document provided at meeting

C. Ryan Maloney
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JIMERSON BIRR

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October 19, 2022

VIA ELECTRONIC MAIL
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City of Okeechobee Board of Adjustment
Attn: Dawn Hoover (Chairperson)
Douglas McCoy (Vice Chairperson)
Phil Baughman
Karyne Brass
Rick Chartier
Mac Jonassaint
David McAuley
James Shaw (Alternate)
Carl "Butch" Berlin, Jr. (Alternate)
Patty Burnette (Board Secretary)

Re: Opposition to Special Exception Petition No. 22-003-SE

Dear City of Okeechobee Board of Adjustment Members,

This letter is written on behalf of SBA 2012 TC Assets, LLC, a subsidiary of SBA Communications Corporation ("SBA"), in opposition to the Application for Special Exception ("**Application**") submitted by Ignite Wireless/Kyle Lotze, as authorized agent for CitySwitch II-A, LLC ("**CitySwitch**"), which is scheduled to be considered by the Board of Adjustment at its upcoming meeting on October 20, 2022, at 6:00 p.m.

The Application seeks approval for the construction of a new 150-foot telecommunications tower, with an additional 10-foot lightning rod (total above ground level ("AGL") height of 160-feet) ("**Proposed Tower**") on CSX Transportation Inc.'s ("**CSX**") property located at 1117 NW 9th Street, Okeechobee, FL 34972, under Application File Number 22-003-SE. SBA is the owner of an existing 150-foot telecommunications tower ("**SBA's Tower**") located at 3079 NW 8th Street, Okeechobee, Florida 34972, just 0.7 miles from the planned location of the Proposed Tower. Please see **Exhibit A** for the specific location of the Proposed Tower and SBA's Tower.

SBA's Tower has additional space available for wireless antennae and equipment, including CSX's equipment, making the Proposed Tower duplicative and unnecessary.

As described in more detail below, the Board should deny the Application because CitySwitch failed to demonstrate compliance with all of the requirements of the City's Land Development Regulations ("**LDR**") necessary for the Application to be approved, as follows:

(1) The Proposed Tower does not meet the standards for granting a Special Exception provided under LDR Section 70-373(b) because CitySwitch has not provided any landscaping plans to visually screen the Proposed Tower from adjacent uses; and

(2) the Proposed Tower will have an adverse effect on the interests of the citizens of the City by allowing the proliferation of an unnecessary new tower without any additional cell coverage or benefit, contrary to LDR Section 70-373(c)(3).

The Proposed Tower Does Not Meet the City's Standards for Granting a Special Exception

To obtain a Special Exception from the Board, CitySwitch must demonstrate each of the standards for granting a special exception provided in LDR Section 70-373(b). Specifically, CitySwitch must "[d]emonstrate any landscaping techniques to visually screen the use from adjacent uses." As further required by LDR Section 90-603(g), CitySwitch is required to mitigate the visual impacts of the Proposed Tower by installing landscaping and buffering around the entire perimeter of the Proposed Tower. Specifically, CitySwitch is required to install the following landscaping to meet the LDR's landscaping requirements:

> (1) A row of trees a minimum of three inches at dbh (diameter at breast height) and a minimum of eight feet tall and a maximum of 25 feet apart shall be planted around the perimeter of the fence; and
>
> (2) A contiguous hedge at least 30 inches high at planting capable of growing to at least 36 inches in height within 18 months shall be planted in front of the tree line referenced in subsection g(1) of this section.

However, as acknowledged in the City's Staff Report regarding the Application, CitySwitch has not agreed to provide **any** landscaping, despite specific requests by Staff to provide proposals for landscaping. Importantly, CitySwitch has not submitted a variance application to the Board to request relief from the landscaping requirements, as required by LDR Section 70-374(a) ("A variance is authorized only as to physical requirements of these regulations including . . . buffer."), and public notice regarding a request for variance has not been provided, as required by LDR Section 70-335 ("Until public notice has been given and a public hearing has been held, no action shall be taken by the . . . board of adjustment . . . on any petition for the following: (6) Variance.").

Accordingly, CitySwitch fails to meet the standards for granting a Special Exception provided under LDR Section 70-373(b), and therefore, the Application should be denied.

The Proposed Tower Will Have an Adverse Effect on The Interests of the Citizens of The City by Allowing the Proliferation of an Unnecessary New Tower

Further, in granting a special exception use, the Board is required to find that the proposed special exception use "will not have an adverse effect on the public interest." LDR Section 70-373(c)(3). As stated in the Application, the Proposed Tower is being sought for AT&T to relocate its equipment from SBA's Tower to the Proposed Tower to receive a lower lease rate.

However, if the Board approves the Application and allows an entirely new communications tower to be constructed less than a mile from SBA's Tower solely for economic reasons, and without any additional cell coverage or benefit, it will have an adverse effect on the interests of the citizens of the City by allowing the proliferation of an unnecessary new tower.

Importantly, SBA's Tower is only 0.7 miles from the location of the Proposed Tower, and is available for collocation of both AT&T's and CSX's proposed antennas and equipment. As set forth in the Declaration under oath of SBA Site Marketing Manager Brooke Irby, attached as **Exhibit B**, AT&T has collocated on SBA's Tower since 2008, pursuant to the existing lease agreement originally established between Nextel South Corp. and AT&T. Since AT&T has collocated on SBA's Tower, AT&T has never mentioned any concerns or issues with SBA's Tower. Should AT&T require modifications to SBA's Tower to meet any additional collocation needs, SBA certainly would be willing to discuss those needs with AT&T.

Specifically, should AT&T require accommodation on SBA's Tower at a higher height, LDR Section 90-603(h)(3) specifically permits SBA to modify SBA's Tower to a taller height not to exceed 20 feet over SBA's Tower's existing height. Accordingly, SBA is able and willing to modify SBA's Tower to a taller height to accommodate AT&T at a higher height of 155-feet, which would be 10 feet higher than the proposed height of AT&T's antenna and equipment on the Proposed Tower.

Further, as demonstrated in the Coverage Plot Analysis and Plot Maps by SBA, attached to the Declaration of Brooke Irby as **Exhibit 1**, the Proposed Tower will not appreciably expand the scope or strength of available coverage in the area. Rather, the Proposed Tower will provide duplicative or overlapping coverage with SBA's Tower. For wireless operators with antennas mounted on SBA's Tower, the installation of additional antennas would be considered an overbuild (or impractical) based on the coverage overlap.

Moreover, as set forth in the Declaration Brooke Irby, if AT&T has concerns with existing lease rates on SBA's Tower, AT&T has not provided SBA with an opportunity to discuss its lease terms in order to address any of those concerns. Importantly, the letter from AT&T attached to the Application, which is also attached hereto as **Exhibit C**, is a letter to the owner of the real property on which SBA's Tower is located under a ground lease, and not to SBA.

Of course, wireless carriers will always be able to find a tower developer willing to charge a lower rent to attract relocation in the short term. Wireless carriers seeking to renegotiate existing tower lease terms, like AT&T, likewise can always seek the threat of relocation to improve negotiating position with existing landlords. Importantly, due to its longstanding relationship with

AT&T, SBA would be willing to discuss the current terms of the lease on SBA's existing tower with AT&T.

Should the Board approve the Application and allow for construction of the Proposed Tower without experiencing any additional cell coverage or benefit, and solely for economic reasons, it will set a dangerous precedent resulting in the proliferation of multiple unnecessary towers throughout the landscape. Clearly, such a situation would be to the detriment of the citizens of the City, and contrary to the intent and plain language of the City's LDR. Accordingly, because the Proposed Tower will have an adverse effect on the interests of the citizens of the City, the Application should be denied.

Conclusion

In sum, the Application is should be denied because (1) The Proposed Tower does not meet the standards for granting a Special Exception provided under LDR Section 70-373(b); and (2) the Proposed Tower will have an adverse effect on the interests of the citizens of the City by allowing the proliferation of an unnecessary new tower without any additional cell coverage or benefit, contrary to LDR Section 70-373(c)(3). Accordingly, SBA respectfully requires for the Board to deny the Application.

Sincerely,

C. Ryan Maloney

CRM/mgm
Enclosures: (Exhibits A-C)

cc: Client (via email w/enclosures)
File

Exhibit

“A”

SBA FL46235-A Okeechobee Distance Map

10/18/2022, 1:18:27 PM

1:6,213

0 0.04 0.09 0.18 mi

0 0.07 0.15 0.3 km

Exhibit

"B"

SBA Communications Corporation
8051 Congress Avenue
Boca Raton, FL 33487-1307

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F + 561.995.7626

sbasite.com

City of Okeechobee
Technical Review Committee

City of Okeechobee
Board of Adjustment

RE: Application Nos. 22-004-TRC and 22-003-SE

DECLARATION OF BROOKE IRBY

STATE OF GEORGIA
COUNTY OF FULTON

I, Brooke Irby, hereby certify and state as follows:

1. I am the Site Marketing Manager for SBA 2012 TC Assets, LLC, a subsidiary of SBA Communications Corporation ("SBA").

2. I make this Declaration with the understanding that it is to be used in opposition to the Application for Site Plan Review, Application No. 22-004-TRC, and the Application for Special Exception, Application No. 22-003-SE, submitted by Ignite Wireless/Kyle Lotze, as authorized agent for CitySwitch II-A, LLC ("**CitySwitch**"). All statements contained in this Declaration are based upon my personal knowledge or my personal knowledge of the business records of SBA. I am over the age of eighteen and I am fully competent to testify to the facts recited herein.[1]

[1] In my capacity working for SBA, I am one of the primary custodians of the organizational documents, files, applications, letters, correspondence, reports, and other paperwork transmitted or received in connection with the dealings with AT&T Wireless ("AT&T") in Florida (the "Records"). SBA's files contain documents which were made and/or kept as part of the Records, contemporaneously at or near the time of the events so memorialized herein, by or from information transmitted by SBA's employees and personnel who had knowledge of the facts set forth in such documents. The Records are kept in the course of a regularly conducted business activity and for each such document contained in the Records, it was the regular practice of business activity to make or retain such document. To the extent that I refer to any such document other than those made or received by me personally, such document is one of SBA's Records.

3. It is my job to interact with carriers, such as AT&T, who have located, or are interested in locating, onto an SBA telecommunications tower in Florida.

4. I maintain an open line of communication with the carriers to discuss tenant issues, including but not limited to, collocation, new equipment, centerline placement of equipment onto SBA communication towers, and other related matters. This would include the communications tower SBA has owned, operated, and maintained since October 1, 2012 in Okeechobee County, FL on property located at 3079 NW 8th Street, Okeechobee, Florida 34972 ("SBA's Tower").

5. AT&T currently leases space and maintains its communications equipment on SBA's Tower. AT&T has co-located on the SBA Tower since 2008 prior to SBA's ownership. Nextel South Corp. originally constructed the tower in 2008. On September 22, 2008, Nextel South Corp and New Cingular Wireless entered into a Site Lease Agreement dated September 22, 2008. The tower and associated agreements transferred ownership from Nextel South Corp to TowerCo Assets LLC on September 23, 2008. On October 1, 2012, SBA became successor in interest to TowerCo Assets LLC.

6. In exchange for collocating on SBA's Tower, AT&T agreed to make rent payments to SBA, in accordance with a lease agreement originally established between Nextel South Corp and AT&T. SBA has always billed AT&T in accordance with their lease agreement.

7. As with all other matters, AT&T has been directed to send any communication related to SBA's communication towers in Florida, including SBA's Tower, to my attention.

8. I understand CitySwitch is seeking approval for the construction of a new 150-foot telecommunications tower, with an additional 10-foot lightning rod (total above ground level ("AGL") height of 160-feet) ("**Proposed Tower**") on CSX Transportation Inc.'s ("**CSX**") property located at 1117 NW 9th Street, Okeechobee, FL 34972.

9. I was surprised by CitySwitch's Application for Site Plan Review and Application for Special Exception that identified AT&T as the primary intended tenant on the Proposed Tower, as I regularly communicate with AT&T.

10. In my prior communications with AT&T, it has not mentioned concerns or issues with SBA's Tower, nor inquired whether SBA's Tower could accommodate additional equipment. Nor has AT&T raised any other concerns to SBA about its occupancy on SBA's Tower.

11. Notably, AT&T has never contacted me about reducing lease rates on SBA's Tower, nor attempted to re-negotiate the lease rates for SBA's Tower under the lease agreement.

12. AT&T is currently a tenant on over 6,690 SBA telecommunications towers nationwide. Given our relationship with AT&T, SBA would certainly appreciate the opportunity to work with AT&T to stay collocated on SBA's Tower, which prevents the unnecessary and needless proliferation of telecommunication towers in the City of Okeechobee, Florida.

13. Having reviewed SBA's corporate records, I can confirm SBA most certainly can accommodate additional equipment for AT&T, including FirstNet, and can accommodate CSX's equipment, on SBA's Tower.

14. Should AT&T's needs require modifications to SBA's Tower, SBA is willing to discuss AT&T's needs with them further. Such modifications as may be needed to accommodate AT&T at a higher height or for more/larger equipment are common practice in the telecommunications industry.

15. In sum, there is ample structural capacity for SBA's Tower to handle more equipment, including CSX's equipment, as SBA constructed SBA's Tower to house multiple tenants.

16. The SBA Records include an RF Coverage Plot Analysis and RF Coverage Plots, which are attached to this Declaration as **Exhibit 1** (the "SBA RF Analysis").

17. As stated in the SBA RF Analysis, due to the close proximity to SBA's Tower, the Proposed Tower would not appreciably expand the scope or strength of available coverage in the area, but would instead provide duplicative or overlapping coverage provided by SBA's Tower. Further, the installation of additional antennas on the Proposed Tower would be considered an "overbuild" or impractical given the coverage overlap with SBA's Tower.

[*Signature follows on next page*]

UNDER PENALTIES OF PERJURY, I DECLARE THAT I HAVE READ THE FOREGOING STATEMENTS, AND THAT THE FACTS STATED THEREIN ARE TRUE AND CORRECT.

Date: 10/19/2022

Brooke Irby

BROOKE IRBY

Exhibit

1

TO: SBA

Subject: RF Coverage Plot Analysis: City of Okeechobee, FL

Date: October 18, 2022

1. METHODOLOGY. The attached plots depict broadcast radio frequency (RF) coverage from the existing site to City of Okeechobee, FL and a proposed site approximately 0.7452 miles to the East. At each location, cellular industry typical LTE operating parameters were considered for omnidirectional antennas mounted at 120 and 155 feet above ground level at the existing site, and at 145 feet above ground level for the proposed site. Ground elevations are 33 and 29 feet above mean sea level, respectively.

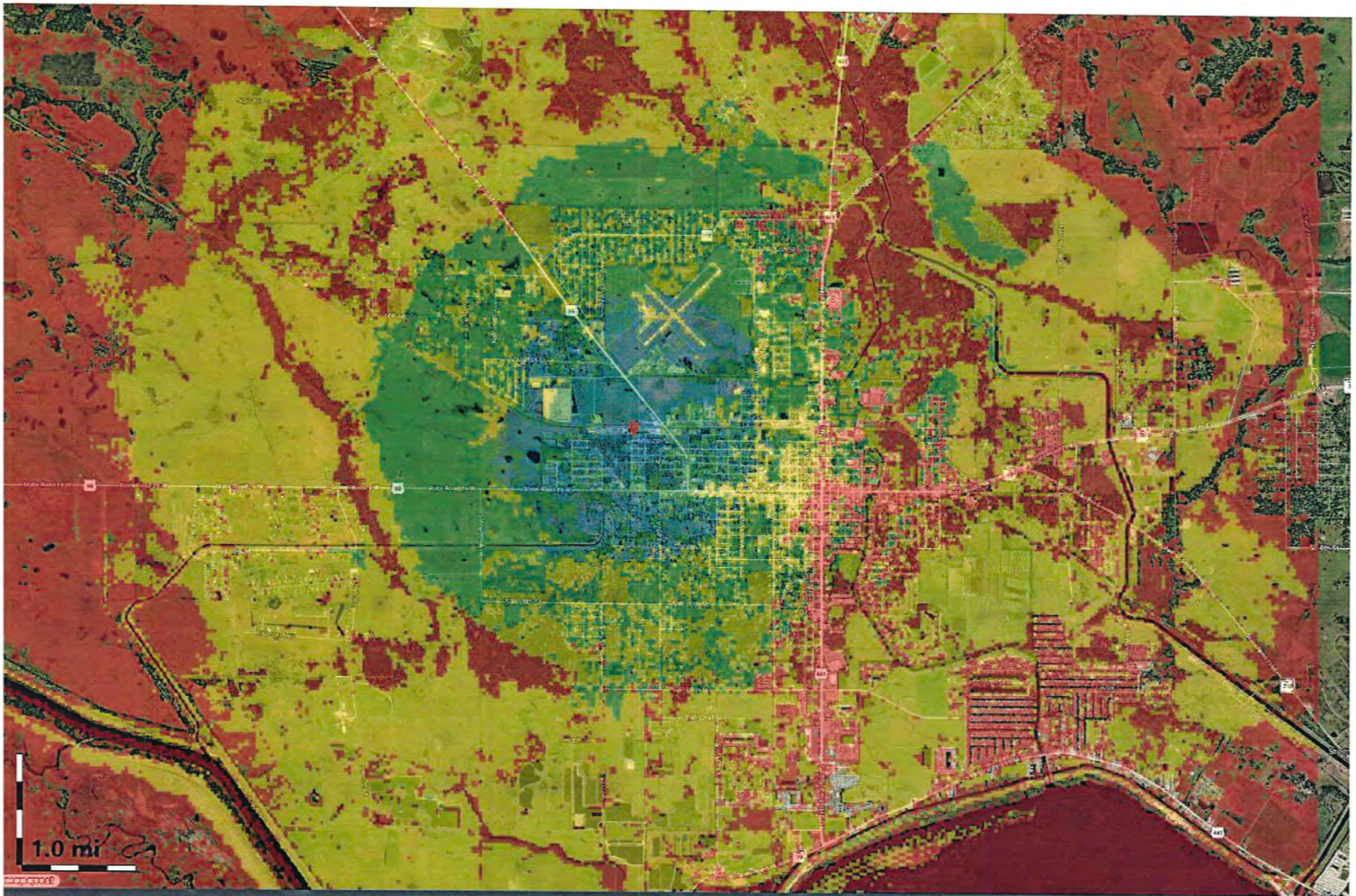
Plots for both locations were generated for 700, 850, 1900 and 2100 MHz operations. The signal levels depicted are associated with LTE service reliability where the strong coverage levels in green and blue occur near the towers and decrease with distance from the sites and intervening terrain obstructions. Signal levels greater than -70 dBm shown as blue are associated with feasible coverage within buildings. Marginal coverage is provided in the regions depicted in yellow between -90 dBm and -80 dBm and signal levels between -100 dBm and -90 dBm shown as red represent poor coverage associated with call failures.

A comparison of coverage performance for each site is based on low band (700 and 850 MHz) and high band (1900 and 2100 MHz) prediction results. Radiowave propagation conditions between these bands differ because of terrain and ground clutter (e.g. vegetation) effects at different frequencies. Generally, low band operations provide greater area coverage. Therefore, high band operations provide additional customer traffic capacity closer to the cellular site.

2. COMPARISON. The sites considered in these coverage plots provide service to the depicted locations and roads leading to City of Okeechobee, FL. For low band operations, the existing site provides strong coverage approximately 1.3 miles in all directions and to non-contiguous areas to 1.7 miles from the site. This includes 1.6 miles of US Hwy 98. The proposed site provides strong coverage approximately 1.3 miles in all directions and to non-contiguous areas to 1.7 miles from the site. This includes 1.6 miles of US Hwy 98.

For high band operations, both sites provide strong coverage to non-contiguous areas 0.7 miles in all directions.

3. CONCLUSION. Based on the coverage comparison presented above, the proposed site provides comparable coverage to City of Okeechobee, FL due to its close proximity to the existing site. For wireless operators with antennas mounted on the existing site, the installation of additional antennas on the proposed site would be considered to be an "overbuild" or impractical given the coverage overlap.

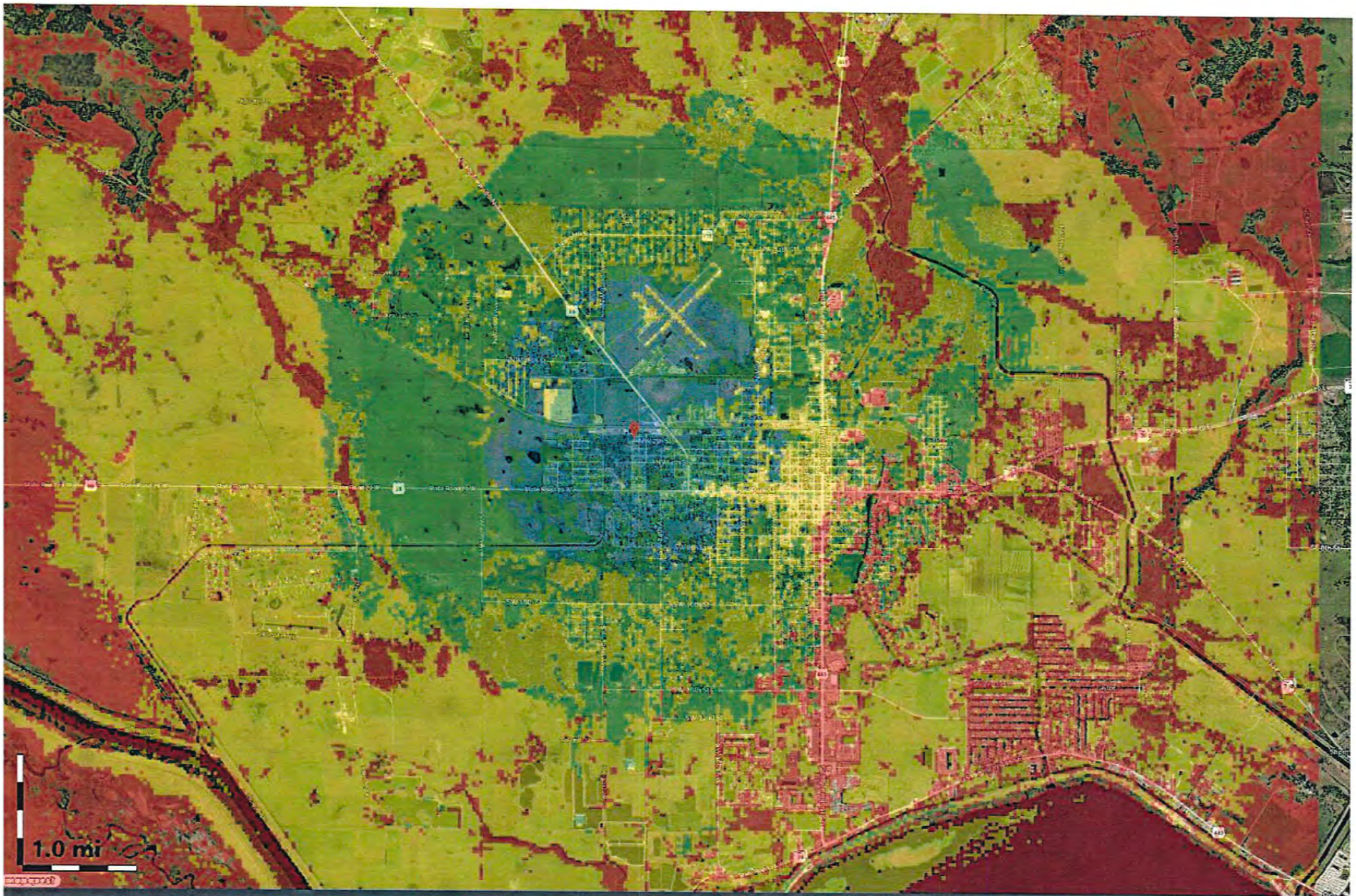


Existing Site
700 MHz Coverage

Site Name	FL46235-A Okeechobee Park
Latitude:	N27.2514
Longitude:	W80.8569

Antenna:	15.15 dBi Omni
Alpha Rad Center (ft):	120
Azimuth (Deg):	0
ERP per RS (W):	2.0

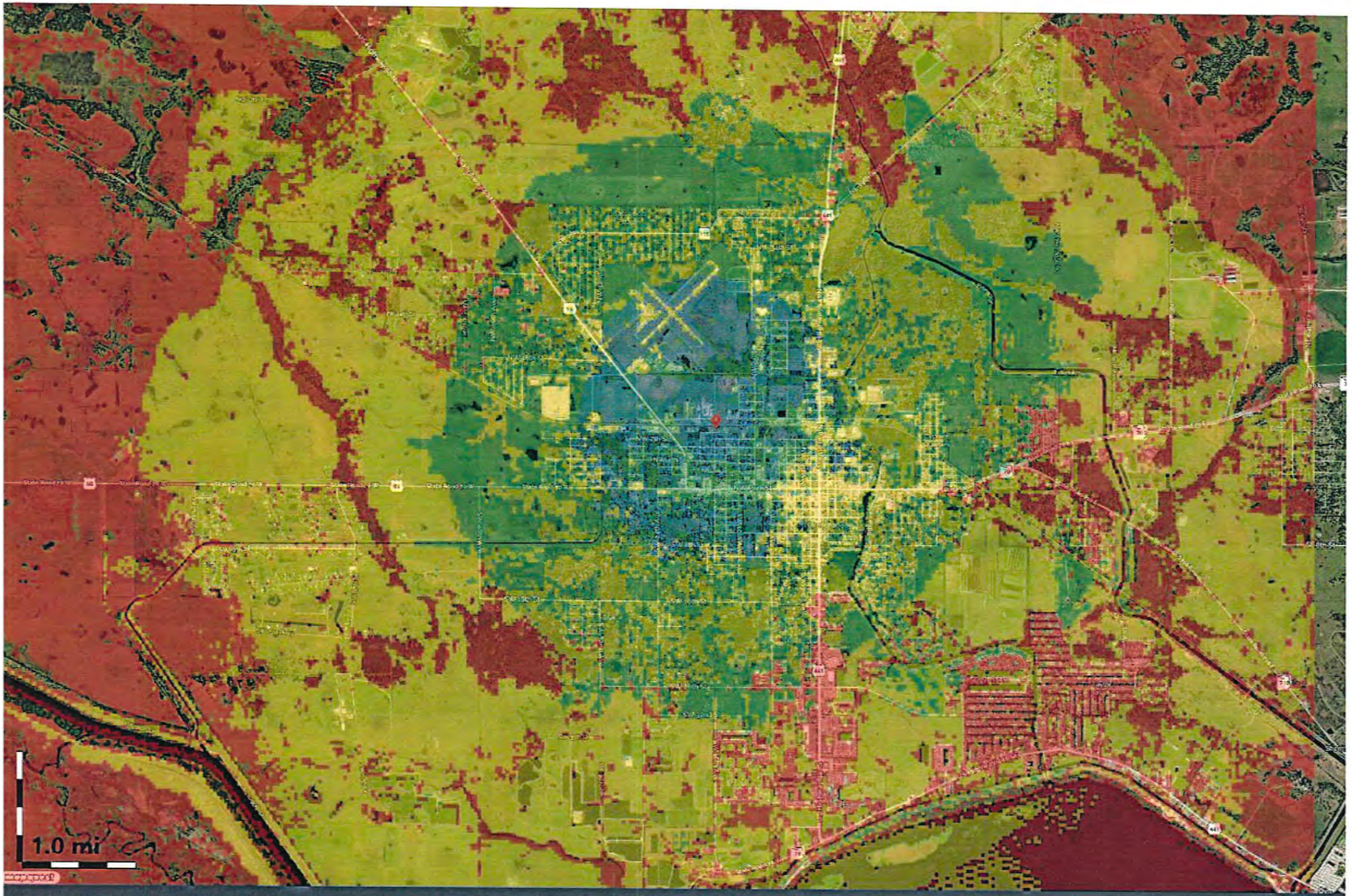
RSRP:
< -100 dBm | >= -100 dBm | >= -90 dBm | >=-80 dBm | >=-70 dBm



Existing Site
700 MHz Coverage

Site Name	FL46235-A Okeechobee Park
Latitude:	N27.2514
Longitude:	W80.8569
Antenna:	15.15 dBi Omni
Alpha Rad Center (ft):	155
Azimuth (Deg):	0
ERP per RS (W):	2.0

RSRP:
< -100 dBm | >= -100 dBm | >= -90 dBm | >=-80 dBm | >=-70 dBm



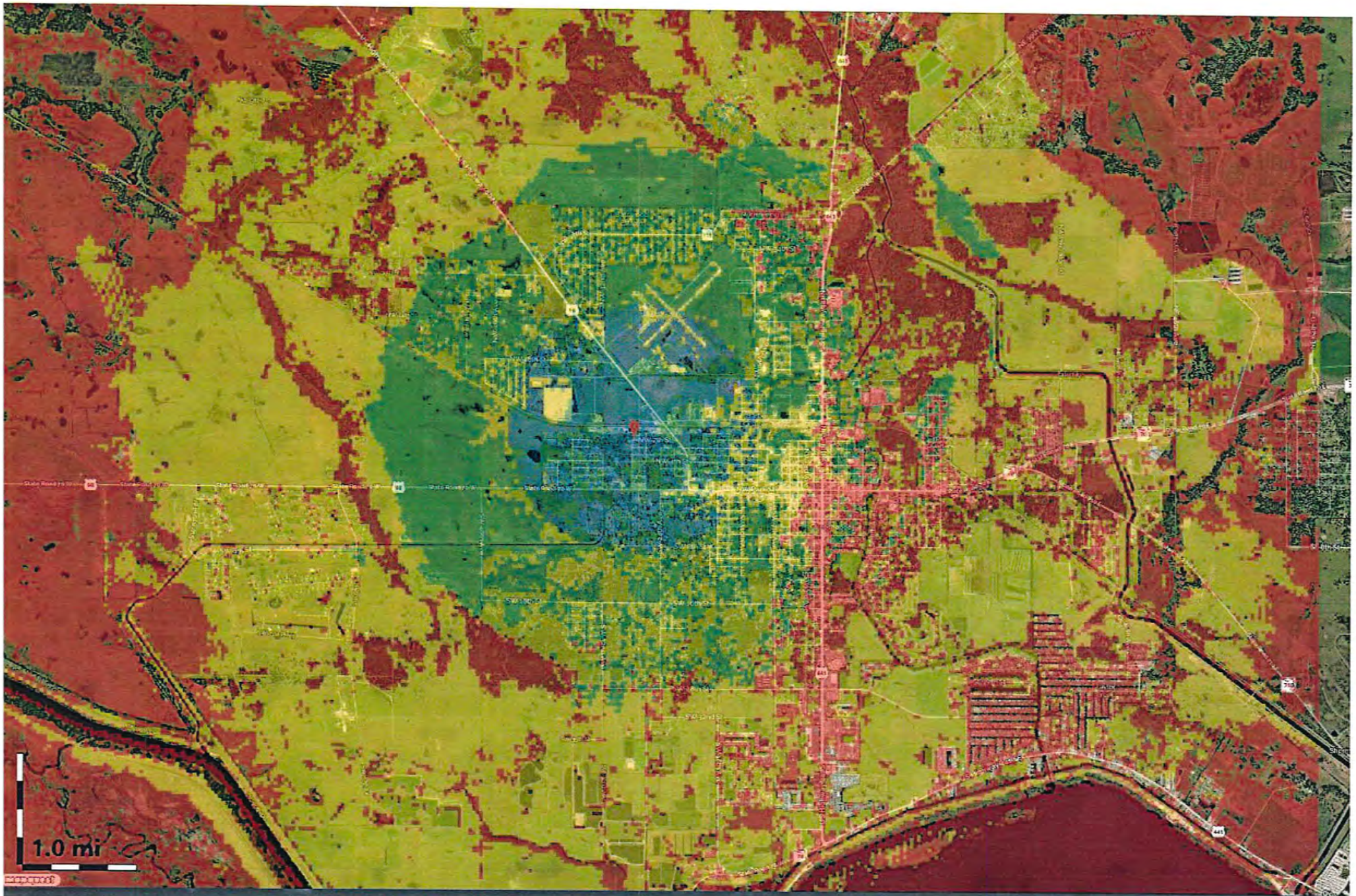
Proposed Site
700 MHz Coverage

Site Name	Proposed
Latitude:	N27.25214
Longitude:	W80.844796

Antenna:	15.15 dBi Omni
Alpha Rad Center (ft):	145
Azimuth (Deg):	0
ERP per RS (W):	2.0

RSRP:

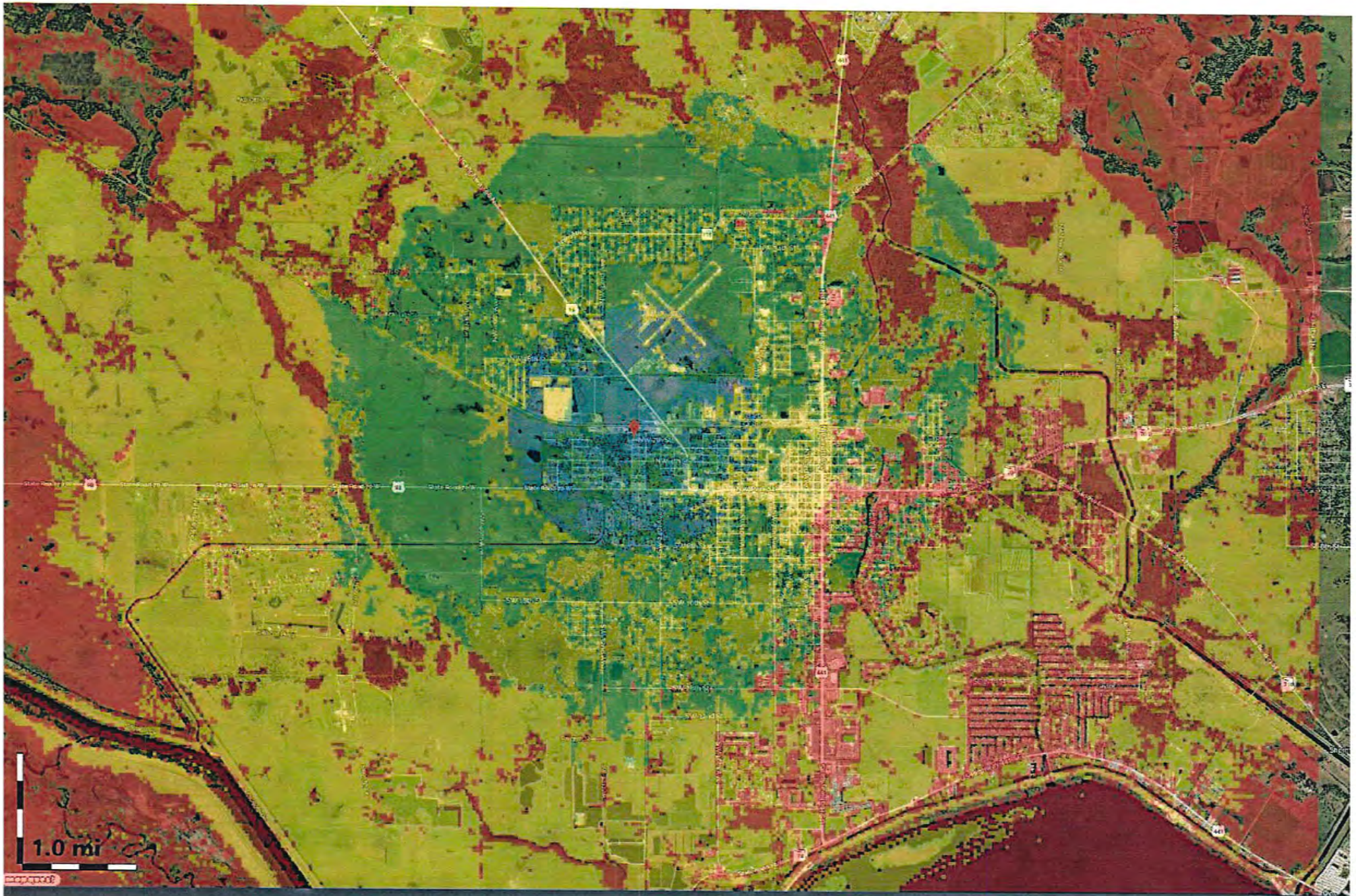
< -100 dBm	>= -100 dBm	>= -90 dBm	>=-80 dBm	>=-70 dBm



Existing Site
850 MHz Coverage

Site Name	FL46235-A Okeechobee Park
Latitude:	N27.2514
Longitude:	W80.8569
Antenna:	15.15 dBi Omni
Alpha Rad Center (ft):	120
Azimuth (Deg):	0
ERP per RS (W):	2.0

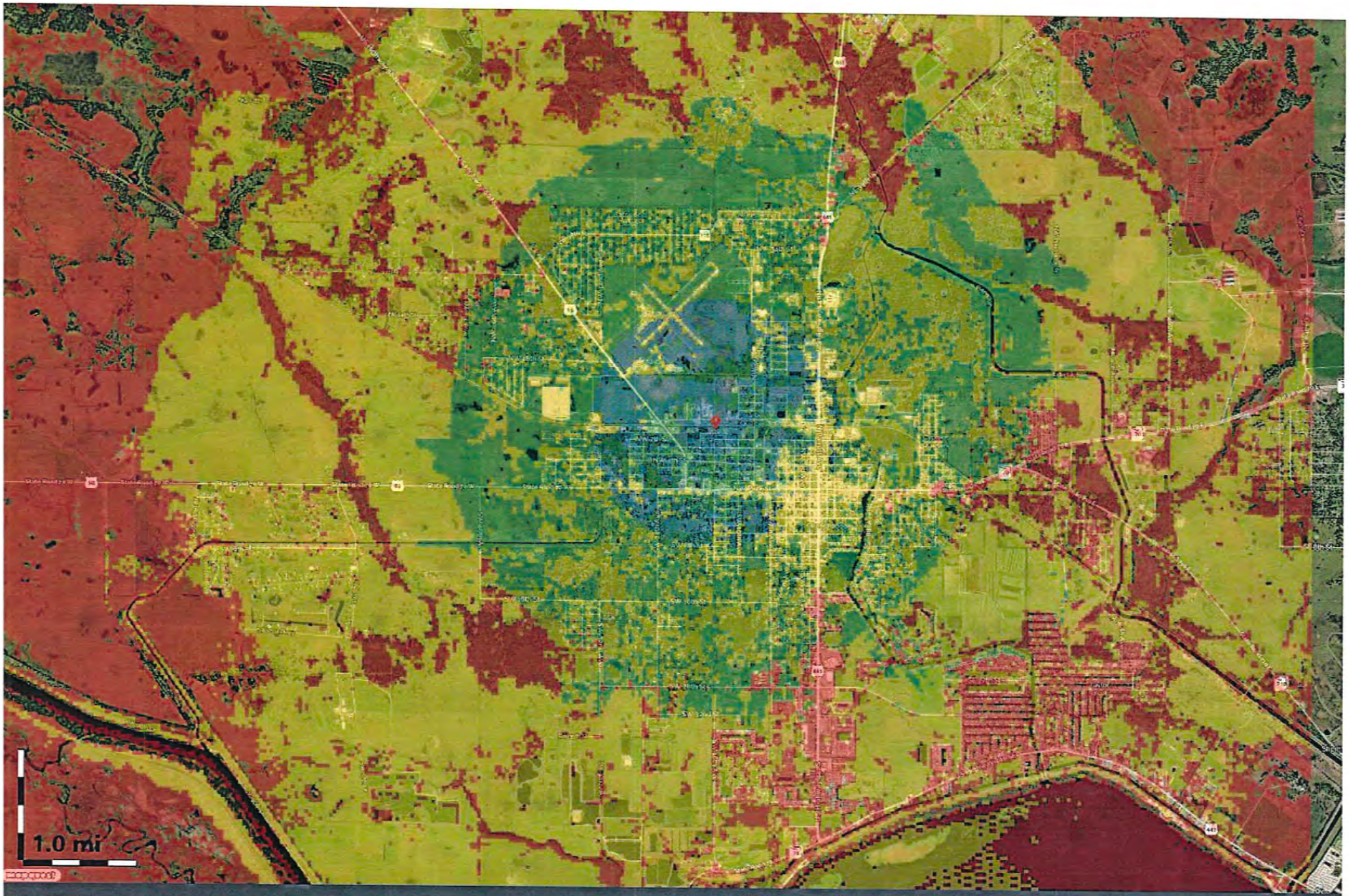
RSRP:
< -100 dBm | >= -100 dBm | >= -90 dBm | >=-80 dBm | >=-70 dBm



Existing Site
850 MHz Coverage

Site Name	FL46235-A Okeechobee Park
Latitude:	N27.2514
Longitude:	W80.8569
Antenna:	15.15 dBi Omni
Alpha Rad Center (ft):	155
Azimuth (Deg):	0
ERP per RS (W):	2.0

RSRP:
< -100 dBm | >= -100 dBm | >= -90 dBm | >=-80 dBm | >=-70 dBm



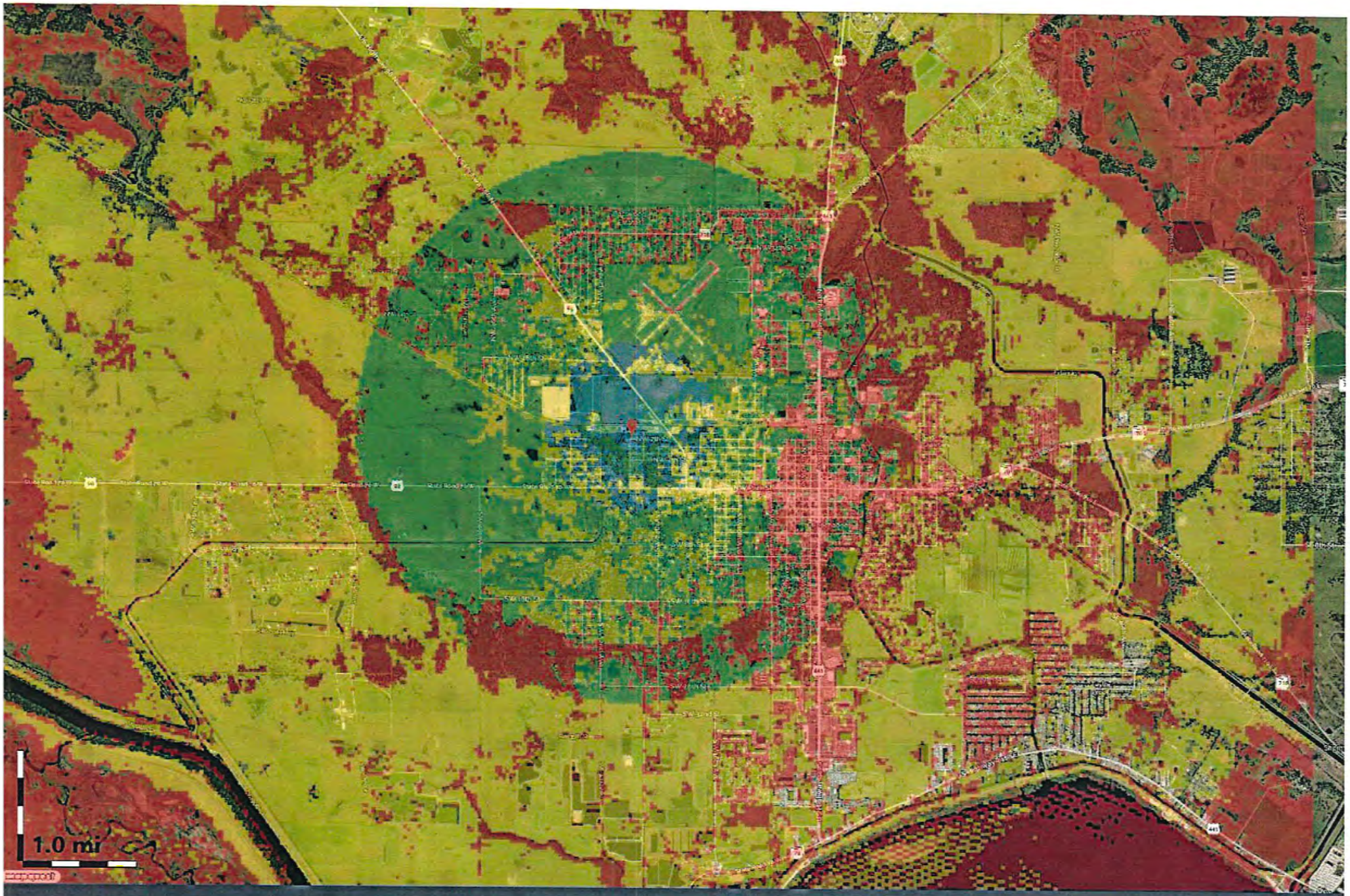
Proposed Site
850 MHz Coverage

Site Name	Proposed
Latitude:	N27.25214
Longitude:	W80.844796

Antenna:	15.15 dBi Omni
Alpha Rad Center (ft):	145
Azimuth (Deg):	0
ERP per RS (W):	2.0

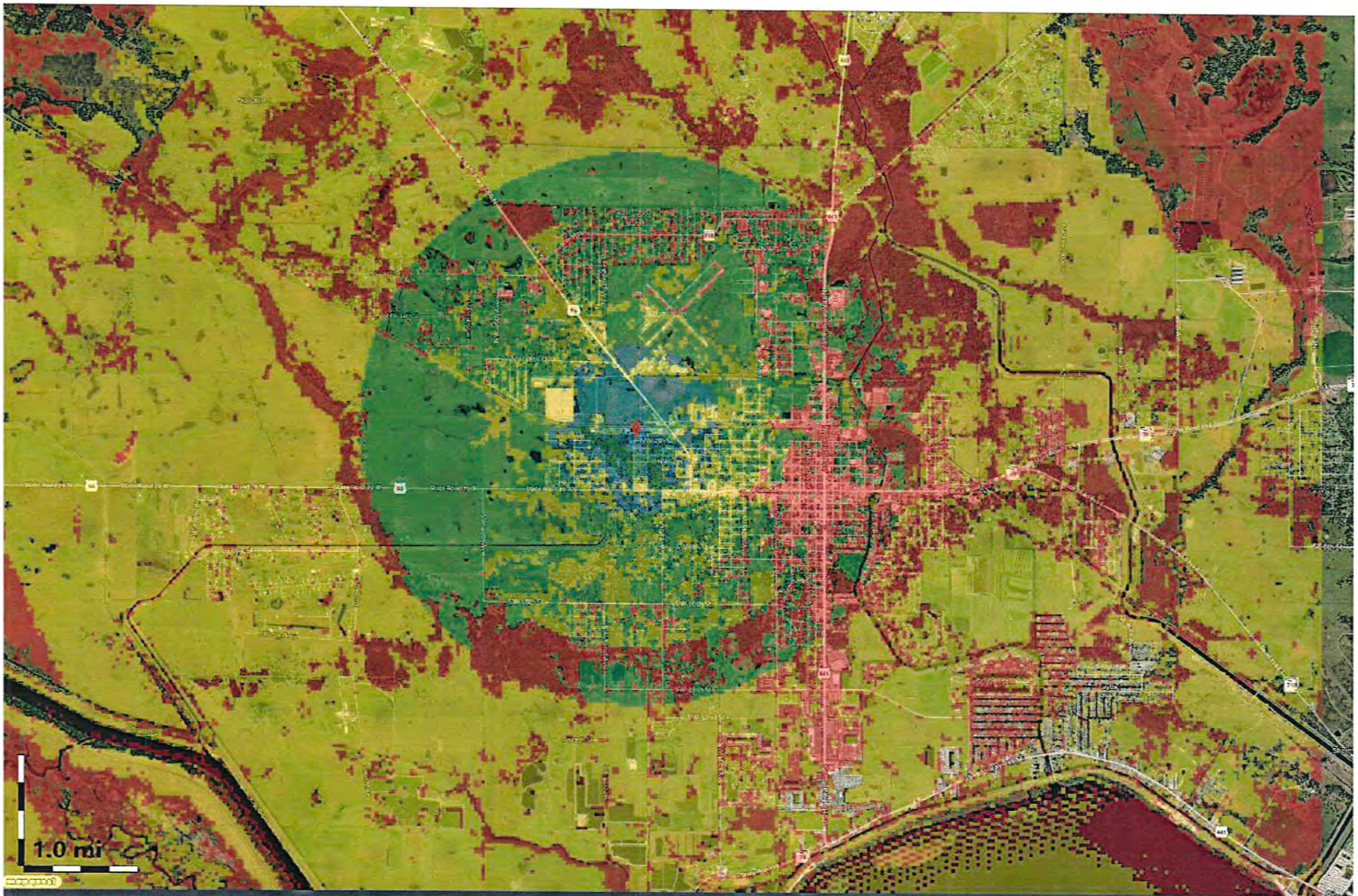
RSRP:

< -100 dBm	>= -100 dBm	>= -90 dBm	>=-80 dBm	>=-70 dBm



Existing Site
1900 MHz Coverage

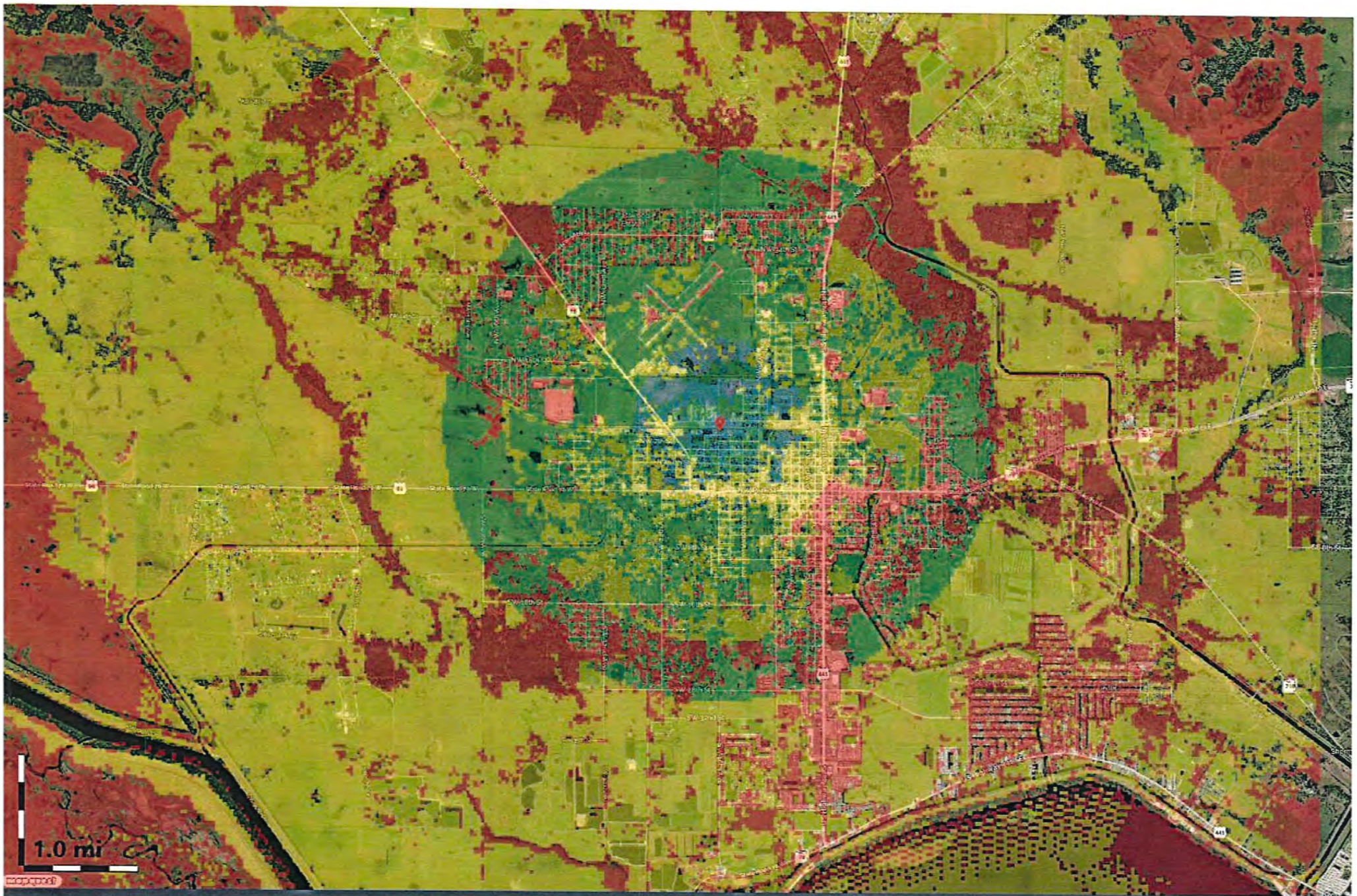
Site Name	FL46235-A Okeechobee Park
Latitude:	N27.2514
Longitude:	W80.8569
Antenna:	17.15 dBi Omni
Alpha Rad Center (ft):	120
Azimuth (Deg):	0
ERP per RS (W):	4.7



Existing Site
1900 MHz Coverage

Site Name	FL46235-A Okeechobee Park
Latitude:	N27.2514
Longitude:	W80.8569
Antenna:	17.15 dBi Omni
Alpha Rad Center (ft):	155
Azimuth (Deg):	0
ERP per RS (W):	4.7

RSRP:
< -100 dBm | >= -100 dBm | >= -90 dBm | >=-80 dBm | >=-70 dBm



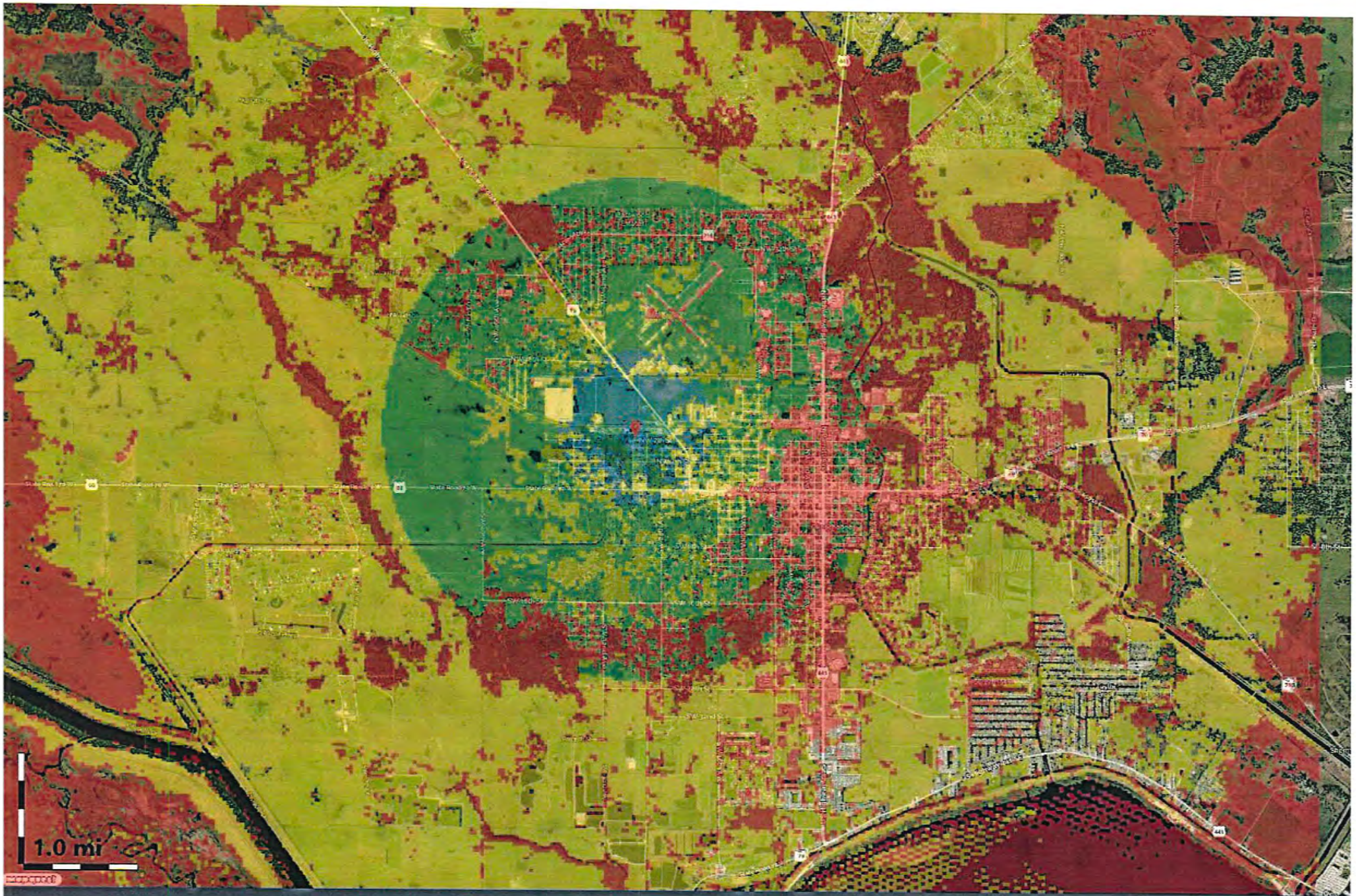
Proposed Site
1900 MHz Coverage

Site Name	Proposed
Latitude:	N27.25214
Longitude:	W80.844796

Antenna:	17.15 dBi Omni
Alpha Rad Center (ft):	145
Azimuth (Deg):	0
ERP per RS (W):	4.7

RSRP:

< -100 dBm	>= -100 dBm	>= -90 dBm	>=-80 dBm	>=-70 dBm



Existing Site
2100 MHz Coverage

Site Name	FL46235-A Okeechobee Park
Latitude:	N27.2514
Longitude:	W80.8569
Antenna:	17.15 dBi Omni
Alpha Rad Center (ft):	120
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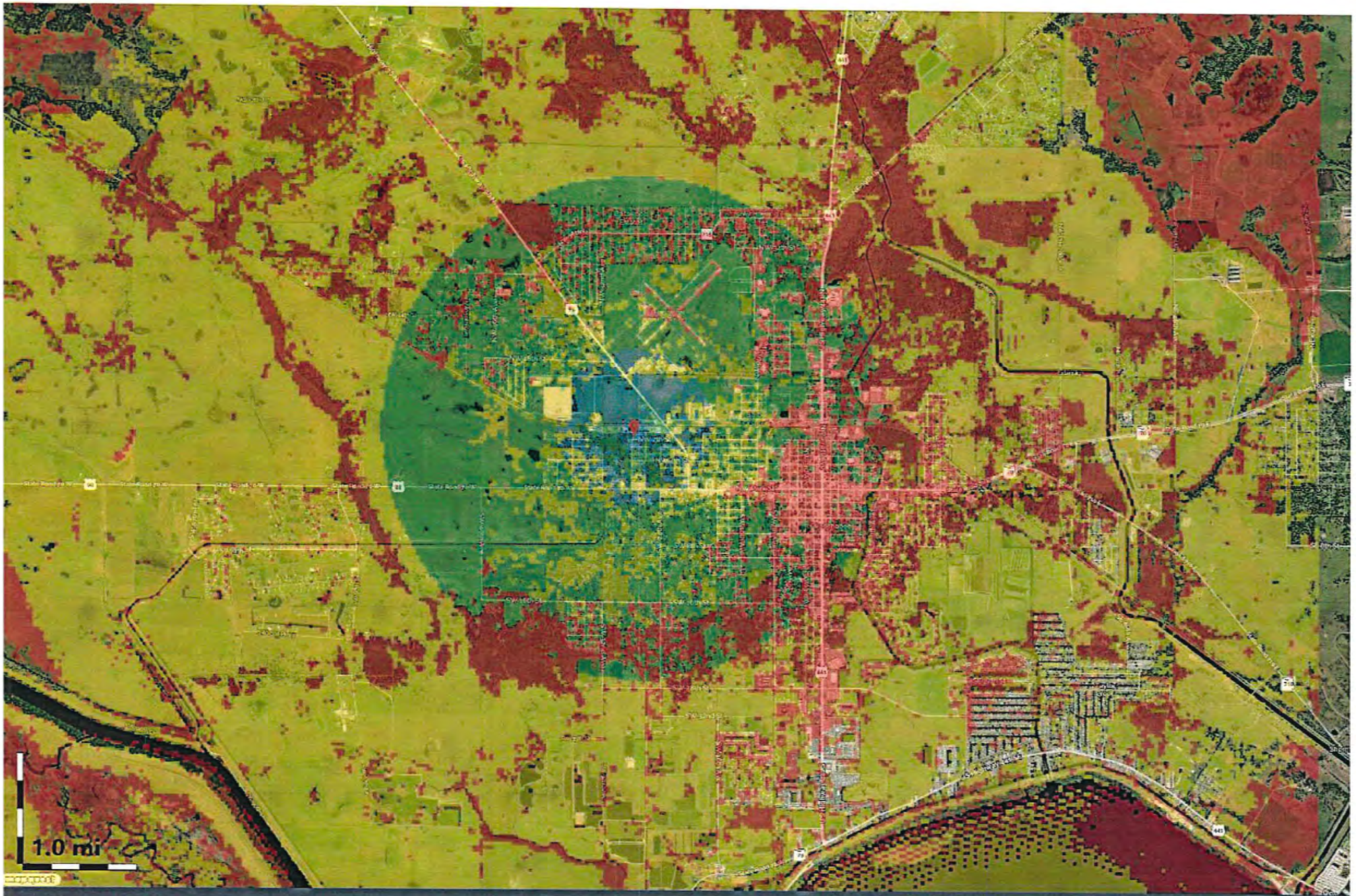

Existing Site
2100 MHz Coverage

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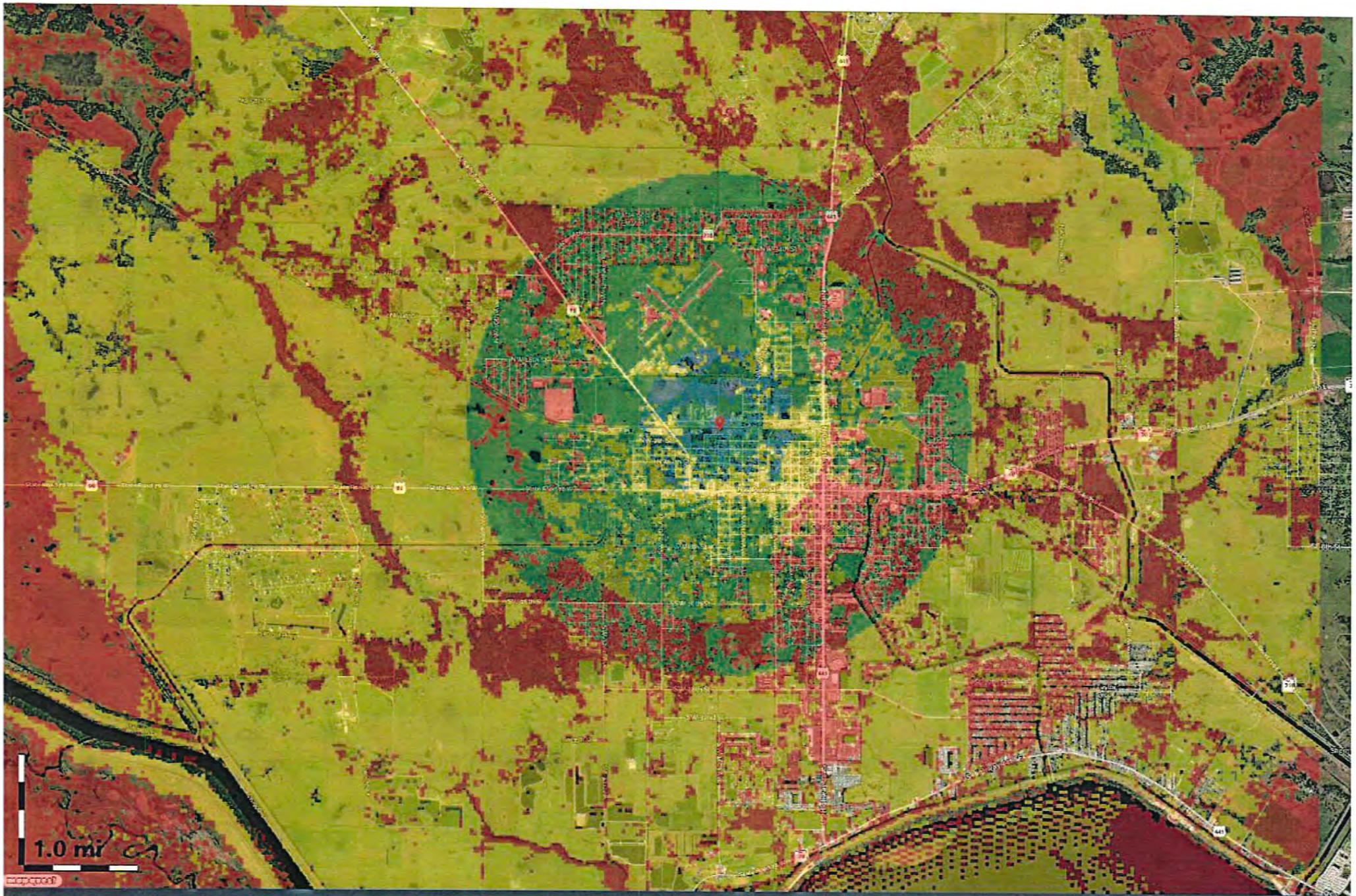


Proposed Site
2100 MHz Coverage

Site Name	Proposed
Latitude:	N27.25214
Longitude:	W80.844796

Antenna:	17.15 dBi Omni
Alpha Rad Center (ft):	145
Azimuth (Deg):	0
ERP per RS (W):	4.7

RSRP:

< -100 dBm	>= -100 dBm	>= -90 dBm	>=-80 dBm	>=-70 dBm

Exhibit

"C"

at&t
27271 Las Ramblas, Suite 300
Mission Viejo, CA 92691

October 27, 2020

Edwin E. Walpole, III
P.O. Box 1177
Okeechobee, FL 34973

Re: AT&T Cell Site Lease – 2773 NORTHWEST 8TH STREET, OKEECHOBEE, FL | FA: 10126641 | Site Name: WEST OKEE

Dear Landlord,

AT&T is in a very competitive space and we need to ensure that our lease terms and conditions are supportive of our current and future needs. AT&T has the option to either extend or terminate the above referenced lease ("Lease") in approximately three years. AT&T is instituting a new program to evaluate terms and conditions of all leases coming up for renewal, explore advance renegotiation options and consider possible alternative site locations. Our first choice is to create a new agreement that serves both parties well. Conditions we desire to implement in all new "go forward" leases include:

- "Real Estate Rights": In its simplest form, a lease right to utilize the entire RAD center without any "per touch" rent upcharges.
- Rents reduced to competitive rates.
- Reduced or no annual escalators (depending on other terms of the overall new deal).
- "Fair" early termination rights.

As you know, it takes time to negotiate, plan and execute a site relocation. That is why the AT&T's review process is starting now. Please review the specifics of our Lease agreement and advise if you are willing to enter into discussions regarding a new, modified contract. For new terms consistent with the above, AT&T will in turn consider additional term extensions.

AT&T will appreciate a reply within 60 days of receipt of this letter. A "no" or non-response will trigger AT&T's review of alternate locations. A positive response will be appreciated, but satisfactory terms and conditions negotiations must conclude within 90 days or AT&T will continue to evaluate alternative site locations. Responses may be emailed, standard mail, or a call as designated below. Please reference FA number 10126641 in your response so that AT&T may ensure your response is documented accordingly.

AT&T values its association with you and looks forward to continuing this relationship for the long term.

Sincerely,

Gregory D. Ohmer

Gregory D. Ohmer
Director Network Planning

Email Responses to: g04000@att.com with a Subject line of **Partnership – FA 10126641**

Mail Responses to: AT&T Cell Site Partnership 2423
FA 10126641
Rm 3022
1025 Lenox Park Blvd NE
Atlanta, GA 30319
Attn: Kevin Diehl

Telephone Number 866-354-5888

Document provided @ Mtg

AT&T

October 17, 2022

City of Okeechobee Board of Adjustment
55 SE 3rd Avenue
Okeechobee, Florida 34974
Tower ID: FA 15611191

RE: Letter of support from AT&T regarding proposed new tower construction by CitySwitch II-A, LLC ("CitySwitch") at Parcel: 31637350160001100010, 1117 NW 9th St. Okeechobee, FL, 34972
Tower ID: 15611191

To Whom It May Concern,

I manage AT&T's High Rent Relocation program, under which AT&T identifies high-cost, economically burdensome site leases that accommodate AT&T's communications equipment. My Team selectively relocates AT&T communications equipment onto lower-cost locations, while either improving or maintaining wireless coverage.

AT&T currently leases space on thousands of towers nationwide. Leases typically have a duration of five or ten years, after which we have the option to renew. AT&T maintains a co-location agreement with SBA for the current tower, in which SBA can and does sharply increase the rent, assesses other one-time costs and poses unacceptable logistical issues whenever AT&T replaces or adds new equipment. If CitySwitch is permitted to build the required tower, as we request, AT&T intends to relocate onto it. The current SBA tower in Okeechobee, FL is economically burdensome for AT&T and would not result in the same cost-effective operation as compared to what AT&T could achieve if it relocated on the local CitySwitch tower.

By sharply reducing its tower costs, AT&T is better positioned to invest in other new towers for improved coverage, and fund critical initiatives, such as FirstNet, for emergency response, 5G support, and other new technologies – all to the benefit of the community.

AT&T will only consider decommissioning an existing wireless facility in favor of moving to an alternate tower in limited circumstances. We bear a significant capital cost whenever we decommission a wireless facilities installation. As a result, on behalf of AT&T, we request your support in approving the new tower.

Sincerely,

Matt Hannah

Matt Hannah
Senior – Tech. Proj/Prog Mgmt

Document provided @ mtg

Federal Aviation Administration

« OE/AAA

Notice of Proposed Construction or Alteration - Off Airport

Add a New Case (Off Airport) - Desk Reference Guide V_2018.2.1

Add a New Case (Off Airport) for Wind Turbines - Met Towers (with WT Farm) - WT-Barge Crane - Desk Reference Guide V_2018.2.1

Project Name: PALM--000733299-22 **Sponsor:** Palm-Tech Consulting, LLC

Details for Case : FLC034 Okeechobee

Show Project Summary

Case Status

ASN: 2022-ASO-26444-OE
Status: Work In Progress
Public Comments: None

Date Accepted: 07/07/2022
Date Determined:
Letters: None
Documents: 07/07/2022 Okeechobee FLC034...
Project Documents:
None

Construction / Alteration Information

Notice Of: Construction
Duration: Permanent
If Temporary : Months: Days:
Work Schedule - Start:
Work Schedule - End:
For temporary cranes-Does the permanent structure require separate notice to the FAA? To find out, use the Notice Criteria Tool. If separate notice is required, please ensure it is filed. If it is not filed, please state the reason in the Description of Proposal.
State Filing: Not filed with State

Structure Summary

Structure Type: TOWER | Antenna Tower
Structure Name: FLC034 Okeechobee
FDC NOTAM:
NOTAM Number:
FCC Number:
Prior ASN:

Structure Details

Latitude: 27° 15' 7.71" N
Longitude: 80° 50' 41.28" W
Horizontal Datum: NAD83
Site Elevation (SE): 29 (nearest foot) PASSED
Structure Height (AGL): 160 (nearest foot)
Current Height (AGL): (nearest foot)
** For notice of alteration or existing provide the current AGL height of the existing structure. Include details in the Description of Proposal*
Minimum Operating Height (AGL): (nearest foot)
** For aeronautical study of a crane or construction equipment the maximum height should be listed above as the Structure Height (AGL). Additionally, provide the minimum operating height to avoid delays if impacts are identified that require negotiation to a reduced height. If the Structure Height and minimum operating height are the same enter the same value in both fields.*
Requested Marking/Lighting: None
Other :
Recommended Marking/Lighting:
Current Marking/Lighting: N/A Proposed Structure
Other :
Nearest City: Okeechobee
Nearest State: Florida
Description of Location: TBD / Okeechobee County
On the Project Summary page upload any certified survey.
Description of Proposal: New Tower

Proposed Frequency Bands

Low Freq	High Freq	Freq 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

« Previous Back to Search Result Next »

Document received @ BOA Meeting

AT&T Mobility Services LLC
Tower Strategy
17000 Cantrell Rd.
Little Rock, Arkansas 72201

SWORN STATEMENT OF SPENCER GAMRELL IN SUPPORT OF NEW TOWER CONSTRUCTION

BY CitySwitch II-A, LLC

PULASKI COUNTY)
) ss.
STATE OF ARKANSAS)

Spencer Gambrell, being first duly sworn on oath, deposes and says that:

1. I am an adult resident of the State of Arkansas and serve as Director — Network Planning for AT&T Wireless (**"AT&T"**).

2. I manage AT&T's high-rent relocation program, under which AT&T identifies high-cost or economically burdensome antenna site leases that accommodate AT&T's communications equipment and relocates its communications equipment onto lower-cost alternative antenna site lease locations to either improve or maintain wireless coverage.

3. I am familiar with the proposed tower to be constructed by CitySwitch II-A, LLC (**"CitySwitch"**) at 1117 NW 9th St., Okeechobee, Florida 34972 (the **"CitySwitch Tower"**). I am also familiar with the existing communications tower (the **"SBA Tower"**) owned by SBA 2012 TC Assets, LLC (**"SBA Communications"**) which is located at 1678 Northwest Ninth Avenue, Okeechobee, FL 34972. Both the existing SBA Tower and the location of the proposed CitySwitch Tower are located in AT&T's coverage search ring for this part of the City of Okeechobee and Okeechobee County.

4. AT&T currently leases space on the SBA Tower, along with related ground space at the base of the SBA Tower, to locate its communications equipment (the **"Wireless Facilities"**). AT&T has located its Wireless Facilities on the SBA Tower since August 2014, but AT&T now desires to relocate its Wireless Facilities onto the CitySwitch Tower as the SBA Tower has become a high-cost antenna site structure for AT&T.

[Plant City]
FA#[15762104]

5. This sworn statement is made to attest that having its Wireless Facilities remain on the SBA Tower, which is the only existing communications support structure in AT&T's search ring, is economically burdensome for AT&T and would not result in the same cost-effective operation as compared to what AT&T could achieve if it relocated its Wireless Facilities to the CitySwitch Tower.

Co-Location on the SBA Tower is Economically Burdensome

6. AT&T maintains a co-location agreement with SBA for the SBA Tower. Under this agreement, SBA increases the rent, assesses other costs and poses other logistical issues when AT&T installs additional Wireless Facilities on the SBA Tower. AT&T anticipates future rent increases and costs from SBA if it remains co-located at the SBA Tower. Those rent increases and costs would result from, among other things, AT&T's equipment rights on the SBA Tower.

7. The current rent charged by SBA to co-locate on the SBA Tower is over two- & one-half times what CitySwitch will charge AT&T to co-locate on the CitySwitch Tower. Pursuant to the agreement between AT&T and CitySwitch, annual rent increases are less than the annual rent increases charged by SBA. At the current rate of rent increases, over the next twenty (20) years, the difference in rent paid by AT&T to remain on the SBA Tower versus relocating on the CitySwitch Tower is well over two million dollars.

8. Since AT&T located on the SBA Tower in August 2014, rent and escalators have become more competitive in the tower marketplace. New tower companies have entered the marketplace since August 2014, which has also led to more competitive economic terms in tower lease agreements. Considering these competitive economic terms from other tower companies, AT&T has requested tower rent reductions from SBA. Unlike other tower companies, SBA has resisted an economically sustainable cost structure with its existing AT&T co-location leases, such that many of these leases have become economically burdensome for AT&T.

9. Decommissioning an existing Wireless Facility in favor of moving to an alternate tower location is something AT&T will only do in limited circumstances. AT&T will bear a significant capital cost in decommissioning its Wireless Facilities installation on the SBA Tower and relocating to the CitySwitch Tower. Despite these relocation costs, the CitySwitch Tower remains a better co-location option for AT&T.

10. AT&T has made this determination because the current rents and other charges to co-locate on the SBA Tower have been categorized as high-cost as compared to other existing sites in AT&T's portfolio and the rents charged by other tower companies, such as CitySwitch.

11. AT&T has entered into nationwide development and master lease agreements with CitySwitch, which I am familiar with. Under these agreements, CitySwitch will construct at its own expense and own communications towers upon which AT&T will lease space to install its Wireless Facilities. AT&T does not bear any costs for the construction of a tower owned by CitySwitch.

12. Per these agreements and as is the case with the CitySwitch Tower, AT&T pays CitySwitch rent in return for 30,000 square inches of wind load surface area of loading and defined space on each tower and does not pay increased rent for additions to its Wireless Facilities provided said facilities remain within the predetermined space and loading limits. The agreed upon tower space and loading limits have taken into consideration the future additions and upgrades projected for AT&T's Wireless Facilities.

13. There are no other structures (other than the SBA Tower) located in AT&T's search ring capable of accommodating its Wireless Facilities.

14. The economic terms imposed upon AT&T by SBA to remain co-located on the SBA Tower are not cost-effective and are economically burdensome for AT&T especially when the nearby CitySwitch Tower presents a more competitive and flexible co-location option.

The CitySwitch Tower provides superior mobile service functionality.

15. Technological changes and market trends in the wireless communications industry require AT&T to continuously upgrade its Wireless Facilities. AT&T is also obligated to build out FirstNet, which is our country's first nationwide integrated data network for providers of emergency services.

AT&T's lease agreement for the SBA Tower does not include "set aside" capacity reserved for the future needs of AT&T's Wireless Facilities. Every time AT&T desires to improve the Wireless Facilities installed on the SBA Tower, it must apply to SBA which then triggers an application fee and a lengthy administrative review process, which typically includes a structural analysis of the tower and an amendment to

the existing lease agreement. This administrative process may take several months and results in unnecessary time delay and additional costs in the deployment of the upgraded Wireless Facilities.

16. Conversely, AT&T's master tower lease agreement with CitySwitch allows AT&T to rent 30,000 square inches of tower space and loading on a CitySwitch Tower. This space and loading capacity is reserved exclusively for AT&T and will accommodate the needs for AT&T's Wireless Facilities well into the future. This arrangement benefits AT&T because it increases the speed of deploying Wireless Facilities and gives AT&T greater flexibility to upgrade technologies and respond to the ever-changing coverage and capacity demands of its wireless network. Provided it does not exceed the reserved space and capacity limits in the co-location agreement, AT&T is free to upgrade its Wireless Facilities on the CitySwitch Tower with little to no delay.

Spencer Gambrell

Subscribed and sworn to before me
this 20 day of October, 2022.

Notary Public State of Arkansas
My Commission Expires

BROOKE IRVING
MY COMMISSION # 12706833
EXPIRES: March 3, 2029
Saline County

[West Okee Relo]
FA#[15611191]

CONSTRUCTION DRAWINGS

SITE ID: FLC034

SITE NAME: OKEECHOBEE

SITE ADDRESS: 1117 NW 9TH ST
OKEECHOBEE, FL 34972

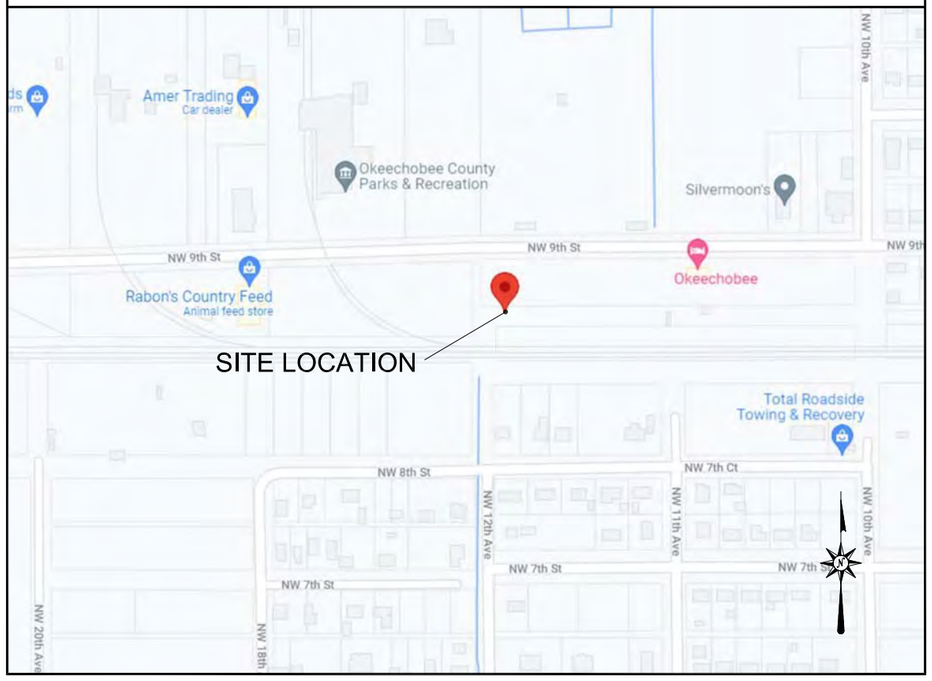
SITE SUMMARY

SITE ADDRESS:	1117 NW 9TH ST OKEECHOBEE, FL 34972
TOWER LATITUDE: TOWER LONGITUDE:	27°15'07.7"N (27.252140°) 80°50'41.3"N (–80.844796°)
GROUND ELEVATION:	29.3'±
ZONING JURISDICTION:	CITY OF OKEECHOBEE
ZONING JURISDICTION CONTACT:	PATTY BURNETTE (863) 763–9824
COMMITMENT NUMBER:	TBD
ZONING:	INDUSTRIAL
PARCEL/MAP NUMBER:	3–16–37–35–0160–00110–0010
LAND OWNER/CLIENT:	CSX TRANSPORTATION, INC. C/O TAX DEPT. J910 500 WATER STREET, SUITE 1208 JACKSONVILLE, FL 32202
APPLICANT:	CSX TRANSPORTATION, INC. C/O TAX DEPT. J910 500 WATER STREET, SUITE 1208 JACKSONVILLE, FL 32202
TOWER TYPE:	MONOPOLE
TOWER HEIGHT: APPURTENANCE HEIGHT:	150'–0" 160'–0"

PROJECT DIRECTORY

APPLICANT/LANDOWNER:	CSX TRANSPORTATION, INC. C/O TAX DEPT. J910 500 WATER STREET, SUITE 1208 JACKSONVILLE, FL 32202 CONTACT: THOMAS PAULY PHONE: (904) 279–3837 EMAIL: THOMAS_PAULY@CSX.COM
PROJECT MANAGEMENT TEAM:	IGNITE WIRELESS, INC. 102 MARY ALICE PARK RD, SUITE 505 CUMMING, GA 30040 PHONE: (470) 239–0846 FAX: –
SITE DESIGN:	FDH INFRASTRUCTURE SERVICES 6521 MERIDIEN DRIVE RALEIGH, NC 27616 CONTACT: JAMES R. BILLUPS, PE, CFM PHONE: (919) 755–1012

VICINITY MAP



CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING:

1. FLORIDA BUILDING CODE
2. ANSI/TIA/EIA–222–G
3. NATIONAL ELECTRIC CODE 2014
4. LOCAL BUILDING CODE
5. CITY/COUNTY ORDINANCES
6. 2020 FLORIDA FIRE PREVENTION CODE

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, THEREFORE HANDICAP ACCESS IS NOT REQUIRED. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

UNDERGROUND SERVICE ALERT

UTILITIES PROTECTION CENTER, INC.

811

48 HOURS BEFORE YOU DIG

LEGAL DESCRIPTION

REFER TO TOPOGRAPHICAL SURVEY AND SITE PLAN FOR LEGAL DESCRIPTION OF PARENT PARCEL AND LEASE AREA.

SHEET INDEX

SHEET NO.	DESCRIPTION	REV. NO.	REVISION DATE
T–1	TITLE SHEET	0	11/29/2021
1 OF 2	SURVEY SHEET	0	09/28/2021
2 OF 2	SURVEY SHEET	0	09/28/2021
GN–1	GENERAL NOTES	0	11/29/2021
GN–2	GENERAL NOTES	0	11/29/2021
GN–3	GENERAL NOTES	0	11/29/2021
GN–4	GENERAL NOTES	0	11/29/2021
GN–5	SITE SIGNAGE	0	11/29/2021
C–1	OVERALL SITE PLAN	0	11/29/2021
C–2	ENLARGED SITE PLAN	0	11/29/2021
C–3	GRADING & EROSION CONTROL PLAN	0	11/29/2021
C–3.1	SILT FENCE DETAILS	0	11/29/2021
C–3.2	GRADING DETAILS	0	11/29/2021
C–4	TOWER ELEVATION	0	11/29/2021
C–5	FENCE DETAILS	0	11/29/2021
E–1	ELECTRICAL PLAN	0	11/29/2021
E–2	METER & TELCO RACK	0	11/29/2021
E–3	ELECTRICAL TRENCH DETAILS	0	11/29/2021
G–1	COMPOUND GROUNDING PLAN	0	11/29/2021
G–2	GROUNDING DETAILS	0	11/29/2021
G–3	GROUNDING DETAILS	0	11/29/2021
G–4	GROUNDING NOTES	0	11/29/2021

SCOPE OF WORK

INSTALLATION OF AN UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF A 150–0" MONOPOLE TOWER WITH 10' LIGHTNING ROD. THE TOWER WILL BE PLACED INSIDE A FENCED COMPOUND, INSIDE A 2,500± SQ.FT. LEASE AREA.

CITYSWITCH

1900 CENTURY PLACE, SUITE 320
ATLANTA, GA 30345

FDH INFRASTRUCTURE SERVICES
ENGINEERING INNOVATION
FDH INFRASTRUCTURE SERVICES, LLC
6521 MERIDIEN DRIVE RALEIGH, NC 27616
PHONE: 919-755-1012 FAX: 919-755-1031

SUBMITTALS

REV	DATE	DESCRIPTION	BY	CHK'D
0	11/29/2021	CONSTRUCTION	MTS	JRB

DENNIS DANIEL ABEL LICENSE No 62750 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/29/21

DENNIS D. ABEL, PE
FDH INFRASTRUCTURE SERVICES, LLC
COA 28282
STATE LICENSE NO. 62750

FDH JOB NUMBER: PR-006900

SITE ID: FLC034

SITE NAME: OKEECHOBEE

FA LOCATION: -

ADDRESS: 1117 NW 9TH ST
OKEECHOBEE, FL 34972

SHEET TITLE: TITLE SHEET

SHEET NUMBER: T-1

0 50' 100'

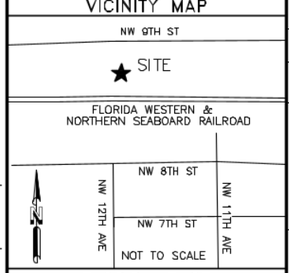
SCALE: 1" = 50'

TOWER INFO

LATITUDE: 27°15'07.705" NORTH
LONGITUDE: 80°50'41.267" WEST
(NAD 83)
GROUND ELEVATION: 29.3'
ABOVE MEAN SEA LEVEL (NAVD88)

LAND OWNER/CLIENT
CSX
500 WATER STREET
JACKSONVILLE, FL 32202

VICINITY MAP



FLORIDA EAST

GRID NORTH

GRID TO TRUE NORTH CONVERGENCE
0°04'15.8483"

TRUE NORTH TO MAGNETIC DECLINATION
6°47' W

COMBINED SCALE FACTOR
0.999944091

LEGEND

- ○ = 5/8" REBAR SET
- ● = FOUND PROPERTY MARKER
- POB = POINT OF BEGINNING
- POC = POINT OF COMMENCEMENT
- POE = POINT OF ENDING
- ▲ = CALCULATED POINT
- (M) = MEASURED
- = POWER POLE
- = POWER BOX
- = TELEPHONE PEDESTAL
- = TEMPORARY BENCHMARK
  PK NAIL SET
  ELEVATION = 30.93'
- ROW = RIGHT-OF-WAY
- OP = OVERHEAD POWER

FLOOD NOTE

By graphic plotting only, the subject property appears to lie in Zone 'X' of the Flood Insurance Rate Map Community Panel No. 12093C0415C, which bears an effective date of July 16, 2015 and IS NOT in a special flood hazard area.
Zone 'X': Area of minimal flood hazard.

SIGHT DISTANCE
800'± 1074'±

NW 9TH STREET
PUBLIC RIGHT-OF-WAY VARIES
(ASPHALT SURFACE)

1074' TO INTERSECTION
NW 10TH AVENUE

30" CMP
ELEV.=27.83'
℄ OF DITCH

POC
CAPPED REBAR(FOUND)
STAMPED(DEHAYES PSM 5178)
N:1060999.896, E:706535.719

POE

GRASSED

S 14°33'54" E
195.93'

A63.97'
R309.45'
D11°50'49"
BN 05°56'55" E
C64.14'

EXISTING GRAVEL ROAD

56.21'
N 00°00'00" W

POB
50'X50' TOWER COMPOUND AREA
2500.00 SQ.FT.±
0.06 ACRES±

POB
30' WIDE ACCESS/
UTILITY CORRIDOR
3,613.93 SQ.FT.±
0.08 ACRES±

35.00'
35.00'
50.00'
N 89°52'26" E
N 00°07'34" W
50.00'
S 00°07'34" E
50.00'
S 89°52'26" W
50.00'

CENTER
OF TOWER

NO BUILDINGS
NEAR AREA
OF ℄ DITCH

45' SETBACK LINE

PARENT TRACT
CSX TRANSPORTATION, INC.
BOOK 745 PAGE 850
PARCEL: 3-16-37-35-0160-00110-0010
PER TAX CARD

60'
NORTH FOURTEENTH STREET
BOOK 745 PAGE 850

PLAT BOOK 1 PAGE 25
BLOCK 11

FT DRUM CORPORATION
PARCEL: 1-17-37-35-0A00-00001-1000
PER TAX CARD

NW 12TH AVENUE
BOOK 745 PAGE 850

N 00°03'37" W
195.93'

CAPPED REBAR(FOUND)
STAMPED(DEHAYES PSM 5178)

SALRY RR, C/O CSX CORP
PARCEL: 1-13-38-36-0A00-00002-0000
PER TAX CARD

SALRY RR
PARCEL: 2-16-37-35-0A00-00005-0000
PER TAX CARD

FLORIDA WESTERN & NORTHERN SEABOARD RAILROAD

OKEECHOBEE
FLC034
NW 1/4, SEC. 16, T-37-S, R-35-E
OKEECHOBEE COUNTY, FLORIDA

NO.	REVISION	DATE	BY

PROJECT NO.
21-5500

DRAWN BY: KM
CHECKED BY: PWK
FIELD CREW: BB
APPROVED BY: WHS
DATE: 09/28/21
SCALE: 1" = 50'

SHEET 1 OF 2

SITE SPECIFIC PURPOSE SURVEY

FOR:
CITY SWITCH II-A, LLC
1900 CENTURY PLACE NE, SUITE 320
ATLANTA, GEORGIA

SMW Engineering Group, Inc.
158 Business Center Drive
Birmingham, Alabama 35244
Ph: 205-252-6985
www.smweng.com

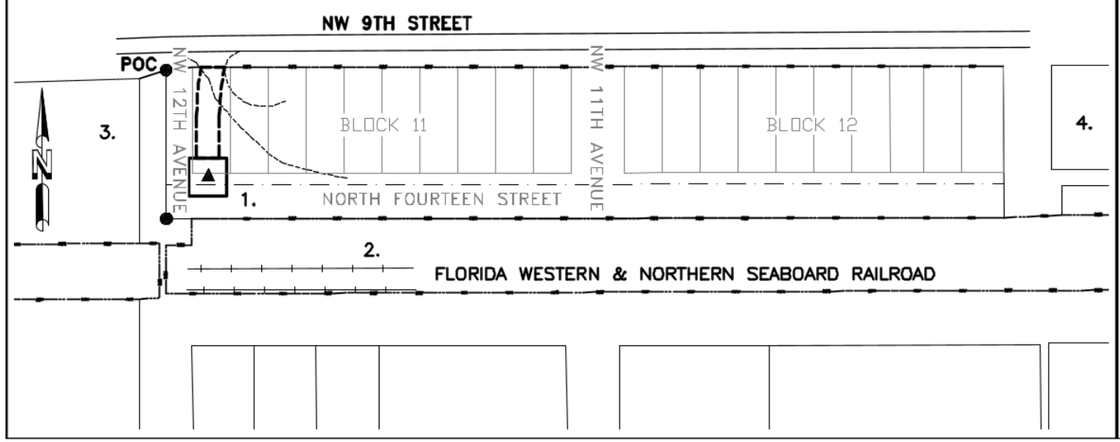
SMW ENGINEERING GROUP, INC.

SURVEYOR'S NOTES

1. This is a Site Specific Purpose Survey, made on the ground under the supervision of a Florida Registered Land Surveyor. Date of field survey is September 14, 2021.
2. The following surveying instruments were used at time of field visit: Topcon GM-55 and Topcon Hiper SR G.P.S. receiver, (R.T.K. network capable).
3. Bearings are based on Florida East State Plane Coordinates NAD 83 by GPS observation.
4. No underground utilities, underground encroachments or building foundations were measured or located as a part of this survey, unless otherwise shown. Trees and shrubs not located, unless otherwise shown.
5. Benchmark used is a GPS Continuously Operating Reference Station, PID DE9138. Onsite benchmark is as shown hereon. Elevations shown are in feet and refer to NAVD 88.
6. This survey was conducted for the purpose of a Site Specific Purpose Survey only, and is not intended to delineate the regulatory jurisdiction of any federal, state, regional or local agency, board, commission or other similar entity.
7. Attention is directed to the fact that this survey may have been reduced or enlarged in size due to reproduction. This should be taken into consideration when obtaining scaled data.
8. This Survey was conducted without the benefit of an Abstract Title search.
9. Surveyor hereby states the Geodetic Coordinates and the elevation shown for the proposed centerline of the tower are accurate to within +/- 20 feet horizontally and to within +/- 3 feet vertically (FAA Accuracy Code 1A).
10. Survey shown hereon conforms to the Minimum Requirements as set forth by the State Board for a Class "A" Survey.
11. Field data upon which this map or plat is based has a closure precision of not less than one-foot in 15,000 feet (1':15,000') and an angular error that does not exceed 10 seconds times the square root of the number of angles turned. Field traverse was not adjusted.
12. This survey is not valid without the original signature and the original seal of a state licensed surveyor.
13. This is a Site Specific Purpose Survey and does not include the entire parent parcel.
14. Zoning: (as supplied by client)
    Zoning Jurisdiction: City
    Zoning Land Use: A – Active

1. PARENT TRACT
   CSX TRANSPORTATION, INC.
   BOOK 745 PAGE 850
   PARCEL: 3-18-37-35-0180-00110-0010
   PER TAX CARD
2. SALRY RR
   PARCEL: 2-16-37-35-0A00-00005-0000
   PER TAX CARD
3. FT DRUM CORPORATION
   PARCEL: 1-17-37-35-0A00-00001-1000
   PER TAX CARD
4. ERVIN LEVERN
   PARCEL: 1-15-37-35-0010-00430-0120
   PER TAX CARD

PARENT TRACT OVERVIEW NOT TO SCALE



PARENT TRACT (BOOK 745 PAGE 850)
A parcel of land lying in Section 16, Township 37 South, Range 35 East, Okeechobee County, Florida, and lying in and containing a portion of that certain parcel of Land as recorded in Official Records Book 379, Page 1216 of the public records of Okeechobee County, Florida, and being more particularly described as follows:
All of Block 11 and 12; all of N.W. 11th Avenue (70 feet in width) lying between said Blocks 11 and 12; all of N.W. 12th Avenue (35 feet in width) lying West of and contiguous with said Block 11; all of North Fourteenth Street (Name per Plat)(60 feet in width) lying South of and contiguous with the above described property; all lying in the North West Addition to Okeechobee, Fla. according to the Plat thereof as recorded in Plat Book 1, Page 25 of the Public Records of Okeechobee County, Florida.

50' x 50' TOWER COMPOUND AREA (AS-SURVEYED)
A portion of the CSX Transportation, Inc. tract described in Book 745, Page 850 as recorded in the Office of Clerk of Circuit Court for Okeechobee County, Florida, lying in the Northwest 1/4, Section 16, Township 37 South, Range 35 East, said Okeechobee County, Florida and being more particularly described as follows:

Commencing at a capped rebar, stamped DEHAYES PSM 5178, found marking the Northwest corner of said tract, having Florida East State Plane coordinates: N:1060999.896, E:706535.719; thence run S 14°33'54" E for a distance of 119.78 feet to a set 5/8" rebar and the Point of Beginning; thence run N 89°52'26" E for a distance of 50.00 feet to a point; thence run S 00°07'34" E for a distance of 50.00 feet to a point; thence run S 89°52'26" W for a distance of 50.00 feet to a point; thence run N 00°07'34" W for a distance of 50.00 feet to the Point of Beginning. Said tower compound area contains 2,500.00 square feet or 0.06 acres, more or less.

30' WIDE ACCESS & UTILITY CORRIDOR (AS-SURVEYED)
A portion of the CSX Transportation, Inc. tract described in Book 745, Page 850 as recorded in the Office of Clerk of Circuit Court for Okeechobee County, Florida, lying in the Northwest 1/4, Section 16, Township 37 South, Range 35 East, said Okeechobee County, Florida and being more particularly described as follows:

Commencing at a capped rebar, stamped DEHAYES PSM 5178, found marking the Northwest corner of said tract, having Florida East State Plane coordinates: N:1060999.896, E:706535.719; thence run S 14°33'54" E for a distance of 119.78 feet to a set 5/8" rebar; thence run N 89°52'26" E for a distance of 25.00 feet to the Point of Beginning; of an Access & Utility Corridor being 30 feet in width and lying 15 feet each side of the following described centerline; thence run N 00°00'00" W for a distance of 56.21 feet to a point; the beginning of an arc turning to the right having a radius of 309.45 feet, having a chord bearing and distance of N 05°56'55" E for a distance of 64.14 feet; thence run along said arc for 64.26 feet to a point on the Southerly right-of-way of NW 9th Street, a variable public right-of-way and the Point of Ending. Said easement contains 3,613.93 square feet or 0.08 acres, more or less.

SURVEYOR'S CERTIFICATION

I certify that all parts of this survey and drawing have been completed in accordance with the current requirements of the Standards of Practice for Surveying in the State of Florida to the best of my knowledge, information, and belief.

PRELIMINARY UNTIL FINALIZED WITH SIGNATURE AND SEAL
William H. Sommerville, III
Florida License No. 0006141

OKEECHOBEE
FLC034
NW 1/4, SEC. 16, T-37-S, R-35-E
OKEECHOBEE COUNTY, FLORIDA

NO.	REVISION	DATE	BY

PROJECT NO.
21-5500

DRAWN BY: KM
CHECKED BY: PWK
FIELD CREW: BB
APPROVED BY: WHS
DATE: 09/28/21
SCALE: N.T.S.
SHEET 2 OF 2

SITE SPECIFIC PURPOSE SURVEY

FOR:
CITY SWITCH II-A, LLC
1900 CENTURY PLACE NE, SUITE 320
ATLANTA, GEORGIA

SMW Engineering Group, Inc.
158 Business Center Drive
Birmingham, Alabama 35244
Ph: 205-252-6985
www.smweng.com

SMW ENGINEERING GROUP, INC.

GENERAL NOTES:

1. EVERY EFFORT HAS BEEN MADE IN THE CONSTRUCTION DOCUMENTS TO PROVIDE A COMPLETE SCOPE OF WORK. MINOR DISCREPANCIES IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL NOT EXCUSE CONTRACTORS FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.

2. BIDDING REQUIREMENTS
   a. PRIOR TO THE SUBMISSION OF BIDS, VISIT THE JOB SITE TO BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT. VISIT THE SITE WITH THE CONSTRUCTION DOCUMENTS TO VERIFY FIELD DIMENSIONS AND CONDITIONS TO CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN.
   b. PROVIDE NOTIFICATION TO OWNER'S REPRESENTATIVE IN WRITING OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO SUBMISSION OF PRICE PROPOSAL. IN THE EVENT OF DISCREPANCIES, PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.
   c. WHEN TOWER IS OWNED BY A THIRD PARTY, CONTACT TOWER OWNER REPRESENTATIVE FOR PARTICIPATION IN BID WALK.
   d. WHERE ANCHORING TO A CONCRETE ROOF SLAB, CONFIRM (PRIOR TO SUBMITTING BID) THE PRESENCE OF POST TENSION TENDONS. INCLUDE PROVISIONS FOR X-RAY PROCEDURES TO LOCATE THE TENDONS PRIOR TO CONSTRUCTION.

3. DRAWINGS ARE NOT TO BE SCALED. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONSTRUCTION DOCUMENTS ARE INTENDED FOR DIAGRAMMATIC PURPOSES ONLY, UNO.

4. FURNISH ALL MATERIALS, EQUIPMENT, LABOR, AND ANY REQUIREMENTS NECESSARY TO COMPLETE PROJECT AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS.

5. SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONSTRUCTION DOCUMENTS. PROVIDE ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

6. ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES APPLICABLE TO THE WORK.

7. CONSTRUCTION COORDINATION REQUIREMENTS
   a. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO START OF WORK.
   b. OBTAIN ALL PERMITS. SCHEDULE AND COORDINATE ALL INSPECTIONS.
   c. PROVIDE, AT THE PROJECT SITE, A FULL, CURRENT SET OF CONSTRUCTION DOCUMENTS FOR USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
   d. RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DOCUMENTS.
   e. PERFORM WORK DURING OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.
   f. PROVIDE FALL PROTECTION IN ACCORDANCE WITH FEDERAL, STATE, LOCAL, AND OWNER REQUIREMENTS.
   g. IF FAA LIGHTING AND MARKING IS PRESENT ON SITE AND IS POWERED BY ELECTRICAL SERVICE THAT IS TO BE INTERRUPTED, MAINTAIN THE NECESSARY LIGHTS DURING CONSTRUCTION AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A DISRUPTION.
   h. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.
   i. STRUCTURAL COMPONENTS OF ADJACENT FACILITIES SHALL NOT BE ALTERED BY THIS CONSTRUCTION PROJECT, UNO. ENSURE THAT EXCAVATION DOES NOT AFFECT ADJACENT STRUCTURES.
   j. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL-APPROVED MATERIALS, IF APPLICABLE.
   k. BURIED UTILITIES MAY EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY NOT BE COMPLETE. CONTACT THE UTILITY LOCATE SERVICE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.
   l. COORDINATE ALL POWER INSTALLATION WITH POWER COMPANY AS REQUIRED. REPORT POWER INSTALLATION COORDINATION SOLUTION(S) TO OWNER'S REPRESENTATIVE.
   m. PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
   n. KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH. REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OR PREMISES. SITE SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
   o. MAINTAIN THE INTEGRITY OF THE BUILDING ENVELOPE AND CONSTRUCT BARRIERS IN THE AREA OF WORK TO PREVENT DAMAGE FROM WEATHER AS WELL AS FROM CONSTRUCTION DUST AND DEBRIS.

8. INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S SPECIFICATIONS, UNO, OR WHERE LOCAL CODES OR ORDINANCES DIRECT OTHERWISE.

9. ANY SUBSTITUTIONS OF MATERIALS AND/OR EQUIPMENT, MUST BE APPROVED BY OWNER'S REPRESENTATIVE.

10. DOCUMENT ALL CHANGES MADE IN THE FIELD BY MARKING UP THE APPROVED CONSTRUCTION DRAWINGS AND SUBMITTING THE REDLINED SET TO OWNER'S REPRESENTATIVE UPON COMPLETION. DOCUMENT ALL WORK PERFORMED WITH PHOTOGRAPHS TO BE SUBMITTED WITH REDLINED CONSTRUCTION DRAWINGS.

11. PROVIDE SUPPORTS FOR CABLES TO THE ELEVATION OF ALL INITIAL AND FUTURE ANTENNAS IN ACCORDANCE WITH ALL MANUFACTURER'S REQUIREMENTS.

12. A STRUCTURAL ANALYSIS AND A MOUNT ANALYSIS (IF REQUIRED) TO DETERMINE THE STRUCTURAL CAPACITY TO SUPPORT THIS PROPOSED EQUIPMENT WAS PERFORMED OUTSIDE THE SCOPE OF THIS PROJECT.

13. CONFIRM THAT THE REQUIREMENTS OF THE STRUCTURAL ANALYSIS, MOUNT ANALYSIS AND ANY ASSOCIATED MODIFICATIONS HAVE BEEN FOLLOWED AND COMPLETED AS REQUIRED TO SUPPORT THE EQUIPMENT ASSOCIATED WITH THIS PROJECT.

SPECIAL INSPECTIONS:

1. WHEN REQUIRED, PROVIDE SPECIAL INSPECTIONS PERFORMED BY AN INDEPENDENT INSPECTOR, APPROVED BY OWNER'S REPRESENTATIVE AND THE LOCAL JURISDICTION.

2. THE SPECIAL INSPECTOR SHALL PROVIDE A COPY OF THE REPORT TO THE OWNER'S REPRESENTATIVE, STRUCTURAL ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL.

ABBREVIATIONS

A/C	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
AGL	ABOVE GROUND LEVEL, ABOVE GRADE LEVEL
AWS	ADVANCED WIRELESS SERVICE
BBU	BATTERY BACKUP UNIT
BLDG	BUILDING
BLK	BLOCKING
CLG	CEILING
CLR	CLEAR
CONC	CONCRETE
CONT	CONTINUOUS
D	DEPTH
DBL	DOUBLE
DEG	DEGREE
ø, DIA	DIAMETER
DIAG	DIAGONAL
DN	DOWN
DET	DETAIL
DWG	DRAWING
E	EXISTING
EA	EACH
ELEV, EL	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
EXT	EXTERIOR
FIF	FIBER INTERFACE FRAME, FACILITY INTERFACE FRAME
FIN	FINISH
FLUOR	FLUORESCENT
FLR	FLOOR
FT	FOOT, FEET
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GRND	GROUND
GSM	GLOBAL SYSTEM MOBILE
GYP	GYPSUM BOARD
HORZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
ID	INSIDE DIAMETER
IN	INCH, INCHES
INSUL	INSULATION
INT	INTERIOR
L	LENGTH
LBS	POUNDS
LTE	LONG TERM EVOLUTION
MAX	MAXIMUM
MECH	MECHANICAL
MTL	METAL
MFR	MANUFACTURE
MGR	MANAGER
MIN	MINIMUM
MISC	MISCELLANEOUS
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PCS	PERSONAL COMMUNICATION SERVICE
PDU	POWER DISTRIBUTION UNIT
PROJ	PROJECT
PROP	PROPERTY
PT	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
REQ	REQUIRED
RF	RADIO FREQUENCY
RM	ROOM
RO	ROUGH OPENING
RRH	REMOTE RADIO HEAD
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SF	SQUARE FOOT
SS	STAINLESS STEEL
STL	STEEL
SUSP	SUSPENDED
TMA	TOWER MOUNTED AMPLIFIER
TND	TINNED
TYP	TYPICAL
UMTS	UNIVERSAL MOBILE TELECOMMUNICATION SERVICE
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WCS	WIRELESS COMMUNICATION SERVICE
WP	WATER PROOF

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6521 MERIDIEN DRIVE RALEIGH, NC 27616
PHONE: 919-755-1012 FAX: 919-755-1031

SUBMITTALS

REV	DATE	DESCRIPTION	BY	CHK'D
0	11/29/2021	CONSTRUCTION	MTS	JRB

DENNIS DANIEL ABEL LICENSE No 62750 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/29/21

DENNIS D. ABEL, PE
FDH INFRASTRUCTURE SERVICES, LLC
COA 28282
STATE LICENSE NO. 62750

FDH JOB NUMBER:
PR-006900

SITE ID:
FLC034

SITE NAME:
OKEECHOBEE

FA LOCATION:
-

ADDRESS:
1117 NW 9TH ST
OKEECHOBEE, FL 34972

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
GN-1

SITE NOTES:

1. CLEAR AND GRUB SITE OF ALL VEGETATION, PAVING, GRAVEL BASE AND OTHER DEBRIS NOT TO REMAIN. SUBGRADES ARE TO BE SET PRIOR TO LANDSCAPE INSTALLATION.
2. PROVIDE ELEVATION OF SUBGRADE WITHIN 0.10 FOOT OF ELEVATIONS SHOWN ON PLAN MINUS DEPTH OF TOPSOIL, FILL, AND MULCH.
3. ROUGH GRADE ALL AREAS WITHIN 1 FOOT OF ELEVATIONS INDICATED BEFORE PLANTING. PROVIDE POSITIVE DRAINAGE AWAY FROM EQUIPMENT SLABS, BUILDINGS AND THROUGH ALL PLANTER AREAS TO AVOID LOW SPOTS AND STANDING WATER.
4. REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUB GRADE IN ITS PRESENT STATE. AFTER REWORKING, IF THE MATERIAL REMAINS UNSUITABLE, UNDERCUT AND REPLACE WITH SUITABLE MATERIAL AT CONTRACTOR'S EXPENSE. ALL SUB GRADES AND AGGREAGATE BASE COURSES SHALL BE PROOF ROLLED WITH A FULLY LOADED TANDEM DUMP TRUCK, AND ANY SOFT SPOTS SHALL BE REWORKED OR REPLACED UNTIL PASSING PROOF ROLL.
5. BLEND NEW GRADES NATURALLY INTO EXISTING GRADES.
6. MAINTAIN POSITIVE DRAINAGE ON THE SITE AT ALL TIMES, INCLUDING KEEPING ALL EXISTING AND NEW DITCHES, PIPES AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION. ANY DAMAGE RESULTING FROM FAILURE TO COMPLY SHALL BE REMEDIED BY CONTRACTOR
7. IF REQUIRED, MAINTAIN CONTINUOUS EROSION CONTROL ON THE DOWNSTREAM SIDE OF THE SITE.
8. IN LANDSCAPE AREAS, FINISH GRADES ARE TO FOLLOW THE GRADES AND EDGE DETAILS INDICATED AND BE MOUNDED 6 INCHES IN THE CENTER OF THE BED ABOVE THE EDGE OF THE LANDSCAPE AREA.
9. DO NOT PLACE FILL OR EMBANKMENT MATERIAL ON FROZEN GROUND. DO NOT PLACE FROZEN MATERIALS, SNOW OR ICE IN ANY FILL OR EMBANKMENT.
10. NOTIFY OWNER'S REPRESENTATIVE IF MODIFICATIONS TO THE PROPOSED GRADING SEEM NECESSARY AND OBTAIN APPROVAL PRIOR TO START OF WORK.
11. FOOTINGS SHALL BEAR ON FIRM, NATURAL, UNDISTURBED SOIL, OR ON ENGINEERED FILL (COMPACTED TO 95% ASTM D698). ENSURE THAT EXCAVATIONS ARE FREE OF ORGANIC MATERIAL, DEBRIS, OR OTHER FOREIGN MATERIAL. NOTIFY OWNER'S REPRESENTATIVE IF ANY UNUSUAL CONDITIONS ARE ENCOUNTERED.
12. FILL AND SLAB BASE MATERIAL SHALL BE 3/4" MINUS CRUSHED ROCK PLACED IN 8" (MAXIMUM) LOOSE LIFTS AND COMPACTED TO 98% ASTM D698.

CONCRETE NOTES:

1. CONCRETE AND REINFORCING SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

CONCRETE CONSTRUCTION	ACI 318
CEMENT	ASTM C150, PORTLAND CEMENT TYPE II, UNO
REINFORCING STEEL	ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, fy=60 Ksi, UNO
WELDED WIRE FABRIC	ASTM A185
SPIRAL REINFORCEMENT	ASTM A615, GRADE 60, fy=60 KSI
ANCHOR BOLTS	ASTM A307
GRADE 60 REBAR WELDING	ASTM A706

   NOTES: ANY BARS SO NOTED ON THE DRAWINGS SHALL BE GRADE 60, fy=60 KSI. REINFORCING COMPLYING WITH ASTM A615(S1) MAY BE WELDED ONLY IF MATERIAL PROPERTY REPORTS INDICATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D14 ARE SUBMITTED.

2. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNFORMED SURFACES, EARTH FACE		3"
FORMED SURFACES EXPOSED TO EARTH OR WEATHER	(≥ #6 BARS)	2"
FORMED SURFACES EXPOSED TO EARTH OR WEATHER	(≤ #5 BARS)	1-1/2"
SLABS AND WALLS	(INTERIOR FACE)	3/4"

3. AIR ENTRAIN ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, C618, C989 AND C1017. AIR ENTRAIN CONCRETE EXPOSED TO FREEZING AND THAWING WHILE MOIST IN ACCORDANCE WITH ACI 318, SECTION 4.4.1.
4. DETAIL REINFORCING STEEL (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315 AND 318. LAP ALL CONTINUOUS REINFORCEMENT AT LEAST 30 BAR DIAMETERS OR A MINIMUM OF 2'-0". PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS AT LEAST 30 BAR DIAMETERS OR A MINIMUM OF 2'-0". LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.
5. PERFORM WELDING OF GRADE 60 REINFORCING BARS (IF REQUIRED) USING LOW HYDROGEN ELECTRODES. PERFORM WELDING OF GRADE 40 REINFORCING BARS (IF REQUIRED) USING E70 XX ELECTRODES. DO NOT WELD WITHIN 4" OF COLD BENDS IN REINFORCING STEEL.
6. DO NOT FIELD BEND REINFORCING PARTIALLY EMBEDDED IN CONCRETE UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE ENGINEER.
7. SUPPORT BARS ON CHAIRS OR DOBIE BRICKS.
8. FURNISH NON-SHRINK GROUT BY AN APPROVED MANUFACTURER. MIX AND PLACE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3 KSI, MINIMUM).
9. ALL EXPANSION ANCHORS TO BE HILTI BRAND, UNO. TEST ADHESIVE ANCHORS TO CONFIRM CAPACITY UNLESS WAIVED BY ENGINEER AND LOCAL JURISDICTION.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

WIDE FLANGE SHAPES	ASTM A992, GRADE 50
SHAPES, PLATES, ANGLES, & RODS	ASTM A36, Fy 36 KSI
SPECIAL SHAPES AND PLATES	ASTM A572, Fy 50 KSI
PIPE COLUMNS	ASTM A53, Fy 35 KSI
STRUCTURAL TUBING	ASTM A500, Fy 46KSI
ANCHOR BOLTS	ASTM A307
CONNECTION BOLTS	ASTM A325 TWIST-OFF

2. BASE STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION (INCLUDING FIELD WELDING, HIGH STRENGTH FIELD BOLTING, EXPANSION BOLTS, AND THREADED EXPANSION ANCHORS) ON THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" LATEST EDITION.
3. HOT DIP GALVANIZE AFTER FABRICATION PER A123/A123M-00 ALL STEEL EXPOSED TO WEATHER AND WHERE NOTED.
4. CONFORM TO ALL AISC AND AWS STANDARDS FOR WELDING. PERFORM WELDING BY ANSI/AWS D1.1 CERTIFIED WELDERS USING E70 XX ELECTRODES. USE ONLY PRE-QUALIFIED WELDS AS DEFINED BY AWS.
5. PROVIDE COLD-FORMED STEEL FRAMING MEMBERS OF THE SHAPE, SIZE, AND GAGE SHOWN ON THE PLANS. PROVIDE MINIMUM SECTION PROPERTIES INDICATED. ALL COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
6. FOR BOLTED CONNECTIONS, USE 3/4" DIA., BEARING-TYPE, A325 BOLTS WITH A MINIMUM OF TWO BOLTS, UNO.
7. FOR NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING, USE 5/8" DIA. A307 BOLTS, UNO.
8. PREPARE AND PAINT IN ACCORDANCE WITH THE PAINT MANUFACTURERS WRITTEN INSTRUCTIONS, UNO.
9. TOUCH UP ALL FIELD DRILLING, WELDING AND CUT SURFACES WITH 2 COATS OF GALVACON (ZINC RICH PAINT) OR APPROVED EQUAL.

SITE SPECIFIC SOIL MANAGEMENT PLAN:

1. SOIL MATERIALS EXCAVATED BY THE CONTRACTOR FROM WITHIN RAIL RIGHT-OF-WAY (ROW) SHALL BE RE-USED AS BACKFILL AT THE POINT OF ORIGIN OR SHALL BE RE-DISTRIBUTED ON THE ROW IN THE NEAR VICINITY OF THE POINT OF ORIGIN.

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6521 MERIDIEN DRIVE RALEIGH, NC 27616
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SUBMITTALS

REV	DATE	DESCRIPTION	BY	CHK'D
0	11/29/2021	CONSTRUCTION	MTS	JRB

DENNIS DANIEL ABEL LICENSE No 62750 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/29/21

DENNIS D. ABEL, PE
FDH INFRASTRUCTURE SERVICES, LLC
COA 28282
STATE LICENSE NO. 62750

FDH JOB NUMBER:
PR-006900

SITE ID:
FLC034

SITE NAME:
OKEECHOBEE

FA LOCATION:
-

ADDRESS:
1117 NW 9TH ST
OKEECHOBEE, FL 34972

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
GN-2

ELECTRICAL NOTES:

GENERAL

GENERAL CONDITIONS:

A. CONTRACTOR SHALL INSPECT THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARD TO THE CONTRACTORS FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE ISSUED TO CONSTRUCTION MANAGER IN WRITING FOR CLARIFICATION PRIOR TO SUBMITTAL OF BID AND CONTRACT AWARD.

B. THE CONTRACTOR SHALL OBTAIN PERMITS, LICENSES, MAKE ALL DEPOSITS, AND PAY ALL FEES REQUIRED FOR THE CONSTRUCTION OF WORK UNDER THIS SECTION.

C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. DRAWINGS SHALL NOT BE SCALED TO DETERMINE DIMENSIONS.

LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES:

A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AND ALL APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES. CONDUIT BENDS SHALL BE THE RADIUS BEND FOR THE TRADE SIZE OF CONDUIT IN COMPLIANCE WITH THE LATEST EDITIONS OF NEC.

REFERENCES:

A. THE PUBLICATIONS LISTED BELOW ARE PART OF THIS SPECIFICATION. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE. THIS SPECIFICATION IS ISSUED FOR CONSTRUCTION UNLESS OTHERWISE NOTED. EXCEPT AS MODIFIED BY THE REQUIREMENT SPECIFIED HEREIN OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THIS SPECIFICATION SHALL CONFORM TO THE APPLICABLE PROVISION OF THESE PUBLICATIONS.

1. ANSI/IEEE (AMERICAN NATIONAL STANDARDS INSTITUTE)
2. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)
3. ICEA (INSULATED CABLE ENGINEERS ASSOCIATION)
4. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)
5. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
6. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)
7. UL (UNDERWRITERS LABORATORIES. INC.)
8. AT&T GROUNDING AND BONDING STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T GROUNDING CHECKLIST, LATEST VERSION

SCOPE OF WORK:

A. WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL, AND ASSOCIATED SERVICES REQUIRED TO COMPLETE REQUIRED CONSTRUCTION AND BE OPERATIONAL.

B. ALL ELECTRICAL EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY TESTED, ADJUSTED, AND ALIGNED BY THE CONTRACTOR.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING, DRAINING OF TRENCHES, BACKFILLING, AND REMOVAL OF EXCESS DIRT.

D. THE CONTRACTOR SHALL PREPARE A COMPLETE SET OF AS-BUILT DRAWINGS, DOCUMENT ALL WIRING EQUIPMENT CONDITIONS, AND CHANGES WHILE COMPLETING THIS CONTRACT, THE AS-BUILT DRAWINGS SHALL BE SUBMITTED AT COMPLETION OF THE PROJECT.

PRODUCTS

GENERAL:

A. ALL MATERIALS AND EQUIPMENT SHALL BE UL LISTED, NEW, AND FREE FROM DEFECTS.

B. ALL ITEMS OF MATERIALS AND EQUIPMENT SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED.

C. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.

D. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING EQUAL TO OR GREATER THAN THE SHORT CIRCUIT CURRENT AVAILABLE, 10,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT.

MATERIALS AND EQUIPMENT:

A. CONDUIT:

1. RIGID METAL CONDUIT (RMC) SHALL BE HOT-DIPPED GALVANIZED INSIDE AND OUTSIDE INCLUDING ENDS AND THREADS AND ENAMELED OR LACQUERED INSIDE IN ADDITION TO GALVANIZING.

2. LIQUID TIGHT FLEXIBLE METAL CONDUIT (LFMC) SHALL BE UL LISTED.

3. CONDUIT CLAMPS, STRAPS AND SUPPORTS SHALL BE STEEL OR MALLEABLE IRON. ALL FITTINGS SHALL BE COMPRESSION AND CONCRETE TIGHT TYPE.

4. NONMETALLIC CONDUIT AND FITTINGS SHALL BE SCHEDULE 40 PVC UNLESS SCHEDULE 80 PVC IS SPECIFIED. INSTALL USING SOLVENT-CEMENT-TYPE JOINTS AS RECOMMENDED BY THE MANUFACTURER.

B. CONDUCTORS AND CABLE:

1. CONDUCTORS AND CABLE SHALL BE FLAME-RETARDANT, MOISTURE AND HEAT RESISTANT THERMOPLASTIC, SINGLE CONDUCTOR, COPPER, TYPE THHN/THWN-2, 600 VOLT, SIZE AS INDICATED, #12 AWG SHALL BE THE MINIMUM SIZE CONDUCTOR USED.

2. #10 AWG AND SMALLER CONDUCTOR SHALL BE SOLID OR STRANDED AND #8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED.

3. SOLDERLESS, COMPRESSION-TYPE CONNECTORS SHALL BE USED FOR TERMINATION OF ALL STRANDED CONDUCTORS.

4. STRAIN-RELIEF SUPPORTS GRIPS SHALL BE HUBBELL KELLEMS OR APPROVED EQUAL. CABLES SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC AND CABLE MANUFACTURER'S RECOMMENDATIONS.

5. ALL CONDUCTORS SHALL BE TAGGED AT BOTH ENDS OF THE CONDUCTOR, AT ALL PULL BOXES, J-BOXES, EQUIPMENT AND CABINETS AND SHALL BE IDENTIFIED WITH APPROVED PLASTIC TAGS (ACTION CRAFT, BRADY, OR APPROVED EQUAL).

C. DISCONNECT SWITCHES:

1. DISCONNECT SWITCHES SHALL BE HEAVY DUTY, DEAD-FRONT, QUICK-MAKE, QUICK-BREAK, EXTERNALLY OPERABLE, HANDLE LOCKABLE AND INTERLOCK WITH COVER IN CLOSED POSITION, RATING AS INDICATED, UL LABELED FURNISHED IN NEMA 3R ENCLOSURE, SQUARE-D OR ENGINEER APPROVED EQUAL.

D. SYSTEM GROUNDING

1. ALL GROUNDING COMPONENTS SHALL BE TINNED AND GROUNDING CONDUCTOR SHALL BE #2 AWG BARE, SOLID, TINNED, COPPER. ABOVE GRADE GROUNDING CONDUCTORS SHALL BE INSULATED WHERE NOTED.

2. GROUNDING BUSES SHALL BE BARE, TINNED ANNEALED COPPER BARS OF RECTANGULAR CROSS SECTION. STANDARD BUS BARS MGB, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THEY SHALL NOT BE FABRICATED OR MODIFIED IN THE FIELD. ALL GROUNDING BUSES SHALL BE IDENTIFIED WITH MINIMUM 3/4" LETTERS BY WAY OF STENCILING OR DESIGNATION PLATE.

3. CONNECTORS SHALL BE HIGH-CONDUCTIVITY, HEAVY DUTY, LISTED AND LABELED AS GROUNDING CONNECTORS FOR THE MATERIALS USED. USE TWO-HOLE COMPRESSION LUGS WITH HEAT SHRINK FOR MECHANICAL CONNECTIONS. INTERIOR CONNECTIONS USE TWO-HOLE COMPRESSION LUGS WITH INSPECTION WINDOW AND CLEAR HEAT SHRINK.

4. EXOTHERMIC WELDED CONNECTIONS SHALL BE PROVIDED IN KIT FORM AND SELECTED FOR THE SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS TO BE CONNECTED.

5. GROUND RODS SHALL BE COPPER-CLAD STEEL WITH HIGH-STRENGTH STEEL CORE AND ELECTROLYTIC-GRADE COPPER OUTER SHEATH, MOLTEN WELDED TO CORE, 5/8"x10'-0". ALL GROUNDING RODS SHALL BE INSTALLED WITH INSPECTION SLEEVES.

6. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS IN COMPLIANCE WITH THE AT&T SPECIFICATIONS AND NEC. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED TO ALL METALLIC JUNCTION BOXES, PULLBOXES, DISCONNECT SWITCHES, STARTERS, AND EQUIPMENT.

E. OTHER MATERIALS:

1. THE CONTRACTOR SHALL PROVIDE OTHER MATERIALS, THOUGH NOT SPECIFICALLY DESCRIBED, WHICH ARE REQUIRED FOR A COMPLETELY OPERATIONAL SYSTEM AND PROPER INSTALLATION OF THE WORK.

2. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC.

F. PANELS AND LOAD CENTERS:

1. ALL PANEL LABELS AND SCHEDULES SHALL BE TYPEWRITTEN.

EXECUTION:

GENERAL:

A. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

B. EQUIPMENT SHALL BE TIGHTLY COVERED AND PROTECTED AGAINST DIRT OR WATER, AND AGAINST CHEMICAL OR MECHANICAL INJURY DURING INSTALLATION AND CONSTRUCTION PERIODS.

LABOR AND WORKMANSHIP:

A. ALL LABOR FOR THE INSTALLATION OF MATERIALS AND EQUIPMENT FURNISHED FOR THE ELECTRICAL SYSTEM SHALL BE INSTALLED BY EXPERIENCED WIREMEN, IN A NEAT AND WORKMAN-LIKE MANNER.

B. ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED, ALIGNED AND TESTED BY THE CONTRACTOR AS REQUIRED TO PRODUCE THE INTENDED PERFORMANCE.

C. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT, REMOVE ALL LABELS AND ANY DEBRIS, CRATING OR CARTONS AND LEAVE THE INSTALLATION FINISHED AND READY FOR OPERATION.

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6521 MERIDIEN DRIVE RALEIGH, NC 27616
PHONE: 919-755-1012 FAX: 919-755-1031

SUBMITTALS

REV	DATE	DESCRIPTION	BY	CHK'D
0	11/29/2021	CONSTRUCTION	MTS	JRB

11/29/21

DENNIS D. ABEL, PE
FDH INFRASTRUCTURE SERVICES, LLC
COA 28282
STATE LICENSE NO. 62750

FDH JOB NUMBER:
PR-006900

SITE ID:
FLC034

SITE NAME:
OKEECHOBEE

FA LOCATION:
-

ADDRESS:
1117 NW 9TH ST
OKEECHOBEE, FL 34972

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
GN-3

ELECTRICAL NOTES (CONTINUED)

COORDINATION:

A. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL ITEMS WITH THE OWNER–FURNISHED EQUIPMENT DELIVERY SCHEDULE TO PREVENT UNNECESSARY DELAYS IN THE TOTAL WORK.

INSTALLATION:

A. CONDUIT:

1. ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT AS SPECIFIED. NO CONDUIT OR TUBING OF LESS THAN 3/4 INCH TRADE SIZE.
2. PROVIDE RIGID PVC SCHEDULE 80 CONDUITS FOR ALL RISERS, OR WHERE RIGID OTHERWISE NOTED.
3. INSTALL SCHEDULE 40 PVC CONDUIT WITH A MINIMUM COVER OF 24" UNDER ROADWAYS, PARKING LOTS, STREETS, AND ALLEYS. CONDUIT SHALL HAVE A MINIMUM COVER OF 18" IN ALL OTHER NON–TRAFFIC APPLICATIONS (REFER TO 2017 NEC, TABLE 300.5).
4. USE GALVANIZED FLEXIBLE STEEL CONDUIT WHERE DIRECT CONNECTION TO EQUIPMENT WITH MOVEMENT, VIBRATION, OR FOR EASE OF MAINTENANCE. USE LIQUID TIGHT, FLEXIBLE METAL CONDUIT FOR OUTDOOR APPLICATIONS. INSTALL GALVANIZED FLEXIBLE STEEL CONDUIT AT ALL POINTS OF CONNECTION TO EQUIPMENT MOUNTED ON SUPPORT TO ALLOW FOR EXPANSION AND CONTRACTION.
5. A RUN OF CONDUIT BETWEEN BOXES OR EQUIPMENT SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF THREE 90 DEGREE BENDS MAX. CONDUIT BEND SHALL BE MADE WITH THE UL LISTED BENDER OR FACTORY 90 DEGREE ELBOWS MAY BE USED.
6. FIELD FABRICATED CONDUITS SHALL BE CUT SQUARE WITH A CONDUIT CUTTING TOOL AND REAMED TO PROVIDE A SMOOTH INSIDE SURFACE.
7. PROVIDE INSULATED GROUNDING BUSHING FOR ALL CONDUITS.
8. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL CONDUITS DURING CONSTRUCTION. TEMPORARY OPENINGS IN THE CONDUIT SYSTEM SHALL BE PLUGGED OR CAPPED TO PREVENT ENTRANCE OF MOISTURE OR FOREIGN MATTER. CONTRACTOR SHALL REPLACE ANY CONDUITS CONTAINING FOREIGN MATERIALS THAT CANNOT BE REMOVED.
9. ALL CONDUITS SHALL BE SWABBED CLEAN BY PULLING AN APPROPRIATE SIZE MANDREL THROUGH THE CONDUIT BEFORE INSTALLATION OF CONDUCTORS OR CABLES. CONDUIT SHALL BE FREE OF DIRT AND DEBRIS.
10. INSTALL PULL STRINGS IN ALL CLEAN EMPTY CONDUITS. IDENTIFY PULL STRINGS AT EACH END.
11. INSTALL 2" HIGHLY VISIBLE AND DETECTABLE TAPE 12" ABOVE ALL UNDERGROUND CONDUITS AND CONDUCTORS.
12. CONDUITS SHALL BE INSTALLED IN SUCH A MANNER AS TO INSURE AGAINST COLLECTION OF TRAPPED CONDENSATION.
13. PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS TO ALLOW FOR RACEWAYS AND CABLES TO BE ROUTED THROUGH THE BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS AND/OR SLEEVES. PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE EFFECTIVELY SEALED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE WALL OR STRUCTURE. FIRE STOPS AT FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE, FIRE, AND FUMES. ALL MATERIAL SHALL BE UL APPROVED FOR THE PURPOSE.

B. CONDUCTORS AND CABLE:

1. SPLICES SHALL BE MADE ONLY AT OUTLETS, JUNCTION BOXES, OR ACCESSIBLE RACEWAY CONDUITS APPROVED FOR THIS PURPOSE.
2. PULLING LUBRICANTS SHALL BE UL APPROVED. CONTRACTOR SHALL USE NYLON OR HEMP ROPE FOR PULLING CONDUCTOR OR CABLES INTO THE CONDUIT.
3. CABLES SHALL BE NEATLY TRAINED, WITHOUT INTERLACING, AND BE OF SUFFICIENT LENGTH IN ALL BOXES AND EQUIPMENT TO PERMIT MAKING A NEAT ARRANGEMENT. CABLES SHALL BE SECURED IN A MANNER TO AVOID TENSION ON CONDUCTORS OR TERMINALS. CONDUCTORS SHALL BE PROTECTED FROM MECHANICAL INJURY AND MOISTURE. SHARP BENDS OVER CONDUIT BUSHINGS IS PROHIBITED. DAMAGED CABLES SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

C. DISCONNECT SWITCHES:

1. INSTALL DISCONNECT SWITCHES LEVEL AND PLUMB. CONNECT TO WIRING SYSTEM AND GROUNDING SYSTEM AS INDICATED.

D. GROUNDING:

1. ALL METALLIC PARTS OF ELECTRICAL EQUIPMENT WHICH DO NOT CARRY CURRENT SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING MANUFACTURER, AT&T GROUNDING AND BONDING STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T GROUNDING CHECKLIST, LATEST VERSION, AND THE NATIONAL ELECTRICAL CODE.
2. PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEM INDICATED WITH ASSEMBLY OF MATERIALS, INCLUDING GROUNDING ELECTRODES, BONDING JUMPERS AND ADDITIONAL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
3. ALL GROUNDING CONDUCTORS SHALL PROVIDE A STRAIGHT DOWNWARD PATH TO GROUND WITH GRADUAL BEND AS REQUIRED. GROUNDING CONDUCTORS SHALL NOT BE LOOPED OR SHARPLY BENT. ROUTE GROUNDING CONNECTIONS AND CONDUCTORS TO GROUND IN THE SHORTEST AND STRAIGHTEST PATHS POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE RISES.
4. BUILDINGS AND/OR NEW TOWERS GREATER THAN 75 FEET IN HEIGHT AND WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWER, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 AWG COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). SEE STANDARD 6.3.2.2.
5. TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES FOR CONNECTORS AND BOLTS. WHERE MANUFACTURER'S TORQUING REQUIREMENTS ARE NOT AVAILABLE, TIGHTEN CONNECTIONS TO COMPLY WITH TIGHTENING TORQUE VALUES SPECIFIED IN UL TO ASSURE PERMANENT AND EFFECTIVE GROUNDING.
6. CONTRACTOR SHALL VERIFY THE LOCATIONS OF GROUNDING TIE–IN–POINTS TO THE EXISTING GROUNDING SYSTEM. ALL UNDERGROUND GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
7. ALL GROUNDING CONNECTIONS SHALL BE INSPECTED FOR TIGHTNESS. EXOTHERMIC WELDED CONNECTIONS SHALL BE APPROVED BY THE INSPECTOR HAVING JURISDICTION BEFORE BEING PERMANENTLY CONCEALED.
8. APPLY CORROSION–RESISTANT FINISH TO FIELD CONNECTIONS AND PLACES WHERE FACTORY APPLIED PROTECTIVE COATINGS HAVE BEEN DESTROYED. USE KOPR–SHIELD ANTI–OXIDATION COMPOUND ON ALL COMPRESSION GROUNDING CONNECTIONS.
9. A SEPARATE, CONTINUOUS, INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUITS.
10. BOND ALL INSULATED GROUNDING BUSHINGS WITH A BARE #6 AWG GROUNDING CONDUCTOR TO A GROUND BUS.
11. DIRECT BURIED GROUNDING CONDUCTORS SHALL BE INSTALLED AT A NOMINAL DEPTH OF 30" MINIMUM BELOW GRADE, OR 6" BELOW THE FROST LINE, USE THE GREATER OF THE TWO DISTANCES.
12. ALL GROUNDING CONDUCTORS EMBEDDED IN OR PENETRATING CONCRETE SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT.
13. DRIVE GROUND RODS UNTIL TOPS ARE A MINIMUM DISTANCE OF 30" DEPTH OR 6" BELOW FROST LINE, USING THE GREATER OF THE TWO DISTANCES.
14. CONTRACTOR SHALL REPAIR, AND/OR REPLACE, EXISTING GROUNDING SYSTEM COMPONENTS DAMAGED DURING CONSTRUCTION AT THE CONTRACTORS EXPENSE.

ACCEPTANCE TESTING:

A. CERTIFIED PERSONNEL USING CERTIFIED EQUIPMENT SHALL PERFORM REQUIRED TESTS AND SUBMIT WRITTEN TEST REPORTS UPON COMPLETION.

B. WHEN MATERIAL AND/OR WORKMANSHIP IS FOUND NOT TO COMPLY WITH THE SPECIFIED REQUIREMENTS, THE NON–COMPLYING ITEMS SHALL BE REMOVED FROM THE PROJECT SITE AND REPLACED WITH ITEMS COMPLYING WITH THE SPECIFIED REQUIREMENTS PROMPTLY AFTER RECEIPT OF NOTICE FOR NON–COMPLIANCE.

C. TEST PROCEDURES:

1. ALL FEEDERS SHALL HAVE INSULATION TESTED AFTER INSTALLATION, BEFORE CONNECTION TO DEVICES. THE CONDUCTORS SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS. TESTING SHALL BE FOR ONE MINUTE USING 1000V DC. PROVIDE WRITTEN DOCUMENTATION FOR ALL TEST RESULTS.
2. PRIOR TO ENERGIZING CIRCUITRY, TEST WIRING DEVICES FOR ELECTRICAL CONTINUITY AND PROPER POLARITY CONNECTIONS.
3. MEASURE AND RECORD VOLTAGES BETWEEN PHASES AND BETWEEN PHASE CONDUCTORS AND NEUTRALS, SUBMIT A REPORT OF MAXIMUM AND MINIMUM VOLTAGES.
4. PERFORM GROUNDING TEST TO MEASURE GROUNDING RESISTANCE OF GROUNDING SYSTEM USING THE IEEE STANDARD 3–POINT "FALL–OF–POTENTIAL" METHOD. PROVIDE PLOTTED TEST VALUES AND LOCATION SKETCH. NOTIFY THE ENGINEER IMMEDIATELY IF MEASURED VALUE IS OVER 5 OHMS.

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SUBMITTALS

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DENNIS DANIEL ABEL LICENSE No 62750 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/29/21

DENNIS D. ABEL, PE
FDH INFRASTRUCTURE SERVICES, LLC
COA 28282
STATE LICENSE NO. 62750

FDH JOB NUMBER:
PR-006900

SITE ID:
FLC034

SITE NAME:
OKEECHOBEE

FA LOCATION:
-

ADDRESS:
1117 NW 9TH ST
OKEECHOBEE, FL 34972

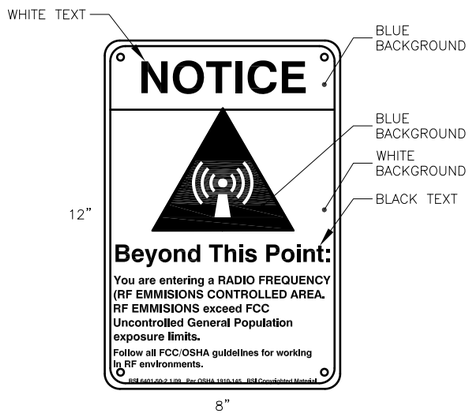
SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
GN-4

WHITE/GREEN BACKGROUND, WHITE/BLACK LETTERING
MOUNTING LOCATION: GATE & BASE OF TOWER
QUANTITY: 2

1 FCC REGISTRATION SIGN

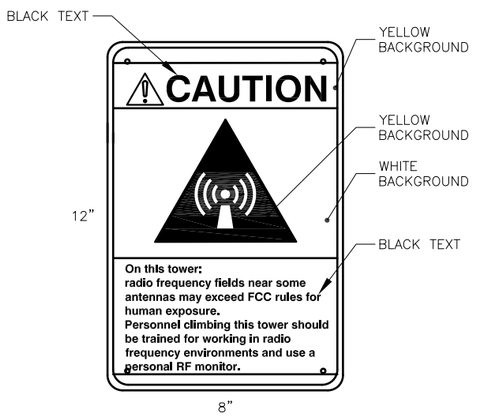
SCALE: N.T.S.



WHITE/BLUE BACKGROUND, BLACK/WHITE LETTERING
MOUNTING LOCATION: GATE & BASE OF TOWER
QUANTITY: 2

2 RF EXPOSURE NOTICE SIGN

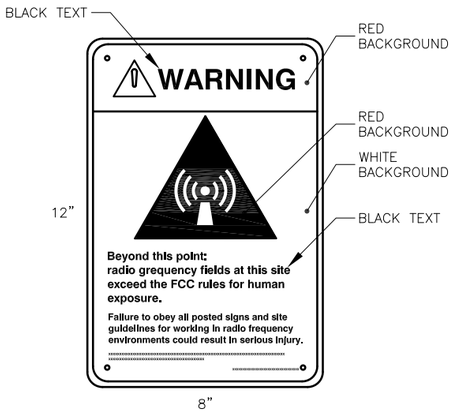
SCALE: N.T.S.



WHITE/YELLOW BACKGROUND, BLACK LETTERING
MOUNTING LOCATION: BASE OF TOWER
QUANTITY: 1

3 RF EXPOSURE CAUTION SIGN

SCALE: N.T.S.



WHITE/RED BACKGROUND, BLACK LETTERING
MOUNTING LOCATION: GATE & BASE OF TOWER
QUANTITY: 2

4 RF EXPOSURE WARNING SIGN

SCALE: N.T.S.

SIGNAGE NOTES:

1. SIGNS SHALL BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL AND PAINTED WITH LONG LASTING UV RESISTANT COATING.
2. SIGNS(EXCEPT WHERE NOTED OTHERWISE) SHALL BE MOUNTED TO THE TOWER, GATE AND FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE, HOG RINGS (FENCE) OR BRACKETS, WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION
3. ADDITIONAL E911 ADDRESS AND FCC REGISTRATION SIGNS SHALL BE MOUNTED AT EACH ACCESS ROAD GATE LEADING TO THE COMPOUND AS WELL AS ON THE COMPOUND GATE ITSELF.
4. SIGNS NEED NOT BE PLACED IF ACCURATE AND APPROPRIATE SIGNAGE ALREADY EXISTS.

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STATE LICENSE NO. 62750

FDH JOB NUMBER:
PR-006900

SITE ID:
FLC034

SITE NAME:
OKEECHOBEE

FA LOCATION:
-

ADDRESS:
1117 NW 9TH ST
OKEECHOBEE, FL 34972

SHEET TITLE:
SITE SIGNAGE

SHEET NUMBER:
GN-5

NOTES:

1. THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
2. NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
3. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION, THERE IS NO HANDICAP ACCESS REQUIRED.
4. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
5. UTILITIES TO BE CONFIRMED DURING SITE VISIT.
6. SITE PLAN AND PROPERTY LINES DEVELOPED FROM SURVEY COMPLETED BY SMW ENGINEERING GROUP, INC, DATED 9/28/2021. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7. PROPOSED SITE IS LOCATED IN EXISTING FLOOD ZONE X ACCORDING TO FEMA PANEL # 12093C0415C DATED JULY 16, 2015.
8. CONTRACTOR WILL NOT START CONSTRUCTION UNTIL AFTER THEY HAVE RECEIVED THE PRE-CON PACKAGE AND HAVE A PRE-CON WALK WITH THE PROJECT MANAGER.
9. CONTRACTOR TO HIRE PUBLIC (811) AND PRIVATE LOCATING SERVICE IN ORDER TO LOCATE AND PROTECT ALL SUB-SURFACE UTILITES. DO NOT SCAL OFF THESE PLANS FOR ANY BELOW GRADE UTILITIES.
10. CONTRACTOR SHALL VERIFY ALL EXISTING BURIED AND OVERHEAD UTILITES PIOR TO EXCAVATION. CONTRACTOR SHALL REPAIR ALL DAMAGED UTILITIES AT HIS OWN COST AND COORDINATE ANY REPAIRS WITH RESPECTIVE UTILITY COMPANY.
11. CONTRACTOR TO VERIFY ALL HEIGHTS AND AZIMUTHS IN FIELD PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY CARRIER AND ENGINEERING FIRM OF ANY DISCREPANCIES BEFORE PROCEEDING.
12. CONTRACTOR SHALL RESTORE AND REPAIR ANY DAMAGED AREAS CAUSED BY CONSTRUCTION.

PARCEL INFORMATION:

OWNER: CSX TRANSPORTATION

JURISTICTION: CITY OF OKEECHOBEE

ZONING: INDUSTRIAL

LAND USE: –

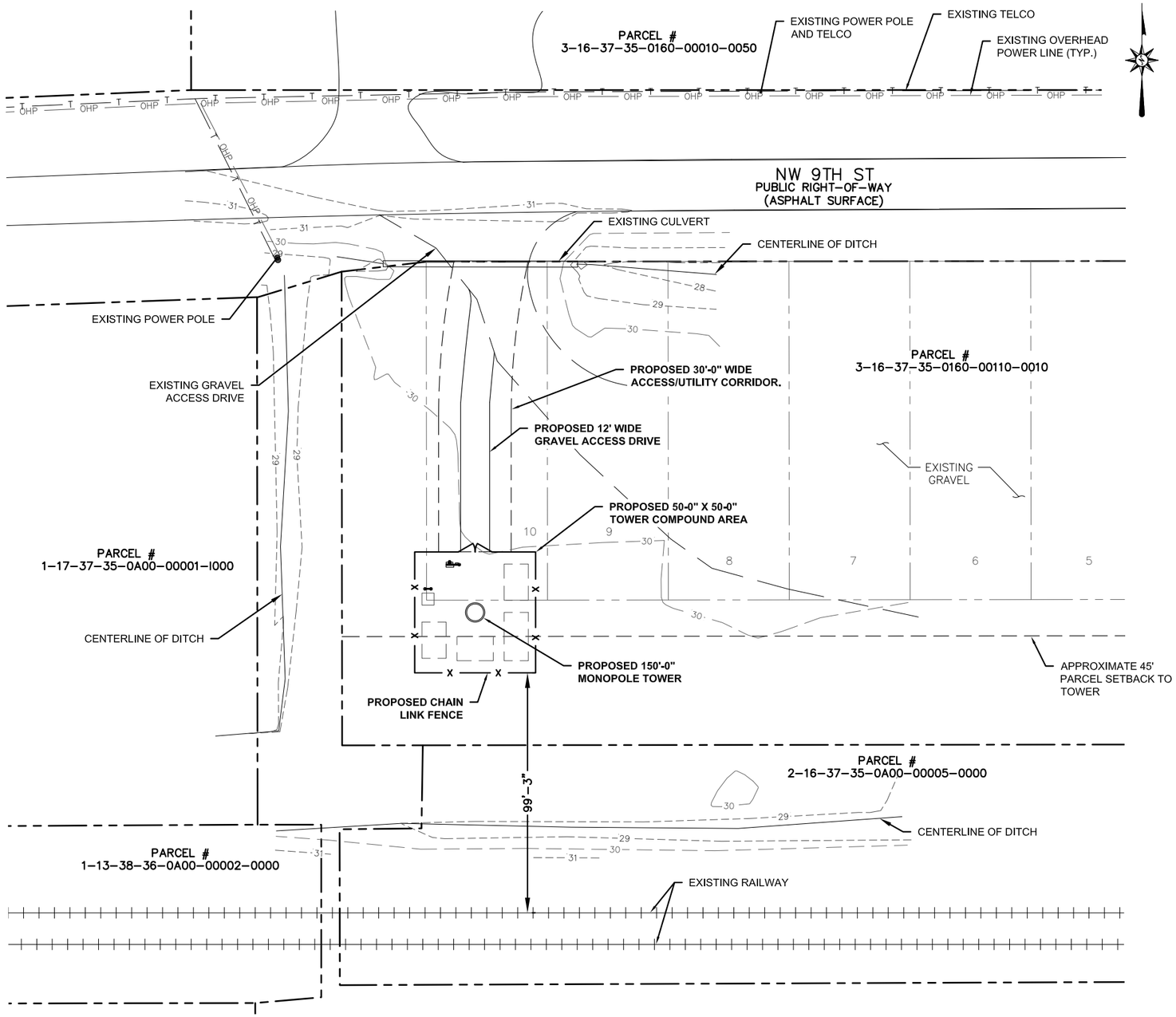
PARCEL NUMBER: 3-16-37-35-0160-00110-0010

LATITUDE: 27°15'07.7"N

LONGITUDE: 80°50'41.3"W

LEGEND:

- OHP — OVERHEAD POWER
- X — X — PROPOSED CHAIN-LINK FENCE
- X — X — EXISTING FENCE
- — — — — EXISTING EASEMENT
- — — — — PROPOSED EASEMENT
- ROW — RIGHT-OF-WAY
- — — — PROPOSED LEASE AREA
- EXISTING ROAD / TURNAROUND
- — — PROPERTY LINE



OVERALL SITE PLAN

11"x17" SCALE: 1" = 50'
24"x36" SCALE: 1" = 25'

50' 25' 0 50' 100'

1"=50'

CITYSWITCH

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SITE ID:
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SITE NAME:
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FA LOCATION:
-

ADDRESS:
1117 NW 9TH ST
OKEECHOBEE, FL 34972

SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
C-1

NOTES:

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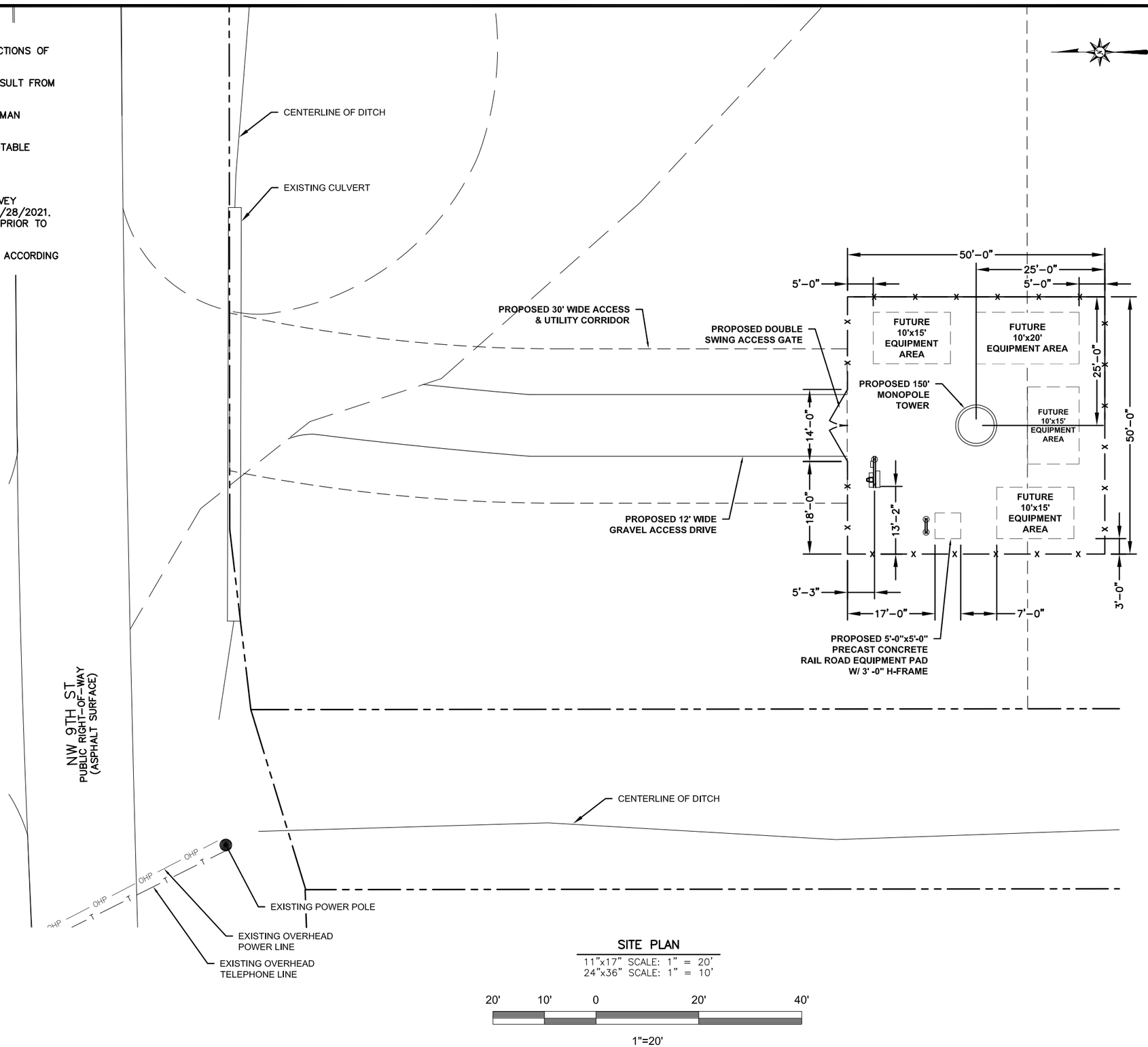
LATITUDE: 27°15'07.7"N

LONGITUDE: 80°50'41.3"W



SITE PLAN

11"x17" SCALE: 1" = 20'
24"x36" SCALE: 1" = 10'

20' 10' 0 20' 40'

1"=20'

LEGEND:

- OHP — OVERHEAD POWER
- X — X — PROPOSED CHAIN–LINK FENCE
- X — X — EXISTING FENCE
- — — — — EXISTING EASEMENT
- — — — — PROPOSED EASEMENT
- ROW — RIGHT–OF–WAY
- — — — — PROPOSED LEASE AREA
- EXISTING ROAD / TURNAROUND
- — — — PROPERTY LINE

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0	11/29/2021	CONSTRUCTION	MTS	JRB

DENNIS DANIEL ABEL LICENSE No 62750 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/29/21

DENNIS D. ABEL, PE
FDH INFRASTRUCTURE SERVICES, LLC
COA 28282
STATE LICENSE NO. 62750

FDH JOB NUMBER:
PR-006900

SITE ID:
FLC034

SITE NAME:
OKEECHOBEE

FA LOCATION:
-

ADDRESS:
1117 NW 9TH ST
OKEECHOBEE, FL 34972

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
C-2

EROSION CONTROL, DRAINAGE, AND GRADING NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS FOR EROSION AND SEDIMENT CONTROL FOR THE AGENCY(IES) HAVING JURISDICTION OVER CLEARING AND GRADING OPERATIONS. AS A MINIMUM, ALL WORK SHALL COMPLY WITH THE LATEST PROVISIONS OF THE INTERNATIONAL BUILDING CODE. UTILIZE BEST MANAGEMENT PRACTICES (BMP) PRESCRIBED BY IBD TO PREVENT EROSION OF ON-SITE SOILS AND TRANSPORT OF THESE SOILS TO DOWNSTREAM PROPERTIES OR WATER BODIES. SPECIFIC BMP'S TO BE EMPLOYED INCLUDE, BUT ARE NOT LIMITED TO, A TEMPORARY CONSTRUCTION ENTRANCE, SILT FENCE AT THE BASE OF FILL SLOPES AND AROUND STOCKPILE AREAS, CHECK DAMS IN THE FLOW LINE OF SWALES AND DITCHES, AND TEMPORARY AND PERMANENT SEEDING.

2. CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS AS NECESSARY DURING CONSTRUCTION ACTIVITIES TO ENSURE THE PROTECTION OF ADJACENT PROPERTIES AND WATERWAYS. EXCEPT AS MAY BE REQUIRED TO INSTALL THE MEASURES, NO GRADING SHALL BE PERFORMED UNTIL THE TEMPORARY CONSTRUCTION ENTRANCE, SILT FENCE AND OTHER APPROPRIATE MEASURES ARE IN PLACE.

3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
   A. SEVEN CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
   B. FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

4. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING DOWNSTREAM CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD AND CLEARING ANY DEBRIS AND SEDIMENT CAUSED BY CONSTRUCTION.

5. ALL EROSION CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ON-SITE INSPECTION.

6. ALL MATERIAL EXCAVATED TO PROVIDE FOR FINISHED GRADES APPROXIMATELY EQUAL TO EXISTING GRADE SHALL BE REMOVED FROM SITE AND DISPOSED OF AT PERMITTED DISPOSAL SITE.

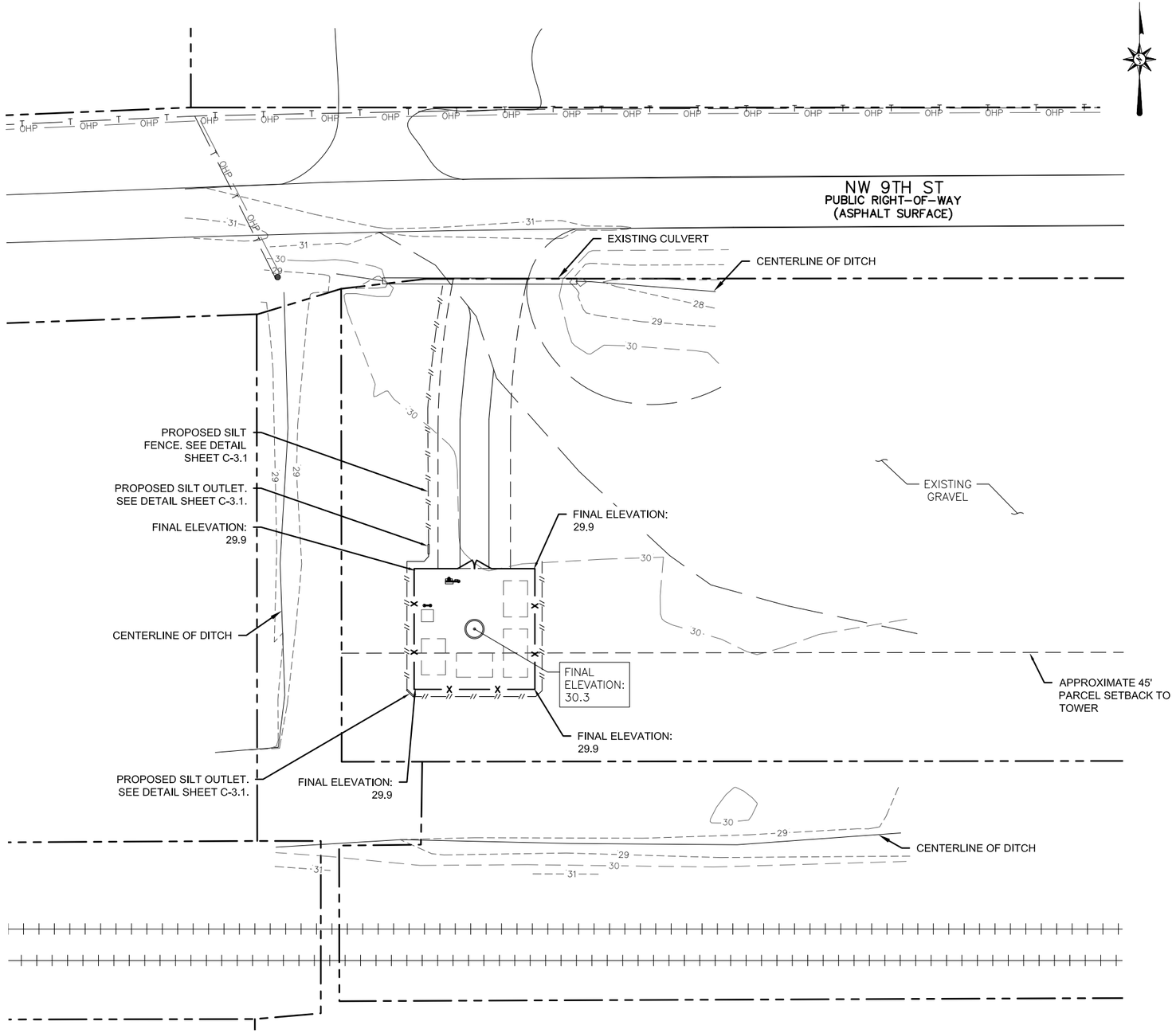
7. SILT FENCE SHALL INITIALLY BE PLACED ALONG THE NORTHERN AND EASTERN LIMITS OF PROJECT DISTURBANCE. THE NORTHERN LIMITS ARE ALSO WHERE PERMANENT CHAIN LINK FENCING IS PROPOSED TO BE INSTALLED. AT THE TIME OF INSTALLATION OF THE CHAIN LINK FENCING, THE SILT FENCE THAT IS IN THE PROPOSED LOCATION OF THE CHAIN LINK FENCE WILL BE REMOVED. AS SOON AS THE CHAIN LINK FENCE HAS BEEN INSTALLED, PROVIDE CONTINUOUS STAKED BIODEGRADABLE WATTLES ALONG THE INTERIOR FACE OF THE CHAIN LINK FENCE ALONG ITS NORTHERN AND EASTERN COMPOUND BOUNDARY.

EROSION CONTROL CONSTRUCTION SEQUENCE:

1. THE CONTRACTOR SHALL DESIGNATE AN ESC COORDINATOR FOR THE SITE AND COMMUNICATE TO THE OWNER AND ENGINEER;
2. INSTALL SILT FENCE WHERE SHOWN;
3. COMMENCE WITH GRADING ACTIVITIES;
4. INSTALL EROSION CONTROL MEASURES AFTER GRADING BEGINS AS REQUIRED;
5. SEED AND MULCH DENUDED AREA WITHIN 7 DAYS AFTER ANY PHASE OF GRADING, ALSO COVER ALL EXPOSED AREAS BEFORE MAJOR STORM EVENTS;
6. MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED;
7. REQUEST FINAL APPROVAL BY OWNER;
8. FLUSH ALL STORM PIPES AND REMOVE SEDIMENT FROM TEMPORARY BASIN(S).;
9. REMOVE SOIL EROSION CONTROL MEASURES AND STABILIZE THESE AREAS.

LEGEND:

OHP	OVERHEAD POWER
X X	PROPOSED CHAIN-LINK FENCE
X X	EXISTING FENCE
	EXISTING EASEMENT
	PROPOSED EASEMENT
ROW	RIGHT-OF-WAY
	PROPOSED LEASE AREA
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXISTING ROAD / TURNAROUND
	PROPOSED ROAD / TURNAROUND
	PROPERTY LINE



GRADING PLAN

11"x17" SCALE: 1" = 50'
24"x36" SCALE: 1" = 25'

50' 25' 0 50' 100'

1"=50'

CITYSWITCH
1900 CENTURY PLACE, SUITE 320
ATLANTA, GA 30345

CSX

FDH INFRASTRUCTURE SERVICES
ENGINEERING INNOVATION
FDH INFRASTRUCTURE SERVICES, LLC
6521 MERIDIEN DRIVE RALEIGH, NC 27616
PHONE: 919-755-1012 FAX: 919-755-1031

SUBMITTALS

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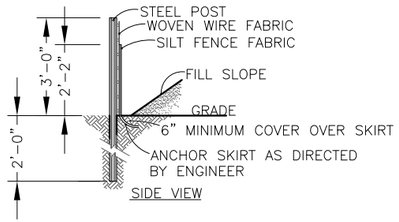
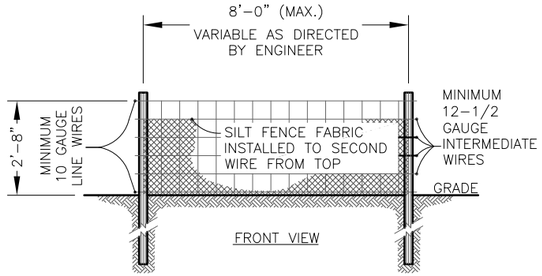
SHEET TITLE:
GRADING & EROSION CONTROL PLAN

SHEET NUMBER:
C-3

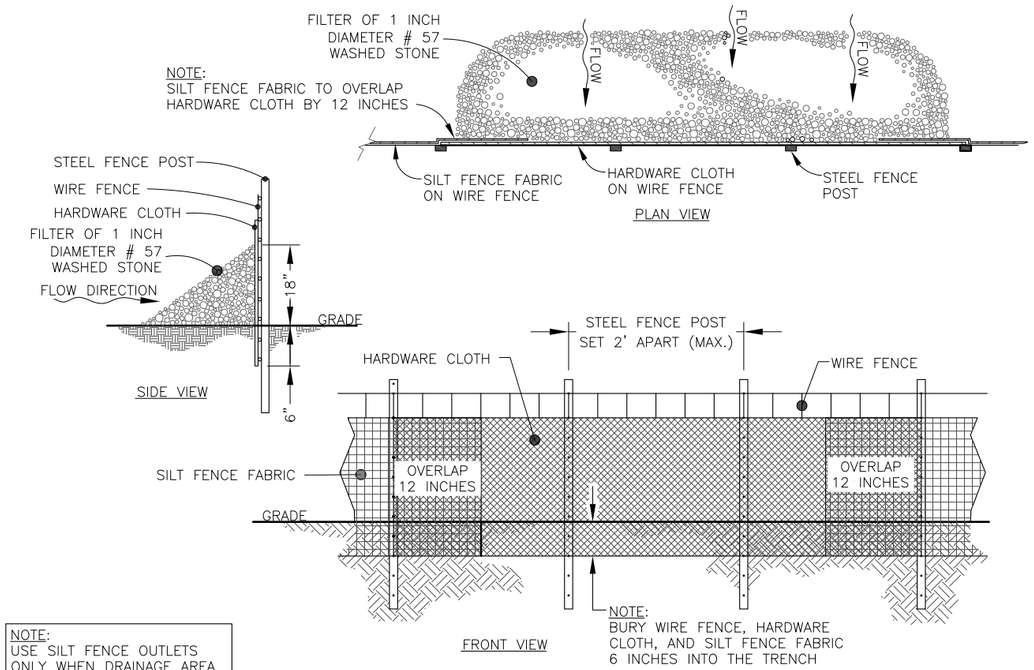




NOTE:
USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW.

TEMPORARY SILT FENCE

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.



NOTE:
USE SILT FENCE OUTLETS ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND THERE IS A LOW AREA. USE AS A REPAIR OF SILT FENCE FAILURES.

SILT FENCE OUTLET

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

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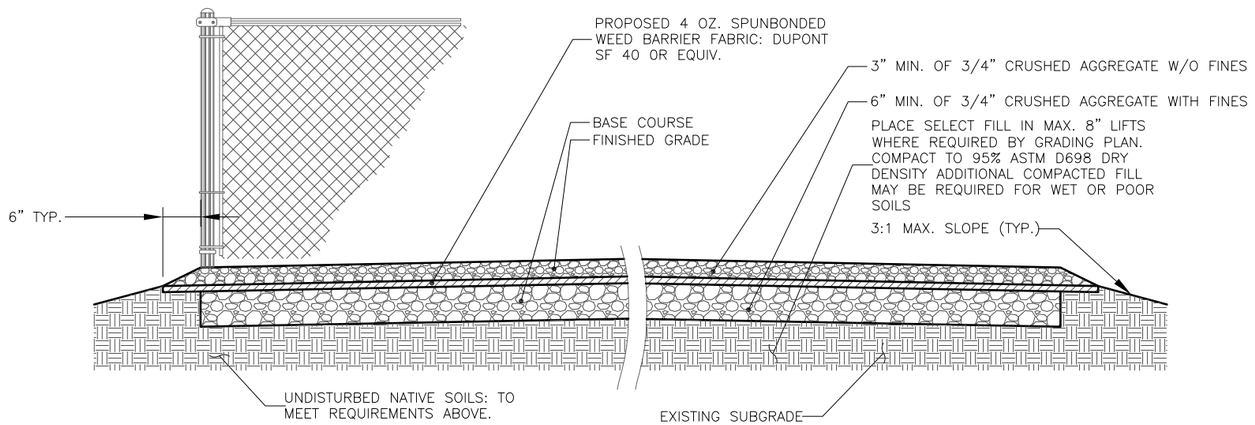
OKEECHOBEE, FL 34972

SHEET TITLE:
SILT FENCE DETAILS

SHEET NUMBER:
C-3.1

NOTES:

1. REMOVE ALL TOPSOIL, ORGANIC MATERIAL, AND WET OR POOR SOILS FROM PROPOSED COMPOUND AREA. CONTRACTOR TO REVIEW SITE CONDITIONS AND CONSULT GEOTECHNICAL REPORT FOR ANTICIPATED DEPTH OF SOILS THAT WILL REQUIRE REMOVAL IF POOR SOILS ARE ENCOUNTERED AT A DEPTH OF MORE THAN 12", CONTACT CONSTRUCTION MANAGER FOR GUIDANCE.
2. SUBGRADE TO BE COMPACTED TO 95% ASTM D698 DRY DENSITY AND VERIFIED BY PROOF-ROLL OR GEOTECHNICAL RECOMMENDATIONS.
3. IF THE GEOTECHNICAL REPORT PERMITS, USE ONSITE SOILS FOR SELECT FILL PROVIDED IT IS AVAILABLE AND FREE OF DELETERIOUS MATERIALS AND ORGANICS.



COMPOUND CROSS SECTION

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

NOTES:

1. REMOVE ALL TOPSOIL, ORGANIC MATERIAL, AND WET OR POOR SOILS ALONG ACCESS DRIVE. CONTRACTOR TO REVIEW SITE CONDITIONS AND CONSULT GEOTECHNICAL REPORT FOR ANTICIPATED DEPTH OF SOILS THAT WILL REQUIRE REMOVAL. IF POOR SOILS ARE ENCOUNTERED AT A DEPTH OF MORE THAN 12", CONTACT CONSTRUCTION MANAGER FOR GUIDANCE.
2. SUBGRADE TO BE COMPACTED TO 95% MODIFIED PROCTOR AND VERIFIED BY PROOF-ROLL OR GEOTECHNICAL RECOMMENDATIONS.
3. CONSULT GRADING PLAN OR SITE PLAN FOR FINAL SITE GRADES.

RESTORATION:

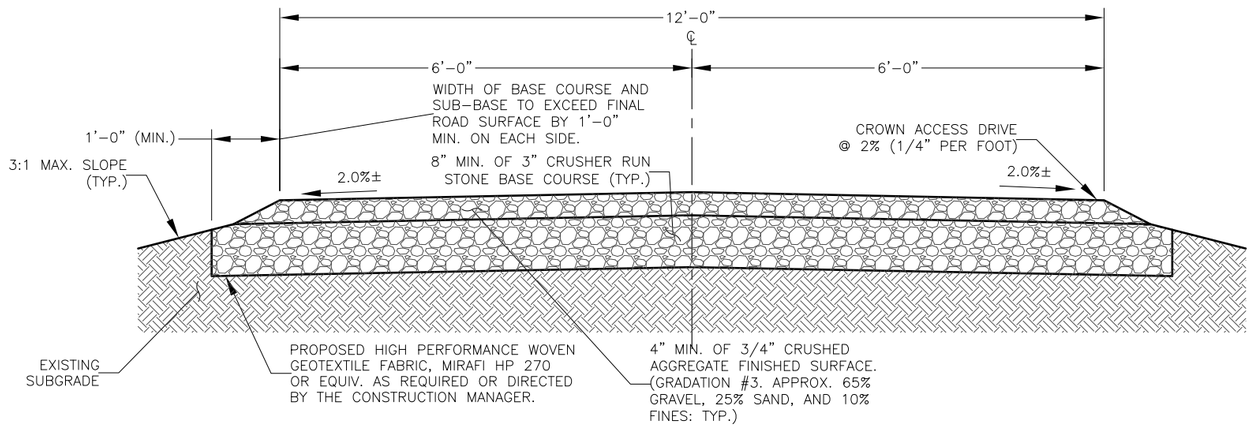
THE CONTRACTOR SHALL BE RESPONSIBLE FOR GRAVEL ACCESS DRIVE REPAIR AND RESTORATION FOLLOWING CONSTRUCTION COMPLETION. ANY DISTURBED OR DAMAGED AREAS SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION UPON COMPLETION OF WORK.

GRAVEL DRIVE REQUIREMENTS:

THICKNESS OF GRAVEL DRIVE BASE COURSE TO BE DETERMINED BASED ON THE EXISTING SOIL BEARING CAPACITY (PER UFC DESIGN RECOMMENDATIONS):

IF POOR OR WET SOILS ARE PRESENT BELOW BASE COURSE, CONTRACTOR TO INSTALL 6" MIN. WELL-GRADED GRAVEL/SAND SUB-BASE TO FACILITATE ADEQUATE DRAINAGE AND STABILITY.

FOR ACCESS DRIVE SLOPES GREATER THAN 10%, CONTRACTOR TO USE MIRAFI HP 270 OR EQUIVALENT GEOTEXTILE FABRIC.



GRAVEL DRIVE CROSS SECTION

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

BEARING CAPACITY	REQ'D AGGREGATE THICKNESS
1000 PSF	*16" MIN.
1500 PSF	12" MIN.
2000 PSF	8" MIN. (SEE DETAIL)

*A HIGH PERFORMANCE, WOVEN GEOTEXTILE FABRIC MAY BE USED TO REPLACE 6" OF AGGREGATE (MIRAFI HP 270 OR EQUIVALENT)

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FA LOCATION:
-

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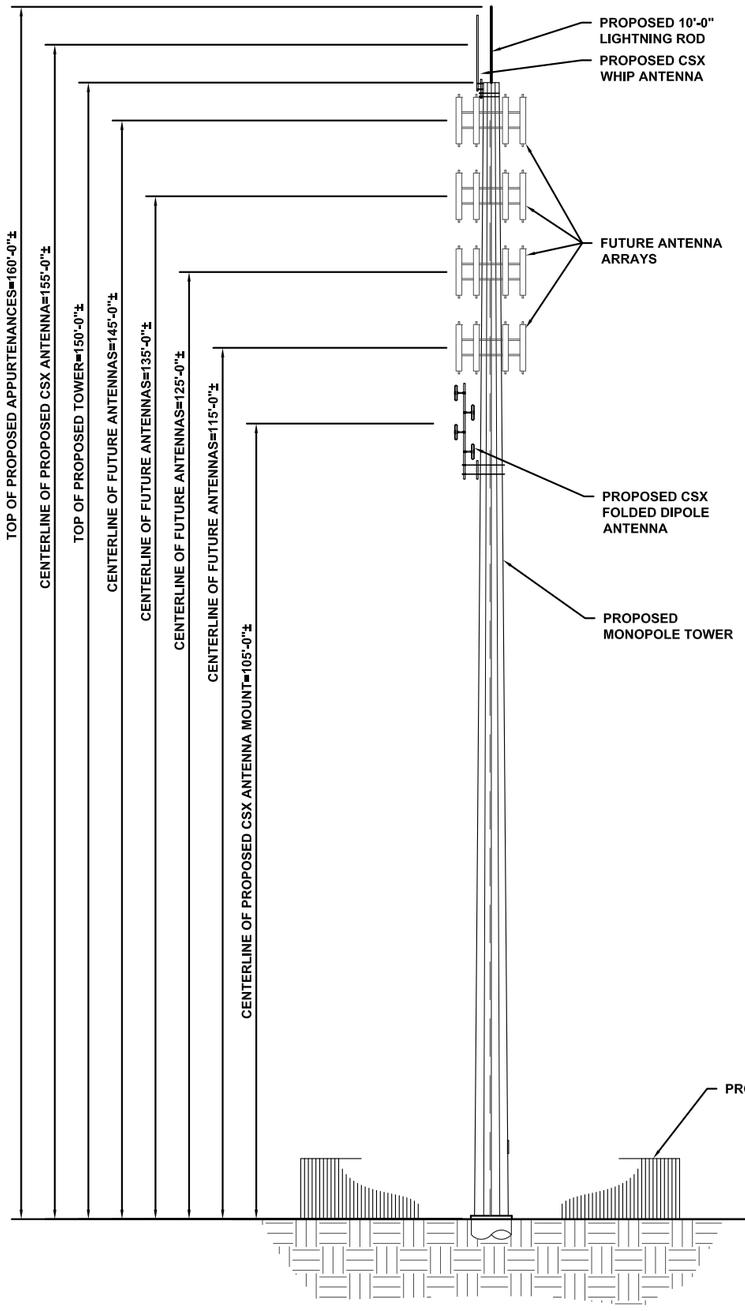
OKEECHOBEE, FL 34972

SHEET TITLE:
GRADING DETAILS

SHEET NUMBER:
C-3.2

NOTE:
THE SCOPE OF WORK DOES NOT INCLUDE A STRUCTURAL EVALUATION OF THIS TOWER OR STRUCTURE. NEW ANTENNAS AND EQUIPMENT SHOWN ON THIS PLAN HAVE NOT BEEN EVALUATED TO VERIFY THE TOWER OR STRUCTURE HAS THE CAPACITY TO ADEQUATELY SUPPORT THESE ANTENNAS. PRIOR TO ANY ANTENNA OR EQUIPMENT INSTALLATION, A STRUCTURAL EVALUATION OF THE TOWER OR STRUCTURE, INCLUDING ALL ANTENNA MOUNTING SYSTEMS & HARDWARE SHALL BE PERFORMED.



TOWER ELEVATION

11"x17" SCALE: 1" = 20'
24"x36" SCALE: 1" = 10'

20' 10' 0 20' 40'

1"=20'

CITYSWITCH
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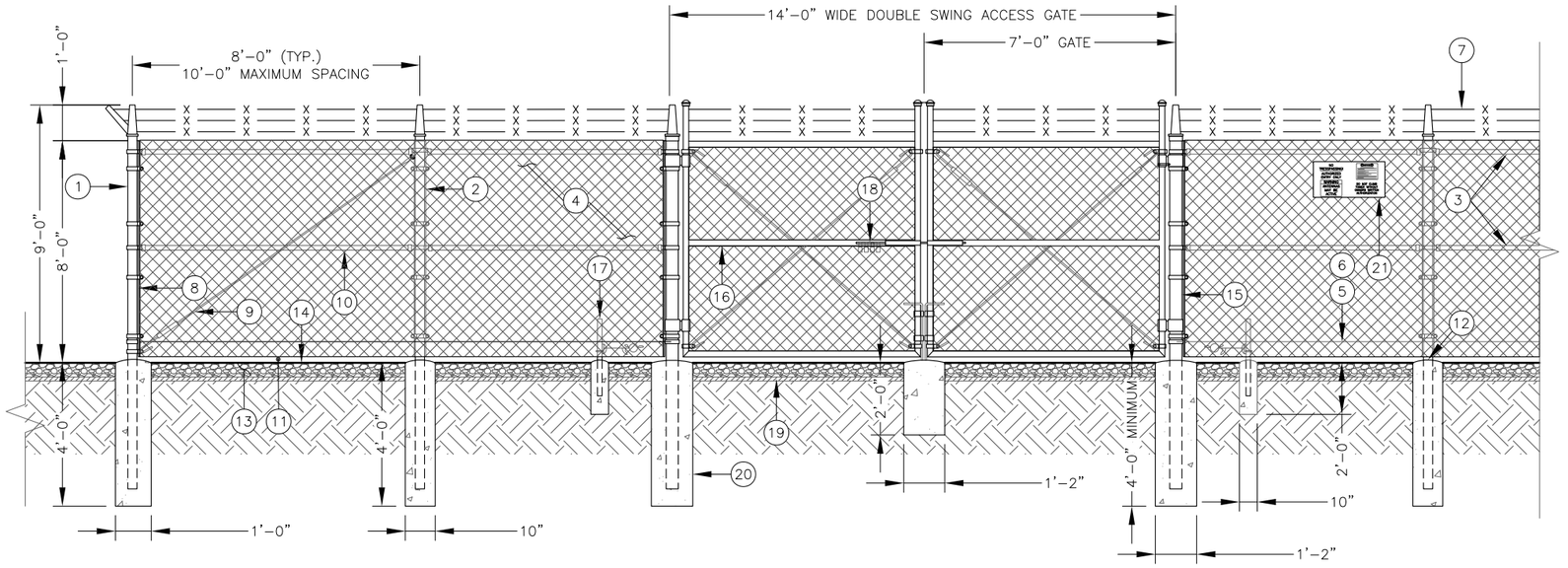
SHEET TITLE:
TOWER ELEVATION

SHEET NUMBER:
C-4

CALLOUTS:

1. 3" O.D. GALVANIZED STEEL SCHEDULE 40 CORNER POSTS (PER ASTM–F1083).
2. 2–1/2" NOMINAL GALVANIZED STEEL, SCHEDULE 40 INTERMEDIARY LINE POSTS (PER ASTM–F1083). LINE POSTS SHALL BE EQUALLY SPACED AT MAXIMUM 10' O.C.
3. 1–5/8" O.D. ROUND TOP RAIL & BRACE PIPE RAIL (PER ASTM–F1083).
4. 9 GAUGE FABRIC CORE WIRE WITH 2" MESH (TO CONFORM TO ASTM–A392).
5. 9 GAUGE ALUMINUM TIE WIRE. PROVIDE HOG RING FABRIC TIES SPACED 12" O.C. FOR POSTS AND GATES AND 24" O.C. FOR RAILS AND WIRE.
6. 9 GAUGE ALUMINUM TENSION WIRE.
7. 3 STRANDS 14 GAUGE BARBED WIRE WITH 4 POINT BARBS. SPACE BARBS APPROXIMATELY 5" O.C.
8. 3/16"x3/4" STRETCHER BAR; TO EXTEND FULL HEIGHT OF FENCE.
9. 3/8" DIAGONAL ROD WITH GALVANIZED STEEL TURNBUCKLE OR DIAGONAL THREADED ROD.
10. 1–5/8" DIAMETER CORNER POST BRACE.
11. MAINTAIN A 1" MAXIMUM CLEARANCE FROM FINISHED GRADE.
12. PROVIDE CROWNED/PITCHED FINISH FOR FENCE POST PIER FOUNDATIONS; TO EXTEND 1" ABOVE GRADE.
13. 6" CRUSHED STONE (TYP.).
14. FINISHED GRADE SHALL BE UNIFORM AND LEVEL.
15. 4" O.D. GALVANIZED STEEL SCHEDULE 40 GATE POSTS (PER ASTM–F1083).
16. 1–1/2" NOMINAL PIPE FOR GATE FRAME BRACE RAIL (PER ASTM F–1083).
17. DUCK BILL OPEN GATE HOLDER. CONTRACTOR TO VERIFY EXACT LOCATION PRIOR TO INSTALLATION.
18. MULTI–TENTANT LOCKING DEVICE.
19. PROPOSED GEOTEXTILE FABRIC.
20. CONCRETE PIER FOUNDATION; TO ACHIEVE A MINIMUM STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE DEPTH TO BE A MINIMUM OF 6" BELOW FROST LINE (48" MINIMUM, TYP.).
21. 12"x24" NO TRESPASSING SIGN.

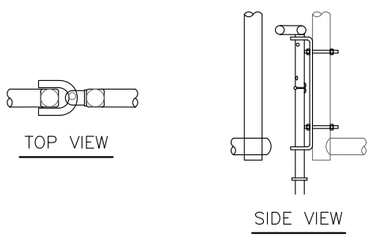


FENCING DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

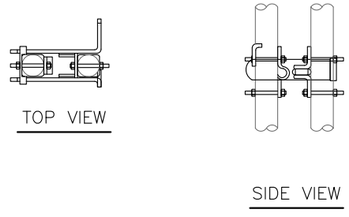
NOTES:

1. ALL FENCING TO BE INSTALLED PER ASTM F–567. ALL SWING GATES TO BE INSTALLED PER ASTM F–900.
2. BARBED WIRE PERMIT REQUIRED SHALL BE COMPLETED IF LOCAL ORDINANCE REQUIRES.
3. POST & GATE PIPE SIZES ARE INDUSTRY STANDARDS. ALL PIPE TO BE GALVANIZED (HOT DIP, ASTM A120 GRADE "A" STEEL). ALL GATE FRAMES SHALL BE WELDED. ALL WELDINGS SHALL BE COATED WITH (3) COATS OF GOLD GALV. (OR EQUAL). ALL OPEN POSTS SHALL HAVE END–CAPS.
4. ALL SIGNS MUST BE MOUNTED ON INSIDE OF FENCE FABRIC USING GALVANIZED HOG–RING WIRE.
5. MUSHROOM ANCHOR AND PLUNGER REQUIRED FOR GATE. GENERAL CONTRACTOR RESPONSIBLE FOR GATE LOCK.



DROP ROD ASSEMBLY DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.



LATCH ASSEMBLY DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

MULTILOCK INSTALLATION:

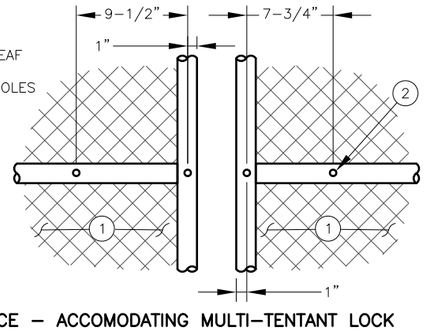
1. DRILL 3/8" HOLES IN THE GATE LEAF USING THE GATE DIMENSIONS PROVIDED.
2. SLIDE THE CARRIAGE BOLTS IN THE SLOTS ON THE BACK OF PART "B" AND PUSH THE BOLTS THROUGH THE HOLES DRILLED IN THE GATE FIGURE. PUT THE NUT AND THE LOCKNUT ON AND TIGHTEN AND CUT THE EXCESS BOLT OFF. DO THE SAME WITH PART "A".
3. ADD THE NUMBER OF SLEEVES NEEDED FOR THE NUMBER OF LOCKS AND SLIDE THE LOCKING BAR INTO PLACE THROUGH BOTH PART "A" AND PART "B". NOW INSTALL THE LOCKS.
4. IF THE GATE HAS NO CENTER BAR IN THE GATE LEAF YOU MAY NEED TO MOUNT THE STYMIELOCK VERTICALLY USING THE SAME DIMENSIONS GIVEN ON THE GATE FACE.
5. VERTICAL APPLICATION MAY ALSO BE USED ON SLIDING GATES WITH MULTIPLE LOCKS.

GATE LOCK ASSEMBLY:

1. "STYMIELOCK" MULTILOCKING DEVICE OR APPROVED EQUAL.

CALLOUTS:

1. GATE LEAF
2. 3/8" HOLES (TYP.)



GATE FACE – ACCOMODATING MULTI–TENTANT LOCK

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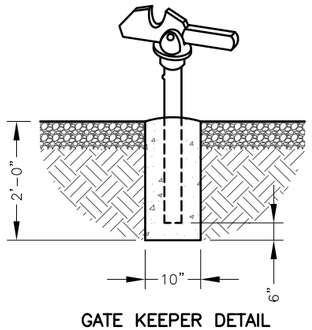
24"x36" SCALE: N.T.S.



GATE KEEPER DETAIL

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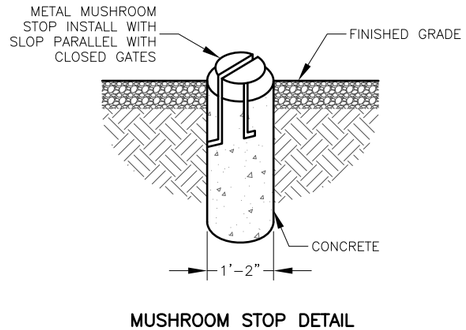
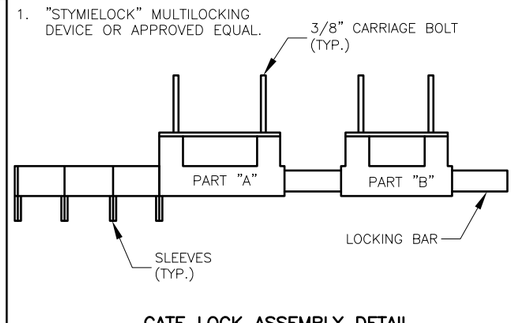
24"x36" SCALE: N.T.S.



MUSHROOM STOP DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.



GATE LOCK ASSEMBLY DETAIL

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FENCE DETAILS

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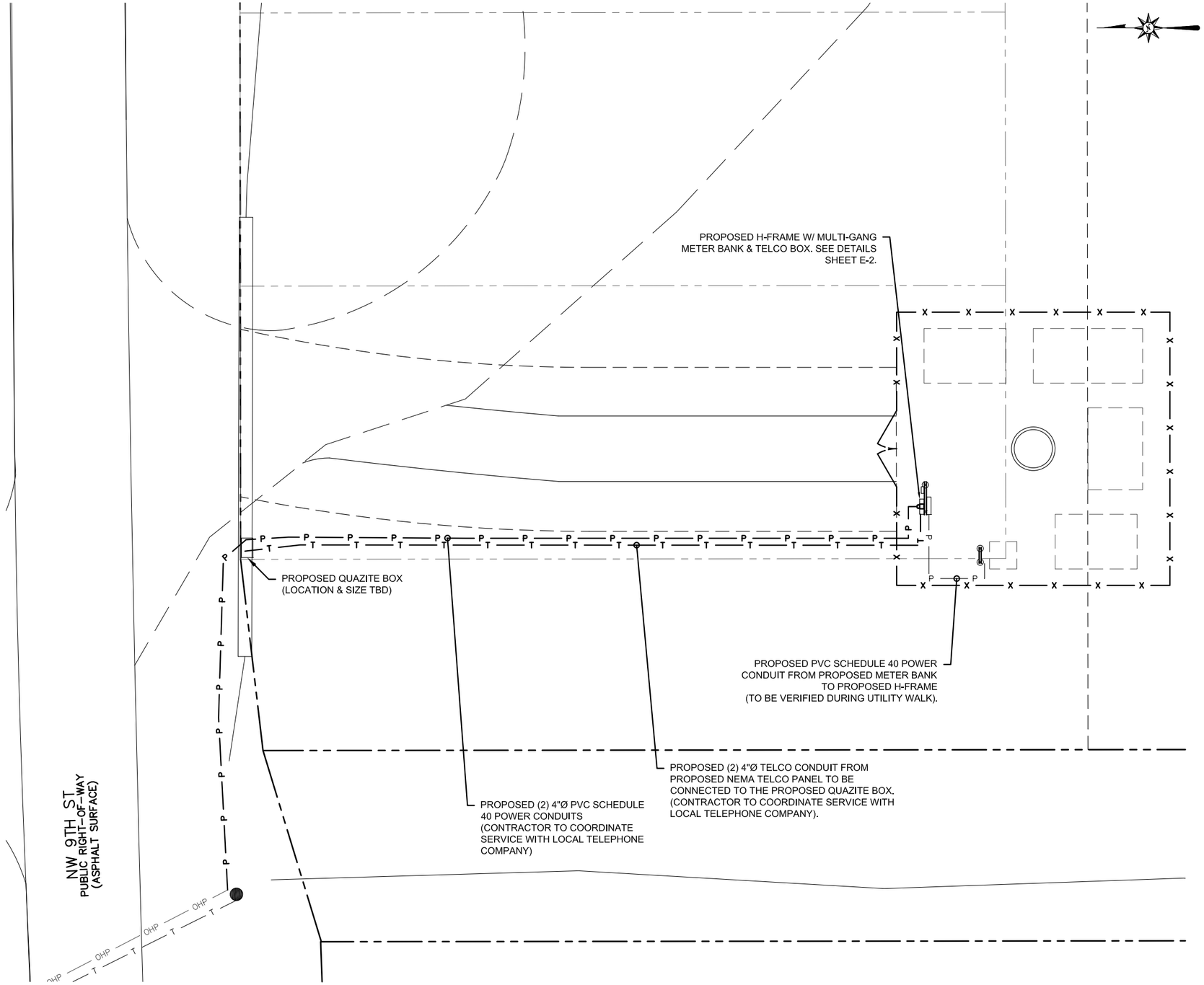
C-5

NOTE:
CONTRACTOR TO INSTALL NUMBERED MULE–TAPE IN ALL CONDUITS.



SITE PLAN
11"x17" SCALE: 1" = 20'
24"x36" SCALE: 1" = 10'

20' 10' 0 20' 40'

1"=20'

LEGEND:

- OHP — OVERHEAD POWER
- X — X — PROPOSED CHAIN–LINK FENCE
- X — X — EXISTING FENCE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- ROW — RIGHT–OF–WAY
- PROPOSED LEASE AREA
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED GUY WIRE
- EXISTING ROAD / TURNAROUND
- PROPOSED ROAD / TURNAROUND
- PROPERTY LINE
- //— //— PROPOSED SILT FENCE
- T — T — PROPOSED TELCO CONDUIT
- P — P — PROPOSED POWER CONDUIT

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1900 CENTURY PLACE, SUITE 320
ATLANTA, GA 30345

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FDH INFRASTRUCTURE SERVICES
ENGINEERING INNOVATION
FDH INFRASTRUCTURE SERVICES, LLC
6521 MERIDIEN DRIVE RALEIGH, NC 27616
PHONE: 919-755-1012 FAX: 919-755-1031

SUBMITTALS

REV	DATE	DESCRIPTION	BY	CHK'D
0	11/29/2021	CONSTRUCTION	MTS	JRB

DENNIS DANIEL ABEL LICENSE No 62750 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/29/21

DENNIS D. ABEL, PE
FDH INFRASTRUCTURE SERVICES, LLC
COA 28282
STATE LICENSE NO. 62750

FDH JOB NUMBER:
PR-006900

SITE ID:
FLC034

SITE NAME:
OKEECHOBEE

FA LOCATION:
-

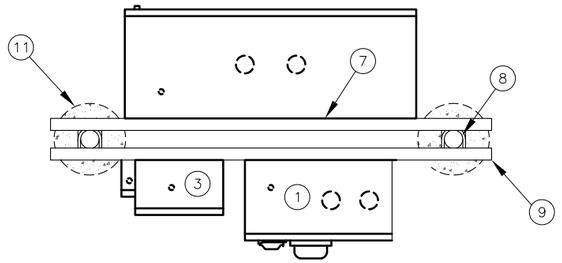
ADDRESS:
1117 NW 9TH ST
OKEECHOBEE, FL 34972

SHEET TITLE:
COMPOUND ELECTRICAL PLAN

SHEET NUMBER:
E-1

CALLOUTS:

1. 600A, 120/240V, 1 PHASE, 3 WIRE, 4 POSITION METERING CENTER (200A MAX CIRCUIT BREAKER) (SQUARE D METER MPR64200 OR EQUIVALENT)
2. 200A TENANT SERVICE DISCONNECT (SQUARE D CATALOG #QOM2200MVH OR EQUIVALENT)
3. 200A, 120/240V, 1 PHASE, 3 WIRE, 12 POSITION LOAD CENTER (SQUARE D QO LOAD CENTER #QO112L200GRB, OR APPROVED EQUIVALENT)
4. 120/240V, 1–GANG COMMERCIAL GRADE OUTDOOR ELECTRICAL BOX W/ 20A COMMERCIAL GRADE DUPLEX RECEPTACLE
5. 80KA, 120/240V, 1 PHASE, 3 WIRE TRANSIENT VOLTAGE SURGE SUPPRESSER (TESCO CATALOG #302065 OR APPROVED EQUIVALENT)
6. SINGLE DOOR TELCO ENCLOSURE (4'–0"x4'–0"x18") (HOFFMAN CATALOG #CSD483612 OR APPROVED EQUIVALENT)
7. 3/4" PLYWOOD BACKBOARD
8. 3" NOMINAL SCHEDULE 40, GALVANIZED STEEL PIPE WITH PIPE CAP
9. HORIZONTAL SUPPORT MEMBER (UNISTRUT P1000 OR APPROVED EQUIVALENT)
10. CONTRACTOR TO MAINTAIN 3'–0" MINIMUM CLEARANCE FROM METERING CENTER TO NEAREST OBSTRUCTION
11. CONCRETE PIER FOUNDATION TO ACHIEVE A MINIMUM STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE DEPTH TO BE A MINIMUM OF 6" BELOW FROST LINE (48" MINIMUM, TYP.) – SEE PIER FOUNDATION DETAIL ON SHEET C–7
12. #2 SOLID, TINNED, BARE COPPER LEADS TO COMPOUND GROUND RING
13. EXISTING SUB–GRADE

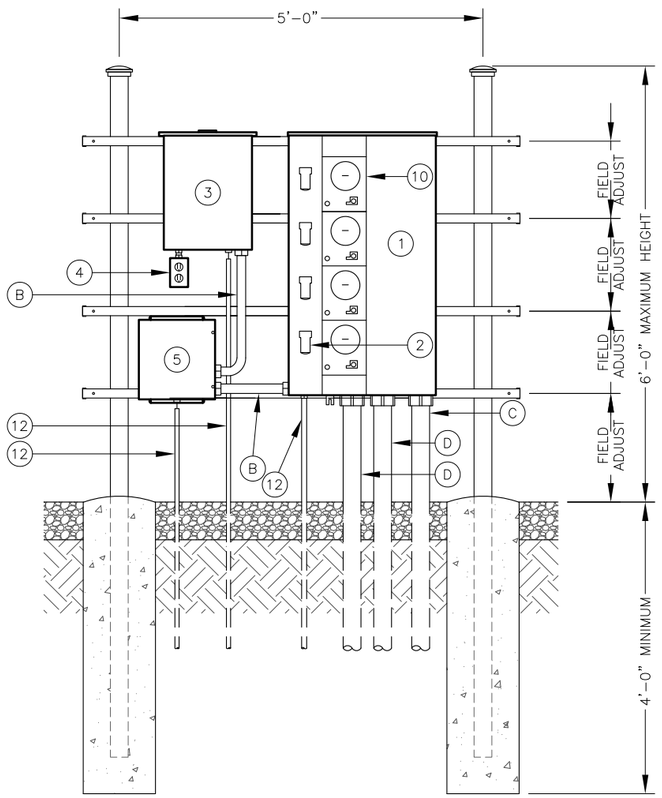


PLAN VIEW

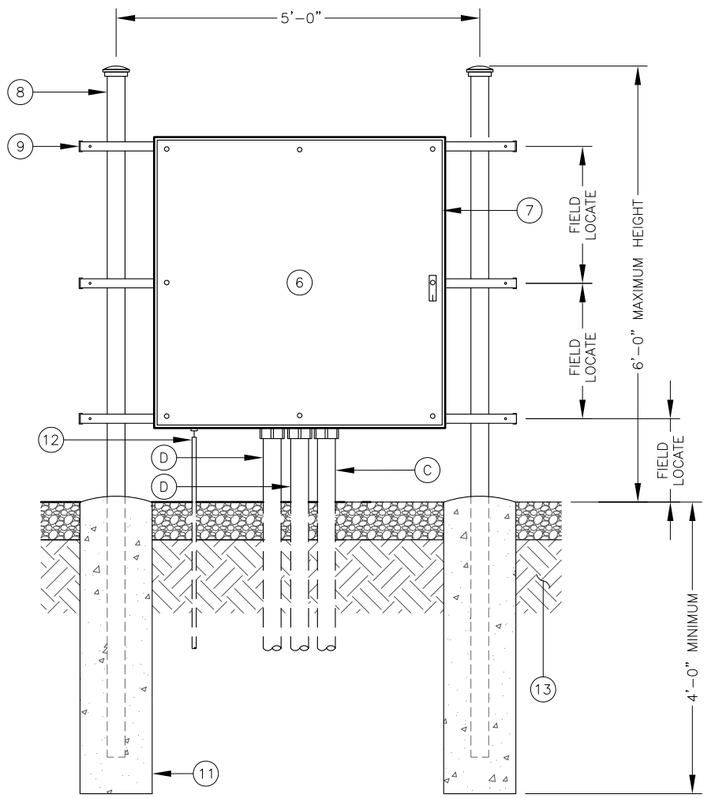
CONDUIT CHART		
CALLOUT	SIZE	TYPE
A	1"	PVC SCHEDULE 40
B	2"	PVC SCHEDULE 40
C	3"	PVC SCHEDULE 40
D	4"	PVC SCHEDULE 40

NOTE:

1. 2" WEATHER HEADS PLACED ON EACH END OF THE CONDUIT RUN.



FRONT VIEW



REAR VIEW

NOTE:
CONTRACTOR TO INSTALL NUMBERED MULE–TAPE IN ALL CONDUITS.

MULTI–CARRIER UTILITY RACK DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

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FA LOCATION:
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ADDRESS:
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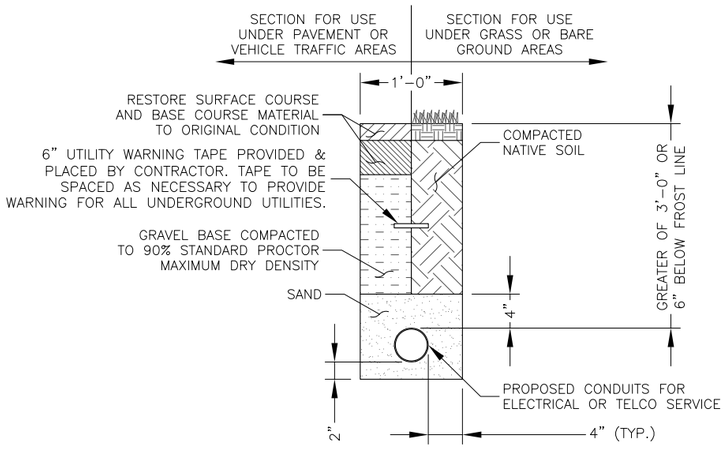
OKEECHOBEE, FL 34972

SHEET TITLE:
METER & TELCO RACK

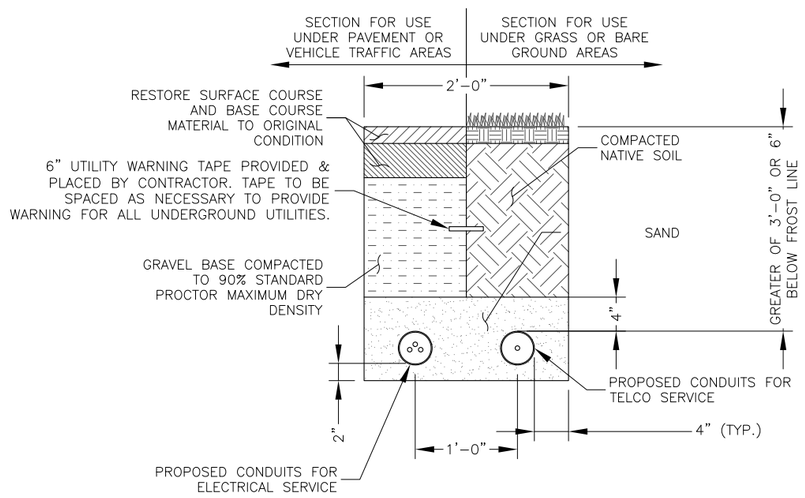
SHEET NUMBER:
E-2



ELECTRICAL OR TELCO TRENCH DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

NOTE:
CONTRACTOR TO INSTALL NUMBERED MULE-TAPE IN ALL CONDUITS.



NOTE:
CONTRACTOR TO INSTALL NUMBERED MULE-TAPE IN ALL CONDUITS.

JOINT UTILITY TRENCH DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

SECTION INTENTIONALLY LEFT BLANK

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SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:
E-3

NOTES:
1. ALL GROUNDING CONDUCTORS IN EARTH #2 SOLID BARE TINNED COPPER (SBTC).
2. ALL CONDUCTOR CONNECTION IN EARTH EXOTHERMICALLY WELDED.
3. ALL FENCE POST, TOWER LEGS, FRAME, ETC. METALLIC CONDUCTOR BONDS EXOTHERMICALLY WELDED.
4. ALL GROUND BAR CONNECTIONS MECHANICALLY BONDED WITH 2–HOLE CONNECTORS LISTED AND SUITABLE FOR THE APPLICATION.
5. MINIMUM 2–FT SEPARATION BETWEEN GROUND RINGS AND FOUNDATIONS IN ALL LOCATIONS.

CALLOUTS:

(1) #2 SOLID BARE TINNED COPPER CONDUCTOR 30" BELOW GRADE OR 6" BELOW FROST LINE, WHICH EVER IS GREATER (TYP.) MINIMUM 24" BENDING RADIUS.

(2) 5/8"x10' COPPER CLAD GROUND ROD (MIN. 10' APART).

(3) BOND ALL CORNER POSTS.

(4) 5/8"ø 10' LONG COPPER CLAD GROUND ROD WITH INSPECTION WELL, TOP OF GROUND ROD MAX 24" BURIED.

(5) BOND TOWER TO TOWER GROUND RING WITH #2 AWG SOLID TINNED GROUND WIRE. 2 CONNECTIONS EACH ORIENTED IN OPPOSITE DIRECTIONS ON GROUND RING (TYP.)

(6) #2 SOLID BARE TINNED COPPER LEADS (FROM GATE POST TO COMPOUND GROUNDING).

(7) BRAIDED STRAP CONNECTIONS (FROM GATE POST TO GATE).

(8) PROPOSED CHAIN LINKED FENCE.

(9) GROUND PROPOSED METER AND DISCONNECT.

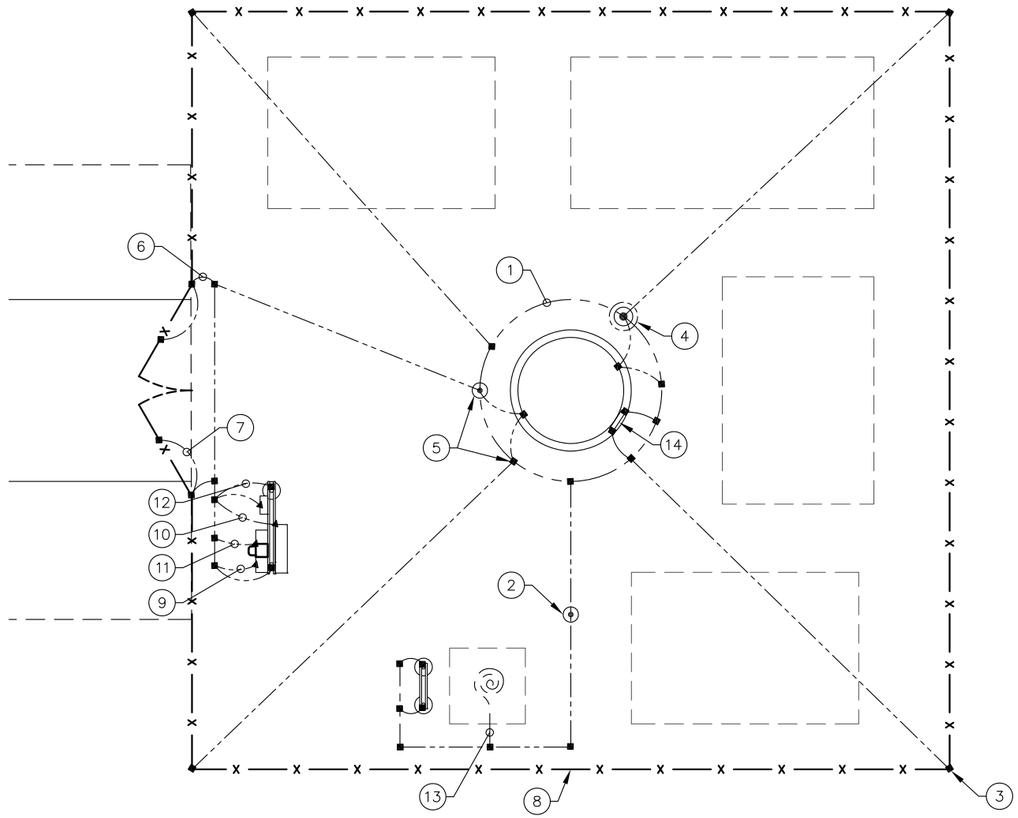
(10) PROVIDE AN EXTERNAL #2 TINNED COATED GROUND LEAD FROM GROUND RING TO ALL METAL CABINETS ON UTILITY BACKBOARD (TELCO, ELECTRIC, BREAKER PANELS, METER RACKS, JUNCTION BOXES, ETC.) SLEEVED IN CONDUIT FROM JUST BELOW GRADE TO SAND CABINETS USING BURNDY TYPE 2 LONG BARREL LUGS WITH NO–OK OR COPPER SHIELD

(11) BOND THE #6 GREEN INSULATED CONDUCTOR FROM METER PANEL AND DISCONNECT TO SEPARATE GROUND

(12) BOND THE #2 SOLID BARE TINNED COPPER LEADS FROM H–FRAME & EXOTHERMIC WELD TO COMPOUND GROUND RING

(13) PROPOSED GROUND LEAD TAIL

(14) TOWER GROUND BAR.



COMPOUND GROUNDING PLAN
11"x17" SCALE: 1" = 10'
24"x36" SCALE: 1" = 5'

10' 0 10' 20'
1"=10'

LEGEND	
— — — —	#2 SOLID BARE TINNED COPPER CONDUCTOR
▲	MECHANICAL CONNECTION (BURNDY OR EQUIVALENT)
■	EXOTHERMIC CONNECTION (CADWELD OR EQUIVALENT)
◎	INSPECTION WELL
⊙	5/8" DIA. X 10'–0" LONG, STEEL CLAD W/ A PURE COPPER JACKET (10' MIN. SEPARATION)

LEGEND:

OHP	OVERHEAD POWER
— X — X —	PROPOSED CHAIN–LINK FENCE
— X — X —	EXISTING FENCE
— — — — —	EXISTING EASEMENT
— — — — —	PROPOSED CORRIDOR
ROW	RIGHT–OF–WAY
— — — — —	PROPOSED LEASE AREA
	EXISTING ROAD / TURNAROUND
— — — —	PROPERTY LINE

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SHEET TITLE:
COMPOUND GROUNDING PLAN

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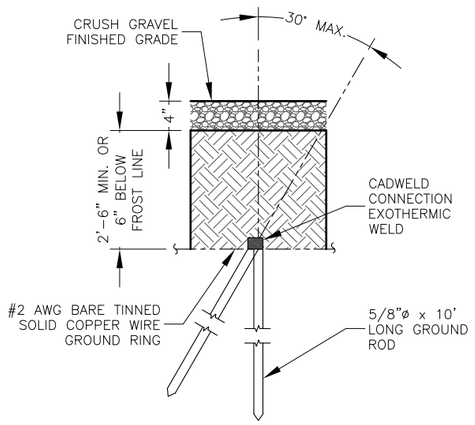
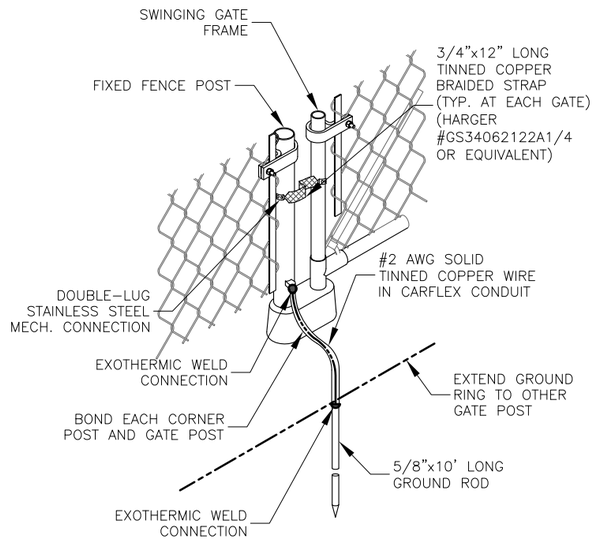
G-1



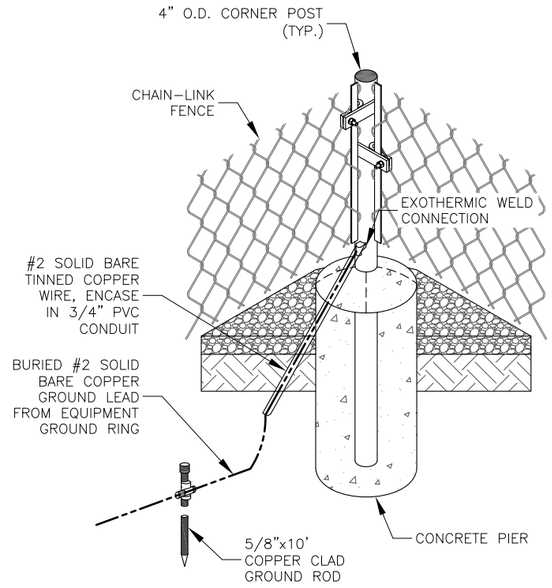
GROUND ROD DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.



GATE GROUNDING DETAIL

11"x17" SCALE: N.T.S.
22"x34" SCALE: N.T.S.

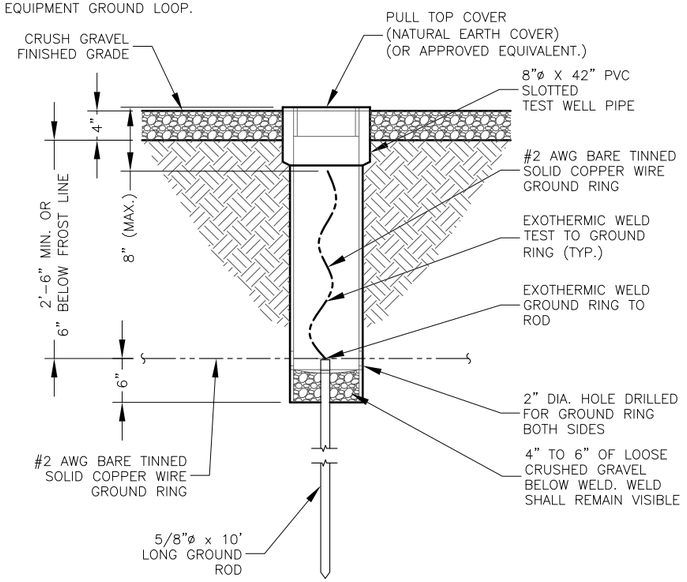


FENCE POST GROUNDING DETAIL

11"x17" SCALE: N.T.S.
22"x34" SCALE: N.T.S.

NOTES:

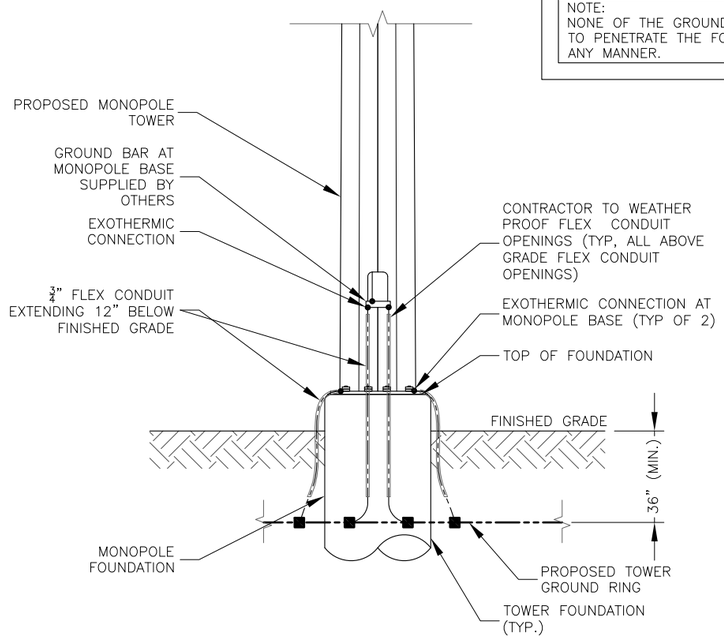
MINIMUM ONE TEST WELL SHALL BE PROVIDED BETWEEN THE TOWER GROUND LOOP AND THE EQUIPMENT GROUND LOOP.



GROUND ROD TEST WELL DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

NOTE:
NONE OF THE GROUNDING WIRE IS TO PENETRATE THE FOUNDATION IN ANY MANNER.



TOWER FOUNDATION GROUNDING DETAILS

11"x17" SCALE: N.T.S.
22"x34" SCALE: N.T.S.

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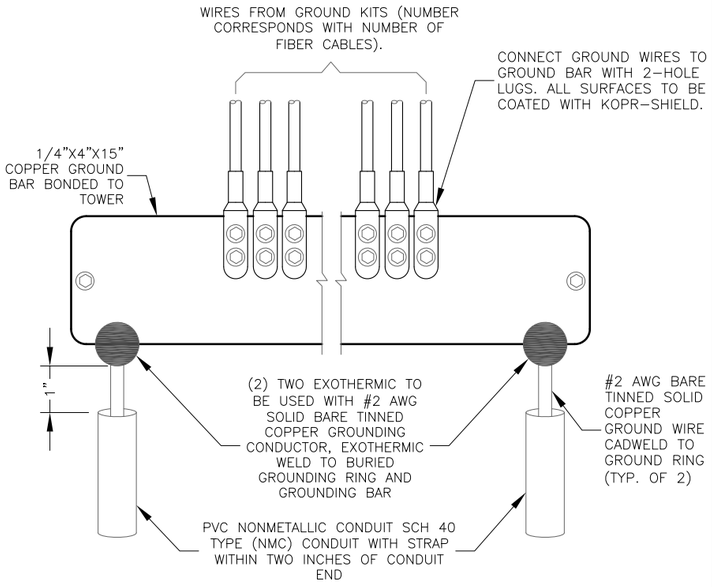
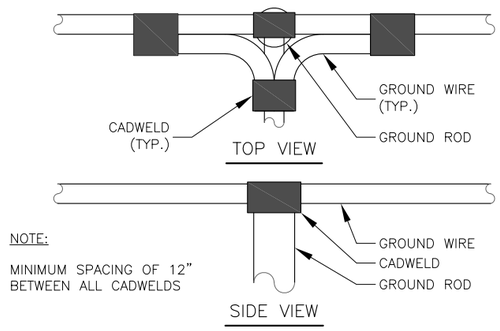
G-2



TOWER GROUND BAR

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

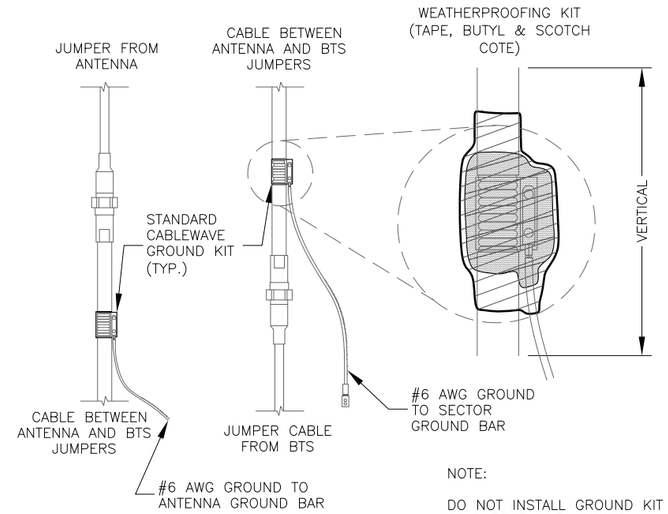


NOTE:

MINIMUM SPACING OF 12" BETWEEN ALL CADWELDS

CADWELD GROUNDING DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.



NOTE:

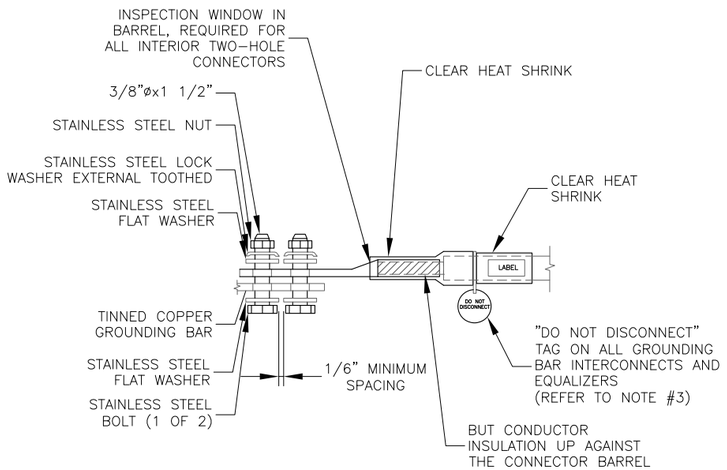
DO NOT INSTALL GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE

CABLE GROUND KIT CONNECTION DETAILS

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

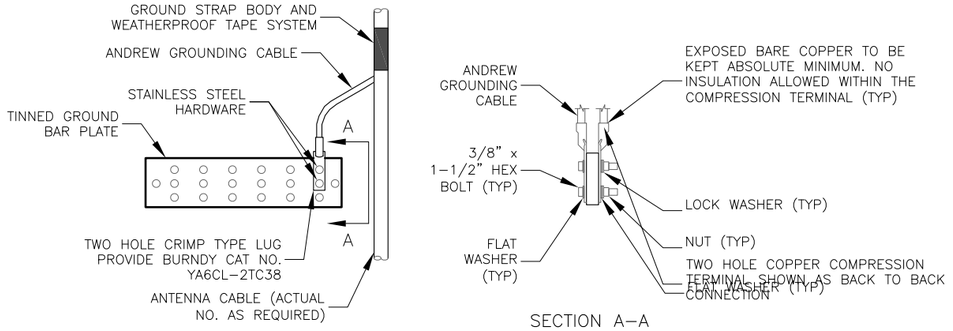
NOTES:

1. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING SPLIT WASHER. COAT ALL SURFACES WITH KIPR-SHIELD BEFORE MATING.
2. FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH KOPR-SHIELD.
3. PROVIDE "DO NOT DISCONNECT" TAG AS REQUIRED.



INTERIOR & EXTERIOR TWO HOLE GROUND LUG DETAIL

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.



SECTION A-A

NOTES:

1. ANTENNA CABLE GROUNDING AT ANTENNA SHALL BE SIMILAR AS APPLICABLE. TYPICAL FOR ALL BONDING CONDUCTOR CONNECTIONS TO GROUND BAR PLATE.
2. DOUBLING "UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED. OXIDE-INHIBITING JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
3. PROVIDE ANDREW 36" GROUNDING CABLE REQUIRING FIELD ATTACHABLE CRIMP ON LUG. DO NOT USE THE LUGS PROVIDED WITH THE GROUNDING KIT. PROVIDE TWO HOLE LUGS AS SHOWN IN ANTENNA CABLE GROUNDING AND GROUND BR PLATE CONNECTIONS DETAILS. AT ANTENNA, PROVIDE CRIMP TYPE "C" TAP FOR CONNECTION TO GROUND CONDUCTOR. GROUNDING CABLE SHALL BE FIELD CUT TO SHORTEST LENGTH POSSIBLE.

ANTENNA CABLE & GROUND BAR CONNECTIONS

11"x17" SCALE: N.T.S.
24"x36" SCALE: N.T.S.

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GROUNDING DETAILS

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G-3

ELECTRICAL–GROUNDING ROD SYSTEM NOTES:

1. ALL GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC PROCESS CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, ETC. ALL CABLE TO GROUND RODS, GROUND RODS SPLICES, AND LIGHTNING PROTECTION SYSTEM AS INDICATED. ALL MATERIALS USED (MOLDS, WELDING, METAL, TOOLS, ETC.) SHALL BE BY EXOTHERMIC PROCESS AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND PROCEDURES. GROUND CONDUCTOR SHALL HAVE A MINIMUM 24" BENDING RADIUS.
2. ALL EXOTHERMIC CONNECTIONS ON GALVANIZED SURFACES SHALL BE CLEANED THOROUGHLY AND COLORED TO MATCH SURFACE WITH (2) TWO COATS OF SHERWIN–WILLIAMS GALVITE (WHITE) PAINT B50W3 (OR EQUAL) OR SHERWIN–WILLIAMS SILVERBRITE (ALUMINUM) B59S11 (OR EQUAL).
3. ALL ELECTRICAL & MECHANICAL GROUND CONNECTIONS SHALL HAVE A CONDUCTIVE RUST AND CORROSION INHIBITOR (T&B KOPR–SHIELD OR EQUIVALENT) APPLIED TO CONNECTION.
4. INSTALL ALL GROUND RODS VERTICALLY IN UNDISTURBED EARTH. WHERE SOLID ROCK IS ENCOUNTERED, INSTALL MAX 45° ANGLE AWAY FROM EQUIPMENT, TOWER, OR OTHER ABOVE GROUND ELEMENTS BEING PROTECTED.
5. GROUND RING AROUND BUILDING SHALL BE #2 SOLID TINNED BARE COPPER (SBTC), BARE TINNED COPPER CONDUCTOR, IN CONTACT WITH BARE EARTH AT A MINIMUM DEPTH OF 36". ALL CONDUCTOR BENDS SHALL NOT BE LESS THAN A MINIMUM RADIUS OF 24".
6. THE FENCE AND GATE POSTS SHALL BE BONDED TO THE GROUNDING SYSTEM WITH #2 SBTC EXOTHERMICALLY WELDED TO THE POST. BOND SWING GATE TO GATE POST WITH #4/0 FLEXIBLE COPPER STRANDED CONDUCTOR (WELDING CONDUCTOR OR SIMILAR). ALL CONNECTIONS SHALL BE EXOTHERMICALLY WELDED WITH COLD–GALVANIZED PAINT APPLIED AFTER WELDING.
7. BOND ALL CONDUCTIVE ELEMENTS TO GROUNDING SYSTEM THAT ARE WITHIN 5–FT OF ANY PART OF GROUNDING SYSTEM OR WITHIN 20–FT OF TOWER RING USING SIMILAR SYSTEMS AS APPLIED TO FENCE CORNER POSTS.
8. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO THE SPECIFIC SITE CONDITIONS.
9. UTILITY COMPANY COORDINATION: ELECTRICAL CONTRACTOR SHALL CONFIRM THAT ALL WORK IS IN ACCORDANCE WITH THE RULES OF THE LOCAL UTILITY COMPANY BEFORE SUBMITTING THE BID, THE CONTRACTOR SHALL CHECK WITH THE UTILITY COMPANIES SUPPLYING SERVICE TO THIS PROJECT AND SHALL DETERMINE FROM THEM ALL EQUIPMENT AND CHARGES WHICH THEY WILL REQUIRE AND SHALL INCLUDE THE COSTS IN THE BID.
10. THIS GROUNDING SYSTEM HAS BEEN DESIGNED TO ACHIEVE A RESISTANCE MEASUREMENT PERFORMANCE OF 5 OHMS OR LESS. SHOULD THE RESULT NOT ACHIEVE THIS DESIRED PERFORMANCE, CONTACT ENGINEER FOR FURTHER ACTION.
11. GROUND RINGS ARE TO BE INSTALLED A MINIMUM OF 2'–0" FROM EQUIPMENT AND TOWER.

ELECTRICAL–GROUNDING ROD SYSTEM NOTES:

1. GROUND RODS SHALL BE INSTALLED NO CLOSER THAN 10–FT APART.
2. GROUND RODS SHALL BE INSTALLED WITH TOPS AT THE SAME DEPTH AS GROUNDING SYSTEM CONDUCTOR (RING OR RADIAL).
3. ALL BELOW GRADE GROUND RINGS AND GROUND LEADS SHALL BE #2 AWG SOLID, TINNED BARE COPPER WIRE.
4. ALL BELOW GROUND CONNECTIONS SHALL BE EXOTHERMIC WELDS.
5. UNLESS PROVIDED WITH A FACTORY APPLIED LEAD, ALL CONNECTIONS TO GROUND BARS SHALL BE BURNDY HYGROUND COMPRESSION LUGS OR EQUAL.
6. STEEL SHALL BE TO BARE METAL. GRIND GALV. FINISH OR PAINT OFF PRIOR TO WELDING, REPAIR GALV. FINISH OR PAINT AS REQUIRED, MATCH PAINT COLOR.
7. ALL LUG CONNECTORS SHALL BE 2 HOLE LONG BARREL COMPRESSION TYPE OR APPROVED EQUAL.
8. ALL HARDWARE TO ATTACH MECHANICAL GROUND CONNECTIONS SHALL BE STAINLESS STEEL.
9. ALL MECHANICAL CONNECTIONS SHALL HAVE CONDUCTIVE ANTI–OXIDANT COMPOUND APPLIED BETWEEN COMPRESSION LUG AND FIXTURE.

LEAD IDENTIFICATION & DESCRIPTION:

1	RING, EXTERNAL BURIED W/RODS	#2 SBTC
1A	RING, CONCRETE ENCASED	#2 SBTC
2	DEEP ANODE (TO IMPROVE OHMS)	ROD OR PIPE
3	RING TO BLDG STL FRAME	#2 SBTC
4	MAN AC PANEL NEUTRAL BUS TO (2) GROUND RODS, ISOLATED FROM LEAD #1	NEC 250.66
5	RING TO GROUND BAR	(2) #2 SBTC
6	RING TO EXT MTL OBJECT	#2 SBTC
7	DEEP ANODE TO MGB	NSTD33–9
8	AC PANEL TO WATER METER	NEC 250.66
9	EXT WATER TO INT WATER PIPES	NSTD33–9
10	INT WATER PIPE TO MGB	NSTD33–9
11–12	NOT USED	
13	AC PANEL TO MGB	NSTD33–9
14	MGB/FGB TO BLDG STL FRAME	#2/0 I–STR
14C	MGB/FGB TO ROOF/WALL MTL PNL	#1/0 I–STR
15	MGB/FGB TO FGB–HE SAME FLOOR	#2/0 I–STR
16	NOT USED	
16A	ECPGB TO CABLE ENTRY RACK	#1/0 I–STR
17	MGB TO CABLE SHIELDING	#6 I–STR
17A	ECPGB TO CABLE SHIELDING	#6 I–STR
17B	MGB/FGB TO F–0 SPLICE SHELF	#1 I–STR
18	LOWEST MGB/FGB TO HIGHEST FGB	#2/0 I–STR
19	LEAD 18 TO OTHER FGB, <6'	#2/0 I–STR
20	MGB/FGB TO BRANCH AC PNL	#6 I–STR
20A	NEAREST GRIND TO DISCONNECT PNL	NEC 250.66
20B	GWB TO AC DISTR PNL	#6 I–STR
21	MGB/FGB TO INT HALO	#2 I–STR
21A	INTERIOR 'GREEN' HALO	#2 I–STR
21B	INT HALO TO EXT RING	#2 SBTC
21C	INT HALO TO EQUIPMENT MTL	#6 I–STR
22	ROOF TOWER RING TO ROOF GRND	NFPA 780
23	MGB/FGB TO ECPGB, SAME FLOOR	#1 I–STR
23A	MGB/FGB TO CXR–HF LINR PROT	#6 I–STR
24	ECPGB TO EACH PROTECTOR ASSEMBLY	#6 I–STR
24A	LOWER PROT ASSY TO UPPER	#6 I–STR
25	RING TO NEAREST LIGHTNING ROD	#2 SBTC
26	LIGHTNING ROD SYS TO NEARBY MTL	NFPA 780
27	RING TO TOWER RING	(2) #2 SBTC
28	RING TO SHELTER RING	(2) #2 SBTC
29	BRANCH AC PNL TO BTTY CHG FRM	NSTD33–11
30	BRANCH AC PNL TO OUTLETS	NSTD33–11
31	MGB/FGB TO PWR, BTTY FRAMES	#2/0 I–STR
32	#31 TO BATTERY CHARGER FRAME	#6 I–STR
33	#31 TO BATTERY RACK FRAME	#6 I–STR
34	#31 TO PCU FRAME	#6 I–STR
35	#31 TO DCU FRAME	#6 I–STR
36	#31 TO PCU FRAME	#6 I–STR
37	MGB/FGB TO BTTY RETURN	NSTD33–14.5
37A	MGB/FGB TO RTN TERM CARR SUPP	#6 I–STR
38	FGB TO PDU GB	#750MCM I–STR
38A	FGB TO PDU GB CARRIER SUPPLY	#2/0 I–STR
39	DC BUS DUCT TO NEXT SECTION	#6 I–STR
40	DC BUS DUCT TO MGB/FGB	#6 I–STR
41A	MGB/FGB TO #58	#2/0 I–STR
42–44	NOT USED	
45	MAIN AC PNL TO BRANCH AC PNL	NSTD33–11
46	BRANCH AC PNL TO DED OUTLET	NSTD33–11
47	FGB TO INTEG FRM	#2 I–STR
48	LEAD #31 TO INTEG FRM	#6 I–STR
49	INTEG FRM TO EQUIP SHELF	BY FASTENERS
50	PDU BTTY RET TO #51	#2/0 I–STR
51	#50 TO TRANS FROM ISO DC PWR	#6 I–STR
52	TRANS FRM FUSE TO FRM OR BAR	#8 I–STR
53A	MGB/FGB TO PDF/BDFB	NSTD33–22
54	MGB/FGB TO STATIC DEVICES	#6 I–STR
55	MGB/FGB TO CABLE AT ENTRY	#6 I–STR
56	MGB/FGB TO AC PWR RADIO XMTTR	#6 I–STR
57A	MGB/FGB TO CBLGRID/RUNWAY	#2/0 I–STR
58A	#41A TO AISLE FRAME	#2 I–STR
59A	#58A TO EACH SGL FRAME GRND	#6 I–STR
60–89	NOT USED	
90	GENERATOR FRAME TO EXT RING	#2 SBTC

CITYSWITCH
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ATLANTA, GA 30345

CSX

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SUBMITTALS

REV	DATE	DESCRIPTION	BY	CHK'D
0	11/29/2021	CONSTRUCTION	MTS	JRB

DENNIS DANIEL ABEL LICENSE No 62750 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/29/21

DENNIS D. ABEL, PE
FDH INFRASTRUCTURE SERVICES, LLC
COA 28282
STATE LICENSE NO. 62750

FDH JOB NUMBER:
PR-006900

SITE ID:
FLC034

SITE NAME:
OKEECHOBEE

FA LOCATION:
-

ADDRESS:
1117 NW 9TH ST
OKEECHOBEE, FL 34972

SHEET TITLE:
GROUNDING NOTES

SHEET NUMBER:
G-4