.735	5.835	GHz	4	W
153	158	MHz	100	W
854	860	MHz	210	W





ENGINEERS • SURVEYORS • SCIENTISTS • CONSTRUCTION MANAGERS

4041 Crescent Park Drive Tampa, FL 33578 (813) 740-2300 (813) 740-0158 Fax

1A CERTIFICATION OF LOCATION & ELEVATION

DATE: October 25, 2021

T-Mobile South LLC
Attn: Mrs. Jolene Ratliff
Tampa-Orlando
5901 Benjamin Center Dr., Suite 110 A-B
Tampa, Florida 33634

Site Ref.: 1-A SURVEY (Proposed Guyed Tower) Peak Power

Site location: 820 S 78TH ST.
Tampa, FL. 33619

T-Mobile Site # PEAK POWER

KCI JOB: 012104698

I certify that the latitude and the longitude shown hereon is accurate to within +/- 20' horizontally; and that ground elevation is accurate to within +/- 3' vertically. The horizontal datum (coordinates) is in terms of North American Datum of 1983 (NAD '83) and is expressed in degrees, minutes, and seconds to the nearest hundredth of a second. The vertical datum, (elevation) is in terms of the North American Vertical Datum of 1988 (N.A.V.D 88). Heights are referenced to the elevation at the center of the proposed TECO Tower, or Above Ground Level (A.G.L.)

Type of Tower: Proposed Guyed tower

Ground Elevation at Proposed tower: 17.8' (N.A.V.D 88 Datum) (+/-3')

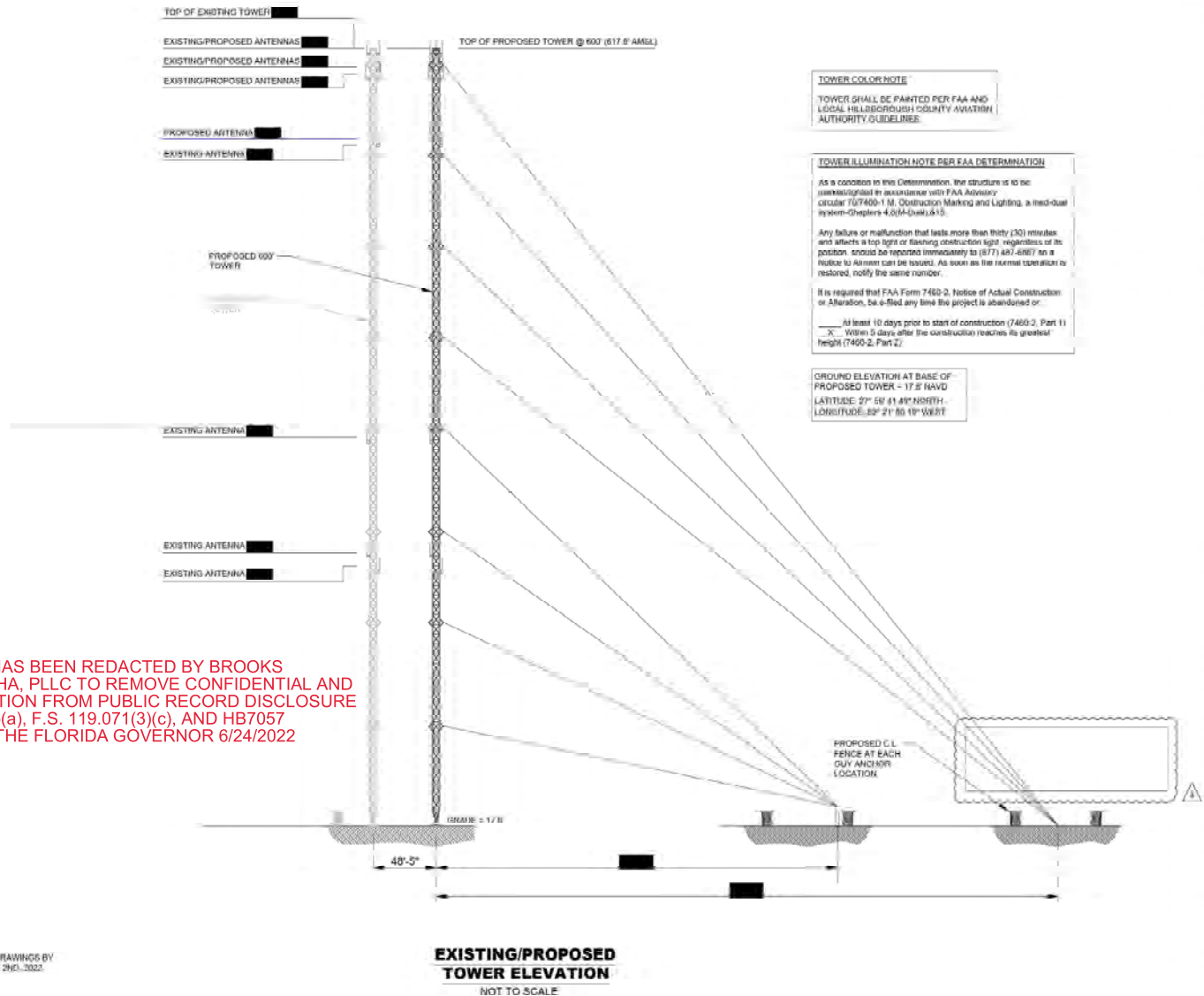
NAD '83/2011

LATITUDE: 27° 56' 41.49"North (+/-20')

LONGITUDE: 082° 21' 50.19"West (+/-20')

**Sincerely,
KCI Technologies**

PAUL R. JACKSON, PSM
Florida Professional Surveyor & Mapper No. 6719



TOWER COLOR NOTE
 TOWER SHALL BE PAINTED PER FAA AND LOCAL HILLSBOROUGH COUNTY AVIATION AUTHORITY GUIDELINES.

TOWER ILLUMINATION NOTE PER FAA DETERMINATION
 As a condition to this Determination, the structure is to be illuminated in accordance with FAA Advisory Circular (AC) 7460-11, Construction Marking and Lighting, a red dual system - Chapters 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0, 15.0, 16.0, 17.0, 18.0, 19.0, 20.0, 21.0, 22.0, 23.0, 24.0, 25.0, 26.0, 27.0, 28.0, 29.0, 30.0, 31.0, 32.0, 33.0, 34.0, 35.0, 36.0, 37.0, 38.0, 39.0, 40.0, 41.0, 42.0, 43.0, 44.0, 45.0, 46.0, 47.0, 48.0, 49.0, 50.0, 51.0, 52.0, 53.0, 54.0, 55.0, 56.0, 57.0, 58.0, 59.0, 60.0, 61.0, 62.0, 63.0, 64.0, 65.0, 66.0, 67.0, 68.0, 69.0, 70.0, 71.0, 72.0, 73.0, 74.0, 75.0, 76.0, 77.0, 78.0, 79.0, 80.0, 81.0, 82.0, 83.0, 84.0, 85.0, 86.0, 87.0, 88.0, 89.0, 90.0, 91.0, 92.0, 93.0, 94.0, 95.0, 96.0, 97.0, 98.0, 99.0, 100.0.

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)
 ___ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

GROUND ELEVATION AT BASE OF PROPOSED TOWER - 17.8 NAVD
 LATITUDE: 27° 58' 41" NORTH
 LONGITUDE: 82° 21' 55" WEST

THIS DOCUMENT HAS BEEN REDACTED BY BROOKS SHEPPARD & ROCHA, PLLC TO REMOVE CONFIDENTIAL AND EXEMPT INFORMATION FROM PUBLIC RECORD DISCLOSURE PER F.S. 119.071(3)(a), F.S. 119.071(3)(c), AND HB7057 (2022) SIGNED BY THE FLORIDA GOVERNOR 6/24/2022

NOTE:
 SEE TOWER AND FOUNDATION DRAWINGS BY SABRE INDUSTRIES DATED JUNE 29th, 2022

EXISTING/PROPOSED TOWER ELEVATION
 NOT TO SCALE



PEAK POWER SERVICES CROSSTOWN

820 S. 78TH ST.
 TAMPA, FLORIDA 33619
 (HILLSBOROUGH COUNTY)
 PARCEL I.D.:
 U-24-29-19-663-000001-63060.0

THIS DRAWING IS THE PROPERTY OF THE SURVEYOR/ENGINEER AND MAY NOT BE USED OR REPRODUCED WITHOUT HIS/HER EXPRESSED WRITTEN PERMISSION



DRAWN BY: A. VASQUEZ
 CHECKED BY: L. VASQUEZ
 APPROVED BY: J. FENNELL

REVISIONS			
NO.	DATE	REV. SUBMITTAL	BY:
A	07/11/22	90% SUBMITTAL	LV
B	07/12/22	100% SUBMITTAL	LV

THIS DOCUMENT HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JAMES T. FENNELL PE (063808) ON THE DATE SHOWN ON THE T-1 SHEET USING A DIGITAL SIGNATURE IN ACCORDANCE WITH F.A.C. 61G15-23.004 WITH A DIGITAL CERTIFICATE ISSUED BY ENTRUST, INC. PLEASE REFERENCE THE COVER SHEET TO VIEW THE SIGNATURE AND VERIFY ITS PROPERTIES. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SCALE: AS NOTED
 DATE: 06/24/22
 PROJECT NUMBER: 012104698A
 SHEET TITLE:

TOWER ELEVATION

SHEET **C-3**