C I T Y O F F O R T P I E R C E

CITY COMMISSION AGENDA

Regular Meeting - Monday, December 17, 2018 - 6:30 p.m.
City Hall - City Commission Chambers, 100 North U.S. #1, Fort Pierce, Florida

SPECIAL PRESENTATION BEGINNING AT 6:15 p.m.

1. **CALL TO ORDER**

2. **OPENING PRAYER -** Pastor Hazel Holyman, In the Image of Christ

3. **PLEDGE OF ALLEGIANCE**

4. **ROLL CALL**

5. **APPROVAL OF MINUTES**

   a. Approval of minutes from the December 3, 2018 regular meeting.

6. **PROCLAMATIONS**

7. **LETTERS TO COMMISSION**

   a. Email from Dr. Julie Kittams and the staff of Operation S.O.S. thanking Code Compliance Manager Peggy Arraiz for her presentation of the City's Trap/Neuter/Vaccinate/Return (TNVR) program, which is a successful model for zero feral cat growth.

   b. Letter from Main Street Fort Pierce thanking the City of Fort Pierce, Public Works and the Police Department for their efforts supporting the Sights and Sounds Parade and keep attendees safe and the event secure. Special thanks were offered to Sgt. John Schramm, FPPD.

8. **COMMENTS FROM THE PUBLIC ON AGENDA ITEMS NOT REQUIRING PUBLIC HEARINGS**

   Any person who wishes to comment on an agenda item which is not under Public Hearings on the Agenda may be heard at this time and must sign up to speak in advance. Please limit your comments to three (3) minutes or less, as directed by the Mayor, as this section of the Agenda is limited to thirty minutes. The City Commission will not be able to take any official actions under Comments from the

Public. Speakers will address the Mayor, Commissioners, and the Public with respect. Inappropriate language will not be tolerated.

9. **ADDITIONS OR DELETIONS TO AGENDA AND APPROVAL OF AGENDA**

10. **MISCELLANEOUS REPORTS**

a. Presentation and Options for the Old Dixie Highway Bridge at Taylor Creek which was closed to the public on January 25, 2018 due to structural damage sustained as a result of the damaging effects of Hurricane Irma.

b. Fort Pierce Utilities Authority Quarterly Status Report by John Tompeck, Utilities Director

11. **CONSENT AGENDA**

a. Request approval to award General Services Continuing Contracts with the two (2) firms, S & ME and NZ Consultants, on a project by project basis, ranked highest as a result of RFQ 2018-054.

b. Notification of a Minor Amendment to the Planned Development Site Plan for the KOA Campground owned and operated by S. R. Bacher Enterprises, LLC located 3180 S Jenkins Rd, Fort Pierce, FL.

c. Request approval of Kimley-Horn & Associates, Inc. Specific Authorization No. 6 in an amount not to exceed $65,916 to provide professional engineering services relating to the rehabilitation of the Citrus Avenue bridge.

d. Approve Letter of Support for International Conservation Program via Sister Cities International

e. Approval of Employment Agreement with Peter J. Sweeney for full time legal services as the City Attorney for the City of Fort Pierce.

12. **PUBLIC HEARINGS**

a. Presentation and Public Hearing of 2017-2018 Consolidated Annual Performance Evaluation Report (CAPER).

b. Legislative Hearing - Ordinance 18-042 Amending Chapter 13; Changing the Retirement vesting period from 10 years to 5 years for the Fort Pierce Utilities Authority, correcting Scrivener's error in Ordinance 18-037, adopted by Commission November 5, 2018. SECOND READING

c. Quasi-Judicial Hearing - Application submitted by Donald Noble to operate a food truck ("Fork It Over") at 1907 Avenue D, Fort Pierce. Said use requires a Waiver of Distance, Sec. 9-111(b)(1) and (2) to operate within 500 feet from a similar type of business and 300 feet from a church.

d. Quasi-Judicial Hearing - Review and approval of an application for Conditional Use with New Construction & Design Review, submitted by Property Owners, Lesley Phillips & Abdel Jebbar Elbakkari, & Applicant, RG Towers LLC, to construct and operate a One Hundred & Thirty (130) foot Stealth Slim Pole Telecommunications Tower, located at 2006 Orange Avenue, Fort Pierce, FL. The property is zoned General Commercial (C-3) Parcel ID: 2409-605-0008-000-4

e. Resolution No. 18-R62 and Quasi-Judicial Hearing – A hearing to allow the owners and/or parties of interest in the property identified as 1705 N 27th Street to show cause why the structure located on the premises should not be condemned and demolished.

13. **CITY COMMISSION**

a. Resolution No 18-R63 Supporting the Lincoln Theater restoration.

14. **COMMENTS FROM THE PUBLIC**

Any person who wishes to comment on any subject may be heard at this time. Please limit your comments to three (3) minutes or less, as directed by the Mayor, as this section of the Agenda is limited to thirty minutes. The City Commission will not be able to take any official actions under Comments from the Public. Speakers will address the Mayor, Commissioners, and the Public with respect. Inappropriate language will not be tolerated.

15. **COMMENTS FROM THE CITY MANAGER**

16. **COMMENTS FROM THE COMMISSION**

17. **ADJOURNMENT**

Pursuant to Section 286.0105, Florida Statutes, the City hereby advises you that if you or another person decide to appeal any decision made by the City Commission with respect to any matter considered at its meeting or hearing, that you or said person will need a record of the proceedings, and that for such purpose, affected persons may need to insure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based. This notice does not constitute consent by the City for the introduction or admission into evidence of otherwise inadmissible or irrelevant evidence, nor does it authorize challenges or appeals not otherwise allowed by law.

In accordance with the Americans with Disabilities Act and Section 286.26, Florida Statutes, persons with disabilities needing special accommodation to participate in this meeting should contact the City Clerk's Office at (772) 467-3065 at least 48 hours prior to the meeting.

City Commission Regular Meeting **5.a.**

Meeting Date: 12/17/2018

Re:

SUBJECT:

Approval of minutes from the December 3, 2018 regular meeting.

Attachments

12.03.2018 Minutes

Form Review

Form Started By: Linda Cox Started On: 12/05/2018 04:51 PM

Final Approval Date: 12/05/2018

MINUTES OF A REGULAR MEETING OF THE CITY COMMISSION OF THE CITY OF FORT PIERCE, FLORIDA, HELD IN THE CITY HALL COMMISSION CHAMBERS, 100 NORTH U.S. #1, FORT PIERCE, FLORIDA, AT 6:30 P.M. ON MONDAY, **DECEMBER 3, 2018.**

1. CALL TO ORDER

2. OPENING PRAYER - Kenny Norris, Deputy Chief, Fort Pierce Police Department

3. PLEDGE OF ALLEGIANCE

4. ROLL CALL

Present: Mayor Linda Hudson; Commissioner Rufus Alexander; Commissioner Jeremiah Johnson; Commissioner Thomas Perona; Commissioner Reginald Sessions

Staff Present: Interim City Attorney Benjamin Bryan
City Clerk Linda Cox
City Manager Nicholas Mimms

5. APPROVAL OF MINUTES

a. Approval of the minutes from the November 5, 2018 Regular Meeting and November 26, 2018 Special Meeting for City Attorney Finalists.

Motion was made by Commissioner Jeremiah Johnson, seconded by Commissioner Thomas Perona to approve item 5 a.

AYE: Mayor Linda Hudson, Commissioner Rufus Alexander, Commissioner Jeremiah Johnson, Commissioner Thomas Perona, Commissioner Reginald Sessions

Passed

6. **PROCLAMATIONS**

There were no proclamations issued.

7. **LETTERS TO COMMISSION**

There were no letters.

8. **COMMENTS FROM THE PUBLIC ON AGENDA ITEMS NOT REQUIRING PUBLIC HEARINGS**

Gary Richardson spoke on item 11 c.

9. **ADDITIONS OR DELETIONS TO AGENDA AND APPROVAL OF AGENDA**

Mayor Hudson asked the City Commission's approval to have item 13 c heard before the Consent Agenda.

Motion was made by Commissioner Thomas Perona, seconded by Commissioner Rufus Alexander to approve the agenda and move item 13 c before the Consent Agenda.

AYE: Mayor Linda Hudson, Commissioner Rufus Alexander, Commissioner Jeremiah Johnson, Commissioner Thomas Perona, Commissioner Reginald Sessions

Passed

10. MISCELLANEOUS REPORTS

a. 2019 City of Fort Pierce Legislative Program Presentation and Approval

Nicole Fogarty, Legislative Affairs Director for St. Lucie County and the City of Fort Pierce, presented the 2019 Legislative priorities. She went over several topics consisting of Economic Development, Budget and Taxation, General Administration (i.e. public records, public safety and school resources, etc.), Environmental and Natural Resources, Transportation and Infrastructure, Health and Human Services, and Education.

Motion was made by Commissioner Rufus Alexander, seconded by Commissioner Jeremiah Johnson to approve the program as presented.

AYE: Mayor Linda Hudson, Commissioner Rufus Alexander, Commissioner Jeremiah Johnson, Commissioner Thomas Perona, Commissioner Reginald Sessions

Passed

b. Presentation and update on Clean & Safe Initiative (CSI) program.

Peggy Arraiz, Code Enforcement Manager, indicated the Clean and Safe Initiative was adopted by the City Commission in September of 2017 and FPUA began collecting the $1 fee on October 1, 2018. As of the closing of the 2018 Fiscal Year, $267,595 was collected. Some of this money has been used to demolish four structures and 10 structures, that are not yet ready to be demolished, have been secured and clear boarding has been used on the front side windows and doors and wood on the rear.

11. CONSENT AGENDA

a. Approval of the installation of two (2) vertical 120-gallon propane tanks at 3603 River Birch Dr.

b. Approve waiver of fees in the amount of $158.53 associated with lot clearing lien against N 9th Street, Fort Pierce, FL 34950, Parcel ID #2403-711-0031-000-2 previously owned by Leon Gilliam, 619 N 9th Street, Fort Pierce, FL and currently owned by John Travers 1630 Seaway Drive, Fort Pierce, FL contingent upon payment of $150.00 payable in 30 days. Please note, applicant is requesting a waiver of all fees, including hard costs. Corrected from 11/19/2018 agenda.

c. Request to reduce code enforcement lien in the amount of $1,600.00 against 1912 Tucker Court, Ft. Pierce, FL 34950 - Parcel ID Number 2409-712-0023-000-4 - previously owned by Delfino & Maria Pita, 1912 Tucker Court, Ft. Pierce, FL 34950 and currently owned by Muhammad Saghir, 1912 Tucker Court, Ft. Pierce, FL 34950 to $500.00 payable in 30 days. This amount includes the $250.00 administrative fee, which may be waived by the City Commission.

d. Request to reduce code enforcement lien in the amount of $69,240.00 against 427 N 12th St., Rear B, Ft. Pierce, FL 34950 - Parcel ID Number 2409-501-0267-010-1 - previously owned by L Discount Photo & Video Inc, 527 NE 125th St., Miami, FL 33161 and currently owned by South East Builders Group Inc.,152 SW Pilsner Circle, Port St. Lucie, FL 34953 to $1000.00 payable in 30 days. This amount includes the $250.00 administrative fee, which may be waived by the City Commission.

e. Request to reduce code enforcement lien in the amount of $69,240.00 against 427 N 12th St., Rear A, Ft. Pierce, FL 34950 - Parcel ID Number 2409-501-0267-010-1 - previously owned by L Discount Photo & Video Inc, 527 NE 125th St., Miami, FL 33161 and currently owned by South East Builders Group Inc., 152 SW Pilsner Circle, Port St. Lucie, FL 34953 to $1000.00 payable in 30 days. This amount includes the $250.00 administrative fee, which may be waived by the City Commission.

f. Request to reduce code enforcement lien in the amount of $52,690.00 against 2404 Oleander Avenue, Ft. Pierce, FL 34982 - Parcel ID Number 2422-604-0002-000-0 - previously owned by Joan R. Stevenson (Est), 2404 Oleander Avenue, Ft. Pierce, FL 34982 and currently owned by Evone D. McArthur (sister), 2404 Oleander Avenue, Ft. Pierce, FL 34982 to $250.00 to cover administrative fee and payable in six (6) months.This amount may be waived by the City Commission.

g. Request to reduce code enforcement lien in the amount of $195,250.00 against 2404 Oleander Avenue, Ft. Pierce, FL 34982 - Parcel ID Number 2422-604-0002-000-0 - previously owned by Joan R. Stevenson (Est), 2404 Oleander Avenue, Ft. Pierce, FL 34982 and currently owned by Evone D. McArthur (sister), 2404 Oleander Avenue, Ft. Pierce, FL 34982 to $250.00 to cover administrative fee and payable in six (6) months.This amount may be waived by the City Commission.

h. Request to reduce code enforcement lien in the amount of $110,610.00 against 2404 Oleander Avenue, Ft. Pierce, FL 34982 - Parcel ID Number 2422-604-0002-000-0 - previously owned by Joan R. Stevenson (Est), 2404 Oleander Avenue, Ft. Pierce, FL 34982 and currently owned by Evone D. McArthur (sister), 2404 Oleander Avenue, Ft. Pierce, FL 34982 to $250.00 to cover administrative fee and payable in six (6) months.This amount may be waived by the City Commission.

i. Request to reduce code enforcement lien in the amount of $25,140.00 against 907 (911) N 13th St., Ft. Pierce, FL 34950 - Parcel ID Number 2404-813-0031-000-8 - currently owned by Love Center Regeneration Ministries, Inc., P. O. Box 2384, Ft. Pierce, FL 34954 to $1000.00 payable in six (6) months. This amount includes the $250.00 administrative fee, which may be waived by the City Commission.

j. Approve the Lease Agreement between Winking Starfish, LLC, d/b/a Crabby's Dockside Fort Pierce, for a term of 20 years plus 2 five year renewal options, in accordance with RFP 2018-010.

k. Approve Contractual Agreement for Lincoln Park Main Street to recieve funding through Community Development Block Grant funds as approved in the 2018-2019 CDBG Action Plan in the total amount of $50,000.

l. Approve Contractual Agreement for Main Street Fort Pierce to receive funding through Community Development Block Grant funds as approved in the 2018-2019 CDBG Action Plan in the total amount of $50,000.

m. Approval of Change Order No. 5 from Lynch Paving and Construction, Co. Inc. for construction of parking improvements at Dreamland Park in an amount not to exceed $183,141.00.

Commissioner Johnson pulled items 11 f, 11 g, and 11 h for discussion.

Motion was made by Commissioner Rufus Alexander, seconded by Commissioner Reginald Sessions to approve items 11 a, 11 b, 11 c, 11 d, 11 e, 11 i, 11 j, 11 k, 11 l, and 11 m.

AYE: Mayor Linda Hudson, Commissioner Rufus Alexander, Commissioner Jeremiah Johnson, Commissioner Thomas Perona, Commissioner Reginald Sessions

Passed

As to items 11 f, 11 g, and 11 h, Peggy Arraiz, Code Enforcement Manager, explained the costs charged for each property and how they came up with the amount to be waived for each. Additionally, she indicated all three cases were heard by the Special Magistrate. At a future conference agenda meeting, she will explain the process that they go through in preparing these cases.

Motion was made by Commissioner Jeremiah Johnson, seconded by Commissioner Rufus Alexander to approve items 11 f, 11 g, and 11 h.

AYE: Mayor Linda Hudson, Commissioner Rufus Alexander, Commissioner Jeremiah Johnson, Commissioner Thomas Perona, Commissioner Reginald Sessions

Passed

12. PUBLIC HEARINGS

a. Resolution No. 18-R58 and Quasi-Judicial Hearing – A hearing to allow the owners and/or parties of interest in the property identified as 401 N 21st Street to show cause why the structure located on the premises should not be condemned and demolished.

City Clerk Linda Cox introduced the resolution, read by title only, into the record.

RESOLUTION NO. 18-R58 A RESOLUTION DETERMINING THAT A CERTAIN BUILDING OR STRUCTURE LOCATED AT 401 N 21ST ST IN FORT PIERCE, FLORIDA IS UNSAFE AND A NUISANCE THAT CONSTITUTES A MENACE TO THE BUSINESS, HEALTH AND SAFETY OF THE COMMUNITY; AND THAT SAID BUILDING OR STRUCTURE SHALL BE CONDEMNED AND DEMOLISHED; DECLARING THE PARTIES OF INTEREST WERE PROVIDED THE OPPORTUNITY TO BE HEARD AND ARE RESPONSIBLE FOR THE REMOVAL OF THE BUILDING OR STRUCTURE; AND ORDERING THE CITY OF FORT PIERCE TO AFFECT SUCH REMOVAL AND PLACE A LIEN UPON THE PROPERTY IDENTIFIED IF COMPLETED BY THE CITY OF FORT PIERCE; PROVIDING FOR APPEAL; PROVIDING FOR NOTICE TO ALL PARTIES; AND PROVIDING FOR AN EFFECTIVE DATE

Before commencing this Quasi-Judicial Hearing, Ben Bryan, Jr., Interim City Attorney, reminded the Commission when acting as a Quasi-Judicial Body they apply the laws and policies established and are held to stricter procedural requirements, following basic standards established and are held to stricter procedural requirements, following basic standards of notice and due process based on substantial evidence. As such, they conduct these proceedings as judges instead of legislators.

The only other individuals that may be heard are people who might have relevant information

and their comments are limited to three (3) minutes each. Members of the public may be permitted to present their non-expert opinions, but the Commission must know that public sentiment is not relevant to the decision, which must be based on competent, substantial evidence.

Mayor Hudson called the proceeding to order.

City Clerk, Linda Cox, confirmed the City complied with advertisement and notice requirements.

Mayor Linda Hudson inquired with the Commission regarding ex-parte communications; no one had ex-parte communications.

City Clerk, Linda Cox, was asked to swear in those wanting to speak during this Quasi-Judicial hearing. Individuals in the audience intending to speak on this item were asked to stand, raise their right hand, and administered an oath to tell the truth, the whole truth and nothing but the truth. Those that were sworn in were asked to clearly state their name for the record and confirm they were sworn in at such time as they were asked to come forward to testify.

Peggy Arraiz, Code Enforcement Manager, explained the long history of code enforcement violations for this property. The property is not home-steaded and it is vacant. All building permits are now expired and the title search was completed. Notices were sent to the owner and no reply was received. Ms. Arraiz presented the City Commission with various forms of evidence and is requesting the City Commission approve this resolution for demolition.

Mayor Hudson opened the Public Hearing.
Seeing no one, the Mayor closed the Public Hearing.

Motion was made by Commissioner Thomas Perona, seconded by Commissioner Reginald Sessions to approve item 12 a.

AYE: Mayor Linda Hudson, Commissioner Rufus Alexander, Commissioner Jeremiah Johnson, Commissioner Thomas Perona, Commissioner Reginald Sessions

Passed

b. Quasi-Judicial Hearing - Review and approval of an application for a Conditional Use with No New Construction submitted by the property owner, Crossroads Parkway FPI, LLC and the applicant, Harry Zuker, to allow the uses of Artisan, Cabinet Shops/Woodworking, Light Industrial Service, Catering Facility (Large Scale), Contractor/Others Performing Services Off-Site, Microbrewery, Research Service, and Wholesale Trade to be permitted at the Nexus Business Park located at 2765 Peters Road in Fort Pierce, Florida. The property is zoned General Commercial (C-3), Parcel ID: 2324-311-0005-000-1.

Mayor Hudson indicated Ben Bryan, Jr., Interim City Attorney, did not have to re-read the Quasi-Judicial Hearing information again. No one requested it be re-read.

Mayor Hudson called the proceeding to order.

City Clerk, Linda Cox, confirmed the City complied with advertisement and notice requirements.

Mayor Linda Hudson inquired with the Commission regarding ex-parte communications; no one had ex-parte communications.

City Clerk, Linda Cox, was asked to swear in those wanting to speak during this Quasi-Judicial hearing. Individuals in the audience intending to speak on this item were asked to stand, raise their right hand, and administered an oath to tell the truth, the whole truth and nothing but the truth. Those that were sworn in were asked to clearly state their name for the record and confirm they were sworn in at such time as they were asked to come forward to testify.

Vennis Gilmore, Planning Analyst, explained this is a Conditional Use Application for 2765 Peters Road. Showing an aerial view of the subject site, Mr. Gilmore indicated there are several Conditional Uses being sought in this C-3 zoning located within Nexus Business Park. These include artisan, cabinet shops and woodworking, light industrial services, catering facility, contractors and others performing services off-site, microbrewery, research service and wholesale trade. He noted a request similar to this one was granted for the use of a Biotech Research Facility by the City Commission in February 2009. All affected City Departments have reviewed the proposed Conditional Use and have provided approval with conditions based on compliance with requirements of the City Code. The Planning Board voted unanimously in favor to recommend approval. Because the requested Conditional Use with No New Construction is consistent with City Code, the Comprehensive Plan, and does not adversely affect the public health, safety, convenience and general welfare, staff recommends the City Commission approve the request with the following conditions:

1. Please ensure separation of uses; particularly the Police Athletic League from the other uses.
2. No outdoor storage, other than moving vehicles. Mayor Hudson opened the Public Hearing.

Henry Zuker confirmed he was sworn-in. Mr. Zuker indicated he wanted to keep mainly commercial companies in this location. He indicated he was okay with the conditions set forth.
Seeing no one else, the Mayor closed the Public Hearing.

Motion was made by Commissioner Jeremiah Johnson, seconded by Commissioner Rufus Alexander to approve item 12 b.

AYE: Mayor Linda Hudson, Commissioner Rufus Alexander, Commissioner Jeremiah Johnson, Commissioner Thomas Perona, Commissioner Reginald Sessions

Passed

c. Legislative Hearing - Ordinance No. 18-038 Amending Code Section 13-27; establishing procedure to be followed by means of which employees returning to City employment from active military duty may claim retirement credit or intervening military service. SECOND READING

City Clerk Linda Cox introduced the ordinance, read by title only, into the record.

ORDINANCE NO. 18-038 - AN ORDINANCE AMENDING THE CODE OF ORDINANCES OF THE CITY OF FORT PIERCE, FLORIDA; AMENDING CODE SECTION 13-27; ESTABLISHING PROCEDURE TO BE FOLLOWED BY MEANS OF WHICH EMPLOYEES RETURNING TO CITY EMPLOYMENT FROM ACTIVE MILITARY DUTY MAY CLAIM RETIREMENT CREDIT OR INTERVENING MILITARY SERVICE; REPEALING ORDINANCES OR PARTS THEREOF; PROVIDING FOR SEVERANCE; PROVIDING FOR AN EFFECTIVE DATE.

Mayor Hudson opened the Public Hearing.
Seeing no one, the Mayor closed the Public Hearing.

Motion was made by Commissioner Rufus Alexander, seconded by Commissioner Thomas Perona to approve item 12 c.

AYE: Mayor Linda Hudson, Commissioner Rufus Alexander, Commissioner Jeremiah Johnson, Commissioner Thomas Perona, Commissioner Reginald Sessions

Passed

d. Legislative Hearing - Ordinance 18-039 Approval of a Zoning Atlas Map Amendment (rezoning) submitted by property owner, Autz, Inc. A New York Company, applicant, Mark Youssef, and representative Brad Currie of Engineering, Design, & Construction, Inc. to rezone the property from C-1, Office Commercial to PD, Planned Development to allow for a pharmacy to become an allowed use on the property. Parcel ID: 2417-444-0001-000-7. SECOND READING

City Clerk Linda Cox introduced the ordinance, read by title only, into the record.

ORDINANCE NO. 18-039 - AN ORDINANCE BY THE CITY COMMISSION OF THE CITY OF FORT PIERCE, FLORIDA; REZONING PROPERTY GENERALLY LOCATED AT 2201 S. 25TH STREET FROM C-1, OFFICE COMMERCIAL, TO PD, PLANNED DEVELOPMENT; FURTHER APPROVING A DEVELOPMENT PLAN PURSUANT TO SECTION 22-40, PROVIDING FOR A SEVERABILITY CLAUSE; PROVIDING FOR REPEAL OF ORDINANCES OR PARTS THEREOF IN CONFLICT HEREWITH; AND PROVIDING FOR AN EFFECTIVE DATE.

Mayor Hudson opened the Public Hearing.
Seeing no one, the Mayor closed the Public Hearing.

Motion was made by Commissioner Reginald Sessions, seconded by Commissioner Thomas Perona to approve item 12 d.

AYE: Mayor Linda Hudson, Commissioner Rufus Alexander, Commissioner Jeremiah Johnson, Commissioner Thomas Perona, Commissioner Reginald Sessions

Passed

e. Legislative Hearing - Ordinance 18-040 A voluntary annexation submitted by the property owner Oleander Properties of Fort Pierce, LLC to annex property located at 702 Revels Lane. The property is currently zoned RM-11, Residential Multi-Family 11 du/acre with a Future Land Use of RH, Residential High 15 du/acre. Parcel ID: 2427-701-0082-000-7 SECOND READING

City Clerk Linda Cox introduced the ordinance, read by title only, into the record.

ORDINANCE NO. 18-040 - AN ORDINANCE EXTENDING THE TERRITORIAL LIMITS OF THE CITY OF FORT PIERCE, FLORIDA, TO INCLUDE 702 REVELS LANE IN FORT PIERCE, FLORIDA AND SHOWN ON EXHIBIT A; DIRECTING THE ST. LUCIE COUNTY PROPERTY APPRAISER TO ASSESS SAID PROPERTY AND PLACE IT ON THE CITY TAX ROLLS AS OF JANUARY 1, 2019; DIRECTING THE ST. LUCIE COUNTY TAX COLLECTOR TO COLLECT TAXES ON THE HEREIN DESCRIBED PROPERTY; ESTABLISHING THE ZONING DESIGNATION; ESTABLISHING THE LAND USE DESIGNATION; DIRECTING FILING OF THE ORDINANCE WITH THE CLERK OF THE CIRCUIT COURT AND CHIEF ADMINISTRATIVE OFFICER OF ST. LUCIE COUNTY; DIRECTING REVISION OF THE CHARTER BOUNDARY ARTICLE TO BE FILED WITH

THE DEPARTMENT OF STATE AND SUBMITTED TO THE OFFICE OF ECONOMIC AND DEMOGRAPHIC RESEARCH; PROVIDING FOR A SEVERABILITY CLAUSE; REPEALING ALL ORDINANCES OR PARTS THEREOF IN CONFLICT HEREWITH; AND PROVIDING FOR AN EFFECTIVE DATE.

Mayor Hudson opened the Public Hearing.
Seeing no one, the Mayor closed the Public Hearing.

Motion was made by Commissioner Jeremiah Johnson, seconded by Commissioner Rufus Alexander to approve item 12 e.

AYE: Mayor Linda Hudson, Commissioner Rufus Alexander, Commissioner Jeremiah Johnson, Commissioner Thomas Perona, Commissioner Reginald Sessions

Passed

f. Legislative Hearing - Ordinance 18-041 amending Chapter 5, Article I of the Code of Ordinance entitled "Building Code" amending Section 5-1.140 regulating the Construction Board of Adjustment and Appeals. SECOND READING

City Clerk Linda Cox introduced the ordinance, read by title only, into the record.

ORDINANCE NO. 18-041 - AN ORDINANCE BY THE CITY COMMISSION OF THE CITY OF FORT PIERCE, FLORIDA, AMENDING CHAPTER 5, ARTICLE I OF THE CODE OF ORDINANCES ENTITLED "BUILDING CODE"; AMENDING SECTION 5-1.140.2.1, TO PROVIDE ADDITIONAL RULES FOR CONSTRUCTION BOARD OF ADJUSTMENT AND APPEALS MEMBERSHIP; AMENDING SECTION 5-1.140.2.2, PROVIDING FOR BOARD TERMS; AMENDING SECTION 5-1.140.2.3 PROVIDING BOARD QUORUM REQUIREMENTS; AMENDING SECTION 5-1.140.2.4 PROVIDING BOARD SECRETARY DUTIES; AMENDING SECTION 5-1.140.2.5, TO PROVIDE CONDUCT OF BOARD MEMBER REQUIREMENTS; AMENDING SECTION 5-1.140.6.1, PROVIDING BOARD RULE MAKING AUTHORITY; PROVIDING FOR A SEVERABILITY CLAUSE; REPEALING ALL ORDINANCES OR PARTS OF ORDINANCES IN CONFLICT HEREWITH; PROVIDING FOR AN EFFECTIVE DATE.

Mayor Hudson opened the Public Hearing.
Seeing no one, the Mayor closed the Public Hearing.

Motion was made by Commissioner Jeremiah Johnson, seconded by Commissioner Thomas Perona to approve item 12 f.

AYE: Mayor Linda Hudson, Commissioner Rufus Alexander, Commissioner Jeremiah Johnson, Commissioner Thomas Perona, Commissioner Reginald Sessions

Passed

g. Legislative Hearing - Ordinance 18-042 Amending Chapter 13; Changing the Retirement vesting period from 10 years to 5 years for the Fort Pierce Utilities Authority, correcting Scrivener's error in Ordinance 18-037, adopted by Commission November 5, 2018. FIRST READING

City Clerk Linda Cox introduced the ordinance, read by title only, into the record.

ORDINANCE NO. 18-042 - AN ORDINANCE BY THE CITY COMMISSION OF THE CITY OF FORT PIERCE, FLORIDA AMENDING CODE SECTION 13-40; DECREASING CREDIT SERVICE REQUIREMENT FOR UTILITIES AUTHORITY COVERAGE PLAN; PROVIDING FOR A SEVERABILITY CLAUSE; REPEALING ALL ORDINANCES OR PARTS OF ORDINANCES IN CONFLICT HEREWITH; PROVIDING FOR AN EFFECTIVE DATE.

Ms. Cox indicated this ordinance would correct at Scrivener's error.

Mayor Hudson opened the Public Hearing.
Seeing no one else, the Mayor closed the Public Hearing.

Motion was made by Commissioner Thomas Perona, seconded by Commissioner Jeremiah Johnson to approve item 12 g.

AYE: Mayor Linda Hudson, Commissioner Rufus Alexander, Commissioner Jeremiah Johnson, Commissioner Thomas Perona, Commissioner Reginald Sessions

Passed

13. CITY COMMISSION

a. Resolution 18-R59 reappointing Bob Burdge and Gloria Johnson-Scott to the Planning Board.

City Clerk Linda Cox introduced the resolution, read by title only, into the record.

RESOLUTION NO. 18-R59 - A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF FORT PIERCE, FLORIDA, CERTIFYING THE APPOINTMENT OF MEMBERS TO THE CITY PLANNING BOARD; PROVIDING FOR AN EFFECTIVE DATE.

Motion was made by Commissioner Thomas Perona, seconded by Commissioner Jeremiah Johnson to approve item 13 a, Resolution 18-R59.

AYE: Mayor Linda Hudson, Commissioner Rufus Alexander, Commissioner Jeremiah Johnson, Commissioner Thomas Perona, Commissioner Reginald Sessions

Passed

b. Resolution No. 18-R60 appointing George "Buster" Johansen as Alternate #1 to the Historic Preservation Board.

City Clerk Linda Cox introduced the resolution, read by title only, into the record.

RESOLUTION NO. 18-R60 - A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF FORT PIERCE, FLORIDA, CERTIFYING THE APPOINTMENT OR REAPPOINTMENT OF MEMBERS TO THE HISTORIC PRESERVATION BOARD; PROVIDING FOR AN EFFECTIVE DATE.

Motion was made by Commissioner Thomas Perona, seconded by Commissioner Jeremiah Johnson to approve item 13 b.

AYE: Mayor Linda Hudson, Commissioner Rufus Alexander, Commissioner Jeremiah Johnson, Commissioner Thomas Perona, Commissioner Reginald Sessions

Passed

c. Resolution 18-R61 Approving Lease of Space in City Hall to Delores Johnson Florida State Representative

This item was heard before the Consent Agenda.

City Clerk Linda Cox introduced the resolution, read by title only, into the record.

RESOLUTION NO. 18-R61 - A RESOLUTION OF THE CITY OF FORT PIERCE, FLORIDA AUTHORIZING THE LEASE OF SPACE IN CITY HALL TO DELORES JOHNSON, FLORIDA STATE REPRESENTATIVE; AND PROVIDING FOR AN EFFECTIVE DATE.

Motion was made by Commissioner Rufus Alexander, seconded by Commissioner Thomas Perona to approve item 13 c.

AYE: Mayor Linda Hudson, Commissioner Rufus Alexander, Commissioner Jeremiah Johnson, Commissioner Thomas Perona, Commissioner Reginald Sessions

Passed

14. COMMENTS FROM THE PUBLIC

There were no public comments.

15. COMMENTS FROM THE CITY MANAGER

a. City Manager's Report and Purchase Order Report

Nicholas Mimms, City Manager, thanked the City Commission for attending the Fort Pierce Main Street Sights & Sounds Christmas Parade. At the December 10th Conference Agenda, Mr. Mimms will provide a Fort Pierce Strategic Plan update and the Parks Advisory Committee will provide a presentation and recommendations. In this meeting, they will also conduct the annual review of Board and Committee assignments for City Commission members. The Public Works department will discuss several sanitation collection strategies for our downtown areas. The FPRA will be hosting a pre-proposal meeting for the King Plant Redevelopment. The prospective City Attorney interviews will be conducted on December 6th. The St. Lucie County Board of County Commissioners will be hosting an information meeting on December 11th discussing the possible reallocation of tourism funds. On December 12th there will be a New Employee Orientation at the Riverwalk. Also, The Employee Appreciation Holiday Party will be December 15th. From December 16-19th there will be Trolley Tours for tourists and locals.

16. COMMENTS FROM THE COMMISSION

Commissioner Alexander requested information regarding rezoning from C2 to C3 on Avenue D. Rebecca Grohall, Planning Director, reported her findings.

Commissioner Perona thanked staff for their efforts on the Crabby's Lease. He also thanked Fort Pierce Main Street and Sunrise Kiwanis for their continuous efforts on behalf of the community and in the parade. He appreciates the Police Department keeping them safe during the parade. The Skeeter Skoot Ultra Run will take place on December 9th.
He thanked the Public Works Department for keeping our downtown clean and thanked our City Clerk, Linda Cox, for her efforts with the Commission’s transportation during the parade.

Commissioner Sessions urged Mr. Mimms to continue to stay on top of Brightline. He enjoyed the Christmas Parade. He indicated there was a tragic car accident that resulted in five deaths of local youth.

Commissioner Johnson indicated he was happy to see the Planning Board meeting minutes attached to their agenda tonight. Ms. Grohall replied to his question of new sign ideas for public notice and what they're doing to come up with these. In relation to the Historic Preservation Board and the Planning Board of Adjustments, he indicated the public deserves to know what is happening within our community and expressed concerned that they made final decisions rather than the City Commission.

Mayor Hudson indicated she attended the 100th birthday party of veteran, Pete Peterson. St. Paul AME Church is celebrating their 129th Anniversary. There is a Sunrise Theatre Volunteer Appreciation Party on December 10th. There will also be a Holiday Boat Parade on December 8th. She also thanked all involved in the parade.

17. ADJOURNMENT

The meeting adjourned at 8:36 p.m.

ATTEST:

_____ _____

CITY CLERK MAYOR COMMISSIONER

City Commission Regular Meeting **7.a.**

Meeting Date: 12/17/2018

Re: Email from Julie Kittams

Submitted For: Nick Mimms, City Manager, City Manager

SUBJECT:

Email from Dr. Julie Kittams and the staff of Operation S.O.S. thanking Code Compliance Manager Peggy Arraiz for her presentation of the City's Trap/Neuter/Vaccinate/Return (TNVR) program, which is a successful model for zero feral cat growth.

Attachments

Email from Julie Kittams

Form Review

Inbox	Reviewed By	Date
City Manager	Nick Mimms	12/11/2018 08:27 AM
City Manager	Nick Mimms	12/11/2018 08:28 AM

Form Started By: Jennifer Robinson Started On: 12/05/2018 01:12 PM

Final Approval Date: 12/11/2018

From:	"Julie Kittams" <juliekittams@gmail.com>
To:	"Peggy Arraiz" <parraiz@city-ftpierce.com>
Cc:	"Scott Coccoli" <scott.coccoli@hotmail.com>
Date:	11/27/2018 07:54 PM
Subject:	City of FP Community Cat Program

Ms. Arraiz,

I want to thank you from the very vast bottom of my soul for your presentation to the City of Fort Pierce Commission on November 19. 2018. The feral cat program in the City of Fort Pierce is a successful model for how we all can accomplish a zero-feral-cat growth within a municipality. It is such an honor to be part of a ground-breaking program. We will continue to TNVR in the spirit of, in the future, no feral cats. Florida deserves no invasive species with the delineation of no feral cats as a starting point. We all desire a day in which there are no free-roaming cats.

Much Thanks,
Dr. Julie Kittams and the staff of Operation S.O.S.

City Commission Regular Meeting **7.b.**

Meeting Date: 12/17/2018

Re:

SUBJECT:

Letter from Main Street Fort Pierce thanking the City of Fort Pierce, Public Works and the Police Department for their efforts supporting the Sights and Sounds Parade and keep attendees safe and the event secure. Special thanks were offered to Sgt. John Schramm, FPPD.

Attachments

Letter

Form Review

Form Started By: Linda Cox Started On: 12/11/2018 04:54 PM

Final Approval Date: 12/11/2018

MAIN STREET
FORT PIERCE

122 A. E. Backus Avenue, Fort Pierce, FL 34950

Tuesday, December 11, 2018

City of Fort Pierce
P.O. Box 1480
Fort Pierce, FL 34954

City of Fort Pierce
Mayor Linda Hudson
City Commissioners
City Manager Nick Mimms
Fort Pierce Public Works Department
Fort Pierce Police Department

On behalf of Main Street Fort Pierce and our Board of Directors, we would like to thank the City of Fort Pierce for supporting Sights and Sounds on Second Street Parade & Festival. We would also like to thank the Public Works Department and the Fort Pierce Police Department for their continued efforts while going above and beyond to keep attendees safe and the event secure. Special thanks to Sgt. John Schramm of the Fort Pierce Police Department for coordinating on all security concerns.

Main Street Fort Pierce, along with the Sunrise City Kiwanis, was honored to promote and organize the Sights and Sounds on Second Street Parade. The parade and festival brings a variety of people into our downtown area and through this event we are able to highlight the positive assets of Fort Pierce, as well as strengthen the community pride within our City.

Thank you again for your continued support of Main Street Fort Pierce, Inc.

Sincerely,

Michelle Cavalcanti

Michelle Cavalcanti
Marketing and Events
Main Street Fort Pierce, Inc.

Winner of the 2011 Great American Main Street Award

"A COPY OF THE OFFICIAL REGISTRATION AND FINANCIAL INFORMATION MAY BE OBTAINED FROM THE DIVISION OF CONSUMER SERVICES BY CALLING TOLL-FREE (800-435-7352) WITHIN THE STATE. REGISTRATION DOES NOT IMPLY ENDORSEMENT, APPROVAL, OR RECOMMENDATION BY THE STATE." CH26923

City Commission Regular Meeting **10.a.**

Meeting Date: 12/17/2018

Re: Old Dixie Highway Bridge over Taylor Creek Presentation

Submitted For: John Andrews, City Engineer, Engineering

SUBJECT:

Presentation and Options for the Old Dixie Highway Bridge at Taylor Creek which was closed to the public on January 25, 2018 due to structural damage sustained as a result of the damaging effects of Hurricane Irma.

Attachments

SLC PowerPoint

SLC PowerPoint - PDF

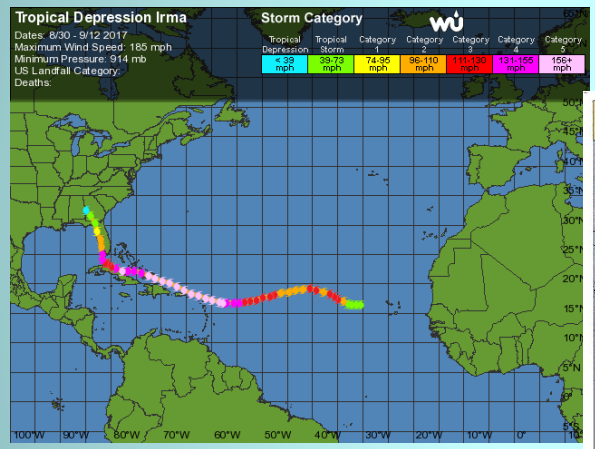
Form Review

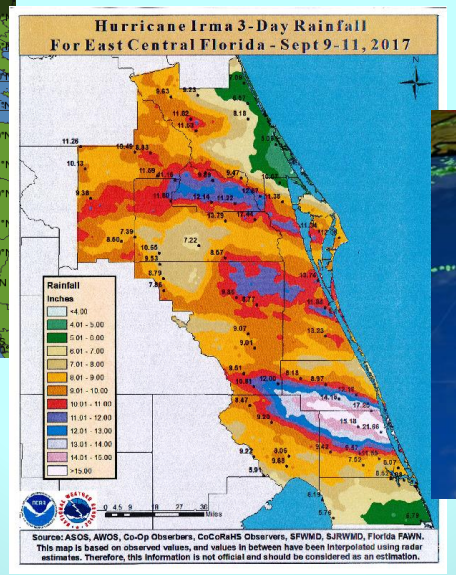
Inbox	Reviewed By	Date
City Manager	Nick Mimms	12/12/2018 11:46 AM

Form Started By: Tracy Telle Started On: 12/05/2018 02:29 PM

Final Approval Date: 12/12/2018

Old Dixie Highway Bridge over Taylor Creek







CITY OF FORT PIERCE – CITY COMMISSION
MEETING DECEMBER 17, 2018

Old Dixie Highway Bridge over Taylor Creek





- Bridge Built 1962
- Estimated Cost to Repair is $800,000
- Expected Functional Life for Bridges of this Generation is Typically 50 years



Closed to the Public on January 25, 2018

Original Traffic Flow
Vs
Detour Route

- Prior to the closure: Old Dixie Highway over Taylor Creek is 0.60 miles from U.S. Highway 1 to A1A

- After the closure: Old Dixie Highway is 0.80 miles to Old Dixie Highway/A1A intersection



Review of Bridge Options

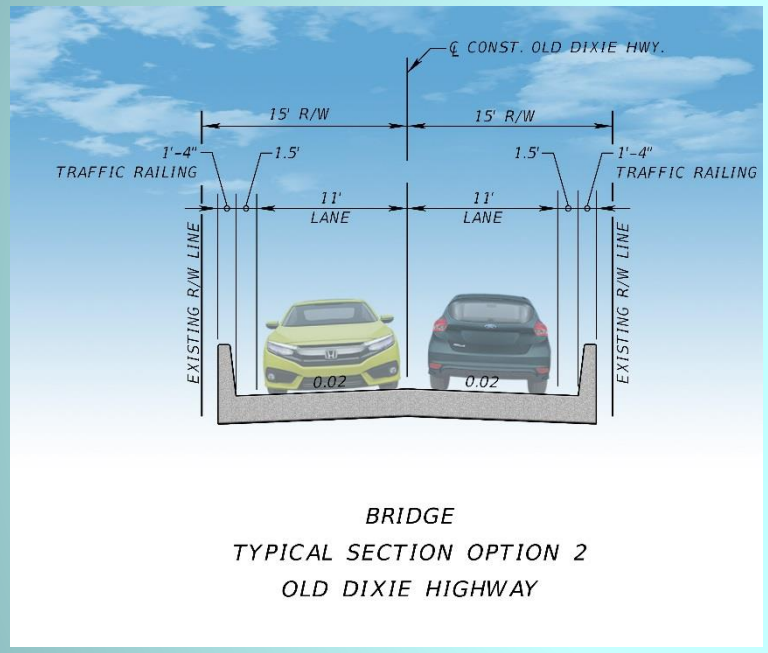
- Option 1 – Removal of the Existing Bridge
- Option 2 – Replace Bridge within Existing Right-of-Way
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- Option 4 – Two-Way Bridge with Multi-Use Path

OPTION 1 – Removal of the Existing Bridge

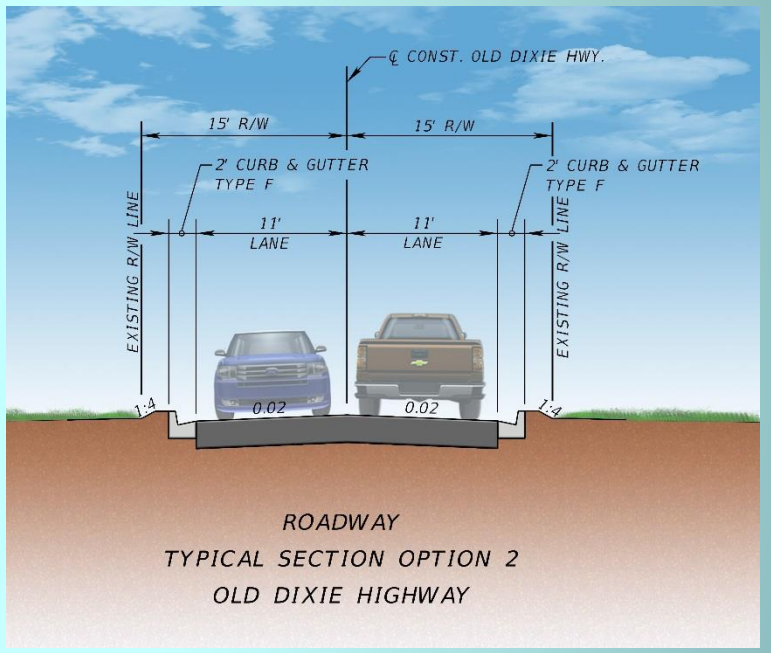
- Remove Existing Bridge
  - Utility Relocation Required
- Construct Cul-de-Sacs at North and South Approaches
- Right-of-Way Acquisition Required for Cul-de-Sacs (approximately 0.50 acres)
- Estimated Cost $1,030,000 (includes $200,000 for utility relocation).



OPTION 2 – REPLACE BRIDGE WITHIN EXISTING RIGHT-OF-WAY



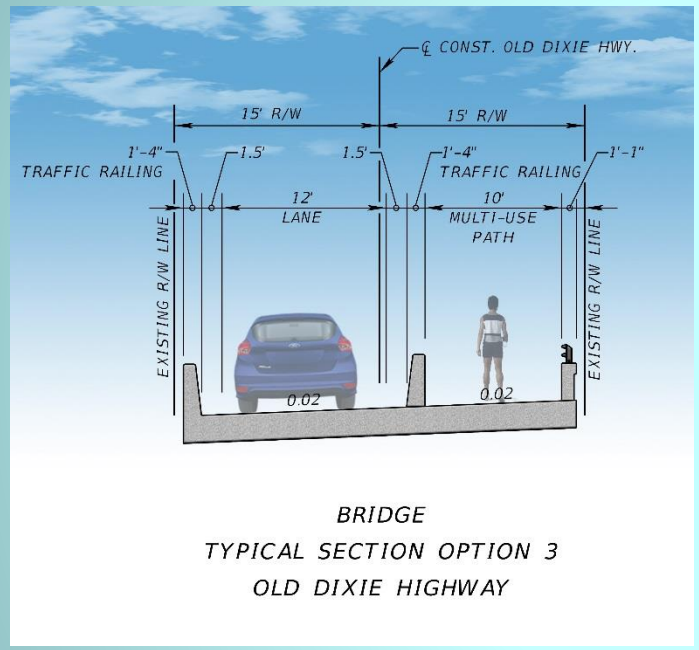
BRIDGE
TYPICAL SECTION OPTION 2
OLD DIXIE HIGHWAY



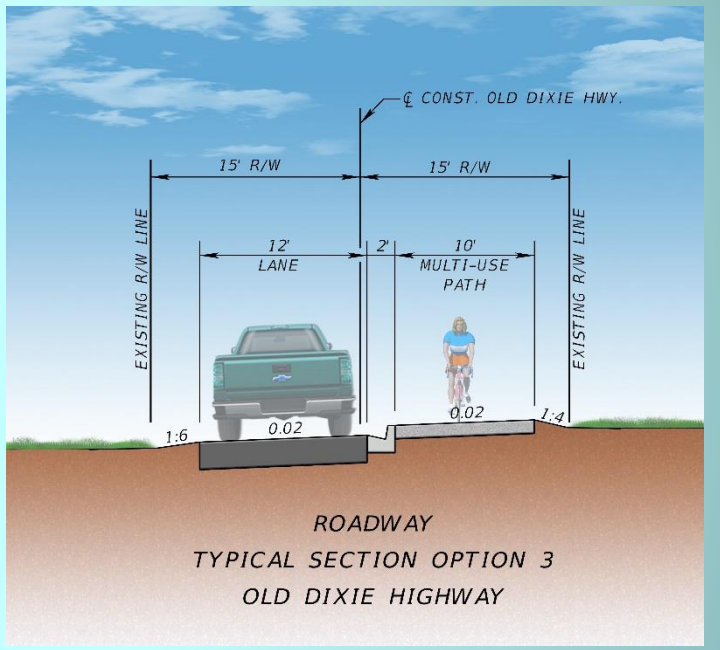
ROADWAY
TYPICAL SECTION OPTION 2
OLD DIXIE HIGHWAY

- "Minimum of the Minimum"
- Restores Existing Conditions
- Minimal Right-of-Way Acquisition Required (approximately 0.25 acres)
- Does Not Eliminate the Blind Intersection at Old Dixie Highway and U.S. Highway 1
- Estimated Cost $2,500,000 (includes $200,000 for utility relocations)

OPTION 3 – ONE-WAY BRIDGE WITH EAST COAST GREENWAY TRAIL



BRIDGE
TYPICAL SECTION OPTION 3
OLD DIXIE HIGHWAY



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- Establishes the East Coast Greenway on the Bridge and Old Dixie Highway
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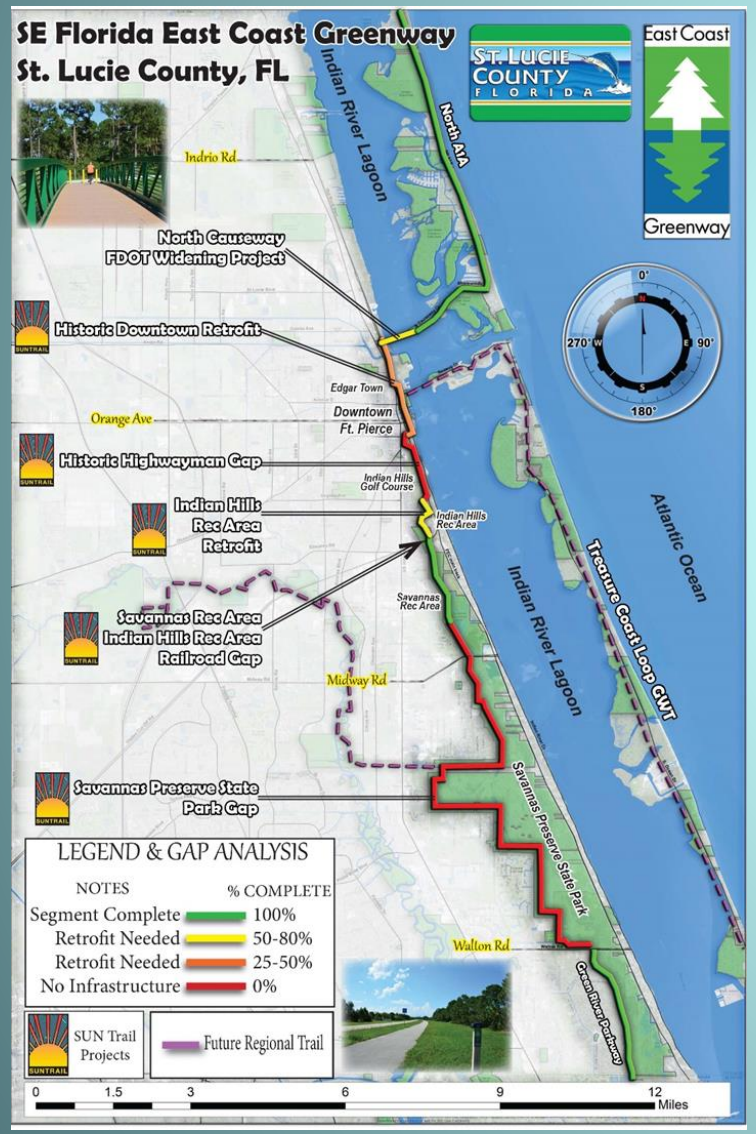
EAST COAST GREENWAY (ECG) TRAIL



- 3,000-Mile Greenway Trail
- 15 States, 450 Cities
- Maine to Key West
- 10-12’ Wide - Paved Trail Surface
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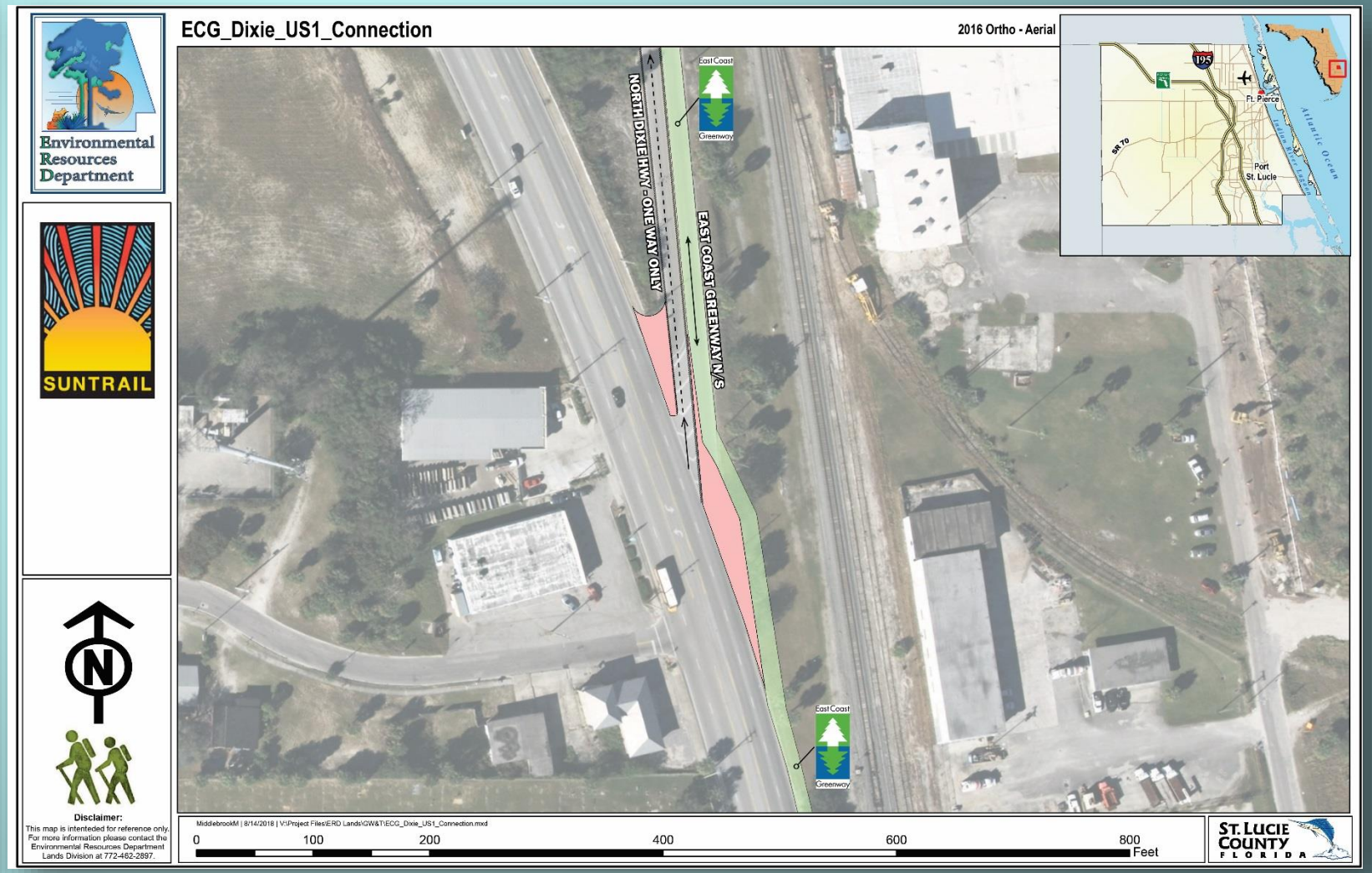
Local East Coast Greenway Projects



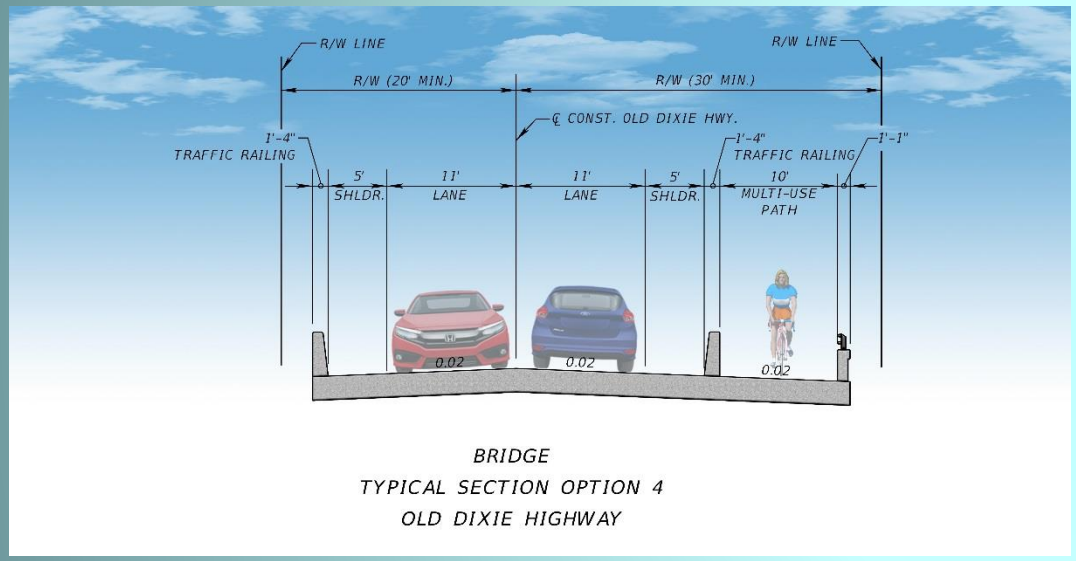
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EAST COAST GREENWAY & DIXIE HIGHWAY

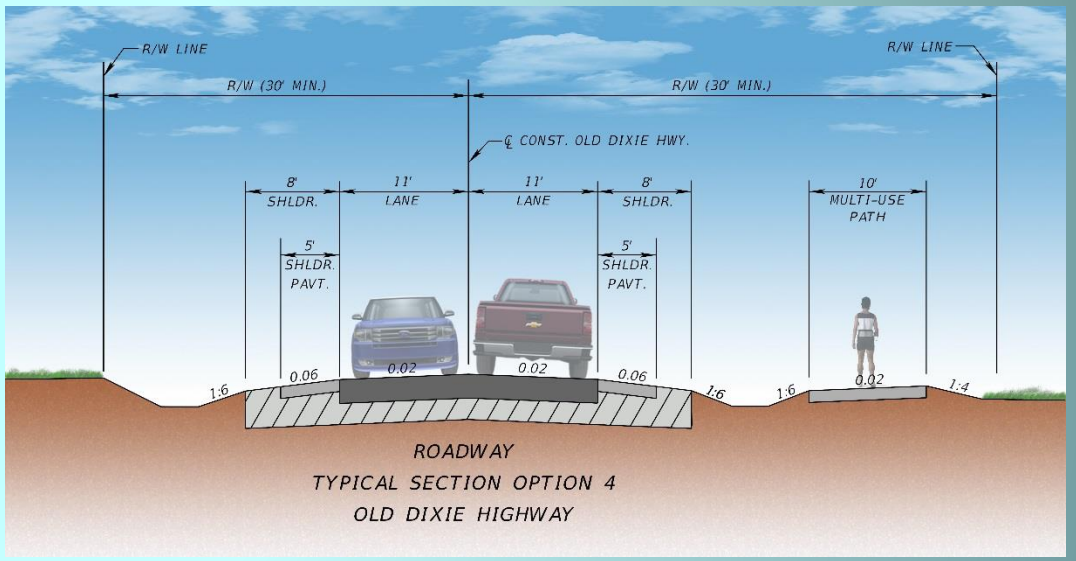




OPTION 4 – TWO-LANE BRIDGE WITH MULTI-USE PATH



BRIDGE
TYPICAL SECTION OPTION 4
OLD DIXIE HIGHWAY



ROADWAY
TYPICAL SECTION OPTION 4
OLD DIXIE HIGHWAY

- Brings Alignment into Current Standards
- Maintains Two-Way Traffic
- Significant Right-of-Way Acquisition Required (approximately 0.77 acres)
- Does Not Eliminate the Blind Intersection at Old Dixie Highway and U.S. Highway 1
- Estimated Cost $4,600,000

FUNDING OPTIONS

- Capital Improvement Funds
- Half Cent Sales Tax Referendum
- Highway Bridge Replacement and Rehabilitation Program (Federal HBRRP)

Option 1 – Removal of the Existing Bridge	$1,030,000
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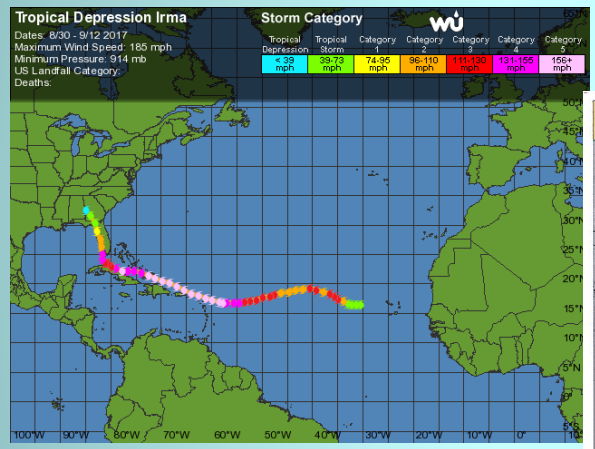
(*note $300,000 Available from FDOT for Design of ECG/Multi-Use Components)

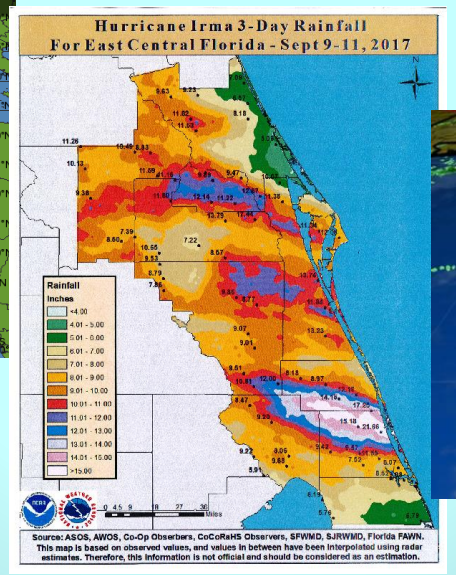
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  - Apply for Federal/ State Construction Funding


Juanita Ave
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N Federal Hwy
Old US Hwy 1
Sunny Ln
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Harbortown Dr

Old Dixie Highway Bridge over Taylor Creek







CITY OF FORT PIERCE – CITY COMMISSION
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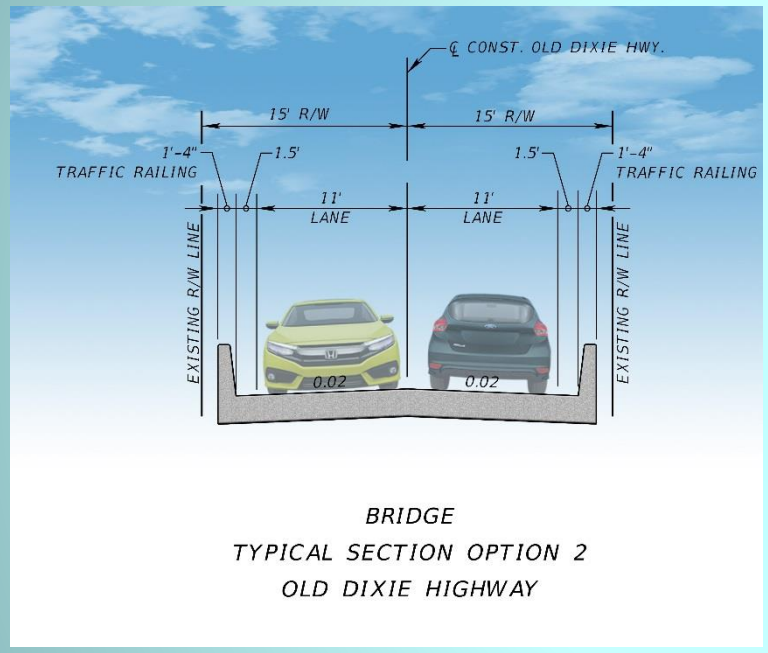
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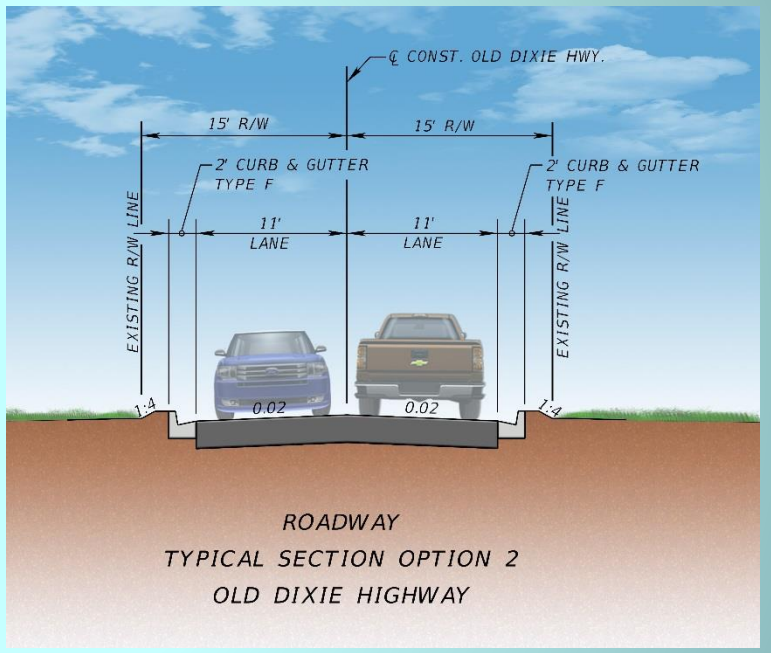
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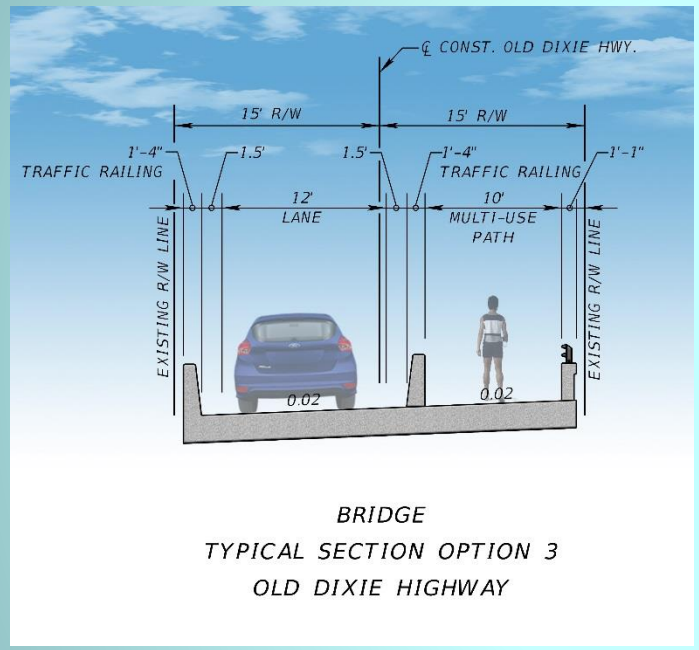
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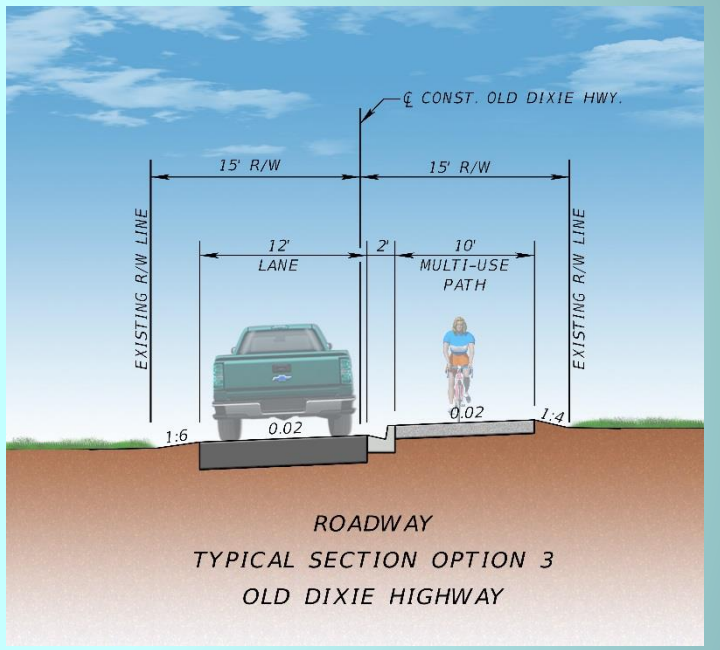
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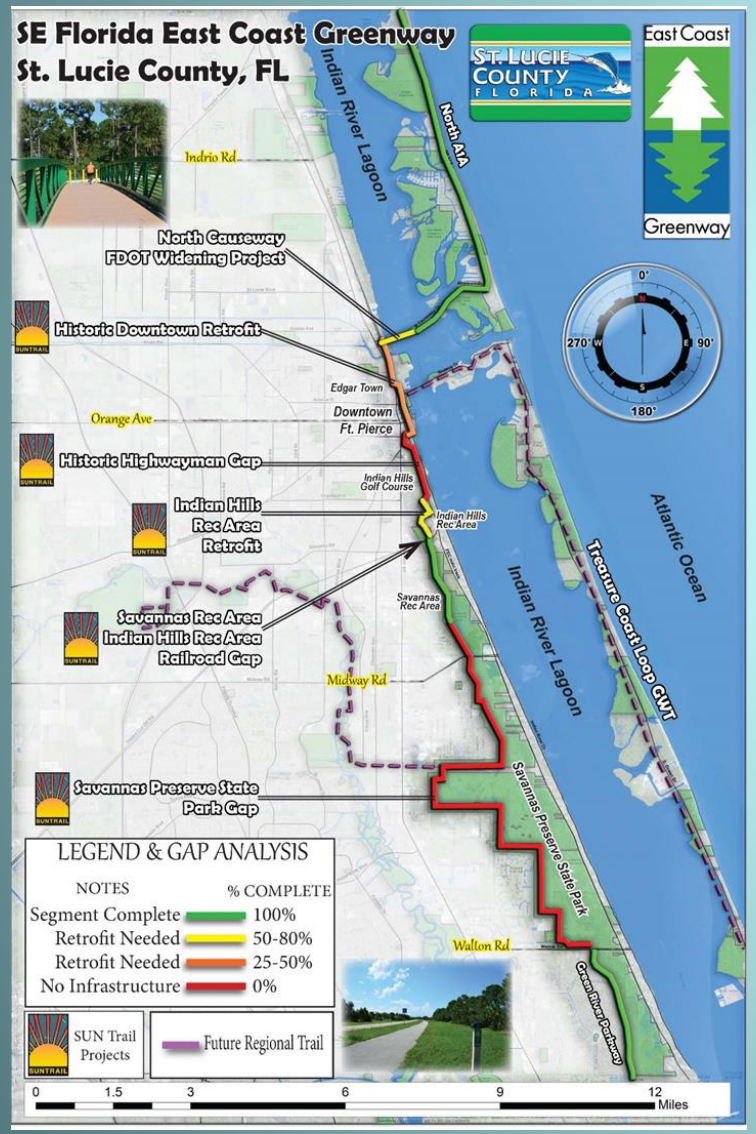
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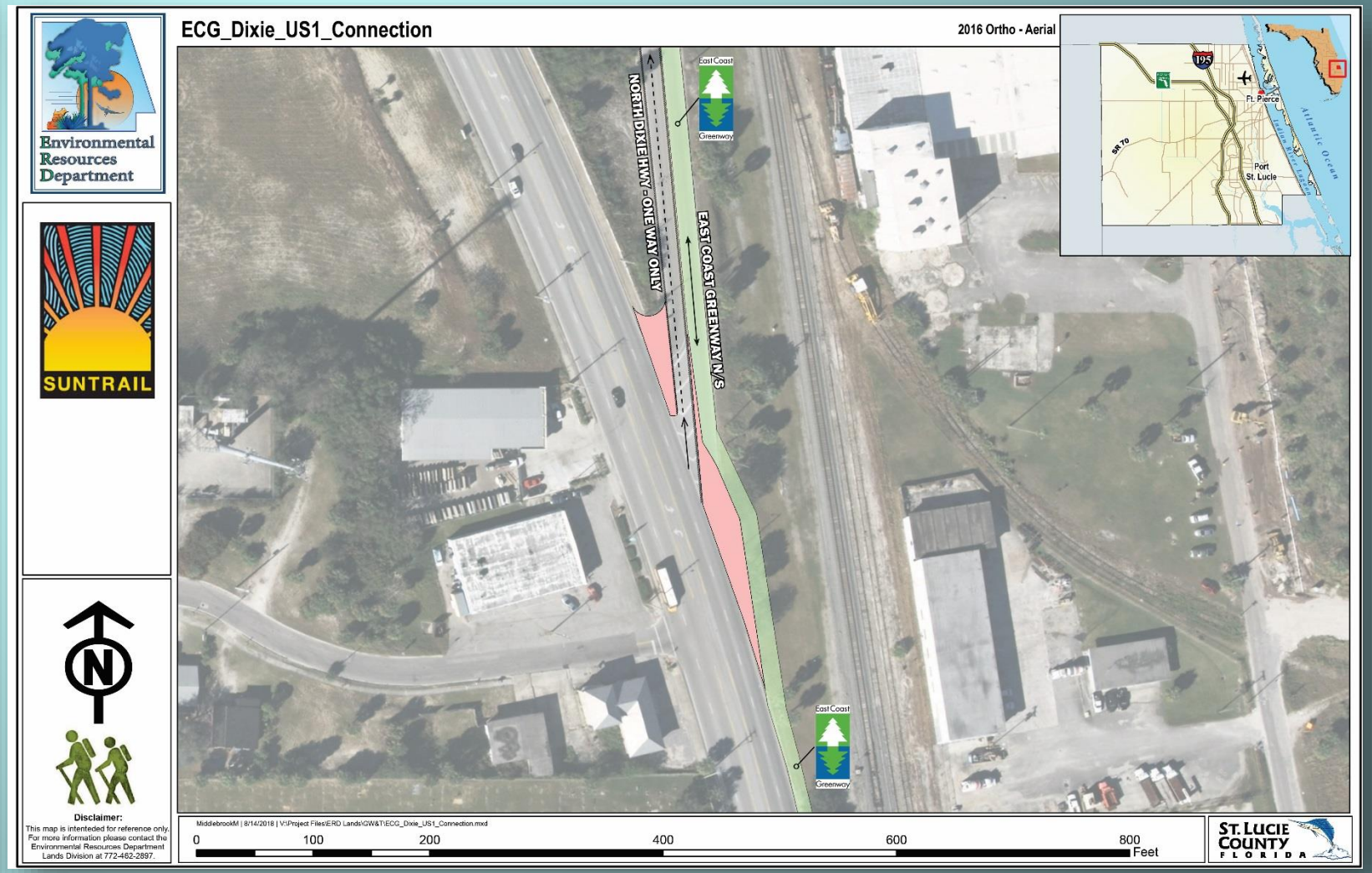
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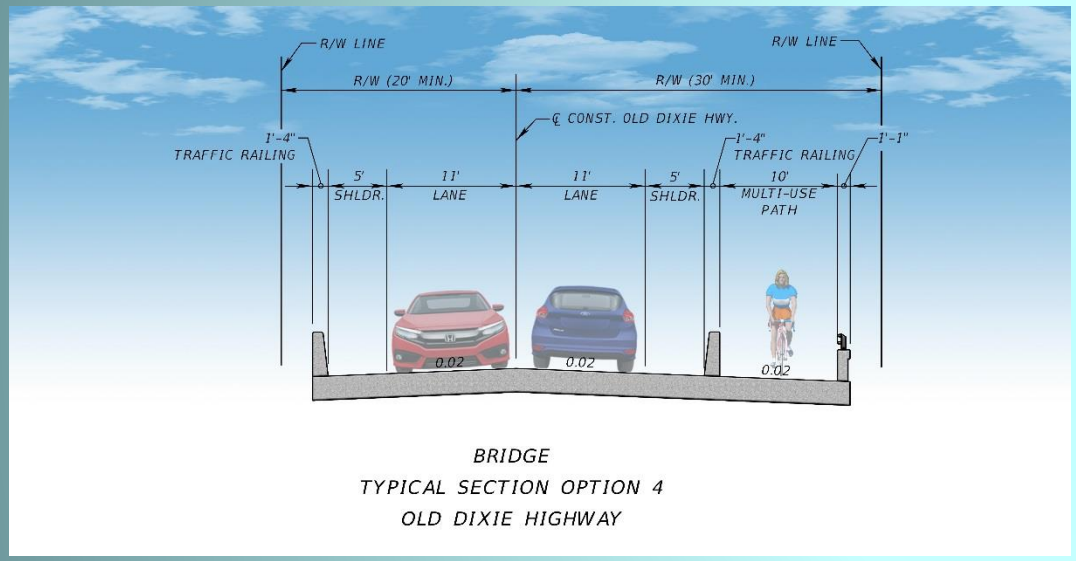
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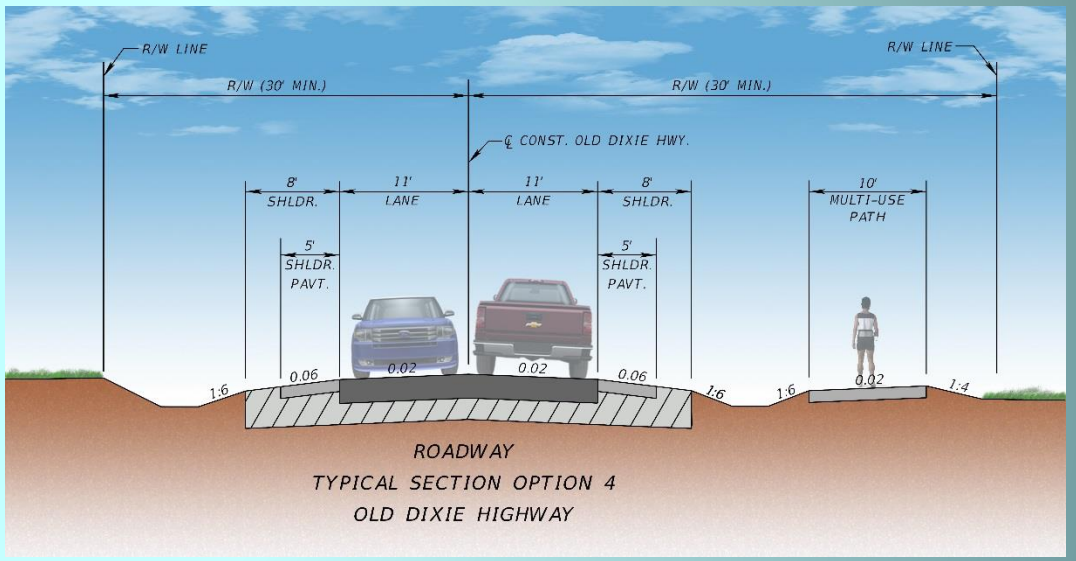




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City Commission Regular Meeting **10.b.**

Meeting Date: 12/17/2018

Re: FPUA Quarterly Status Report

Submitted For: Nick Mimms, City Manager, City Manager

SUBJECT:

Fort Pierce Utilities Authority Quarterly Status Report by John Tompeck, Utilities Director

Attachments

Presentation

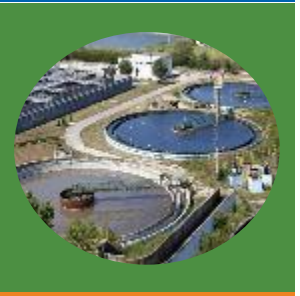
Form Review

Inbox	Reviewed By	Date
City Manager	Nick Mimms	12/11/2018 08:27 AM
City Manager	Nick Mimms	12/11/2018 08:27 AM

Form Started By: Jennifer Robinson Started On: 11/26/2018 04:36 PM

Final Approval Date: 12/11/2018







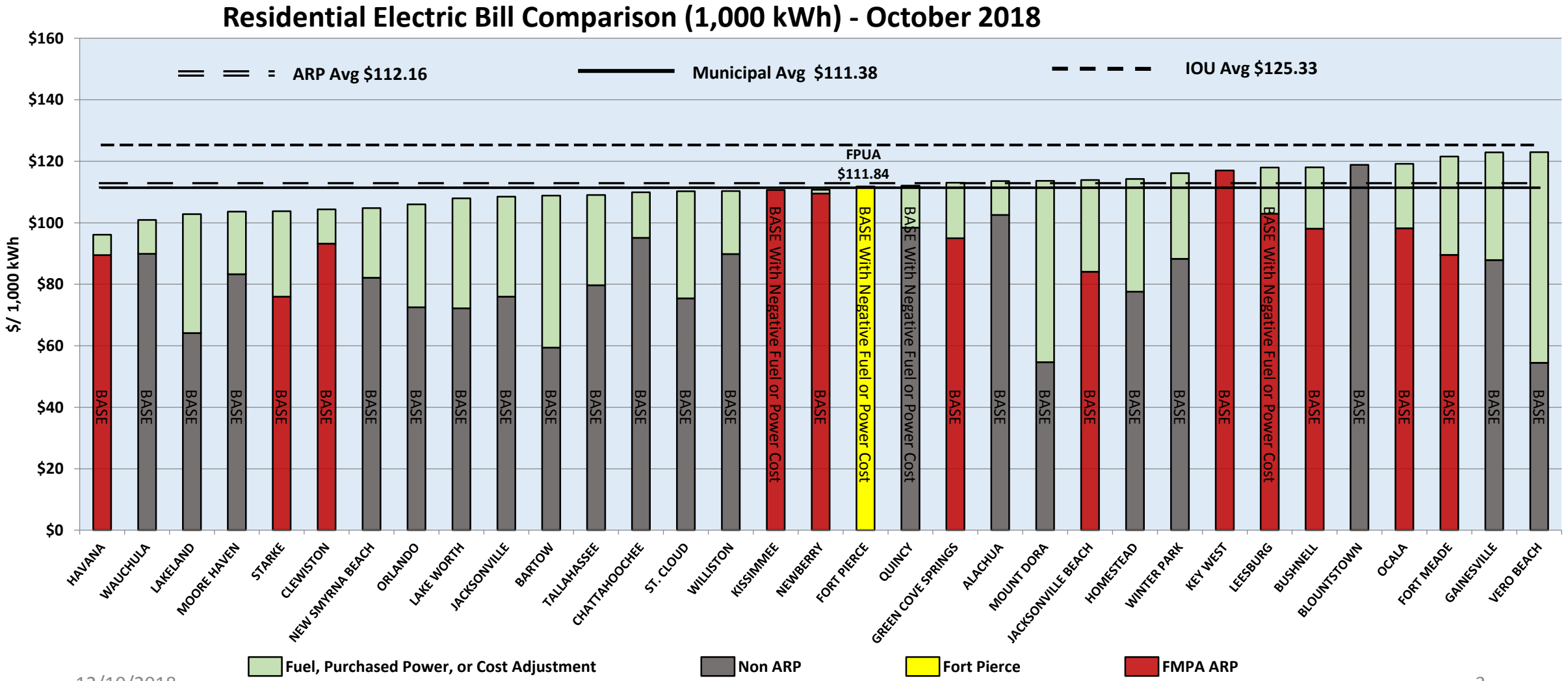
FPUA
COMMUNITY PROUD

Presentation to the Fort Pierce City Commission
December 17, 2018

Discussion Items

- Strategic Planning Update
- Water/Wastewater Issues and Regionalization
- Miscellaneous Items
  - CNG Filling Station
  - Solar Project
  - AMI
  - Port Developments

Key Result Area (KRA)-Electric Rates



KRA-Rates-Analysis

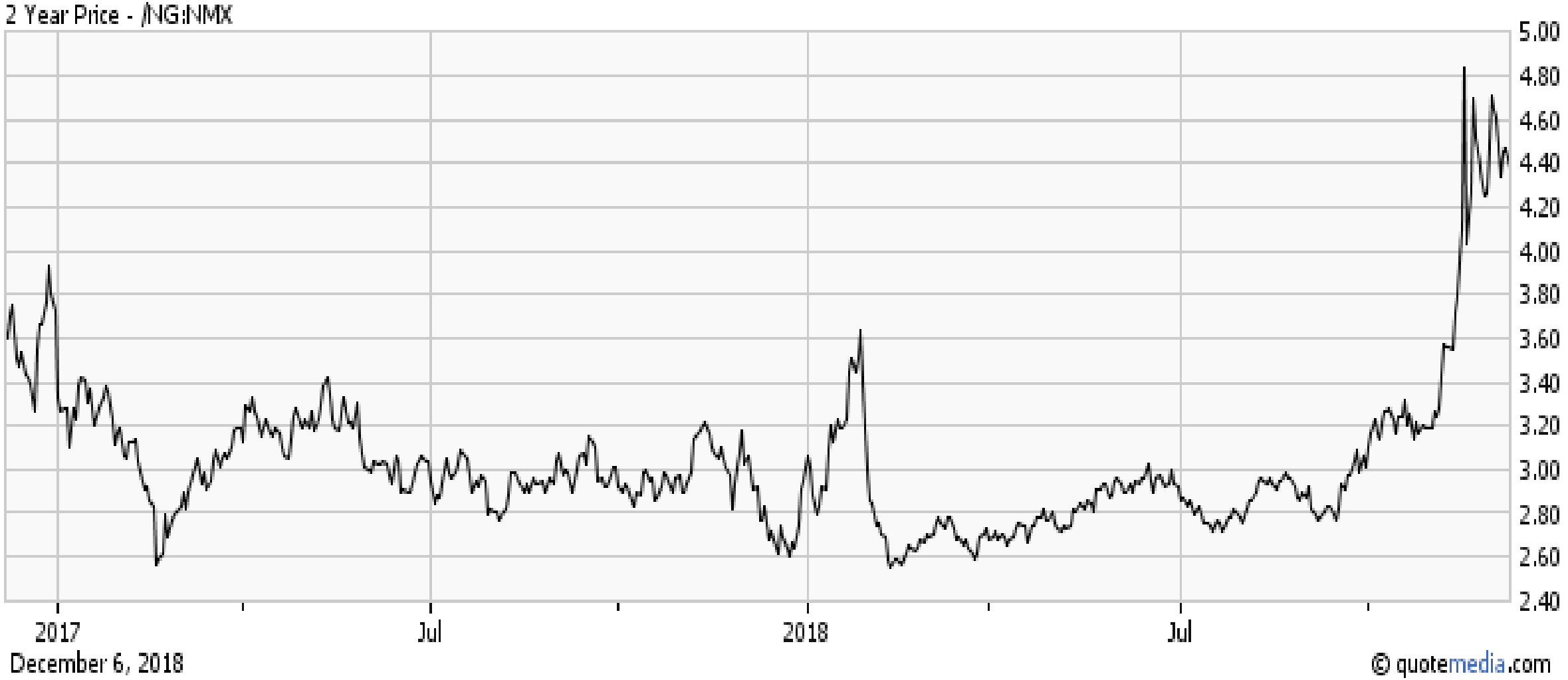
FMPA Control (68%)

- Rates fixed by FMPA Board on yearly basis
  - Board Representation
- Fuel Pricing

FPUA Control (32%)

- Load Factor Improvement
- Reduce System Losses
- Effective Budgeting
- Reduce FPUA Energy Costs
  - Energy Efficiency
  - Off Hour Production

KRA-Rates-Natural Gas Impact



Key Result Area Rates-Comparison

Treasure Coast Utility Bill Comparison October 2018								
			Total Utility Bill *					
Utility	Consumption		Fort Pierce	Fort Pierce**	Port St. Lucie**	St. Lucie County***	City of Vero Beach	Martin County***
Electric	1,000	kWh	$119.55	$106.87	$113.35	$103.34	$133.48	$104.58
Water	6,000	gallons	$39.89	$39.89	$37.49	$46.26	$31.77	$30.63
Wastewater	6,000	gallons	$49.66	$49.66	$62.49	$66.15	$38.20	$44.23
Totals			$209.10	$196.41	$213.33	$215.75	$203.45	$179.44

* Total utility bill amounts include all taxes, fees and charges and have been verified to actual utility bills for homes with average electric, water and sewer usage.

** Electric service is provided by FPL.

*** Electric service in this comparison for St. Lucie County and Martin County is provided by FPL.
SLC Utilities and Martin County Utility customers pay no utility tax or fees.

KRA-Reliability

- Electric Reliability is very good-above industry benchmarks
  - Installing “trip savers” to cut down on outages-Procurement issues in obtaining devices
  - Continuing aggressive tree trimming program
  - Increased animal deterrent measures
  - Replacement of aging infrastructure

- Water/Wastewater projects
  - WRF emergency backup power-project proceeding-may be slightly delayed due to late equipment delivery
  - Wastewater piping lining-on-going program-Averaging ~ 2 miles per year. 25 miles (of 110 miles) have been lined
  - Aggressive capital improvement program has increased the reliability of the water plant and Repump stations

KRA-Building the Utility, Building the City

- WRF Relocation-Orange Avenue 16” Force Main-Engineering Complete-5 month construction-will start in March, 2019

- Customer Expansion Project (SE of Edwards and 25th)-Surveys complete, plans 95% complete, Construction will start in March or April after completion of Iroquois MSBU

- Natalie's (DiGiorgio Road)-In initial design-awaiting final easements, working on supply agreement

KRA-Employee Development and Satisfaction

- Professional Development Program-In progress
- Succession Planning-On-going
- Incentive Pay Program-Program formalized and being implemented
- All critical positions are staffed
- FPUA named one of the “Best Places to Work” in St. Lucie County

KRA-FPUA Image-Weatherization Education Outreach Program (WEOP)

- Program initiated in 2013-Funded by FPUA and the City
- Funding has steadily increased from original $75K/yr to current level of $145K-future plans are to continue to increase funding
- Working with Centro Campisano Farmworker Center and SELF for work beyond our scope
- Extremely successful “grass roots” program that is lowering the cost of utilities to the people who need the help most

FPUA Image-WEOP-Program Funding

• 2013	9 Homes	FPUA Budgeted	$55,000	Dispersed $14,033
		City Ft. Pierce	$13,331	Dispersed $13,331
• 2014	17 Homes	FPUA Budgeted	$55,000	Dispersed $49,552.34
		City Ft. Pierce	$	
• 2015	9 Homes	FPUA Budgeted	$55,000	Dispersed $35,771
		City Ft. Pierce	$20,000	Dispersed $20,000
• 2016	25 Homes	FPUA Budgeted	$55,000	Dispersed$52,810
		City Ft. Pierce	$20,000	Dispersed $20,000
• 2017	23 Homes	FPUA	$100,000	Dispersed $91,718.45
		City Ft. Pierce	$20,000	Dispersed $20,000

83 Homes Total Dispersed $305,215.79

FPUA Image-WEOP Services

- Funding Per Home $5,000
- Services provided:
  - New water heater electric or gas $1,900
    - Electric/plumbing code violation(s)
  - Exterior Doors: $1,031
    - Door $297
    - Plus Knob $25
    - Labor $600
    - Permit $110
  - Window Panes Replacement
  - Sealing Window/Doors & Removal of security and screened doors
  - Insulation Upgrades $600
    - No insulation for flat roofs

FPUA Image-WEOP-Additional Services

- HVAC Tune Up
- Programmable Thermostat
- Electrical Work
  - Code Violations, exterior LED lighting
- Plumbing Repairs
- LED Bulbs 8
- Low Flow Shower Heads
- Faucet Aerators

KRA-FPUA Image

Goal is to improve our image to the community

- Increase outreach to the community through Facebook and other social media
- On-line commercials, radio and print public relations
- Increased informational presentations at Board meetings for topics of interest to the public
- Participate and sponsor Sunrise Spotlight
- New logo
- Preparing for a facelift at Admin building which will blend in with PAD vision

FPUA Image-Community Contributions

- **Civic Stewards**
  - **Manatee Center**
  - **WEOP Program**
  - **Community Sponsorships**
    - United Way Corporate Partner
    - Boys & Girls Club
    - Mustard Seed
    - Restoring The Village
    - Great American Cleanup - Keep Fort Pierce Beautiful
  - **Civic Organizations**
    - Kiwanis & Rotary
    - Florida Engineering Society – Treasure Coast
    - American Water Works Association – Region 8
    - Florida Water Environment Association – Treasure Coast

- ***Employee Sponsored***
  - **Stuff The Bus**
    - Since 2009, average of 80 backpacks stuffed with pencils, paper, glue, etc.
  - **Christmas Angels**
    - Since the 1990's, average of 20 angels each year
  - **Food Drives**
    - Since 2001, over 39,000 lbs. donated
  - **Volunteerism**
    - FPUA staff volunteered over 2,000 hours of personal time to more than 120 organizations

KRA Customer Service-Business Development

- As part of Strategic Plan added a Business Development Officer position to our staff
- Developing business portfolio for all potential customers so they understand all upfront costs
- Working closely with the EDC to identify new opportunities and aggressively pursue them
- Have developed economic incentive rates and other business friendly incentives for potential new business

Water/Wastewater Issues

- 2 separate but related issues being discussed-Bulk Agreement and Regionalization
- Bulk Agreement developed in 2004, designed to identify service areas between FPUA and the County and establish additional parameters for operation.
- Issues associated with Bulk agreement include
  - Rates-Water and Wastewater
  - Capital Improvement Charges
  - Annexation Issues
  - Technical Issues
  - Flushing Credits
  - Mainland Water Reclamation Facility

Water/Wastewater Issues-Status

- Rates-Water and Wastewater-Agreement in principle pending rate consultant report on evaluation of rate structure.
- Capital Improvement Charges-Agreement in principle that current program does not work-Discussion on how to develop CICs in the future is on-going
- Annexation Issues-No discussion on this item-City decision
- Flushing Credits-Agreement in principle-working on implementation plan
- Mainland Water Reclamation Facility-Far apart on this issue-Evaluating possibility of independent consultant review.
- Technical issues-Minor disagreements which will be worked out

CNG Filling Station



← Compressor Station

Fuel Dispensers →



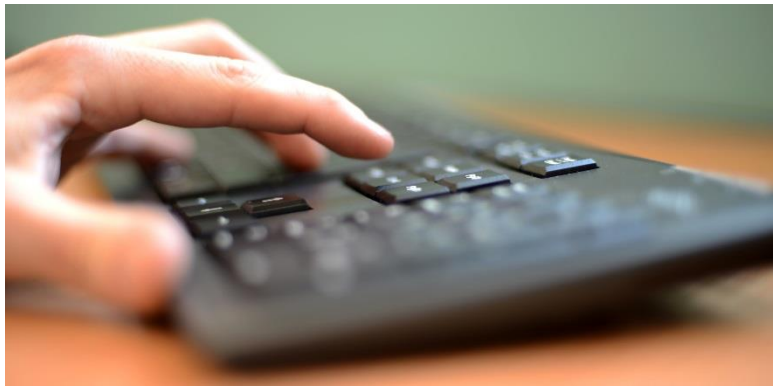
What is Advanced Metering Infrastructure (AMI) ?

US Department of Energy

"Smart Grid generally refers to a class of technology that people are using to bring utility delivery systems into the 21st century, using computer-based remote control and automation. These systems are made possible by two-way communication technology and computer processing that has been used for decades in other industries."

"Much in the way that a "smart" phone these days means a phone with a computer in it, smart grid means "computerizing" the utility grid."

So What is AMI?





- Completely Automated Process
- Two way communication on a Daily Basis to Field Cash Registers
- Requires all Electronic Meters
- Improved Efficiency
- Real time field information

AMI-Benefits to FPUA

- Improved Outage Detection
  - Customer information flow
  - Ability to provide real time information to County EOC
- Real time engineering analysis
  - Controlling our losses
- Leak Detection
  - Inform before they receive their bills
- Proactive Maintenance
- Remote Reconnect/Disconnect
  - Same day turn On/Off
- Tamper Protection
  - Increased detection and fees associated with it
- Customer service inspection program
  - Help reduce potential electrical and fire hazards
  - Work with local electricians on repairs

AMI-Benefits to Customers

- Proactive Customer Service
  - Customer Service Technicians
- Variety of New Payment Options
    - Pay as you Go
    - TOU
    - Flexible Billing Schedules
    - Eliminate Large Deposits
- Customer Information Portal
- Customer control of Energy Usage
  - Control their Bill
  - Trending analysis

AMI-Implementation

- System Wide
  - Integration with existing CIS, GIS, and OMS Systems

- Electric
  - Replacement of Entire Meter
- Water
  - Exchange of meter register
    - Retrofit existing meter
    - Order with standard meter replacements
- Gas
  - Exchange of meter register
    - Retrofit existing meter
    - Order with standard meter replacements

AMI-Progress to Date

- Request for Proposal (completed)
- Vendor Selection (completed)
  - 7 vendor proposals considered
  - 3 vendors were chosen for final presentations
    - Landis & Gyr
    - Core & Main/Sensus
    - Honeywell/Elster

- Honeywell Chosen as AMI Provider

AMI-Next Steps

- Identify Pilot Area
  - Approx. 1000 electric, 20 water and 20 gas meters
- Negotiate Terms of Contract
- Solidify Costs
- Determine an implementation schedule
  - Proposed in the budget (20% Year over 5 Years)
    - Begin Infrastructure in FY19
    - Electric FY19 - FY23
    - Gas FY20 - FY24
    - Water FY20 - FY24

AMI-Project Cost

- Total Project Cost $10 - $12 Million
  - Infrastructure - $7 Million
    - Includes New Electric Meters
    - Includes New ERT Modules for Water and Gas
  - Meter Replacement - $3 Million
    - Internal $2 Million
    - External $1 Million

Solar Project

- Florida Municipal Solar Project is a joint project of 12 Florida municipal utilities working together
- 223.5 megawatt project consists of 3-74.5 megawatt sites which is the equivalent to 37,250 rooftop solar systems
- The Builder/Owner/Operator is NextEra Florida Renewables
- ~900,000 solar panels will be installed on 1200 acres-will be enough to power 45,000 homes
- The solar farms will be in Orange and Osceola Counties
- Expected to be on line in 2020.

Solar Project

- FPUA participating in the project through the All-Requirements Project
- Cost of electricity from the solar farms is fixed for 20 years- slightly higher than current rates
- Evaluating “subscription” rates for interested customers
- Solar farms much more efficient and economical than rooftop installations.

Port Projects

- Working with two groups
  - L Lee/S Woods group
  - Derecktor-Group chosen by the County

- L Lee/S Woods Group-Have met with them several times-working through details of providing power and water to the site

- Derecktor-Had initial meeting with Mark Donahue-Waiting on them to sign a lease before proceeding

City Commission Regular Meeting **11.a.**

Meeting Date: 12/17/2018

Re: Approval to Award General Planning Services Continuing Contract RFQ 2018-054

Submitted For: Rebecca Grohall, Director, Planning & Zoning

SUBJECT:

Request approval to award General Services Continuing Contracts with the two (2) firms, S & ME and NZ Consultants, on a project by project basis, ranked highest as a result of RFQ 2018-054.

SUMMARY:

RFQ 2018-054 was issues to solicit for General Planning Services for various projects including but not limited to the Evaluation and Appraisal Report (EAR), an update to the CRA Master Plan and technical assistance in Development Review. The City received five proposals today. After careful review and ranking, a committee comprised of Public Works, City Clerk, Finance and Purchasing came to the concensus to awrd the RFQ to S & ME and NZ Consultants as the two highest ranked firms. Both firms will be considered on a project by project basis for projects.

RECOMMENDATION:

Approve entering into Professional Services Continuing Contracts with two firms: S & ME Inc and NZ Consultants following the City Attorney's review of the contract for form and correctness.

ALTERNATIVES:

To discard all proposals and solicit again.

RESPONSIBLE STAFF:

Rebecca Grohall,AICP

COORDINATED WITH:

Gelencia Carter, Purchasing Manager
Linda Cox, City Clerk,
Karen Logue, Chief Accountant
Mike Reals, Public Works Director

Fiscal Impact

Budgeted Y/N: Y

Fiscal Year: 2019

OTHER INFORMATION:

Projects budgeted in FY2019

Attachments

Memo to Purchasing to Award

Form Review

Inbox	Reviewed By	Date
City Manager	Rebecca Grohall	11/21/2018 01:44 PM
City Manager	Nick Mimms	12/12/2018 11:47 AM

Form Started By: Rebecca Grohall Started On: 11/21/2018 01:42 PM

Final Approval Date: 12/12/2018

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

TO: Gelencia Carter, Purchasing Manager
Johnna Morris, Finance Director

FROM: Rebecca Grohall, AICP Planning Director

RE: Recommendation to Award RFQ 2018-054

DATE: November 21, 2018

A Committee comprised of representatives from Public Works, City Clerk, Finance and Purchasing Department reviewed the five proposals received.

After careful consideration, the Committee reviewed and ranked each of the proposals. The consensus was to award the RFQ for General Planning Services to two firms: S & ME, and NZ Consultants.

I respectfully request that this item be forwarded to City Commission for the December 3, 2018, meeting.

SUBMITTAL REQUIREMENT CHECKLIST

RFQ NO. 2018-054 ~ GENERAL PLANNING SERVICES

	VENDORS				
SUBMITTAL REQUIREMENTS	**CIVIL SURV**	**COTLEUR & HEARING**	**NZ CONSULT.**	**O'ROURKE**	**S &ME**
APPRAISAL REPORTS	Y		Y		Y
ARCHITECTURE		Y	Y		Y
COMPREHENSIVE PLANNNING (including evaluation)	Y		Y	Y	Y
CODE DRAFTING Revised by Plan Dir.	Y	Y	Y	Y	Y
CRA	Y		Y	Y	Y
DEVELOPMENT REVIEW	Y		Y	Y	Y
ECONOMIC IMPACTS	Y		Y	Y	Y
GIS ORDINANCE	Y		Y		Y
LANDSCAPE ARCHITECTURE	Y	Y	Y	Y	Y
MARKET ANALYSIS		Y		Y	Y
PLANS	Y	Y	Y	Y	Y
PUBLIC OUTREACH /ENGAGEMENT	Y			Y	Y
REFERENCES	Y	Y	Y	Y	Y
SITE PLANNING	Y	Y	Y	Y	Y
TRANSPORTATION PLANNING	Y	Y		Y	Y
URBAN DESIGN	Y		Y	Y	Y
URBAN PLANNING	Y		Y	Y	Y

Y ~ YES **N ~ NO** **I ~ INCOMPLETE** **N/A ~ NOT APPLICABLE**

City Commission Regular Meeting **11.b.**

Meeting Date: 12/17/2018

Re: Approval of Minor Site Plan Modification - S. R. Bacher Enterprises, LLC - 3180 S Jenkins Rd.

Submitted For: Rebecca Grohall, Director, Planning & Zoning

SUBJECT:

Notification of a Minor Amendment to the Planned Development Site Plan for the KOA Campground owned and operated by S. R. Bacher Enterprises, LLC located 3180 S Jenkins Rd, Fort Pierce, FL.

SUMMARY:

The original site plan was approved March 19, 2018, as part of a Planned Development. The Planned Development for a KOA campground, to be completed in three (3) phases, features 197 pull-through RV lots and 126 Back-in RV Lots, a 6,000 sq. ft. administration building with support services and a collection of recreational amenities. The changes requested all meet the criteria of a Minor Site Plan adjustment. The adjustments approved include:
1. A Propane Fill Station in vicinity of maintenance area
2. Updated Amenity Area with the final floor plan of the Administration building
3. Added final details for the pool/patio layout
4. ADA Accessibility imrovements to replaced standard pull through stalls with ADA compliant pull through stalls immediately south of the central lake; and the addition of an accessible path from ADA compliant pull through stalls to administration/recreation area.
The Planning Department has approved these minor revisions In accordance with Sec. 22-58(i) of the City's Code of Ordinances.

RECOMMENDATION:

Acceptance of the Staff Approval

ALTERNATIVES:

Do not accept the Staff Approval

RESPONSIBLE STAFF:

Rebecca Grohall, AICP

COORDINATED WITH:

Brandon Creagan
Technical Review Committee

Fiscal Impact

Budgeted Y/N: N

Fiscal Year: 2019

OTHER INFORMATION:

N/A

Attachments

Approved Minor Amendment to the Site Plan

Form Review

Inbox	Reviewed By	Date
City Manager	Rebecca Grohall	12/05/2018 03:31 PM
City Manager	Rebecca Grohall	12/05/2018 03:56 PM
City Manager	Nick Mimms	12/12/2018 11:46 AM

Form Started By: Rebecca Grohall Started On: 12/05/2018 01:40 PM

Final Approval Date: 12/12/2018

MINOR REVISION
SITE PLAN APPROVAL
CITY OF FORT PIERCE, FLORIDA
☑ APPROVED
☐ APPROVED W/CONDITIONS
☐ DISAPPROVED
DIRECTOR OF DEVELOPMENT
DATE 12/5/19

Planned Development
Minor Adjustment #1
Section 30, Township 35S, Range 40E
City of Fort Pierce, Florida

Applicant
S.R. Bacher Enterprises, LLC
1821 N. US Hwy 1
Fort Pierce, FL 34946

Civil Engineer
Stephen Cooper, P.E & Assoc., Inc.
1450 S. Federal Highway
Port Saint Lucie, FL 34952
P: 772.336.2933

Surveyor
EDC, Inc.
Engineers and Surveyors
10250 SW Village Parkway, Suite 201
Port Saint Lucie, FL 34987
P: 772.462.2455

Land Planner/Landscape Architect
Lucido & Associates, P.A
701 East Ocean Blvd.
Stuart, FL 34994
P: 772.220.2100

Architect
Brent A. Wood, Architect
20 SE Ocean Boulevard
Stuart, FL 34994



Sheet Index

Cover Sheet	
Site Plan	SP-1
Detail Sheets	SP-2 - SP-6
Aerial	SP-7
Landscape Plan	LA-1
Littoral Zone Plan	LA-2
Tree Mitigation Plan	LA-3
Specifications	LA-4
Details	LA-5

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Building Data

Gross Floor Area:	12,000 sf
Maximum Height:	35'
Proposed Height:	35'
Building Coverage:	40% Max.
Open Space:	20% Min.

Setback Data Table

Primary Structures: (Admin. bldg., Manager's Quarters)

	Minimum	Provided
Front:	25'	120'
Side:	20'	53'
Side to Corner:	20'	20'+
Rear:	15'	141'

Accessory Structures: (Workshop, amenities)

	Minimum	Provided
Front:	25'	129'
Side:	20'	362'
Side to Corner:	20'	20'+
Rear:	15'	1,241'

Site Data:

Existing Zoning:		R-4
Existing FLU:		RM
Proposed Zoning:		PD
Proposed FLU:		BC
Current Use of Land:		Vacant
Proposed Use of Land:		KOA Campground
Pull-thru Stalls:		196
Back-in Stalls:		127
Total:		323
Total Site Area:	2,441,563 sf. (mol)	56.05 Ac.(100%)
Impervious Area:	~~783,001 sf.~~	~~17.97 Ac.~~ (32%)
Building:	~~12,000 sf.~~	~~0.28 Ac.~~
Amenity:	~~25,713 sf.~~	~~0.59 Ac.~~
RV Area:	~~714,753 sf.~~	~~16.40 Ac.~~
Guest Parking & Entry:	~~30,535 sf.~~	~~0.70 Ac.~~
Pervious Area:	1,658,562 sf.	38.07 Ac.(68%)
Landscape & Open Area:	~~1,463,255 sf.~~	~~33.59 Ac.~~
Lakes:	~~195,307 sf.~~	~~4.48 Ac.~~
Total Site Area:	2,441,563 sf. (mol)	56.05 Ac.(100%)
Impervious Area:	848,389 sf.	19.47 Ac.(35%)
Building:	11,000 sf.	0.25 Ac.
Amenity:	28,901 sf.	0.66 Ac.
RV Area:	777,953 sf.	17.86 Ac.
Guest Parking & Entry:	30,535 sf.	0.70 Ac.
Pervious Area:	1,593,174 sf.	36.58 Ac.(65%)
Landscape & Open Area:	1,398,570 sf.	32.11 Ac.
Lakes:	194,604 sf.	4.47 Ac.

Parking Requirements:

Vehicular Parking Required:	20 Spaces
Commercial RV Park: 1 space per 300 sf @ 6,000 sf:	6 spaces.
* Parking Provided:	27 Spaces (Includes (2) Handicap Space)
Bicycle Parking Required:	3 Spaces
Comercial Use (Planned Development): 1 space per 10 Vehicle Stalls @ 27 Stalls:	3 space
Bicycle Parking Provided:	10 Spaces
Loading Zones Required:	0 Spaces

No Loading Spaces requred for buildings under 10,000 sf.

* Each Pull-Through and Back-In Stall accommodates RV and Car Parking

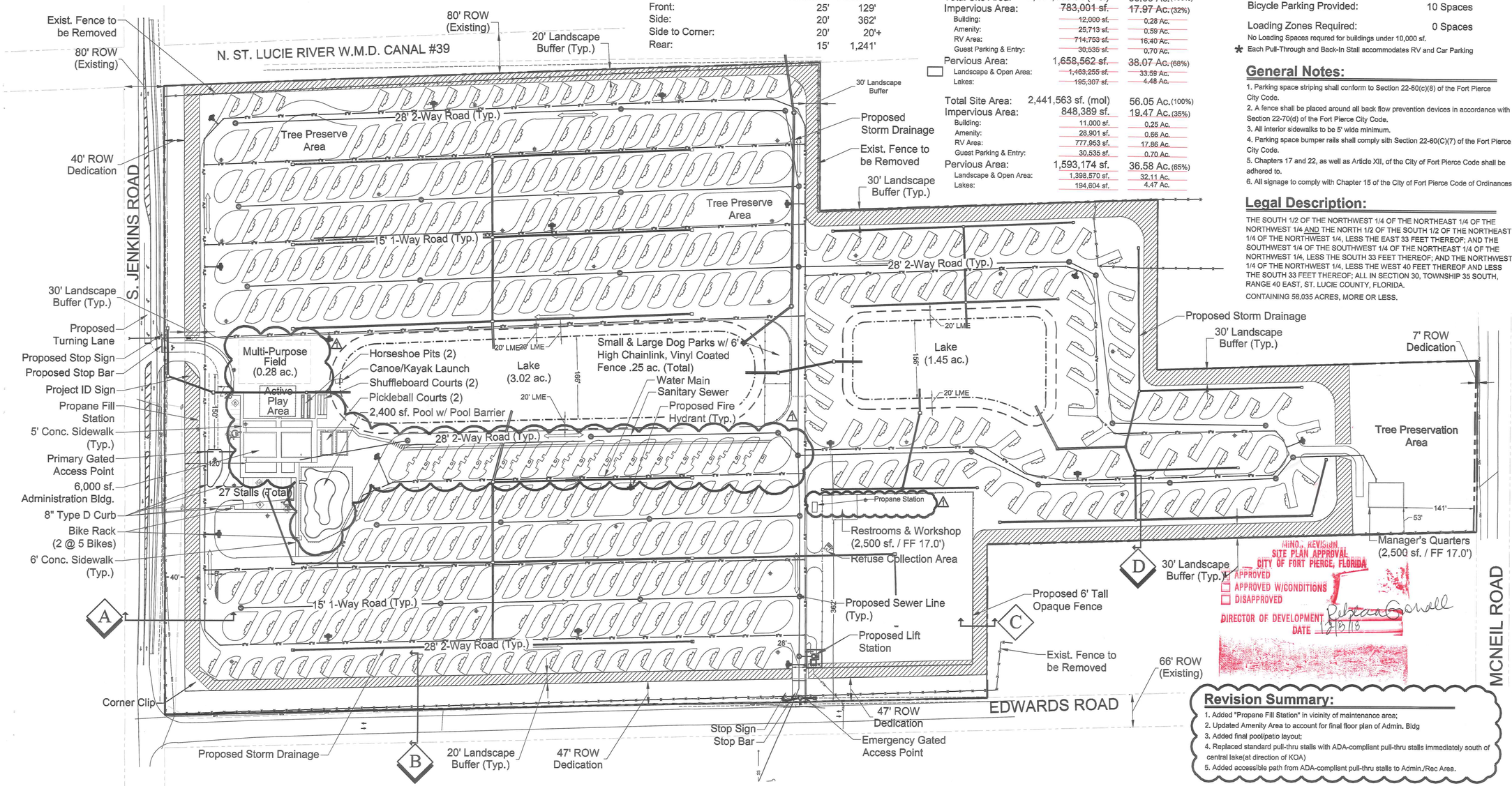
General Notes:

1. Parking space striping shall conform to Section 22-60(c)(8) of the Fort Pierce City Code.
2. A fence shall be placed around all back flow prevention devices in accordance with Section 22-70(d) of the Fort Pierce City Code.
3. All interior sidewalks to be 5' wide minimum.
4. Parking space bumper rails shall comply sith Section 22-60(C)(7) of the Fort Pierce City Code.
5. Chapters 17 and 22, as well as Article XII, of the City of Fort Pierce Code shall be adhered to.
6. All signage to comply with Chapter 15 of the City of Fort Pierce Code of Ordinances.

Legal Description:

THE SOUTH 1/2 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 AND THE NORTH 1/2 OF THE SOUTH 1/2 OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4, LESS THE EAST 33 FEET THEREOF; AND THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4, LESS THE SOUTH 33 FEET THEREOF; AND THE NORTHWEST 1/4 OF THE NORTHWEST 1/4, LESS THE WEST 40 FEET THEREOF AND LESS THE SOUTH 33 FEET THEREOF; ALL IN SECTION 30, TOWNSHIP 35 SOUTH, RANGE 40 EAST, ST. LUCIE COUNTY, FLORIDA.

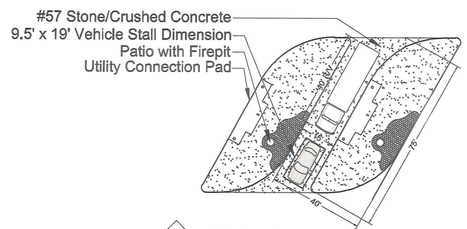
CONTAINING 56.035 ACRES, MORE OR LESS.



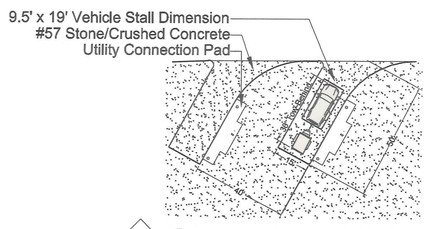
MINOR REVISION
SITE PLAN APPROVAL
CITY OF FORT PIERCE, FLORIDA
☐ APPROVED
☐ APPROVED W/CONDITIONS
☐ DISAPPROVED
DIRECTOR OF DEVELOPMENT
DATE 11/5/18

Revision Summary:

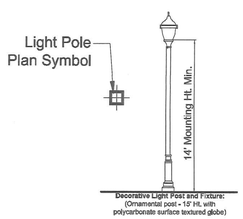
1. Added "Propane Fill Station" in vicinity of maintenance area;
2. Updated Amenity Area to account for final floor plan of Admin. Bldg
3. Added final pool/patio layout;
4. Replaced standard pull-thru stalls with ADA-compliant pull-thru stalls immediately south of central lake(at direction of KOA)
5. Added accessible path from ADA-compliant pull-thru stalls to Admin./Rec Area.



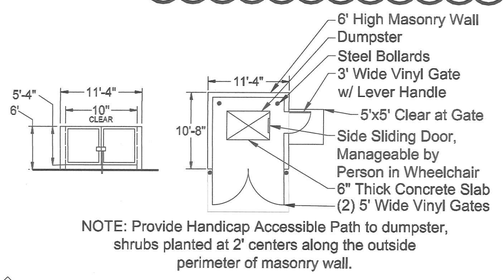
R/V Pull-Through Lots
Scale: 1"=30'



Back-In Lots (Camping, Cabin, Tow-Behind)
Scale: 1"=30'



Light Pole Detail
Scale: 1"=5'



NOTE: Provide Handicap Accessible Path to dumpster, shrubs planted at 2' centers along the outside perimeter of masonry wall.

Dumpster Detail
Scale: 1"=10'

lucido & associates
701 SE Ocean Blvd., Stuart, Florida 34994 (772) 220-2100, Fax (772) 223-0220

Key / Location:



N.T.S.

Project Team:

Applicant:	S.R. Enterprises, LLC 1821 N. US1 Fort Pierce, FL 34946
Land Planner / Landscape Architect:	Lucido & Associates 701 East Ocean Boulevard Stuart, Florida 34994
Legal Counsel:	W. Lee Dobbing, Esq. Dean, Mead, Minton & Zwimmer 1903 S. 25th Street, Suite 200 Fort Pierce, FL 34947

Jenkins Road KOA

Fort Pierce, Florida

Planned Development Site Plan Minor Adjustment #1

	Date	By	Description
	9.5.17	JJ	Initial Submittal
	10.10.17	DC	Resubmittal
	2.20.18	JJ	Resubmittal
	3.13.18	DC	Revisions per Client
	10.4.18	SAW	Revisions per Client
1	11.01.18	SAW	Minor Adjustments #1

NORTH

SCALE: 1" = 100'

0 50' 100' 200'

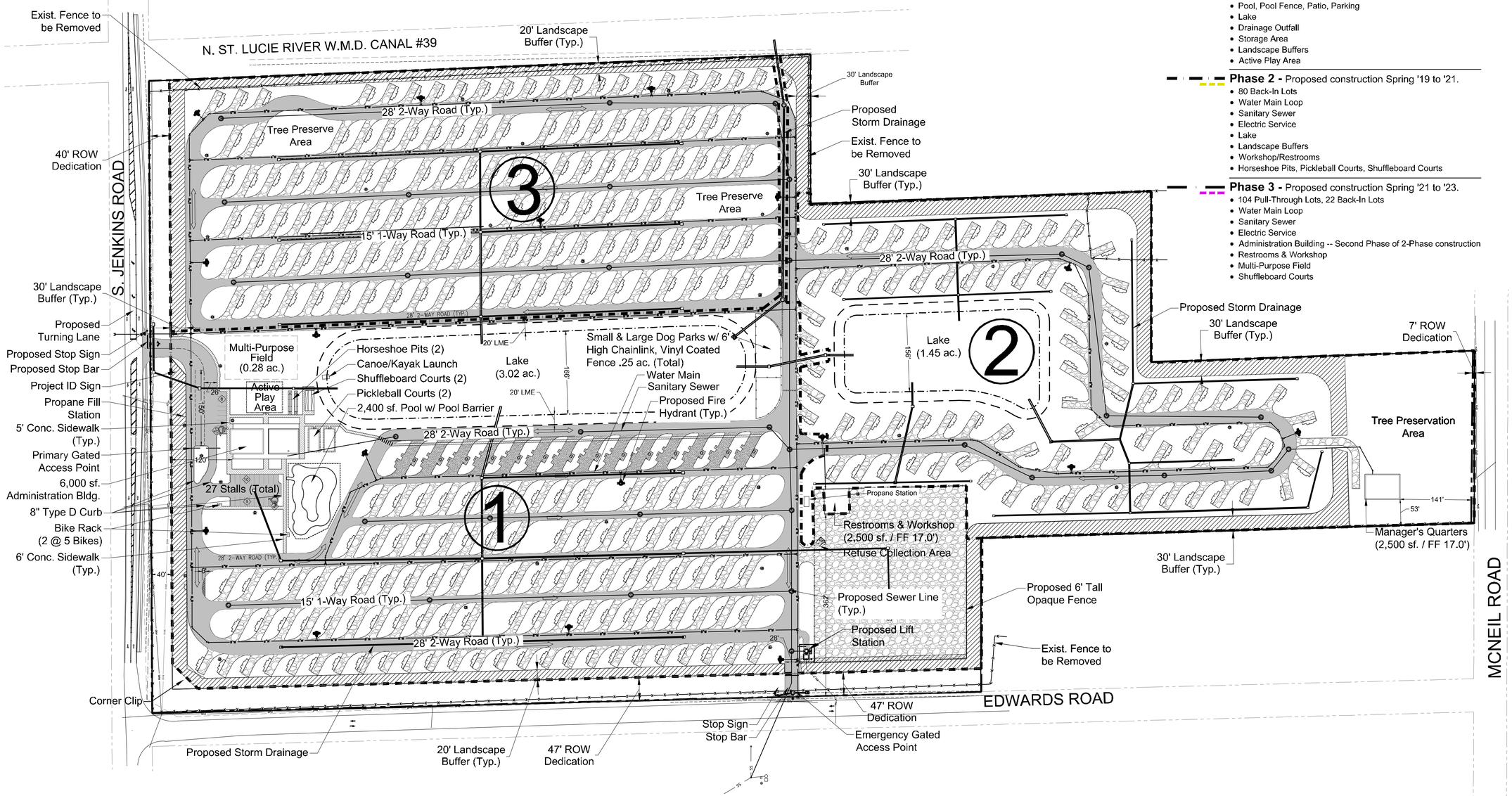
REG. # 1018
Thomas P. Lucido

Designer	JJ
Manager	BN
Project Number	17-445
Municipal Number	---
Computer File	17-446 Jenkins Road KOA - Minor Adjustment - JJ.dw

Sheet
SP-1

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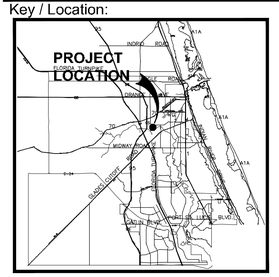
Phasing Data:

Phase 1 - Proposed construction Spring '18 to Spring '19.
- 92 Pull-Through Lots, 25 Back-In Lots
- Water Main Loop
- Sanitary Sewer
- Lift Station
- Project Entrances
- Electric Services
- Administration Building -- First Phase of 2-Phase construction
- Pool, Pool Fence, Patio, Parking
- Lake
- Drainage Outfall
- Storage Area
- Landscape Buffers
- Active Play Area

Phase 2 - Proposed construction Spring '19 to '21.
- 80 Back-In Lots
- Water Main Loop
- Sanitary Sewer
- Electric Service
- Lake
- Landscape Buffers
- Workshop/Restrooms
- Horseshoe Pits, Pickleball Courts, Shuffleboard Courts

Phase 3 - Proposed construction Spring '21 to '23.
- 104 Pull-Through Lots, 22 Back-In Lots
- Water Main Loop
- Sanitary Sewer
- Electric Service
- Administration Building -- Second Phase of 2-Phase construction
- Restrooms & Workshop
- Multi-Purpose Field
- Shuffleboard Courts

Key / Location:



N.T.S.

Project Team:

Applicant: S.R. Enterprises, LLC, 1821 N. US1, Fort Pierce, FL 34946

Land Planner / Landscape Architect: Lucido & Associates, 701 East Ocean Boulevard, Stuart, Florida 34994

Legal Counsel: W. Lee Dobbing, Esq., Dean, Mead, Minton & Zwimmer, 1903 S. 25th Street, Suite 200, Fort Pierce, FL 34947

Jenkins Road KOA

Fort Pierce, Florida

Phase Plan

Minor Adjustment #1

Date	By	Description
9.5.17	JJ	Initial Submittal
10.10.17	DC	Resubmittal
2.20.18	JJ	Resubmittal
3.13.18	DC	Revisions per Client
11.01.18	SAW	Minor Adjustments #1

NORTH

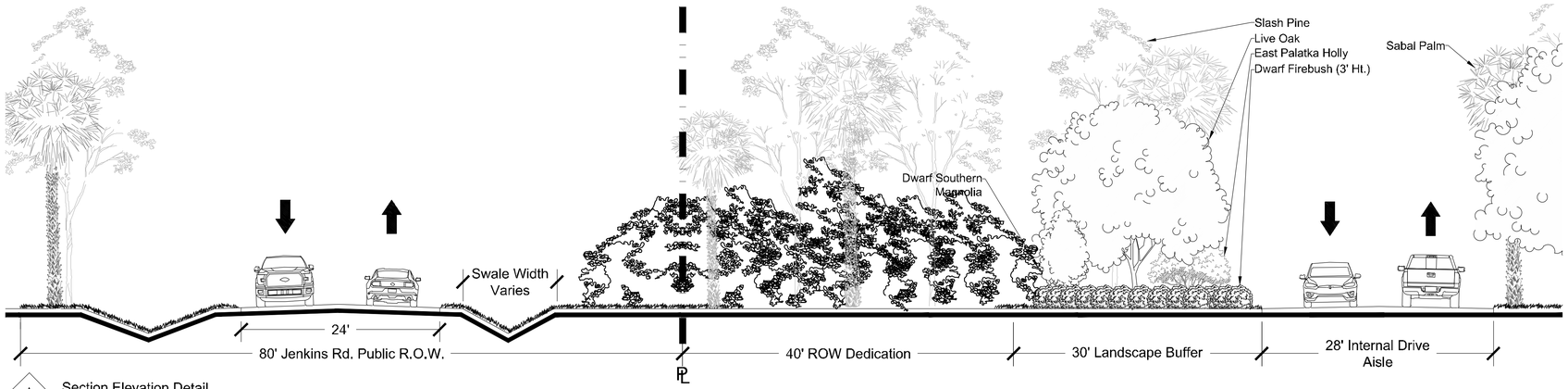
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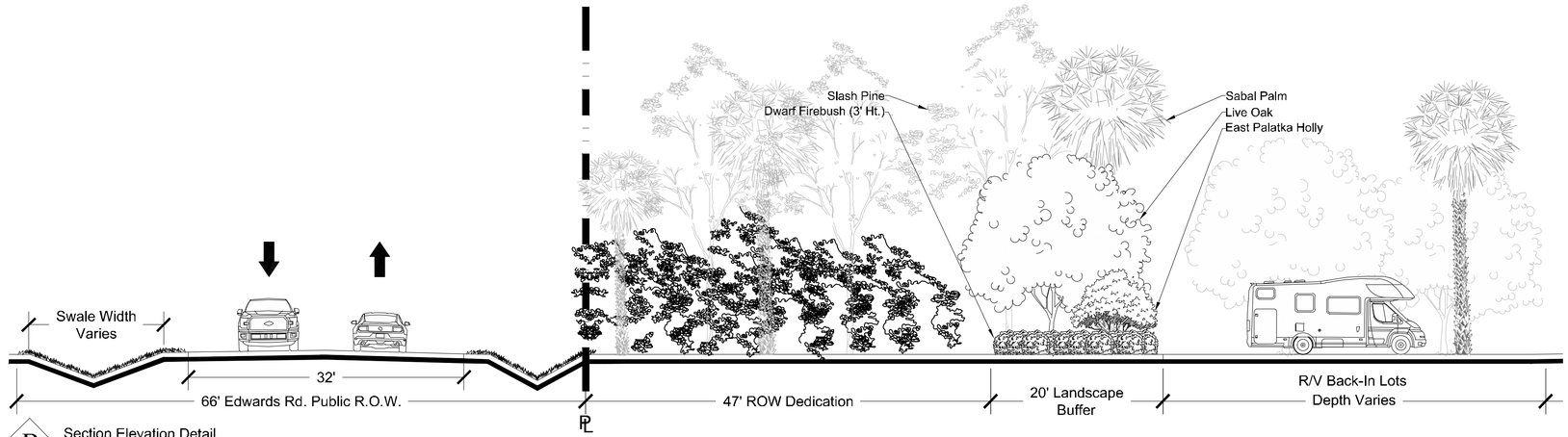
REG. # 1018
Thomas P. Lucido

Designer	JJ	Sheet
Manager	BN	**SP-2**
Project Number	17-445	
Municipal Number	---	
Computer File	17-446 Jenkins Road KOA - Minor Adjustment - JJ.dwg	

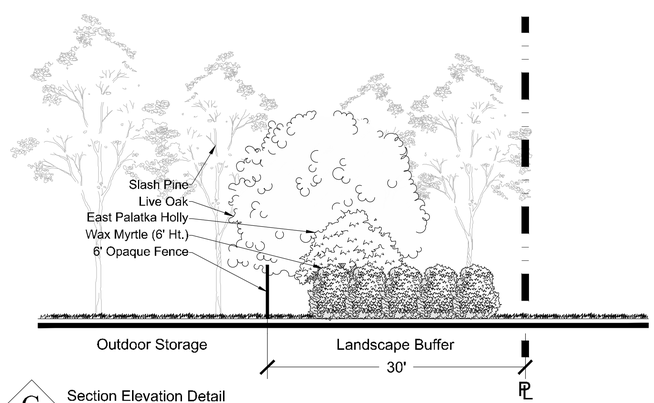
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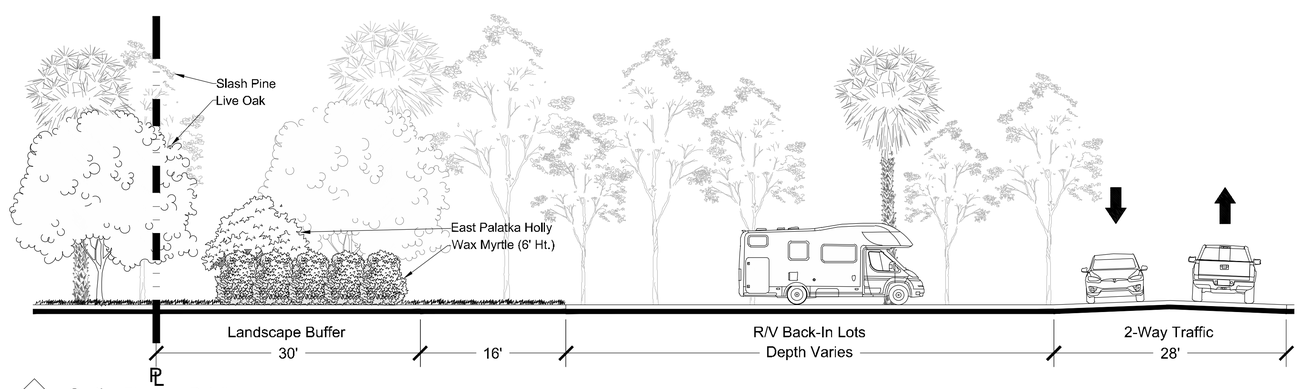
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B Section Elevation Detail
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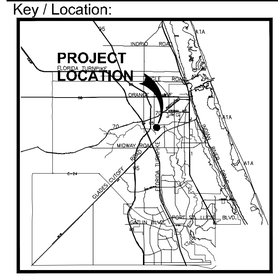
C Section Elevation Detail
Scale: 1"=1/8"



D Section Elevation Detail
Scale: 1"=1/8"

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701 SE Ocean Blvd., Stuart, Florida 34994 (772) 220-2100, Fax (772) 223-0220

Key / Location:



N.T.S.

Project Team:

Applicant:	S.R. Enterprises, LLC 1821 N. US1 Fort Pierce, FL 34946
Land Planner / Landscape Architect:	Lucido & Associates 701 East Ocean Boulevard Stuart, Florida 34994
Legal Counsel:	W. Lee Dobbing, Esq. Dean, Mead, Minton & Zwimmer 1903 S. 25th Street, Suite 200 Fort Pierce, FL 34947

Jenkins Road KOA

Fort Pierce, Florida

Cross Sections

Minor Adjustment #1

Date	By	Description
9.5.17	JJ	Initial Submittal
10.10.17	DC	Resubmittal
2.20.18	JJ	Resubmittal
11.01.18	SAW	Minor Adjustments #1

NORTH

SCALE: 1" = N.T.S.

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REG. # 1018
Thomas P. Lucido

Designer	JJ	Sheet
Manager	BN	SP-3
Project Number	17-445	
Municipal Number	---	
Computer File	17-446 Jenkins Road KOA - Minor Adjustment - JJ.c	

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80' ROW

Tree Preserve Area

28' 2-WAY ROAD (TYP.)

15' 1-Way Road (Typ.)

Tree Preserve Area

40'

80' ROW

Proposed Turn Lane

Proposed Stop Sign

Proposed Stop Bar

Existing Fence to be Removed

Project ID Sign

Multi-Purpose Field (0.28 ac.)

Proposed Storm Drainage

Canoe/Kayak Launch

Horseshoe Pits (2)

Shuffleboards (2)

Pickleball Courts (2)

Pool & Patio

Lake (3.02 ac.)

Small & Large Dog Parks w/ 6' High Chainlink, Vinyl Coated Fence .25 ac. (Total)

Proposed Storm Drainage

Water Main

Sanitary Sewer

Proposed Fire Hydrant (Typ.)

Active Play Area

Admin. Bldg. 6,000 sf. FF 17.0'

22' 2-WAY ROAD (TYP.)

28' 2-Way Road (Typ.)

30' Landscape Buffer

Primary Gated Access Point

8" Type D Curb

Bike Rack (2@5 Bikes)

Light Pole (Typ.)

Matchline SP-4

Matchline SP-5

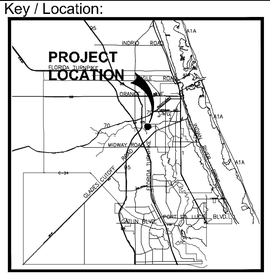
Matchline SP-4

Matchline SP-6 (Top)

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Key / Location:



N.T.S.

Project Team:

Applicant: S.R. Enterprises, LLC
1821 N. US1
Fort Pierce, FL 34946

Land Planner / Landscape Architect: Lucido & Associates
701 East Ocean Boulevard
Stuart, Florida 34994

Legal Counsel: W. Lee Dobbing, Esq.
Dean, Mead, Minton & Zwimmer
1903 S. 25th Street, Suite 200
Fort Pierce, FL 34947

Jenkins Road KOA

Fort Pierce, Florida

Conceptual Site Plan

Minor Adjustment #1

Date	By	Description
9.5.17	JJ	Initial Submittal
10.10.17	DC	Resubmittal
2.20.18	JJ	Resubmittal
11.01.18	SAW	Minor Adjustments #1

NORTH

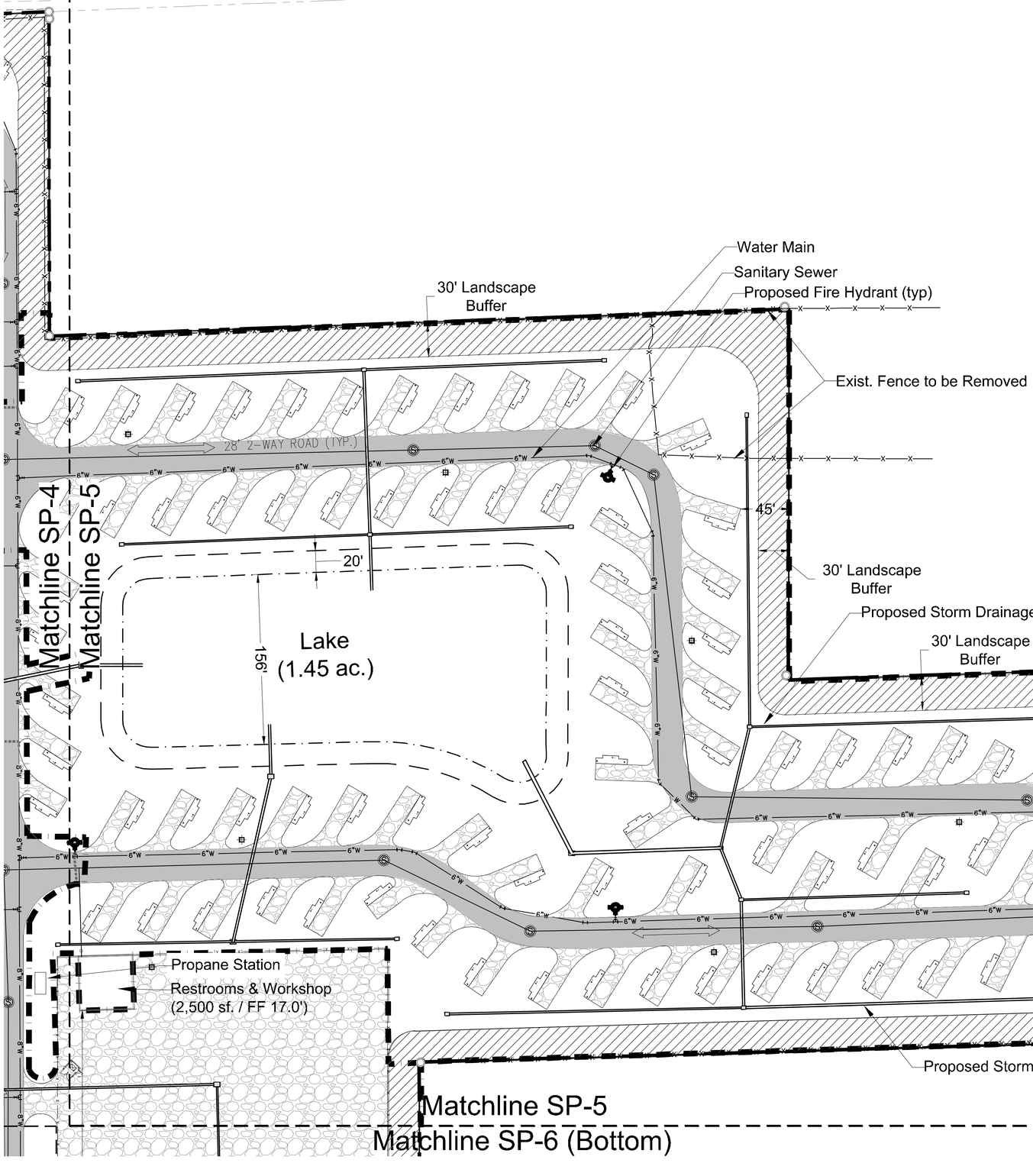
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REG. # 1018
Thomas P. Lucido

Designer	JJ	Sheet
Manager	BN	SP-4
Project Number	17-446	
Municipal Number	---	
Computer File	17-446 Jenkins Road KOA - Minor Adjustment - JJ.dwg	

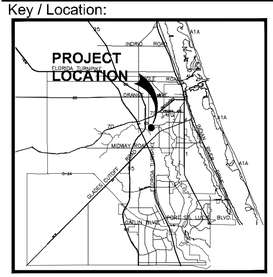
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Key / Location:



N.T.S.

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Jenkins Road KOA

Fort Pierce, Florida

Conceptual Site Plan

Minor Adjustment #1

Date	By	Description
9.5.17	JJ	Initial Submittal
10.10.17	DC	Resubmittal
2.20.18	JJ	Resubmittal
11.01.18	SAW	Minor Adjustments #1

NORTH

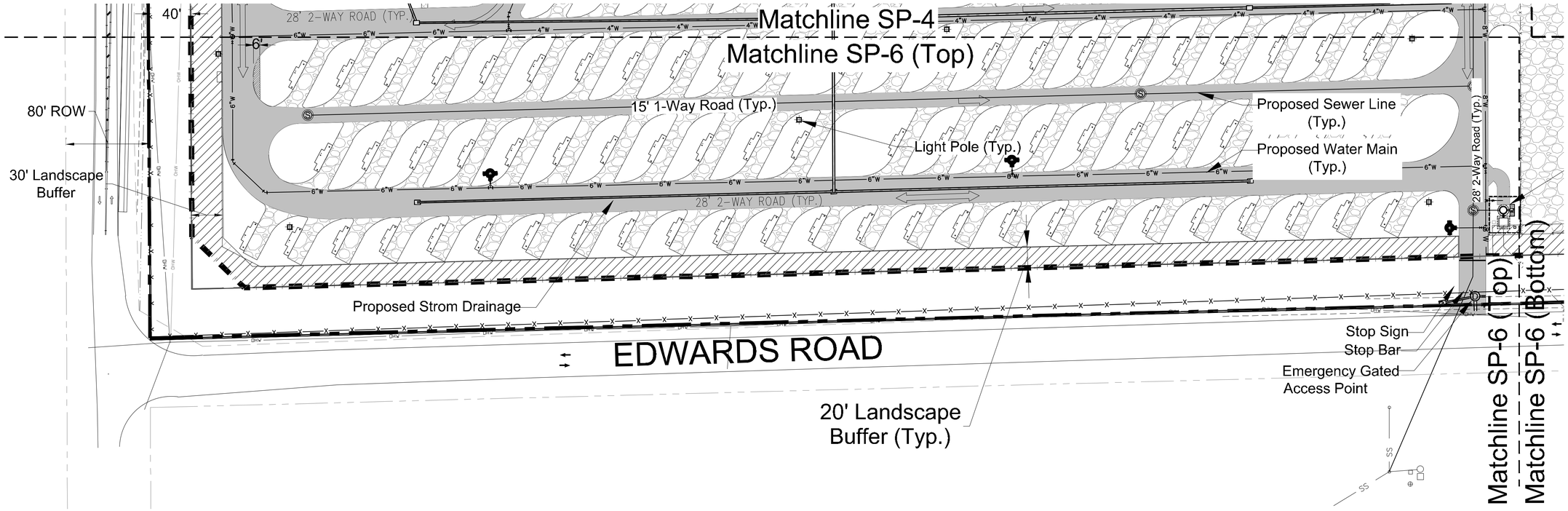
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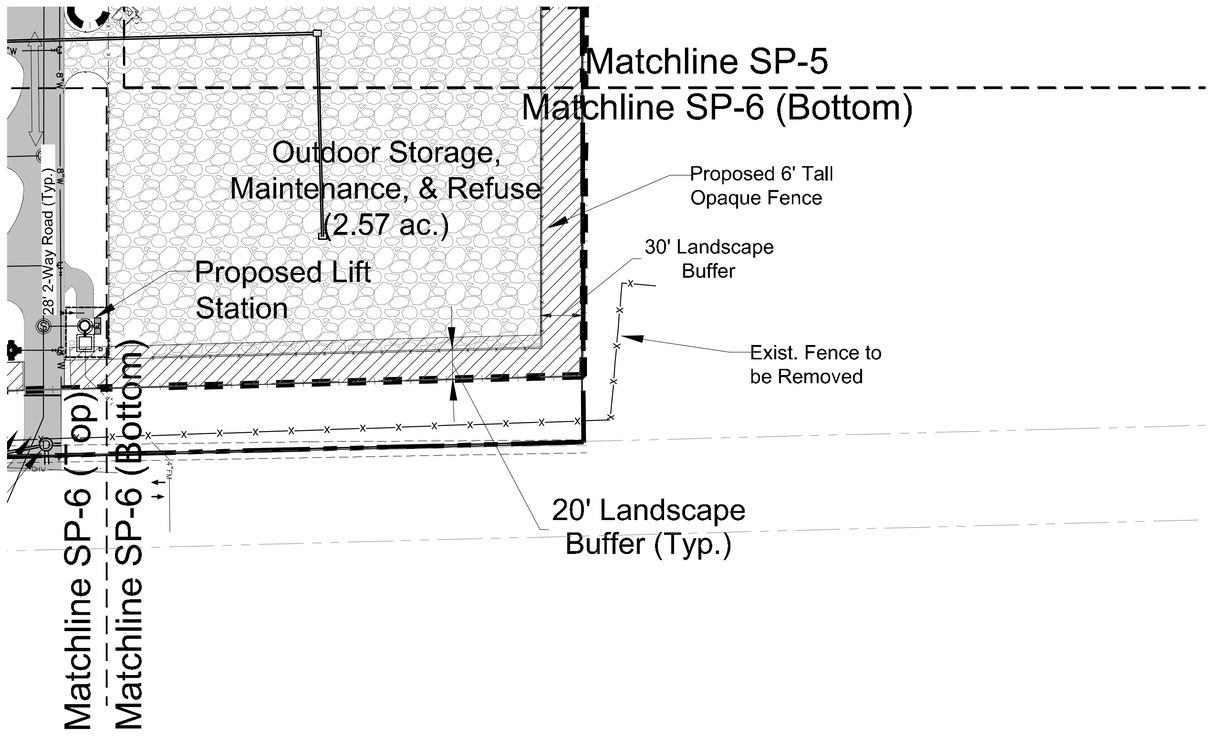
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REG. # 1018
Thomas P. Lucido

Designer	JJ	Sheet
Manager	BN	**SP-5**
Project Number	17-446	
Municipal Number	---	
Computer File	17-446 Jenkins Road KOA - Minor Adjustment - JJ.dwg	

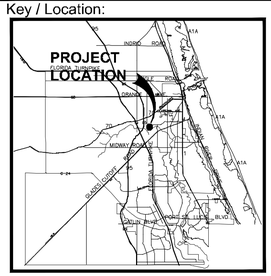
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Key / Location:



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Jenkins Road KOA

Fort Pierce, Florida

Conceptual Site Plan

Minor Adjustment #1

Date	By	Description
9.5.17	JJ	Initial Submittal
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2.20.18	JJ	Resubmittal
3.13.18	DC	Revisions per Client
11.01.18	SAW	Minor Adjustments #1

NORTH

SCALE: 1" = 50'

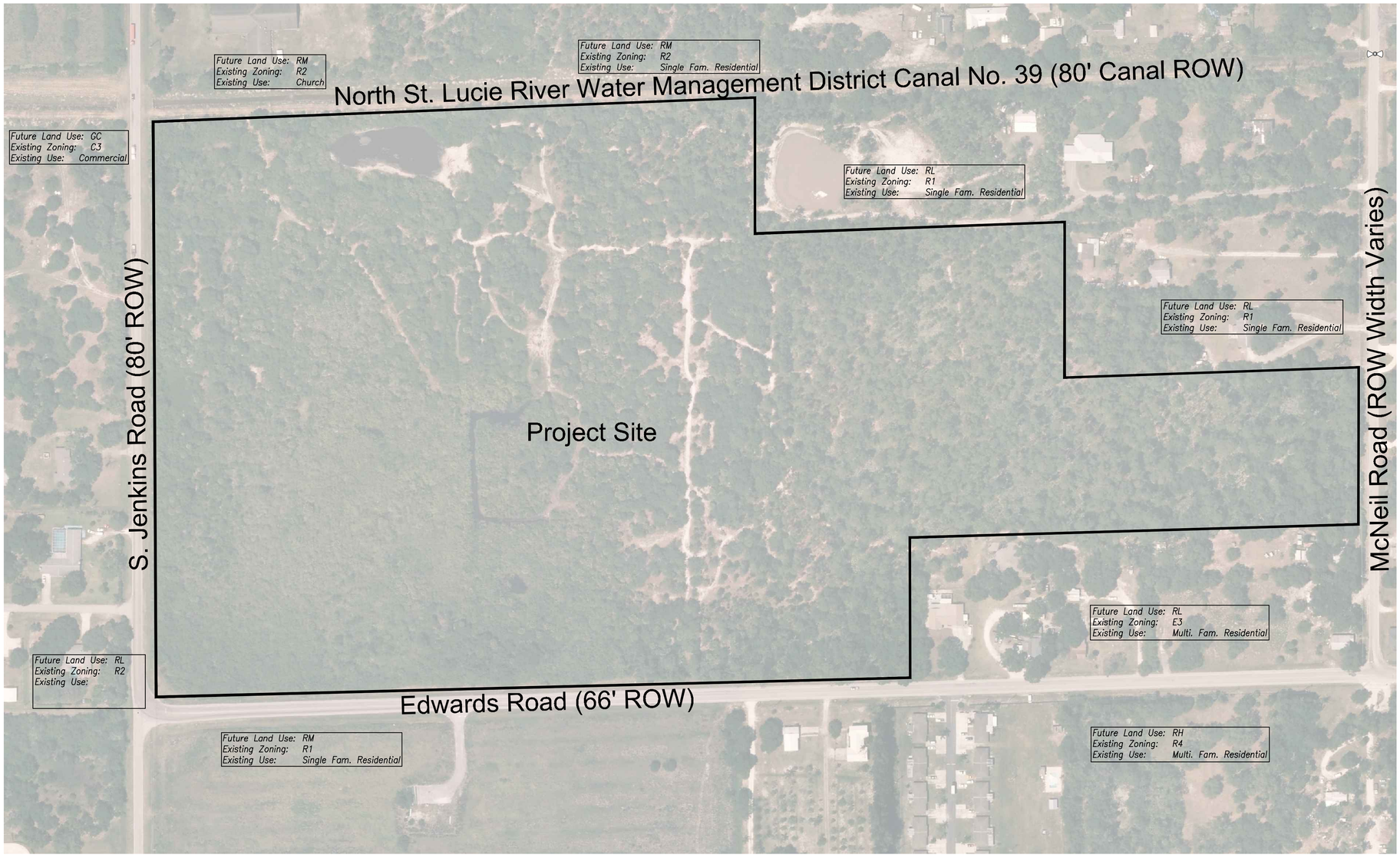
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REG. # 1018
Thomas P. Lucido

Designer	JJ
Manager	BN
Project Number	17-446
Municipal Number	---
Computer File	17-446 Jenkins Road KOA - Minor Adjustment - JJ.dwg

Sheet **SP-6**

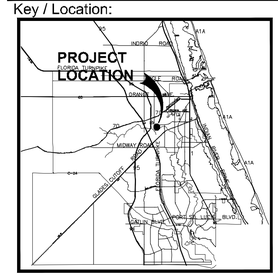
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Key / Location:



N.T.S.

Project Team:

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1821 N. US1
Fort Pierce, FL 34946

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Stuart, Florida 34994

Legal Counsel: W. Lee Dobbling, Esq.
Dean, Mead, Minton, & Zwimmer
1903 S. 25th Street, Suite 200
Fort Pierce, FL 34947

Jenkins Road KOA

Fort Pierce, Florida

Aerial Exhibit

Minor Adjustment #1

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10.10.17	DC	Resubmittal
2.20.18	JJ	Resubmittal
11.01.18	SAW	Minor Adjustments #1

NORTH

SCALE: 1" = 100'

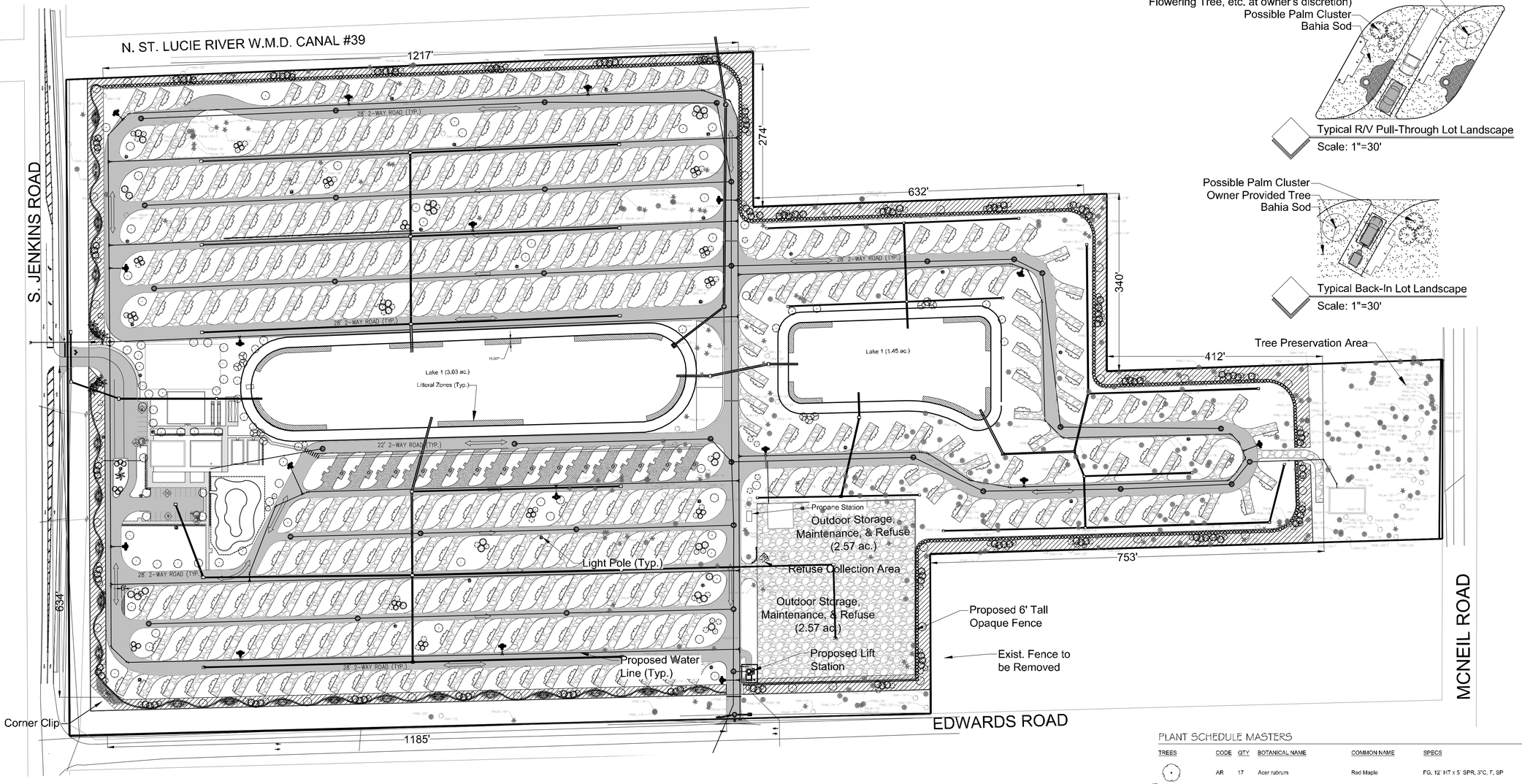
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REG. # 1018
Thomas P. Lucido

Designer	JJ
Manager	BN
Project Number	17-445
Municipal Number	---
Computer File	17-446 Jenkins Road KOA - Minor Adjustment - JJ.dwg

Sheet **SP-7**

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General Landscape Notes:

1. All plants shall conform to established nursery grades and standards, to be Florida No. 1 or better, and shall be free of disease and insects at the time of installation.
2. Trees shall be a minimum of twelve (12) feet in height and have a caliper of two and one-half (2 1/2) inches at four and one-half (4 1/2) feet above the ground when installed.
3. All required trees, except palms, shall have a minimum of five (5) feet of clear trunk and a minimum five (5) foot canopy spread at the time of planting.
4. All palm trees shall have a minimum clear trunk of ten (10) feet when installed. Three palm trees are equal to one shade tree having a mature canopy spread of fifteen (15) feet.
5. Shrubs shall be a minimum of twenty-four (24) inches in height above grade immediately after planting.
6. Groundcovers, other than grass, shall be planted in a manner as to present a finished appearance and reasonably complete coverage within four (4) months after planting.
7. Turf grass shall be installed using solid sod and shall be either Bahia or St. Augustine sod.
8. All landscape areas other than sod will be provided a mulch cover of at least three (3) inches. Cypress mulch shall not be used.
9. All existing native vegetation found on the site and is not in direct conflict with the proposed buildings or parking areas shall be left undisturbed. A suitable protective barrier, constructed of metal, wood, safety fencing, or other durable material, will be placed around the staked out locations of existing native vegetation.

General Landscape Notes Cont'd:

10. No fill materials, construction materials, concrete, paint, chemicals, or other foreign materials shall be stored, deposited, or disposed of within any areas that have been staked or fenced off as being undisturbed native vegetation areas.
11. Existing understory shall be maintained in areas of undisturbed native vegetation.
12. All Category 1 exotic plant species will be eradicated from the site.
13. Conspicuous, durable barricades will be erected around each individual tree or areas of vegetation that are to be preserved. In the event that any protective barricades are removed or altered and land clearing or construction work is being conducted on the site, all work at the site will be stopped until the barriers are restored and any necessary corrective actions taken to repair or replant any vegetation removed or damaged as a result of these encroachments.
14. All back flow prevention devices shall be screened in accordance with Section 22-70(d) of the Fort Pierce City Code.
15. Irrigation to conform to all local and State regulations with regard to water consumption.
16. All new landscaping shall be provided with 100% irrigation coverage through the establishment period, not less than 1-year.

Landscape Calculations:

Vehicular Use Area along Property Lines
3,628 Linear Feet along Property Line
3,628 x 10 = 36,280 sq. ft. required Landscape Area
(36,280) / 200 = 182 Trees Required (455")
Total Trees Provided: 201 Trees (503")

Vehicular Use Area along Right of Way
2,305 Linear Feet along Right of Way
2,305 x 10 = 23,050 sq. ft. required Landscape Area
(23,050) / 300 = 77 Trees Required (193")
Total Trees Provided: 97 Trees (243")

Interior Vehicular Use Area
281,656 sq. ft. total Vehicular Use Area
281,656 / 15 = 18,777 sq. ft. required Landscape Area
(18,777) / 100 = 188 Trees Required (470")
Total Trees Provided: 188 Trees (470")

Total Landscape Area Required = 79,141 sq. ft.
Total Trees Required = 447 Trees (2.5" x 447 = 1,118")
Trees Provided = 486 Canopy Trees (1,195")

Preserved Tree Key

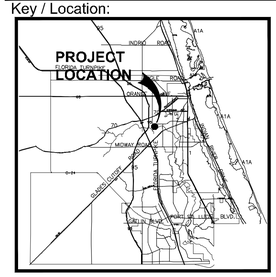
- Existing Palm
- Existing Oak
- Existing Pine

PLANT SCHEDULE MASTERS

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SPECS
	AR	17	Acer rubrum	Red Maple	FG, 12` HT x 5` SPR, 3"C, F, SP
	IE	89	Ilex x attenuata 'East Palatka'	East Palatka Holly	FG, 12` HT x 6` SPR, 3" C, SP
	ML	79	Magnolia grandiflora 'Little Gem'	Dwarf Southern Magnolia	CG, 8` HT x 4` SPR, F, SP
	PE	155	Pinus elliotti	Slash Pine	FG, 14`-16` HT X 7` SPR, 3"C, F, SP
	QV	133	Quercus virginiana	Southern Live Oak	FG, 12` HT x 6` SPR, 3"C, SP, F
	TD	12	Taxodium distichum	Bald Cypress	FG, 12` HT x 6` SPR, 3.5"C, F, SP,
PALM TREES	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SPECS**
	RO	7	Roystonea regia	Florida/Cuban Royal Palm	FG, 12` GW, SP, No Scars, Straight
	SP	45	Sabal palmetto	Sabal Palm	FG, 16`-18` CT HT, HV CAL, SP
SHRUBS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SPECS**
	CHR	25	Chrysobalanus icaco 'Redtip'	Red Tip Cocoplum	7G, 36" HT x 24" SPR, F
	CRI	12	Crinum augustum 'Queen Emma'	'Queen Emma' Crinum	3G, 24" OA, SP
	HAC	1,083	Hamilia patens 'Compacta'	Dwarf Firebush	3G, 48" HT x 24" SPR, FTB, 36" OC
	JAI	62	Jatropha integerrima	Jatropha	7G, 36" OA, F, SP
	MC15	685	Myrica cerifera	Wax Myrtle	7G, 36" OA, FTB, SP, AS
	SER	71	Serenoa repens 'Cinerea'	Silver Saw Palmetto	3G, 18" OA, F
	VIO	18	Viburnum odoratissimum	Sweet Viburnum	3G, 24" HT x 18" SPR, 24" OC
SHRUB AREAS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SPECS**	**SPACING**
	GAG	1,229	Galphimia glauca	Thryallis	3G, 24" OA, SP	18" o.c.
	PLI	1,177	Plumbago auriculata 'Imperial Blue'	Plumbago	3G, 24" OA, FTB, SP	18" o.c.
GROUND COVERS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SPECS**	**SPACING**
	JUP	1,351	Juniperus chinensis 'Parsonii'	Parson's Juniper	3G, 10" HT x 18" SPR, F	18" o.c.

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Key / Location:



N.T.S.

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Jenkins Road KOA

Fort Pierce, Florida

Preliminary Landscape Plan
Minor Adjustment #1

Date	By	Description
9.5.17	JJ	Initial Submittal
10.10.17	DC	Resubmittal
2.20.18	JJ	Resubmittal
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NORTH

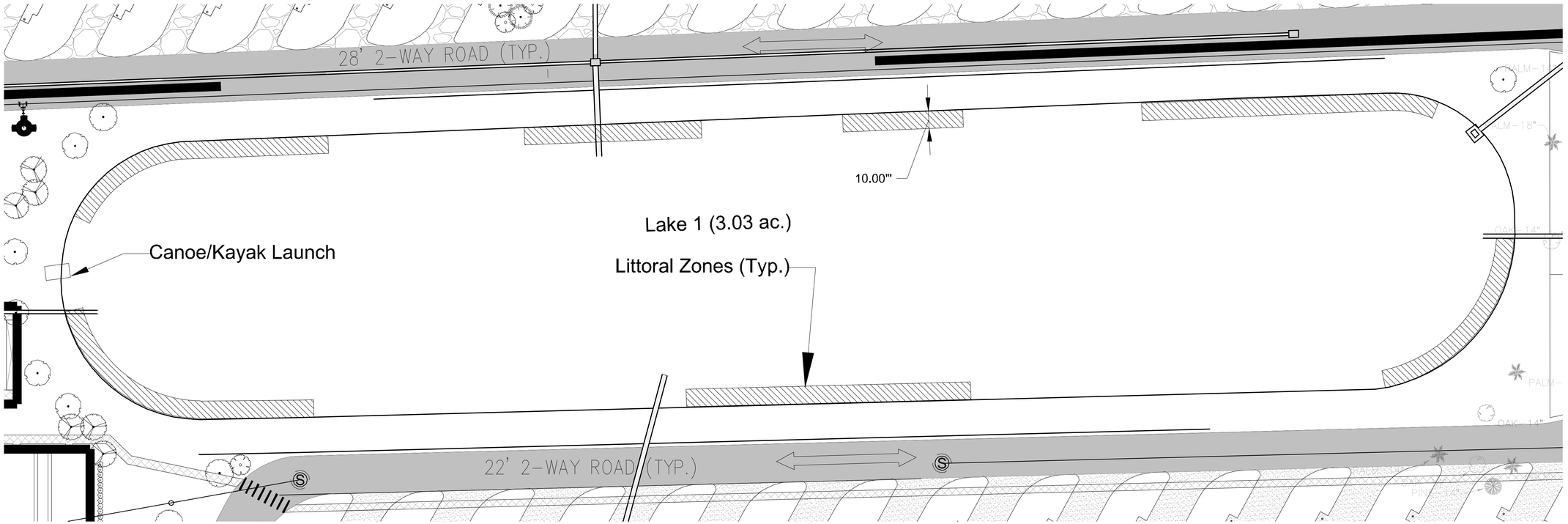
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REG. # 1018
Thomas P. Lucido

Designer	JJ	Sheet
Manager	BN	**LA-1**
Project Number	17-445	
Municipal Number	---	
Computer File	17-446 Jenkins Road KOA - Minor Adjustment - JJ.c	

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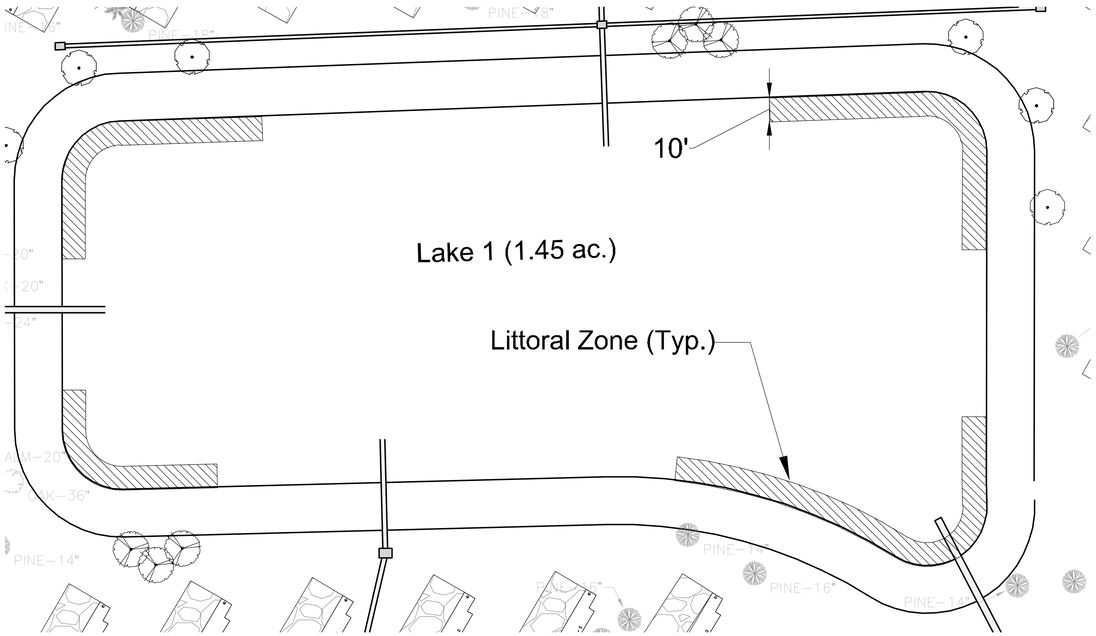


Lake 1 - Littoral Buffer Planting

Littoral Zone Plant Schedule:

928 lf. shoreline / 50' typ. section = 19 (x material in typical plant schedule below)

	Common Name / *Botanical Name*	Specifications
133	Fragrant Waterlily / *Nymphaea odorata*	24" root, BR, clean, free of weeds, 7' o.c., 2'-3' depth
190	Arrowhead / *Sagittaria spp.*	24" ht., BR, clean, free of weeds, 3' o.c., 6"-2' depth
190	Pickerelweed / *Pontederia cordata*	24" ht., BR, clean, free of weeds, 3' o.c., 6"-2' depth
190	Spikerush / *Eleocharis interstincta*	BR, clean, free of weeds, 3' o.c., 6"-18"depth
418	Sand Cordgrass / *Spartina bakeri*	4" liner, 2' o.c., shoreline-6" depth
95	Swamp Lily / *Crinum americanum*	BR, 3' o.c., shoreline-3" depth
95	Golden Canna / *Canna flaccida*	BR, 3' o.c., shoreline-3" depth
95	Southern Blue Flag Iris / *Iris virginica*	BR, 3' o.c., shoreline-3" depth
19	Bald Cypress / *Taxodium distichum*	10' ht. X 5' sprd., 2" cal., FG

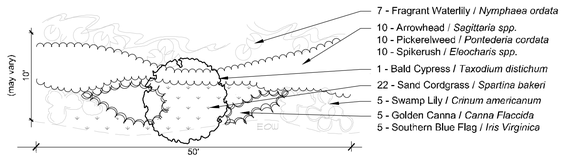


Lake 2 - Littoral Buffer Planting

Littoral Zone Plant Schedule:

547 lf. shoreline / 50' typ. section = 11 (x material in typical plant schedule above)

	COMMON NAME / *Botanical Name*	Specifications
77	Fragrant Waterlily / *Nymphaea odorata*	24"root, BR, clean, free of weeds, 7' o.c., 2'-3' depth
110	Arrowhead / *Sagittaria spp.*	24"ht., BR, clean, free of weeds, 3' o.c., 6"-2' depth
110	Pickerelweed / *Pontederia cordata*	24"ht., BR, clean, free of weeds, 3' o.c., 6"-2' depth
110	Spikerush / *Eleocharis interstincta*	BR, clean,free of weeds, 3' o.c., 6"-18"depth
242	Sand Cordgrass / *Spartina bakeri*	4" liner, 2' o.c., shoreline-6" depth
55	Swamp Lily / *Crinum americanum*	BR, 3' o.c., shoreline-3" depth
55	Golden Canna / *Canna flaccida*	BR, 3' o.c., shoreline-3" depth
55	Southern Blue Flag Iris / *Iris virginica*	BR, 3' o.c., shoreline-3" depth
11	Bald Cypress / *Taxodium distichum*	10' ht. X 5' sprd., 2" cal., FG



Typical 50' Section-Littoral Plan

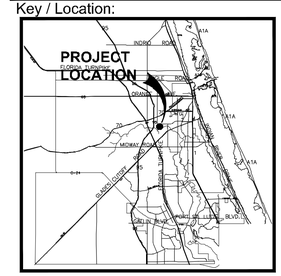
N.T.S.

QTY	Common Name	Botanical Name
7	Fragrant Waterlily	*Nymphaea odorata*
10	Arrowhead	*Sagittaria spp.*
10	Pickerelweed	*Pontederia cordata*
10	Spikerush	*Eleocharis interstincta*
22	Sand Cordgrass	*Spartina bakeri*
5	Swamp Lily	*Crinum americanum*
5	Golden Canna	*Canna flaccida*
5	Southern Blue Flag Iris	*Iris virginica*
1	Bald Cypress	*Taxodium distichum*

Typical 50' Littoral Plant Schedule

lucido & associates
701 SE Ocean Blvd., Stuart, Florida 34994 (772) 220-2100, Fax (772) 223-0220

Key / Location:



Project Team:

Applicant: S.R. Enterprises, LLC
1821 N. US1
Fort Pierce, FL 34946

Land Planner / Landscape Architect: Lucido & Associates
701 Southeast Ocean Boulevard
Stuart, Florida 34994

Legal Counsel: W. Lee Dobbing, Esq.
Dean, Mead, Merton & Zwimmer
1903 S. 25th Street, Suite 200
Fort Pierce, FL 34947

Jenkins Road KOA

Fort Pierce, Florida

Lake Littoral Plan Minor Adjustment #1

Date	By	Description
9.5.17	JJ	Initial Submittal
10.10.17	DC	Resubmittal
2.20.18	JJ	Resubmittal
11.01.18	SAW	Minor Adjustments #1

NORTH

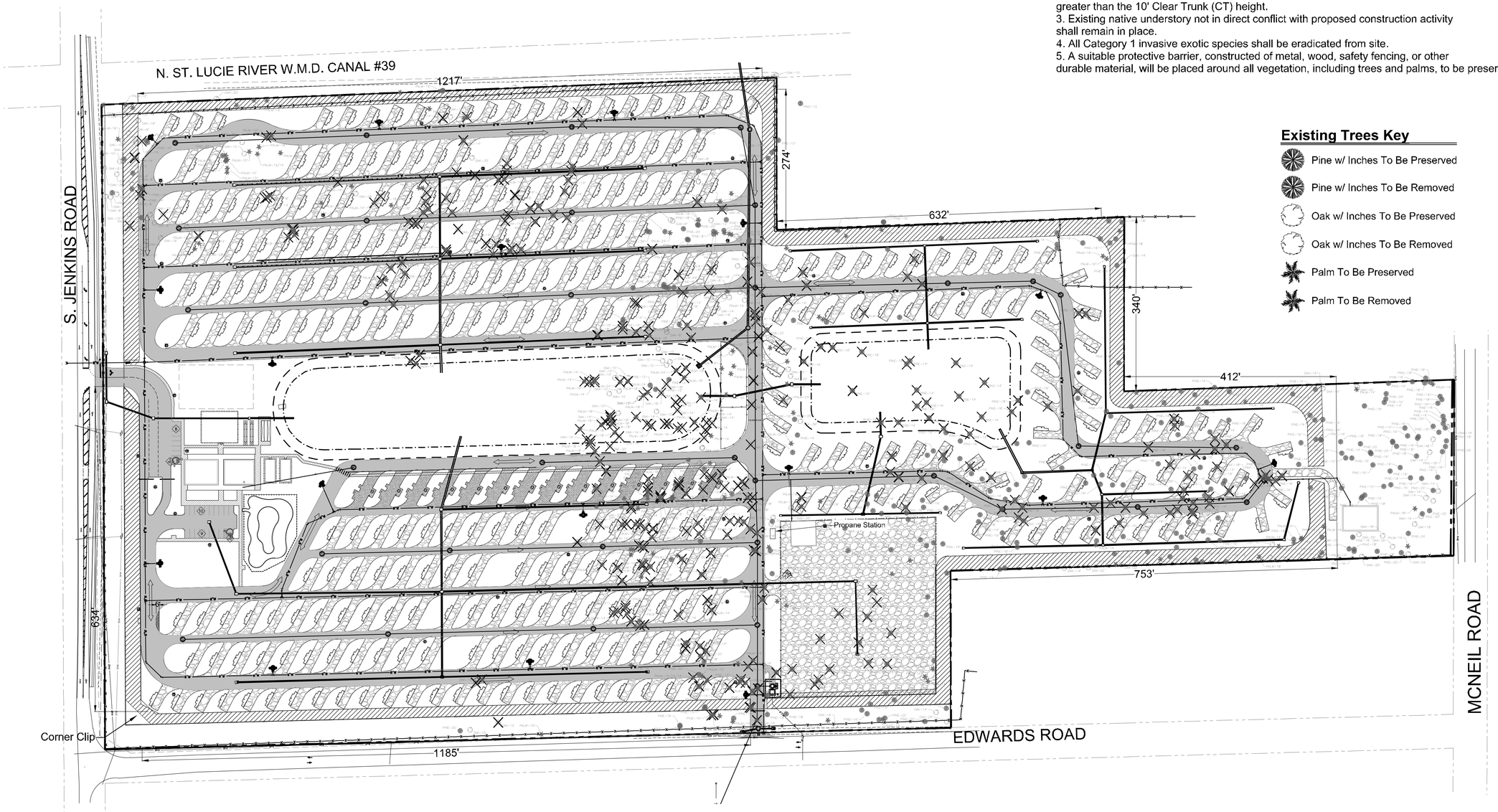
SCALE: 1" = 30'

0 15' 30' 60'

REG. # 1018
Thomas P. Lucido

Designer	JJ	Sheet	LA-2
Manager	BN		
Project Number	17-445		
Municipal Number	---		
Computer File	17-446 Jenkins Road KOA - Minor Adjustment - JJ.c		

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Mitigation Data:

Total Inches (DBH) Removed:	3,228"
Total Inches (DBH) Preserved:	6,377"
Total Mitigation Required:	0"
Total Palms Removed:	132
Total Palms Preserved:	115
Total Palm Mitigation Required:	17

Mitigation Notes:

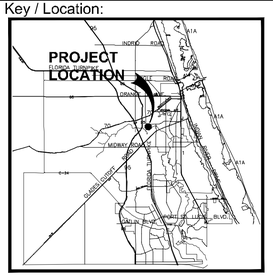
1. Tree Mitigation shall be provided for the removal of existing native trees with a DBH equal to or greater than 14".
2. Palm Tree Mitigation shall be provided for the removal of existing native palm trees equal to or greater than the 10' Clear Trunk (CT) height.
3. Existing native understory not in direct conflict with proposed construction activity shall remain in place.
4. All Category 1 invasive exotic species shall be eradicated from site.
5. A suitable protective barrier, constructed of metal, wood, safety fencing, or other durable material, will be placed around all vegetation, including trees and palms, to be preserved.

Existing Trees Key

- Pine w/ Inches To Be Preserved
- Pine w/ Inches To Be Removed
- Oak w/ Inches To Be Preserved
- Oak w/ Inches To Be Removed
- Palm To Be Preserved
- Palm To Be Removed

lucido & associates
701 SE Ocean Blvd., Stuart, Florida 34994 (772) 220-2100, Fax (772) 223-0220

Key / Location:



Project Team:

Applicant:	S.R. Enterprises, LLC 1821 N. US1 Fort Pierce, FL 34946
Land Planner / Landscape Architect:	Lucido & Associates 701 Southeast Ocean Boulevard Stuart, Florida 34994
Legal Counsel:	W. Lee Dobbing, Esq. Dean, Mead, Minton & Zwimmer 1903 S. 25th Street, Suite 200 Fort Pierce, FL 34947

Jenkins Road KOA

Fort Pierce, Florida

Tree Mitigation Plan Minor Adjustment #1

Date	By	Description
9.5.17	JJ	Initial Submittal
10.10.17	DC	Resubmittal
2.20.18	JJ	Resubmittal
3.13.18	DC	Revisions per Client
11.01.18	SAW	Minor Adjustments #1

NORTH

SCALE: 1" = 100'

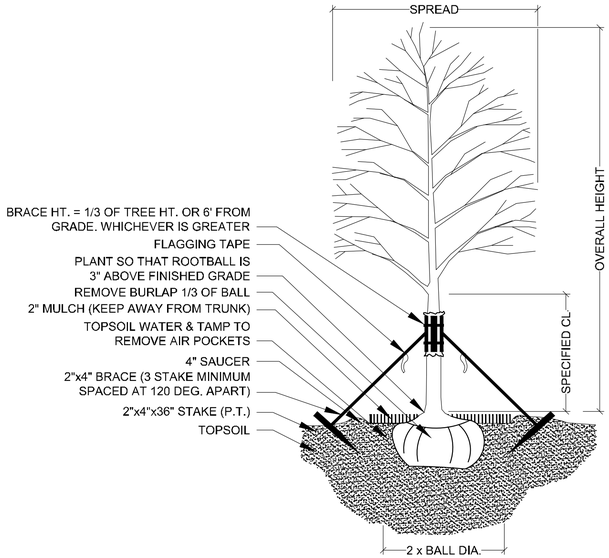
0 50' 100' 200'

REG. # 1018
Thomas P. Lucido

Designer	JJ
Manager	BN
Project Number	17-445
Municipal Number	---
Computer File	17-446 Jenkins Road KOA - Minor Adjustment - JJ.dwg

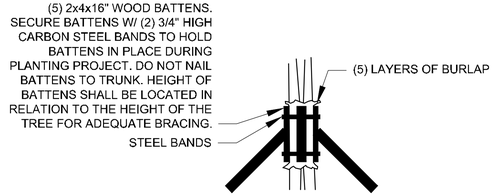
Sheet **LA-3**

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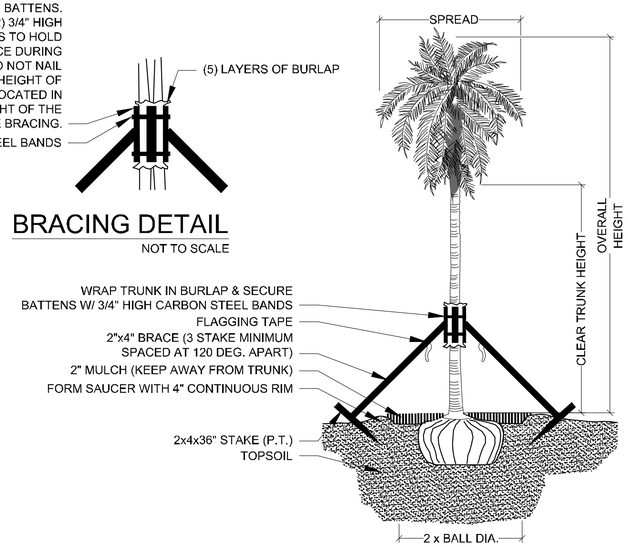
TREE PLANTING & STAKING

NOT TO SCALE



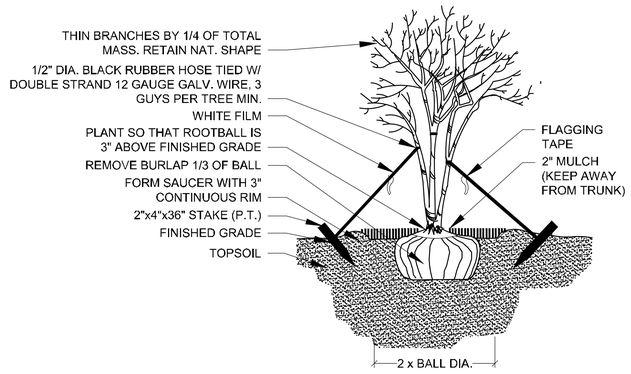
BRACING DETAIL

NOT TO SCALE



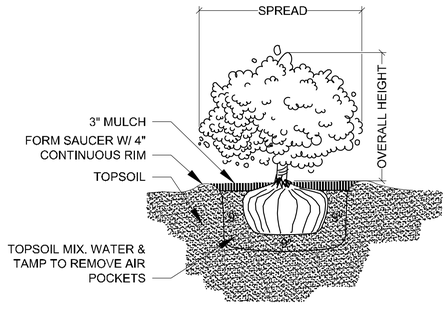
PALM PLANTING - ANGLE STAKE

NOT TO SCALE



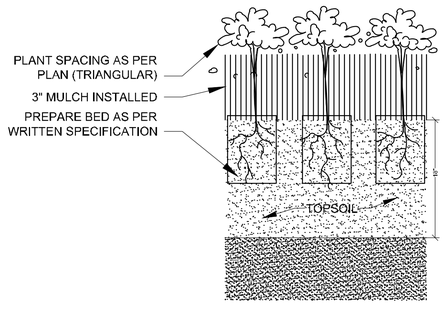
MULTI-TRUNK PLANTING & GUYING

NOT TO SCALE



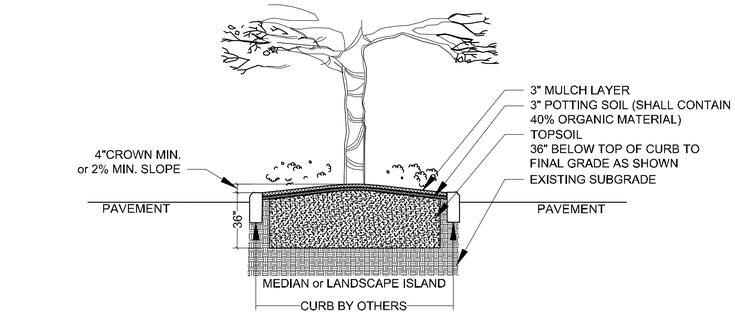
SHRUB PLANTING

NOT TO SCALE



GROUNDCOVER PLANTING DETAIL

NOT TO SCALE

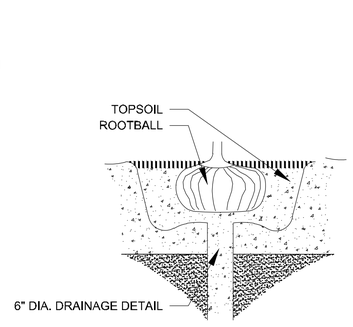


THIS DETAIL SHOWN DEPICTS A MEDIAN AND/OR LANDSCAPE ISLAND AND IS FOR GRAPHIC PURPOSES ONLY; SOIL PREPARATION SHALL APPLY TO ALL TREE, SHRUB, & GROUND COVER AREAS. THIS DOES NOT INCLUDE SOD AREAS

LANDSCAPE AREA PREPARATION DETAIL

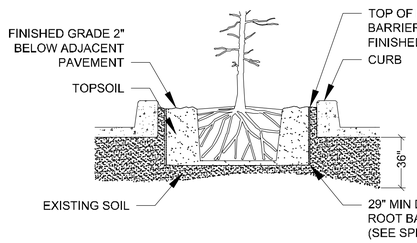
NOT TO SCALE

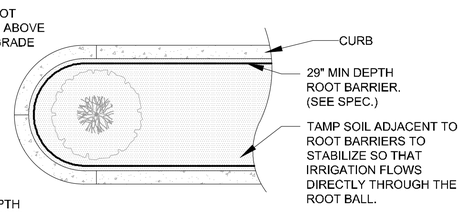
- "TOPSOIL SHALL BE NATURAL, FRIABLE, FINE LOAMY SOIL POSSESSING CHARACTERISTICS OF REPRESENTATIVE TOPSOILS IN THE VICINITY OF THE PROJECT SITE THAT PRODUCES HEAVY GROWTH.
- TOPSOIL SHALL HAVE A PH RANGE OF 5.5-7.4, FREE FROM SUBSOIL, WEEDS, LITTER, SODS, CLAY, STONES, STUMPS, ROOTS, TRASH, HERBICIDES, TOXIC SUBSTANCES, OR ANY OTHER MATERIAL WHICH MAY BE HARMFUL TO PLANT GROWTH, OR HINDER PLANTING OPERATIONS.
- TOPSOIL SHALL CONTAIN A MINIMUM OF 3% ORGANIC MATERIAL.
- TOPSOIL MUST PERCOLATE WATER AT A RATE OF 1" PER HOUR (SEE ALSO DRAINAGE TESTING DETAIL FOR TREES)
- LANDSCAPE AREA SOILS SHALL BE APPROVED BY LANDSCAPE ARCHITECT/OWNER PRIOR TO PLANTING



DRAINAGE TESTING DETAIL

NOT TO SCALE

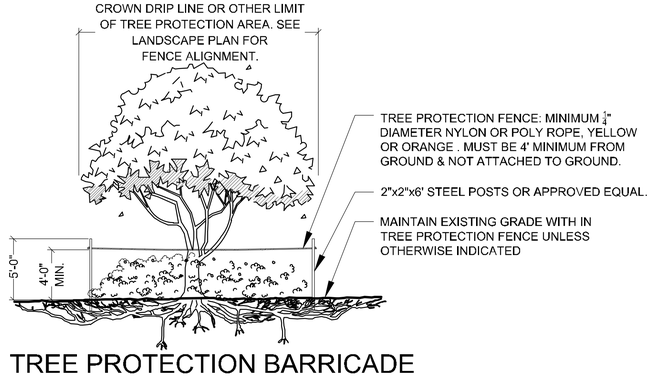




SPECIAL APPLICATIONS ROOT BARRIER DETAIL

NOT TO SCALE

NOTES:
1- ROOT BARRIER SHALL BE INSTALLED WHEN ROOT BALL IS LOCATED WITHIN 8' OF PAVEMENT AND OR CURB.
2- ROOT BARRIER SHALL BE "BIO-BARRIER 29" DEPTH OR APPROVED EQUAL.
3- ROOT BARRIER SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.



TREE PROTECTION BARRICADE

NOT TO SCALE

NOTES:
1- SEE LANDSCAPE PLAN FOR FENCE ALIGNMENT.
3- NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
4- NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.

DRAINAGE TESTING/DRAINAGE CHANNEL REQUIREMENTS.

PRIOR TO PLANTING, ALL PLANTING PITS SELECTED FOR TESTING SHALL BE TESTED IN THE FOLLOWING MANNER.

A. DIG EACH PLANTING PIT TO THE MINIMUM SPECIFIED SIZE.

B. FILL PLANTING PIT WITH TWELVE INCHES (12") OF WATER. IF THE WATER LEVEL DROPS FOUR (4") OR MORE WITHIN FOUR (4) HOURS, THE DRAINAGE IS SUFFICIENT AND A DRAINAGE CHANNEL IS NOT REQUIRED. IF THE WATER LEVEL DROPS LESS THAN FOUR INCHES (4") WITHIN THE FOUR (4) HOUR PERIOD, A DRAINAGE CHANNEL IS REQUIRED.

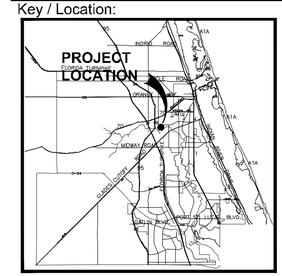
C. WHERE REQUIRED, THE DRAINAGE CHANNEL MUST EXTEND DOWN THROUGH THE NON POROUS SOIL AND INTO POROUS SOIL. (SEE DETAIL)

D. ALL MATERIAL REMOVED FROM THE DRAINAGE CHANNEL SHALL BE DISCARDED.

E. WHEN BACKFILLING PLANTING PITS WITH NATIVE TOPSOIL, CARE MUST BE TAKEN TO KEEP THE CONSISTENCY OF THE SOIL MIX THE SAME THROUGHOUT THE PLANTING PIT AND DRAINAGE CHANNEL.

lucido & associates
701 SE Ocean Blvd., Stuart, Florida 34994 (772) 220-2100, Fax (772) 223-0220

Key / Location:



N.T.S.

Project Team:

Applicant: S.R. Enterprises, LLC, 1821 N. US1, Fort Pierce, FL 34946

Land Planner / Landscape Architect: Lucido & Associates, 701 Southeast Ocean Boulevard, Stuart, Florida 34994

Legal Counsel: W. Lee Dobbing, Esq., Dean, Mead, Minton & Zwimmer, 1903 S. 25th Street, Suite 200, Fort Pierce, FL 34947

Jenkins Road KOA

Fort Pierce, Florida

Details

Minor Adjustment #1

Date	By	Description
9.5.17	JJ	Initial Submittal
10.10.17	DC	Resubmittal
2.20.18	JJ	Resubmittal
11.01.18	SAW	Minor Adjustments #1

NORTH

SCALE: 1" = n.t.s.

0 0' 0' 0'

REG. # 1018
Thomas P. Lucido

Designer	JJ
Manager	BN
Project Number	17-445
Municipal Number	---
Computer File	17-446 Jenkins Road KOA - Minor Adjustment - .

Sheet **LA-4**

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drawing name: J:\Projects Active\17-446 Jenkins Road KOA - Entitlement Phase\Site Plan\ Nov 07, 2018 - 10:10am

LANDSCAPE SPECIFICATIONS

PART 1: GENERAL CONDITIONS

1.01 SCOPE:
A. The landscape contract includes the supplying and planting of all trees, shrubs, vines, and ground cover together with all necessary labor, equipment, tools and materials needed for the successful completion, execution and maintenance of the landscape plans.

1.02 AGENCY STANDARDS:
A. Grades and standards of plant materials to be used shall be true to name, size, condition and graded Florida #1 or better as stated in: Grades and Standards of Florida Plant Materials published by the State of Florida Department of Agriculture, Tallahassee, Florida.

1.03 SITE EXAMINATION:
A. The Landscape Contractor shall personally examine the site and fully acquaint him/herlself with all of the existing conditions in order that no mis-understanding may afterwards arise as to the character or extent of the work to be performed, and, additionally, in order to acquaint him/herself with all precautions to be taken in order to avoid injury to property or persons. No additional compensation will be granted because of any unusual difficulties which may be encountered in the execution or maintenance of any portion of the work.

1.04 ERRORS AND OMISSIONS:
A. The plant list is a part of the drawings and is furnished as a convenience. The plant list indicates the name, size and quantities of specific plant materials as called for and is located on the drawings. The Landscape Contractor is responsible for his/her own quantity count, and any discrepancy between drawings and plant list shall be considered as correct on the drawings.

B. The Landscape Contractor shall not take advantage of errors or omissions in the specifications or contract drawings. Full instruction will be given if such errors are discovered. Upon the discovery of any discrepancies in, or omissions from the drawings or documents, or should the Landscape Contractor be in doubt as to their meaning, the Landscape Architect shall be notified and will determine the actions necessary to each query.

C. If plans and specifications are found to disagree after the contract is awarded, the Landscape Architect shall be the judge as to which was intended.

1.05 EXECUTION OF THE WORK:
A. The Landscape Contractor shall have his labor crews controlled and directed by a Foreman well versed in plant materials, planting methods, reading plans, and coordination between job and nursery in order to execute installation correctly and in a timely manner.

B. The Landscape Contractor shall provide a competent English-speaking Foreman on the project at all times, who shall be fully authorized as the Contractor's agent on the work. The Foreman shall be capable of reading and thoroughly understanding the Plans, Specifications and other Contract Documents. If the Superintendent is deemed incompetent by the Landscape Architect, he (the superintendent) shall be immediately replaced.

C. The Landscape Contractor shall be available for any meetings with the Owner and/or Landscape Architect during implementation of the job. Any additional work or changes required as a result of failure to communicate with the Owner or Landscape Architect during implementation will be the responsibility of the Landscape Contractor.

1.06 PROTECTION OF PUBLIC AND PROPERTY:
A. The Landscape Contractor shall protect all materials and work against injury from any cause and shall provide and maintain all necessary safeguards for the protection of the public. He shall be held responsible for any damage or injury to persons or property which may occur as a result of his fault or negligence in the execution of the work, i.e. damage to underground pipes or cables.

1.07 CHANGES AND EXTRAS:
A. The Contractor shall not start work on any changes or "extras" in the project until a written agreement setting forth the adjusted prices has been executed by the Owner and the Contractor. Any work performed on changes or "extras" prior to execution of a written agreement may or may not be compensated for by the Owner at his discretion.

1.08 GUARANTEE:
The Landscape Contractor shall furnish a written guarantee warranting all materials, workmanship and plant materials, except sod, for a period of 18 MONTHS from the time of completion and acceptance by the Landscape Architect and Owner. Sod shall be guaranteed to 90 calendar days after acceptance by the Landscape Architect and Owner. All plant material shall be alive and in satisfactory condition and growth for each specific kind of plant at the end of the guarantee period. The guaranteeing of plant material shall be construed to mean complete and immediate replacement with plant material of the same variety, type, size, quality and grade as that of the originally specified material. During the guarantee period it shall be the Landscape Contractor's responsibility to immediately replace any dead or unhealthy material as determined by the Landscape Architect. The guarantee will be null and void if plant material is damaged by lightning, hurricane force winds, or any other acts of God, as well as vandalism or lack of proper maintenance.

B. At the end of the specified guarantee period, any plant required under this contract that is dead or not in satisfactory condition, as determined by the Landscape Architect, shall be replaced. The Landscape Contractor shall be responsible for the full replacement cost of plant materials for the first replacement and share subsequent replacement (s) costs equally with the Owner, should the replacement plant fail to survive.

1.09 CARE AND MAINTENANCE:
A. The Landscape Contractor shall be responsible for the care and maintenance of all plant materials and irrigation when applicable until final acceptance by the Owner or Landscape Architect.

B. The Owner agrees to execute the instructions for such care and maintenance.

1.10 SAFETY:
A. It shall be the responsibility of the Landscape Contractor to protect all persons from injury and to avoid property damage. Adequate warning devices shall be placed and maintained during the progress of the work.

B. It shall be the contractor's responsibility to conform to all local, state, and federal safety laws and codes including the Federal Occupational Safety And Health Act (O.S.H.A.).

1.11 CONTRACTOR QUALIFICATION:
A. The Owner may require the apparent contractor (s) to qualify him/herself to be a responsible entity by furnishing any or all of the following documentary data:
1. A financial statement showing assets and liabilities of the company current to date.
2. A listing of not less than (3) completed projects of similar scope and nature.
3. Permanent name and address of place of business.
4. The number of regular employees of the organization and length of time the organization has been in business under the present name.

1.12 INSURANCE AND BONDING:
A. The contractor (s) shall submit proof of insurance for this job for the time period that the work is done. The minimum amount of insurance shall be $300,000.00 per person and $300,000.00 per aggregate or as required by owner and agreed to in the contract. The successful bidder shall be required to have this coverage in effect before beginning work on the site.

B. The Owner shall have the right to require the Contractor to furnish bonds covering faithful performance of the Contract and payment obligations arising thereunder as stipulated in bidding requirements or specifically required in the Contract Documents on the date of execution of the Contract.

1.13 PERMITS AND CERTIFICATES:
A. All contractors shall secure and pay for all permits and certificates required for his/her class of work.

PART 2: MARTERIALS

2.01 PLANT MATERIALS:
A. A complete list of plants is shown on the drawings, including a schedule of quantities, sizes, and such other requirements deemed necessary. In the event discrepancies occur, the specifications on the drawings shall govern.

B. Substitutions: Substitutions of plant materials or changes in size or spacing of materials will be permitted ONLY upon written authorization by the Owner or the Landscape Architect. If plant material is not of sufficient size to meet applicable codes, a letter of variance from the appropriate agency must be obtained by the Contractor prior to issuance of any change order. If material of smaller size is to be accepted, the quantity of material shall be increased, at no additional cost to the Owner, to meet the intent of the drawings.

C. All plant materials shall have a habit of growth that is normal for the species and shall be healthy, vigorous and equal to or exceed the measurements specified in the plant list, which are the minimum acceptable sizes. Plants shall be measured before pruning with branches in normal position. Any necessary pruning shall be done at the time of planting.

D. All plant materials shall be nursery grown, unless otherwise noted, Florida #1 or better and shall comply with all required inspections, grading standards and plant regulations as set forth by the Florida Department of Agriculture's Grades and Standards for Nursery Plants, most current addition and Grades and Standards for Nursery Plants, most current addition.

E. Plants that do not have the normal balance of height and spread typical for the respective plant shall not be acceptable.

F. The Landscape Contractor shall install each plant to display its best side. Adjustments may be required if plants are not installed properly and/or approved by the Landscape Architect at no additional cost to owner.

2.02 INSPECTION

A. The Landscape Architect and Owner may inspect trees and shrubs at place of growth or at site before planting, for compliance with requirements for genus, species, variety, size and quality. The Landscape Architect and Owner retain the right to further inspect trees and shrubs for size and condition of balls and root systems, insects, injuries and latent defects, and to reject unsatisfactory or defective material at any time during progress of work. Rejected plant materials shall be immediately removed from project site.

2.03 PROTECTION OF PLANT MATERIALS:
A. Balled and burlapped plants (B & B) shall be dug with firm natural balls of earth of sufficient diameter and depth to encompass the fibrous and feeding root system necessary for full recovery of the plant. Balls shall be firmly wrapped with burlap similar materials and bound with cord, rope, or wire mesh. All collected plants shall be balled and burlapped.

B. Plants with broken, damaged or insufficient rootballs will be rejected.

C. All plant material shall be protected from possible bark injury or breakage of branches. All plants transported by open trucks shall be adequately covered to prevent windburn, drying or damage to plants.

D. Plants which cannot be planted immediately on delivery to the site shall be covered with moist soil, mulch or other protection from the drying of wind and sun. All plants shall be watered as necessary by the Landscape Contractor until planted.

2.04 STORAGE
A. All plant materials shall be stored on the site in designated areas, specified by the Landscape Architect or Owner's agent.

B. No plant material shall be stored longer than seventy-two (72) hours unless approved by Landscape Architect and/or owner.

C. The Landscape Architect reserves the right to reject any plant materials not in conformance with these specifications.

D. All rejected material shall be immediately removed from the site and replaced with acceptable material at no cost to the Owner.

2.05 PROTECTION DURING PLANTING:
A. Trees moved by winch or crane shall be thoroughly protected from chain marks, girdling or bark slippage by means of burlap, wood battens or other approved methods. Battens shall NOT be attached to the tree with nails

2.06 TOP SOIL:
A. Planting soil for all plantings shall consist of topsoil and be natural, friable, fertile, fine loamy soil possessing characteristics of representative topsoil in the vicinity of the project site that produces heavy growth. Topsoil shall have a PH range of 5.5-7.4, free from subsoil, weeds, litter, sods, clay, stones, stumps, roots, trash, herbicides, toxic substances, or any other material which may be harmful to plant growth, or hinder planting operations. Topsoil shall contain a minimum of 3% organic material. Topsoil must percolate water at a rate of 1" per hour (See also drainage testing detail for trees)

B. Landscape Area Preparation. The intent of this section is to ensure a healthy growing environment for all planting material in all landscaped areas. Landscape Contractor to examine existing soils prior to planting to ensure conformance to all definitions of "Topsoil" (seeLandscape Area Preparation Detail); In addition, a 3" layer of high organic (min 40%) potting soil shall be added to the topsoil and mixed in at time of planting. *East Coast Recycling Inc.* is a recommended source for imported Topsoil (if needed) as well as the top 3" layer of potting soil.

Existing soils must meet all definitions of 'Topsoil' as described above in all planting areas throughout the site. If existing soils do not meet all definitions of Topsoil, please refer to the 'Landscape Area Preparation' detail. Examination may require existing soils to be tested by an accredited testing laboratory. Should a soil test be necessary, Contractor shall contact soil testing lab directly to confirm such lab's soil collection and transmittal protocol; all costs if any shall be borne by the Contractor. Contractor shall provide to Landscape Architect for review the results of the soil test if conducted. Contractor shall schedule an on-site meeting with Landscape Architect to review existing and/or imported soils prior to planting. The Landscape Area Preparation is the responsibility of the Landscape Contractor. He/she shall except all responsibility of planting soils and shall honor all guarantee items in section 1.08.

2.07 FERTILIZER:
A. Commercial fertilizer shall comply with the state and local fertilizer laws. Nitrogen shall not be less than 40% from organic source. Inorganic chemical nitrogen shall not be derived from the sodium form of nitrate. Fertilizers shall be delivered to the site in unopened original containers, each bearing the manufacturer's guaranteed analysis. Any ferilizer that becomes caked or otherwise damaged shall be rejected.

B. Thoroughly mixed 3 lbs. of commercial fertilizer to each cubic yard of planting soil.

C. Tabletized fertilizer shall be Agriform planting tablets 20-10-5 formula, 21 gram or equal. All trees and shrubs shall be fertilized with tabletized fertilizer as follows. While backfilling plant holes, fertilizer tablets shall be equally spaced and placed adjacent to the ball mid-way in depth in accordance with the following rates:

1 gallon container 1 tablet
3 gallon container 2 tablets
5 gallon container 3 tablets
7 gallon container 5 tablets

Large tubs, wire baskets, grow bags, and balled and burlapped material shall have 1 tablet for each 1/2 inch of trunk diameter (measured 3 feet from ground) or for each foot of height or spread of larger shrub material. The Landscape Architect reserves the right to inspect and review the application of fertilizer.

2.08 MULCH:
A. Mulch material shall be clean, dry, free of weeds, seeds and pests, moistened at the time of application to prevent wind displacement. Cypress &/or Red mulch is prohibited.

B. All trees and shrub beds shall receive 3" mulch immediately after planting and thoroughly watered. Apply 2" max on tree & palm rootballs, keep 6" away from tree & palm trunks or as required by local jurisdiction.

PART 3 EXECUTION
3.01 DIGGING:
A. The Landscape Contractor shall exercise care in digging and other work so as not to damage existing work, including overhead wires, underground pipes and cables and the pipes and hydrants of watering systems. Should such overhead or underground obstructions be encountered which interfere with planting, the Owner shall be consulted and contractor will adjust the location of plants to clear such obstruction. The Contractor shall be responsible for the immediate repair of any damage caused by his work.

3.02 GRADING:
A. Grading for drainage, swales, etc. to within 4 inches of the finished grade to be provided by others.

B. It shall be the responsibility of the Landscape Contractor to provide the final grading during the course of landscape installation so as to bring sod and planting areas to their proper elevations in relation to walks, paving, drain structures, and other site conditions. The site grading plan must be checked prior to installation of sod to insure that drainage and other conditions will NOT be modified.

3.03 PLANTING:
A. Planting shall take place during favorable weather conditions.

B. The Contractor shall call for utility locates and ascertain the location of all utilities and easements so proper precautions can be taken not to damage or encroach on them.

C. Tree Planting shall be located where it is shown on the plan. No planting holes shall be dug until the proposed locations have been staked on the ground by the Contractor.

D. Excavation of holes shall extend to the required subgrades as specified on the planting diagrams located in the landscape plans. Plant pits shall be circular in outline and shall have a profile which conforms to the aforementioned "Tree and Shrub Planting Diagrams".

E. A representative number of planting pits (a minimum of one in every 25 feet throughout the entire site) shall be tested for proper drainage. See Landscape Details for complete testing methods and requirements.

F. Planting pits shall be excavated to the following dimensions and backfilled with Topsoil- see Landscape Area Preparation Detail;
1 Gallon material (1 gal.): 12" x 12" x 12" min.
3 Gallon material (3 gal.): 20" x 20" x 18" min.
Lerio material (7 gal.): 30" x 30" x 24" min.
Field grown material and trees: 1-1/2 times width of ball and depth of ball plus 12" min.

G. No planting or laying of sod shall be initiated until the area has been cleaned of existing sod or other plant materials, rough grass, weeds, debris, stones etc. and the ground has been brought to an even grade, with positive drainage away from buildings and towards drain inlets and swales and approved by Landscape Architect or owner's rep.

H. Each plant shall be planted in an individual hole as specified for trees, shrubs, and vines.

I. All plants shall be set to ultimate finished grade. No filling will be permitted around trunks or stems. All ropes, wire, stakes, etc., shall be removed from sides and top of the ball and removed from hole before filling in.

J. All flagging ribbon shall be removed from trees and shrubs before planting.

K. Excess excavation (fill) from all holes shall be removed from the site, at no additional expense to Owner.

L. All palms shall be backfilled with sand, thoroughly washed in during planting operations and with a shallow saucer depression left at the soil line for future watering's. Saucer areas shall be top-dressed two (2") inches deep with topsoil raked and left in a neat, clean manner.

3.04 PRUNING:
A. Remove dead and broken branches from all plant material. Prune to retain typical growth habit of individual plants with as much height and spread as possible in a manner which will preserve the plant's natural character.

B. Make all cuts with sharp instruments flush with trunk or adjacent branch, in such a manner as to insure elimination of stubs. Cuts made at right angles to line of growth will not be permitted.

C. Trees shall not be poled or topped.

D. Remove all trimming from site.

3.05 GUYING:

A. All trees over six (6') feet in height shall, immediately after setting to proper grade, be guyed with three sets of two strands, No. 12 gauge malleable galvanized iron, in tripod fashion. See Detail.

B. Wires shall not come in direct contact with the tree but shall be covered with an approved protection device at all contact points. Wires shall be fastened in such a manner as to avoid pulling crotches apart.

C. Stake & Brace all trees larger than 12' oa. See detail. Stakes shall be 2" x 2" lumber of sufficient length to satisfactorily support each tree.

D. Turnbuckles for guying trees shall be galvanized or cadmium plated and shall be of adequate size and strength to properly maintain tight guy wires.

3.06 WATER:
A. Each plant or tree shall be thoroughly watered in after planting. Watering of all newly installed plant materials shall be the responsibility of the Landscape Contractor until final acceptance by the Landscape Architect.

B. Prior to installing any irrigation system components, the contractor shall obtain a water sample from the proposed water supply and conduct a particle size and count analysis on the sample using the services of a reputable lab certified in such analysis. Submit the test results to the owner/owner's representative for review and approval. Do not proceed further with system installation until given written approval to do so.

3.07 SOD:
A. The Landscape Contractor shall sod all areas indicated on the drawings.

B. It shall be the responsibility of the Landscape Contractor to fine grade all landscape areas, eliminating all bumps, depressions, sticks, stones, and other debris.

C. The sod shall be firm, tough texture, having a compacted growth of grass with good root development. It shall contain no noxious weeds, or any other objectionable vegetation, fungus, insects, or disease. The soil embedded in the sod shall be good clean earth, free from stones and debris.

D. Before being cut and lifted, the sod shall have been mowed at least three times with a lawn mower, with the final mowing not more than seven days before the sod is cut. The sod shall be carefully cut into uniform dimensions.

E. 6-6-6 fertilizer with all trace elements is to be applied at the rate of 40 lbs. per 1,000 sq. ft. prior to laying sod.

F. Solid sod shall be laid with closely abutting, staggered joints with a tamped or rolled, even surface.

G. The finished level of all sod areas after settlement shall be one (1") inch below the top of abutting curbs, walks, paving and wood borders to allow for building turf.

H. If in the opinion of the Landscape Architect, top dressing is necessary after rolling, clean yellow sand will be evenly applied over the entire surface and thoroughly washed in.

3.08 SEEDING:
A. The Landscape Contractor shall remove all vegetation and rocks larger than (1") in diameter from areas to be seeded, scarify the area, then apply fertilizer at a rate of 500 lbs. per acre.

B. Application: Argentine Bahia Grass seed- 200 Pounds per acre mixed with common hulled Bermuda seed- 30 lbs. per acre. All other seed mixtures shall be applied per the manufacturer's instructions.

C. Roll immediately after seeding with a minimum 500 pound roller, then apply straw mulch at the rate of 2,500 pounds per acre.

D. Apply fertilizer at the rate of 150 lbs. per acre 45-60 days after seeding.

3.09 CLEANING UP:
A. The contractor shall at all times keep the premises free from accumulations of waste materials or rubbish caused by his employees or work. He shall leave all paved areas "broom clean" when completed with his work.

3.10 MAINTENANCE:
A. Maintenance shall begin immediately after each plant is installed and shall continue until all planting has been accepted by the Owner or Landscape Architect. Maintenance shall include watering, weeding, removal of dead materials, resetting plants to proper grades or upright positions, spraying, restoration of planting saucer and/or any other necessary operations.

B. Proper protection to lawn areas shall be provided and any damage resulting from planting operations shall be repaired promptly.

C. Replacement of plants during the maintenance period shall be the responsibility of the Contractor, excluding vandalism or damage on the part of others, lighting, or hurricane force winds, until final acceptance.

D. In the event that weeds or other undesirable vegetation become prevalent, it shall be the Contractor's responsibility to remove them.

E. Trees or other plant material which fall or are blown over during the maintenance period will be reset by the Contractor at no additional expense to the Owner, the only exception being hurricane force winds.

3.11 COMPLETION, INSPECTION AND ACCEPTANCE:
A. Completion of the work shall mean the full and exact compliance and conformity with the provisions expressed or implied in the Drawings and in the Specifications, including the complete removal of all trash, debris, soil or other waste created by the Landscape Contractor.

B. Inspection of work to determine completion of contract, exclusive of the possible replacement of plants, will be made by the Owner and/or Landscape Architect at the conclusion of all planting and at the request of the Landscape Contractor.

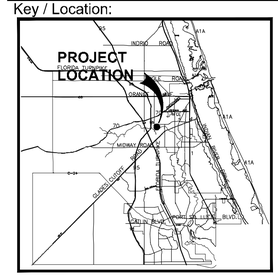
C. All plant material shall be alive and in good growing condition for each specified kind of plant at the time of acceptance. The rating of each plant according to Florida Grades and Standards shall be equal to or better than that called for on the plans and in these Specifications at the time of final inspection and acceptance.

D. After inspection, the Landscape Contractor will be notified by the Owner of the acceptance of all plant material and workmanship, exclusive of the possible replacement of plants subject to guarantee.

E. All trees & shrubs shall be straight and in correct position per the landscape plans, details and specifications. All nursery, shipping and identification tags & ribbons shall be removed from trees & shrubs immediately after planting.

lucido & associates
701 SE Ocean Blvd., Stuart, Florida 34994 (772) 220-2100, Fax (772) 223-0220

Key / Location:



N.T.S.

Project Team:

Applicant: S.R. Enterprises, LLC
1621 N. US1
Fort Pierce, FL 34946

Land Planner / Landscape Architect: Lucido & Associates
701 Southeast Ocean Boulevard
Stuart, Florida 34994

Legal Counsel: W. Lee Dobbing, Esq.
Dean, Mead, Minton & Zwimmer
1903 S. 25th Street, Suite 200
Fort Pierce, FL 34947

Jenkins Road KOA

Fort Pierce, Florida

Specifications
Minor Adjustment #1

Date	By	Description
9.5.17	JJ	Initial Submittal
10.10.17	DC	Resubmittal
2.20.18	JJ	Resubmittal
11.01.18	SAW	Minor Adjustments #1

NORTH

SCALE: 1" = n.t.s.

0 0' 0' 0'

REG. # 1018
Thomas P. Lucido

Designer	JJ
Manager	BN
Project Number	17-445
Municipal Number	---
Computer File	17-446 Jenkins Road KOA - Minor Adjustment -

Sheet **LA-5**

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City Commission Regular Meeting **11.c.**

Meeting Date: 12/17/2018

Re: Kimley-Horn Specific Authorization No. 6 (RFQ 2013-005) - Citrus Avenue Bridge Rehabilitation

Submitted For: John Andrews, City Engineer, Engineering

SUBJECT:

Request approval of Kimley-Horn & Associates, Inc. Specific Authorization No. 6 in an amount not to exceed $65,916 to provide professional engineering services relating to the rehabilitation of the Citrus Avenue bridge.

SUMMARY:

A 2016 Florida Department of Transportation bridge inspection (attached) uncovered numerous structural and non-structural deficiencies located within the Citrus Avenue bridge. This specific authorization will authorize Kimley-Horn to prepare engineering plans and a specification package to address and rehabilitate the noted issues.

RECOMMENDATION:

Staff recommends approval

ALTERNATIVES:

Disregard and negotiate with another consultant on the City's list of continuing service providers

RESPONSIBLE STAFF:

Engineering

COORDINATED WITH:

FDOT

Fiscal Impact

Budgeted Y/N:	Y
Fiscal Year:	2019
Account:	00160005136310
Amount:	$65,916

FISCAL IMPACT:

The $65,916 shall be encumbered from the City's Roads and Bridges account, account number 001-6000-513-6310

Attachments

FDOT Bridge Inspection Report

SA No. 6

Form Review

Inbox	Reviewed By	Date
Finance Department	Johnna Morris	12/11/2018 03:51 PM
City Manager	Nick Mimms	12/12/2018 11:47 AM
Form Started By: Tracy Telle		Started On: 12/03/2018 07:34 AM
Final Approval Date: 12/12/2018		

KCA | KISINGER CAMPO & ASSOCIATES

RECEIVED
FEB 24 2017
CITY OF FORT PIERCE
ENGINEERING DEPARTMENT

February 20, 2017

Mr. Jack Andrews, P.E.
City of Ft. Pierce
P.O. Box 1480
Ft. Pierce, Florida 34954

RE: Bridge Inspection Report Submittals to Local Owners
District Four Bridge Inspection Report

Dear Mr. Andrews:

The following inspection reports are attached for your review:

Bridge No.	Inspection Type	Inspection Date	Dive Date	Analysis Type	Analysis Date
940047	Routine	12/15/16	N/A	N/A	N/A
945009	Routine	12/13/16	N/A	N/A	N/A

If you have any questions, please e-mail (tlocicero@kisingercampo.com) or call me at (813) 871-5331, ext. 5009.

Sincerely,

Thomas A. LoCicero, P.E.
Bridge Structures Engineer

TAL:AC
Enclosures
Cc: Ray Radman, FDOT Consultant Inspection Project Manager
Patrick O'Grady, CBI, KCA Bridge Inspection Department Manager
David Crissey, CBI, KCA Bridge Inspection Supervisor
File: CityFtPierce 092515

9270 Bay Plaza Blvd., Suite 605 | Tampa, Florida 33619 | PHONE 813.554.1919 FAX 813.621.8582 | www.kisingercampo.com

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR Report
Inspection

Structure ID: 940047

DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**

BY:	Kisinger Campo and Associates	STRUCTURE NAME:	Not recorded
OWNER:	4 City/Municipal Hwy Agy	YEAR BUILT:	1957
MAINTAINED BY:	4 City/Municipal Hwy Agy	SECTION NO.:	94 100 000
STRUCTURE TYPE:	3 Steel - 02 Stringer/Girder	MP:	0.052
LOCATION:	Citrus Ave/FEC RR	ROUTE:	00707
SERV. TYPE ON:	5 Highway-pedestrian	FACILITY CARRIED:	CR-707(Citrus Ave)
SERV. TYPE UNDER:	2 Railroad	FEATURE INTERSECTED:	FEC Railroad

☐ FUNCTIONALLY OBSOLETE ☐ STRUCTURALLY DEFICIENT

TYPE OF INSPECTION: Regular NBI

DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 12/15/2016 UNDERWATER: N/A

SUFFICIENCY RATING:	93.5
HEALTH INDEX:	49.21

This report contains information relating to the physical security of a structure and depictions of the structure. This information is confidential and exempt from public inspection pursuant to sections 119.071(3)(a) and 119.071(3)(b), Florida Statutes. Only the cover page of this report may be inspected and copied.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR Report
Inspection

Structure ID: 940047

DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**

BY:	Kisinger Campo and Associates	STRUCTURE NAME:	Not recorded
OWNER:	4 City/Municipal Hwy Agy	YEAR BUILT:	1957
MAINTAINED BY:	4 City/Municipal Hwy Agy	SECTION NO.:	94 100 000
STRUCTURE TYPE:	3 Steel - 02 Stringer/Girder	MP:	0.052
LOCATION:	Citrus Ave/FEC RR	ROUTE:	00707
SERV. TYPE ON:	5 Highway-pedestrian	FACILITY CARRIED:	CR-707(Citrus Ave)
SERV. TYPE UNDER:	2 Railroad	FEATURE INTERSECTED:	FEC Railroad

☐ THIS BRIDGE CONTAINS FRACTURE CRITICAL COMPONENTS

☐ THIS BRIDGE IS SCOUR CRITICAL

☐ THIS REPORT IDENTIFIES DEFICIENCIES WHICH REQUIRE PROMPT CORRECTIVE ACTION

☐ FUNCTIONALLY OBSOLETE ☐ STRUCTURALLY DEFICIENT

TYPE OF INSPECTION: Regular NBI

DATE FIELD INSPECTION WAS PERFORMED: ABOVE WATER: 12/15/2016 UNDERWATER: N/A

OVERALL NBI RATINGS:

DECK:	6 Satisfactory	CHANNEL:	N N/A (NBI)
SUPERSTRUCTURE:	6 Satisfactory	CULVERT:	N N/A (NBI)
SUBSTRUCTURE:	7 Good	SUFF. RATING:	93.5
PERF. RATING:	Good	HEALTH INDEX:	49.21

FIELD PERSONNEL / TITLE / NUMBER: **INITIALS**

Carreno, Fernando - Bridge Inspector (CBI#00496) (lead) FC

Beamer, David - Bridge Inspection Technician

REVIEWING BRIDGE INSPECTION SUPERVISOR:

Ferrera, Carlo - Bridge Inspector (CBI#00156)

CONFIRMING REGISTERED PROFESSIONAL ENGINEER:

DeReus, Scott - Professional Engineer (#51907) Kisinger Campo & Associates, Corp
9270 Bay Plaza Boulevard
Certificate of Authorization #2317
Tampa FL 33619

SCOTT D. DEREUS LICENSE No. 51907 STATE OF FLORIDA PROFESSIONAL ENGINEER

SIGNATURE:

DATE: 26 Jan 2017

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FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR Report
Inspection

Structure ID: 940047

DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**

All Elements

This report contains information relating to the physical security of a structure and depictions of the structure. This information is confidential and exempt from public inspection pursuant to sections 119.071(3)(a) and 119.071(3)(b), Florida Statutes. Only the cover page of this report may be inspected and copied.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR Report
Inspection

Structure ID: 940047

DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**

DECKS : Decks/Slabs

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	12 / 3	Re Concrete Deck	0	.	0	.	34739	100	0	.	34739 sq.ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	0	.	50	100	0	.	50 sq.ft
0	1130 / 3	Cracking (RC and Other)	0	.	0	.	34689	100	0	.	34689 sq.ft

Element Inspection Notes:

12 / 3

Note:
Lanes are numbered left to right in the direction of inventory.

CS3:
Deck Top:
There is map and transverse cracking up to 1/64in. wide in the deck top of all spans - NO CHANGE.

The right fascia in Span 1 has a 13ft. x 16in. x 6in. spall/delamination with one exposed longitudinal rebar and eight exposed stirrups with moderate to heavy surface corrosion, starting at the beginning of the utility connection – NO CHANGE. Refer to photo 1.

In Span 8, the right fascia has a 4ft. x 8in. x 3in. spall 10ft. east of Bent 8 – NO CHANGE.

Span 9 westbound, Lane 2 has five spalls up to 1ft. x 6in. x 1in. and associated delaminated concrete around the spalls up to 15.5ft. long x 6ft. wide in between the first and second construction joints – NO CHANGE. Refer to photo 2.

There is a 2ft. x 2ft. x 1/2in. spalled/delaminated area, 8ft. east of the second construction joint, at centerline of Lane 2 – NO CHANGE.

In Spans 2 through 10 along the joint adjacent to the steel headers of the compression seals, there are isolated areas of delaminations and spalls up to 9in. x 5in. x 1-1/4in., with the worst being at Bent 10 - NO CHANGE. Refer to photo 3.

Deck Underside:
The deck underside in Bay 6-2 has a 14in. x 3in. x 3/4in. spall with exposed rebar, 12ft. west of Bent 7 - NO CHANGE. Refer to photo 4.

INCIDENTAL:
In the median of Span 2 at the 1/4 point, there is a 3in. long exposed rebar due to lack of cover - NO CHANGE.

In Span 2, 10ft. west of the Bent 3 joint in the median, there is a minor spall/delamination up to 5in. x 4in. x 1/2in. - NO CHANGE.

The left curb in Span 9 has a 2ft. long x 3in. wide delamination with 1/32in. wide associated cracking with efflorescence - NO CHANGE.

The electrical junction box attached to the left fascia in Span 4 is heavily corroded with 100% section loss - NO CHANGE. Refer to photo 5.

1080 / 3

See Element 12.

1130 / 3

See Element 12.

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FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR Report
Inspection

Structure ID: 940047

DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**

DECKS : Joints

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	301 / 3	Pourable Joint Seal	102	73.91	36	26.09	0	.	0	.	138 ft
0	2330 / 3	Seal Damage	0	.	32	100	0	.	0	.	32 ft
0	2360 / 3	Adjacent Deck or Header	0	.	4	100	0	.	0	.	4 ft

Element Inspection Notes:

301 / 3 Note:
This element represents the pourable joints at Abutments 1 and 11.

CS2:
The east joint header at Abutment 1 has three spalls/delaminations up to 1-1/2ft. x 1-1/2in.; two in Lane 3 and one in Lane 4 - NO CHANGE. Refer to photo 6.

The pourable sealant has light abrasive wear in the wheel paths - NO CHANGE.

2330 / 3 See Element 301.

2360 / 3 See Element 301.

DECKS : Joints

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	302 / 3	Compressn Joint Seal	0	.	0	.	623	100	0	.	623 ft
0	2320 / 3	Seal Adhesion	0	.	0	.	623	100	0	.	623 ft

Element Inspection Notes:

302 / 3 CS3:
The intermediate expansion joints (Bents 2 through 10) have major adhesion failures and/or missing seal along the length of the compression joint seals for the full roadway width - NO CHANGE. Refer to photo 7.

2320 / 3 See Element 302.

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FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR Report
Inspection

Structure ID: 940047

DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	321 / 3	Re Conc Approach Slab	2760	100	0	.	0	.	0	.	2760 sq.ft
0	510 / 3	Wearing Surfaces	2690	97.46	0	.	70	2.54	0	.	2760 sq.ft
0	3220 / 3	Crack (Wearing Surface)	0	.	0	.	70	100	0	.	70 sq.ft

Element Inspection Notes:

321 / 3 Note:
The approach slabs are not visible due to an asphalt overlay.

INCIDENTAL:
At the southwest approach sidewalk, there is a transverse crack 3ft. west of Abutment 1 that is sidewalk width x 3/16in. wide and one 7in. x 5in. delamination adjacent to the southwest end post - NO CHANGE.

There is moderate erosion at all four approach sidewalks - NO CHANGE.

The southeast approach sidewalk is undermined up to 7ft. x 1ft. 3in. x 5ft. back under at Abutment 11 - NO CHANGE.

The southeast approach sidewalk has a transverse crack that is sidewalk width x 1/16in. wide - NO CHANGE.

The southwest approach sidewalk is undermined up to 3ft. x 6in. x 3ft. back under near Abutment 1 - NEW. Refer to photo 8.

The southwest end post is delaminated along the top 4in. - NO CHANGE. (previously noted under Element 333)

The northeast approach slope has a 4ft. x 4ft. x 1ft. 6in. area of erosion exposing the bottom of the approach sidewalk which has a 3ft. long x 1ft. high x 1ft. of penetration area of minor undermining - NO CHANGE.

The northeast end post has a 5in. x 4in. x 1/2in. spall with exposed rebar in the east face - NO CHANGE. Refer to photo 9.

The northwest approach curb traffic face has a 3ft. x 8in. x 4in. spall, 13ft. west of Abutment 1 - NO CHANGE.

510 / 3 CS3:
The asphalt overlay at the west and east approach slab/approach roadway transitions has a roadway width x up to 1/2in. wide transverse crack - NO CHANGE.

3220 / 3 See Element 510

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	215 / 3	Re Conc Abutment	151	100	0	.	0	.	0	.	151 ft

Element Inspection Notes:

215 / 3 INCIDENTAL:
There is trash from vagrants on both abutment caps – NO CHANGE. Refer to photo 10.

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FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR Report
Inspection

Structure ID: 940047

DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	226 / 3	Pre Conc Pile	0	.	111	95.69	5	4.31	0	.	116 (EA)
0	1080 / 3	Delamination/Spall/Patched Area	0	.	111	96.52	4	3.48	0	.	115 (EA)
0	1110 / 3	Cracking (PSC)	0	.	0	.	1	100	0	.	1 (EA)

Element Inspection Notes:

226 / 3 CS3:
Pile 5-12, southwest corner has a 3ft. x 9in. x 1-3/4in. spall, 4ft. up from the groundline - NO CHANGE.

Pile 7-12, east face has a 18in. x 18in. x 1-1/2in. spall/delamination with a 1in. diameter area of corrosion staining at the cap - NO CHANGE. Refer to photo 11.

Pile 10-1, northeast corner has two up to 14in. x 5in. x 3in. spalls; one is 2ft. and the other is 6ft. above the ground line - NO CHANGE.

Pile 10-7, southeast corner has a 2ft. 3in. x 11in. x 1-1/4in. spall, 3ft. above the groundline - NO CHANGE.

Pile 10-10, southeast corner has a 45in. long x 1/32in. wide vertical crack starting 6ft. above the groundline - NO CHANGE.

CS2:
The piles have up to 5in. x 2in. x 1/2in. handling spalls throughout - NO CHANGE.

Pile 7-5, west face has an intermittent 6ft. x 4in. x 1/2in. spall - NO CHANGE.

Pile 9-5, northwest corner has a 6in. x 4in. x 1in. spall at Bent 9 cap - NO CHANGE.

Pile 10-14, southwest corner has a 10in. x 4in. x 1in. spall, 9ft. above the groundline - NO CHANGE.

INCIDENTAL:
The piles at Bents 4 through 9 have moderate to heavy vegetation growth on and around them - NO CHANGE.

Several piles at Bents 8, 9, and 10 have graffiti - NO CHANGE. Refer to photo 12.

1080 / 3 See Element 226.

1110 / 3 See Element 226.

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	234 / 3	Re Conc Pier Cap	0	.	646	99.38	4	0.62	0	.	650 ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	0	.	4	100	0	.	4 ft

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FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR Report
Inspection

Structure ID: 940047

DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**

Element Inspection Notes:

234 / 3 CS3:
Bent 9 cap, east face has a 12in. x 7in. x 3/4in. spall/delamination with exposed rebar over Pile 9-14 - NO CHANGE. Refer to photo 13.

Bent 10 cap, west face has a 10in. x 5in. x 1/2in. spall/delamination with exposed rebar over Piles 10-5 and 10-6 - NO CHANGE.

Bent 10 cap, east face has two up to 6in. x 5in. x 3/4in. spalls with exposed rebar over Pile 10-1 - NO CHANGE.

CS2:
There are random spalls in the east and west faces of the caps throughout - NO CHANGE.

1080 / 3 See Element 234.

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8396 / 3	Other Abutment Slope Protection	5199	100	0	.	0	.	0	.	5199 (SF)

Element Inspection Notes:

8396 / 3 Note:
This element represents the grout topped sand-cement riprap bag slope protection.

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Inspection

Structure ID: 940047

DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**

SUPERSTRUCTURE : Bearings

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	311 / 3	Moveable Bearing	0	.	90	90	10	10	0	.	100 each
0	1000 / 3	Corrosion	0	.	90	90	10	10	0	.	100 each
0	8516 / 3	Painted Steel	0	.	1200	100	0	.	0	.	1200 sq.ft
0	3420 / 3	Peel/Bub/Crack(Stl Protect Coat)	0	.	1200	100	0	.	0	.	1200 sq.ft

Element Inspection Notes:

311 / 3

CS3:
The bearings at Bent 9 show heavy flaking corrosion and pitting on the masonry plates and bearing assemblies throughout - INCREASE. Refer to photo 14.

CS2:
Typically, the bearings at the intermediate bents have light to moderate surface corrosion on the masonry plates and bearing assemblies with isolated bearing anchor bolts having moderate to heavy surface corrosion - INCREASE. Refer to photo 15.

The south anchor bolt for Bearing 9-10 at Bent 9 and the north anchor bolt for Bearing 10-3 at Bent 10 are sheared - NO CHANGE. Refer to photo 16.

The north anchor bolt nut for Bearing 9-10 is not fully seated and the bolt has heavy surface corrosion - NO CHANGE. Refer to photo 17.

1000 / 3

See Element 311.

8516 / 3

CS2:
The protective coating is deteriorated throughout, with areas of peeling, bubbling and chalking paint along the masonry plate and bearing assemblies - INCREASE. Refer to photo 15.

3420 / 3

See Element 8516.

SUPERSTRUCTURE : Bearings

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	313 / 3	Fixed Bearing	0	.	64	64	36	36	0	.	100 each
0	1000 / 3	Corrosion	0	.	0	.	36	100	0	.	36 each
0	8516 / 3	Painted Steel	0	.	1200	100	0	.	0	.	1200 sq.ft
0	3420 / 3	Peel/Bub/Crack(Stl Protect Coat)	0	.	1200	100	0	.	0	.	1200 sq.ft

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FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
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Inspection

Structure ID: 940047

DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**

Element Inspection Notes:

313 / 3 CS3:
The fixed bearings for the beams at Abutment 1, Beams 6-5, 6-6, 6-9, 7-4, 7-5, 7-6, 7-7, 7-8, 8-3, 8-4, 10-2, 10-3, 10-5, 10-6, 10-7, 10-8 and for the beams at Abutment 11 have heavy flaking corrosion on the masonry plates and bearing assemblies with pitting/section loss anywhere from 1/8in. to 3/16in. deep - INCREASE. Refer to photo 18.

CS2:
Typically, the bearings at the intermediate bents have light to moderate surface corrosion on the masonry plates and bearing assemblies with isolated bearing anchor bolts having moderate to heavy surface corrosion - NO CHANGE. Refer to photo 19.

The north anchor bolt nut for Bearing 9-2 at Bent 10 has 100% section loss - NO CHANGE.

1000 / 3 See Element 313.

8516 / 3 CS2:
The protective coating is deteriorated throughout, with areas of peeling, bubbling and chalking paint along the masonry plate and bearing assemblies - INCREASE. Refer to photo 19.

3420 / 3 See Element 8516.

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	107 / 3	Steel Opn Girder/Beam	2310	46.02	0	.	2710	53.98	0	.	5020 ft
0	1000 / 3	Corrosion	0	.	0	.	2710	100	0	.	2710 ft
0	8516 / 3	Painted Steel	16735	50	0	.	16735	50	0	.	33470 sq.ft
0	3420 / 3	Peel/Bub/Crack(Stl Protect Coat)	0	.	0	.	16735	100	0	.	16735 sq.ft

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FLORIDA DEPARTMENT OF TRANSPORTATION
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DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**

Element Inspection Notes:

107 / 3 CS3:
In the beam ends, corrosion is accelerated due to the deteriorated intermediate bent expansion joints - INCREASE.

The web of the beams at the end diaphragms and several intermediate diaphragms have areas of heavy flaking corrosion up to 8in. long x up to 4in. wide with pitting up to 1/8in. deep - INCREASE. Refer to photo 20.

Beam 3-2 has a 1in. diameter corrosion through hole in the web at the end diaphragm over Bent 3 - NEW.

Beam 4-2 has a 2-1/2in. diameter corrosion through hole in the web at the end diaphragm over Bent 4 – NO CHANGE. Refer to photo 21.

The beams have moderate surface corrosion along the bottom face of the bottom flanges and on the webs intermittently throughout – INCREASE. Refer to photo 22.

The top face of the bottom flanges has random areas of moderate to heavy flaking corrosion throughout – INCREASE. Refer to photo 23.

The top outside flanges of the exterior beams have light to moderate surface corrosion along the deck - INCREASE.

INCIDENTAL:
There are up to 1ft. diameter holes, some with exposed rebar, in the concrete diaphragms at Bents 2 through 6 and 8 through 10 in Bays 1 and 10 - NO CHANGE.

The mid-span diaphragm in Bay 1-3 has a 1-1/2ft. x 8in. x 1in. spall with two exposed rebar with heavy surface corrosion – NO CHANGE.

The diaphragm in Bay 2-3 over Bent 2 has two 7in. x 4in. x 1/2in. spalls with exposed rebar - NO CHANGE.

The end diaphragms in Bays 10-2 and 10-9 at Abutment 11 each have an up to 28in. x 6in. x 1-1/2in. spall with exposed and corroded rebar in the bottom face - NO CHANGE.

There are loose mounting bolts for the diaphragms at Beams 5 and 6 of all spans in random locations – NO CHANGE.

There is graffiti on the beams in Spans 1 and 10 – NO CHANGE. Refer to photo 24.

1000 / 3 See Element 107.

8516 / 3 CS3:
The protective coating is deteriorated throughout, with areas of peeling, bubbling and chalking paint along the webs, top and bottom flanges - INCREASE. Refer to photo 22.

3420 / 3 See Element 8516.

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	333 / 3	Other Bridge Railing	809	80.58	176	17.53	19	1.89	0	.	1004 ft
0	1000 / 3	Corrosion	0	.	176	100	0	.	0	.	176 ft

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DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**

0	1080 / 3	Delamination/Spall/Patched Area	0	.	0	.	19	100	0	.	19 ft

Element Inspection Notes:

333 / 3 CS3:
Bridge rail Panel 9-7 Right has a spall with exposed rebar in bottom south edge 3-1/2in. x 1in. x 1/4in. - NO CHANGE.

Bridge rail Panel 10-1 Right over Bent 10 has a 1ft. x 6in. x 2in. spall with exposed rebar - NO CHANGE.

Bridge rail Panel 10-5 Left has a 1ft. x 6in. x 1in. spall with exposed rebar in the bottom north edge – NO CHANGE.

Bridge rail Panel 10-6 Left has a 6in. x 6in. x 1in. spall with exposed rebar in the bottom north edge – NO CHANGE. Refer to photo 25.

There are intermittent spalls with exposed rebar throughout bridge rail posts – NO CHANGE. The following is a list of bridge rail posts have spalls with exposed rebar measuring up to 7in. x 2in. x 1in.:

Posts:
5-6 Left, northeast and northwest corners
5-8 Left, northwest corner
7-8 Left, southwest corner
8-8 Left, northwest corner
9-8 Left, southwest corner
9-9 Left, southwest corner

3-3 Right, southeast and southwest corners
4-1 Right, southeast corner
5-2 Right, southeast corner
5-8 Right, north face
6-9 Right, southeast corner
8-1 Right, southeast corner
9-8 Right, northwest corner
9-9 Right, northeast corner
10-5 Right southeast corner

CS2:
The attachment hardware for the aluminum rail has light to moderate surface corrosion - NO CHANGE.

INCIDENTAL:
The end caps of the aluminum rail in Spans 9 and 10 are missing - NO CHANGE.

Stanchions 4-3 Left, 8-3 Left, 10-8 Left, 10-7 Right, and 10-8 Right are each missing one of four anchor bolt nuts – NO CHANGE. Refer to photo 26.

The light pole in Span 6 right side and Span 8 left side are each missing one of two access hatch screws – NO CHANGE.

There is graffiti on the west face of southwest end post - NO CHANGE.

1000 / 3 See Element 333.

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FLORIDA DEPARTMENT OF TRANSPORTATION
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Structure ID: 940047

DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**

1080 / 3	See Element 333.

Total Number of Elements*: 12
*excluding defects/protective systems

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Structure ID: 940047
DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**

Inspector Recommendations

UNIT: 0 **DECKS**

ELEMENT/ENV: 12 / 3 Re Concrete Deck **ELEM CATEGORY: Decks/Slabs**

CONDITION STATE		PRIORITY
3	MMS Quantity: 1 sf Element Estimated Quantity: 34739 sq.ft	3

WORK ORDER RECOMMENDATION:
Replace the corroded junction box on the left fascia of Span 4. 10MH

ELEMENT/ENV: 12:1080 / 3 Delamination/Spall/Patched Area **ELEM CATEGORY: Decks/Slabs**

CONDITION STATE		PRIORITY
3	MMS Quantity: 50 sf Element Estimated Quantity: 50 each	3

WORK ORDER RECOMMENDATION:
Repair the spalls and delaminations in the right fascia in Spans 1 and 8. 10MH

3	MMS Quantity: 50 sf Element Estimated Quantity: 50 each	3

WORK ORDER RECOMMENDATION:
Repair the spalls and delaminations in the deck top. 10MH

UNIT: 0 **MISCELLANEOUS**

ELEMENT/ENV: 311:8516 / 3 Painted Steel **ELEM CATEGORY: Other Elements**

CONDITION STATE		PRIORITY
2	MMS Quantity: 1200 mh Element Estimated Quantity: 1200 (SF)	3

WORK ORDER RECOMMENDATION:
Clean and paint all moveable bearings. 80MH

ELEMENT/ENV: 321 / 3 Re Conc Approach Slab **ELEM CATEGORY: Other Elements**

CONDITION STATE		PRIORITY
1	MMS Quantity: 2 sf Element Estimated Quantity: 2760 sq.ft	3

WORK ORDER RECOMMENDATION:
Repair the undermining along the southwest and southeast approach sidewalks. 8MH

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FLORIDA DEPARTMENT OF TRANSPORTATION
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Structure ID: 940047
DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**

Inspector Recommendations

UNIT: 0 **SMART FLAG**

ELEMENT/ENV: 226:1080 / 3 Delamination/Spall/Patched Area **ELEM CATEGORY: Defect**

CONDITION STATE		PRIORITY
2 , 3	MMS Quantity: 4 mh Element Estimated Quantity: 115 each	3

WORK ORDER RECOMMENDATION:
Repair the delaminations and spalls in Piles 5-12 7-12 10-1 and 10-7. 10MH

ELEMENT/ENV: 301:2360 / 3 Adjacent Deck or Header **ELEM CATEGORY: Defect**

CONDITION STATE		PRIORITY
2	MMS Quantity: 4 lf Element Estimated Quantity: 138 each	3

WORK ORDER RECOMMENDATION:
Repair the spalls and delaminations in Abutment 1 joint header. 10MH

ELEMENT/ENV: 302:2320 / 3 Seal Adhesion **ELEM CATEGORY: Defect**

CONDITION STATE		PRIORITY
3	MMS Quantity: 623 lf Element Estimated Quantity: 623 each	3

WORK ORDER RECOMMENDATION:
Repair the failed seals throughout Bents 2 thru 10. 80MH

ELEMENT/ENV: 313:8516:3420 / 3 Peel/Bub/Crack(Stl Protect Coat) **ELEM CATEGORY: Defect**

CONDITION STATE		PRIORITY
2	MMS Quantity: 1200 mh Element Estimated Quantity: 100 each	3

WORK ORDER RECOMMENDATION:
Clean and paint all fixed bearings. 80MH

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Structure ID: 940047
DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**

Inspector Recommendations

UNIT: 0 **SUPERSTRUCTURE**

ELEMENT/ENV: 107 / 3 Steel Opn Girder/Beam **ELEM CATEGORY: Superstructure**

CONDITION STATE		PRIORITY
1 , 3	MMS Quantity: 20 mh Element Estimated Quantity: 5020 ft	3

WORK ORDER RECOMMENDATION:
Remove the graffiti on the beams in Span 10. 8MH

CONDITION STATE		PRIORITY
1 , 3	MMS Quantity: 36 mh Element Estimated Quantity: 5020 ft	3

WORK ORDER RECOMMENDATION:
Remove graffiti on Bent 8 9 and 10 piles. 16MH

ELEMENT/ENV: 107:8516 / 3 Painted Steel **ELEM CATEGORY: Superstructure**

CONDITION STATE		PRIORITY
1 , 3	MMS Quantity: 16735 mh Element Estimated Quantity: 5020 (SF)	3

WORK ORDER RECOMMENDATION:
Clean and paint the steel beams. 80MH

ELEMENT/ENV: 333 / 3 Other Bridge Railing **ELEM CATEGORY: Superstructure**

CONDITION STATE		PRIORITY
1 , 2 , 3	MMS Quantity: 176 lf Element Estimated Quantity: 1004 ft	3

WORK ORDER RECOMMENDATION:
Install missing anchor bolt nuts at Stanchions 8-3 left 10-8 left 10-7 left and 10-8 right. 4MH

ELEMENT/ENV: 333:1080 / 3 Delamination/Spall/Patched Area **ELEM CATEGORY: Superstructure**

CONDITION STATE		PRIORITY
3	MMS Quantity: 19 lf Element Estimated Quantity: 1004 each	3

WORK ORDER RECOMMENDATION:
Repair the spalls with exposed rebar in the bridge rail panels. 40MH

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Structure ID: 940047
DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**

Structure Notes

BRIDGE OWNER: CITY OF FT. PIERCE

Bridge inventoried from west to east.

TRAFFIC RESTRICTIONS: Based on the current load rating analysis dated 10/17/91, posting is not required. The structure is not posted.

LOAD CAPACITY EVALUATION:
Since the current load rating dated 10/1/91, there is no indication that deterioration, geometric changes or additional dead load have occurred that would warrant a new load rating analysis. This only applies to this inspection dated 12/15/16 per Scott DeReus, P.E.

A 40ft. ladder or bucket van is needed to reach the bearings at the intermediate bents.

Contact Brad at (772) 461-7102 (Rinker Office) or (561) 262-2324 (mobile phone), before the next scheduled inspection. Rinker Concrete and FEC Railroad are the property owners and have the right-of-way for the underside. Bucket van access can be made in Spans 1 through 7 from the Rinker property and Spans 8 through 11 can be made from the intersection of Orange Ave/railroad crossing, just north of the structure.

INSPECTION NOTES: **GAUE** **12/15/2016**

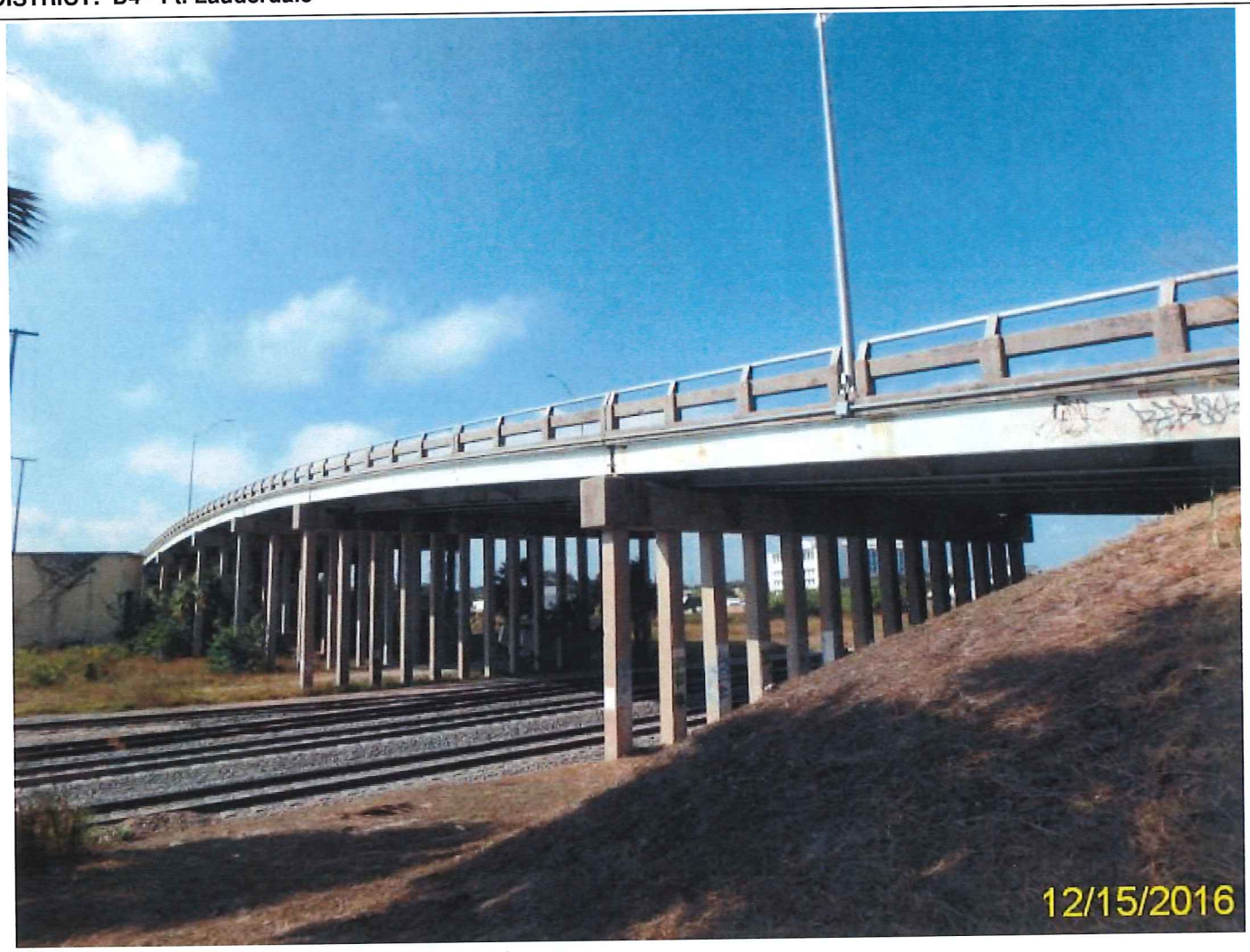
A bucket van was utilized during this inspection.

Sufficiency Rating Calculation Accepted by KNKCADG at 1/26/2017 11:51:09 AM

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SOUTH ELEVATION

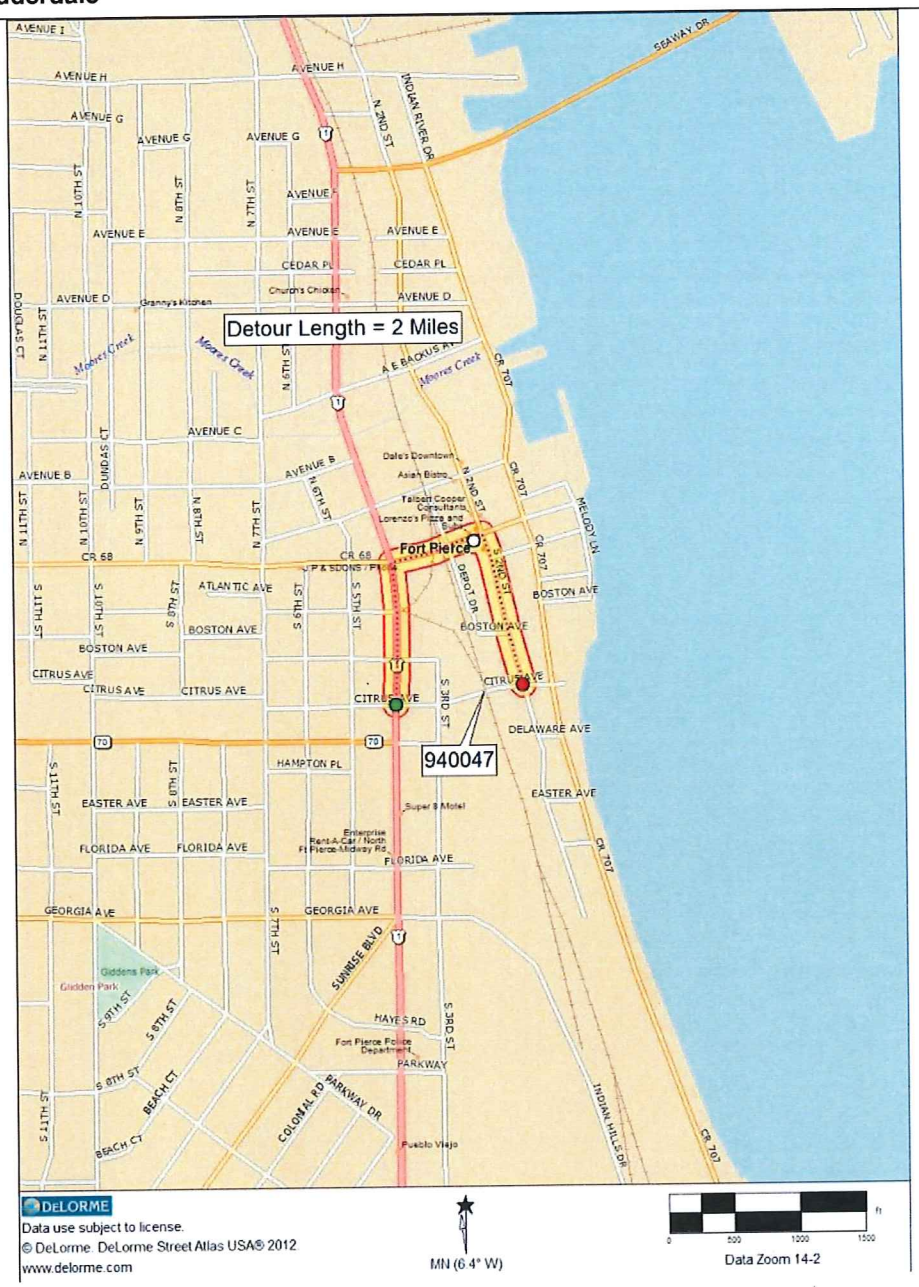
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INSPECTION DATE: 12/15/2016 GAUE



CR-707 (Citrus Ave.) over FEC Railroad

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DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 12/15/2016 GAUE

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
D: LOAD CAPACITY INFORMATION

FORM 850-010-05-s
REPLACES 571-22
MAINTENANCE
05/89

1) BRIDGE NUMBER: 940047 DATE: 10/17/91

2) INVENTORY RATING:
FORM (HS 20) LOADING 35.3
OTHER ( ) LOADING

3) POSTING DATA:
POSTED N/A ; IF YES, EXISTING RESTRICTIONS
POSTING NEEDED ; IF YES, SEE TABLE BELOW.
DATE SIGNS ERECTED

4) GOVERNING SPAN DATA:
A) METHOD OF ANALYSIS:
X LFD
WSD
B) ANALYSIS SYSTEM:
X BARS
BRUFEM
OTHER

C) CONTROLLING FACTORS:
SPAN NO. 1 - 3 & 7
SPAN LTH. 45'4"
DES. VEH. HS20-44
DISTR. F. 1.602 ; DISTR. F. METHOD SALOD
CONTINUOUS NO
V OR M M ; LOC. 22.7'

D) MEMBER ANALYZED:

SUPERSTRUCTURE		SUBSTRUCTURE
PRESTRESSED CONCRETE SECT.	X R/CONC. SECT.	X BENT CONSTR.
AASHTO GIRDERS	X C.I.P. SLAB	X PILING
NON-STANDARD SECT.	PRECAST SLAB	X CAP
BULB-T	BOX CULVERT	PIER CONSTR.
SINGLE-T	C.I.P. BOX	PILING
DOUBLE-T	X STEEL SECT.	FOOTING
HOLLOW VOID SLAB	X I-BEAM	COLUMN
SOLID SLAB	PLATE GIR.	CAP
PRECAST SEGMENTAL BOX	BOX	
POST TENSIONED	COMPOSITE	

5) LOAD RATING SUMMARY TABLE:

LOAD RATING SUMMARY FOR OPERATING RATING (Gross Tons)

LOAD CLASSIFICATION	SPAN NO.		G02			G03			G01			CONTROLLING RATING	RECOMMENDED RESTRICTIONS
	LTH. BRG. TO BRG		65'0"			74'8"			45'4"				
	TYPE OF LOADING	TONS	RATING	SHEAR	MOMENT	RATING	SHEAR	MOMENT	RATING	SHEAR	MOMENT		
FLORIDA LEGAL	SU2	17	62	X		95	X		48	X			
	SU3	33	63	X		86	X		49	X			
	SU4	35	63	X		86	X		49	X			
	C3	28	77	X		102	X		69	X			
	C4	36.6	81	X		106	X		69	X			
	C5	36.6 40.0	82	X		107	X		71	X			
	ST5	36.6	95	X		124	X		74	X			
DESIGN	HS	36	70	X		94	X		59	X		59	59

NOTES:
1. FOR EACH SPAN ANALYZED, ENTER SPAN NUMBER AND BEARING TO BEARING LENGTH IN SPACES PROVIDED.
2. FOR LOAD RATINGS CALCULATED BY WORKING STRESS DESIGN, PLACE ASTERISK (*) TO RIGHT OF RATING.
3. WHEN SHEAR OR MOMENT DETERMINES LOAD RATING, MARK APPROPRIATE COLUMN.

6) COMMENTS: UPDATED FOR SALOD AND SHEAR AND ADDED DEAD LOAD.

7) COMPUTATIONS: PERFORMED BY A. C. BORCENA DATE 10/15/91
CHECKED BY J. MUSTAFA DATE 10/17/91

8) RESPONSIBLE ENGINEER: JESUS MUSTAFA PE # 43809 DATE 10/17/91

LOAD RATING ANALYSIS SUMMARY

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Structure ID: 940047

DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**



Photo 1 - Element 12 Re Concrete Deck

Spall/delamination in the right fascia in Span 1

REPAIR RECOMMENDATION:
Repair the spalls and delaminations in the right fascia in Spans 1 and 8. 10MH

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FLORIDA DEPARTMENT OF TRANSPORTATION
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Photo 2 - Element 12 Re Concrete Deck

Spalls and delaminations in the deck top of Span 9

REPAIR RECOMMENDATION:
Repair the spalls and delaminations in the deck top. 10MH

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BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR Report
Inspection

Structure ID: 940047

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 12/15/2016 GAUE



Photo 3 - Element 12 Re Concrete Deck

Typical spalls and delaminations along the joint headers (Bent 10 joint shown)

REPAIR RECOMMENDATION:
Refer to photo 2.

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Structure ID: 940047

DISTRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 12/15/2016 GAUE



Photo 4 - Element 12 Re Concrete Deck

Spall with exposed rebar in the deck underside in Bay 6-2

REPAIR RECOMMENDATION:
None

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Photo 5 - Element 12 Re Concrete Deck

Corroded junction box on the left fascia of Span 4

REPAIR RECOMMENDATION:
Replace the corroded junction box on the left fascia of Span 4. 10MH

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Photo 6 - Element 301 Pourable Joint Seal

Spalls and delaminations in Abutment 1 joint header

REPAIR RECOMMENDATION:
Repair the spalls and delaminations in Abutment 1 joint header. 10MH

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Photo 7 - Element 302 Compressn Joint Seal

Typical deteriorated and/or missing compression seal (Bent 10 joint shown)

REPAIR RECOMMENDATION:
Repair the failed seals throughout Bents 2 thru 10. 80MH

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Structure ID: 940047

DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**



Photo 8 - Element 321 Re Conc Approach Slab

Undermining along the southwest approach sidewalk

REPAIR RECOMMENDATION:
Repair the undermining along the southwest and southeast approach sidewalks. 8MH

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Photo 9 - Element 321 Re Conc Approach Slab

Spall with exposed steel in the northeast end post

REPAIR RECOMMENDATION:
None

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Photo 10 - Element 215 Re Conc Abutment

Trash on Abutment 11 cap

REPAIR RECOMMENDATION:
None

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Inspection

cture ID: 940047
TRICT: D4 - Ft. Lauderdale

INSPECTION DATE: 12/15/2016 GAUE



Photo 11 - Element 226 Pre Conc Pile

Spall/delaminaiton in the east face of Pile 7-12

REPAIR RECOMMENDATION:
Repair the delaminations and spalls in Piles 5-12 7-12 10-1 and 10-7. 10MH

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Photo 12 - Element 226 Pre Conc Pile

Graffiti on Bent 10 piles

REPAIR RECOMMENDATION:
Remove graffiti on Bent 8, 9 and 10 piles. 16MH

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Photo 13 - Element 234 Re Conc Pier Cap

Spall/delamination with exposed rebar in the east face of Bent 9 cap over Pile 9-14

REPAIR RECOMMENDATION:
None

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Photo 14 - Element 311 Moveable Bearing

Heavy flaking corrosion and pitting on Beam 9-5 bearing over Bent 9

REPAIR RECOMMENDATION:
Clean and paint all moveable bearings. 80MH

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FLORIDA DEPARTMENT OF TRANSPORTATION
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Photo 15 - Element 311 Moveable Bearing

Typical corrosion on the moveable bearings

REPAIR RECOMMENDATION:
Refer to photo 14.

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DISTRICT: D4 - Ft. Lauderdale



Photo 16 - Element 311 Moveable Bearing

South anchor bolt for Bearing 9-10 sheared

REPAIR RECOMMENDATION:
None

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Photo 17 - Element 311 Moveable Bearing

North anchor bolt for Bearing 9-10 not fully seated

REPAIR RECOMMENDATION:
None

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Photo 18 - Element 313 Fixed Bearing

Heavy flaking corrosion with pitting (Bearing 10-5 at Bent 10 shown)

REPAIR RECOMMENDATION:
Clean and paint all fixed bearings. 80MH

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Photo 19 - Element 313 Fixed Bearing

Typical corrosion on the fixed bearings (Bearing 3-9 at Bent 3 shown)

REPAIR RECOMMENDATION:
Refer to photo 18.

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Photo 20 - Element 107 Steel Opn Girder/Beam

Typical heavy flaking corrosion on the web of the beams at the diaphragms (Beam 6-3 shown)

REPAIR RECOMMENDATION:
Clean and paint the steel beams. 80MH

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Photo 21 - Element 107 Steel Opn Girder/Beam

Through hole in the web of Beam 3-2 at Bent 3

REPAIR RECOMMENDATION:
Refer to photo 20.

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Photo 22 - Element 107 Steel Opn Girder/Beam

Typical surface corrosion on the web and bottom flange of the beams

REPAIR RECOMMENDATION:
Refer to photo 20.

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Photo 23 - Element 107 Steel Opn Girder/Beam

Typical heavy flaking corrosion on the top face of the bottom flange of the beams (Beam 3-8 shown)

REPAIR RECOMMENDATION:
Refer to photo 20.

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DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**



Photo 24 - Element 107 Steel Opn Girder/Beam

Graffiti on the beams in Span 10

REPAIR RECOMMENDATION
Remove the graffiti on the beams in Span 10. 8MH

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Structure ID: 940047

DISTRICT: D4 - Ft. Lauderdale **INSPECTION DATE: 12/15/2016 GAUE**



Photo 25 - Element 333 Other Bridge Railing

Spall with exposed rebar in Span 10 left rail

REPAIR RECOMMENDATION:
Repair the spalls with exposed rebar in the bridge rail panels. 40MH

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Photo 26 - Element 333 Other Bridge Railing

Typical missing anchor bolt nut for the bridge rail stanchions.

REPAIR RECOMMENDATION:
Install missing anchor bolt nuts at Stanchions 8-3 left, 10-8 left, 10-7 left and 10-8 right. 4MH

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FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR Report
CIDR

REPORT ID: INSP005
Structure ID: 940047
DATE PRINTED: 1/26/2017

Description

Structure Unit Identification

Bridge/Unit Key: 940047 0
Structure Name:
Description: MAIN SPAN 1
Type: M - Main

Roadway Identification

NBI Structure No (8): 940047
Position/Prefix (5): 1 - Route On Structure
Kind Hwy (Rte Prefix): 4 County Hwy
Design Level of Service: 3 Bypass
Route Number/Suffix: 00707 / 0 N/A (NBI)
Feature Intersect (6): FEC Railroad
Critical Facility:
Facility Carried (7): CR-707(Citrus Ave)
Mile Point (11): 0.052
Latitude (16): 027d26'39.2" Long (17): 080d19'26.5"

Roadway Traffic and Accidents

Lanes (28): 4 Medians: 1 Speed: 30 mph
ADT Class: 3 ADT Class 3
Recent ADT (29): 9200 Year (30): 2012
Future ADT (114): 15962 Year (115): 2034
Truck % ADT (109): 3
Detour Length (19): 2.0 mi
Detour Speed: -1 mph
Accident Count: -1 Rate: -1

Roadway Classification

Nat. Hwy Sys (104): 0 Not on NHS
National base Net (12): 0 - Not on Base Network
LRS Inventory Rte (13a): 94 100 000 Sub Rte (13b): 00
Functional Class (26): 16 Urban Minor Arterial
On Federal Aid System: Yes
Defense Hwy (100): 0 Not a STRAHNET hwy
Direction of Traffic (102): 2 2-way traffic
Emergency: ☐

Roadway Clearances

Vertical (10): 99.99 ft Appr. Road (32): 55.8 ft
Horiz. (47): 55.8 ft Roadway (51): 55.8 ft
Truck Network (110): 0 Not part of natl netwo
Toll Facility (20): 3 On free road
Fed. Lands Hwy (105): 0 N/A (NBI)
School Bus Route: ☒
Transit Route: ☐

NBI Project Data

Proposed Work (075A):
Work To Be Done By (075B):
Improvement Length (076): 120.08 ft

Improvement Cost (094): $ 154,000.00
Roadway Improvement Cost (095): $ 4,000.00
Total Cost (096): $ 209,000.00
Year of Estimate (097):

NBI Rating

Channel (61): N N/A (NBI)
Deck (58): 6 Satisfactory
Superstructure (59): 6 Satisfactory
Substructure (60): 7 Good

Culvert (62): N N/A (NBI)
Waterway (71): N Not applicable
Unrepaired Spalls: -1 sq.ft.
Review Required: ☒

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FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR Report

REPORT ID: INSP005
Structure ID: 940047
CIDR
DATE PRINTED: 1/26/2017

Structure Identification

Admin Area: St. Lucie
District (2): D4 - Ft. Lauderdale
County (3): (94)St. Lucie
Place Code (4): Fort Pierce
Location (9): Citrus Ave/FEC RR
Border Br St/Reg (98): Not Applicable (P) Share: 0 %
Border Struct No (99):
FIPS State/Region (1): 12 Florida Region 4-Atlanta
NBIS Bridge Len (112): Y - Meets NBI Length

Parallel Structure (101): No || bridge exists
Temp. Structure (103): Not Applicable (P)
Maint. Resp. (21): 4 City/Municipal Hwy Agy
Owner (22): 4 City/Municipal Hwy Agy
Historic Signif. (37): 5 Not eligible for NRHP

Structure Type and Material

Curb/Sidewalk (50): Left: 5.5 ft Right: 5.5 ft
Bridge Median (33): 2 Closed Med w/o Barrier
Main Span Material (43A): 3 Steel
Appr Span Material (44A): Not Applicable
Main Span Design (43B): 02 Stringer/Girder
Appr Span Design (44B): Not Applicable

Geometrics

Spans in Main Unit (45): 10
Approach Spans (46): 0
Length of Max Span (48): 76.1 ft
Structure Length (49): 502 ft
Total Length: 542 ft
Deck Area: 34738.99 sqft
Structure Flared (35): 0 No flare

Age and Service

Year Built (27): 1957
Year Reconstructed (106): 0
Type of Service On (42a): 5 Highway-pedestrian
Under (42b): 2 Railroad
Fracture Critical Details: Not Applicable

Deck Type and Material

Deck Width (52): 69.2 ft
Skew (34): 0 deg
Deck Type (107): 1 Concrete-Cast-in-Place
Surface (108): 0 None
Membrane: 0 None
Deck Protection: None

Appraisal

Structure Appraisal

Open/Posted/Closed (41): A Open, no restriction
Deck Geometry (68): 5 Above Tolerable
Underclearances (69): 5 Above Tolerable
Approach Alignment (72): 7-No Accel/Reduce Curve
Bridge Railings (36a): 0 Substandard
Transitions (36b): 0 Substandard

Approach Guardrail (36c): 0 Substandard
Approach Guardrail Ends (36d): 0 Substandard
Scour Critical (113): N Not Over Waterway

Navigation Data

Navigation Control (38): NA-no waterway
Nav Vertical Clr (39): 0 ft
Nav Horizontal Clr (40): 0 ft
Min Vert Lift Clr (116): 0 ft
Pier Protection (111): Not Applicable (P)

NBI Condition Rating

Sufficiency Rating: 93.5
Health Index: 49.21
Structural Eval (67): 6 Equal Min Criteria
Deficiency: Not Deficient

Minimum Vertical Clearance

Over Structure (53): 99.99 ft
Under (reference) (54a): R Railroad beneath struc
Under (54b): 21.9 ft

Minimum Lateral Underclearance

Reference (55a): R Railroad beneath struc
Right Side (55b): 13.1 ft
Left Side (56): 0 ft

Schedule

Current Inspection

Inspection Date: 12/15/2016
Inspector: KNKCACF - Fernando Carreno
Bridge Group: C9H85
Alt. Bridge Group:
Primary Type: Regular NBI
Review Required: X

Next Inspection Date Scheduled

NBI: 12/15/2018
Element: 12/15/2018
Fracture Critical:
Underwater:
Other/Special:

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FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR Report
CIDR

REPORT ID: INSP005
Structure ID: 940047
DATE PRINTED: 1/26/2017

Schedule Cont.

Inspection Types Performed NBI [X] Element [X] Fracture Critical [ ] Underwater [ ] Other Special [ ]

Inspection Intervals	Required (92)	Frequency (92)	Last Date (93)	
Fracture Critical	[ ]	mos		
Underwater	[ ]	mos		
Other Special	[ ]	mos		
NBI		24 mos (91)	12/15/2016	(90)

Inspection Resources

Crew Hours: 14
Flagger Hours: 0
Helper Hours: 0
Snooper Hours: 0
Special Crew Hours: 0
Special Equip Hours: 0

Bridge Related

General Bridge Information

Parallel Bridge Seq:
Channel Depth: -1 ft
Radio Frequency: -1
Phone Number: (000) 000-0001
Exception Date:
Exception Type: Unknown
Accepted By Maint: 01/01/1957
Warranty Expiration: 00/00/0000

Bridge Rail 1: Concrete post & beam
Bridge Rail 2: Not applicable-No rail
Electrical Devices: Roadway lighting only
Culvert Type: Not applicable
Maintenance Yard: 490-Ft. Pierce
FIHS ON / OFF: No Routes on FIHS
Previous Structure:
2nd Previous Structure:
Replacement Structure:

Permitted Utilities: Power [ ] Water [ ] Gas [ ] Fiber Optic [ ] Sewage [ ] Other [ ]

Bridge Load Rating Information

Inventory Type (065): 1 LF Load Factor
Operating Type (063): 1 LF Load Factor
Original Design Load (031): 5 MS 18 (HS 20)
Date: 10/17/1991
Initials: JNM
Load Rating Rev. Recom.:
Load Rating Plans Status: Design Plans

Inventory Rating (066): 35.3 tons
Operating Rating (064): 59.0 tons
FL120 Permit Rating: -1.0 tons
HS20/FL120 Max Span Rating: 59.0 tons
Dynamic Impact in Percent: 30 %
Governing Span Length: 45.3 ft
Minimum Span Length:
Distribution Method: SALOD

Load Rating Notes:

LEGAL LOADS

SU2: 48.0 tons
SU3: 49.0 tons
SU4: 49.0 tons
C3: 69.0 tons
C4: 69.0 tons
C5: 71.0 tons
ST5: 74.0 tons
Posting (070): 5 At/Above Legal Loads
Open/Posted/Closed (041): A Open, no restriction

POSTING

Recom. SU Posting: 99 tons
Recom. C Posting: 99 tons
Recom. ST5 Posting: 99 tons
Actual SU Posting: 99 tons
Actual C Posting: 99 tons
Actual ST5 Posting: 99 tons
Actual Blanket Posting: 99 tons

FLOOR BEAM (FB) FB Present: No

FB Span Length, Gov: 0.0 ft
FB Spacing, Gov: 0.0 ft
FB OPR Rating: 0.0 tons
FB SU4 OPR Rating: 0.0 tons
FB FL120 Rating: 0.0 tons

SEGMENTAL (SEG)

SEG Wing-Span: -1.0 ft
SEG Web-to-Web Span: -1.0 ft
SEG FL120 Transverse: -1.0 tons
SEG Single Axle Transverse: -1.0 tons
SEG Tandem Axle Transverse -1.0 tons

Bridge Scour and Storm Information

Pile Driving Record: All pile driving records
Foundation Type: Foundation details
Mode of Flow: Not Applicable
Rating Scour Eval: Not Applicable
Highest Scour Eval: Not Applicable
Scour Evaluation Method:

Scour Recommended I: Not Applicable
Scour Recommended II: Not Applicable
Scour Recommended III: Not Applicable
Scour Elevation: 999 ft
Action Elevation: 999 ft
Storm Frequency: 999

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FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005 — **Inspection/CIDR Report**

Structure ID: 940047 — **CIDR** — DATE PRINTED: 1/26/2017

Elements

Inspection Date: 12/15/2016 **GAUE**

DECKS : Decks/Slabs

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	12 / 3	Re Concrete Deck	0	.	0	.	34739	100	0	.	34739 sq.ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	0	.	50	100	0	.	50 sq.ft
0	1130 / 3	Cracking (RC and Other)	0	.	0	.	34689	100	0	.	34689 sq.ft

DECKS : Joints

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	301 / 3	Pourable Joint Seal	102	73.91	36	26.09	0	.	0	.	138 ft
0	2330 / 3	Seal Damage	0	.	32	100	0	.	0	.	32 ft
0	2360 / 3	Adjacent Deck or Header	0	.	4	100	0	.	0	.	4 ft

DECKS : Joints

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	302 / 3	Compressn Joint Seal	0	.	0	.	623	100	0	.	623 ft
0	2320 / 3	Seal Adhesion	0	.	0	.	623	100	0	.	623 ft

MISCELLANEOUS : Other Elements

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	321 / 3	Re Conc Approach Slab	2760	100	0	.	0	.	0	.	2760 sq.ft
0	510 / 3	Wearing Surfaces	2690	97.46	0	.	70	2.54	0	.	2760 sq.ft
0	3220 / 3	Crack (Wearing Surface)	0	.	0	.	70	100	0	.	70 sq.ft

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	215 / 3	Re Conc Abutment	151	100	0	.	0	.	0	.	151 ft

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	226 / 3	Pre Conc Pile	0	.	111	95.69	5	4.31	0	.	116 (EA)
0	1080 / 3	Delamination/Spall/Patched Area	0	.	111	96.52	4	3.48	0	.	115 (EA)
0	1110 / 3	Cracking (PSC)	0	.	0	.	1	100	0	.	1 (EA)

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	234 / 3	Re Conc Pier Cap	0	.	646	99.38	4	0.62	0	.	650 ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	0	.	4	100	0	.	4 ft

SUBSTRUCTURE : Substructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	8396 / 3	Other Abutment Slope Protection	5199	100	0	.	0	.	0	.	5199 (SF)

This report contains information relating to the physical security of a structure and depictions of the structure. This information is confidential and exempt from public inspection pursuant to sections 119.071(3)(a) and 119.071(3)(b), Florida Statutes. Only the cover page of this report may be inspected and copied.

FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM

REPORT ID: INSP005 — **Inspection/CIDR Report**

Structure ID: 940047 — **CIDR** — **DATE PRINTED: 1/26/2017**

SUPERSTRUCTURE : Bearings

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	311 / 3	Moveable Bearing	0	.	90	90	10	10	0	.	100 each
0	1000 / 3	Corrosion	0	.	90	90	10	10	0	.	100 each
0	8516 / 3	Painted Steel	0	.	1200	100	0	.	0	.	1200 sq.ft
0	3420 / 3	Peel/Bub/Crack(Stl Protect Coat)	0	.	1200	100	0	.	0	.	1200 sq.ft

SUPERSTRUCTURE : Bearings

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	313 / 3	Fixed Bearing	0	.	64	64	36	36	0	.	100 each
0	1000 / 3	Corrosion	0	.	0	.	36	100	0	.	36 each
0	8516 / 3	Painted Steel	0	.	1200	100	0	.	0	.	1200 sq.ft
0	3420 / 3	Peel/Bub/Crack(Stl Protect Coat)	0	.	1200	100	0	.	0	.	1200 sq.ft

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	107 / 3	Steel Opn Girder/Beam	2310	46.02	0	.	2710	53.98	0	.	5020 ft
0	1000 / 3	Corrosion	0	.	0	.	2710	100	0	.	2710 ft
0	8516 / 3	Painted Steel	16735	50	0	.	16735	50	0	.	33470 sq.ft
0	3420 / 3	Peel/Bub/Crack(Stl Protect Coat)	0	.	0	.	16735	100	0	.	16735 sq.ft

SUPERSTRUCTURE : Superstructure

Str Unit	Elem/Env	Description	Qty1	%1	Qty2	%2	Qty3	%3	Qty4	%4	T Qty
0	333 / 3	Other Bridge Railing	809	80.58	176	17.53	19	1.89	0	.	1004 ft
0	1000 / 3	Corrosion	0	.	176	100	0	.	0	.	176 ft
0	1080 / 3	Delamination/Spall/Patched Area	0	.	0	.	19	100	0	.	19 ft

Total Number of Elements*: 12
*excluding defects/protective systems

Inspection Information

Inspection Date: 12/15/2016 **Type:** Regular NBI
Inspector: KNKCACF - Fernando Carreno
Inspection Notes: A bucket van was utilized during this inspection.

Sufficiency Rating Calculation Accepted by KNKCADG at 1/26/2017 11:51:09 AM

Inspection Date: 12/11/2014 **Type:** Regular NBI
Inspector: INACTIVE1519 - Andre Favreau
Inspection Notes: Sufficiency Rating Calculation Accepted by KNKCADG-P at 2015-01-21 08:18:32

A bucket van was utilized during this inspection.

Inspection Date: 12/20/2012 **Type:** Regular NBI
Inspector: KNKCACF - Fernando Carreno
Inspection Notes: Sufficiency Rating Calculation Accepted by KNKCAWM-P at 2013-02-18 13:55:49

A bucket van was utilized during this inspection.

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FLORIDA DEPARTMENT OF TRANSPORTATION
BRIDGE MANAGEMENT SYSTEM
Inspection/CIDR Report

REPORT ID: INSP005
Structure ID: 940047
CIDR
DATE PRINTED: 1/26/2017

Inspection Information

Inspection Date: 12/09/2010 **Type:** Regular NBI
Inspector: KNKCAMB - Brice McMinn
Inspection Notes: Sufficiency Rating Calculation Accepted by kn538pl-P at 2011-01-20 13:54:58

Inspection Date: 12/15/2008 **Type:** Regular NBI
Inspector: KNKCALE - Eric Lambert
Inspection Notes: Sufficiency Rating Calculation Accepted by knkcale-P at 2009-01-16 08:57:29

Inspection Date: 12/07/2006 **Type:** Regular NBI
Inspector: KNKCAST - Timothy Sweeney
Inspection Notes: Sufficiency Rating Calculation Accepted by knkcast-P at 2006-12-14 16:42:20

Inspection Date: 12/01/2004 **Type:** Regular NBI
Inspector:
Inspection Notes: Sufficiency Rating Calculation Accepted by kn110mb-P at 2005-01-09 14:40:27
Routine inspection

This structure was transferred from state to county on 8/15/04.

Inspection Date: 12/11/2002 **Type:** Regular NBI
Inspector: INACTIVE98 - Mike Rausch
Inspection Notes:

Inspection Date: 01/24/2001 **Type:** Regular NBI
Inspector: INACTIVE98 - Mike Rausch
Inspection Notes: MT438MR inspection comments -
Structure 940047 -
Date 01/24/2001 -
Previous comments > (none)

Inspection Date: 01/28/1999 **Type:** Regular NBI
Inspector:
Inspection Notes:

Structure Notes

BRIDGE OWNER: CITY OF FT. PIERCE

Bridge inventoried from west to east.

TRAFFIC RESTRICTIONS: Based on the current load rating analysis dated 10/17/91, posting is not required. The structure is not posted.

LOAD CAPACITY EVALUATION:
Since the current load rating dated 10/1/91, there is no indication that deterioration, geometric changes or additional dead load have occurred that would warrant a new load rating analysis. This only applies to this inspection dated 12/15/16 per Scott DeReus, P.E.

A 40ft. ladder or bucket van is needed to reach the bearings at the intermediate bents.

Contact Brad at (772) 461-7102 (Rinker Office) or (561) 262-2324 (mobile phone), before the next scheduled inspection. Rinker Concrete and FEC Railroad are the property owners and have the right-of-way for the underside. Bucket van access can be made in Spans 1 through 7 from the Rinker property and Spans 8 through 11 can be made from the intersection of Orange Ave/railroad crossing, just north of the structure.

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SPECIFIC AUTHORIZATION NO. 6

CITRUS AVENUE BRIDGE OVER FEC RAILROAD REHABILITATION PROJECT

PROFESSIONAL SERVICES

SCOPE OF SERVICES

Pursuant to the provisions contained in the "RFQ No. 2013-005 – Engineering Services" between The City of Fort Pierce (hereinafter referred to as "CITY") and Kimley-Horn and Associates, Inc. (hereinafter referred to as "ENGINEER") dated the _____ day of _____ 2018, CITY authorizes the ENGINEER to provide services in accordance with the terms and conditions set forth in RFQ 2013-005.

The CITY desires additional services related to the Citrus Avenue Bridge Rehabilitation work, hereinafter referred to as the "Project".

This Project is a City of Fort Pierce funded project.

Section 1 - Scope of Work and Schedule of Services

ENGINEER will provide the following services in accordance with this AUTHORIZATION:

Professional consultant services are required for the preparation of engineering plans and specification package to support the design, permitting, and bidding of improvements to the Citrus Avenue Bridge crossing the FEC Railroad. The rehabilitation repairs will address the deficiencies identified in the 2016 Florida Department of Transportation (FDOT) bridge inspection report. The scope of services are more particularly described in Exhibit "A", attached hereto and incorporated by reference herein.

Section 2 - Deliverables

ENGINEER shall provide the following deliverables to the CITY as listed below and as described in Exhibit "A', attached hereto and incorporated by reference herein:

Field Review Meeting	4 Weeks from NTP
60% Design Drawings	8 Weeks from NTP
90% Design Drawings	12 Weeks from NTP
100% Design Drawings	14 Weeks from NTP

SPECIFIC AUTHORIZATION NO. 6

CITRUS AVENUE BRIDGE OVER FEC RAILROAD REHABILITATION PROJECT

PROFESSIONAL SERVICES

Section 3 - Method and Amount of Compensation

CITY will compensate ENGINEER for services under this AUTHORIZATION in accordance with the payment method as set forth in the attached Exhibit "B", attached hereto and incorporated by reference herein.

The budget (or fee) for the services is not to exceed $65,916

Section 4 - CITY's Responsibilities

CITY hereby designates City Engineer or designee as CITY's representative pursuant to Section 8 of the AGREEMENT.

Section 5 - Other Provisions

All applicable portions of the AGREEMENT not specifically modified herein shall remain in full force and effect and are incorporated by reference herein.

IN WITNESS WHEREOF, this AGREEMENT, consisting of eight pages has been fully executed on behalf of the ENGINEER by its duly authorized officer, and the CITY has the same to be duly executed in its name and in its behalf, effective as of the date herein above written.

CITY OF FORT PIERCE, FLORIDA:

By: _____ Date: _____

Linda Hudson, Mayor

Attest: _____

Linda Cox, City Clerk

SPECIFIC AUTHORIZATION NO. 6

CITRUS AVENUE BRIDGE OVER FEC RAILROAD REHABILITATION PROJECT

PROFESSIONAL SERVICES

KIMLEY-HORN & ASSOCIATES, INC.

By:_____ Date: 11/29/18

Brian Good, P.E, Senior Vice President

APPROVED AS TO FORM & CORRECTNESS:

By:_____ Date: _____

Ben Bryan, Jr., City Attorney

EXHIBIT "A"
DETAILED DESCRIPTION OF THE PROJECT
AND
ENGINEER SCOPE OF SERVICES

CITRUS AVENUE BRIDGE OVER FEC RAILROAD REHABILITATION PROJECT

PROJECT DESCRIPTION:

The CITY has requested that structural and non-structural repairs be designed to support the rehabilitation of the Citrus Avenue bridge over the Florida East Coast (FEC) railroad right-of-way. The rehabilitation repairs will address the deficiencies identified in the 2016 Florida Department of Transportation (FDOT) bridge inspection report. The repair measures may consist of, but not limited to, the following:

- Spall repairs
- Revetment repairs
- Bridge deck spall/delamination repair
- Pile spall repair
- Expansion Joint Header repairs
- Repair or replacement of existing armored angle joint headers
- Replace expansion joint seals
- Clean and paint steel beams
- Washout / undermining restoration
- Clean and paint steel bearings
- Asphalt Patch
- Vegetation removal

DESCRIPTION OF TASK DELIVERABLES:

The ENGINEER agrees to perform professional roadway design and related services in connection with the project as required and set forth in the following:

A. General:

1. The ENGINEER will endeavor not to duplicate any previous work done on the project. After issuance of written authorization to proceed, the ENGINEER shall consult with the CITY to clarify and define the requirements for the project and review available data.

2. The ENGINEER will attend conferences with the CITY and its representatives upon reasonable request.

3. In order to accomplish the work described under this Task Order in the time frames and conditions set forth, the ENGINEER will observe the following requirements:

   a. The ENGINEER will complete his work on the project within the time allowed by maintaining an adequate staff of registered engineers, draftsmen, and other employees on the work.

   b. The ENGINEER will design the project in such a manner as to be in reasonable conformance with applicable federal, state and local laws, and shall comply with the Florida Department of Transportation (FDOT) Plans Preparation Manual Design Criteria, latest edition.

   c. The ENGINEER will prepare all necessary sketches and completed application forms to accompany the CITY's applications for required federal, state, or local permits.

   d. The ENGINEER will cooperate with the CITY in order that all phases of the work may be properly scheduled and coordinated.

   e. The ENGINEER will send a complete preliminary set of construction plans to any city, county, state, regional or federal regulatory agency from which a permit or other approval is required prior to final approval of the design by the City Engineer, and will coordinate the project design with all applicable agencies.

4. Compensation to the ENGINEER for basic services shall be in accordance with Section IV – Compensation, of this Agreement, as mutually agreed upon by the

ENGINEER and CITY.

Task 1 – Field Review

The ENGINEER will conduct a field review to verify the deficiencies identified in the FDOT Bridge Inspection Report and look for new deficiencies that may have occurred prior to the last FDOT Inspection. To assist in performing the visual A bucket truck or man lift is required to assess the underneath of the existing bridge superstructure.

The ENGINEER will meet with the CITY following the Field Review to discuss any changes and/or additions to the deficiencies identified within the FDOT Bridge Inspection Report.

Task 2 – Permitting & Coordination

The ENGINEER will coordinate with FEC Railroad and Rinker Concrete relative to gaining access and approving the proposed bridge rehabilitation measures. Temporary improvements will need to be constructed within the FEC right-of-way to facilitate cleaning and protecting the existing bridge beams.

Task 3 – Bridge Repairs Plans

In this task the ENGINEER will produce Bridge Repair Plans to address the deficiencies identified within the FDOT Bridge Inspection Report and potential deficiencies identified in the Field Review. The structural and non-structural repair measures will consist of, but not limited to, the following:

- Spall repairs
- Revetment repairs
- Bridge deck spall/delamination repair
- Pile spall repair
- Expansion Joint Header repairs
- Repair or replacement of existing armored angle joint headers
- Replace expansion joint seals
- Clean and paint steel beams
- Washout / undermining restoration
- Clean and paint steel bearings (Pending the condition of the bearings, see Additional Services)
- Asphalt Patch
- Vegetation removal

Based upon the repair plans developed, the ENGINEER will develop quantities and opinion of probable construction cost estimate.

Task 4 – Coatings Consulting Services

The ENGINEER will contract with a sub-consultant to provide Coatings Consulting Services for the Citrus Avenue bridge repair project. The scope of services will consist of the following:

- Conduct a field review and collect 4 samples of the existing coating to test for heavy metals (Lead, Cadmium, Chromium)
- Collect 2 samples to test for generic resin
- Prepare an existing coatings assessment report of the findings
- Assist the ENGINEER in developing project specific plan notes pertaining to maintaining, cleaning of the existing surfaces, and applying the new coating.

Additional Services

The FDOT Inspection Report identifies that the bearing pad rehabilitation is to consist of cleaning and painting. Upon completion of the Field Review, the ENGINEER will meet with the CITY to discuss the condition of bridge bearings. If the bridge bearings are deemed inoperable new bearing pads will need to be installed on the bridge. Installation of new bearing pads will require temporary jacking of the existing bridge beams and would be considered additional service. The scope of this additional service will include the following:

- Analysis of the existing bridge as needed to provide temporary jacking
- Existing bearing removal
- Design of new elastomeric bearing
- Design of shim plates as needed to match existing bearing heights

TIME OF PERFORMANCE:

Upon authorization to proceed by the CITY, final design documents are expected to take approximately fourteen (14) weeks from the Notice to Proceed (NTP).

Field Review Meeting	4 weeks following NTP
60% Design Drawings	8 weeks following NTP
90% Design Drawings	12 weeks following NTP
100% Design Drawings	14 weeks following NTP

EXHIBIT "B"

COMPENSATION

The CITY agrees to pay and the ENGINEER agrees to accept for services rendered pursuant to fees in accordance with the following:

A. Professional Services Fee: The basic compensation mutually agreed upon by the ENGINEER and the CITY follows:

Lump Sum Tasks

Task Description	Fee
Field Review	$ 11,900
Permitting & Coordination	$ 9,840
Bridge Repair Plans	$ 32,408
Coating Consulting Specialist	$ 11,768
Grand Total	**$ 65,916**

City of Fort Pierce
Citrus Avenue over FEC Railroad Bridge Repairs
PROPOSED STAFF HOURS AND FEE

TASK	PM / SR PRINCIPAL	SR PROFESSIONAL (ENGINEER)	PROFESSIONAL	ANALYST	SR TECH	TOTAL HOURS
	$200.00	$180.00	$150.00	$101.00	$92.00	
Task 1 - Field Review						
Field review	10.0	30.0	30.0			70.0
	$2,000.00	**$5,400.00**	**$4,500.00**	**$0.00**	**$0.00**	**$11,900.00**
Task 2 -Permitting/Coordination						
FEC Railroad Permit	18.0	4.0	8.0			30.0
Rinker Concrete Coordination	12.0	4.0	8.0			24.0
	$6,000.00	**$1,440.00**	**$2,400.00**	**$0.00**	**$0.00**	**$9,840.00**
Task 3- Citrus Avenue Bridge Repairs						
Task 3.1 - Meetings						
Kick off Meeting	2.0		6.0			8.0
Post Field Review Meeting (summary of findings)	2.0		6.0			
Phase Review Meetings (2) (Includes Prep./Agenda/Minutes)	4.0	0.0	12.0			16.0
	$1,600.00	**$0.00**	**$3,600.00**	**$0.00**	**$0.00**	**$5,200.00**
Task 3.2 - Bridge Repair Plans						
Evaluate Field Information		4.0	6.0			10.0
Bridge Repair Plans		20.0	90.0	60.0		170.0
	$0.00	**$4,320.00**	**$14,400.00**	**$6,060.00**	**$0.00**	**$24,780.00**
Task 3.3 - Quantities and cost estimate						
Quantities and Opinion of Probable Construction Cost	0.0	4.0	6.0	8.0	0.0	18.0
	$0.00	**$720.00**	**$900.00**	**$808.00**	**$0.00**	**$2,428.00**
Subtotal	**$9,600.00**	**$11,880.00**	**$25,800.00**	**$6,868.00**	**$0.00**	**$54,148.00**
Task 4 - Coatings Consulting Services						
Coatings Specialist (Includes testing of existing coatings) (GPI Inc.)						**$9,768.00**
Task 5 - Expenses						
Bucket Truck Rental						**$2,000.00**
Subtotal						**$11,768.00**
Total						**$65,916.00**

Labor Fee	**$54,148.00**
Expenses	**$11,768.00**
TOTAL FEE (NTE)	**$65,916.00**

City Commission Regular Meeting **11.d.**

Meeting Date: 12/17/2018

Re: Letter of Support for International Conservation Program via Sister Cities International

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SUBJECT:

Approve Letter of Support for International Conservation Program via Sister Cities International

SUMMARY:

Sister Cities International supports preserving favorable conditions for citizen diplomacy to continue promoting prosperity and peace.

RECOMMENDATION:

Approve letter of support

ALTERNATIVES:

Deny letter of support

RESPONSIBLE STAFF:

Caleta Scott, Lincoln Park Revitalization Coordinator

COORDINATED WITH:

Elizabeth Woodruff, Grants Adminstration Manager

Fiscal Impact

Budgeted Y/N: N

OTHER INFORMATION:

This letter of support requires no fiscal impact.

Attachments

Letter of Support

Form Review

Inbox	Reviewed By	Date
Finance Department	Johnna Morris	12/11/2018 03:51 PM
City Manager	Nick Mimms	12/12/2018 11:47 AM
Form Started By: Caleta Scott		Started On: 11/29/2018 09:04 AM
Final Approval Date: 12/12/2018		

THE SUNRISE CITY
FORT PIERCE
OFFICE OF THE MAYOR
AND CITY COMMISSION
Florida

December 17, 2018

U.S. Representative Brian Mast
2182 Rayburn House Office Building
Washington, DC 20515

Dear Congressman Mast,

The ecology and wildlife of the Florida coast have become defining features of our community, particularly here in Fort Pierce. As a member of the Fort Pierce community, I know how hard we all have worked to protect our coastline and the life that it supports. You and your staff have been instrumental in promoting responsible environmental policies both in Washington and back here in Florida that protect our waterways from invasive and harmful algal blooms.

I want to thank you for your work so far on this critical issue and urge your support of similar conservation programs that extend far beyond Florida's coastlines, specifically, international conservation programs supported by the U.S. government.

More than ever, local environmental factors are affected by events taking place around the world. Improperly managed natural resources and decaying forests, wetlands, rivers, and lakes around the world all contribute to the worsening natural disasters that have hugely impacted the people of Florida for decades. In 2004, hurricanes Frances and Jeanne caused widespread devastation right here in Fort Pierce. Through support from your office and local elected officials, we have been responsive to these disasters through rebuilding efforts and preventative infrastructure. FEMA and local volunteers were critical to this response, however, many parts of the world do not enjoy such effective government and community oversight of their natural resources.

Yet, we have to recognize that our global environment is connected. The health of ecosystems and landscapes across the world indirectly affect the health of Florida's coastline. Thankfully, similar preventative efforts have proven effective at preparing international communities for disaster—these efforts both conserve their surrounding ecosystems and limit the death toll of major disasters.

Your continued commitment to protecting Florida's environment and the lives and businesses that depend on its health have been much appreciated by your constituents. Support for international conservation funding by the U.S. should be considered an extension of these efforts.

Sincerely,

Linda Hudson
Mayor

cc: Nicholas Mimms, City Manager
Linda Cox, City Clerk

City Commission Regular Meeting **11.e.**

Meeting Date: 12/17/2018

Re: Employment Agreement for Peter J. Sweeney

Submitted For: Nick Mimms, City Manager, City Manager

SUBJECT:

Approval of Employment Agreement with Peter J. Sweeney for full time legal services as the City Attorney for the City of Fort Pierce.

SUMMARY:

On September 4, 2018, the City Commission approved a professional services agreement with Colin Baenziger & Associates for the purpose of selecting and hiring a professional inhouse City Attorney for the City of Fort Pierce. On December 6, 2018, five final candidates recommended by Colin Baenziger & Associates were interviewed, both individually by each member of the City Commission and collectively as a group at a Special City Commission meeting. Peter J. Sweeney was selected and Colin Baenziger along with staff negotiated the terms of the attached contract.

RECOMMENDATION:

Staff recommends the approval of the Employment Agreement.

ALTERNATIVES:

Staff will proceed as directed by the City Commission.

RESPONSIBLE STAFF:

Nicholas C. Mimms, City Manager

COORDINATED WITH:

Colin Baenziger & Associates

Fiscal Impact

OTHER INFORMATION:

Funds are available in the City Attorney's budget.

Attachments

Contract

Form Review

Form Started By: Jennifer Robinson Started On: 12/12/2018 09:15 AM

Final Approval Date: 12/12/2018

CITY OF FORT PIERCE, FLORIDA

PETER J. SWEENEY

CITY ATTORNEY

EMPLOYMENT AGREEMENT

THIS EMPLOYMENT AGREEMENT is made and entered into this_____ day of December, 2018, with an effective date of January 7, 2019, by and between the **CITY OF FORT PIERCE, FLORIDA,** a municipal corporation, hereafter referred as to **"CITY"** and **PETER J. SWEENEY,** hereafter referred to as **"SWEENEY".**

WHEREAS, CITY desires to secure the legal representation of **SWEENEY** as City Attorney for a minimum of three (3) years from the Effective Date of this agreement and **SWEENEY** desires to accept such position; and

WHEREAS, CITY and **SWEENEY** intend by this Agreement to provide certain benefits and establish certain conditions of employment to which **SWEENEY** has agreed.

NOW, THEREFORE, in consideration of the material advantages occurring to the parties and the mutual covenants contained herein, **CITY** and SWEENEY **agree** with each other as follows:

1. <u>Employment.</u>

CITY employs **SWEENEY** to perform the duties of City Attorney as specified

in the City Charter. **SWEENEY** will render full time legal services to **ClTY** in the capacity of City Attorney of the **CITY** for the initial term of three (3) years, commencing January 7, 2019 (the "Effective Date"), through January 6, 2022. In the event written notice of termination or notice of non-renewal of this Agreement is not given by either party to the other party ninety (90) days prior to the expiration of the term as hereinabove provided, this Agreement shall automatically renew and continue thereafter on a year-to-year basis. **SWEENEY** agrees to report for work, and the duties and employment of **SWEENEY** as City Attorney shall commence the Effective Date. In the event the Agreement is not renewed all compensation, benefits, and requirements of this Agreement shall remain in effect until the expiration of the term unless sooner terminated or **SWEENEY** resigns.

SWEENEY shall devote all of his time, attention, knowledge and skill, solely and exclusively to the legal interests of the City of Fort Pierce. **SWEENEY** warrants and agrees to maintain his Florida license to practice law in good standing without limitation throughout the term of this Agreement. **SWEENEY** will at all times faithfully, industriously, and diligently perform to the best of his ability all duties that may be required of him by virtue of his position as City Attorney, including, but not limited to, the performance of all duties set forth In the City Charter, Florida Statutes, City Ordinances, and Resolutions, and to perform other legally permissible and proper duties and functions to the reasonable satisfaction of the City Commission. Should **SWEENEY** no longer be in good standing with the Florida Bar or authorized to practice law in Florida, this contract will terminate immediately for cause, In the event **SWEENEY makes** formal application for full-time

employment elsewhere while serving as City Attorney, he shall be required to provide written notice to the City Commission simultaneously with such application or submittal.

2. Compensation.

In consideration for these services as City Attorney, **CITY** agrees to pay **SWEENEY an** annual base salary of ONE HUNDRED AND SIXTY THOUSAND DOLLARS ($160,000.00) per annum, payable In bi-weekly installments, or such higher figure as may be negotiated after a mandatory six-month evaluation of **SWEENEY's** performance by the City Commission. Base annual salary adjustments, including cost of Living Increases, for each subsequent year during the term of this Agreement shall be negotiated between the parties on an annual basis.

The CITY agrees that it will not, at any time during the term of this Agreement, reduce **SWEENEY's** base salary or other financial benefits in a greater percentage than an applicable across the board reduction for all employees of the **CITY.**

3. Performance Evaluations.

The City Commission shall, upon the expiration of six (6) months of the Effective Date of this Agreement, and on an annual basis thereafter, evaluate **SWEENEY's** performance as City Attorney, Annual performance evaluations shall occur during the calendar month of June of each year following the first year of employment, and the matter of the performance evaluation shall be agendaed by the City Attorney to be discussed by the City Commission in June of each year of this

Agreement. These performance reviews shall consider continuing **City** Commission objectives and responsibilities as well as achievement of key specific objectives as mutually agreed upon by City Commission and **SWEENEY.**

Should It be determined that **SWEENEY** was successful in his overall performance, and If the Commission, in Its sole discretion, determines that the fiscal condition of the **CITY** is sufficient, the City Commission will consider **SWEENEY's** compensation and benefits, and endeavor to maintain them at a level commensurate with his peers in the profession In similarly situated Florida cities and the rate of general inflation in the economy.

4. Benefits.

In addition to annual compensation specified above, the **CITY** agrees to provide **SWEENEY** with the following benefits:

(a) **SWEENEY** shall be entitled to receive the same vacation, sick leave, and holiday time as defined in the City of Fort Pierce Personnel Rules and Regulations, including provisions governing accrual and payment thereof on termination of employment.

(b) A car allowance at $350.00 per month, or such other rate agreed upon by the City Commission.

(c) **CITY** agrees to budget and pay for licensing fees or charges that are required of attorneys to practice law in the State of Florida and professional dues, required CLE seminars, and subscriptions necessary for **SWEENEY's** continuation and participation In national, regional, state, and local associations, and organizations necessary and desirable for **SWEENEY's** continued professional participation,

growth, and advancement, and for the good of the **CITY.**

(d) Comprehensive health and major medical insurance equal to that which is provided to other City employees, and shall be effective on the effective date of this agreement (January 7, 2019). If the CITY's insure requires a waiting period, the CITY shall pay SWEENEY's COBRA payment for the insurance from his current employer until such time as the CITY's insurance is effective for him.

(e) Retirement benefits as provided to all City Employees under the **CITY's** defined benefit retirement plan; however, if **SWEENEY** elects not to participate as a member under the **CITY's** plan, the **CITY** shall contribute a sum to his current plan (or other plan designed by **SWEENEY**) of 7%.

5. Relocation Expenses.

The **CITY** will pay **SWEENEY** an amount not to exceed $3,000.00 for the expenses of moving **SWEENEY, SWEENEY's** family, and **SWEENEY's** personal property from **SWEENEY's** current residence to the **CITY,** including packing, moving, truck rental, storage costs, unpacking, and insurance charges, and miscellaneous charges incurred or expended by him in effecting this move. SWEENEY will be reimbursed upon establishing of residence in the City and upon presentation of receipts.

6. **Termination.**

At all times during the term of this Agreement, **SWEENEY** shall be deemed an employee-at-will, and may be terminated at any time, with or without cause. For purposes of this Agreement, termination shall occur upon the happening of any of the following events:

(a) A majority vote of the entire City Commission at a duly authorized public meeting, with or without cause, at the sole discretion of the City Commission.

(b) If the **CITY,** Its citizens, or legislature amends any provision of the Charter or Code substantially changing the form of government directly pertaining to the role, powers, duties, authority and responsibilities of **SWEENEY** as City Attorney, **SWEENEY** shall have the right to declare that such amendments constitute termination; or

(c) If **SWEENEY** resigns following a formal offer to accept resignation made by the majority of the entire City Commission at a duly authorized public meeting.

7, **Severance.**

Except as provided in this Agreement, severance will be paid to **SWEENEY** when employment is terminated as defined in Paragraph 6 above. Upon termination, all rights, duties and obligations of both parties shall cease except that the **CITY** shall continue to pay **SWEENEY** his then annual base salary for Ninety (90) consecutive days thereafter, and the **CITY** shall also maintain **SWEENEY's** life insurance and major medical insurance coverage paid up and in effect during such period. **SWEENEY** shall also be compensated for all accrued sick leave and vacation time payable upon termination of employment as provided in the Personnel Rules and Regulations. During any time severance is being paid, **SWEENEY** shall not be required to perform any duties for the **CITY** or come to the **CITY.**

The severance provisions set forth herein shall not apply and the **CITY** shall not be obligated to pay **SWEENEY** any severance in the event **SWEENEY** is terminated for cause. For purposes of this agreement "For Cause" shall be defined as any of the following

actions by **SWEENEY:**

(a) Conviction of a felony or any misdemeanor involving moral turpitude;

(b) Commission of any act of fraud involving or affecting the **CITY** or the public;

(c) Willful failure to perform the duties of City Attorney, or material breach by **SWEENEY** of any duties or obligations under this Agreement and failure to cure such failure or breach after receipt of reasonable written notice;

(d) Incompetence or negligence in the performance of official duties;

(e) Violation of the **CITY's** Drug-Free Work Place Policy, including illegal use of drugs, hallucinogens, or other substances regulated by state law;

(f) Violation of Florida's Code of Ethics;

(g) Loss or suspension of license to practice law;

(h) Misconduct as defined by Florida Statute 443.036(29), as amended from time to time; or

(i) Breach of this contract.

8. <u>Outside Activities.</u>

The employment provided for by this Agreement shall be **SWEENEY's** primary employment. Recognizing that certain outside consulting or teaching opportunities provide indirect benefits to **SWEENEY** and the community, **SWEENEY** may elect to accept limited teaching, consulting or other business opportunities with the understanding that such arrangements must neither constitute interference with nor a conflict of interest with **SWEENEY's** responsibilities under this Agreement. Any outside consulting or business opportunities shall be subject to prior approval by the

CITY.

9. Best Efforts of Employee.

SWEENEY agrees that he will at all times faithfully, industriously and to the best of his ability, experience and talents, perform all the duties which may be required of and from him pursuant to the express and Implicit terms hereof, to the reasonable satisfaction of **CITY. SWEENEY** further agrees that he will continue his education and training so that he will keep up with or exceed education requirements of his position. Such duties shall be rendered at Fort Pierce, St. Lucie County, Florida, and at such other places as **CITY** shall in good faith require, or as the interest, needs or opportunity of **CITY** shall require.

10. Disability.

If **SWEENEY** is permanently disabled or is otherwise unable to perform his duties because of sickness, accident, injury, mental Incapacity or health for a period of either eight (8) successive weeks beyond any accrued sick leave, or for twenty (20) working days over a sixty (60) working day period, **CITY** shall have the option to terminate this Agreement, subject to the severance pay requirements of Paragraph 7. However, **SWEENEY** shall be compensated for any accrued sick leave, vacation, holidays, and other accrued benefits, as defined in the City's Personnel Rules and Regulations.

11. Residency.

SWEENEY shall establish permanent residency within the City of Fort Pierce, Florida, within two years of the effective date of this Employment Agreement.

12. Employee At-Will.

SWEENEY is an employee-at-w ill and works at the pleasure of the **CITY** who may, at any time and without showing cause, terminate this Employment Agreement.

13. Liability Claims.

The **CITY** shall defend and save harmless **SWEENEY,** but only to the limits of sovereign Immunity, against any tort, professional liability claim or demand or other legal claim or action, whether groundless or otherwise, arising out of an alleged act or omission occurring in or arising out of the good faith performance of **SWEENEY's** duties as City Attorney of the City of Fort Pierce. However, this covenant shall not apply to acts outside the scope of **SWEENEY's** employment or services or for claims for punitive damages. In the event that the provision of legal representation by the **CITY** may reasonably present a legal conflict of interest, **SWEENEY** may request independent legal representation at **ClTY'S** expense, and the **CITY** may not unreasonably withhold approval of such request. Legal representation provided by the **CITY for SWEENEY** shall extend until a final unappealable determination of the legal action. In the event Independent legal representation is provided to **SWEENEY,** any settlement of any claim against **SWEENEY** may not be made without prior approval of the **CITY.** The **CITY** will have the authority to compromise and settle any such claim or suit within the scope of **SWEENEY's** employment and pay the amount of any settlement or judgment rendered thereon. To the maximum extent permitted by law, the **CITY** and **SWEENEY** shall rely upon the doctrine of sovereign immunity and the provisions of Section 768.28, Florida Statutes, or other applicable law.

14. Voluntary Resignation.

In the event **SWEENEY** voluntarily resigns his position with the **CITY, SWEENEY** shall provide a minimum ninety (90) days written notice unless the parties agree otherwise. Unless such resignation follows a formal offer to accept resignation made by the majority of the entire City Commission as specified In Paragraph 6(c) above, **SWEENEY** shall not be entitled to nor shall the **CITY** be liable to pay severance If **SWEENEY** voluntarily resigns.

15. General provisions.

The following general provisions shall govern this Agreement:

(a) This Agreement shall be governed in accordance with the laws of the State of Florida.

(b) Jurisdiction over any dispute arising under this Agreement, and the venue thereof, shall lie in the Circuit Court of the Nineteenth Judicial Circuit, in and for St. Lucie County, Florida.

(c) This Agreement shall become effective immediately upon execution, and supersedes and replaces any prior written employment agreement.

(d) This Agreement constitutes the entire agreement and understanding between the parties and contains all of the agreements between them with respect to the subject matter hereof, and supersedes any and all other agreements or contracts, either oral or written, between the parties with respect to the subject matter hereof.

(e) The parties by mutual written agreement may amend any provision of this Agreement during the life of the agreement by document approved and signed with the same formalities as this Agreement. Such amendments will be incorporated and

made a part of this Agreement.

(f) The invalidity or partial invalidity of any portion of this Agreement will not affect the validity of any other provision. In the event that any provision of this Agreement is held to be invalid, the remaining provisions shall be deemed to be in full force and effect as if they have been executed by both parties subsequent to the expungement or judicial modification of the invalid provision.

(g) This Agreement shall be binding upon and inure to the benefit of the **CITY** and the City Commission, its successors and assigns, and shall be binding upon **SWEENEY,** his administrators, executors, legatees, heirs, and assigns.

IN WITNESS WHEREOF, the parties have hereunto set their hands and seals on the day and year first above written.

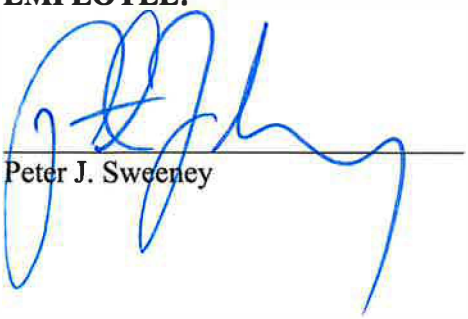
CITY OF FORT PIERCE, FLORIDA

BY: _____
Linda Hudson, Mayor

ATTEST:

Linda Cox, City Clerk

EMPLOYEE:



Peter J. Sweeney

Approved as to Form and Correctness

~~Robert V. Schwerer~~Benjamin L. Bryan, Jr., Interim City Attorney

City Commission Regular Meeting **12.a.**

Meeting Date: 12/17/2018

Re: 2017-2018 CAPER Report Presentation and Public Hearing

Submitted For: Libby Woodruff, Manager, Finance Department

SUBJECT:

Presentation and Public Hearing of 2017-2018 Consolidated Annual Performance Evaluation Report (CAPER).

SUMMARY:

This is a presentation to inform the public of programs, projects, activities and accomplishments related to the 2017-2018 CDBG program and also a public hearing following the presentation.Staff will submit the 2017-2018 CAPER to HUD, as required, following the public hearing.

RECOMMENDATION:

Allow a presentation and public hearing on the 2017-2018 Consolidated Annual Performance Evaluation Report (CAPER).

ALTERNATIVES:

Do not allow a presentation and public hearing.

RESPONSIBLE STAFF:

Libby Woodruff, Manager, Grants Administration Division

COORDINATED WITH:

Johnna Morris, Director of Finance

Fiscal Impact

Budgeted Y/N:	N
Fiscal Year:	N/A
Account:	N/A
Amount:	0

OTHER INFORMATION:

There will be no fiscal impact from creating or submitting this CAPER report to HUD.

Attachments

DRAFT CAPER

Form Review

Inbox	Reviewed By	Date

Finance Department	Johnna Morris	12/11/2018 03:51 PM
City Manager	Nick Mimms	12/12/2018 11:47 AM
Form Started By: Libby Woodruff		Started On: 11/13/2018 08:41 AM
Final Approval Date: 12/12/2018		

CR-05 - Goals and Outcomes

Progress the jurisdiction has made in carrying out its strategic plan and its action plan. 91.520(a)
This could be an overview that includes major initiatives and highlights that were proposed and executed throughout the program year.

The City's primary objectives in our 2016-2020 Strategic Plan and for PY17-18 Action Plan is the development of a viable urban community, including decent housing and a suitable living environment for persons of very low to moderate income, and to stabilize and expand small businesses.

Following is a breakout of the City's accomplishments toward carrying out our 2016-2020 Strategic Plan and our PY17-18 Action Plan objectives:

Comparison of the proposed versus actual outcomes for each outcome measure submitted with the consolidated plan and explain, if applicable, why progress was not made toward meeting goals and objectives. 91.520(g)
Categories, priority levels, funding sources and amounts, outcomes/objectives, goal outcome indicators, units of measure, targets, actual outcomes/outputs, and percentage completed for each of the grantee's program year goals.

Goal	Category	Source / Amount	Indicator	Unit of Measure	Expected – Strategic Plan	Actual – Strategic Plan	Percent Complete	Expected – Program Year	Actual – Program Year	Percent Complete
Code Enforcement	Code Enforcement	General Fund: $	Housing Code Enforcement/Foredosed Property Care	Household Housing Unit	250	540	216.00%	550	572	104.00%
Economic Opportunity	Non-Housing Community Development	CDBG: $	Facade treatment/business building rehabilitation	Business	50	3	6.00%			
Economic Opportunity	Non-Housing Community Development	CDBG: $	Jobs created/retained	Jobs	50	117	234.00%			

Economic Opportunity	Non-Housing Community Development	CDBG: $	Businesses assisted	Businesses Assisted	300	183	61.00%	150	45	30.00%
Home Rehab / Home Purchase Assist / Fair Housing	Affordable Housing	CDBG: $ / General Fund: $ / State Housing Initiatives Partnership (SHIP): $	Homeowner Housing Rehabilitated	Household Housing Unit	365	49	13.42%	50	72	144.00%
Home Rehab / Home Purchase Assist / Fair Housing	Affordable Housing	CDBG: $ / General Fund: $ / State Housing Initiatives Partnership (SHIP): $	Direct Financial Assistance to Homebuyers	Households Assisted	30	12	40.00%	20	13	65.00%
Neighborhood Revitalization	Non-Housing Community Development	CDBG: $	Public service activities other than Low/Moderate Income Housing Benefit	Persons Assisted	0	0		15500	16000	103.23%
Neighborhood Revitalization	Non-Housing Community Development	CDBG: $	Jobs created/retained	Jobs	100	55	55.00%	60	60	100.00%
Neighborhood Revitalization	Non-Housing Community Development	CDBG: $	Businesses assisted	Businesses Assisted	250	60	24.00%	60	45	75.00%

Public Facilities	Homeless Non-Housing Community Development	CDBG: $	Public Facility or Infrastructure Activities other than Low/Moderate Income Housing Benefit	Persons Assisted	10000	18516	185.16%	14000	15000	107.14%
Public Facilities	Homeless Non-Housing Community Development	CDBG: $	Homeless Person Overnight Shelter	Persons Assisted	300	52	17.33%			
Public Services	Homeless Non-Homeless Special Needs Non-Housing Community Development Public Supportive Services	CDBG: $	Public service activities other than Low/Moderate Income Housing Benefit	Persons Assisted	16500	5837	35.38%			

Public Services	Homeless Non-Homeless Special Needs Non-Housing Community Development Public Supportive Services	CDBG: $	Public service activities for Low/Moderate Income Housing Benefit	Households Assisted	0	0		3500	3500	100.00%
Public Services	Homeless Non-Homeless Special Needs Non-Housing Community Development Public Supportive Services	CDBG: $	Homeless Person Overnight Shelter	Persons Assisted	0	0				

Table 1 - Accomplishments – Program Year & Strategic Plan to Date

Assess how the jurisdiction's use of funds, particularly CDBG, addresses the priorities and specific objectives identified in the plan, giving special attention to the highest priority activities identified.

The City of Fort Pierce utilized CDBG funds to support programs, projects and organizations the promote revitalization and stabilization,

economic viability and small business expansion an job creation that is primarily focused on lower income residents and neigh borhoods. Addiitonally, the City continues to emphasize the development of a viable urban community and conform to the primary objectives of the department of Housing and Community Development Act of 1974, as amended.

CR-10 - Racial and Ethnic composition of families assisted

Describe the families assisted (including the racial and ethnic status of families assisted). 91.520(a)

	CDBG
White	751
Black or African American	1,351
Asian	0
American Indian or American Native	0
Native Hawaiian or Other Pacific Islander	0
Total	**2,102**
Hispanic	247
Not Hispanic	1,855

Table 2 – Table of assistance to racial and ethnic populations by source of funds

Narrative

The City captures racial and ethnic information on families assisted through our public service and small business grant award programs and through the SHIP housing rehab and down payment assistance programs.

CR-15 - Resources and Investments 91.520(a)

Identify the resources made available

Source of Funds	Source	Resources Made Available	Amount Expended During Program Year
CDBG	CDBG	481,374	435,348
HOME	HOME		
HOPWA	HOPWA		
ESG	ESG		
General Fund	General Fund	70,000	70,000
Other	Other	873,682	873,682

Table 3 - Resources Made Available

Narrative

Identify the geographic distribution and location of investments

Target Area	Planned Percentage of Allocation	Actual Percentage of Allocation	Narrative Description
City limits Low/Mod	80	80	

Table 4 – Identify the geographic distribution and location of investments

Narrative

The georgraphic distribution and location of investments include areas within the City of Fort Pierce where no less than 51% of the population is extremely low, very low, low and moderate income, according to the US Census.

Leveraging

Explain how federal funds leveraged additional resources (private, state and local funds), including a description of how matching requirements were satisfied, as well as how any publicly owned land or property located within the jurisdiction that were used to address the needs identified in the plan.

Code Enforcement - The City of Fort Pierce provided more than $50,000 from the general fund to provide a Code Enforcement officer to staff a very low-income neighborhood in our City.

Small Business Expo - The City partnered with Allegany Franciscan Ministries, Indian River State College, Treasure Coast Black Chamber of Commerce, Career Source Research Coast, Service Corps of Retired Executives (SCORE), St. Lucie County Economic Develop Council (EDC), businesses and community organizations to provide the Lincoln Park Business Expo. The Expo provided educatdional workshops and public speakers for 80+ small business owners and entrepreneurs.

Highwaymen Heritage Trail Art Show and Festival – Numerous area businesses and organizations help offset the costs to provide this annual creative placemaking economic development event in a very low-income historic minority neighborhood to celebrate the "Original" and "2nd Generation" Highwaymen Artists.

Annual Job Fair - The City partners with Allegany Franciscan Ministries, St. Lucie County Economic Development Council and Career Source Resource Coast to help offset the costs associated with this annual event. Allegany Franciscan Ministries provided $5,000 for the event. St. Lucie County provided a portion of rent on a large facility and Career Source Research Coast provided manpower to help organize and oversee the event.

Weatherization Program - The City partnered with the Fort Pierce Utilities Authority (FPUA) to provide a weatherization program for 14 of our extremely low income and senior citizens. The City contributed $20,000 from CDBG; Fort Pierce Utilities Authority contributed $75,000.

World Changers / "Paint Our Town" – The City of Fort Pierce used CDBG funds to purchase supplies and materials for the World Changers, and Paint Our Town volunteers to paint and repair 14 homes belonging to some of our poorest citizens during PY17.

State Housing Initiatives Partnership (SHIP) Program - The City of Fort Pierce provided thirty-one (31) owner-occupied home rehabilitations and assisted five (5) income qualified families with downpayment and closing cost assistance for home purchases. These two projects totalled $873,682 in SHIP funds.

1st Time Homebuyer Credit Counseling Services - Local banks provide Consumer Credit Counseling Services and six (60 new homebuyer workshops. Approximately 40 Fort Pierce residents attended the workshops. This service was provided at no cost to the City.

Fair Housing Workshops – the City of Fort Pierce partnered with Lincoln Park Main Street (Community Based Development Organization-CBDO) to provide two (2) Fair Housing Workshops in the Lincoln Park neighborhood. Lincoln Park Main Street provided this service at no additional cost to the City of Fort Pierce.

Fort Pierce HA - Section 8 Program - The FPHA managed an allocation of 844 vouchers, and 827 leases during PY17.

Habitat for Humanity - Habitat rehabilitated three (3) homes for lower income citizens in Fort Pierce during PY17. The City provided down payment/closing cost assistance for 3 Habitat home purchases through the SHIP program.

St. Lucie County Community Services - collaborations with St. Lucie County provided a homeless shelter for homeless families with children during the winter months.

Allegany Franciscan Ministries – Allegany helped cover the staffing costs to promote health, wellness, economic growth, small business development and investment in one of the poorest and oldest minority neighborhoods within the City.

CR-20 - Affordable Housing 91.520(b)

Evaluation of the jurisdiction's progress in providing affordable housing, including the number and types of families served, the number of extremely low-income, low-income, moderate-income, and middle-income persons served.

	One-Year Goal	Actual
Number of Homeless households to be provided affordable housing units	10	10
Number of Non-Homeless households to be provided affordable housing units	50	35
Number of Special-Needs households to be provided affordable housing units	20	20
Total	**80**	**65**

Table 5 – Number of Households

	One-Year Goal	Actual
Number of households supported through Rental Assistance	0	0
Number of households supported through The Production of New Units	0	0
Number of households supported through Rehab of Existing Units	50	61
Number of households supported through Acquisition of Existing Units	0	0
Total	**50**	**61**

Table 6 – Number of Households Supported

Discuss the difference between goals and outcomes and problems encountered in meeting these goals.

Providing affordable housing units continues to be an ongoing issue within the City of Fort Pie rce. The need for a transitional housing program for homeless families is also an ongoing issue. Both of these added to the problems encountered in meeting goals listed in the 2016-2020 Consolidated Plan.

The Fort Pierce Housing Authority's plans to convert a HA complex into transitional housing for our homeless families was recently denied by the Department of Housing and Urban Development (HUD).

For Program Year 2017-18, the Fort Pierce Housing Authority provided 10 affordable housing units to previously homeless citizens; 35 affordable housing units for income-qualified non-homeless citizens; and 20 affordable housing units for special needs citizens.

The City is currently working on short term solutions to address our transitional housing issue for our growing homeless population and solutions to address our lack of affordable decent housing. We have reached out to several nonprofits in the area and are meeting regularly to address this issue.

As stated earlier, the Treasure Coast Homeless Services Council, located in Indian River County in Vero Beach, Florida, is the CoC for St. Lucie, Indian River and Martin Counties. Most all of the grant funds for various homeless services stay in Indian River County. Our homeless numbers are continuously increasing and the City of Fort Pierce is determined to find solutions to assist this growing population.

Discuss how these outcomes will impact future annual action plans.

Outcomes related to establishing a workable transitional housing program for our growing homeless population may impact future annual action plans. Affordable housing solutions will be accomplished via collaborations with investors and partnerships with developers. We do not currently see this as impacting future annual action plans.

Include the number of extremely low-income, low-income, and moderate-income persons served by each activity where information on income by family size is required to determine the eligibility of the activity.

Number of Households Served	CDBG Actual	HOME Actual
Extremely Low-income	0	0
Low-income	0	0
Moderate-income	0	0
Total	**0**	**0**

Table 7 – Number of Households Served

Narrative Information

The City utilizes SHIP funds to assist extremely low income low-income and moderate income where family size is required to determine the eligibility of the activity. No CDBG funding was utilized to assist citizens under this criteria.

CR-25 - Homeless and Other Special Needs 91.220(d, e); 91.320(d, e); 91.520(c)

Evaluate the jurisdiction's progress in meeting its specific objectives for reducing and ending homelessness through:

Reaching out to homeless persons (especially unsheltered persons) and assessing their individual needs

1. The Treasure Coast Homeless Sevices Council, Inc. (TCHCS) serves as the official Continuum of Care for St. Lucie, Martin and Indian River Counties. It is the official qualified applicant for State and Federal homeless prevention and direct services funding on the Treasure Coast and the Lead Agency for the State Office on Homelessness. The City of Fort Pierce does not directly receive funding for homeless prevention.

The City sent a letter requesting assistance for our homeless population to the TCHCS in September, 2015 and later met with the executive director and requested assistance. We are hopeful that this meeting and future meetings will result in the TCHCS allowing the City of Fort Pierce to apply for grant funding through the Coalition to help address our growing homeless population. Currently, all funds received to benefit our homeless are utilized in Indian River County, primarily in the Vero Beach area.

The Director of the TCHSC recently sent a letter to HUD listing that they provide $310,908 for Permanent Supportive Housing in St. Lucie County. This is NOT Fort Pierce. This is to rent, from themselves, 10 single family homes and one duplex located in Lakewood Park, outside the City limits of Fort Pierce, in St. Lucie County completely rehabilitated by St. Lucie County through their Neighborhood Stabilization Program that were donated to the TCHSC. The TCHSC provides limited funding for housing for homeless veterans in St. Lucie County as well.

Addressing the emergency shelter and transitional housing needs of homeless persons

The City is currently working with the Fort Pierce Housing Authority and several area nonprofits that currently provide services for our growing homeless population to create a transitional housing program.

The City is working with St. Lucie County Community Services Division to assist in providing a homeless shelter that houses homeless families with children. The City will utilize CDBG funds to assist with covering the costs of opening a 'cold weather shelter' during the winter months.

Helping low-income individuals and families avoid becoming homeless, especially extremely low-income individuals and families and those who are: likely to become homeless after being discharged from publicly funded institutions and systems of care (such as health care facilities, mental health facilities, foster care and other youth facilities, and corrections programs and institutions); and, receiving assistance from public or private agencies that

address housing, health, social services, employment, education, or youth needs

1. The Treasure Coast Homeless Services Council (TCHCS), the Continuum of Care for Indian River, St. Lucie and Martin Counties, provides a homeless services center in Vero Beach Florida, which provides approximately $300,000 per year in direct assistance to homeless and near-homeless families and $800,000 per year in rental housing payments on behalf of the disabled. TCHCS also provides approximately $300,000 annually in direct funding to the homeless family shelter on the Treasure Coast, serving Indian River, St. Lucie and Martin Counties. Approximately thirty percent (40%) of the Homeless Family Center's clients were from the City of Fort Pierce during PY17.

Based on the "Certification of Consistency with the Consolidated Plan" form that the City of Fort Pierce recently received from the TCHCS, St. Lucie County receives $289,776 in funding that is only used to cover the rent for chronically homeless individuals and families. No funding is provided to City of Fort Pierce agencies that provide services to the homeless. According to the National Council on Homelessness there were 1,732 homeless people in 2017 in St. Lucie County/Fort Pierce. This is a direct conflict with the number of homeless reported by the Treasure Coast Homeless Services Council Point in Time County for 2017, which lists 642 homeless individuals.

Helping homeless persons (especially chronically homeless individuals and families, families with children, veterans and their families, and unaccompanied youth) make the transition to permanent housing and independent living, including shortening the period of time that individuals and families experience homelessness, facilitating access for homeless individuals and families to affordable housing units, and preventing individuals and families who were recently homeless from becoming homeless again

1. The Treasure Coast Homeless Sevices Council, Inc. (TCHCS) serves as the official Continuum of Care for St. Lucie, Martin and Indian River Counties. It is the official qualified applicant for State and Federal homeless prevention and direct services funding on the Treasure Coast and the Lead Agency for the State Office on Homelessness. The City of Fort Pierce does not directly receive any funds for homeless
programs.

2. The City of Fort Pierce is currently working with the Fort Pierce Housing Authority and local nonprofits and community organizations to increase services to our growing homeless population that will hopefully make easier the transition to permanent housing and independent living, shorten the period of time that individuals and families experience homelessness, improve access for homeless individuals and families to affordable housing units and prevent individuals and families who were recently homeless from becoming homeless again.

CR-30 - Public Housing 91.220(h); 91.320(j)

Actions taken to address the needs of public housing

The delivery of public housing requires the coordination of a number of agencies, both public and private. These agencies will continue to work together to eliminate potential gaps within the delivery systems in Fort Pierce. A vital agency in this initiative is the Fort Pierce Housing Authority (FPHA).

For PY17, FPHA activities included:

- Up to $10,000 in educational scholarships were available to outstanding students in FPHA's Public Housing, Section 8 Housing Choice Voucher Program, or its Affordable Housing Program to start or continue secondary education. Scholarships were available for Associate Degrees, Bachelor Degrees, Master's Degree or Vocational Training.

- Allocating 844 Section 8 vouchers and provided 827 Public Housing leases and administers 18 units of non-subsidized rentals. Out of 844, 39% of the households-elderly and/or disabled; 11%-elderly (not disabled).

- Crime Reduction Initiatives – increase site lighting to numerous units and on site's parking/ pedestrian area redesign.

- Administered a Family Self – Sufficiency Program for both its Section 8 Housing Choice Voucher and Public Housing Programs. This program is designed to mentor families and link them to services, training, education and childcare to help them eliminate the need for welfare.

- Provided 35 HUD-Veterans Affairs Supportive Housing (HUD-VASH) program vouchers in conjunction with the Section 8 Housing Choice Voucher program.

- Allocated Section 8 Housing Choice Vouchers to local area witnesses of violent crime who agree to testify in court. The use of these vouchers is to relocate witnesses and protect against potential retaliation.

Actions taken to encourage public housing residents to become more involved in management and participate in homeownership

The Fort Pierce Housing Authority provides the Family Self – Sufficiency Program for both its Section 8 Housing Choice Voucher and Public Housing Programs. This program is designed to mentor families and link them to services, training, education and childcare to help them eliminate the need for welfare.

Actions taken to provide assistance to troubled PHAs

The Fort Pierce Housing Authority (FPHA) is not designated as a 'troubled PHA."

CR-35 - Other Actions 91.220(j)-(k); 91.320(i)-(j)

Actions taken to remove or ameliorate the negative effects of public policies that serve as barriers to affordable housing such as land use controls, tax policies affecting land, zoning ordinances, building codes, fees and charges, growth limitations, and policies affecting the return on residential investment. 91.220 (j); 91.320 (i)

The City has evaluated public policies, land use controls, tax policies, zoning ordinances, building codes, fees and charges, growth limitations to determine if there could be negative effects that serve as barriers to affordable housing. We have not determined that any of these are a factor in affordable housing development. We are currently considering ways to encourage affordable housing development within the City.

The City has not detected that we are causing a negative impact on the development of affordable housing. Compared to surrounding communities, the City's fees and policies are reasonable. Nevertheless, the City will continue to periodically reassess development and impact fees, regulations and program policies and procedures and if we ascertain that a revision to these would enhance affordable housing opportunities for lower income residents of the City, we will certainly execute policy revisions, as needed, and as quickly as possible.

Actions taken to address obstacles to meeting underserved needs. 91.220(k); 91.320(j)

The City is working to address underserved needs, including support for the Fort Pierce Housing Authority's (FPHA) application for tax credits to rehabilitate a former hospital into apartments for lower-income senior and/or disabled citizens, slum and blight and infrastructure improvements in lower-income neighborhoods, and assistance with weatherization improvements for our lower-income citizens. The FPHA was denied funding in their first four (4) requests and are awaiting news of their fourth attempt at this funding request.

The City is also contacting investors and developers and has identified several parcels of land that could be used for affordable housing development. We continue to utilize our SHIP program, work with Habitat for Humanity, World Changers and through our Paint Our Town program to improve our existing housing stock.

Actions taken to reduce lead-based paint hazards. 91.220(k); 91.320(j)

1. During PY17, the City continued to encourage residents and property owners to test for and reduce lead paint. Homes assisted with CDBG or SHIP funding that were built prior to 1978 are automatically tested for lead-based paint, and safe practices and abatement/reduction procedures are followed on projects where lead based paint is identified.

Actions taken to reduce the number of poverty-level families. 91.220(k); 91.320(j)

The 2008 housing market crash led to drastically decreased property values which has increased the amount of affordable housing opportunities for low and moderate income residents. Unfortunately, home prices have steadily increased throughout PY17. Investors have purchased hundreds of foreclosed homes within the City, leaving very few affordable homes available for first time homebuyers and lower income citizens to purchase. Properties financed through Fannie Mae and Freddie Mac coming out of foreclosure are offered to qualifying citizens for approximately 30 days before they are available to investors, which is very helpful.

The City offered Down Payment and Closing Cost Assistance up to $15,000 for first time income-qualified citizens of Fort Pierce through the State Housing Initiatives Partnership (SHIP) program until all funds were expended earlier this year. Over the past 3 years, we have assisted 12 families in purchasing new homes.

The economic downturn resulted in soaring unemployment and Fort Pierce still has not recovered. Fort Pierce's unemployment rate in June, 2018 was 6.4%, compared to St. Lucie County's rate, which was at 4.2%, and the State of Florida, which was 3.8%. Unemployment and also "underemployment" remain on the forefront for the City of Fort Pierce, St. Lucie County, the State of Florida and the entire country.

The City is currently partnering with Career Source Research Coast and Indian River State College to provide free job training opportunities and an annual Job Fair. We are hopeful this will result in more of our citizens having marketable skills which will lead to better paying jobs. We are also talking with regional developers development of affordable housing and manufacturing opportunities within the City.

The City is currently visiting surrounding cities to learn more about successful Land Trust programs in hopes that we will be able to establish a Land Trust that will ensure affordable housing home ownership options for our lower income citizens.

Actions taken to develop institutional structure. 91.220(k); 91.320(j)

1. The City of Fort Pierce works with the City of Port St. Lucie and St. Lucie County to coordinate three Housing Assistance Programs (CDBG, SHIP, and Hardest Hit). Quarterly lending consortium meetings are held to keep the groups connected and focused on affordable housing issues.

The City has been successful in engaging the Fort Pierce Housing Authority (FPHA), local non-profits, financial institutions, and the private sector in the provision of low and moderate-income housing. No gaps have been identified in this institutional structure.

Actions taken to enhance coordination between public and private housing and social service agencies. 91.220(k); 91.320(j)

1. The delivery of public housing requires the coordination of a number of agencies, both public and private. These agencies will continue to work together to eliminate potential gaps within the delivery systems in Fort Pierce. A vital agency in this initiative is the Fort Pierce Housing Authority (FPHA). The City regularly provides staff to attend monthly FPHA meetings and various social service agency meetings to increase collaborative opportunities and enhance coordination in services.

Identify actions taken to overcome the effects of any impediments identified in the jurisdictions analysis of impediments to fair housing choice. 91.520(a)

Please see attached chart listing activities either currently underway or scheduled to be carried out to address the impediments identified in the 2016-2020 Assessment of Fair Housing Report for the City of Fort Pierce, Florida.

CR-40 - Monitoring 91.220 and 91.230

Describe the standards and procedures used to monitor activities carried out in furtherance of the plan and used to ensure long-term compliance with requirements of the programs involved, including minority business outreach and the comprehensive planning requirements

Program Performance. The primary means of assessing program performance is through the development of the Consolidated Annual Performance and Evaluation Report (CAPER) at the end of each program year. The information that is provided in this report allows the City and HUD to review the overall program's performance. The performance measurement system clearly demonstrates whether the City has met the annual goals and objectives and is on target to meet its projected goals and objectives.

The final layer of program performance is provided through an annual audit by external independent auditors. Information obtained from these audits is evaluated and incorporated, as appropriate, as revisions to the City's policies and procedures.

- **Contract Agreements.** The City enters into binding contractual agreements with parties participating in federal programs. Such agreements are useful tools for insuring compliance with program provisions by the City and these parties. Additionally, these agreements provide a basis for enforcing program requirements and for identifying remedies in the event of a breach of the provisions by these parties. Elements contained in these agreements are inclusive of, but not limited to: type of activity, specific "boiler plate" provisions, other terms and conditions, special program requirements, budget, scope of services, reporting requirements, and other special provisions.
- **Onsite Monitoring Visits** - The Grants Administration Staff provides onsite monitoring visits to 'spot check' grant recipients' project/program/business and record keeping. Onsite monitoring reports are filed in individual subrecipient's project files.

Citizen Participation Plan 91.105(d); 91.115(d)

Describe the efforts to provide citizens with reasonable notice and an opportunity to comment on performance reports.

The City follows our Citizen Participation Plan's directives on providing reasonable notice and opportunities for citizens to comment on performance reports. This Consolidated Annual Performance

Report's availability and announcement for a Public Hearing was advertised in a local free paper on November 29, 2018, and on the City's website for 15 days. A public hearing, following a presentation of the 2017-18 Consolidated Annual Performance Report was held at a regularly-scheduled Fort Pierce City Commission meeting on December 17, 2018. All comments received during the Public Comment Period and Public Hearing are included with this report.

CR-45 - CDBG 91.520(c)

Specify the nature of, and reasons for, any changes in the jurisdiction's program objectives and indications of how the jurisdiction would change its programs as a result of its experiences.

Creating an environment conducive to economic growth is a complex process, requiring planning, community leadership and involvement, and innovative thinking. Jobs alone will not necessarily generate sustainable economic opportunity. What worked twenty years ago will not necessarily create a solid economic base today, particularly in smaller urban settings.

The City of Fort Pierce recognizes that our tourism industry is an integral and important part of the future economic development and employment growth within the area. Support for the continued competitiveness of our local tourism industry and the creation of an environment where businesses can succeed, in all commercial areas of the City, are central to our objectives.

Many factors contribute to whether or not a community can generate and sustain economic opportunity, including community quality of life, the appearance and vitality downtown areas, business centers and surrounding residential neighborhoods and commercial corridors, infrastructure availability and capacity, the presence of essential services such as health and public safety, education and skill level of the workforce, ability of the community to provide for current and future workforce needs, adequate and easily-accessible transportation that provides access to markets and linking employers, customers and employees, and so forth.

At the same time, the existence and obstacles to development, such as abandoned and dilapidated buildings that dominate decaying town centers can impede economic growth if they are not identified and eliminated.

The City's strategy is reflected in its 2016-2020 Consolidated and annual Action Plans and involves addressing code violations, improving infrastructure and helping to rebuild a sense of 'community' in our lower-income neighborhoods and commercial corridors, revitalizing and invigorating commercial areas, stabilizing and improving the sustainability of local businesses, addressing brownfields and environmental and expanding overall essential business and residential services.

The City will continue to pursue other forms of public and private assistance that will directly result in new or retained jobs, particularly for low and moderate income residents and for projects and activities

that enrich communities, revitalize neighborhoods and holistically address elements that impact the City's attractiveness to business and industry, its ability to grow local businesses and in dustry and its overall ability to support economic activity and growth.

Does this Jurisdiction have any open Brownfields Economic Development Initiative (BEDI) grants?

Yes

[BEDI grantees] Describe accomplishments and program outcomes during the last year.

Grantee Name - Coral Square Shops of Florida, LLC

State - Florida

Section 108 Project # - B-08-MS-12-0031

108 Loan Amount - $3,395,000

108 Amt Advanced - $3,395,000

Total CDBG Assistance Provided - $0

FTE Jobs Est in 108 Application - 115

Total Actual FTE Jobs Created or Retained - 65

# of FTE Jobs Held by / Made Available to Low/Mod - 30

Total Housing Units Assisted - 0

Slum/Blighted Area - Yes



2017-2018 Program Year
Consolidated Annual Performance Evaluation Report (CAPER)

2nd Program Year
2016-2020 5-Year Consolidated Plan

Respectfully Submitted by:
The City of Fort Pierce, Florida

2017 Fair Housing Activities

City of Fort Pierce, Florida
Fair Housing Activities – 2017-18

Impediment #1 – Housing/Lending Discrimination on the basis of Race, Color, National Origin, Religion, Familial Status and Disability				
Goal	**Contributing Factors**	**Fair Housing Issues**	**Metrics, Milestones, and Timeframe for Achievement**	**Responsible Participant(s)**
Work to Eliminate Housing/ Lending Discrimination in Fort Pierce.	Priority #1 – Discrimination Based on Disability Priority #2 – Discrimination Based on Race Priority #3 – Sub-Prime, High-Cost Loans based on race/ethnicity Priority #4 – Discrimination against people in protected classes	Housing/Lending Discrimination on basis of race, color, national origin, religion, sex familial status and disability	1) During 2016-2020, provide at least two Fair Housing Workshops during each program year; feature information on types of discrimination, 'redlining', 'reverse redlining', sub-prime, high-cost loans, protected classes, how to file a fair housing complaint, etc.; 2) During 2016-2020, promote and provide at least four First Time Homebuyer Workshops during each program year; 3) During 2016-2020, provide Fair Housing Complaint Forms in English and Spanish – throughout each program year; 4) During 2016-2020, provide Fair Housing information to lending consortiums throughout area throughout each program years; 5) During 2016-2020, request the local newspapers print HUD-approved Fair Housing Notices, in English and Spanish in the real estate section once each quarter during program years; 6) During 2016-2020, provide HUD-approved Fair Housing commercials on the City's Public Access television channel, in English and Spanish throughout program years; 7) During 2016-2020, publish Fair Housing information in non-profit community newspapers throughout the program years, in English and Spanish; 8) During 2016-2020, provide Fair Housing brochures, posters, etc. at all City-sponsored events and at City Hall; and 9) During 2016-2020, forward all Fair Housing complaints that are received directly to HUD for investigation.	City of Fort Pierce Department of Urban Redevelopment
Discussion: Housing discrimination complaints based on disability ranked the highest in Fort Pierce. Race-based Fair Housing complaints ranked second. Sub-Prime high cost loans ranked third. Discrimination against people in protected classes by real estate and other housing professionals ranked fourth.				

Impediment #2 – Shortage of Affordable / Decent Housing Opportunities				
Goal	**Contributing Factors**	**Fair Housing Issues**	**Metrics, Milestones, and Timeframe for Achievement**	**Responsible Participant(s)**
Increase the number of affordable housing units within the City of Fort Pierce.	Priority #1 – Severe shortage of affordable/ decent housing in segregated and non-segregated areas.	Lack of Affordable, Decent Housing for Lower-income Citizens in non-segregated areas.	1) During 2016-2017 program year, introduce a resolution for City of Fort Pierce Commission for Inclusionary Housing, an affordable housing tool that links the production of affordable housing to the production of market-rate housing; requiring new residential developments to include a certain percentage of affordable housing units; 2) During 2016-2020 continue providing weatherization program funding through CDBG and partnerships with Fort Pierce Utilities Authority and the Centro Campesino to lower income citizens to improve home capacity to protect against the elements and reduce utility bills for lower-income residents; 3) During 2016-2020, continue using State Housing Initiatives Partnership (SHIP) funds to rehabilitate owner-occupied homes belonging to lower-income citizens; 4) During 2016-2020, provide SHIP funds for down-payment and closing cost assistance for lower-income citizens; 5) During 2016-2020, promote information at lending consortium meetings on affordable housing needs within the City of Fort Pierce; 6) During 2016-2020, provide CDBG funds as 'cash match' for Fort Pierce Housing Authority to apply for tax credits to rehabilitate an old abandoned hospital into a living facility for lower-income senior citizens; 7) During 2016-2020, continue to identify regional partners with similar affordable housing interests and potentially provide a fair housing center to provide ongoing education and enforcement programs; 8) During 2016-2020, continue funding Code Enforcement services to assess, and enforce current codes for landlord maintenance of property; and 9) During 2016-2020, continue to explore ways to increase the amount of affordable housing throughout the City, including examining ways to increase the amount of housing stock that is barrier free and ADA compliant.	City of Fort Pierce Department of Urban Redevelopment
Discussion: The Fort Pierce Housing Authority reports that there are approximately 8,997 applicants on the Section 8 Housing Choice Voucher Waiting List and approximately 1,593 applicants on the Public Housing Units Waiting List. The FPHA Housing Choice Voucher Waiting List is currently closed. It was last open for three days in May, 2015.				

Impediment #3 – Lack of Knowledge, Awareness of, or Education on Fair Housing Protections				
Goal	**Contributing Factors**	**Fair Housing Issues**	**Metrics, Milestones, and Timeframe for Achievement**	**Responsible Participant(s)**
Increase knowledge and awareness of fair housing protections and path to homeownership	Priority #1 – Citizens lack understanding of the path to homeownership and are unaware of fair housing protections	The Fair Housing Act protects people from discrimination when they are renting, buying, or securing financing for any housing, because of race, color, national origin, religion, sex, disability and the presence of children.	1) During 2016-2020, provide at least two Fair Housing Workshops during each program year; feature information on types of discrimination, 'redlining', 'reverse redlining', sub-prime, high-cost loans, protected classes, how to file a fair housing complaint, etc.; 2) During 2016-2020, promote and provide at least four First Time Homebuyer Workshops during each program year; 3) During 2016-2020, provide Fair Housing Complaint Forms in English and Spanish – throughout each program year; 4) During 2016-2020, provide Fair Housing information to lending consortiums throughout area throughout each program years; 5) During 2016-2020, request the local newspapers print HUD-approved Fair Housing Notices, in English and Spanish in the real estate section once each quarter during program years; 6) During 2016-2020, provide HUD-approved Fair Housing commercials on the City's Public Access television channel, in English and Spanish throughout program years; 7) During 2016-2020, publish Fair Housing information in non-profit community newspapers throughout the program years, in English and Spanish; 8) During 2016-2020, provide Fair Housing brochures, posters, etc. at all City-sponsored events and at City Hall; 9) During 2016-2020, we will continue updating the fair housing webpage on the City of Fort Pierce website; 10) During 2016-2020, the Fort Pierce City Commission will proclaim April of each year Fair Housing month; display Fair Housing posters throughout City Hall; and 11) During 2016-2020, forward all Fair Housing complaints that are received directly to HUD for investigation.	City of Fort Pierce Department of Urban Redevelopment
Discussion: This impediment was found to be the most common one within the City of Fort Pierce. Many potential homeowners lack the understanding of the path to homeownership, and a majority of loan denials are due to avoidable issues, such as incomplete loan applications, unverifiable information and collateral.				

Impediment #4 – Fair and Equal Lending Disparities				
Goal	**Contributing Factors**	**Fair Housing Issues**	**Metrics, Milestones, and Timeframe for Achievement**	**Responsible**
Promote Fair and Equal Lending Disparities	Priority #1 – Potential homebuyers are being turned down for lack of collateral, debt-to-income ratio and incomplete applications.	Disparities on loan approvals and denials by race and by Hispanic/ non-Hispanic ethnicity. African Americans and Hispanics tend to have higher loan application failure rates.	1) During 2016-2020, work with all members of St. Lucie County and Martin County Lending Consortiums to increase awareness of prevalent denial issues; 2) During 2016-2020, continue to provide referrals to credit counseling agencies to improve credit ratings, and debt-to-income ratios, for homeownership potential; 3) During 2016-2020, continue to provide promotional information for First-Time Homebuyer Workshops through public access venues; 4) During 2016-2020, promote and hold at least two (2) Fair Housing / Homeowner educational events each year. 5) During 2016-2020, promote and provide at least four First Time Homebuyer Workshops during each program year. 6) During 2016-2020, promote financial literacy educational events within the City of Fort Pierce; and 7) During 2016-2020, provide down payment and closing cost assistance to first-time homebuyers through the State Housing Initiatives Partnership (SHIP) program.	City of Fort Pierce Department of Urban Redevelopment
Discussion: The most prevalent reasons for loan application denials in the City of Fort Pierce are the loan applicant's collateral, debt-to-income ratio, and incomplete applications.				

Impediment #5 – Housing Market Segregation				
Goal	**Contributing Factors**	**Fair Housing Issues**	**Metrics, Milestones, and Timeframe for Achievement**	**Responsible**
Eliminate Segregated Neighborhoods in Fort Pierce	Priority #1 – Lack of amenities in lower-income minority neighborhoods. Priority #2 – Lack of public and private investment in lower-income minority neighborhoods Priority #3 – Housing and Mortgage Market Discrimination	Housing Market Segregation	1) During 2016-2020, continue 'creative placemaking initiative'- self-guided cultural history trails, events we promote across the U.S., commercial façade grants, beautification projects, art shows, festivals, etc., in segregated neighborhoods; 2) During 2016-2020, provide land and incentives for investment development of grocery, retail, and other businesses in segregated neighborhoods; 3) During 2016-2020, continue collaborations with investors, developers and St. Lucie County to develop artist live/work areas in segregated historic neighborhoods; 4) During 2016-2020, work with the local Board of Realtors and Lending Consortium to promote Fair Housing. 5) Work with local Affordable Housing Advisory Committee to promote ways to enhance local land development regulations to augment fair housing.	City of Fort Pierce Department of Urban Redevelopment
Discussion: As in many cities across the United States, historical geographical segregation areas still exist in Fort Pierce. Activities geared toward creating open and inclusive neighborhoods will continue to be a high priority for the City of Fort Pierce.				

PR-26 Report

	Office of Community Planning and Development	DATE:	11-21-18
	U.S. Department of Housing and Urban Development	TIME:	11:00
	Integrated Disbursement and Information System	PAGE:	1
	PR26 - CDBG Financial Summary Report		
	Program Year 2017		
	FORT PIERCE , FL		

PART I: SUMMARY OF CDBG RESOURCES	
01 UNEXPENDED CDBG FUNDS AT END OF PREVIOUS PROGRAM YEAR	0.00
02 ENTITLEMENT GRANT	477,456.00
03 SURPLUS URBAN RENEWAL	0.00
04 SECTION 108 GUARANTEED LOAN FUNDS	0.00
05 CURRENT YEAR PROGRAM INCOME	0.00
05a CURRENT YEAR SECTION 108 PROGRAM INCOME (FOR SI TYPE)	0.00
06 FUNDS RETURNED TO THE LINE-OF-CREDIT	0.00
06a FUNDS RETURNED TO THE LOCAL CDBG ACCOUNT	0.00
07 ADJUSTMENT TO COMPUTE TOTAL AVAILABLE	0.00
08 TOTAL AVAILABLE (SUM, LINES 01-07)	477,456.00
PART II: SUMMARY OF CDBG EXPENDITURES	
09 DISBURSEMENTS OTHER THAN SECTION 108 REPAYMENTS AND PLANNING/ADMINISTRATION	333,719.46
10 ADJUSTMENT TO COMPUTE TOTAL AMOUNT SUBJECT TO LOW/MOD BENEFIT	0.00
11 AMOUNT SUBJECT TO LOW/MOD BENEFIT (LINE 09 + LINE 10)	333,719.46
12 DISBURSED IN IDIS FOR PLANNING/ADMINISTRATION	99,744.69
13 DISBURSED IN IDIS FOR SECTION 108 REPAYMENTS	0.00
14 ADJUSTMENT TO COMPUTE TOTAL EXPENDITURES	0.00
15 TOTAL EXPENDITURES (SUM, LINES 11-14)	433,464.15
16 UNEXPENDED BALANCE (LINE 08 - LINE 15)	43,991.85
PART III: LOWMOD BENEFIT THIS REPORTING PERIOD	
17 EXPENDED FOR LOW/MOD HOUSING IN SPECIAL AREAS	0.00
18 EXPENDED FOR LOW/MOD MULTI-UNIT HOUSING	0.00
19 DISBURSED FOR OTHER LOW/MOD ACTIVITIES	333,719.46
20 ADJUSTMENT TO COMPUTE TOTAL LOW/MOD CREDIT	0.00
21 TOTAL LOW/MOD CREDIT (SUM, LINES 17-20)	333,719.46
22 PERCENT LOW/MOD CREDIT (LINE 21/LINE 11)	100.00%
LOW/MOD BENEFIT FOR MULTI-YEAR CERTIFICATIONS	
23 PROGRAM YEARS(PY) COVERED IN CERTIFICATION	PY: PY: PY:
24 CUMULATIVE NET EXPENDITURES SUBJECT TO LOW/MOD BENEFIT CALCULATION	0.00
25 CUMULATIVE EXPENDITURES BENEFITING LOW/MOD PERSONS	0.00
26 PERCENT BENEFIT TO LOW/MOD PERSONS (LINE 25/LINE 24)	0.00%
PART IV: PUBLIC SERVICE (PS) CAP CALCULATIONS	
27 DISBURSED IN IDIS FOR PUBLIC SERVICES	81,523.76
28 PS UNLIQUIDATED OBLIGATIONS AT END OF CURRENT PROGRAM YEAR	0.00
29 PS UNLIQUIDATED OBLIGATIONS AT END OF PREVIOUS PROGRAM YEAR	0.00
30 ADJUSTMENT TO COMPUTE TOTAL PS OBLIGATIONS	0.00
31 TOTAL PS OBLIGATIONS (LINE 27 + LINE 28 - LINE 29 + LINE 30)	81,523.76
32 ENTITLEMENT GRANT	477,456.00
33 PRIOR YEAR PROGRAM INCOME	0.00
34 ADJUSTMENT TO COMPUTE TOTAL SUBJECT TO PS CAP	0.00
35 TOTAL SUBJECT TO PS CAP (SUM, LINES 32-34)	477,456.00
36 PERCENT FUNDS OBLIGATED FOR PS ACTIVITIES (LINE 31/LINE 35)	17.07%
PART V: PLANNING AND ADMINISTRATION (PA) CAP	
37 DISBURSED IN IDIS FOR PLANNING/ADMINISTRATION	99,744.69
38 PA UNLIQUIDATED OBLIGATIONS AT END OF CURRENT PROGRAM YEAR	0.00
39 PA UNLIQUIDATED OBLIGATIONS AT END OF PREVIOUS PROGRAM YEAR	0.00
40 ADJUSTMENT TO COMPUTE TOTAL PA OBLIGATIONS	0.00
41 TOTAL PA OBLIGATIONS (LINE 37 + LINE 38 - LINE 39 +LINE 40)	99,744.69
42 ENTITLEMENT GRANT	477,456.00
43 CURRENT YEAR PROGRAM INCOME	0.00
44 ADJUSTMENT TO COMPUTE TOTAL SUBJECT TO PA CAP	0.00
45 TOTAL SUBJECT TO PA CAP (SUM, LINES 42-44)	477,456.00
46 PERCENT FUNDS OBLIGATED FOR PA ACTIVITIES (LINE 41/LINE 45)	20.89%

LINE 17 DETAIL: ACTIVITIES TO CONSIDER IN DETERMINING THE AMOUNT TO ENTER ON LINE 17

Report returned no data.

LINE 18 DETAIL: ACTIVITIES TO CONSIDER IN DETERMINING THE AMOUNT TO ENTER ON LINE 18

Report returned no data.

LINE 19 DETAIL: ACTIVITIES INCLUDED IN THE COMPUTATION OF LINE 19

Plan Year	IDIS Project	IDIS Activity	Voucher Number	Activity Name	Matrix Code	National Objective	Drawn Amount
2016	6	940	6167379	Public Facilities Improvements	03E	LMA	$10,544.08
2016	6	940	6176271	Public Facilities Improvements	03E	LMA	$5,425.92
					03E	**Matrix Code**	**$15,970.00**
2017	6	963	6176271	Public Facilities	03F	LMA	$3,412.62
					03F	**Matrix Code**	**$3,412.62**
2013	12	870	6109383	Infrastructure Improvements	03K	LMA	$1,384.00
2013	12	870	6139019	Infrastructure Improvements	03K	LMA	$3,046.20
2013	12	870	6152397	Infrastructure Improvements	03K	LMA	$15,000.00
					03K	**Matrix Code**	**$19,430.20**
2015	3	913	6152397	Summer Jam Basketball Camp	05D	LMC	$282.20
2016	5	937	6152397	Summer Jam Basketball Camp - 2017	05D	LMC	$771.24
2016	5	937	6167379	Summer Jam Basketball Camp - 2017	05D	LMC	$2,556.41
2016	5	937	6176271	Summer Jam Basketball Camp - 2017	05D	LMC	$9,042.85
2016	5	947	6090071	Boys & Girls Clubs of SLC - PSA Grantee	05D	LMC	$2,877.15
2016	5	949	6090071	END It! Corporation - PSA Grantee	05D	LMC	$2,730.73
2016	5	950	6090071	Exec Roundtable of St. Lucie County - PSA Grantee	05D	LMC	$1,621.87
2016	5	950	6109383	Exec Roundtable of St. Lucie County - PSA Grantee	05D	LMC	$1,173.84
2016	5	951	6090071	In the Image of Christ - PSA Grantee	05D	LMC	$2,783.40
2016	5	952	6090071	Learn to Read St. Lucie - PSA Grantee	05D	LMC	$3,319.16
2016	5	953	6090071	Mount Bethel Human Services Corp - PSA Grantee	05D	LMC	$1,300.00
2016	5	954	6090071	Police Athletic League - PSA Grantee	05D	LMC	$4,000.00
2016	5	956	6139019	St. Lucie Education Foundation - PSA Grantee	05D	LMC	$3,034.79
2016	5	957	6090071	Sword Outreach Mentoring & Resource Center - PSA Grantee	05D	LMC	$205.15
2016	5	958	6090071	TC Youth Sailing Foundation - PSA Grantee	05D	LMC	$2,783.50
					05D	**Matrix Code**	**$38,482.29**
2016	5	955	6090071	Treasure Coast SCORE - PSA Grantee	05H	LMA	$2,052.26
					05H	**Matrix Code**	**$2,052.26**
2016	5	939	6139019	Homeless Shelter Services for Children	05N	LMC	$5,104.00
2016	5	959	6090071	United Against Poverty - PSA Grantee	05N	LMC	$100.00
2016	5	959	6109383	United Against Poverty - PSA Grantee	05N	LMC	$3,900.00
2016	5	959	6167379	United Against Poverty - PSA Grantee	05N	LMC	$1,000.00
					05N	**Matrix Code**	**$10,104.00**
2017	5	964	6176271	Summer Jam Basketball Camp - 2018	05Z	LMA	$515.21
2017	5	974	6176271	United Against Poverty - Public Service	05Z	LMC	$5,000.00
2017	5	975	6152397	Sword Outreach Mentoring & Resource Center - Public Service	05Z	LMC	$2,800.26
2017	5	975	6167379	Sword Outreach Mentoring & Resource Center - Public Service	05Z	LMC	$664.50
2017	5	977	6152397	Roundtable of St. Lucie County - Public Service	05Z	LMC	$644.50
2017	5	977	6176271	Roundtable of St. Lucie County - Public Service	05Z	LMC	$3,930.31
2017	5	978	6152397	WE LEAP, Inc. - Public Service	05Z	LMC	$1,055.23
2017	5	978	6176271	WE LEAP, Inc. - Public Service	05Z	LMC	$340.77
2017	5	979	6152397	Learn to Read St. Lucie - Public Service	05Z	LMC	$1,735.84
2017	5	979	6176271	Learn to Read St. Lucie - Public Service	05Z	LMC	$490.03
2017	5	980	6152397	St. Andrews Episcopal Academy - Public Service	05Z	LMC	$400.00
2017	5	980	6176271	St. Andrews Episcopal Academy - Public Service	05Z	LMC	$600.00

Plan Year	IDIS Project	IDIS Activity	Voucher Number	Activity Name	Matrix Code	National Objective	Drawn Amount
2017	5	981	6176271	St. Lucie County SO School Resource Unit - Public Service	05Z	LMC	$1,125.00
2017	5	982	6152397	Resurrection Life Community & Eco Dev Corp - Public Service	05Z	LMC	$600.00
2017	5	983	6152397	Golden Minds Learning Center - Public Service	05Z	LMC	$1,960.92
2017	5	984	6176271	Boys & Girls Clubs of SLC - Public Service	05Z	LMC	$1,321.11
2017	5	985	6176271	Fort Pierce Police Athletic League - PAL - Public Service	05Z	LMC	$2,113.51
2017	5	986	6152397	Northside Bat and Ball Little League - Public Service	05Z	LMC	$2,584.00
2017	5	986	6176271	Northside Bat and Ball Little League - Public Service	05Z	LMC	$2,189.03
2017	5	987	6176271	First Born Church of the Living God - Public Service	05Z	LMC	$814.99
					05Z	**Matrix Code**	**$30,885.21**
2016	9	945	6090071	Promotion of Local Art and Cultural Heritage	07	LMA	$1,628.10
2016	9	945	6109383	Promotion of Local Art and Cultural Heritage	07	LMA	$3,812.79
2016	9	945	6139019	Promotion of Local Art and Cultural Heritage	07	LMA	$8,230.76
2016	9	945	6152397	Promotion of Local Art and Cultural Heritage	07	LMA	$1,234.72
2016	9	945	6176271	Promotion of Local Art and Cultural Heritage	07	LMA	$825.09
2017	8	971	6109383	Community Based Development Organizations	07	LMA	$25,000.00
2017	8	971	6139019	Community Based Development Organizations	07	LMA	$25,000.00
2017	8	971	6152397	Community Based Development Organizations	07	LMA	$25,000.00
2017	8	971	6167379	Community Based Development Organizations	07	LMA	$25,000.00
					07	**Matrix Code**	**$115,731.46**
2016	11	961	6090071	Hurricane Irma - Disaster Relief	08	LMC	$1,234.02
2016	11	961	6109383	Hurricane Irma - Disaster Relief	08	LMC	$570.00
					08	**Matrix Code**	**$1,804.02**
2016	7	942	6090071	World Changers & Paint Our Town Programs	14A	LMH	$761.96
2016	7	942	6152397	World Changers & Paint Our Town Programs	14A	LMH	$587.50
2016	7	942	6167379	World Changers & Paint Our Town Programs	14A	LMH	$2,417.60
2016	7	942	6176271	World Changers & Paint Our Town Programs	14A	LMH	$3,660.74
2017	3	970	6152397	Weatherization for Owner Occupied Homes	14A	LMH	$20,000.00
					14A	**Matrix Code**	**$27,427.80**
2013	1	856	6109383	FPHA Senior Citizen Housing Assistance	14D	LMH	$1,284.00
					14D	**Matrix Code**	**$1,284.00**
2016	8	943	6109383	Commercial Facade Grants	14E	LMA	$1,690.00
2016	8	943	6139019	Commercial Facade Grants	14E	LMA	$3,475.00
2016	8	943	6152397	Commercial Facade Grants	14E	LMA	$7,937.50
2016	8	943	6176271	Commercial Facade Grants	14E	LMA	$1,673.50
					14E	**Matrix Code**	**$14,776.00**
2016	4	933	6090071	Education & Grants for Small Businesses	18A	LMJ	$9,154.40
2016	4	933	6109383	Education & Grants for Small Businesses	18A	LMJ	$9,766.36
2016	4	933	6167379	Education & Grants for Small Businesses	18A	LMJ	$1,393.96
					18A	**Matrix Code**	**$20,314.72**
2016	4	935	6109383	Job Fair	18B	LMJ	$2,761.28
2017	2	967	6109383	Job Fair	18B	LMJ	$443.72
2017	2	967	6139019	Job Fair	18B	LMJ	$4,911.30
2017	4	965	6176271	Marketing/Advertising for Small Businesses	18B	LMA	$3,483.45
2017	4	968	6176271	Minority Business Expo	18B	LMCSV	$395.00
					18B	**Matrix Code**	**$11,994.75**
2016	4	934	6090071	0Marketing/Advertising for Small Businesses	18C	LMCMC	$5,030.55
2016	4	934	6109383	0Marketing/Advertising for Small Businesses	18C	LMCMC	$5,337.18
2016	4	934	6139019	0Marketing/Advertising for Small Businesses	18C	LMCMC	$1,966.66
2016	4	934	6152397	0Marketing/Advertising for Small Businesses	18C	LMCMC	$511.60
2016	4	934	6167379	0Marketing/Advertising for Small Businesses	18C	LMCMC	$2,491.16
2016	4	934	6176271	0Marketing/Advertising for Small Businesses	18C	LMCMC	$4,712.98
					18C	**Matrix Code**	**$20,050.13**
Total							**$333,719.46**

LINE 27 DETAIL: ACTIVITIES INCLUDED IN THE COMPUTATION OF LINE 27

Plan Year	IDIS Project	IDIS Activity	Voucher Number	Activity Name	Matrix Code	National Objective	Drawn Amount
2015	3	913	6152397	Summer Jam Basketball Camp	05D	LMC	$282.20
2016	5	937	6152397	Summer Jam Basketball Camp - 2017	05D	LMC	$771.24
2016	5	937	6167379	Summer Jam Basketball Camp - 2017	05D	LMC	$2,556.41
2016	5	937	6176271	Summer Jam Basketball Camp - 2017	05D	LMC	$9,042.85
2016	5	947	6090071	Boys & Girls Clubs of SLC - PSA Grantee	05D	LMC	$2,877.15
2016	5	949	6090071	END It! Corporation - PSA Grantee	05D	LMC	$2,730.73
2016	5	950	6090071	Exec Roundtable of St. Lucie County - PSA Grantee	05D	LMC	$1,621.87
2016	5	950	6109383	Exec Roundtable of St. Lucie County - PSA Grantee	05D	LMC	$1,173.84
2016	5	951	6090071	In the Image of Christ - PSA Grantee	05D	LMC	$2,783.40
2016	5	952	6090071	Learn to Read St. Lucie - PSA Grantee	05D	LMC	$3,319.16
2016	5	953	6090071	Mount Bethel Human Services Corp - PSA Grantee	05D	LMC	$1,300.00
2016	5	954	6090071	Police Athletic League - PSA Grantee	05D	LMC	$4,000.00
2016	5	956	6139019	St. Lucie Education Foundation - PSA Grantee	05D	LMC	$3,034.79
2016	5	957	6090071	Sword Outreach Mentoring & Resource Center - PSA Grantee	05D	LMC	$205.15
2016	5	958	6090071	TC Youth Sailing Foundation - PSA Grantee	05D	LMC	$2,783.50
					05D	**Matrix Code**	**$38,482.29**
2016	5	955	6090071	Treasure Coast SCORE - PSA Grantee	05H	LMA	$2,052.26
					05H	**Matrix Code**	**$2,052.26**
2016	5	939	6139019	Homeless Shelter Services for Children	05N	LMC	$5,104.00
2016	5	959	6090071	United Against Poverty - PSA Grantee	05N	LMC	$100.00
2016	5	959	6109383	United Against Poverty - PSA Grantee	05N	LMC	$3,900.00
2016	5	959	6167379	United Against Poverty - PSA Grantee	05N	LMC	$1,000.00
					05N	**Matrix Code**	**$10,104.00**
2017	5	964	6176271	Summer Jam Basketball Camp - 2018	05Z	LMA	$515.21
2017	5	974	6176271	United Against Poverty - Public Service	05Z	LMC	$5,000.00
2017	5	975	6152397	Sword Outreach Mentoring & Resource Center - Public Service	05Z	LMC	$2,800.26
2017	5	975	6167379	Sword Outreach Mentoring & Resource Center - Public Service	05Z	LMC	$664.50
2017	5	977	6152397	Roundtable of St. Lucie County - Public Service	05Z	LMC	$644.50
2017	5	977	6176271	Roundtable of St. Lucie County - Public Service	05Z	LMC	$3,930.31
2017	5	978	6152397	WE LEAP, Inc. - Public Service	05Z	LMC	$1,055.23
2017	5	978	6176271	WE LEAP, Inc. - Public Service	05Z	LMC	$340.77
2017	5	979	6152397	Learn to Read St. Lucie - Public Service	05Z	LMC	$1,735.84
2017	5	979	6176271	Learn to Read St. Lucie - Public Service	05Z	LMC	$490.03
2017	5	980	6152397	St. Andrews Episcopal Academy - Public Service	05Z	LMC	$400.00
2017	5	980	6176271	St. Andrews Episcopal Academy - Public Service	05Z	LMC	$600.00
2017	5	981	6176271	St. Lucie County SO School Resource Unit - Public Service	05Z	LMC	$1,125.00
2017	5	982	6152397	Resurrection Life Community & Eco Dev Corp - Public Service	05Z	LMC	$600.00
2017	5	983	6152397	Golden Minds Learning Center - Public Service	05Z	LMC	$1,960.92
2017	5	984	6176271	Boys & Girls Clubs of SLC - Public Service	05Z	LMC	$1,321.11
2017	5	985	6176271	Fort Pierce Police Athletic League - PAL - Public Service	05Z	LMC	$2,113.51
2017	5	986	6152397	Northside Bat and Ball Little League - Public Service	05Z	LMC	$2,584.00
2017	5	986	6176271	Northside Bat and Ball Little League - Public Service	05Z	LMC	$2,189.03
2017	5	987	6176271	First Born Church of the Living God - Public Service	05Z	LMC	$814.99
					05Z	**Matrix Code**	**$30,885.21**
Total							**$81,523.76**

LINE 37 DETAIL: ACTIVITIES INCLUDED IN THE COMPUTATION OF LINE 37

Plan Year	IDIS Project	IDIS Activity	Voucher Number	Activity Name	Matrix Code	National Objective	Drawn Amount
2016	10	946	6090071	Grant Administration	21A		$656.33

Plan Year	IDIS Project	IDIS Activity	Voucher Number	Activity Name	Matrix Code	National Objective	Drawn Amount
2016	10	946	6109383	Grant Administration	21A		$46,147.30
2016	10	946	6139019	Grant Administration	21A		$9,230.25
2017	1	962	6139019	Grant Administration	21A		$14,346.34
2017	1	962	6152397	Grant Administration	21A		$4,851.97
2017	1	962	6167379	Grant Administration	21A		$9,881.64
2017	1	962	6176271	Grant Administration	21A		$14,630.86
					21A	**Matrix Code**	**$99,744.69**
Total							**$99,744.69**

PR-23 Report

U.S. Department of Housing and Urban Development
Office of Community Planning and Development
Integrated Disbursement and Information System
CDBG Summary of Accomplishments
Program Year: 2017

DATE: 11-21-18
TIME: 10:30
PAGE: 1

FORT PIERCE

Count of CDBG Activities with Disbursements by Activity Group & Matrix Code

Activity Group	Activity Category	Open Count	Open Activities Disbursed	Completed Count	Completed Activities Disbursed	Program Year Count	Total Activities Disbursed
Acquisition	Relocation (08)	0	$0.00	1	$1,804.02	1	$1,804.02
	Total Acquisition	**0**	**$0.00**	**1**	**$1,804.02**	**1**	**$1,804.02**
Economic Development	Rehab; Publicly or Privately-Owned Commercial/Industrial (14E)	1	$14,776.00	0	$0.00	1	$14,776.00
	ED Direct Financial Assistance to For-Profits (18A)	1	$20,314.72	0	$0.00	1	$20,314.72
	ED Technical Assistance (18B)	4	$9,233.47	2	$2,761.28	6	$11,994.75
	Micro-Enterprise Assistance (18C)	0	$0.00	1	$20,050.13	1	$20,050.13
	Total Economic Development	**6**	**$44,324.19**	**3**	**$22,811.41**	**9**	**$67,135.60**
Housing	Rehab; Single-Unit Residential (14A)	1	$0.00	2	$27,427.80	3	$27,427.80
	Rehab; Other Publicly-Owned Residential Buildings (14D)	1	$1,284.00	0	$0.00	1	$1,284.00
	Total Housing	**2**	**$1,284.00**	**2**	**$27,427.80**	**4**	**$28,711.80**
Public Facilities and Improvements	Neighborhood Facilities (03E)	0	$0.00	1	$15,970.00	1	$15,970.00
	Parks, Recreational Facilities (03F)	2	$3,412.62	0	$0.00	2	$3,412.62
	Street Improvements (03K)	1	$19,430.20	0	$0.00	1	$19,430.20
	Non-Residential Historic Preservation (16B)	1	$0.00	0	$0.00	1	$0.00
	Total Public Facilities and Improvements	**4**	**$22,842.82**	**1**	**$15,970.00**	**5**	**$38,812.82**
Public Services	Youth Services (05D)	0	$0.00	12	$38,482.29	12	$38,482.29
	Employment Training (05H)	0	$0.00	1	$2,052.26	1	$2,052.26
	Abused and Neglected Children (05N)	1	$5,104.00	1	$5,000.00	2	$10,104.00
	Other Public Services Not Listed in 05A-05Y, 03T (05Z)	11	$15,537.37	4	$15,347.84	15	$30,885.21
	Total Public Services	**12**	**$20,641.37**	**18**	**$60,882.39**	**30**	**$81,523.76**
General Administration and Planning	General Program Administration (21A)	1	$43,710.81	1	$56,033.88	2	$99,744.69
	Total General Administration and Planning	**1**	**$43,710.81**	**1**	**$56,033.88**	**2**	**$99,744.69**
Other	Urban Renewal Completion (07)	1	$0.00	2	$115,731.46	3	$115,731.46
	Total Other	**1**	**$0.00**	**2**	**$115,731.46**	**3**	**$115,731.46**
Grand Total		**26**	**$132,803.19**	**28**	**$300,660.96**	**54**	**$433,464.15**

FORT PIERCE

CDBG Sum of Actual Accomplishments by Activity Group and Accomplishment Type

Activity Group	Matrix Code	Accomplishment Type	Open Count	Completed Count	Program Year Totals
Acquisition	Relocation (08)	Persons	0	108	108
	Total Acquisition		**0**	**108**	**108**
Economic Development	Rehab; Publicly or Privately-Owned Commercial/Industrial (14E)	Business	60,345	0	60,345
	ED Direct Financial Assistance to For-Profits (18A)	Jobs	90	0	90
	ED Technical Assistance (18B)	Business	60,425	22	60,447
		Jobs	30	250	280
	Micro-Enterprise Assistance (18C)	Business	0	60	60
	Total Economic Development		**120,890**	**332**	**121,222**
Housing	Rehab; Single-Unit Residential (14A)	Housing Units	1	30	31
	Rehab; Other Publicly-Owned Residential Buildings (14D)	Housing Units	0	0	0
	Total Housing		**1**	**30**	**31**
Public Facilities and Improvements	Neighborhood Facilities (03E)	Public Facilities	0	60,345	60,345
	Parks, Recreational Facilities (03F)	Public Facilities	120,690	0	120,690
	Street Improvements (03K)	Persons	60,345	0	60,345
	Non-Residential Historic Preservation (16B)	Business	0	0	0
	Total Public Facilities and Improvements		**181,035**	**60,345**	**241,380**
Public Services	Youth Services (05D)	Persons	0	2,228	2,228
	Employment Training (05H)	Persons	0	60,345	60,345
	Abused and Neglected Children (05N)	Persons	17	125	142
	Other Public Services Not Listed in 05A-05Y, 03T (05Z)	Persons	62,115	252	62,367
	Total Public Services		**62,132**	**62,950**	**125,082**
Other	Urban Renewal Completion (07)	Public Facilities	0	60,345	60,345
		Business	60,345	60,345	120,690
	Total Other		**60,345**	**120,690**	**181,035**
Grand Total			**424,403**	**244,455**	**668,858**

FORT PIERCE

CDBG Beneficiaries by Racial / Ethnic Category

Housing-Non Housing	Race	Total Persons	Total Hispanic Persons	Total Households	Total Hispanic Households
Housing	Black/African American	0	0	31	0
	Total Housing	**0**	**0**	**31**	**0**
Non Housing	White	857	30	0	0
	Black/African American	4,087	388	0	0
	Asian	20	0	0	0
	Other multi-racial	46	0	0	0
	Total Non Housing	**5,010**	**418**	**0**	**0**
Grand Total	White	857	30	0	0
	Black/African American	4,087	388	31	0
	Asian	20	0	0	0
	Other multi-racial	46	0	0	0
	Total Grand Total	**5,010**	**418**	**31**	**0**

FORT PIERCE

CDBG Beneficiaries by Income Category

	Income Levels	Owner Occupied	Renter Occupied	Persons
Housing	Extremely Low (<=30%)	8	0	0
	Low (>30% and <=50%)	0	0	0
	Mod (>50% and <=80%)	0	0	0
	Total Low-Mod	8	0	0
	Non Low-Mod (>80%)	0	0	0
	Total Beneficiaries	8	0	0
Non Housing	Extremely Low (<=30%)	0	0	2,022
	Low (>30% and <=50%)	0	0	80
	Mod (>50% and <=80%)	0	0	0
	Total Low-Mod	0	0	2,102
	Non Low-Mod (>80%)	0	0	0
	Total Beneficiaries	0	0	2,102

City Commission Regular Meeting **12.b.**

Meeting Date: 12/17/2018

Re: Ordinance No. 18-042; Amendment to the City of Fort Pierce Pension Plan

Submitted For: Karen Logue, Chief Accountant, Finance Department

SUBJECT:

Legislative Hearing - Ordinance 18-042 Amending Chapter 13; Changing the Retirement vesting period from 10 years to 5 years for the Fort Pierce Utilities Authority, correcting Scrivener's error in Ordinance 18-037, adopted by Commission November 5, 2018. SECOND READING

SUMMARY:

The amendment of Chapter 13 of the Code to change the vesting years of service for Fort Pierce Utilities Authority employees from 10 years to 5 years; to include employees hired on or after October 1, 2012.

RECOMMENDATION:

Adopt Ordinance No. 18-042, amending Chapter 13 of the Code.

ALTERNATIVES:

Deny the amendment

RESPONSIBLE STAFF:

Finance Director

COORDINATED WITH:

City of Fort Pierce Retirement Board
City Clerk for Advertising

Fiscal Impact

Budgeted Y/N: N

Fiscal Year: 2018

OTHER INFORMATION:

N/A

Attachments

Ordinance No. 18-042
Proof of Publication

Form Review

Inbox	Reviewed By	Date

Finance Department	Karen Logue	11/26/2018 10:22 AM
City Manager	Nick Mimms	11/27/2018 02:51 PM
Form Started By: Queen Thompkins		Started On: 11/19/2018 01:17 PM
Final Approval Date: 12/04/2018		

ORDINANCE NO. 18-042

AN ORDINANCE BY THE CITY COMMISSION OF THE CITY OF FORT PIERCE, FLORIDA AMENDING **CODE SECTION 13-40**; DECREASING CREDIT SERVICE REQUIREMENT FOR UTILITIES AUTHORITY COVERAGE PLAN; PROVIDING FOR A SEVERABILITY CLAUSE; REPEALING ALL ORDINANCES OR PARTS OF ORDINANCES IN CONFLICT HEREWITH; PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS on September 16, 2013, there was adopted Ordinance L-298 which ordinance among other things increased service credit requirements for pension eligibility of general employees of the City, police officers and employees of the Utility Authority, from five years to ten (10) years; and

WHEREAS, on November 5, 2018, the City Commission adopted Ordinance 18-037 restoring the original credit service requirement of five (5) years retroactively so as to eliminate the ten (10) year eligibility requirement; and

WHEREAS, Ordinance 18-037 inadvertently failed to include the change to Section 13-40 adjusting the vesting period thus requiring a corrective ordinance.

NOW THEREFORE BE IT ORDAINED by the City Commission of the City of Fort Pierce, as follows:

SECTION 1. Section 13-40 of the Code of Ordinances is hereby amended so that the same shall read hereinafter as follows:

Sec. 13-40. - Utilities authority coverage plan; applicability; credited service and/or age and credited service requirements for normal retirement; amount of normal retirement annuity; member contribution rate.

(a) The utilities authority coverage plan is applicable to all members employed by the Ft. Pierce Utilities Authority.

(b) The credited service and/or age and credited service requirement for normal retirement are:
   (1) Twenty-five (25) or more years of credited service; or
   (2) Age sixty (60) years or older and five (5) or more years of credited service~~, or no fewer than ten (10) years if the individual became a member on or after October 1, 2012~~.

(c) The amount of a normal retirement annuity under the standard form of payment is three (3) percent of final average compensation times credited service, subject to the applicable maximums set forth in sections 13-31 and 13-64

(d) The member contribution rate is six and sixteen-one-hundredths (6.16) per cent of compensation.

(e) The credited service requirement for vested termination of membership is five (5) years. A vested former member may make application for benefit commencement on or after attainment of age sixty (60) years.

SECTION 2. In the event a court of competent jurisdiction should determine hereafter that any part of this ordinance is invalid, for any reason, then, in such event, the invalid portion shall be severed, with the remainder of such ordinance to be given full force and effect.

SECTION 3. All ordinances or parts of ordinances in conflict herewith are and the same shall be repealed and shall be of no further force or effect whatsoever.

SECTION 4. This ordinance is and the same shall become effective retroactively to September 16, 2013, upon final passage hereof.

APPROVED AS TO FORM
& CORRECTNESS:

_____
Ben Bryan Jr., Esq.
Interim City Attorney

STATE OF FLORIDA
COUNTY OF ST. LUCIE

WE, THE UNDERSIGNED, Mayor Commissioner and the City Clerk of the City of Fort Pierce, Florida, do hereby certify that the foregoing and above Ordinance No. 18-042 was duly advertised by title only in the St. Lucie News Tribune on _____, 2018; copy of said Ordinance was made available at the office of the City Clerk to the public upon request; said Ordinance was duly introduced, read by title only, and passed on first reading by the City Commission of the City of Fort Pierce, Florida, on December 3, 2018 and was duly introduced, read by title only, and passed on second and final reading December 17, 2018, by the City Commission of the City of Fort Pierce, Florida.

IN WITNESS HEREWITH, we hereunto set our hands and affix the Official Seal of the City of Fort Pierce, Florida, this 17th day of December, 2018.

_____
Linda Hudson
Mayor Commissioner

ATTEST:

_____
Linda W. Cox
City Clerk

(CITY SEAL)

Treasure Coast Newspapers | TCPALM

St. Lucie News-Tribune
1939 SE Federal Highway, Stuart, FL 34994

AFFIDAVIT OF PUBLICATION

STATE OF FLORIDA
COUNTY OF ST. LUCIE

Before the undersigned authority personally appeared, Natalie Zollar, who on oath says that she is Classified Inside Sales Manager of the St. Lucie News-Tribune, a daily newspaper published at Fort Pierce in St. Lucie County, Florida: that the attached copy of advertisement was published in the St. Lucie News-Tribune in the following issues below. Affiant further says that the said St Lucie News-Tribune is a newspaper published in Fort Pierce, in said St. Lucie County, Florida, and that said newspaper has heretofore been continuously published in said St. Lucie County, Florida, daily and distributed in St. Lucie County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid or promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper. The St. Lucie News-Tribune has been entered as Periodical Matter at the Post Offices in Fort Pierce, St. Lucie County, Florida and has been for a period of one year next preceding the first publication of the attached copy of advertisement.

Customer	Ad Number	Copyline	PO #
463454 - CITY OF FORT PIERCE (LEGALS)	2164282	CITY OF FORT PIERCE NOTICE OF PUBLIC	18-042

Pub Dates
November 21, 2018

Sworn to and subscribed before me this day of, November 21, 2018, by

Natalie Zollar, who is
Natalie Zollar
(X) personally known to me or
( ) who has produced _____ as identification.

Karol E Kangas
Karol Kangas **Notary Public**

KAROL E KANGAS
Notary Public - State of Florida
Commission # GG 126041
My Comm. Expires Jul 29, 2021
Bonded through National Notary Assn.

CITY OF FORT PIERCE
NOTICE OF PUBLIC HEARING

The City Commission of the City of Fort Pierce, Florida, pursuant to City Charter and Florida Statute 166.041, will hold Public Hearings, on Monday, December 3, 2018 and Monday, December 17, 2018 on first and second readings, respectively in the City Hall Commission Chambers, 100 North U.S. #1, Fort Pierce, Florida, at their meeting which begins at 6:30 p.m., to consider review and approval of the following:

ORDINANCE NO. 18-042 - AN ORDINANCE BY THE CITY COMMISSION OF THE CITY OF FORT PIERCE, FLORIDA AMENDING CODE SECTION 13-40; DECREASING CREDIT SERVICE REQUIREMENT FOR UTILITIES AUTHORITY COVERAGE PLAN; PROVIDING FOR A SEVERABILITY CLAUSE; REPEALING ALL ORDINANCES OR PARTS OF ORDINANCES IN CONFLICT HEREWITH; PROVIDING FOR AN EFFECTIVE DATE.

All interested parties may appear at the meeting and be heard with respect to the Amendment of the Code of Ordinances. Said Ordinance will be available for inspection in the City Clerk's Office, City Hall, 100 North U.S. #1, Fort Pierce, Florida.

ANY PERSON SEEKING TO APPEAL THE DECISION OF THE CITY COMMISSION AS TO THE FOREGOING IS ADVISED THAT A RECORD OF PROCEEDINGS IS REQUIRED IN ANY SUCH APPEAL AND THAT SUCH PERSON MAY NEED TO INSURE THAT A VERBATIM RECORD OF PROCEEDINGS IS MADE INCLUDING THE TESTIMONY AND EVIDENCE UPON WHICH THE APPEAL IS TO BE BASED.

In accordance with the Americans with Disabilities Act and Section 286.26, Florida Statutes, persons with disabilities needing special accommodation to participate in this meeting should contact the City Clerk's Office at (772) 467-3065 at least 48 hours prior to the meeting.

/s/ Linda W. Cox, City Clerk
Publish: 11/21/2018
Tcn 2164282

City Commission Regular Meeting **12.c.**

Meeting Date: 12/17/2018

Re: Donald Noble to operate a food truck (Fork It Over) at 1907 Avenue D, Fort Pierce

Submitted For: Linda Cox, City Clerk, City Clerk

SUBJECT:

Quasi-Judicial Hearing - Application submitted by Donald Noble to operate a food truck ("Fork It Over") at 1907 Avenue D, Fort Pierce. Said use requires a Waiver of Distance, Sec. 9-111(b)(1) and (2) to operate within 500 feet from a similar type of business and 300 feet from a church.

SUMMARY:

Mr. Noble has been operating a food truck at this location for the past two years. He would like to continue operating at this location but requires a waiver of distance pursuant to Sec. 9-111(b)(1) and (2) to operate within 500 feet from a similar type of business and 300 feet from a church.

RECOMMENDATION:

Staff recommends that the City Commission conduct a public hearing and approve the applicant's request for the food truck as proposed.

ALTERNATIVES:

Not approve.

RESPONSIBLE STAFF:

Miriam Garcia, Deputy City Clerk

COORDINATED WITH:

Linda Cox, City Clerk

Fiscal Impact

OTHER INFORMATION:

No fiscal impact.

Attachments

Vendor Application Packet

Staff Report

Form Review

Inbox	Reviewed By	Date
City Manager	Nick Mimms	12/12/2018 11:46 AM

Form Started By: Miriam Garcia Started On: 12/05/2018 04:04 PM

Final Approval Date: 12/12/2018

CITY OF FORT PIERCE

OFFICE OF THE CITY CLERK
100 N. US HWY 1
FORT PIERCE, FL 34950
772-467-3065

APPLICATION FOR VENDORS, SOLICITORS AND CANVASSERS
CHAPTER 9, ARTICLE IV

Name of Applicant	Fork it Over / Donald Noble		
Home Address	1707 N 37th St	Ft Pierce, FL 34947	
Primary Telephone #	(772) 216-2783	Alt. Telephone #	(772) 801-3710
E-mail Address	noble.donald@yahoo.com		

Name of Business	Fork it Over
Business Address (if different from above)	1907 Avenue D
Nature of business and type of food or goods to be sold	BBQ Food

Vending site address	1907 Avenue D
Name of property owner	Candace Brown Geohagan

Food Service Vendor Checklist:			
Current license from the State of Florida	(Yes)	No	N/A
Copy of vehicle plans as submitted to the State	(Yes)	No	N/A
Copy of notarized commissary agreement	(Yes)	No	N/A

Mobile Merchant Sales Checklist:			
Copy of vehicle plans	Yes	No	N/A

Door-to-Door Sales / Canvassers Checklist:			
Name, address and telephone number of employer			
Copy of credentials confirming employment	Yes	No	N/A
Length of time requested for permit (insert dates)			

Required Attachments – For all application types:			
Photo of applicant	(Yes)	No	N/A
Photos of vending unit (all sides)	(Yes)	No	N/A
Criminal history affidavit	(Yes)	No	N/A
Liability insurance	Yes	No	N/A
Auto liability insurance	Yes	No	N/A
Site plan (for private property)	(Yes)	No	N/A
Notarized approval from property owner	(Yes)	No	N/A

Donald Noble — 10/31/16
Signature of Applicant — Date

PAYMENT RECEIVED: ____ Application fee ____ Plan Review Fee ____ Annual Permit Receipt #: _____

APPROVED AS SUBMITTED:

City Clerk's Office — Date

DENIED AS SUBMITTED: (state reason for denial)

City Clerk's Office — Date

CITY OF FORT PIERCE

OFFICE OF THE CITY CLERK
100 N. US HWY 1
FORT PIERCE, FL 34950
772-467-3000

VARIANCE REQUEST FOR WAIVER OF DISTANCE

Property Address	1907 Avenue D
Parcel ID #(s)	2409-602-0230-000-0
Type of Vending Proposed	FOOD MOBILE VENDING

Property Owner(s)	Applicant
CANDANCE GOHAGEN Braun	DONALD NOBLE
Mailing Address: 8650 Shadylake Lane Ft. Pierce	Mailing Address: 1707 N 37TH ST FT PIERCE, FL
Phone #: (772) 359-8470	Phone #: 772-216-2783
E-mail Address: candy8650@aol.com	E-mail Address: noble.donald23@yahoo.com

Property Owner(s) Acknowledgements: - This application will not be considered complete without the signature of property owners of record, which shall serve as an acknowledgement of the submission of this application. The property owner's signature below shall also authorized the Applicant (if other than the property owner) to act in his/her behalf for the purpose of seeking approval for the application described herein.

Candance Braun — *Property Owner's Signature*

8/9/2016 — *Date*

STATE OF FLORIDA - ST LUCIE COUNTY

The foregoing instrument was acknowledged before me this 9th day of August, 2016, by Candace Braun who is personally known to me or has produced FLDL as identification.

Signature of Notary

REBEKAH HOY
Notary Public - State of Florida
Commission # FF 185918
My Comm. Expires Feb 17, 2019

In accordance with Ordinance No. 9-97, any person who wishes to obtain a mobile vending permit that does not comply with Sec. 9-111(b) of this article must petition the city commission for a variance. The applicant is requesting a variance from the following:

- ☑ 9-111(b)(1) – 500 feet from a similar type business
- ☑ 9-111(b)(2) – 300 feet from a school, church, or park
- ☐ 9-111(b)(1) – 1000 feet from an approved special event

Submit the following attachments:

- ✓ Site plan, to scale, showing all existing structures or significant features and proposed vending location.
- ✓ Map showing surrounding properties, which identifies the location of existing business or entity impacted by the variance.
- ✓ Photos or detailed description of proposed vending unit and type of service provided.
- ✓ $250 variance request fee.

Supporting Narrative:

THIS BUSINESS IN INTENDED TO HELP REVITALIZE A STAGNANT AND DISERATING BUSINESS DISTRICT. BUSINESSES AND STUCTURES ARE ALMOST DISTITUTE AND NO BUSINGESSES IN THE AREA SEEM TO BE THRIVING. THIS STURUCTURE HAS BEEN STAGNANT FOR OVER 10 years. I FEEL I HAVE A VIABLE BUSINESS THAT CAN STIMULATE THE AREA TO SUPPORT OTHER BUSINESSES IN THE AREA.

Donald Noble — *Applicant Signature*

10/31/16 — *Date*

CITY OF FORT PIERCE

OFFICE OF THE CITY CLERK
100 N. US HWY 1
FORT PIERCE, FL 34950
772-467-3065

CRIMINAL HISTORY AFFIDAVIT

Name of Business	Fork it Over
Name of Applicant	Donald Noble
Vending location address	1907 Avenue D

Have you ever been convicted of any crime, misdemeanor or felony? _____

If yes, please answer all of the following:

What was the nature of the offense?

Possession of marijuana

When did the offense occur?

2011

What was the punishment or penalty assessed?

6 mos in Jail

Is the punishment or penalty still in effect?

NO

Signature of Applicant

STATE OF FLORIDA
ST. LUCIE COUNTY

Before me, the subscriber, personally appeared Donald Noble who being duly sworn, deposes and says that the above statement is true and correct without any deduction for or on account of any indebtedness or liability of any nature whatsoever.

Sworn and subscribed before me, this 31 day of October, 2016.

Notary Public

MIRIAM NAJERA GARCIA
NOTARY PUBLIC
STATE OF FLORIDA
Comm# FF915836
Expires 10/23/2019

Rev 4/16

June 15, 2016

To the City of Fort Pierce, Florida and St. Lucie County,

I Candance Brown Geohagan give permission to Fork It Over, Inc. food truck to access and use property at 1907 Ave. D Fort Pierce, Florida and its adjacent lots.

Candance Geohagan

Candance Brown Geohagan

Anthony J. Danielson 6/15/16

ANTHONY J. DANIELSON
Notary Public - State of Florida
My Comm. Expires Jun 13, 2017
Commission # FF 027230

June 16, 2016

RJK Internation l.L.C.

5151 Okeechobee rd.

Fort Pierce, Fl 34947

(772)595-5707

To Whom It May Concern:

RJK International LLC herby gives permission, until further notice, to "Fork It Over Inc." to use of its facilities for the purpose of commissary.

Thank you,

Anthony Kirkpatrick

Owner

Subscribed and sworn before me. this 17th day of June, 2016 a Notary Public in and for St. Lucie County County. State of Florida

(Signature)

NOTARY PUBLIC

My Commission expires _____

NOTARY PUBLIC STATE OF FLORIDA

SARAH C BAKER

MY COMMISSION #FF185759

EXPIRES December 28, 2018

(407) 398-0153 FloridaNotaryService.com

Data Contained In Search Results Is Current As Of 12/06/2018 09:59 AM.

Search Results

Please see our glossary of terms for an explanation of the license status shown in these search results.

For additional information, including any complaints or discipline, click on the name.

License Type	Name	Name Type	License Number/ Rank	Status/Expires
Mobile Food Dispensing Vehicle	**FORK IT OVER**	DBA	MFD6650334 Mobile MFDV	Current, Active 04/01/2019
	License Location Address*:	5151 OKEECHOBEE RD FORT PIERCE, FL 34947		
	Main Address*:	1707 N 37TH ST FORT PIERCE, FL 34947		
	Mailing Address*:	1707 N 37TH ST FORT PIERCE, FL 34947		
Mobile Food Dispensing Vehicle	**FORK IT OVER INC**	Primary	MFD6650334 Mobile MFDV	Current, Active 04/01/2019
	License Location Address*:	5151 OKEECHOBEE RD FORT PIERCE, FL 34947		
	Main Address*:	1707 N 37TH ST FORT PIERCE, FL 34947		
	Mailing Address*:	1707 N 37TH ST FORT PIERCE, FL 34947		

Back New Search

*** denotes**

Main Address - This address is the Primary Address on file.

Mailing Address - This is the address where the mail associated with a particular license will be sent (if different from the Main or License Location addresses).

License Location Address - This is the address where the place of business is physically located.

The State of Florida is an AA/EEO employer. Copyright 2007-2010 State of Florida. Privacy Statement

Under Florida law, email addresses are public records. If you do not want your email address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public.

Description of a Mobile Food Dispensing Unit

Any food service establishment that is self propelled or otherwise moveable from place to place, that is self contained and does not use electrical or other utility connections of any kind, in which food is prepared and/or dispensed, and that complies with all applicable requirements set forth by the Florida Department of Business Regulations, division of Hotels and Restaurants, or its successor agency, including but not limited to those regulations set forth in Rule 7C-1.03, Florida Administrative Code.

Property Owner Information:

Name: Candance Braun Geohagan **Phone No:** (772)359-8470

Address: 8650 Shadylake Lane

City: Fort Pierce **State:** FL **Zip Code:** 34947

Date: 6/14/16

I, Candance Braun Geohagan **, owner of the following described property, authorize** Fork It Over Inc **to place a mobile food/produce unit on my property.**

Property Tax Identification #: 2409-602-0230-000010

Legal Description: 1907 Ave D

Candance Braun Geohagan — C Geohagan

Property Owner's Name (Please Print) **Property Owner's Signature**

State of Florida, County of St. Lucie

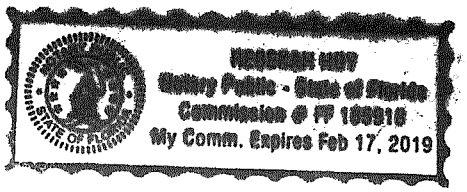
The foregoing instrument was acknowledged before me this 14th **day of** June **20**16

who is personally known to me ____ **or who has produced** US Passport Card **as identification.**

Signature of Notary — Type or print Name of Notary (Seal)

Title: Notary Public **Commission Number:** FF 185918

SLCPDS Revised 07/21/2014




FORK IT OVER INC.
772-882-1647

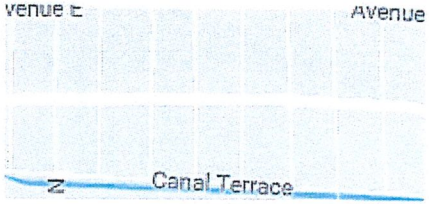
Google Maps 1930 Ave D



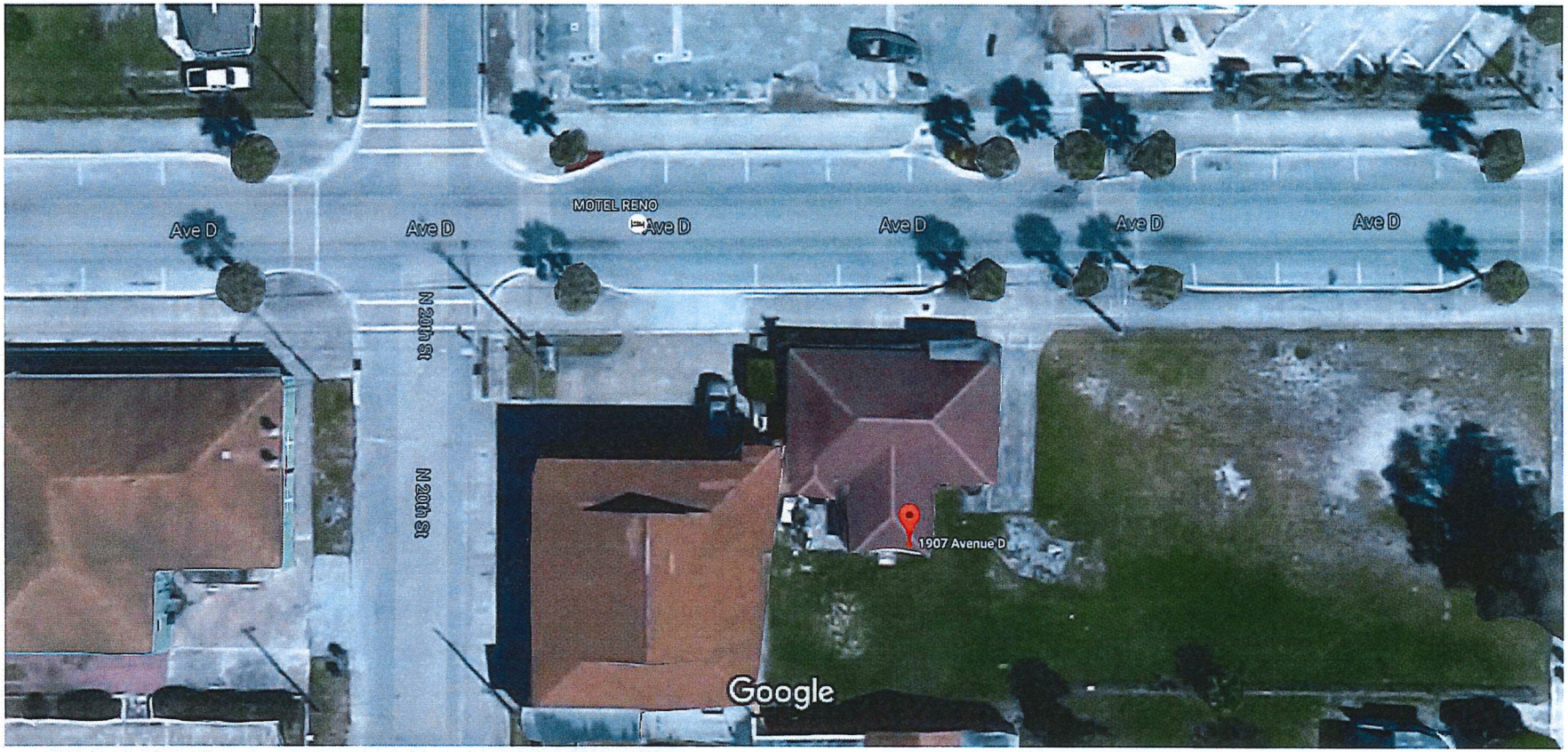
Image capture: May 2015 © 2016 Google

Fort Pierce, Florida

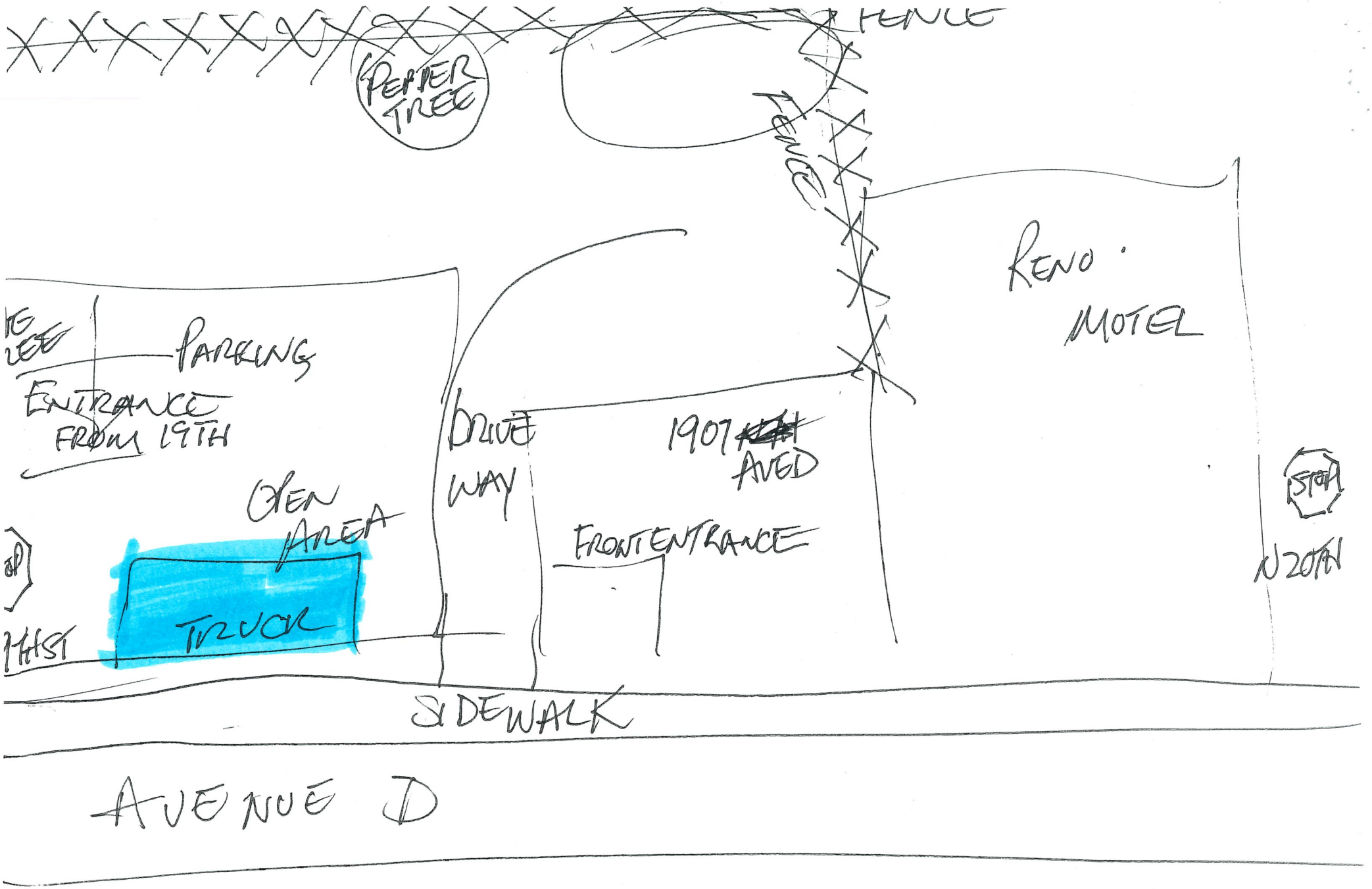
Street View - May 2015



Google Maps 1907 Ave D



Imagery ©2016 Google, Map data ©2016 Google 20 ft


FENCE
PEPPER TREE
Fence
RENO
MOTEL
PARKING
ENTRANCE FROM 19TH
DRIVE WAY
1907 AVED
OPEN AREA
TRUCK
FRONT ENTRANCE
STOP
N 20TH
SIDEWALK
AVENUE D

Description of a Mobile Food Dispensing Unit

Any food service establishment that is self propelled or otherwise moveable from place to place, that is self contained and does not use electrical or other utility connections of any kind, in which food is prepared and/or dispensed, and that complies with all applicable requirements set forth by the Florida Department of Business Regulations, division of Hotels and Restaurants, or its successor agency, including but not limited to those regulations set forth in Rule 7C-1.03, Florida Administrative Code.

Property Owner Information:

Name: Candance Braun Geohagan **Phone No:** (772)359-8470

Address: 8650 Shadylake Lane

City: Fort Pierce **State:** FL **Zip Code:** 34947

Date: 6/14/16

I, Candance Braun Geohagan, **owner of the following described property, authorize** Fork It Over Inc **to place a mobile food/produce unit on my property.**

Property Tax Identification #: 2409-602-0230-000010

Legal Description: 1907 Ave D

Candance Braun Geohagan
Property Owner's Name (Please Print)

C Geohagan
Property Owner's Signature

State of Florida, County of St. Lucie

The foregoing instrument was acknowledged before me this 14th **day of** June **20**16
who is personally known to me ____ **or who has produced** US Passport Card
as identification.

Signature of Notary

Type or print Name of Notary **(Seal)**

Title: Notary Public

Commission Number: FF 185918

SLCPDS Revised 07/21/2014

[illegible] Notary Public - State of Florida
Commission # FF 185918
My Comm. Expires Feb 17, 2019

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

TO: Nicholas Mimms, PE, City Manager
Honorable Mayor and City Commission

THROUGH: Linda Cox, City Clerk

FROM: Miriam Garcia, Deputy City Clerk

RE: Application for Waiver of Distance– Mobile Food Vendor
Fork It Over
1907 Avenue D

DATE: December 10, 2018

STAFF REPORT

Staff Analysis:

On September 15, 2014, the City Commission approved Ordinance 14-019 establishing regulations for lunch trucks, hot dog carts, ice cream and other forms of mobile food establishments identified in Chapter 9 of the Code of Ordinances. Section 9-111 (b) of the Code of Ordinances requires that mobile food establishments must be at least 500 feet from a similar type of business; at least 300 feet from a school, church, or any city or county park; and 1000 feet from any approved special event.

The proposed vending location is within 500 feet of the following similar type of businesses: "Bo's Crab Spot" and within 300 feet of two churches: "Miracle Prayer Temple" and "Triumph Church and Kingdom of God".

Therefore, City Staff cannot issue a vendor permit unless City Commission grants a waiver to the distance requirements of Section 9-111.

The applicant is requesting the waiver based upon the presence of one (1) similar types of business that is located within 500 feet of the proposed site.

Similar to a waiver of distance for alcoholic beverage licenses, the Mobile Vendor ordinance provides for the City Commission to consider granting a waiver to the ordinance and issue of the vendor permit through the public hearing process.

The proposed site meets all other distance requirements of the ordinances (300 feet from a school or city/county park and 1000 feet from an approved special event).

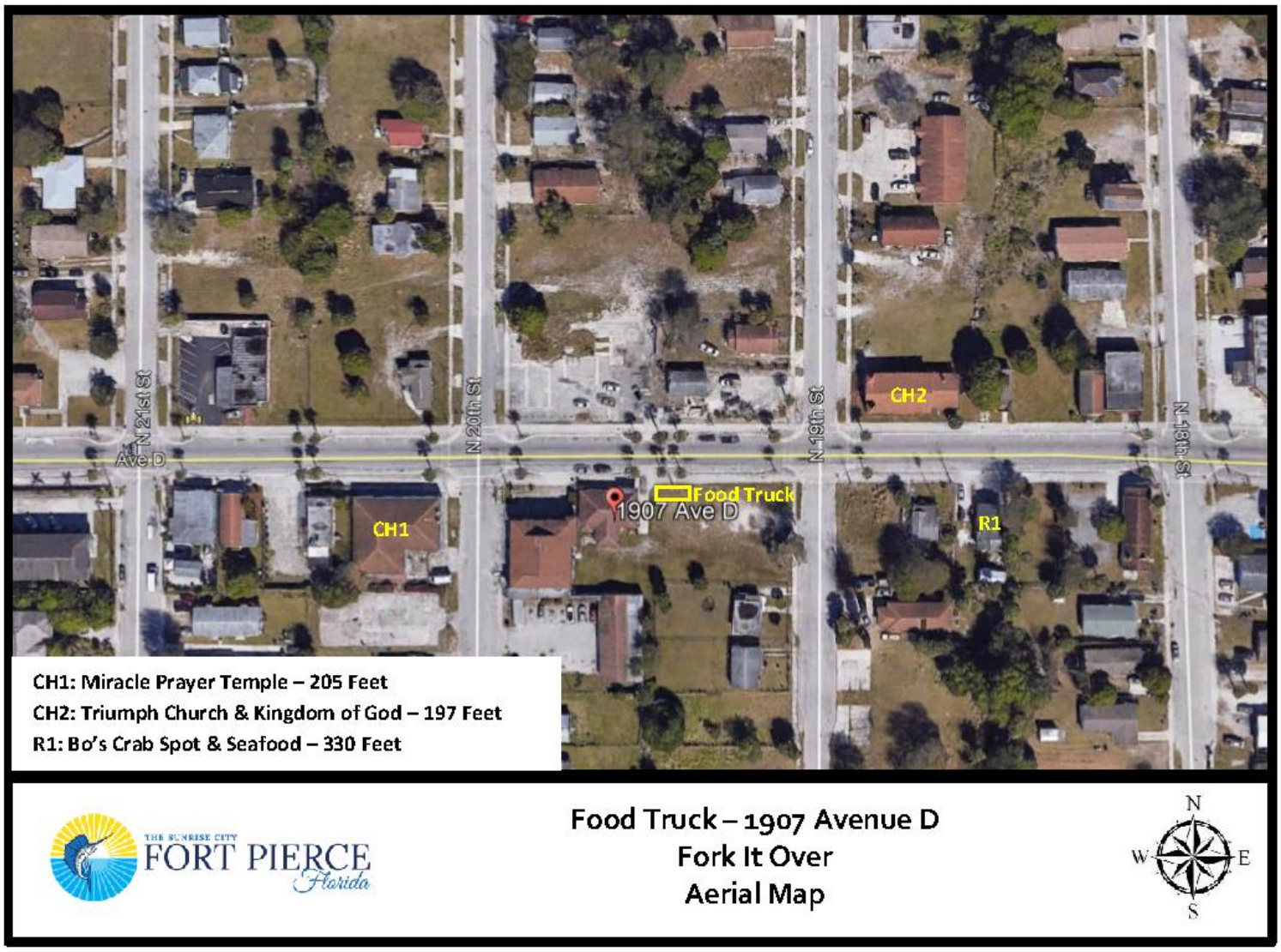
The proposed site is located in the C-3, General Commercial Zoning District and has a Future Land Use Designation of GC, General Commercial. Therefore the site meets the commercial zoning location requirement of Section 9-76.

We mailed 87 notices to property owners and businesses within 500 feet of the proposed location.

Staff Recommendation:

Staff recommends that the City Commission conduct a public hearing and approve the applicant's request for the food truck as proposed.

Exhibit A –



City Commission Regular Meeting **12.d.**

Meeting Date: 12/17/2018

Re: Conditional Use & Design Review - 2006 Orange Avenue - RG Towers

Submitted For: Rebecca Grohall, Director, Planning & Zoning

SUBJECT:

Quasi-Judicial Hearing - Review and approval of an application for Conditional Use with New Construction & Design Review, submitted by Property Owners, Lesley Phillips & Abdel Jebbar Elbakkari, & Applicant, RG Towers LLC, to construct and operate a One Hundred & Thirty (130) foot Stealth Slim Pole Telecommunications Tower, located at 2006 Orange Avenue, Fort Pierce, FL. The property is zoned General Commercial (C-3) Parcel ID: 2409-605-0008-000-4

SUMMARY:

- The applicant RG Towers is seeking a Conditional Use with New Construction & Design Review approval to construct a telecommunications tower at 2006 Orange Avenue. The structure that is proposed is a one hundred and thirty (130) foot slim stealth pole telecommunications tower.
- The property is zoned C-3, General Commercial with a Future Land-Use of GC, General Commercial.
- The Planning Board at their meeting on November 13, 2018 voted 7-0 to recommend approval of the request as presented by staff.

RECOMMENDATION:

Staff recommends that the City Commission approve the Conditional Use with New Construction & Design Review with the following conditions:

1. The applicant sign the City's Mural Agreement & coordinate with the Grants Administration Division regarding their mural program for the proposed public art space on a 6 foot concrete wall before the City Commission meeting and that the landscaping be adjusted in regards to the concrete wall versus the wooden fence.
2. The applicant donate $25,000 for the cost associated with the installation & engineering for a bus shelter at 15th Street& Orange Avenue.
3. The applicant donate $4,231.56 for the cost, shipping, & taxes for a bike rack and a bike "fix it" station.

ALTERNATIVES:

Deny

RESPONSIBLE STAFF:

Brandon Creagan, LEED Green Associate, Planner

COORDINATED WITH:

Technical Review Committee

Fiscal Impact

OTHER INFORMATION:

N/A

Attachments

Staff Report
Application & Supporting Documents
Property Card
Aerial Map
Zoning Map
TRC Comments
TRC Comment Response from Applicant
November Planning Board Minutes
Public Notification Certification

Form Review

Inbox	Reviewed By	Date
City Manager	Nick Mimms	12/11/2018 08:28 AM

Form Started By: Brandon Creagan
Started On: 12/05/2018 08:41 AM
Final Approval Date: 12/11/2018

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

TO: Nicholas Mimms, PE, City Manager

THROUGH: Rebecca Grohall, AICP, Planning Director

FROM: Brandon Creagan, LEED Green Associate, Planner

SUBJECT: **Conditional Use (New Construction) & Design Review**
RG Towers – Telecommunications Tower
2006 Orange Avenue

DATE: December 5, 2018

STAFF REPORT

Applicant(s): RG Towers LLC
2141 Alternate A1A Suite 440
Jupiter, FL 33477

Property Owner: Lesley Phillips & Abdel Jebbar Elbakkari
2006 Orange Avenue
Fort Pierce, FL 34950

Requested Action: Recommendation of Approval with Conditions for a Conditional Use & Design Review Application to Construct a One Hundred & Thirty (130) foot Tall Slim Stealth Pole Telecommunications Tower

Location: 2006 Orange Avenue

Parcel IDs: 2409-605-0008-000-4

Parcel Size: 0.45 acres

Zoning: C-3, General Commercial

Future Land Use: GC, General Commercial

Surrounding Zoning:

North	East	South	West
R-3	C-3	C-3	C-3

Staff Analysis:

The applicant RG Towers is seeking a Conditional Use with New Construction & Design Review approval to construct a telecommunications tower at 2006 Orange Avenue. The structure that is proposed is a one hundred and thirty (130) foot slim stealth pole telecommunications tower. The property is zoned C-3, General Commercial with a Future Land-Use of GC, General Commercial. Urban Fashions currently runs its business on the parcel. The telecommunications tower will be located on the vacant part of the parcel.

The applicant is proposing a six (6) foot tall wood fence that will shield the site from the right of way and from nearby properties. At the Planning Board on November 11, 2018 a condition was placed on the project to install a concrete wall instead of a wood fence. In addition to the fence or wall, the applicant will also install thirty seven (37) six (6) foot tall Podocarpus on the north and east side of the fence that will act as a landscape buffer to further shield the compound from the right of way and nearby properties. On the south and west side of the fence the applicant will install fifty (50) eighteen (18) inch Dwarf Florida Gamagrass. The applicant is proposing the installation of a shorter shrub on the south and west sides of the fence to allow for the fence space to be utilized for public art. Lastly, seven (7) ten (10) foot tall Southern Live Oaks are to be installed to act as a secondary landscape buffer around the site.

The applicant will install a sidewalk along North 21 Street in accordance with City Code 22-62. The tower itself will provide one antenna for T-Mobile as well as a T-Mobile support structure. According to the plans the tower has the capacity to support two additional antenna and two additional support structures on the ground. The pole is designed to have a zero (0) foot fall zone so that in the event of structural failure the pole would buckle in on itself and not fall over.

The Orange Avenue corridor serves as a gateway to the Peacock Arts District, the Lincoln Park Neighborhood, and our Historic Downtown. It is vital that projects being develop along this corridor are planned so that they may integrate into the surrounding area and act as an entrance to the areas mentioned above. Because this project will be built in a gateway to all the districts mentioned above the applicant is donating space on their fence for public art or a mural of some kind. The applicant will sign the City's Mural Agreement with the Grants Administration Division that will enable the fence to be used as a canvas for a local artist. This will help with the beautification of this corridor and will help to give residents and visitors a positive feel as they drive down this corridor.

Lastly, the applicant has been in discussions with the Planning Department and St. Lucie County about a capital contribution for multi-modal improvements. In communication with St. Lucie County they have indicated a need for a bus shelter at 15th Street and Orange Avenue. The applicant has also expressed interest in installing one bike rack and one bike "fix it" station.

Planning Board:

At their meeting on November 13, 2018 the Planning Board voted 5-2 to recommend approval of the request with one condition that was different than staffs recommendation:

1. The applicant sign the City's Mural Agreement & coordinate with the Grants Administration Division regarding their mural program for the proposed public art space on a 6 foot concrete wall before the City Commission meeting and that the landscaping be adjusted in regards to the concrete wall versus the wooden fence.

Public Notification:

78 letters were sent to property owners within 500 feet of the subject property. As of December 5, 2018 0 letters have been returned. A update will be given at the City Commission meeting on December 17, 2018.

Technical Review Committee:

All affected City Departments have reviewed the proposed Conditional Use with New Construction & Design Review and have provided conditional approval based on compliance with requirements of the City Code. The comments generated from the technical review are provided for review. The applicant has addressed each reviewers comment and has made the proper corrections. The applicant's response to comments generated by the reviewers will also be included for your review.

Staff Recommendation:

Staff recommends that the City Commission approve the Conditional Use with New Construction & Design Review with the following conditions:

1. The applicant sign the City's Mural Agreement & coordinate with the Grants Administration Division regarding their mural program for the proposed public art space on a 6 foot concrete wall before the City Commission meeting and that the landscaping be adjusted in regards to the concrete wall versus the wooden fence.

2. The applicant donate $25,000 for the cost associated with the installation & engineering for a bus shelter at 15th Street & Orange Avenue.

3. The applicant donate $4,231.56 for the cost, shipping, & taxes for a bike rack and a bike "fix it" station.

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT *Florida*

DEVELOPMENT REVIEW

Property address or Location 2006 ORANGE AVENUE

Parcel ID #(s) 2409-605-0008-000-4

Project description New Communication tower w/ compound

Lesley Phillips / Abdel Jebbar Elbakkari

Property Owner(s)

2006 Orange Ave

Street Address

Ft Pierce FL 34950

City State Zip

772-595-8129

Phone Number

amal0012012@gmail.com

Email Address

RG Towers, LLC

Applicant/Representative, Title, Company

2141 Alternate A1A S Ste 440

Street Address

Jupiter, FL 33477

City State Zip

561-748-0302

Phone Number

hvaldez@rgpartners.com

Email Address

***Property Owner(s) Acknowledgements:** - This application will not be considered complete without the signature of all property owners of record, which shall serve as an acknowledgement of the submission of this application. The property owner's signature below shall also authorize the Applicant (if other than the property owner) and/or Representative to act in his/her behalf for the purposes of seeking approval for the application described herein. The undersigned consents to inspection and photographing of the subject property by the Planning staff for purposes of consideration of this Application and/or presentation to the Planning Board and City Commission.*

Lesley Phillips 6/14/18

Property Owner(s) Signature(s)

STATE OF FLORIDA – COUNTY

The foregoing instrument was acknowledged before me this 14th day of June, 2018, by Lesley Phillips who is personally known to me or has produced _____ as identification.

Holly Valdez

Signature of Notary

(seal)

HOLLY VALDEZ
Notary Public – State of Florida
Commission # GG 118687
My Comm. Expires Aug 4, 2021
Bonded through National Notary Assn.

INTAKE MEETINGS ARE REQUIRED FOR ALL SUBMITTALS. CALL (772) 467-3729

TO BE COMPLETED BY STAFF

Zoning	Future Land Use	Total Acres	Historic District	Historic Designation
				Contributing Individual Non-Contributing None

Pre-Application Meeting Date _____

Intake Planner _____

Planner Assigned _____

Approved By _____ Date _____

Comments _____

Fees _____ Control # _____ B. Permit # _____

Intake Date Stamp

☐ DEVELOPMENT REVIEW

General Information

- ☐ Incomplete application packets cannot be accepted.
- ☐ Site Plan approval is valid for one (1) year following City Commission approval. In order to maintain site plan approval, vertical improvements, permitted by the Building Department must commence prior to the 12-month expiration date, and building permits must be maintained until site plan is completed, per plans, or approval shall lapse.

Choose Application Type:

Application Type		
☑ Site Plan	☐ Conditional Use with New Const.	☐ Major Amendment
☐ Conceptual Development Plan		☐ Minor Amendment

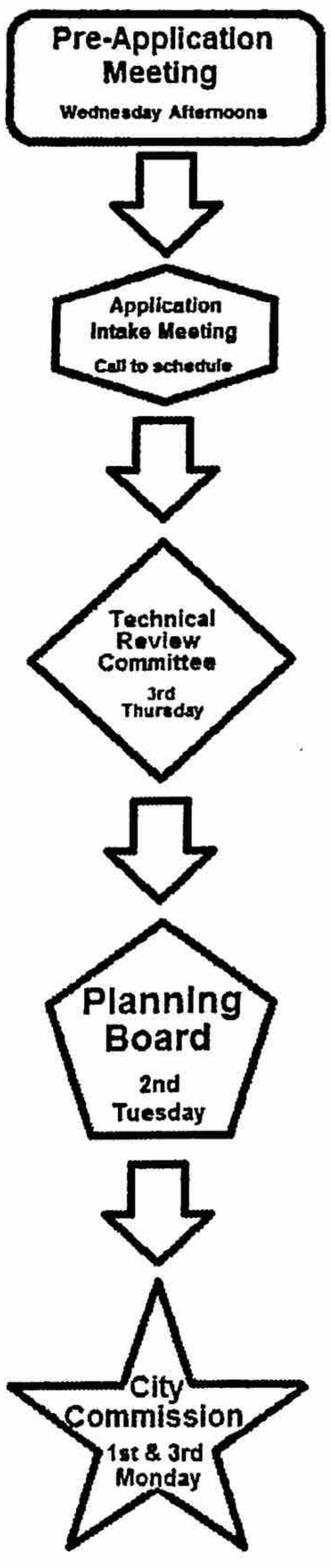
Site Information:

Non-Residential: Proposed Sq. Ft.: 2000 Residential: Proposed Units: 0

Surrounding Uses: *(i.e. single family home, retail, industrial, etc.)*

North	South	East	West
R3	C3	C3	C3

Application Outlook



Site Plan submittal requirements:

Submit one (1) original & thirteen (13) hard copies and one (1) CD of the following. Additional copies will be required of subsequent submittals.

- ☑ Complete notarized application
- ☑ Warranty Deed
- ☑ SLC Property Record Card
- ☑ Statements of ownership & control of proposed development. Statement describing in detail: character & intended use.
- ☑ General location map (see Section 22-58.d.2)
- ☑ Survey (see Section 22-58.d.3)
- ☑ Site Plan (see Section 22-58.d.4)
- ☑ Landscaping Plan (see Section 22-187)
- ☑ Storm Drainage Plan (see Section 22-58.d.6)
- ☐ Environmental Impact Report
- ☑ Beach/Dune System protection plan, if applicable (see Section 22-58.d.7)
- ☐ Lighting Plan (see Section 22-58.d.8)
- ☐ Design Review submittals (see Design Review application) NA
- ☐ Traffic Impact Report NA
- ☐ Concurrency Review submittals (see Concurrency Review application) NA

RG Towers, LLC

5/10/18

RE: Zoning Review Section 22-159-B 7
Letter of intent. RG Towers Ft Pierce Orange Ave TC11

Dear Sir/ Madam:

RG Towers, LLC is applying for approvals to build a 130' stealth communications tower, which will be available for collocation in St Lucie County. The following information is provided pursuant to the requirements of the City of Fort Pierce Land Development Regulations Section 22-159 and notices have been provided to all major carriers.

-

Tower Height/Type	130' Stealth communications tower
Address	2006 Orange Ave, Fort Pierce, FL 34950
Coordinates	Approximately 27.447636, -80.345960
General Rate	Dependent upon height, loading and ground space required
Tentative Construction date	Q3, 2018

RG Towers, LLC and its successors will agree to the shared use of the tower if an additional user agrees, in writing, to meet reasonable terms and conditions for shared use

.

Sincerely,

Scott Richards
CEO
RG Towers, LLC

2141 Alternate A1A South, Suite 440
Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com

RG Towers, LLC

5-10-18

RE: RG Towers-Ft Pierce- Orange Ave Relevant Easements

Per the requirement of code Section 22-159 (b) 6 “Copies of Relevant Easements”, we report that there are no relevant easements to this application per the title report dated 10/18/17.

- US TITLE SOLUTIONS FILE NO.58394-FL1710-5030
  REFERENCE NO. TC11 SITE NAME Ft Pierce- Orange Ave

Sincerely,

Holly Valdez
V.P. Operations
RG Towers, LLC

2141 Alternate A1A South, Suite 440
Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com

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

Aeronautical Study No.
2017-ASO-25626-OE

Issued Date: 01/03/2018

Scott Richards
RG Towers, LLC
2141 Alternate A1A, South
Suite 440
Jupiter, FL 33477

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

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

Structure:	Monopole ORANGE AVENUE
Location:	Ft. Pierce, FL
Latitude:	27-26-51.58N NAD 83
Longitude:	80-20-45.15W
Heights:	20 feet site elevation (SE)
	150 feet above ground level (AGL)
	170 feet above mean sea level (AMSL)

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

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

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

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

This determination expires on 07/03/2019 unless:

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

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

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

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

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

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

If we can be of further assistance, please contact our office at (404) 305-6462, or mike.blaich@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2017-ASO-25626-OE.

Signature Control No: 351367066-352287243 (DNE)
Michael Blaich
Specialist

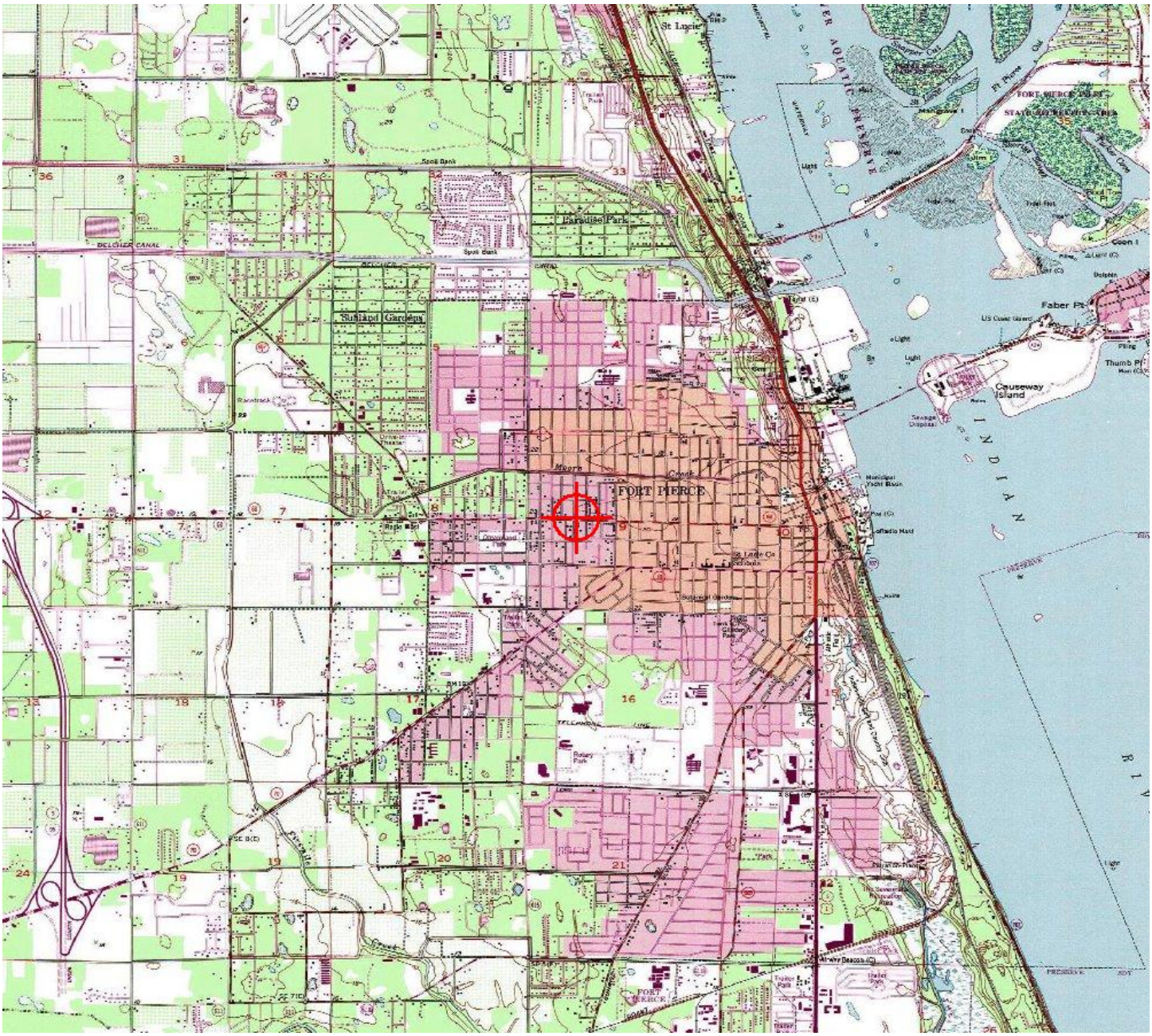
Attachment(s)
Frequency Data
Map(s)

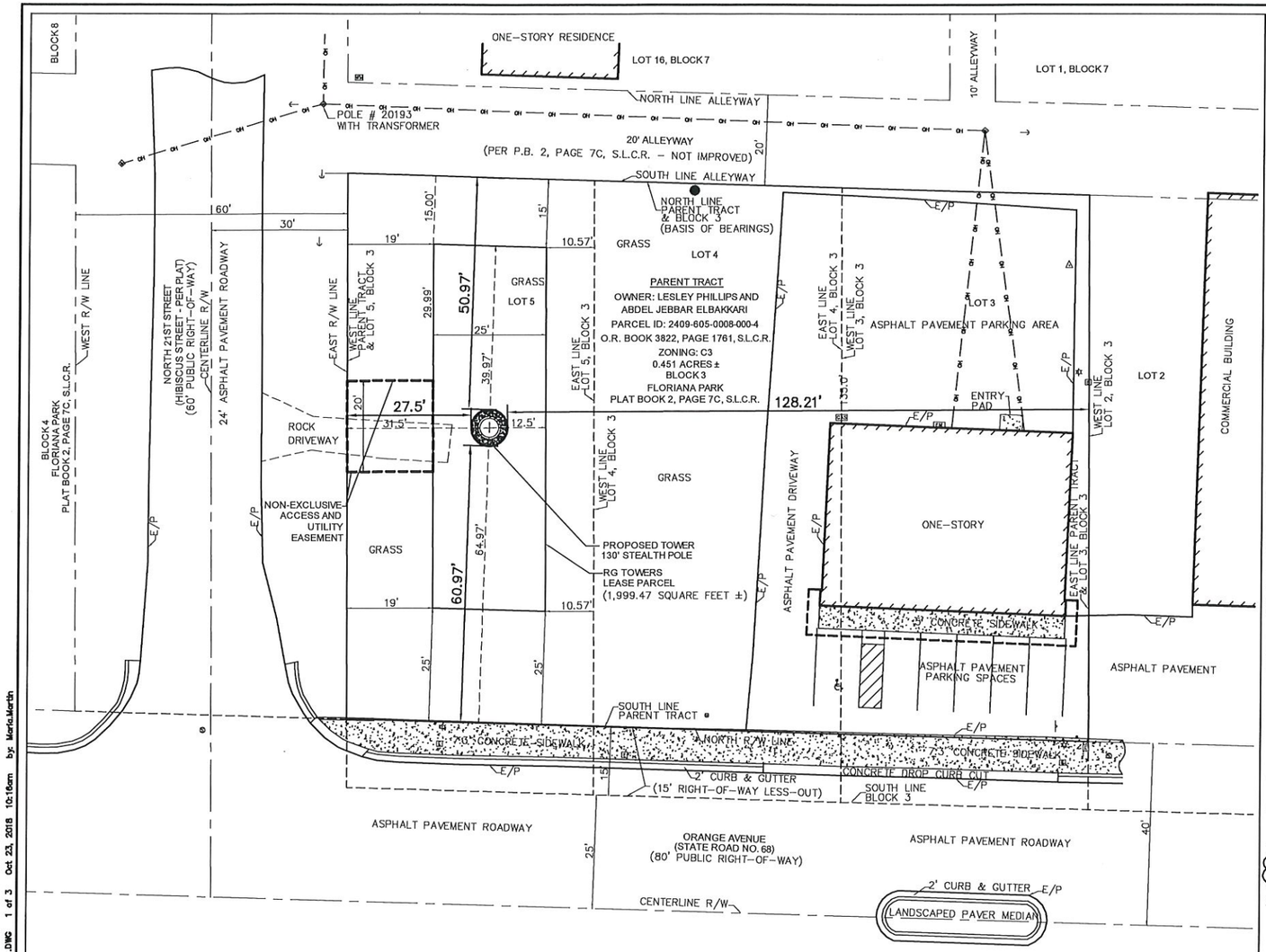
cc: FCC

Frequency Data for ASN 2017-ASO-25626-OE

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

TOPO Map for ASN 2017-ASO-25626-OE





0 15 30

SCALE AS SHOWN

OVERALL SITE PLAN

ADJACENT ZONING CLASSIFICATIONS	ZONING/LAND USE CLASSIFICATION
ZONING TO EAST	C-3/GENERAL COMMERCIAL
ZONING TO SOUTH	C-3/GENERAL COMMERCIAL
ZONING TO WEST	C-3/GENERAL COMMERCIAL
ZONING TO NORTH	R3/SINGLE FAMILY MODERATE DENSITY

SETBACKS TO PROPERTY LINE				
STRUCTURE	NORTH PROPERTY LINE (FT)	SOUTH PROPERTY LINE (FT)	EAST PROPERTY LINE (FT)	WEST PROPERTY LINE (FT)
TOWER (EDGE)	50.97	60.97	128.21	27.5

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PROJECT DESCRIPTION

THIS PROJECT IS FOR THE CONSTRUCTION OF AN UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF THE INSTALLATION OF A 130' STEALTH POLE COMMUNICATIONS TOWER AND FUTURE WIRELESS BASE STATION EQUIPMENT IN ORDER TO PROVIDE RADIO TRANSMISSION SERVICES FOR PERSONAL COMMUNICATIONS AS WELL AS EMERGENCY 911 SERVICE. PROJECT SIZE IS 1,999.47 SF COMPOUND.

COORDINATES: (CENTER OF 130' STEALTH POLE)
LAT: 27°26'51.584" N (NAD 83/2011)
LONG: 80°20'45.150" W (NAD 83/2011)
ELEVATION: 19.8'± NAVD 88 (PER SURVEY)
FOLIO NUMBER: 2409-605-0008-000-4

PROJECT APPLICANT

RG TOWERS, LLC
2141 ALTERNATE A1A SOUTH, SUITE 440
JUPITER, FL 33477
561-748-0302 ATTN: SCOTT RICHARDS

PROPERTY OWNER

LESLEY PHILLIPS
ABDEL JEBBAR ELBAKKARI
2006 ORANGE AVE
FORT PIERCE, FL 34950

UTILITIES

THIS PROJECT WILL REQUIRE POWER AND TELEPHONE SERVICE ONLY, NO WET UTILITIES OR GARBAGE COLLECTION WILL BE NEEDED TO SUPPORT THIS PROJECT

HANDICAP ACCESS

THIS FACILITIES IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAP ACCESS IS NOT REQUIRED

IMPERVIOUS COVERAGE

PROPOSED IMPERVIOUS SURFACE COVERAGE IS EQUAL TO FUTURE BUILDING (EQUIPMENT SLABS) AND TOWER FOOTPRINTS (650 SF MAX)

PROJECT DENSITY

THERE ARE NO RESIDENTIAL UNITS FOR THIS PROJECT. PROJECT DENSITY IS N/A.

DRAINAGE REQUIREMENTS

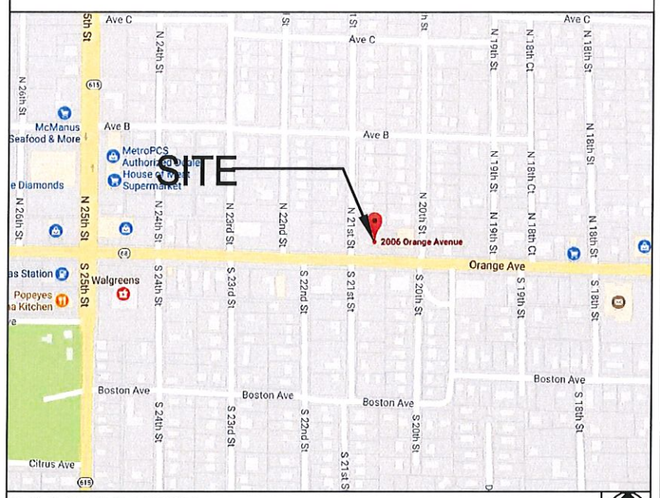
THE FIRST 1" OF STORMWATER RUNOFF IS TO BE RETAINED ON SITE PRIOR TO DISCHARGE TO THE OVERALL MASTER DRAINAGE SYSTEM FOR THE PARENT TRACT.

LANDSCAPING REQUIREMENTS

PERIMETER LANDSCAPING AROUND COMPOUND TO BE IN COMPLIANCE WITH CITY OF FORT PIERCE CODE.

NOTES:

1. FCC REQUIRES SIGNS TO BE PROVIDED AND INSTALLED AS NECESSARY.
2. "HIGH VOLTAGE-DANGER" SIGN INSTALLED ON GATE AND SIGN SHALL NOT EXCEED 1 SF IN AREA.
3. 6' HIGH WOOD FENCE AND LOCKED ENTRY GATE.
4. ALL CONSTRUCTION WILL COMPLY WITH SECTIONS 17 AND 22 OF THE CITY OF FORT PIERCE CODE OF ORDINANCES.



LOCATION MAP

RG Towers, LLC
2141 Alternate A1A South, Suite 440
Jupiter, FL 33477

PROJECT INFORMATION:

FT PIERCE-ORANGE AVE
2006 ORANGE AVE
FORT PIERCE, FL 34950
ST LUCIE COUNTY

CURRENT ISSUE DATE:
OCTOBER 2018

ISSUED FOR:
SITE PLAN REVIEW

REV.:	DATE:	DESCRIPTION:
1	10-19-18	PER CITY COMMENTS

SEAL

MARIA VICTORIA MARTIN
LICENSE
No. 72397
STATE OF FLORIDA
PROFESSIONAL ENGINEER
10/23/18

PLANS PREPARED BY:

Kimley»Horn
© 2017 KIMLEY-HORN AND ASSOCIATES, INC.
1920 WEKIVA WAY, SUITE 200
WEST PALM BEACH, FLORIDA 33411
(561) 845-0665
FBPE CA00000696

PROVIDER:

DRAWN BY:	CHK.:	APV.:
MM	LF	MM

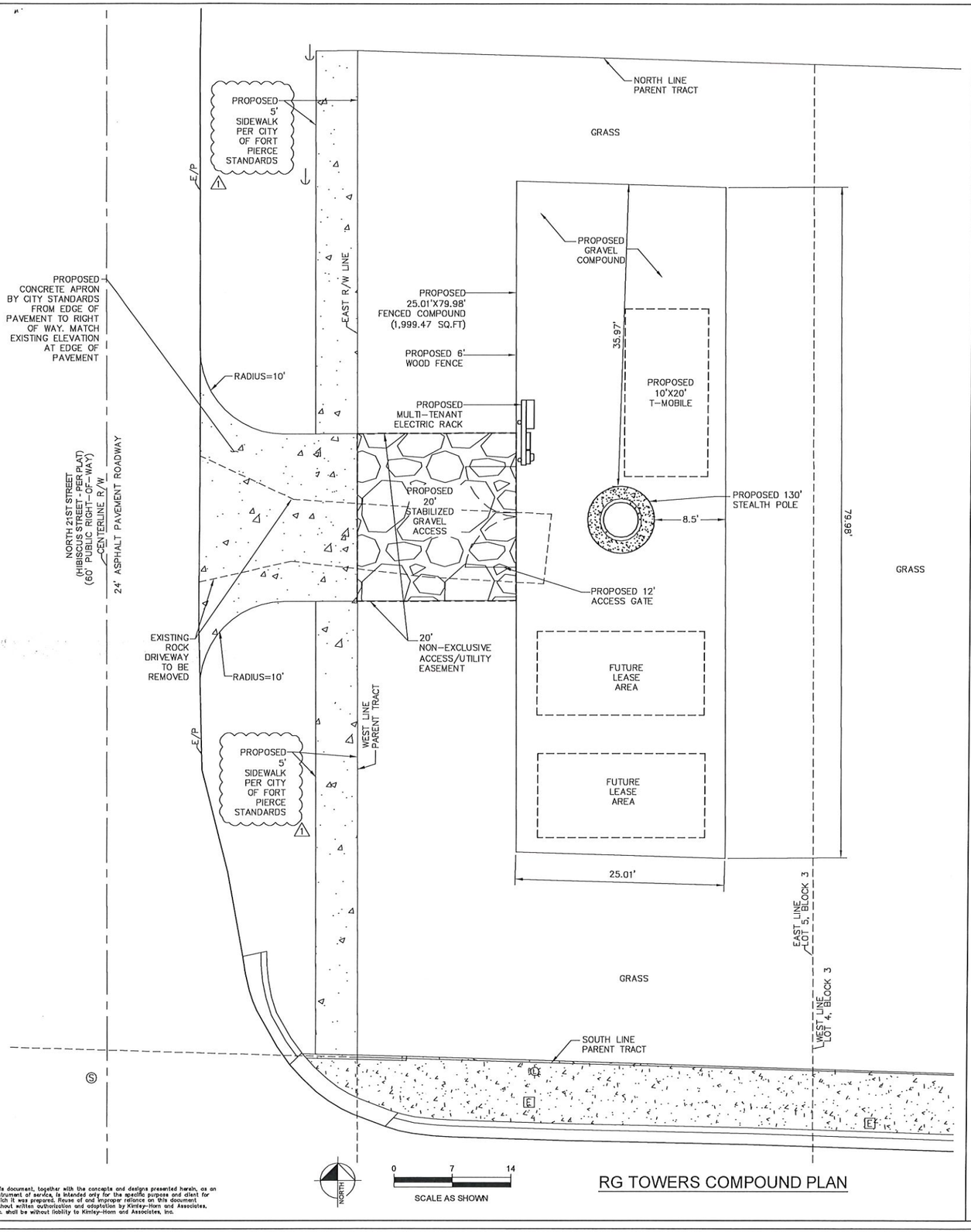
LICENSURE:
MARIA VICTORIA MARTIN PE 72397

SHEET TITLE:
SITE PLAN

SHEET NUMBER: 1/3 REVISION:

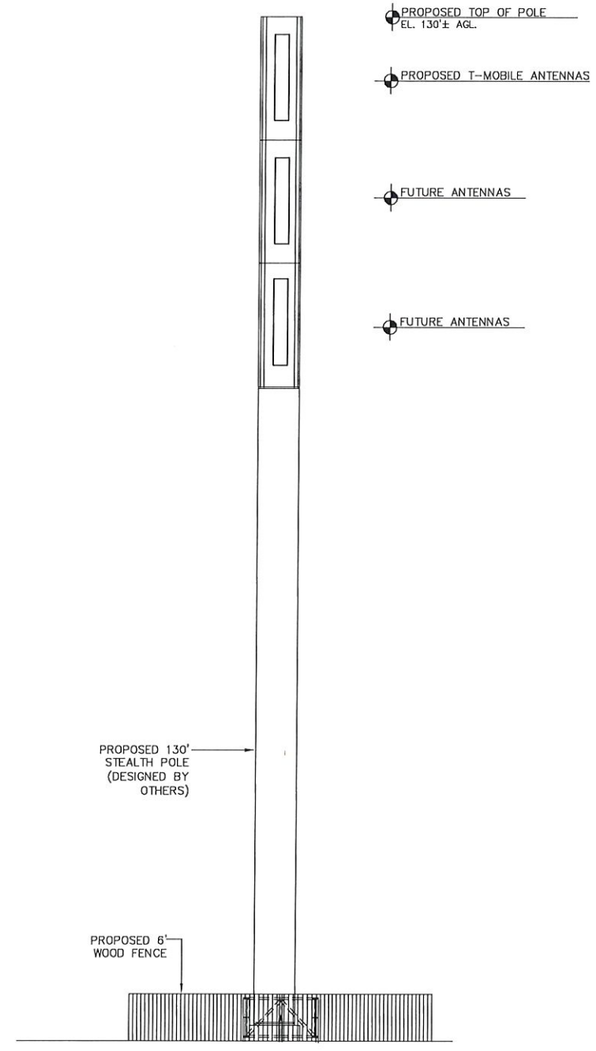
KHA Job #:
144042047

Drawing name: K:\WPB_CW\CELL SITES\VRP Tower\144042047 Ft Pierce- 2006 Orange Ave\cad\Zds\Site Plan.DWG 1 of 3 Oct 23, 2018 10:16am by: Maria.Martin



RG TOWERS COMPOUND PLAN

FLOOD ZONE INFORMATION					
COMMUNITY NUMBER	PANEL NUMBER	SUFFIX	DATE OF FIRM	FIRM ZONE	BASE FLOOD ELEVATION
120286	0178	J	02/16/2012	X	N/A



TOWER ELEVATION

N.T.S.

NOTE:
1. ALL PROPOSED ATTACHMENTS TO TOWER BASED ON STRUCTURAL ANALYSIS BY OTHERS.

2. TOWER IS DESIGNED FOR A TOTAL OF THREE WIRELESS SERVICE PROVIDERS. LOCATION OF FUTURE PROVIDERS IS APPROXIMATE.

3. CONTRACTOR TO COORDINATE ANTENNA MOUNTS W/ OWNER.

4. CONTRACTOR TO REFER TO STRUCTURAL ANALYSIS (BY OTHERS).

5. POLE TO BE GALVANIZED STEEL WITH NO LIGHTING AND NO FLAG TO BE FLOWN

6. TOWER WILL HAVE A ZERO FALL ZONE ⚠1

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Drawing name: K:\WPB_Civil\CELL SITES\RGP Tower\144042047 Ft Pierce- 2006 Orange Ave\cad\Zds\Site Plan.DWG 2 of 3 Oct 19, 2018 11:01am by: MartaMartin

RG Towers, LLC
2141 Alternate A1A South, Suite 440
Jupiter, FL 33477

PROJECT INFORMATION:

FT PIERCE–ORANGE AVE
2006 ORANGE AVE
FORT PIERCE, FL 34950
ST LUCIE COUNTY

CURRENT ISSUE DATE:
OCTOBER 2018

ISSUED FOR:
SITE PLAN REVIEW

REV.:	DATE:	DESCRIPTION:
⚠1	10-19-18	PER CITY COMMENTS

SEAL:

MARIA VICTORIA MARTIN
LICENSE
No. 72397
STATE OF FLORIDA
ENGINEER

PLANS PREPARED BY:

Kimley»Horn

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1920 WEKIVA WAY, SUITE 200
WEST PALM BEACH, FLORIDA 33411
(561) 845-0665
FBPE CA00000696

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MM	LF	MM

LICENSURE:
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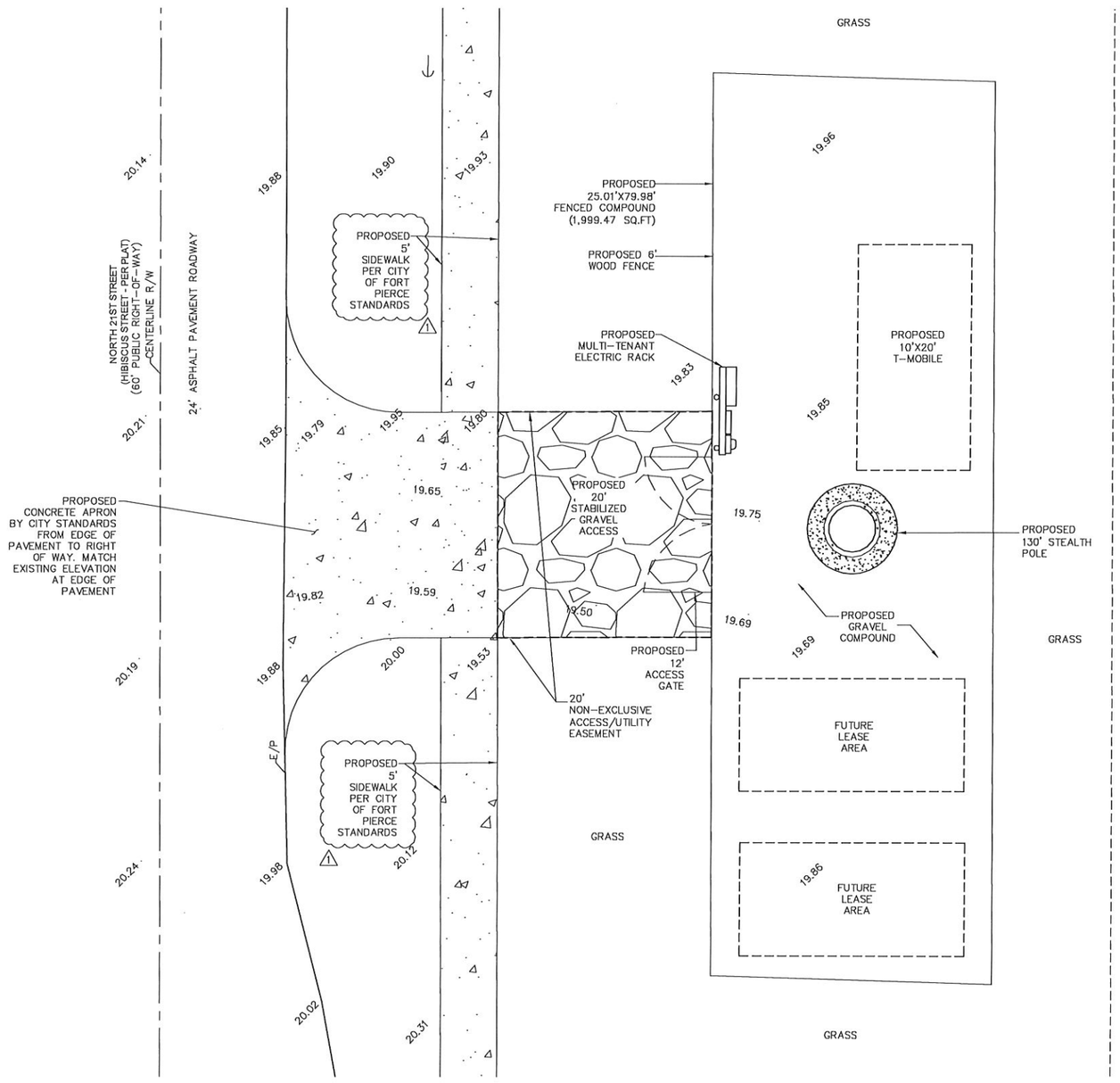
SHEET TITLE:
RG TOWERS COMPOUND PLAN & TOWER ELEVATION

SHEET NUMBER: 2/3 REVISION:

KHA Job #:
144042047

FLOOD ZONE INFORMATION					
COMMUNITY NUMBER	PANEL NUMBER	SUFFIX	DATE OF FIRM	FIRM ZONE	BASE FLOOD ELEVATION
120286	0178	J	02/16/2012	X	N/A

19.83 EXISTING GRADES NAVD 88



DRAINAGE CALCULATIONS:

I. GENERAL SITE PLAN INFORMATION:

GRAVEL COMPOUND AREA: 1,999.47 SF
IMPERVIOUS AREA:
PROPOSED TOWER FOUNDATION = 50 SF
PROPOSED FUTURE EQUIPMENT SLABS: 450 SF
EQUIPMENT SLABS, 3 CARRIER @ 150 SF EACH

TOTAL IMPERVIOUS AREA: 500 SF

TOTAL PERVIOUS AREA: 1,499.47 SF

II. CALCULATE REQUIRED STORAGE RUNOFF:

1. 1" OF RUNOFF OVER TOTAL SITE
   Q = 1,999.47 SF X 1" X 1'/12"
   Q = 166.6 X 50% (ALLOWABLE REDUCTION)
   Q = 83.3 CF

III. STORAGE VOLUME PROVIDED:

No. 57 STONE COMPOUND, 4" LAYER, 1,999.47 SF COMPOUND. ASSUME 40% VOIDS RATIO.

RETENTION VOLUME PROVIDED = (1,999.47 SF – 500 SF) X 0.4 X 4"/12" =199.9 CF

RETENTION VOLUME PROVIDED = 199.9 CF

RETENTION VOLUME PROVIDED IS GREATER THAN REQUIRED VOLUME

NORTH

0 6 12

SCALE AS SHOWN

STORM DRAINAGE PLAN

NOTE:
ALL STORM DRAINAGE FACILITIES SHALL CONFORM TO CHAPTERS 17 AND 18 OF THE FORT PIERCE CODE OF ORDINANCES AND THE "STANDARD SPEDIFICATIONS" ADOPTED BY THE CITY COMMISION ON FEBRUARY 13, 1973.

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Drawing name: K:\WPB_Civil\CELL SITES\RGP Tower\144042047 Ft Pierce- 2006 Orange Ave\cad\ZDs\Site Plan.DWG 3 of 3 Oct 19, 2018 11:01am by: MartaMartin

RG Towers, LLC
2141 Alternate A1A South, Suite 440
Jupiter, FL 33477

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2006 ORANGE AVE
FORT PIERCE, FL 34950
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SEAL:

MARIA VICTORIA MARTIN
LICENSE
No. 72397
STATE OF FLORIDA
PROFESSIONAL ENGINEER
10/19/18

PLANS PREPARED BY:

Kimley»Horn
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WEST PALM BEACH, FLORIDA 33411
(561) 845-0665
FBPE CA00000696

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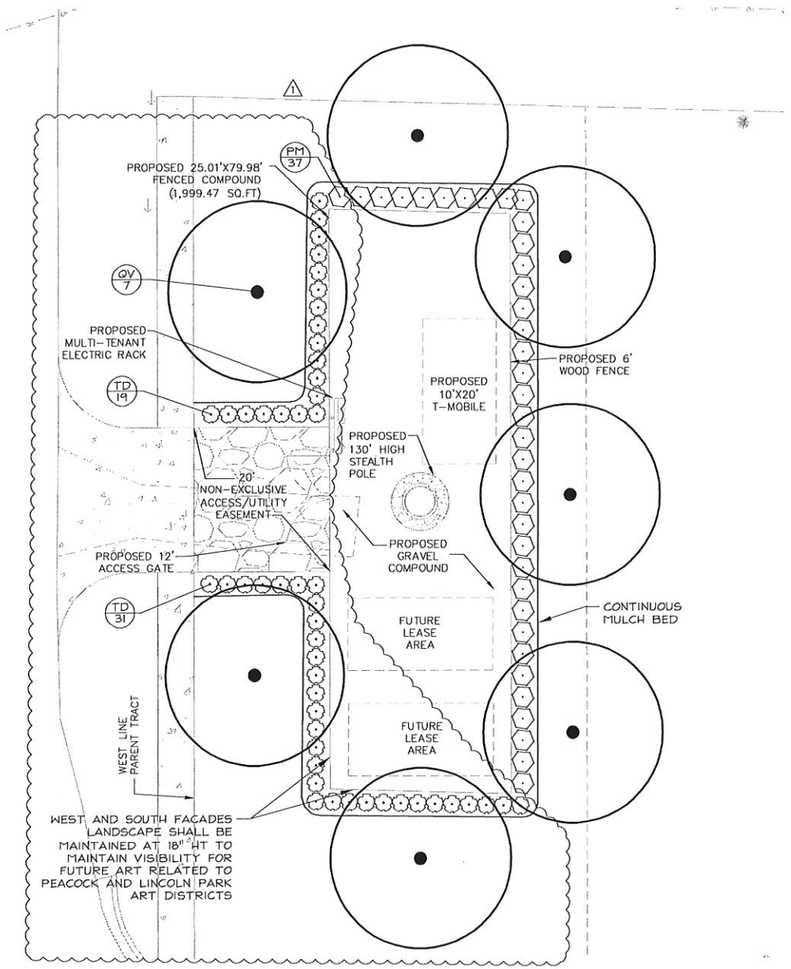
DRAWN BY:	CHK.:	APV.:
MM	LF	MM

LICENSURE:
MARIA VICTORIA MARTIN PE 72397

SHEET TITLE:
STORM DRAINAGE PLAN

SHEET NUMBER: 3/3 REVISION:

KHA Job #:
144042047



PLANTING NOTES:

1. CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, GENERAL NOTES AND ALL CONTRACT DOCUMENTS FOR FURTHER AND COMPLETE INSTRUCTIONS.
2. PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE. IN THE EVENT OF QUANTITY DISCREPANCIES THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BIDDING.
3. PLANT SIZES LISTED ARE THE MINIMUM SIZE THAT WILL BE ACCEPTED FOR THAT PLANT.
4. ANY SUBSTITUTION IN SIZE AND/OR PLANT MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT IN WRITING. ALL PLANTS WILL BE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT AND/OR OWNERS REPRESENTATIVE BEFORE PLANTING CAN BEGIN.
5. CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES AND/OR INTERFERE WITH EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
6. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK AND INCLUDED IN THE SPECIFICATIONS.
7. CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN CALENDAR DAYS OF NOTICE TO PROCEED.
8. ALL NEW AND TRANSPLANTED PLANT MATERIAL SHALL BE IRRIGATED BY TYING INTO THE EXISTING AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.

PLANT SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	QTY
QV	Quercus virginiana	Southern Live Oak	30 gal	3" Cal.	10'HT X 5'SPR	7
SHRUBS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**O.C.**	**SIZE**	**QTY**
PM	Podocarpus macrophyllus	Podocarpus	7 gal	36" O.C.	6'H Min	37
TD	Tripsacum floridanum	'Dwarf' Florida Gamagrass	Cont.	30" O.C.	18" HT	50

CODE COMPLIANCE SUMMARY:	
PERIMETER BUFFER REQUIRED:	PROVIDED:
SHADE TREES 1/30 LF 190 LF / 30 LF = 7 SHADE TREES	7 SHADE TREES
CONTINUOUS HEDGE 6' H	CONTINUOUS HEDGE

NORTH

GRAPHIC SCALE IN FEET
0 5 10 20

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RG Towers, LLC
2141 Alternate A1A South, Suite 440
Jupiter, FL 33477

PROJECT INFORMATION:

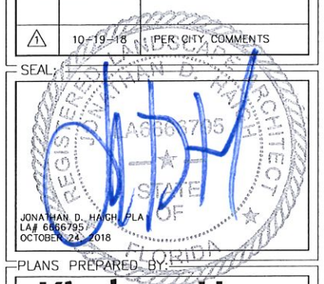
FT PIERCE-ORANGE AVE
2006 ORANGE AVE
FORT PIERCE, FL 34950
ST LUCIE COUNTY

CURRENT ISSUE DATE:
OCTOBER 2018

ISSUED FOR:
LANDSCAPE PLANS

REV.:	DATE:	DESCRIPTION:
1	10-19-18	PER CITY COMMENTS

SEAL:



JONATHAN D. HAIGH, PLA
LA# 6666795
OCTOBER 24, 2018

PLANS PREPARED BY:

Kimley»Horn
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1920 WEKIVA WAY, SUITE 200
WEST PALM BEACH, FLORIDA 33411
(561) 845-0665
FBPE CA00000696

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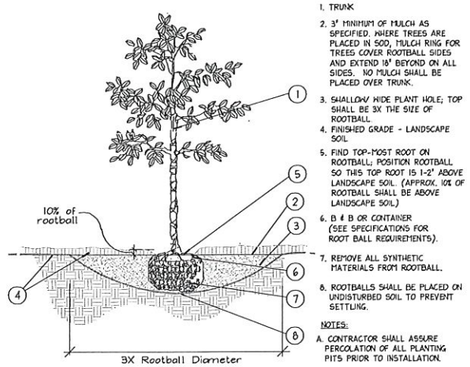
DRAWN BY:	CHK.:	APV.:
MM	LF	MM

LICENSURE:
JONATHAN D. HAIGH, PLA LA#6666795

SHEET TITLE:
LANDSCAPE PLANS

SHEET NUMBER: L-1 REVISION:

KHA Job #: 144042047



1. TRUNK
2. 3' MINIMUM OF MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES COVER ROOTBALL SIDES AND EXTEND 18' BEYOND ON ALL SIDES. NO MULCH SHALL BE PLACED OVER TRUNK.
3. SHALLOW WIDE PLANT HOLE; TOP SHALL BE 3X THE SIZE OF ROOTBALL.
4. FINISHED GRADE - LANDSCAPE SOIL
5. FIND TOP-MOST ROOT ON ROOTBALL; POSITION ROOTBALL SO THIS TOP ROOT IS 1-2' ABOVE LANDSCAPE SOIL. (APPROX. 10% OF ROOTBALL SHALL BE ABOVE LANDSCAPE SOIL)
6. B & B OR CONTAINER (SEE SPECIFICATIONS FOR ROOT BALL REQUIREMENTS).
7. REMOVE ALL SYNTHETIC MATERIALS FROM ROOTBALL.
8. ROOTBALLS SHALL BE PLACED ON UNDISTURBED SOIL TO PREVENT SETTLING.

NOTES:

A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

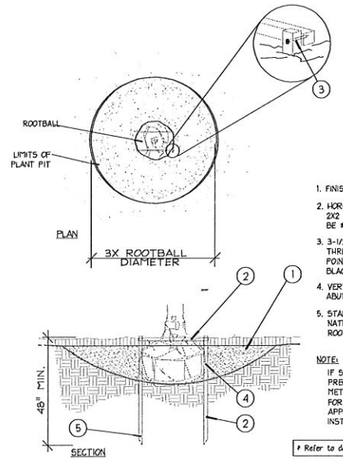
B. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.

C. SEE PRE-APPROVED STAKING METHODS, THIS SHEET

* ALL TREES SHALL BE PLUMB VERTICALLY WITHIN A TOLERANCE OF THREE DEGREES, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

Tree Planting

SECTION NTS



1. FINISH GRADE
2. HORIZONTAL 2X2 SCREWED TO 2X2 STAKE. ALL WOOD SHALL BE #2 UNTREATED.
3. 3-1/2" DRYWALL SCREW, THREAD SIZE 12, SHARP POINT, FULL THREAD, BLACK PHOSPHATE FINISH
4. VERTICAL STAKES SHALL ABUT SIDE OF ROOTBALL
5. STAKES TO EXTEND INTO NATIVE SOIL BY 1-1/2 X THE ROOTBALL DEPTH MIN.

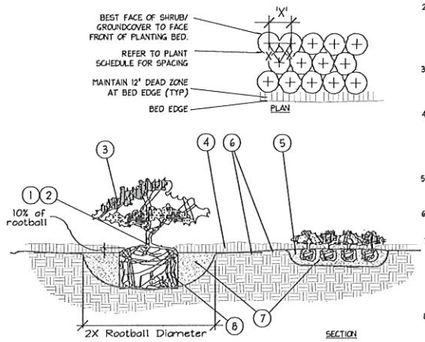
NOTE:

IF SPATIAL REQUIREMENTS PRECLUDE STAKING WITH THIS METHOD, SUBMIT ALTERNATE FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO INSTALLING PLANT.

* Refer to details B and D for planting

Staking - up to 65 gal.

PLAN/SECTION NTS



NOTES:

1. FIND POINT WHERE TOPMOST ROOT EMERGES FROM TRUNK WITHIN 2" OF SURFACE. CLEAR EXCESS SOIL IF NECESSARY.
2. TOP 10% OF SHRUB AND GROUNDCOVER ROOTBALLS TO BE PLANTED ABOVE THE LANDSCAPE GRADE. DO NOT COVER EXPOSED 10% ON SIDES WITH SOIL.
3. PRUNE ALL LIKE SHRUBS WITHIN A PLANTED MASS TO ACHIEVE A UNIFORM MASS/HEIGHT.
4. 3" MINIMUM MULCH AS SPECIFIED - DO NOT COVER ENTIRE SHRUB ROOTBALL OR CREATE 'WATER RINGS' ONLY COVER SIDES OF ROOTBALL WITH MULCH
5. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
6. FINISHED GRADE (SEE GRADING PLAN).
7. PREPARED PLANTING SOIL AS SPECIFIED. NOTE: WHEN GROUND- COVERS AND SHRUBS USED IN MASSES, ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
8. SCARIFY ROOTBALL SIDES AND BOTTOM

* ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

Shrub / Groundcover Planting

PLAN/SECTION NTS

A. SCOPE OF WORK

1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS HEREIN SPECIFIED.
2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.

C. PROTECTION OF EXISTING PLANT MATERIALS OUTSIDE LIMIT OF WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED WHERE HEAT WILL DAMAGE ANY PLANT. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/ OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS ($100) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

D. MATERIALS

1. PLANT MATERIALS

A. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. NOMENCLATURE SHALL CONFORM TO STANDARDIZED PLANT NAMES, 1942 EDITION. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE

B. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

C. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY; SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

1. SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF TWO PARTS OF TOPSOIL AND ONE PART SAND, AS DESCRIBED BELOW.
2. TOPSOIL FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER; REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER; FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND A PH BETWEEN 5.5 AND 7.0 - SUBMIT SAMPLE AND PH TESTING RESULTS FOR APPROVAL.
3. SAND SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND. CONTRACTOR SHALL SUBMIT RESULTS OF SOIL TESTS FOR TOPSOIL AND SAND PROPOSED FOR USE UNDER THIS CONTRACT FOR APPROVAL BY THE OWNER.
4. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE - AT WHICH POINT THE CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.
5. CONTRACTOR TO SUBMIT SAMPLES OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.

F. WATER

WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN AN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC.. IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

*WATERING/IRRIGATION RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

G. FERTILIZER

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-DERIVED.

*FERTILIZER RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

H. MULCH

MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A MINIMUM DEPTH OF 3 INCHES. CLEAR MULCH FROM EACH PLANT'S CROWN (BASE). TYPE OF MATERIAL: PINE STRAW.

I. PLANTING PROCEDURES

1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH HAVE IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.
2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL NATIONAL ONE CALL - 811 - TO LOCATE UTILITIES.
3. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36". CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE PLANTING DETAIL THAT ADDRESSES POOR DRAINAGE.
4. GENERAL: COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. UPON ARRIVAL AT THE SITE , PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ON-SITE SHALL NOT REMAIN UNPLANTED FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.
5. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS.
6. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK Z60.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS, UTILIZE 'POOR DRAINAGE CONDITION' PLANTING DETAIL. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN. PROPER 'JETTING' IN SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. 'JET STICK' OR EQUAL IS RECOMMENDED.
8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.
9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.
10. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACKFILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).
11. AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO INOCULATION.
12. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE, ONLY WITH MULCH. ALL BURLAP, ROPE, WIRES, BASKETS, ETC., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.
13. PRUNING: TREES SHALL BE PRUNED, AT THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY LICENSED ARBORIST, IN ACCORDANCE WITH ANSI A-300.
14. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS. MIX TOP 4" THE PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.
15. MULCHING: PROVIDE A THREE INCH (MINIMUM) LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT PLANTED UNDER THIS CONTRACT.
16. HERBICIDE WEED CONTROL: ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, 'ROUND-UP' SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER. (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

J. LAWN SODDING

1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.
2. LAWN BED PREPARATION: ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.
3. SOIL PREPARATION: PREPARE LOOSE BED FOUR (4) INCHES DEEP. HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY.
4. SODDING

A. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.

B. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.

C. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A 24 INCH STONE MULCH STRIP SHALL BE PROVIDED - REFER TO DETAILS. IMMEDIATELY FOLLOWING SOD LAYING, THE SOD IN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.

5. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE.
6. LAWN MAINTENANCE:

A. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12"X12") UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).

B. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD/LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

K. CLEANUP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM-CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

R. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER'S REPRESENTATIVE. MAINTENANCE AFTER THE CERTIFICATION OF ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF 90 CALENDAR DAYS COMMENCING AFTER ACCEPTANCE.

S. FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

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RG Towers, LLC
2141 Alternate A1A South, Suite 440
Jupiter, FL 33477

PROJECT INFORMATION:

FT PIERCE-ORANGE AVE
2006 ORANGE AVE
FORT PIERCE, FL 34950
ST LUCIE COUNTY

CURRENT ISSUE DATE:
OCTOBER 2018

ISSUED FOR:
LANDSCAPE PLANS

REV.:	DATE:	DESCRIPTION:

SEAL:



JONATHAN D. HAIGH, PLA
LA# 6666795
OCTOBER 26, 2018

PLANS PREPARED BY:

Kimley»Horn

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1920 WEKIVA WAY, SUITE 200
WEST PALM BEACH, FLORIDA 33411
(561) 845-0665
FBPE CA00000696

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MM	LF	MM

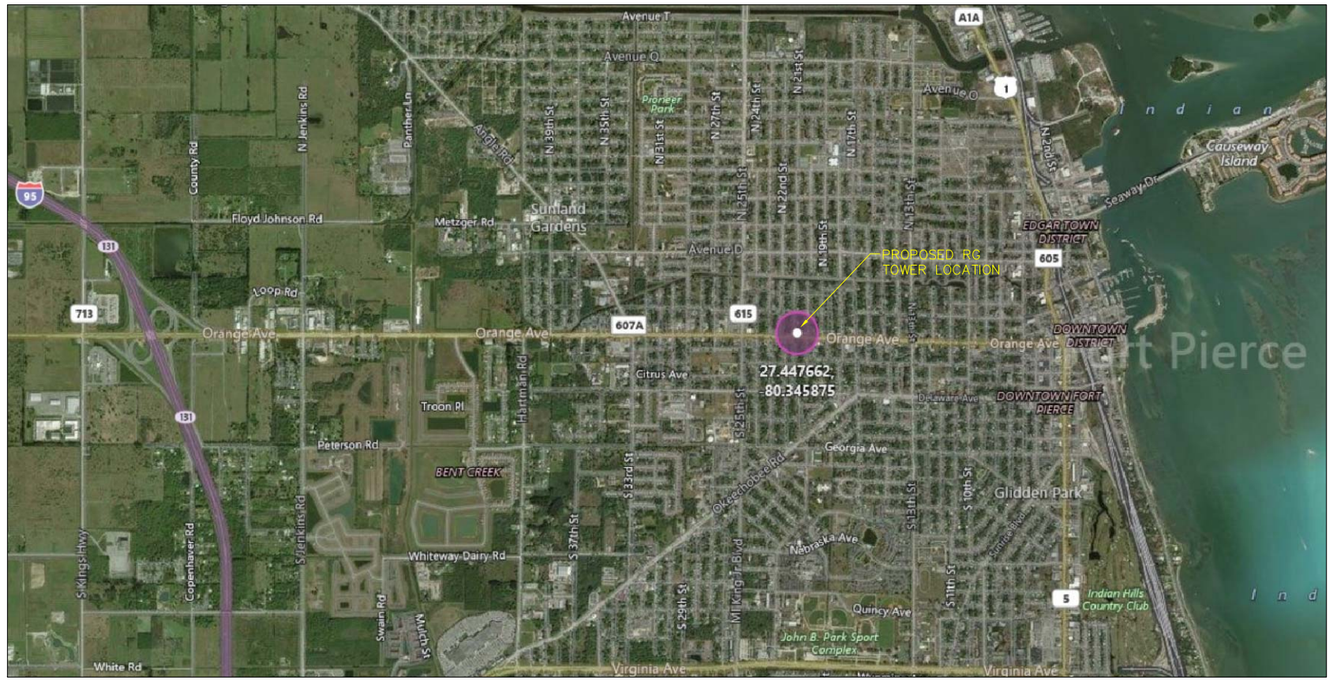
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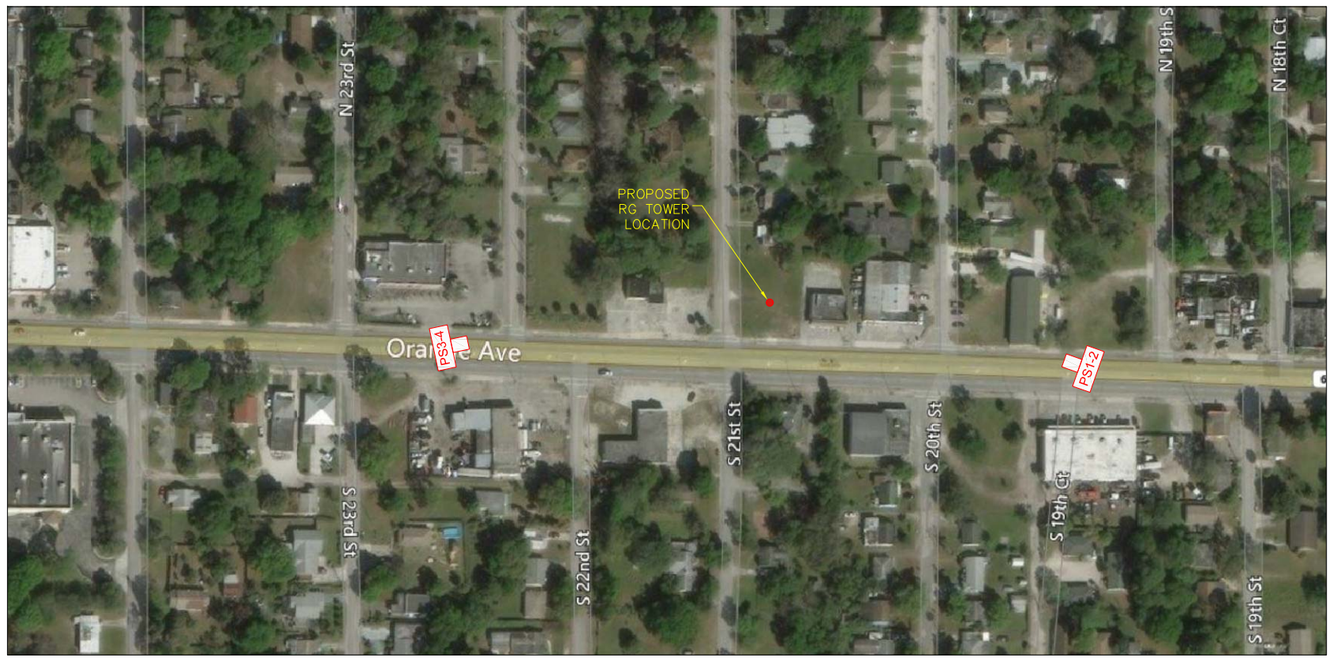
SHEET TITLE:
LANDSCAPE DETAILS

SHEET NUMBER:	REVISION:
L-2	

KHA Job #:
144042047



VICINITY MAP
N.T.S.



LOCATION MAP
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2141 Alternate A1A South, Suite 440
Jupiter, FL 33477

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2006 ORANGE AVE
FORT PIERCE, FL 34950
ST LUCIE COUNTY

CURRENT ISSUE DATE:

OCTOBER 2018

ISSUED FOR:

PHOTO SIM

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WEST PALM BEACH, FLORIDA 33411
(561) 845-0665
FBPE CA00000696

PROVIDER:

DRAWN BY:	CHK.:	APV.:
MM	LF	MM

LICENSURE:

MARIA VICTORIA MARTIN PE 72397

SHEET TITLE:

PHOTO SIMULATION
PHOTO LOCATIONS

SHEET NUMBER:	REVISION:
PS	

KHA Job #:

144042047



Elevation before installing 130' Unipole.

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RG Towers, LLC
2141 Alternate A1A South, Suite 440
Jupiter, FL 33477

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FT PIERCE-ORANGE AVE

2006 ORANGE AVE
FORT PIERCE, FL 34950
ST LUCIE COUNTY

CURRENT ISSUE DATE:

OCTOBER 2018

ISSUED FOR:

PHOTO SIM

REV.:	DATE:	DESCRIPTION:

SEAL:

PLANS PREPARED BY:

Kimley»Horn

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1920 WEKIVA WAY, SUITE 200
WEST PALM BEACH, FLORIDA 33411
(561) 845-0665
FBPE CA00000696

PROVIDER:

DRAWN BY:	CHK.:	APV.:
MM	LF	MM

LICENSURE:

MARIA VICTORIA MARTIN PE 72397

SHEET TITLE:

PHOTO SIMULATION
LOOKING EAST BEFORE

SHEET NUMBER:	REVISION:
PS1	

KHA Job #:

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Elevation after installing 130' Unipole.

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RG Towers, LLC
2141 Alternate A1A South, Suite 440
Jupiter, FL 33477

PROJECT INFORMATION:

FT PIERCE–ORANGE AVE

2006 ORANGE AVE
FORT PIERCE, FL 34950
ST LUCIE COUNTY

CURRENT ISSUE DATE:

OCTOBER 2018

ISSUED FOR:

PHOTO SIM

REV.:	DATE:	DESCRIPTION:

SEAL:

PLANS PREPARED BY:

Kimley»Horn
© 2018 KIMLEY-HORN AND ASSOCIATES, INC.
1920 WEKIVA WAY, SUITE 200
WEST PALM BEACH, FLORIDA 33411
(561) 845-0665
FBPE CA00000696

PROVIDER:

DRAWN BY:	CHK.:	APV.:
MM	LF	MM

LICENSURE:

MARIA VICTORIA MARTIN PE 72397

SHEET TITLE:

PHOTO SIMULATION
LOOKING EAST AFTER

SHEET NUMBER:	REVISION:
PS2	

KHA Job #:

144042047



Elevation before installing 130' Unipole.

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

RG Towers, LLC
2141 Alternate A1A South, Suite 440
Jupiter, FL 33477

PROJECT INFORMATION:

FT PIERCE–ORANGE AVE

2006 ORANGE AVE
FORT PIERCE, FL 34950
ST LUCIE COUNTY

CURRENT ISSUE DATE:

OCTOBER 2018

ISSUED FOR:

PHOTO SIM

REV.:	DATE:	DESCRIPTION:

SEAL:

PLANS PREPARED BY:

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WEST PALM BEACH, FLORIDA 33411
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MM	LF	MM

LICENSURE:

MARIA VICTORIA MARTIN PE 72397

SHEET TITLE:

PHOTO SIMULATION
LOOKING WEST BEFORE

SHEET NUMBER: PS3 REVISION:

KHA Job #: 144042047

Drawing name: K:\WPB_Civil\CELL SITES\RGP Tower\144042047 Ft Pierce- 2006 Orange Ave\cad\PhotoSim\Ft Pierce 2006 Orange Ave PS_1_1_0609.DWG PS3 Unipole Oct 23, 2018 11:09am by: ron.owens



Elevation after installing 130' Unipole.

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Drawing name: K:\WPB_Civil\CELL SITES\RGP Tower\144042047 Ft Pierce- 2006 Orange Ave\cad\PhotoSim\Ft Pierce 2006 Orange Ave PS_1_1_0609.DWG PS4 Unipole Oct 24, 2018 9:47am by ron.owens

RG Towers, LLC
2141 Alternate A1A South, Suite 440
Jupiter, FL 33477

PROJECT INFORMATION:

FT PIERCE–ORANGE AVE

2006 ORANGE AVE
FORT PIERCE, FL 34950
ST LUCIE COUNTY

CURRENT ISSUE DATE:

OCTOBER 2018

ISSUED FOR:

PHOTO SIM

REV.:	DATE:	DESCRIPTION:

SEAL:

PLANS PREPARED BY:

Kimley»Horn

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1920 WEKIVA WAY, SUITE 200
WEST PALM BEACH, FLORIDA 33411
(561) 845-0665
FBPE CA00000696

PROVIDER:

DRAWN BY:	CHK.:	APV.:
MM	LF	MM

LICENSURE:

MARIA VICTORIA MARTIN PE 72397

SHEET TITLE:

PHOTO SIMULATION
LOOKING EAST AFTER

SHEET NUMBER: PS4 REVISION:

KHA Job #:

144042047

RG Towers, LLC

Ft Pierce Planning and Zoning
100 N. U.S. Highway 1
Fort Pierce, FL 34950

RE: RG Towers – Ft Pierce- Orange Ave

Attached please find the following documents **(one original and ten copies and one CD)** to complete our submittal for a new communication tower per the code Sec. 22-159 (B) – Antenna support structure

(1) Application and fee 250.00
(2) 24 x 36 Site and landscape plan
(3) An elevation as part of the plans
(4) FAA compliance
(5) FCC Compliance To be filed upon approval
(6) Relevant easements.
(7) Intent of Shared Use.
(8) Notice of Shared Use
(9) Propagation Maps
(10) RF Report
(11) Structural calculations.
(12) Affidavit re: section 22-163 Removal
(13) A lease agreement- T-Mobile
(14) PE letter
(15) Copy of previously submitted bond

Also, please find the following per the Site plan submittal requirements per the Developmental review application:

- A Warranty Deed
- B SLC Property Record Card
- C Character and intended use statement
- D General location map
- E Survey
- F Storm Drainage plan (part of plans)
- G Beach/Dune System protection letter
- H Lighting Plan letter

Please let me know if you have any questions.

Sincerely,

Holly Valdez
RG Towers, LLC
V.P. Operations

2141 Alternate A1A South, Suite 440
Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com

RG Towers, LLC

5-10-18

RE: RG Towers-Ft Pierce- Orange Ave Lighting Plan- Section 22-58-D.8

There is no proposed lighting at the proposed development and hence section 22.58.D.8 below is not applicable

(8)
A lighting plan which shows illumination of all interior and immediately adjoining streets as follows:

a.
At least one (1) average foot-candle for streets classified as collector classified as collector, arterial or higher;

b.
At least five-tenths average foot-candle for streets other than as described in the immediately foregoing subsection;

c.
At least one (1) average foot-candle for specially designated pedestrian walkways.

The uniformity ratio for lighting required by this section shall be an average/minimum ratio of ten (10) to one (1). There shall be included with the lighting plan a statement of a registered engineer or architect showing calculations demonstrating compliance with this section to the city engineer and such statement shall be subject to the city engineer's approval. Subsequently a certificate of occupancy may not be issued until there is filed with the director a certificate from a registered engineer or architect of design that the lighting installation meets the requirements of this section.

Sincerely,

Holly Valdez
V.P. Operations
RG Towers, LLC

RG Towers, LLC

5-10-18

RE: RG Towers-FT Pierce Orange Ave Beach Dune Protection Plan- Section 22-58-D.7

The proposed development is greater than three miles to the beach and hence section 22.58.D.7 below is not applicable

(7)
A plan providing, where applicable, for the protection of the beach and dune system. The plan shall include these requirements:

a.
Demonstration of compliance with the coastal construction control line established pursuant to Chapter 161, Florida Statutes;

b.
All beach access points are to be provided as beach/dune walkovers in accordance with the requirements of the Florida Department of Natural Resources;

c.
No construction which threatens the stability of the primary dune or beach itself shall be permitted;

d.
No rigid shore protection structures shall be permitted except when used as part of a comprehensive plan for beach restoration and when nonstructural alternatives are unavailable;

e.
Demonstration of dune restoration measures conforming to the requirements of the Florida Department of Natural Resources.

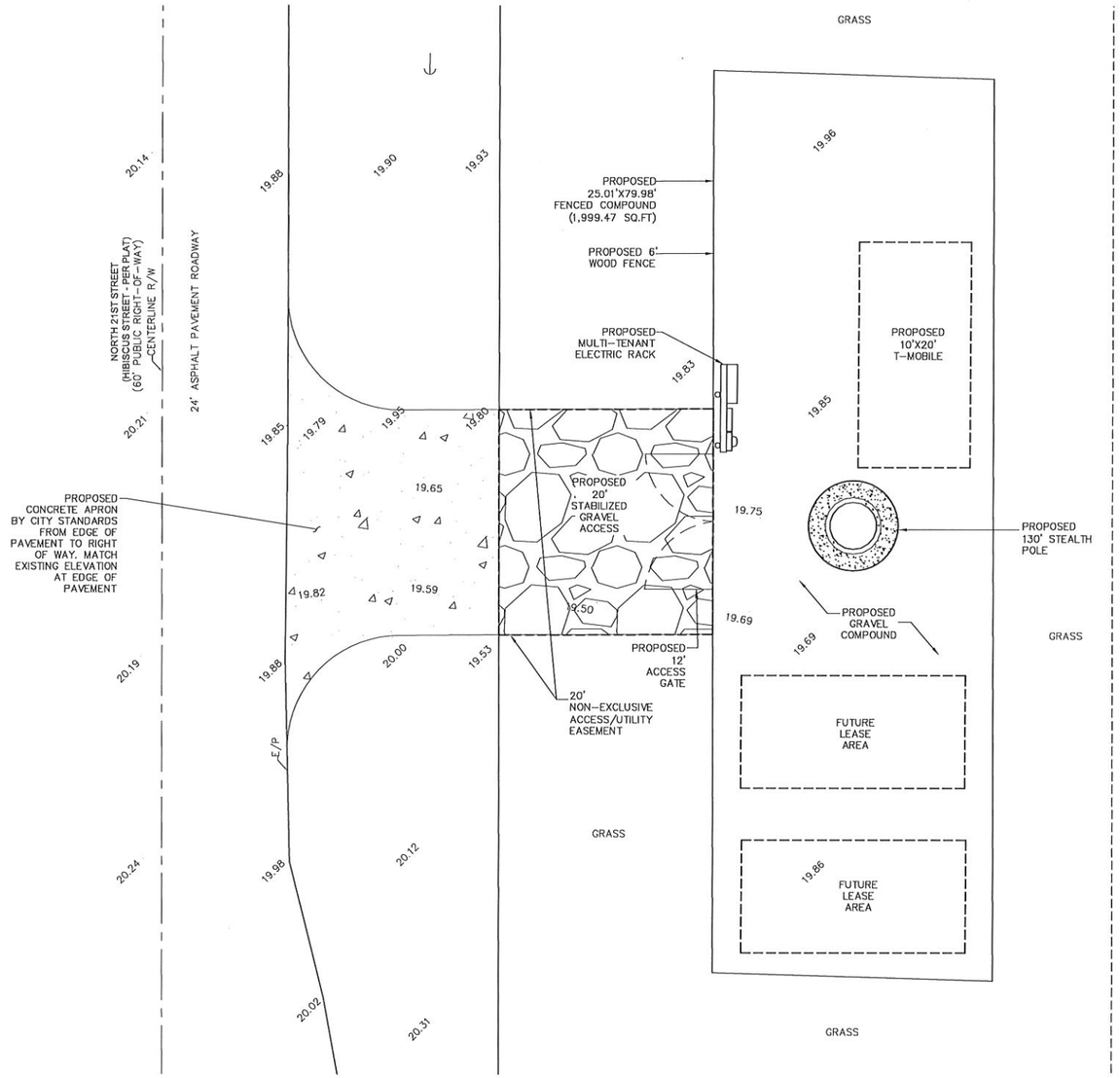
Sincerely,

Holly Valdez
V.P. Operations
RG Towers, LLC

2141 Alternate A1A South, Suite 440
Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com

FLOOD ZONE INFORMATION					
COMMUNITY NUMBER	PANEL NUMBER	SUFFIX	DATE OF FIRM	FIRM ZONE	BASE FLOOD ELEVATION
120286	0178	J	02/16/2012	X	N/A

19.83 EXISTING GRADES NAVD 88



DRAINAGE CALCULATIONS:

I. GENERAL SITE PLAN INFORMATION:

GRAVEL COMPOUND AREA: 1,999.47 SF
IMPERVIOUS AREA:
PROPOSED TOWER FOUNDATION = 50 SF
PROPOSED FUTURE EQUIPMENT SLABS: 450 SF
EQUIPMENT SLABS, 3 CARRIER @ 150 SF EACH

TOTAL IMPERVIOUS AREA: 500 SF

TOTAL PERVIOUS AREA: 1,499.47 SF

II. CALCULATE REQUIRED STORAGE RUNOFF:

1. 1" OF RUNOFF OVER TOTAL SITE
   Q = 1,999.47 SF X 1" X 1'/12"
   Q = 166.6 X 50% (ALLOWABLE REDUCTION)
   Q = 83.3 CF

III. STORAGE VOLUME PROVIDED:

No. 57 STONE COMPOUND, 4" LAYER, 1,999.47 SF COMPOUND. ASSUME 40% VOIDS RATIO.

RETENTION VOLUME PROVIDED = (1,999.47 SF – 500 SF) X 0.4 X 4"/12" =199.9 CF

RETENTION VOLUME PROVIDED = 199.9 CF

RETENTION VOLUME PROVIDED IS GREATER THAN REQUIRED VOLUME

NORTH

0 6 12

SCALE AS SHOWN

STORM DRAINAGE PLAN

NOTE:
ALL STORM DRAINAGE FACILITIES SHALL CONFORM TO CHAPTERS 17 AND 18 OF THE FORT PIERCE CODE OF ORDINANCES AND THE "STANDARD SPEDIFICATIONS" ADOPTED BY THE CITY COMMISION ON FEBRUARY 13, 1973.

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RG Towers, LLC
2141 Alternate A1A South, Suite 440
Jupiter, FL 33477

PROJECT INFORMATION:

FT PIERCE–ORANGE AVE
2006 ORANGE AVE
FORT PIERCE, FL 34950
ST LUCIE COUNTY

CURRENT ISSUE DATE:
SEPTEMBER 2018

ISSUED FOR:
SITE PLAN REVIEW

REV.:	DATE:	DESCRIPTION:

SEAL:
MARIA VICTORIA MARTIN
LICENSE
No. 72397
STATE OF FLORIDA
9/12/2018

PLANS PREPARED BY:
Kimley»Horn
© 2018 KIMLEY-HORN AND ASSOCIATES, INC.
1920 WEKIVA WAY, SUITE 200
WEST PALM BEACH, FLORIDA 33411
(561) 845-0665
FBPE CA00000596

PROVIDER:

DRAWN BY:	CHK.:	APV.:
MM	LF	MM

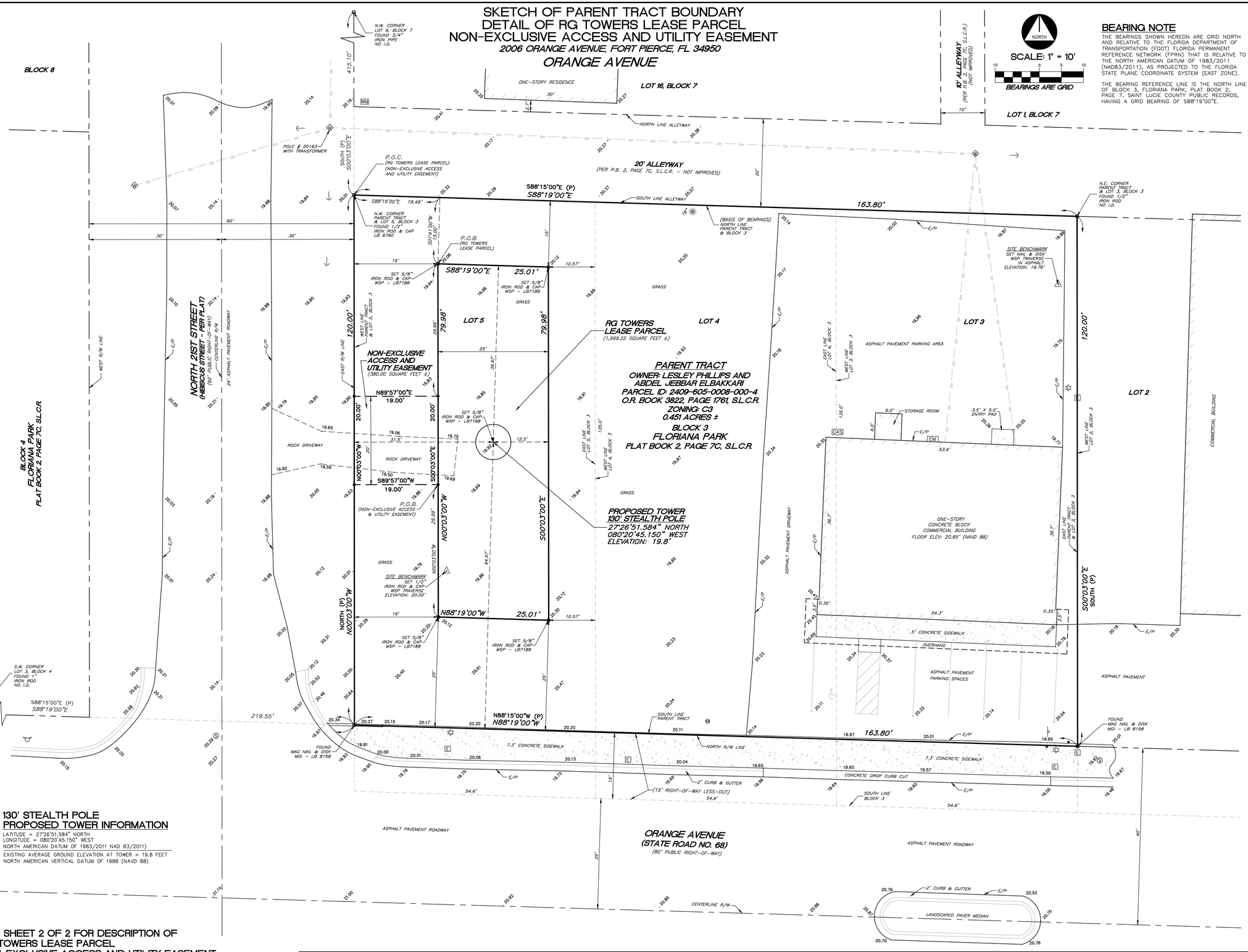
LICENSURE:
MARIA VICTORIA MARTIN PE 72397

SHEET TITLE:
STORM DRAINAGE PLAN

SHEET NUMBER: 3/3 REVISION:

KHA Job #:
144042047

SKETCH OF PARENT TRACT BOUNDARY
DETAIL OF RG TOWERS LEASE PARCEL
NON-EXCLUSIVE ACCESS AND UTILITY EASEMENT
2006 ORANGE AVENUE, FORT PIERCE, FL 34950



BEARING NOTE

THE BEARINGS SHOWN HEREON ARE GRID NORTH AND RELATIVE TO THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) FLORIDA PERMANENT REFERENCE NETWORK (FPRN) THAT IS RELATIVE TO THE NORTH AMERICAN DATUM OF 1983/2011 (NAD83/2011), AS PROJECTED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM (EAST ZONE).

THE BEARING REFERENCE LINE IS THE NORTH LINE OF BLOCK 3, FLORIANA PARK, PLAT BOOK 2, PAGE 7, SAINT LUCIE COUNTY PUBLIC RECORDS, HAVING A GRID BEARING OF S88°19'00"E.

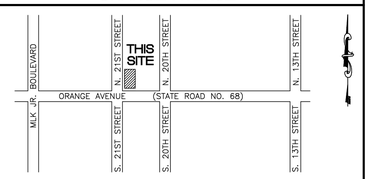
NORTH

SCALE: 1" = 10'

10 0 5 10

BEARINGS ARE GRID

ORANGE AVENUE



LOCATION SKETCH

SECTION 09–T35S–R40E
NOT TO SCALE

LEGEND

P.O.C.	POINT OF COMMENCEMENT	WM	WATER METER
P.O.B.	POINT OF BEGINNING	S	SANITARY MANHOLE
S.L.C.R.	ST. LUCIE COUNTY RECORDS		GUY ANCHOR WIRE
R/W	RIGHT-OF-WAY		SANITARY CLEANOUT
E/P	EDGE OF PAVEMENT		FIRE HYDRANT
O.R.	OFFICIAL RECORD		BOLLARD
(P)	PLAT	E	ELECTRIC SERVICE
19.75	SPOT ELEVATION		LAMP POST
	PINE TREE	EM	ELECTRIC METER
	HANDICAP PARKING	GAS	GAS METER
	WOOD UTILITY POLE		STORE SIGN
OH OH	OVERHEAD UTILITY		

DESCRIPTION OF PARENT TRACT

(PER OFFICIAL RECORD BOOK 3822, PAGE 1761 OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA)

LOTS 3, 4 AND 5, LESS THE SOUTH 15 FEET THEREOF, BLOCK 3 OF FLORIANA PARK, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 2, PAGE 7C, OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA.

REPORT OF BOUNDARY AND TOPOGRAPHIC SURVEY

1. THE PARENT TRACT SHOWN HEREON IS BASED ON A SEARCH CONDUCTED BY WSP CONSULTANTS, INC. OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, THE REPORT OF TITLE PREPARED BY U.S. TITLE SOLUTIONS, DATED OCTOBER 14, 2017, FILE NO. 58394–FL1710–5030.

2. UNLESS OTHERWISE NOTED HEREON RECORD AND MEASURED VALUES (SHOWN) ARE IN SUBSTANTIAL AGREEMENT.

3. THE PURPOSE OF THIS SURVEY IS TO LOCATE THE EXISTING FEATURES WITHIN THE PARENT TRACT FOR THE FUTURE INSTALLATION OF A COMMUNICATIONS FACILITY.

4. THE EXPECTED USE OF THE SURVEY AND MAP IS FOR THE PREPARATION OF LEASE AGREEMENTS, DESIGN PLANS, PERMITTING SETS AND CONSTRUCTION OF A MONOPOLE TOWER ON THE PARENT TRACT.

5. THIS SURVEY IS CLASSIFIED AS COMMERCIAL/HIGH RISK AND EXCEEDS THE MINIMUM RELATIVE DISTANCE ACCURACY OF 1 FOOT IN 10,000 FEET AS REQUIRED BY THE FLORIDA STANDARDS OF PRACTICE (5J–17.051 THROUGH 5J–17.053 F.A.C.). THE ACCURACY OBTAINED BY MEASUREMENT AND CALCULATION OF A CLOSED GEOMETRIC FIGURE WAS FOUND TO EXCEED THIS REQUIREMENT.

6. ALL MEASUREMENTS ARE IN ACCORDANCE WITH THE UNITED STATES STANDARD, IN FEET.

7. THE HORIZONTAL FEATURES SHOWN HEREON ARE PLOTTED TO WITHIN 1/20 OF THE MAP SCALE.

8. HORIZONTAL AND VERTICAL DATA SHOWN HEREON WAS OBTAINED UTILIZING A "LEICA TCRP1205+" TOTAL STATION AND "ALLEGRO MX CARLSON" DATA COLLECTION SYSTEM.

9. ELEVATIONS OF WELL–IDENTIFIED FEATURES CONTAINED IN THIS SURVEY AND MAP HAVE BEEN MEASURED TO AN ESTIMATED VERTICAL ACCURACY OF 0.1'.

10. HORIZONTAL FEATURE LOCATION IS TO THE CENTER OF THE SYMBOL AND MAY BE ENLARGED FOR CLARITY.

11. UNDERGROUND FOUNDATIONS AND/OR UTILITIES HAVE NOT BEEN LOCATED.

12. FLOOD ZONE INFORMATION SHOWN HEREON WAS OBTAINED FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), FLOOD INSURANCE RATE MAP (FIRM).

13. THE ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE REFERENCED TO THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) FLORIDA PERMANENT REFERENCE NETWORK (FPRN). THE MEASUREMENTS WERE OBTAINED UTILIZING A "HEMISPHERE S320 GNSS" RTK GPS RECEIVER.

14. THE VALUES FOR THE LATITUDE, LONGITUDE AND ELEVATIONS SHOWN HEREON ARE WITHIN THE ALLOWABLE TOLERANCES FOR THE FEDERAL AVIATION ADMINISTRATION 1–A LETTER.

15. THE LATITUDE AND LONGITUDE SHOWN HEREON WERE OBTAINED UTILIZING THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) FLORIDA PERMANENT REFERENCE NETWORK (FPRN) THAT IS RELATIVE TO THE NORTH AMERICAN DATUM OF 1983/2011 (NAD83/2011), AS PROJECTED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM (EAST ZONE). THE MEASUREMENTS WERE OBTAINED UTILIZING A "HEMISPHERE S320 GNSS" RTK GPS RECEIVER.

16. THE RG TOWERS LEASE PARCEL SHOWN IN THIS SURVEY LIES ENTIRELY WITHIN THE DESCRIBED PARENT TRACT.

17. THE SURVEYOR HAS REVIEWED THE REPORT OF TITLE PREPARED BY U.S. TITLE SOLUTIONS, DATED OCTOBER 14, 2017, FILE NO. 58394–FL1710–5030. ALL PLOTTABLE MATTERS OF RECORD IDENTIFIED IN THE REPORT OF TITLE THAT ARE PERTINENT TO THE RG TOWERS LEASE PARCEL AND ITS ACCESS AND UTILITY EASEMENT, IF APPLICABLE, HAVE BEEN SHOWN OR NOTED ON THIS SURVEY. THE SURVEYOR RELIED SOLELY UPON THAT REPORT OF TITLE WITH RESPECT TO EASEMENTS, RIGHTS–OF–WAY, SETBACK LINES AGREEMENTS, RESERVATIONS AND OTHER SIMILAR MATTERS.

18. BASED UPON THE REPORT OF TITLE, THE RG TOWERS LEASE PARCEL HAS ACCESS TO N. 21ST STREET, A PUBLIC RIGHT–OF–WAY, BY MEANS OF THE ACCESS AND UTILITY EASEMENT DEPICTED HEREON. THE EASEMENT LIES ENTIRELY WITHIN THE LANDS OF THE OWNER(S) OF THE PARCEL DESCRIBED IN SAID REPORT OF TITLE AND NO EASEMENTS OR RIGHTS OF OTHER THIRD PARTIES DISCLOSED BY THAT REPORT OF TITLE WOULD PRECLUDE ACCESS OVER THE PARENT TRACT FROM THE RG TOWERS LEASE PARCEL TO THAT PUBLIC RIGHT–OF–WAY.

19. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.

20. SURVEY DATE: FIELD SURVEY WAS COMPETED OCTOBER 10, 2017, WHICH IS THE DATE OF DATA ACQUISITION.

CERTIFIED TO: RG TOWERS, LLC

CERTIFICATE

I, WILLIAM S. PAYNE, DO HEREBY STATE THAT THIS MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY WAS PERFORMED UNDER MY DIRECT SUPERVISION AND IS ACCURATE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER STATE THAT THIS MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY WAS COMPLETED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR SURVEYING AND MAPPING STATED IN RULES 5J–17.051 THROUGH 5J–17.053 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO FLORIDA STATUTES CHAPTER 472.027.

WILLIAM S. PAYNE
PROFESSIONAL SURVEYOR AND MAPPER #LS 5685
WSP CONSULTANTS, INC. #LB 7188
STATE OF FLORIDA

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER
WILLIAM S. PAYNE
LS5685

130' STEALTH POLE
PROPOSED TOWER INFORMATION

LATITUDE = 27°26'51.584" NORTH
LONGITUDE = 080°20'45.150" WEST
NORTH AMERICAN DATUM OF 1983/2011 NAD 83/2011)

EXISTING AVERAGE GROUND ELEVATION AT TOWER = 19.8 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

SEE SHEET 2 OF 2 FOR DESCRIPTION OF RG TOWERS LEASE PARCEL
NON-EXCLUSIVE ACCESS AND UTILITY EASEMENT
SEE SHEET 2 OF 2 FOR REVIEW OF TITLE SEARCH REPORT

FLOOD ZONE INFORMATION

COMMUNITY NUMBER	PANEL NUMBER	SUFFIX	DATE OF FIRM	FIRM ZONE	BASE FLOOD ELEVATION
120286	0178	J	02/16/2012	X	N/A

FIELD SURVEY DATE: 10/10/2017					
DRAWN: WSP					
CHECKED: WSP	2	06/25/2018	UPDATE TOWER HEIGHT / TYPE AND REVISE LEASE / EASEMENT DESCRIPTION	WSP
MANAGER: WSP	1	01/23/2018	REVISE SURVEY TO ADDRESS ST. LUCIE COUNTY SURVEYOR COMMENTS	WSP
DWG FILE: 17–1404.DWG	No.	DATE	REVISION	BY

WSP Consultants, Inc.
SURVEYORS & MAPPERS
18815 ANNELIS DRIVE, LUTZ, FL 33548
PHONE (813) 909-2420
PROFESSIONAL SURVEYING & MAPPING CERTIFICATE OF AUTHORIZATION: LB 7188, STATE OF FLORIDA

MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY
ORANGE AVENUE
PREPARED FOR:
RG Towers, LLC
LOCATED IN:
ST. LUCIE COUNTY, FLORIDA

PROJECT NO: 17–1404

SHEET NO: 1 OF 2

DESCRIPTION OF RG TOWERS LEASE PARCEL

A PARCEL OF LAND BEING A PORTION OF LOT 5, BLOCK 3, FLORIANA PARK, AS RECORDED IN PLAT BOOK 2, PAGE 7C OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, SAID PARCEL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHWEST CORNER OF SAID LOT 5, BLOCK 3;

THENCE ON A GRID BEARING OF S88°19'00"E ALONG THE NORTH LINE OF LOT 5, BLOCK 3, A DISTANCE OF 19.46 FEET;

THENCE S01°41'00"W A DISTANCE OF 15.00 FEET TO A POINT ON A LINE 15.00 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF SAID LOT 5, BLOCK 3, SAID POINT ALSO BEING THE POINT OF BEGINNING;

THENCE S88°19'00"E ALONG SAID PARALLEL LINE, A DISTANCE OF 25.01 FEET;

THENCE S00°03'00"E A DISTANCE OF 79.98 FEET TO A POINT ON A LINE 25.00 FEET NORTH OF AND PARALLEL WITH THE NORTH RIGHT-OF-WAY LINE OF ORANGE AVENUE (80 FOOT PUBLIC RIGHT-OF-WAY);

THENCE N88°19'00"W ALONG SAID PARALLEL LINE, A DISTANCE OF 25.01 FEET TO A POINT ON A LINE 19.00 FEET EAST OF AND PARALLEL WITH THE WEST LINE OF SAID LOT 5, BLOCK 3;

THENCE N00°03'00"W ALONG SAID PARALLEL LINE, A DISTANCE OF 79.98 FEET TO THE POINT OF BEGINNING;

SAID PARCEL OF LAND SITUATE WITHIN ST. LUCIE COUNTY, FLORIDA CONTAINING 1,999.22 SQUARE FEET MORE OR LESS.

DESCRIPTION OF NON-EXCLUSIVE ACCESS AND UTILITY EASEMENT

A PARCEL OF LAND BEING A PORTION OF LOT 5, BLOCK 3, FLORIANA PARK, AS RECORDED IN PLAT BOOK 2, PAGE 7C OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, SAID PARCEL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHWEST CORNER OF SAID LOT 5, BLOCK 3;

THENCE ON A GRID BEARING OF S88°19'00"E ALONG THE NORTH LINE OF LOT 5, BLOCK 3, A DISTANCE OF 19.46 FEET;

THENCE S01°41'00"W A DISTANCE OF 15.00 FEET TO A POINT ON A LINE 15.00 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF SAID LOT 5, BLOCK 3;

THENCE S88°19'00"E ALONG SAID PARALLEL LINE, A DISTANCE OF 25.01 FEET;

THENCE S00°03'00"E A DISTANCE OF 79.98 FEET TO A POINT ON A LINE 25.00 FEET NORTH OF AND PARALLEL WITH THE NORTH RIGHT-OF-WAY LINE OF ORANGE AVENUE (80 FOOT PUBLIC RIGHT-OF-WAY);

THENCE N88°19'00"W ALONG SAID PARALLEL LINE, A DISTANCE OF 25.01 FEET TO A POINT ON A LINE 19.00 FEET EAST OF AND PARALLEL WITH THE WEST LINE OF SAID LOT 5, BLOCK 3;

THENCE N00°03'00"W ALONG SAID PARALLEL LINE, A DISTANCE OF 29.99 FEET TO THE POINT OF BEGINNING;

THENCE S89°57'00"W A DISTANCE OF 19.00 FEET TO A POINT ON THE WEST LINE OF SAID LOT 5, BLOCK 3, SAID POINT ALSO BEING ON THE EAST RIGHT-OF-WAY LINE OF NORTH 21ST STREET (60 FOOT PUBLIC RIGHT-OF-WAY);

THENCE N00°03'00"W ALONG SAID WEST LINE AND EAST RIGHT-OF-WAY LINE, A DISTANCE OF 20.00 FEET;

THENCE N89°57'00"E A DISTANCE OF 19.00 FEET;

THENCE S00°03'00"E A DISTANCE OF 20.00 FEET TO THE POINT OF BEGINNING;

SAID PARCEL OF LAND SITUATE WITHIN ST. LUCIE COUNTY, FLORIDA CONTAINING 380.00 SQUARE FEET MORE OR LESS.

REVIEW OF TITLE SEARCH REPORT

I HAVE REVIEWED THE REPORT OF TITLE PREPARED BY U.S. TITLE SOLUTIONS, DATED OCTOBER 14, 2017, FILE NO. 58394-FL1710-5030, AND FIND AS FOLLOWS WITH RESPECT TO MATTERS OF RECORDS LISTED IN SAID REPORT:

1. TAXES, TAX LIENS, TAX SALES, WATER RATES, SEWER AND ASSESSMENTS SET FORTH IN SCHEDULE HEREIN.

2. MORTGAGES RETURNED HEREIN. (-3-). SEE SEPARATE MORTGAGE SCHEDULE.

3. ANY STATE OF FACTS WHICH AN ACCURATE SURVEY MIGHT SHOW OR SURVEY EXCEPTIONS SET FORTH HEREIN.

4. RIGHTS OF TENANTS OR PERSON IN POSSESSION.

(JUDGMENTS, LIENS AND UCC)
5. NONE WITHIN PERIOD SEARCHED

(COVENANTS/RESTRICTIONS)
6. NONE WITHIN PERIOD SEARCHED

(EASEMENTS AND RIGHTS OF WAY)
7. NONE WITHIN PERIOD SEARCHED

(OTHER FILED DOCUMENTS)
8. PLAT OF FORT PIERCE FARMS IN BOOK 2, PAGE 7-A.

- PARENT TRACT DOES NOT LIE WITHIN SAID PLAT.

9. PLAT OF OAKLAND PARK IN BOOK 2, PAGE 7-B.

- PARENT TRACT DOES NOT LIE WITHIN SAID PLAT.

10. PLAT OF FLORIANA PARK IN BOOK 2, PAGE 7-C.

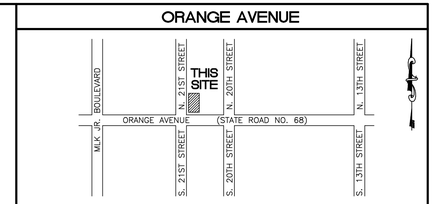
- BLANKET IN NATURE - PARENT TRACT LIES COMPLETELY WITHIN SAID PLAT.
- THERE ARE NO EASEMENTS, RESTRICTIONS AND / OR SETBACKS DEPICTED ON SAID PLAT, NOTHING TO PLOT.

11. CERTIFICATION OF TRUST BETWEEN JOHN C. WALKER TRUST DATED JULY 26, 1994 AND JOHN C. WALKER, TRUSTEE OF THE JOHN C. WALKER TRUST DATED JULY 26, 1994 DATED 12/24/2015 RECORDED 12/31/2015 IN BOOK 3822, PAGE 1764.

- BLANKET IN NATURE - DESCRIBES PARENT TRACT.
- SAID TRUST IS NO LONGER THE OWNER OF THE PARENT TRACT.

12. MEMORANDUM OF WIRELESS COMMUNICATIONS FACILITY LEASE BETWEEN LESLEY PHILLIPS & ABDEL JEBBAR ELBAKARRI, A MARRIED COUPLE AND RG TOWERS, LLC, A DELAWARE LIMITED LIABILITY COMPANY DATED 9/27/2017 RECORDED 10/2/2017 IN BOOK 4047, PAGE 36.

- BLANKET IN NATURE - DESCRIBES PARENT TRACT.



LOCATION SKETCH

SECTION 09-T35S-R40E
NOT TO SCALE

130' STEALTH POLE
PROPOSED TOWER INFORMATION

LATITUDE = 27°26'51.584" NORTH
LONGITUDE = 080°20'45.150" WEST
NORTH AMERICAN DATUM OF 1983/2011 NAD 83/2011)

EXISTING AVERAGE GROUND ELEVATION AT TOWER = 19.8 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

SEE SHEET 1 OF 2 FOR DETAIL OF
RG TOWERS LEASE PARCEL
NON-EXCLUSIVE ACCESS AND UTILITY EASEMENT

FLOOD ZONE INFORMATION

COMMUNITY NUMBER	PANEL NUMBER	SUFFIX	DATE OF FIRM	FIRM ZONE	BASE FLOOD ELEVATION
120286	0178	J	02/16/2012	X	N/A

FIELD SURVEY DATE: 10/10/2017					
DRAWN: WSP					
CHECKED: WSP	2	06/25/2018	UPDATE TOWER HEIGHT / TYPE AND REVISE LEASE / EASEMENT DESCRIPTION	WSP
MANAGER: WSP	1	01/23/2018	REVISE SURVEY TO ADDRESS ST. LUCIE COUNTY SURVEYOR COMMENTS	WSP
DWG FILE: 17-1404.DWG	No.	DATE	REVISION	BY

WSP Consultants, Inc.
SURVEYORS & MAPPERS
18815 ANNELIS DRIVE, LUTZ, FL 33548
PHONE (813) 909-2420
PROFESSIONAL SURVEYING & MAPPING CERTIFICATE OF AUTHORIZATION:
LB 7188, STATE OF FLORIDA

MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY
ORANGE AVENUE
PREPARED FOR:
RG Towers, LLC
LOCATED IN:
ST. LUCIE COUNTY, FLORIDA

PROJECT NO: 17-1404

SHEET NO: 2 OF 2

ORANGE AVENUE

PARENT TRACT
(PER OFFICIAL RECORD BOOK 3822, PAGE 1761 OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA)

LOTS 3, 4 AND 5, LESS THE SOUTH 15 FEET THEREOF, BLOCK 3 OF FLORIANA PARK, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 2, PAGE 7C, OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA.

RG TOWERS LEASE PARCEL
A PARCEL OF LAND BEING A PORTION OF LOT 5, BLOCK 3, FLORIANA PARK, AS RECORDED IN PLAT BOOK 2, PAGE 7C OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, SAID PARCEL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHWEST CORNER OF SAID LOT 5, BLOCK 3;

THENCE ON A GRID BEARING OF S88°19'00"E ALONG THE NORTH LINE OF LOT 5, BLOCK 3, A DISTANCE OF 19.46 FEET;

THENCE S01°41'00"W A DISTANCE OF 15.00 FEET TO A POINT ON A LINE 15.00 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF SAID LOT 5, BLOCK 3, SAID POINT ALSO BEING THE POINT OF BEGINNING;

THENCE S88°19'00"E ALONG SAID PARALLEL LINE, A DISTANCE OF 25.01 FEET;

THENCE S00°03'00"E A DISTANCE OF 79.98 FEET TO A POINT ON A LINE 25.00 FEET NORTH OF AND PARALLEL WITH THE NORTH RIGHT-OF-WAY LINE OF ORANGE AVENUE (80 FOOT PUBLIC RIGHT-OF-WAY);

THENCE N88°19'00"W ALONG SAID PARALLEL LINE, A DISTANCE OF 25.01 FEET TO A POINT ON A LINE 19.00 FEET EAST OF AND PARALLEL WITH THE WEST LINE OF SAID LOT 5, BLOCK 3;

THENCE N00°03'00"W ALONG SAID PARALLEL LINE, A DISTANCE OF 79.98 FEET TO THE POINT OF BEGINNING;

SAID PARCEL OF LAND SITUATE WITHIN ST. LUCIE COUNTY, FLORIDA CONTAINING 1,999.22 SQUARE FEET MORE OR LESS.

NON-EXCLUSIVE ACCESS AND UTILITY EASEMENT
A PARCEL OF LAND BEING A PORTION OF LOT 5, BLOCK 3, FLORIANA PARK, AS RECORDED IN PLAT BOOK 2, PAGE 7C OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA, SAID PARCEL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHWEST CORNER OF SAID LOT 5, BLOCK 3;

THENCE ON A GRID BEARING OF S88°19'00"E ALONG THE NORTH LINE OF LOT 5, BLOCK 3, A DISTANCE OF 19.46 FEET;

THENCE S01°41'00"W A DISTANCE OF 15.00 FEET TO A POINT ON A LINE 15.00 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF SAID LOT 5, BLOCK 3;

THENCE S88°19'00"E ALONG SAID PARALLEL LINE, A DISTANCE OF 25.01 FEET;

THENCE S00°03'00"E A DISTANCE OF 79.98 FEET TO A POINT ON A LINE 25.00 FEET NORTH OF AND PARALLEL WITH THE NORTH RIGHT-OF-WAY LINE OF ORANGE AVENUE (80 FOOT PUBLIC RIGHT-OF-WAY);

THENCE N88°19'00"W ALONG SAID PARALLEL LINE, A DISTANCE OF 25.01 FEET TO A POINT ON A LINE 19.00 FEET EAST OF AND PARALLEL WITH THE WEST LINE OF SAID LOT 5, BLOCK 3;

THENCE N00°03'00"W ALONG SAID PARALLEL LINE, A DISTANCE OF 29.99 FEET TO THE POINT OF BEGINNING;

THENCE S89°57'00"W A DISTANCE OF 19.00 FEET TO A POINT ON THE WEST LINE OF SAID LOT 5, BLOCK 3, SAID POINT ALSO BEING ON THE EAST RIGHT-OF-WAY LINE OF NORTH 21ST STREET (60 FOOT PUBLIC RIGHT-OF-WAY);

THENCE N00°03'00"W ALONG SAID WEST LINE AND EAST RIGHT-OF-WAY LINE, A DISTANCE OF 20.00 FEET;

THENCE N89°57'00"E A DISTANCE OF 19.00 FEET;

THENCE S00°03'00"E A DISTANCE OF 20.00 FEET TO THE POINT OF BEGINNING;

SAID PARCEL OF LAND SITUATE WITHIN ST. LUCIE COUNTY, FLORIDA CONTAINING 380.00 SQUARE FEET MORE OR LESS.

RG TOWERS, LLC.

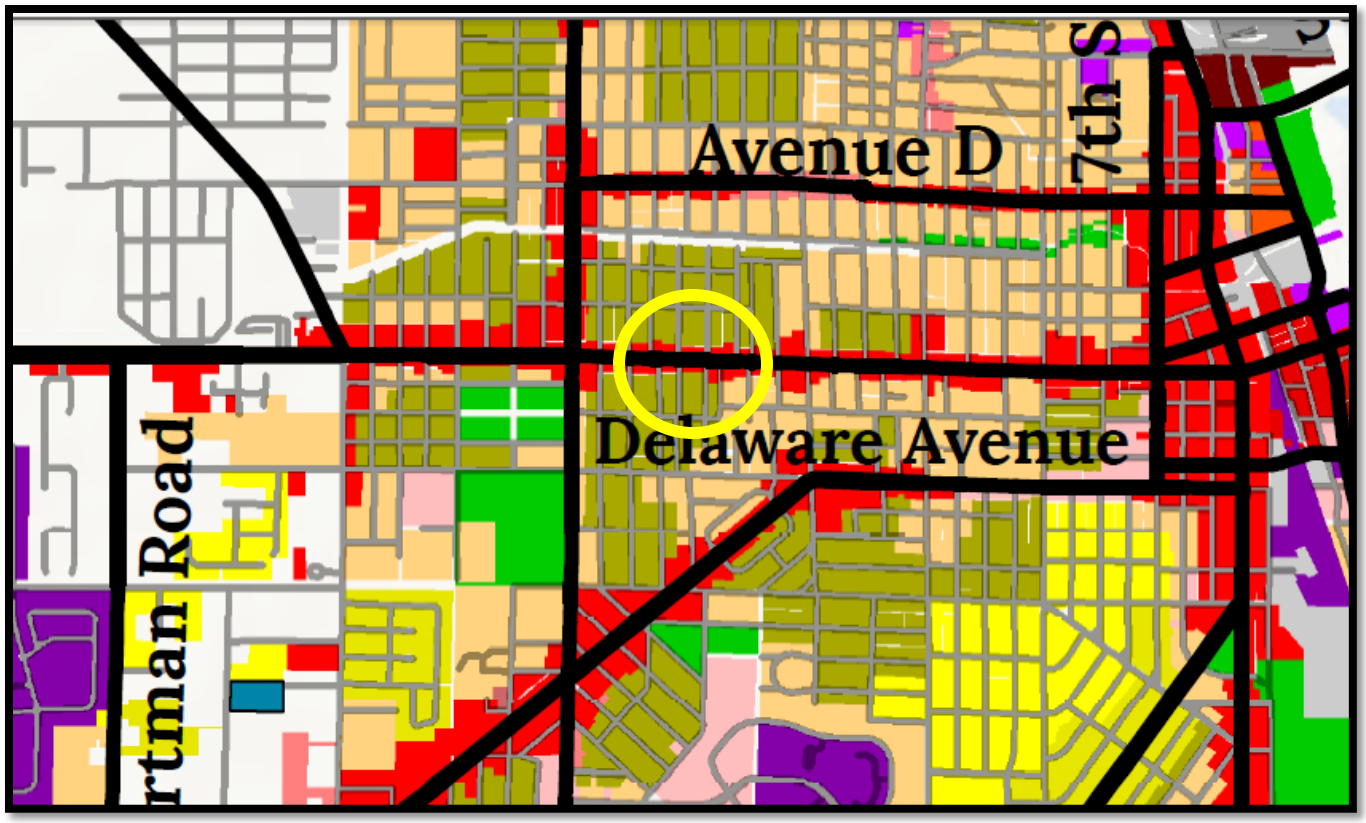
Section 22- 58.d.2

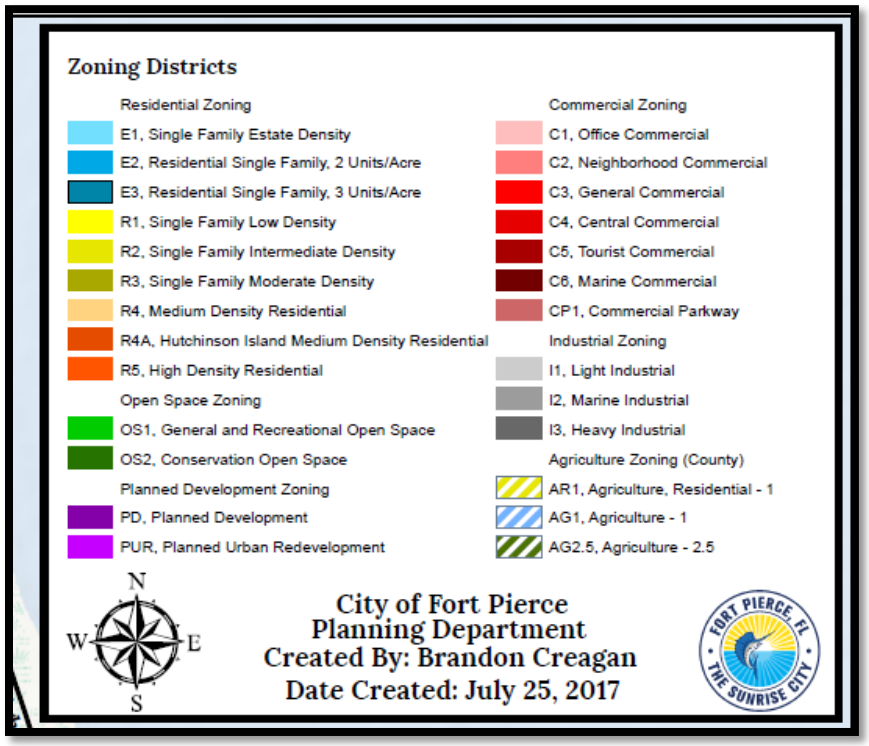
(2)

A general location map which shows the approximate location of streets, street signals and vehicular access points to streets along streets abutting the proposed development, rights-of-way, zoning districts, existing land uses and important physical features (including drainage ways) within five hundred (500) feet of property proposed for development.



RG TOWERS, LLC.





RG Towers, LLC

Ft Pierce Planning and Zoning
100 N. U.S. Highway 1
Fort Pierce, FL 34950

RE: RG Towers – Ft Pierce Orange Ave Character and Intended Use Statement

RG Towers, LLC is applying for approval to build a 130' stealth communications tower at the location shown below.

Tower Height/Type	130' Stealth communications tower
Address	2006 Orange Ave, Ft Pierce FL 34950
Coordinates	Approximately 27.447636, -80.345960

The parcel is currently owned by Lesley Phillips and Abdel Jebbar Elbakkari. RG Towers, LLC entered into a Lease Agreement dated 9/27/17.

The character of the parcel is completely commercial as seen in the attached photographs. The intended use will be the development of a 130' communication tower with a fenced compound to enclose the auxiliary equipment. The fenced compound will be landscaped to exceed the code. This is to be an unmanned facility with only semiannual visits for maintenance outside of initial construction.

Please let me know if you have any questions.

Sincerely,

Scott Richards
RG Towers, LLC
CEO

2141 Alternate A1A South, Suite 440
Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com

Michelle Franklin, CFA -- Saint Lucie County Property Appraiser -- All rights reserved.

Property Identification

Site Address: 2006 ORANGE AVE
Sec/Town/Range: 09/35S/40E
Map ID: 24/09N
Zoning: C3

Parcel ID: 2409-605-0008-000-4
Account #: 22018
Use Type: 1100
Jurisdiction: Fort Pierce



Ownership

Lesley Phillips
Abdel Jebbar Elbakkari
2006 Orange AVE
Fort Pierce, FL 34950

Legal Description

FLORIANA PARK BLK 3 LOTS 3, 4 AND 5-LESS S 15 FT FOR ST- (OR 3822-1761)

Total Areas

Finished/Under Air (SF):	2,160
Gross Area (SF):	2,430
Land Size (acres):	0.45
Land Size (SF):	19,656

Current Values

Just/Market Value:	$84,600
Assessed Value:	$84,600
Exemptions:	$0
Taxable Value:	$84,600

Taxes for this parcel: SLC Tax Collector's Office
Download TRIM for this parcel: Download PDF

Sale History

Date	Book/Page	Sale Code	Deed	Grantor	Price
Dec 24, 2015	3822 / 1761	0002	WD	Walker (TR) John C	$83,600
Nov 5, 2015	3805 / 1827	0111	CT	LeDain Marie M	$100
Jun 25, 2014	3652 / 2867	0137	WD	Walker (TR),John C	$120,000
Jun 3, 2014	3638 / 1302	0111	CT	LeDain,Marie M	$60,300
May 25, 2005	2255 / 2189	XX01	QC	Blanc,Jean C	$100

Apr 30, 2004	1971 / 3007	XX00	WD	Dunn Brothers Inc,	$120,000
Nov 1, 1981	0366 / 2466	XX00	CV		$125,000

Building Information (1 of 1)

Finished Area: 2,160 SF

Gross Total Area: 2,430 SF

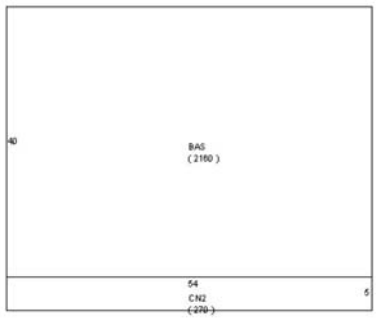
Exterior Data

View:	Roof Cover: Tar & Gravel	Roof Structure: Flat/Shed
Building Type: STRL	Year Built: 1957	Frame:
Grade: Y_C	Effective Year: 1970	Primary Wall: Conc Block
Story Height: 1 Story	No. Units: 2	Secondary Wall:

Interior Data

Bedrooms: 0	Electric: MAXIMUM	Primary Int Wall:
Full Baths: 0	Heat Type: FrcdHotAir	Avg Hgt/Floor: 0
Half Baths: 0	Heat Fuel: ELEC	Primary Floors: Vinyl Tiles
A/C %: 100%	Heated %: 100%	Sprinkled %: 0%





Sketch Area Legend

Sub Area	Description	Area	Fin. Area	Perimeter
BAS	BASE AREA	2160	2160	188
CN2	CANOPY	270	0	118

Special Features and Yard Items

Type	Qty	Units	Year Blt
CEMENT CURB	1	42	1970
ASP2 LOW	1	5409	1970

Current Year Values

Current Values Breakdown

Building:	$40,400
Land:	$44,200
Just/Market:	$84,600
Ag Credit:	$0
Save Our Homes or 10% Cap:	$0
Assessed:	$84,600
Exemption(s):	$0
Taxable:	$84,600

Current Year Exemption Value Breakdown

Tax Year	Grant Year	Code	Description	Amount

Current Year Special Assessment Breakdown

Start Year	AssessCode	Units	Description	Amount
1999	0041	4.9	Fort Pierce Stormwater Charge	$264.60

This does not necessarily represent the total Special Assessements that could be charged against this property. The total amount charged for special assessments is reflected on the most current tax statement and information is available with the SLC Tax Collector's Office.

Historical Values

Year	Just/Market	Assessed	Exemptions	Taxable
2017	$84,600	$84,600	$0	$84,600
2016	$84,300	$84,300	$0	$84,300
2015	$105,200	$105,200	$0	$105,200

Permits

Number	Issue Date	Description	Amount	Fee
BP2006-90	Jan 25, 2006	Roof	$5,000	$50
F900001019	Aug 7, 1990	Roof	$900	$900
0900025541	Nov 16, 2007	Sprinkler System	$0	$50
BP11-1029	Jun 9, 2011	Electric	$104	$155
BP16-1588	Jun 23, 2016	Alterations/Remodeling	$4,000	$0

Notice: This does not necessarily represent all the permits for this property.
Click the following link to check for additional permit data in Fort Pierce

This information is believed to be correct at this time but it is subject to change and is not warranted.
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JOSEPH E. SMITH, CLERK OF THE CIRCUIT COURT - SAINT LUCIE COUNTY
FILE # 4145713 OR BOOK 3822 PAGE 1761, Recorded 12/31/2015 at 09:00
Doc Tax: $585.20

Prepared by
Kimberly Douglas, an employee of
First American Title Insurance Company
729 South Federal Highway, Ste 103
Stuart, Florida 34994
(772)286-0850

Return to: Grantee

File No.: 2071-2258822
Consideration: $83,600.00

WARRANTY DEED

This indenture made on **December 30, 2015** A.D., by

John C. Walker, as Trustee of the John C. Walker Trust dated July 26, 1994

whose address is: **364 River Edge Road, Jupiter, FL 33477**
hereinafter called the "grantor", to

Lesley Phillips and Abdel Jebbar ElBakkari, wife and husband

whose address is: **2006 Orange Ave, Fort Pierce, FL 34950**
hereinafter called the "grantee":
(Which terms "Grantor" and "Grantee" shall include singular or plural, corporation or individual, and either sex, and shall include heirs, legal representatives, successors and assigns of the same)

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, ($10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in **St. Lucie** County, **Florida**, to-wit:

Lots 3, 4 and 5 less the South 15 feet thereof, Block 3 of FLORIANA PARK, according to the Plat thereof as recorded in Plat Book 2, page 7C, of the Public Records of St. Lucie County, Florida.

Parcel Identification Number: **2409-605-0008-000/4**

Subject to all reservations, covenants, conditions, restrictions and easements of record and to all applicable zoning ordinances and/or restrictions imposed by governmental authorities, if any.

TOGETHER WITH all singular the tenements, hereditaments and appurtenances belonging to or in anywise appertaining to that real property.

AND the party of the first part does covenant to and with the party of the second part, their heirs and assigns, that in all things preliminary to and in and about the sale and this conveyance the Laws of Florida have been followed and complied with in all respects..

In Witness Whereof, the parties of the first part have hereunto set their hand(s) and seal(s) the day and year first above written.

John C. Walker, individually and as Trustee of the
John C. Walker Trust dated July 26, 1994

Signed, sealed and delivered in the presence of these witnesses:

Witness Signature

Print Name: Kim Douglas

Witness Signature

Print Name: Toni-Lynn Turner

State of **Florida**

County of **Martin**

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED before me on **December** 24th, **2015**, by **John C. Walker, a single man, individually and as Trustee of the John C. Walker Trust dated July 26, 1994** who is/are personally known to me or has/have produced a valid driver's license as identification.

Kimberly A. Santoro
Notary Public

Kimberly A. Santoro
(Printed Name)

My Commission expires: _____

KIMBERLY A. SANTORO
Commission # EE 201330
My Commission Expires
June 25, 2016

{Notorial Seal}

Bond # 1066222

Tower Removal Bond

KNOW ALL PERSONS BY THESE PRESENTS: That we RG Towers, LLC, a corporation duly organized under the laws of the State of DE, as Principal and The Hanover Insurance Company, as Surety, are held and firmly bound unto City of Fort Pierce, Florida as Obligee, in the amount of Eight Thousand Dollars and 00/100 ($ 8,000.00)for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents, the liability of the Surety being limited to the penal sum of this bond regardless of the number of years the bond is in effect.

Whereas, the Principal has obtained written approval from the Obligee for the construction and erection of a wireless communication tower located at 2006 Orange Ave, Fort Pierce, Florida 34950, Tax Parcel Number 2409-605-0008-000-4. Now, therefore if the principal well and truly complies with the maintenance, replacement, removal or relocation of the tower from the aforementioned address within 30 days upon receipt of written notice from the Obligee, to remove, replace, modify, or relocate the tower from said premises then this obligation is void otherwise to remain in full force and effect unless cancelled as set forth below:

1. It shall be a condition precedent to any right of recovery hereunder that, in the event of any default on the part of the Principal, a written statement of the particular facts of such default shall be, within Thirty (30) days, delivered to Surety at it Home Office located at 440 Lincoln Street , Worcester, MA 01653 by registered mail to the Surety and the Surety shall not be obligated to perform Principals obligation until sixty (60) days after Surety's receipt of such statement.
2. The Surety may cancel this bond at any time by giving Thirty (30) days notice, by registered mail or overnight courier service to Planning Department, 100 North US 1, PO Box 1480, Fort Pierce, FL 34950 (Obligee). Such termination shall not affect liability incurred under this obligation prior to the effective date of such termination.
3. No action, suit, or proceeding shall be maintained against the Surety on this bond unless the action is brought within twelve (12) months of the cancellation date of this bond.
4. Regardless of the number of years this bond may be renewed; in no event shall the liability of the Surety exceed the penal sum of this bond.
5. It is understood that the non-renewal of this bond by the Surety, or failure or inability of the Principal to file a replacement bond shall not constitute a loss recoverable by the Obligee under this bond.

Signed, sealed, and witnessed this 26th day of January, 2018.

Holly Valdez
Witness

RG Towers, LLC
Principal

By: S Roh

The Hanover Insurance Company
Surety

By: Richard A. Montgomery, Attorney-in-Fact

LeeAnne K. Michaud
Witness LeeAnne K. Michaud

THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA

POWERS OF ATTORNEY
CERTIFIED COPY

KNOW ALL MEN BY THESE PRESENTS: That THE HANOVER INSURANCE COMPANY and MASSACHUSETTS BAY INSURANCE COMPANY, both being corporations organized and existing under the laws of the State of New Hampshire, and CITIZENS INSURANCE COMPANY OF AMERICA, a corporation organized and existing under the laws of the State of Michigan, do hereby constitute and appoint

Richard A. Montgomery

of Columbia, MD and each is a true and lawful Attorney(s)-in-fact to sign, execute, seal, acknowledge and deliver for, and on its behalf, and as its act and deed any place within the United States, or, if the following line be filled in, only within the area therein designated

any and all bonds, recognizances, undertakings, contracts of indemnity or other writings obligatory in the nature thereof, as follows:

Surety Bond Number: 1066222
Principal: RG Towers, LLC
Obligee: City of Fort Pierce, Florida

and said companies hereby ratify and confirm all and whatsoever said Attorney(s)-in-fact may lawfully do in the premises by virtue of these presents. These appointments are made under and by authority of the following Resolution passed by the Board of Directors of said Companies which resolutions are still in effect:

"RESOLVED, That the President or any Vice President, in conjunction with any Vice President, be and they are hereby authorized and empowered to appoint Attorneys-in-fact of the Company, in its name and as its acts, to execute and acknowledge for and on its behalf as Surety any and all bonds, recognizances, contracts of indemnity, waivers of citation and all other writings obligatory in the nature thereof, with power to attach thereto the seal of the Company. Any such writings so executed by such Attorneys-in-fact shall be as binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company in their own proper persons." (Adopted October 7, 1981 - The Hanover Insurance Company; Adopted April 14, 1982 - Massachusetts Bay Insurance Company; Adopted September 7, 2001 - Citizens Insurance Company of America)

IN WITNESS WHEREOF, THE HANOVER INSURANCE COMPANY, MASSACHUSETTS BAY INSURANCE COMPANY and CITIZENS INSURANCE COMPANY OF AMERICA have caused these presents to be sealed with their respective corporate seals, duly attested by two Vice Presidents, this **6th** day of **October 2011**.

THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA

Robert Thomas, Vice President

Mark Fitzgerald, Vice President

THE COMMONWEALTH OF MASSACHUSETTS)
COUNTY OF WORCESTER) ss.

On this **6th** day of **October 2011** before me came the above named Vice Presidents of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, to me personally known to be the individuals and officers described herein, and acknowledged that the seals affixed to the preceding instrument are the corporate seals of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, respectively, and that the said corporate seals and their signatures as officers were duly affixed and subscribed to said instrument by the authority and direction of said Corporations.

BARBARA A. GARLICK
Notary Public
Commonwealth of Massachusetts
My Commission Expires Sept. 21, 2018

Barbara A. Garlick, Notary Public
My Commission Expires September 21, 2018

I, the undersigned Vice President of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America, hereby certify that the above and foregoing is a full, true and correct copy of the Original Power of Attorney issued by said Companies, and do hereby further certify that the said Powers of Attorney are still in force and effect.

This Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of The Hanover Insurance Company, Massachusetts Bay Insurance Company and Citizens Insurance Company of America.

"RESOLVED, That any and all Powers of Attorney and Certified Copies of such Powers of Attorney and certification in respect thereto, granted and executed by the President or any Vice President in conjunction with any Vice President of the Company, shall be binding on the Company to the same extent as if all signatures therein were manually affixed, even though one or more of any such signatures thereon may be facsimile." (Adopted October 7, 1981 - The Hanover Insurance Company; Adopted April 14, 1982 - Massachusetts Bay Insurance Company; Adopted September 7, 2001 - Citizens Insurance Company of America)

GIVEN under my hand and the seals of said Companies, at Worcester, Massachusetts, this 26th day of January 2018.

THE HANOVER INSURANCE COMPANY
MASSACHUSETTS BAY INSURANCE COMPANY
CITIZENS INSURANCE COMPANY OF AMERICA

Glenn Margosian, Vice President

Project Number: U0142-705-181

September 14, 2018

STEALTH® Concealment Solutions
3034-A Ashley Phosphate Rd
North Charleston, SC 29418

REFERENCE: **Ft. Pierce Orange Ave RG18-01105W-05R1;**
Fall Zone Letter for 130'-0" Concealment Pole

To Whom It May Concern:

It is our understanding that a 130 ft concealment monopole has been proposed for this site.

The above-mentioned pole has been designed in accordance with the Florida Building Code, 2017 Edition (2015 IBC) and the ANSI TIA222-G "Structural Standard for Antenna Supporting Structures and Antennas". Additionally, all steel members and connections have been designed to meet the requirements of the AISC Steel Construction Manual.

The pole will be designed for the following criteria:

1. Wind speed (V): 159 mph (3-second gust) per the ASCE 7-10
2. Ice: 0" radial ice (nominal) with concurrent 30 mph wind (3-second gust)
3. Basic wind speed of 60 mph (3-second gust) for the service condition (deflection limitations only)
4. Structure Class II, Exposure C, Topographic Category 1 with a crest height of 0 ft.

It has been requested that the proposed monopole be designed for a fall zone of 0-ft.

Please note that "fall zone" is a term not defined in the standards listed above. Our approach to the fall zone design is described in the preceding paragraph and is our best attempt to meet what we believe to be the intent of the fall zone request. Current code does not address failure mechanics. It is difficult to impossible to predict the behavior of a failing structure. Physics of a fall during a wind event, including possible bouncing or rolling, may place all or part of the ruptured pole section outside of the intended fall zone. Nonstructural components attached to the steel structure are outside of our scope. Nonstructural components may break free from the structure and fall outside of the fall zone even at loads below code-specified magnitudes if the components and their attachments are not properly designed and installed.

We hope this meets your needs. If you have any questions or require additional information, please call this office at your convenience.

Very truly yours,
VECTOR STRUCTURAL ENGINEERING, LLC

Russell N. Emery, P.E.
Principal Engineer

RUSSELL N. EMERY LICENSE No 71060 STATE OF FLORIDA PROFESSIONAL ENGINEER

09/18/2018

RNE/djf

DocuSign Envelope ID: F5506CD1-2659-444B-91D8-0ED8FA5AD112

SITE LICENSE AGREEMENT

This Site License Agreement ("SLA") is entered into this 10th day of January, 2018 ("SLA Effective Date") between RG Towers, LLC, hereinafter designated as LICENSOR, and T-Mobile South LLC, hereinafter designated as LICENSEE.

1. Integration with Master Lease Agreement: This SLA is entered into pursuant to that certain Master License Agreement between T-MOBILE CENTRAL LLC, T-MOBILE SOUTH LLC, T-MOBILE WEST LLC, T-MOBILE PUERTO RICO LLC, and POWERTEL/MEMPHIS, Inc. and RG Towers, LLC dated October 1, 2012 ("MLA"). All of the terms and conditions of the MLA are incorporated herein by this reference and made a part hereof without the necessity of repeating or attaching the MLA. Except as set forth in the MLA, in the event of a contradiction, modification or inconsistency between the terms of the MLA and this SLA, the terms of the MLA shall govern. Capitalized terms used in this SLA shall have the same meaning described for them in the MLA unless otherwise indicated herein.

2. Site Number and Name (if applicable):

LICENSOR:TC11 Fort Pierce Orange Ave

LICENSEE: A2P0227B Fort Pierce Orange Ave

3. Site Address and Legal Description: More particularly described in Attachment 1, attached hereto and incorporated herein.

4. Site Latitude and Longitude: 27.447662, -80.345875

5. Description of Antenna Facilities: LICENSEE Antenna Facilities to be placed on the Property and the location of the Premises are detailed in and shall be consistent with Attachment 2, attached hereto and incorporated herein.

6. Term: The term of this SLA shall be as set forth in Section 2(b) of the MLA and commence upon either [check one box]:

X The earlier of (i) two hundred seventy (270) days after the SLA Effective Date; or (ii) the date of the Notice to Proceed under Section 10(a) of the MLA; or

☐ _____ 2018

7. Rent Commencement: The first payment of Rent shall be due on the SLA Commencement Date.

8. Rent Amount: The monthly Rent for the initial term of this SLA shall be to be paid on the first day of the month, in advance, to LICENSOR at the following address: 2141 Alternate A1A South, Suite 440, Jupiter, FL 33477; or to such other person, firm or place as LICENSOR may, from time to time, designate in writing at least thirty (30) days in advance of any rental payment date.

9. Prime Lease. If the Property is subject to a Prime Lease, a copy of such agreement is attached hereto as Attachment 3. If consent is required from the Owner, it is attached hereto as Attachment 4.

10. Licensor Contact for Emergency (not for legal notices): RG Towers, LLC

11. Licensee Contact for Emergency (not for legal notices): T-Mobile NOC 866-482-8890

12. Special Provisions (insert any special provisions):

IN WITNESS WHEREOF, the Parties hereto have set their hands and affixed their respective seals the day and year first above written.

DocuSigned by:
Holly Valdez
33D74A227BFA407...
WITNESS

DocuSigned by:
Harlan Ginn
7B842542F6F64EB...
WITNESS

LICENSOR: RG Towers, LLC

BY: DocuSigned by: F23977ED6FA2490...

PRINT NAME: Scott Richards

TITLE: CEO

DATE: 1/10/2018

DocuSigned by:
Erin Foltz
C12EA6527858485...
WITNESS

DocuSigned by:
Amy O'Rourke
BB3F601BD34346F...
WITNESS

LICENSEE: T-Mobile South LLC

BY: DocuSigned by: Harlan J. Kickhoefer 9818B5EEB66D4BF...

PRINT NAME: Harlan J. Kickhoefer

TITLE: Sr. Director, Network Engineering & Operations

DATE: 1/2/2018

ATTACHMENTS:

Attachment 1: Legal Description of Land
Attachment 2: Licensor's Application Form Completed by Licensee
Attachment 3: Prime Lease
Attachment 4: Owner's Consent
Attachment 5: Memorandum of Site License Agreement
Attachment 6: Approved Plans

DocuSign Envelope ID: F5506CD1-2659-444B-91D8-0ED8FA5AD112

Attachment 1: Legal Description of Land

Legal Description of Land

PARENT TRACT
(PER OFFICIAL RECORD BOOK 3822, PAGE 1761 OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA)

LOTS 3, 4 AND 5, LESS THE SOUTH 15 FEET THEREOF, BLOCK 3 OF FLORIANA PARK, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 2, PAGE 7C, OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA.

RG Towers, LLC

5-10-18

RE: RG Towers-Ft Pierce- Orange Ave Affidavit 22-163-An affidavit from the property owner or applicant acknowledging acceptance of the requirements of section 22-163

RG Towers, LLC., applicant for the construction of a new communication tower, acknowledges the requirement per Section 22-163 for the removal of abandoned antenna support structure.

It is understood that prior to building permit we shall submit required documentation.

(a)
At time of building permit the applicant shall enter into a contractually enforceable agreement with the city which requires the applicant or the owner of the antenna support structure to remove the antenna support structure upon its abandonment.
(b)
Prior to issuance of any permit in accordance with this article, the property owner or tower operator shall submit a bond, surety or other financial guaranty for the use and benefit of the city, to ensure the removal of abandoned communication towers. The form of surety shall be subject to approval by the director of planning and the city attorney. The required surety shall be irrevocable, unless released by the city. The surety shall be utilized to cover the costs of removal and disposal of abandoned towers and shall consist of the following:
(1)
Submittals of an estimate from a certified structural engineer indicating the costs to remove and dispose of the tower;
(2)
A surety equivalent to one hundred (100) per cent of the estimated costs to remove and dispose of the tower.
The planning director, subject to review by the city attorney, may accept documentation from a tower operator or property owner that adequate resources or irrevocable contract obligations are available to remove obsolete or abandoned communication towers.
(c)
In the event all legally approved use of any antenna support structure has been discontinued for a period of one hundred eighty (180) consecutive days, the antenna support structure shall be deemed abandoned. Determination of the date of abandonment shall be made by the department of code enforcement, which may request suitable documentation from the owner of the antenna support structure regarding any matter relating to whether the antenna support structure is currently being used or not;
(d)

2141 Alternate A1A South, Suite 440
Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com

At such time as the department of code enforcement determines that an antenna support structure is abandoned, it shall provide the antenna support structure owner with written notice of an abandonment determination by certified mail. Failure or refusal by the owner to respond within sixty (60) days of receipt of such notice, shall constitute prima facie evidence that the antenna support structure has been abandoned.

(e)

If the owner of the antenna support structure fails to respond or fails to demonstrate that the antenna support structure is not abandoned, the antenna support structure shall be considered abandoned and the owner of the antenna support structure shall have an additional one hundred twenty (120) days within which to:

(1)

Reactivate the use of the antenna support structure or transfer the antenna support structure to another owner who makes actual use of the antenna support structure within the one hundred twenty (120) day period; or

(2)

Dismantle and remove the antenna support structure. At the earlier of one hundred twenty-one (121) days from the date of abandonment without reactivation or upon completion of dismantling and removal, any special exception approval for the antenna support structure shall automatically expire.

(Ord. No. J-452, § 1, 9-21-98)

Sincerely,

Scott Richards
CEO
RG Towers, LLC

2141 Alternate A1A South, Suite 440
Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com

STRUCTURAL CALCULATIONS
for
FT. PIERCE ORANGE AVE
TOP SECTION
at
2006 ORANGE AVENUE
FT. PIERCE, FL 34950
for
RG TOWERS
&
STEALTH® CONCEALMENT SOLUTIONS (RG18-01105W-05R1)



BY: **RUSSELL N. EMERY, P.E.**
PROJECT ENGINEER

FL Firm License Number: COA 26626

PROJECT #: **U0142-705-181**

DATE: **September 13, 2018**

DESIGNED BY DJF; CHECKED BY RNE

NOTE:
The calculations presented in this package are intended for a single use at the location indicated above, for the client listed above. These calculations shall not be reproduced, reused, "card filed", sold to a third party, or altered in any way without the written authorization of Vector Structural Engineering, LLC and STEALTH® Concealment Solutions.

JOB NO.: U0142-705-181

PROJECT: FT. PIERCE ORANGE AVE

Design Criteria:

Code: Structural design is based on the Florida Building Code, 2017 Edition (2015 IBC)

Wind: Basic wind speed = 159 mph (3-second gust) per the ASCE 7-10 standard
Risk category / Structure class: II
Wind exposure: C
Topographic category: 1
Crest height: 0 ft

Ice: None per the TIA-222-G standard

General Notes:

1 The contractor shall verify dimensions, conditions and elevations before starting work. The engineer shall be notified immediately if any discrepancies are found.
2 The typical notes and details shall apply in all cases unless specifically detailed elsewhere. Where no detail is shown, the construction shall be as shown for other similar work and as required by the building code.
3 These calculations are limited to the structural members shown in these calculations only.
4 The contractor shall be responsible for compliance with local construction safety orders. Approval of shop drawings by the architect or structural engineer shall not be construed as accepting this responsibility.
5 All structural framing members shall be adequately shored and braced during erection and until full lateral and vertical support is provided by adjoining members.

Structural Steel:

1 All structural steel code checks based on the AISC-LRFD, 3rd Edition per the TIA-222-G standard
2 All steel round tubes (HSS) to be per ASTM A500 GR. B (42 KSI), U.N.O.
3 All other structural steel shapes & plates shall be per ASTM A36, U.N.O.
4 All bolts for steel-to-steel connections shall be per ASTM F3125 GR. A325 U.N.O.
5 All bolted connections shall be tightened per the "turn-of-nut" method as defined by AISC.
6 All welding shall be performed by certified welders in accordance with the latest edition of the American Welding Society (AWS) D1.1
7 All steel surfaces shall be galvanized in accordance with ASTM A123 and ASTM F2329 standards, thoroughly coated with a zinc-rich primer, or otherwise protected as noted on the structural drawings.

JOB NO.: U0142-705-181

PROJECT: FT. PIERCE ORANGE AVE

User Forces

Ice Thickness[in]:	0.00	Elev. @ Top of Base Pole [ft]:	82.0
Ice Density [pcf]:	56	Elev. @ Bottom of Base Pole [ft]:	1.0
Cylinder Shape:	18-Sided		
Shape Factor:	0.65	(supercritical)	
	1.20	(subcritical)	

		Diameter [in]			Weight [lb]		CaAc [ft^2]	
Cylinder	Length [ft]	No Ice	w/ Ice	Plates	No Ice	w/ Ice	No Ice	w/ Ice
				Top Plate	370	370	16.5	30.5
1	12.0	50	50.00					
				Bulkhead	520	520	33.0	60.9
2	12.0	50	50.00					
				Bulkhead	520	520	33.0	60.9
3	12.0	50	50.00					
				Bulkhead	520	520	33.0	60.9
4	12.0	50	50.00					
				Bottom Plate	370	370	16.5	30.5
					0	0	0.0	0.0
					0	0	0.0	0.0
					0	0	0.0	0.0
					0	0	0.0	0.0

DESIGNED APPURTENANCE LOADING

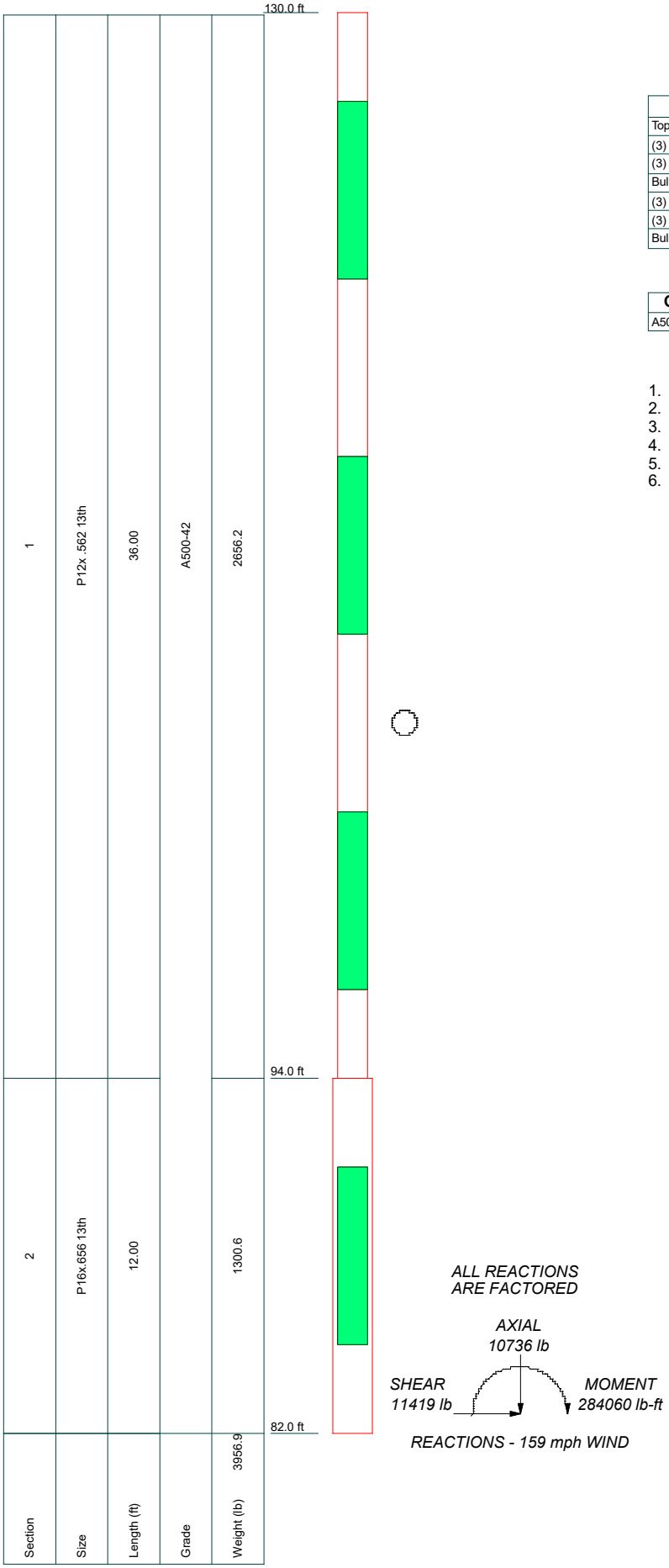
TYPE	ELEVATION	TYPE	ELEVATION
Top Plate	130	(3) Generic Panel 100# (enclosed)	100
(3) Generic Equipment (Enclosed)	124	(3) Generic Equipment (Enclosed)	100
(3) Generic Panel 105# (enclosed)	124	Bulkhead	94
Bulkhead	118	(3) Generic Equipment (Enclosed)	88
(3) Generic Panel 100# (enclosed)	112	(3) Generic Panel 100# (enclosed)	88
(3) Generic Equipment (Enclosed)	112	Bottom Plate	82
Bulkhead	106		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A500-42	42 ksi	58 ksi			

TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-G Standard.
2. Tower designed for a 159 mph basic wind in accordance with the TIA-222-G Standard.
3. Deflections are based upon a 60 mph wind.
4. Tower Risk Category II.
5. Topographic Category 1 with Crest Height of 0.00 ft
6. TOWER RATING: 66.9%



Section	Size	Length (ft)	Grade	Weight (lb)
1	P12x .562 13th	36.00	A500-42	2656.2
2	P16x.656 13th	12.00		1300.6
				3956.9

Vector Structural Engineering
651 West Galena Park BLVD
Draper, UT 84020
Phone: (801) 990-1775
FAX:

Job: ***Ft. Pierce Orange Ave***			
Project: ***U0142-705-181***			
Client: STEALTH® Concealment Solutions	Drawn by: dfoulger	App'd:	
Code: TIA-222-G	Date: 09/13/18	Scale: NTS	
Path:		Dwg No. E-1	

Tower Input Data

The tower is a monopole.
This tower is designed using the TIA-222-G standard.
The following design criteria apply:

ASCE 7-10 Wind Data is used.
Basic wind speed of 159 mph.
Risk Category II.
Exposure Category C.
Topographic Category 1.
Crest Height 0.00 ft.
Deflections calculated using a wind speed of 60 mph.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Pole Section Geometry

Section	Elevation ft	Section Length ft	Pole Size	Pole Grade	Socket Length ft
L1	130.00-94.00	36.00	P12x .562 13th	A500-42 (42 ksi)	
L2	94.00-82.00	12.00	P16x.656 13th	A500-42 (42 ksi)	

Tower Elevation ft	Gusset Area (per face) ft²	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 130.00-94.00				0	0	1.08			
L2 94.00-82.00				0	0	1.08			

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Total Number		C_AA_A ft²/ft	Weight plf
1 5/8 Coax	C	No	Inside Pole	124.00 - 82.00	12	No Ice	0.00	0.72
1 5/8 Coax	C	No	Inside Pole	112.00 - 82.00	12	No Ice	0.00	0.72
1 5/8 Coax	C	No	Inside Pole	100.00 - 82.00	12	No Ice	0.00	0.72
1 5/8 Coax	C	No	Inside Pole	88.00 - 82.00	12	No Ice	0.00	0.72

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight lb
L1	130.00-94.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	466.56
L2	94.00-82.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	362.88

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice

User Defined Loads

Description	Elevation ft	Offset From Centroid ft	Azimuth Angle °		Weight lb	F_x lb	F_z lb	Wind Force lb	C_AA_C ft^2
Top Plate	130.00	0.00	0.0000	No Ice	370.00	0.00	0.00	**1492.54**	16.50
				Service	370.00	0.00	0.00	**190.16**	16.50
Bulkhead	118.00	0.00	0.0000	No Ice	520.00	0.00	0.00	**2924.83**	33.00
				Service	520.00	0.00	0.00	**372.65**	33.00
Bulkhead	106.00	0.00	0.0000	No Ice	520.00	0.00	0.00	**2859.53**	33.00
				Service	520.00	0.00	0.00	**364.33**	33.00
Bulkhead	94.00	0.00	0.0000	No Ice	520.00	0.00	0.00	**2788.11**	33.00
				Service	520.00	0.00	0.00	**355.23**	33.00
Bottom Plate	82.00	0.00	0.0000	No Ice	370.00	0.00	0.00	**1354.54**	16.50
				Service	370.00	0.00	0.00	**172.58**	16.50

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight lb
(3) Generic Panel 105# (enclosed)	C	None		0.0000	124.00	No Ice	0.00	0.00	105.00
(3) Generic Panel 100# (enclosed)	C	None		0.0000	112.00	No Ice	0.00	0.00	105.00
(3) Generic Panel 100# (enclosed)	C	None		0.0000	100.00	No Ice	0.00	0.00	105.00
(3) Generic Panel 100# (enclosed)	C	None		0.0000	88.00	No Ice	0.00	0.00	105.00
(3) Generic Equipment (Enclosed)	C	None		0.0000	124.00	No Ice	0.00	0.00	50.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight lb
(3) Generic Equipment (Enclosed)	C	None		0.0000	112.00	No Ice	0.00	0.00	50.00
(3) Generic Equipment (Enclosed)	C	None		0.0000	100.00	No Ice	0.00	0.00	50.00
(3) Generic Equipment (Enclosed)	C	None		0.0000	88.00	No Ice	0.00	0.00	50.00

Tower Pressures - No Ice

$G_H = 1.100$

Section Elevation ft	z ft	K_Z	q_z psf	A_G ft^2	Face	A_F ft^2	A_R ft^2	A_{leg} ft^2	Leg %	C_AA_A In Face ft^2	C_AA_A Out Face ft^2
L1 130.00-94.00	112.15	1.297	80	38.250	A	0.000	0.000	0.000	0.00	0.000	0.000
					B	0.000	0.000		0.00	0.000	0.000
					C	0.000	0.000		0.00	0.000	0.000
L2 94.00-82.00	88.00	1.232	76	16.000	A	0.000	0.000	0.000	0.00	0.000	0.000
					B	0.000	0.000		0.00	0.000	0.000
					C	0.000	0.000		0.00	0.000	0.000

Tower Pressure - Service

$G_H = 1.100$

Section Elevation ft	z ft	K_Z	q_z psf	A_G ft^2	Face	A_F ft^2	A_R ft^2	A_{leg} ft^2	Leg %	C_AA_A In Face ft^2	C_AA_A Out Face ft^2
L1 130.00-94.00	112.15	1.297	10	38.250	A	0.000	0.000	0.000	0.00	0.000	0.000
					B	0.000	0.000		0.00	0.000	0.000
					C	0.000	0.000		0.00	0.000	0.000
L2 94.00-82.00	88.00	1.232	10	16.000	A	0.000	0.000	0.000	0.00	0.000	0.000
					B	0.000	0.000		0.00	0.000	0.000
					C	0.000	0.000		0.00	0.000	0.000

Tower Forces - No Ice - Wind Normal To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft^2	F lb	w plf	Ctrl. Face
L1	466.56	2656.21	A	0	0.6	80	1	1	0.000	0.00	0.00	C

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F lb	w plf	Ctrl. Face
130.00-94.00			B	0	0.6		1	1	0.000			
			C	0	0.6		1	1	0.000			
L2	362.88	1300.64	A	0	0.6	76	1	1	0.000	0.00	0.00	C
94.00-82.00			B	0	0.6		1	1	0.000			
			C	0	0.6		1	1	0.000			
Sum Weight:	829.44	3956.86						OTM	0.00 lb-ft	0.00		

Tower Forces - No Ice - Wind 45 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F lb	w plf	Ctrl. Face
L1	466.56	2656.21	A	0	0.6	80	1	1	0.000	0.00	0.00	C
130.00-94.00			B	0	0.6		1	1	0.000			
			C	0	0.6		1	1	0.000			
L2	362.88	1300.64	A	0	0.6	76	1	1	0.000	0.00	0.00	C
94.00-82.00			B	0	0.6		1	1	0.000			
			C	0	0.6		1	1	0.000			
Sum Weight:	829.44	3956.86						OTM	0.00 lb-ft	0.00		

Tower Forces - No Ice - Wind 60 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F lb	w plf	Ctrl. Face
L1	466.56	2656.21	A	0	0.6	80	1	1	0.000	0.00	0.00	C
130.00-94.00			B	0	0.6		1	1	0.000			
			C	0	0.6		1	1	0.000			
L2	362.88	1300.64	A	0	0.6	76	1	1	0.000	0.00	0.00	C
94.00-82.00			B	0	0.6		1	1	0.000			
			C	0	0.6		1	1	0.000			
Sum Weight:	829.44	3956.86						OTM	0.00 lb-ft	0.00		

Tower Forces - No Ice - Wind 90 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F lb	w plf	Ctrl. Face
L1	466.56	2656.21	A	0	0.6	80	1	1	0.000	0.00	0.00	C
130.00-94.00			B	0	0.6		1	1	0.000			
			C	0	0.6		1	1	0.000			

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F lb	w plf	Ctrl. Face
L2	362.88	1300.64	A	0	0.6	76	1	1	0.000	0.00	0.00	C
94.00-82.00			B	0	0.6		1	1	0.000			
			C	0	0.6		1	1	0.000			
Sum Weight:	829.44	3956.86						OTM	0.00 lb-ft	0.00		

Tower Forces - Service - Wind Normal To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F lb	w plf	Ctrl. Face
L1	466.56	2656.21	A	0	0.6	10	1	1	0.000	0.00	0.00	C
130.00-94.00			B	0	0.6		1	1	0.000			
			C	0	0.6		1	1	0.000			
L2	362.88	1300.64	A	0	0.6	10	1	1	0.000	0.00	0.00	C
94.00-82.00			B	0	0.6		1	1	0.000			
			C	0	0.6		1	1	0.000			
Sum Weight:	829.44	3956.86						OTM	0.00 lb-ft	0.00		

Tower Forces - Service - Wind 45 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F lb	w plf	Ctrl. Face
L1	466.56	2656.21	A	0	0.6	10	1	1	0.000	0.00	0.00	C
130.00-94.00			B	0	0.6		1	1	0.000			
			C	0	0.6		1	1	0.000			
L2	362.88	1300.64	A	0	0.6	10	1	1	0.000	0.00	0.00	C
94.00-82.00			B	0	0.6		1	1	0.000			
			C	0	0.6		1	1	0.000			
Sum Weight:	829.44	3956.86						OTM	0.00 lb-ft	0.00		

Tower Forces - Service - Wind 60 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F lb	w plf	Ctrl. Face
L1	466.56	2656.21	A	0	0.6	10	1	1	0.000	0.00	0.00	C
130.00-94.00			B	0	0.6		1	1	0.000			
			C	0	0.6		1	1	0.000			
L2	362.88	1300.64	A	0	0.6	10	1	1	0.000	0.00	0.00	C
94.00-82.00			B	0	0.6		1	1	0.000			

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F lb	w plf	Ctrl. Face
Sum Weight:	829.44	3956.86	C	0	0.6		1	1 OTM	0.000 0.00 lb-ft	0.00		

Tower Forces - Service - Wind 90 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F lb	w plf	Ctrl. Face
L1	466.56	2656.21	A	0	0.6	10	1	1	0.000	0.00	0.00	C
130.00-94.00			B	0	0.6		1	1	0.000			
			C	0	0.6		1	1	0.000			
L2	362.88	1300.64	A	0	0.6	10	1	1	0.000	0.00	0.00	C
94.00-82.00			B	0	0.6		1	1	0.000			
			C	0	0.6		1	1	0.000			
Sum Weight:	829.44	3956.86						OTM	0.00 lb-ft	0.00		

Discrete Appurtenance Pressures - No Ice $G_H = 1.100$

Description	Aiming Azimuth °	Weight lb	$Offset_x$ ft	$Offset_z$ ft	z ft	K_z	q_z psf	C_AA_C Front ft²	C_AA_C Side ft²
Generic Panel 105# (enclosed)	0.0000	315.00	0.00	0.00	124.00	1.324	81	0.00	0.00
Generic Panel 100# (enclosed)	0.0000	315.00	0.00	0.00	112.00	1.296	80	0.00	0.00
Generic Panel 100# (enclosed)	0.0000	315.00	0.00	0.00	100.00	1.266	78	0.00	0.00
Generic Panel 100# (enclosed)	0.0000	315.00	0.00	0.00	88.00	1.232	76	0.00	0.00
Generic Equipment (Enclosed)	0.0000	150.00	0.00	0.00	124.00	1.324	81	0.00	0.00
Generic Equipment (Enclosed)	0.0000	150.00	0.00	0.00	112.00	1.296	80	0.00	0.00
Generic Equipment (Enclosed)	0.0000	150.00	0.00	0.00	100.00	1.266	78	0.00	0.00
Generic Equipment (Enclosed)	0.0000	150.00	0.00	0.00	88.00	1.232	76	0.00	0.00
	Sum Weight:	1860.00							

Discrete Appurtenance Pressures - Service $G_H = 1.100$

Description	Aiming Azimuth °	Weight lb	$Offset_x$ ft	$Offset_z$ ft	z ft	K_z	q_z psf	C_AA_C Front ft²	C_AA_C Side ft²

Description	Aiming Azimuth °	Weight lb	$Offset_x$ ft	$Offset_z$ ft	z ft	K_z	q_z psf	C_AA_C Front ft^2	C_AA_C Side ft^2
Generic Panel 105# (enclosed)	0.0000	315.00	0.00	0.00	124.00	1.324	10	0.00	0.00
Generic Panel 100# (enclosed)	0.0000	315.00	0.00	0.00	112.00	1.296	10	0.00	0.00
Generic Panel 100# (enclosed)	0.0000	315.00	0.00	0.00	100.00	1.266	10	0.00	0.00
Generic Panel 100# (enclosed)	0.0000	315.00	0.00	0.00	88.00	1.232	10	0.00	0.00
Generic Equipment (Enclosed)	0.0000	150.00	0.00	0.00	124.00	1.324	10	0.00	0.00
Generic Equipment (Enclosed)	0.0000	150.00	0.00	0.00	112.00	1.296	10	0.00	0.00
Generic Equipment (Enclosed)	0.0000	150.00	0.00	0.00	100.00	1.266	10	0.00	0.00
Generic Equipment (Enclosed)	0.0000	150.00	0.00	0.00	88.00	1.232	10	0.00	0.00
	Sum Weight:	1860.00							

Force Totals

Load Case	Vertical Forces lb	Sum of Forces X lb	Sum of Forces Z lb	Sum of Overturning Moments, M_x lb-ft	Sum of Overturning Moments, M_z lb-ft	Sum of Torques lb-ft
Leg Weight	3956.86					
Bracing Weight	0.00					
Total Member Self-Weight	3956.86			0.00	0.00	
Total Weight	8946.30			0.00	0.00	
Wind 0 deg - No Ice		0.00	-11419.55	-279021.74	0.00	0.00
Wind 30 deg - No Ice		5709.78	-9889.62	-241639.91	-139510.87	0.00
Wind 45 deg - No Ice		8074.84	-8074.84	-197298.16	-197298.16	0.00
Wind 60 deg - No Ice		9889.62	-5709.78	-139510.87	-241639.91	0.00
Wind 90 deg - No Ice		11419.55	0.00	0.00	-279021.74	0.00
Wind 120 deg - No Ice		9889.62	5709.78	139510.87	-241639.91	0.00
Wind 135 deg - No Ice		8074.84	8074.84	197298.16	-197298.16	0.00
Wind 150 deg - No Ice		5709.78	9889.62	241639.91	-139510.87	0.00
Wind 180 deg - No Ice		0.00	11419.55	279021.74	0.00	0.00
Wind 210 deg - No Ice		-5709.78	9889.62	241639.91	139510.87	0.00
Wind 225 deg - No Ice		-8074.84	8074.84	197298.16	197298.16	0.00
Wind 240 deg - No Ice		-9889.62	5709.78	139510.87	241639.91	0.00
Wind 270 deg - No Ice		-11419.55	0.00	0.00	279021.74	0.00
Wind 300 deg - No Ice		-9889.62	-5709.78	-139510.87	241639.91	0.00
Wind 315 deg - No Ice		-8074.84	-8074.84	-197298.16	197298.16	0.00
Wind 330 deg - No Ice		-5709.78	-9889.62	-241639.91	139510.87	0.00
Total Weight	8946.30			0.00	0.00	
Wind 0 deg - Service		0.00	-1454.97	-35550.16	0.00	0.00
Wind 30 deg - Service		727.48	-1260.04	-30787.35	-17775.08	0.00
Wind 45 deg - Service		1028.82	-1028.82	-25137.76	-25137.76	0.00
Wind 60 deg - Service		1260.04	-727.48	-17775.08	-30787.35	0.00
Wind 90 deg - Service		1454.97	0.00	0.00	-35550.16	0.00
Wind 120 deg - Service		1260.04	727.48	17775.08	-30787.35	0.00
Wind 135 deg - Service		1028.82	1028.82	25137.76	-25137.76	0.00
Wind 150 deg - Service		727.48	1260.04	30787.35	-17775.08	0.00
Wind 180 deg - Service		0.00	1454.97	35550.16	0.00	0.00
Wind 210 deg - Service		-727.48	1260.04	30787.35	17775.08	0.00
Wind 225 deg - Service		-1028.82	1028.82	25137.76	25137.76	0.00
Wind 240 deg - Service		-1260.04	727.48	17775.08	30787.35	0.00

Load Case	Vertical Forces lb	Sum of Forces X lb	Sum of Forces Z lb	Sum of Overturning Moments, M_x lb-ft	Sum of Overturning Moments, M_z lb-ft	Sum of Torques lb-ft
Wind 270 deg - Service		-1454.97	0.00	0.00	35550.16	0.00
Wind 300 deg - Service		-1260.04	-727.48	-17775.08	30787.35	0.00
Wind 315 deg - Service		-1028.82	-1028.82	-25137.76	25137.76	0.00
Wind 330 deg - Service		-727.48	-1260.04	-30787.35	17775.08	0.00

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 45 deg - No Ice
7	0.9 Dead+1.0 Wind 45 deg - No Ice
8	1.2 Dead+1.0 Wind 60 deg - No Ice
9	0.9 Dead+1.0 Wind 60 deg - No Ice
10	1.2 Dead+1.0 Wind 90 deg - No Ice
11	0.9 Dead+1.0 Wind 90 deg - No Ice
12	1.2 Dead+1.0 Wind 120 deg - No Ice
13	0.9 Dead+1.0 Wind 120 deg - No Ice
14	1.2 Dead+1.0 Wind 135 deg - No Ice
15	0.9 Dead+1.0 Wind 135 deg - No Ice
16	1.2 Dead+1.0 Wind 150 deg - No Ice
17	0.9 Dead+1.0 Wind 150 deg - No Ice
18	1.2 Dead+1.0 Wind 180 deg - No Ice
19	0.9 Dead+1.0 Wind 180 deg - No Ice
20	1.2 Dead+1.0 Wind 210 deg - No Ice
21	0.9 Dead+1.0 Wind 210 deg - No Ice
22	1.2 Dead+1.0 Wind 225 deg - No Ice
23	0.9 Dead+1.0 Wind 225 deg - No Ice
24	1.2 Dead+1.0 Wind 240 deg - No Ice
25	0.9 Dead+1.0 Wind 240 deg - No Ice
26	1.2 Dead+1.0 Wind 270 deg - No Ice
27	0.9 Dead+1.0 Wind 270 deg - No Ice
28	1.2 Dead+1.0 Wind 300 deg - No Ice
29	0.9 Dead+1.0 Wind 300 deg - No Ice
30	1.2 Dead+1.0 Wind 315 deg - No Ice
31	0.9 Dead+1.0 Wind 315 deg - No Ice
32	1.2 Dead+1.0 Wind 330 deg - No Ice
33	0.9 Dead+1.0 Wind 330 deg - No Ice
34	Dead+Wind 0 deg - Service
35	Dead+Wind 30 deg - Service
36	Dead+Wind 45 deg - Service
37	Dead+Wind 60 deg - Service
38	Dead+Wind 90 deg - Service
39	Dead+Wind 120 deg - Service
40	Dead+Wind 135 deg - Service
41	Dead+Wind 150 deg - Service
42	Dead+Wind 180 deg - Service
43	Dead+Wind 210 deg - Service
44	Dead+Wind 225 deg - Service
45	Dead+Wind 240 deg - Service
46	Dead+Wind 270 deg - Service
47	Dead+Wind 300 deg - Service

Comb. No.	Description
48	Dead+Wind 315 deg - Service
49	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft
L1	130 - 94	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-6987.89	-114856.88	114856.88
			Max. Mx	10	-6987.89	-162432.08	0.00
			Max. My	2	-6987.89	0.00	162432.08
			Max. Vy	10	7455.15	-82202.87	0.00
			Max. Vx	2	-7455.15	0.00	82202.87
			Max. Torque	4			-0.00
L2	94 - 82	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-10726.45	-200861.07	200861.07
			Max. Mx	10	-10726.45	-284060.40	0.00
			Max. My	2	-10726.45	0.00	284060.40
			Max. Vy	10	11428.00	-284060.40	0.00
			Max. Vx	2	-11428.00	0.00	284060.40
			Max. Torque	4			-0.00

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical lb	Horizontal, X lb	Horizontal, Z lb
Pole	Max. Vert	6	10735.55	-8074.77	8074.77
	Max. H_x	26	10735.55	11419.45	0.00
	Max. H_z	2	10735.55	0.00	11419.45
	Max. M_x	2	284060.40	0.00	11419.45
	Max. M_z	10	284060.40	-11419.45	0.00
	Max. Torsion	16	0.00	-5709.72	-9889.53
	Min. Vert	3	8051.66	0.00	11419.17
	Min. H_x	10	10735.55	-11419.45	0.00
	Min. H_z	18	10735.55	0.00	-11419.45
	Min. M_x	18	-284060.40	0.00	-11419.45
	Min. M_z	26	-284060.40	11419.45	0.00
	Min. Torsion	4	-0.00	-5709.72	9889.53

Tower Mast Reaction Summary

Load Combination	Vertical lb	$Shear_x$ lb	$Shear_z$ lb	Overturning Moment, M_x lb-ft	Overturning Moment, M_z lb-ft	Torque lb-ft
Dead Only	8946.30	0.00	0.00	0.00	0.00	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	10735.55	0.00	-11419.45	-284060.40	0.00	0.00
0.9 Dead+1.0 Wind 0 deg - No Ice	8051.66	0.00	-11419.17	-282743.67	0.00	0.00

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	lb	lb	lb	lb-ft	lb-ft	lb-ft
1.2 Dead+1.0 Wind 30 deg - No Ice	10735.55	5709.72	-9889.53	-246003.55	-142030.24	0.00
0.9 Dead+1.0 Wind 30 deg - No Ice	8051.67	5709.74	-9889.56	-244873.51	-141377.81	0.00
1.2 Dead+1.0 Wind 45 deg - No Ice	10735.55	8074.77	-8074.77	-200861.07	-200861.07	0.00
0.9 Dead+1.0 Wind 45 deg - No Ice	8051.67	8074.79	-8074.79	-199938.40	-199938.40	0.00
1.2 Dead+1.0 Wind 60 deg - No Ice	10735.55	9889.53	-5709.72	-142030.24	-246003.55	-0.00
0.9 Dead+1.0 Wind 60 deg - No Ice	8051.67	9889.56	-5709.74	-141377.81	-244873.51	-0.00
1.2 Dead+1.0 Wind 90 deg - No Ice	10735.55	11419.45	0.00	0.00	-284060.40	0.00
0.9 Dead+1.0 Wind 90 deg - No Ice	8051.66	11419.17	0.00	0.00	-282743.67	0.00
1.2 Dead+1.0 Wind 120 deg - No Ice	10735.55	9889.53	5709.72	142030.24	-246003.55	0.00
0.9 Dead+1.0 Wind 120 deg - No Ice	8051.67	9889.56	5709.74	141377.81	-244873.51	0.00
1.2 Dead+1.0 Wind 135 deg - No Ice	10735.55	8074.77	8074.77	200861.07	-200861.07	0.00
0.9 Dead+1.0 Wind 135 deg - No Ice	8051.67	8074.79	8074.79	199938.40	-199938.40	0.00
1.2 Dead+1.0 Wind 150 deg - No Ice	10735.55	5709.72	9889.53	246003.55	-142030.24	-0.00
0.9 Dead+1.0 Wind 150 deg - No Ice	8051.67	5709.74	9889.56	244873.51	-141377.81	-0.00
1.2 Dead+1.0 Wind 180 deg - No Ice	10735.55	0.00	11419.45	284060.40	0.00	0.00
0.9 Dead+1.0 Wind 180 deg - No Ice	8051.66	0.00	11419.17	282743.67	0.00	0.00
1.2 Dead+1.0 Wind 210 deg - No Ice	10735.55	-5709.72	9889.53	246003.55	142030.24	0.00
0.9 Dead+1.0 Wind 210 deg - No Ice	8051.67	-5709.74	9889.56	244873.51	141377.81	0.00
1.2 Dead+1.0 Wind 225 deg - No Ice	10735.55	-8074.77	8074.77	200861.07	200861.07	0.00
0.9 Dead+1.0 Wind 225 deg - No Ice	8051.67	-8074.79	8074.79	199938.40	199938.40	0.00
1.2 Dead+1.0 Wind 240 deg - No Ice	10735.55	-9889.53	5709.72	142030.24	246003.55	-0.00
0.9 Dead+1.0 Wind 240 deg - No Ice	8051.67	-9889.56	5709.74	141377.81	244873.51	-0.00
1.2 Dead+1.0 Wind 270 deg - No Ice	10735.55	-11419.45	0.00	0.00	284060.40	0.00
0.9 Dead+1.0 Wind 270 deg - No Ice	8051.66	-11419.17	0.00	0.00	282743.67	0.00
1.2 Dead+1.0 Wind 300 deg - No Ice	10735.55	-9889.53	-5709.72	-142030.24	246003.55	0.00
0.9 Dead+1.0 Wind 300 deg - No Ice	8051.67	-9889.56	-5709.74	-141377.81	244873.51	0.00
1.2 Dead+1.0 Wind 315 deg - No Ice	10735.55	-8074.77	-8074.77	-200861.07	200861.07	0.00
0.9 Dead+1.0 Wind 315 deg - No Ice	8051.67	-8074.79	-8074.79	-199938.40	199938.40	0.00
1.2 Dead+1.0 Wind 330 deg - No Ice	10735.55	-5709.72	-9889.53	-246003.55	142030.24	-0.00
0.9 Dead+1.0 Wind 330 deg - No Ice	8051.67	-5709.74	-9889.56	-244873.51	141377.81	-0.00
Dead+Wind 0 deg - Service	8946.30	0.00	-1454.72	-36083.48	0.00	0.00

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	lb	lb	lb	lb-ft	lb-ft	lb-ft
Dead+Wind 30 deg - Service	8946.30	727.36	-1259.82	-31249.21	-18041.74	0.00
Dead+Wind 45 deg - Service	8946.30	1028.64	-1028.64	-25514.88	-25514.88	0.00
Dead+Wind 60 deg - Service	8946.30	1259.82	-727.36	-18041.74	-31249.21	-0.00
Dead+Wind 90 deg - Service	8946.30	1454.72	0.00	0.00	-36083.48	0.00
Dead+Wind 120 deg - Service	8946.30	1259.82	727.36	18041.74	-31249.21	0.00
Dead+Wind 135 deg - Service	8946.30	1028.64	1028.64	25514.88	-25514.88	0.00
Dead+Wind 150 deg - Service	8946.30	727.36	1259.82	31249.21	-18041.74	-0.00
Dead+Wind 180 deg - Service	8946.30	0.00	1454.72	36083.48	0.00	0.00
Dead+Wind 210 deg - Service	8946.30	-727.36	1259.82	31249.21	18041.74	0.00
Dead+Wind 225 deg - Service	8946.30	-1028.64	1028.64	25514.88	25514.88	0.00
Dead+Wind 240 deg - Service	8946.30	-1259.82	727.36	18041.74	31249.21	-0.00
Dead+Wind 270 deg - Service	8946.30	-1454.72	0.00	0.00	36083.48	0.00
Dead+Wind 300 deg - Service	8946.30	-1259.82	-727.36	-18041.74	31249.21	0.00
Dead+Wind 315 deg - Service	8946.30	-1028.64	-1028.64	-25514.88	25514.88	0.00
Dead+Wind 330 deg - Service	8946.30	-727.36	-1259.82	-31249.21	18041.74	-0.00

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	% Error
1	0.00	-8946.30	0.00	0.00	8946.30	0.00	0.000%
2	0.00	-10735.56	-11419.55	0.00	10735.55	11419.45	0.001%
3	0.00	-8051.67	-11419.55	0.00	8051.66	11419.17	0.003%
4	5709.78	-10735.56	-9889.62	-5709.72	10735.55	9889.53	0.001%
5	5709.78	-8051.67	-9889.62	-5709.74	8051.67	9889.56	0.001%
6	8074.84	-10735.56	-8074.84	-8074.77	10735.55	8074.77	0.001%
7	8074.84	-8051.67	-8074.84	-8074.79	8051.67	8074.79	0.001%
8	9889.62	-10735.56	-5709.78	-9889.53	10735.55	5709.72	0.001%
9	9889.62	-8051.67	-5709.78	-9889.56	8051.67	5709.74	0.001%
10	11419.55	-10735.56	0.00	-11419.45	10735.55	0.00	0.001%
11	11419.55	-8051.67	0.00	-11419.17	8051.66	0.00	0.003%
12	9889.62	-10735.56	5709.78	-9889.53	10735.55	-5709.72	0.001%
13	9889.62	-8051.67	5709.78	-9889.56	8051.67	-5709.74	0.001%
14	8074.84	-10735.56	8074.84	-8074.77	10735.55	-8074.77	0.001%
15	8074.84	-8051.67	8074.84	-8074.79	8051.67	-8074.79	0.001%
16	5709.78	-10735.56	9889.62	-5709.72	10735.55	-9889.53	0.001%
17	5709.78	-8051.67	9889.62	-5709.74	8051.67	-9889.56	0.001%
18	0.00	-10735.56	11419.55	0.00	10735.55	-11419.45	0.001%
19	0.00	-8051.67	11419.55	0.00	8051.66	-11419.17	0.003%
20	-5709.78	-10735.56	9889.62	5709.72	10735.55	-9889.53	0.001%
21	-5709.78	-8051.67	9889.62	5709.74	8051.67	-9889.56	0.001%
22	-8074.84	-10735.56	8074.84	8074.77	10735.55	-8074.77	0.001%
23	-8074.84	-8051.67	8074.84	8074.79	8051.67	-8074.79	0.001%
24	-9889.62	-10735.56	5709.78	9889.53	10735.55	-5709.72	0.001%
25	-9889.62	-8051.67	5709.78	9889.56	8051.67	-5709.74	0.001%
26	-11419.55	-10735.56	0.00	11419.45	10735.55	0.00	0.001%
27	-11419.55	-8051.67	0.00	11419.17	8051.66	0.00	0.003%
28	-9889.62	-10735.56	-5709.78	9889.53	10735.55	5709.72	0.001%
29	-9889.62	-8051.67	-5709.78	9889.56	8051.67	5709.74	0.001%
30	-8074.84	-10735.56	-8074.84	8074.77	10735.55	8074.77	0.001%
31	-8074.84	-8051.67	-8074.84	8074.79	8051.67	8074.79	0.001%
32	-5709.78	-10735.56	-9889.62	5709.72	10735.55	9889.53	0.001%
33	-5709.78	-8051.67	-9889.62	5709.74	8051.67	9889.56	0.001%
34	0.00	-8946.30	-1454.97	0.00	8946.30	1454.72	0.003%
35	727.48	-8946.30	-1260.04	-727.36	8946.30	1259.82	0.003%
36	1028.82	-8946.30	-1028.82	-1028.64	8946.30	1028.64	0.003%
37	1260.04	-8946.30	-727.48	-1259.82	8946.30	727.36	0.003%

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	% Error
38	1454.97	-8946.30	0.00	-1454.72	8946.30	0.00	0.003%
39	1260.04	-8946.30	727.48	-1259.82	8946.30	-727.36	0.003%
40	1028.82	-8946.30	1028.82	-1028.64	8946.30	-1028.64	0.003%
41	727.48	-8946.30	1260.04	-727.36	8946.30	-1259.82	0.003%
42	0.00	-8946.30	1454.97	0.00	8946.30	-1454.72	0.003%
43	-727.48	-8946.30	1260.04	727.36	8946.30	-1259.82	0.003%
44	-1028.82	-8946.30	1028.82	1028.64	8946.30	-1028.64	0.003%
45	-1260.04	-8946.30	727.48	1259.82	8946.30	-727.36	0.003%
46	-1454.97	-8946.30	0.00	1454.72	8946.30	0.00	0.003%
47	-1260.04	-8946.30	-727.48	1259.82	8946.30	727.36	0.003%
48	-1028.82	-8946.30	-1028.82	1028.64	8946.30	1028.64	0.003%
49	-727.48	-8946.30	-1260.04	727.36	8946.30	1259.82	0.003%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	6	0.00000001	0.00000001
2	Yes	10	0.00000001	0.00003736
3	Yes	9	0.00000001	0.00012900
4	Yes	10	0.00000001	0.00011385
5	Yes	10	0.00000001	0.00008987
6	Yes	10	0.00000001	0.00012922
7	Yes	10	0.00000001	0.00010190
8	Yes	10	0.00000001	0.00011385
9	Yes	10	0.00000001	0.00008987
10	Yes	10	0.00000001	0.00003736
11	Yes	9	0.00000001	0.00012900
12	Yes	10	0.00000001	0.00011385
13	Yes	10	0.00000001	0.00008987
14	Yes	10	0.00000001	0.00012922
15	Yes	10	0.00000001	0.00010190
16	Yes	10	0.00000001	0.00011385
17	Yes	10	0.00000001	0.00008987
18	Yes	10	0.00000001	0.00003736
19	Yes	9	0.00000001	0.00012900
20	Yes	10	0.00000001	0.00011385
21	Yes	10	0.00000001	0.00008987
22	Yes	10	0.00000001	0.00012922
23	Yes	10	0.00000001	0.00010190
24	Yes	10	0.00000001	0.00011385
25	Yes	10	0.00000001	0.00008987
26	Yes	10	0.00000001	0.00003736
27	Yes	9	0.00000001	0.00012900
28	Yes	10	0.00000001	0.00011385
29	Yes	10	0.00000001	0.00008987
30	Yes	10	0.00000001	0.00012922
31	Yes	10	0.00000001	0.00010190
32	Yes	10	0.00000001	0.00011385
33	Yes	10	0.00000001	0.00008987
34	Yes	8	0.00000001	0.00010603
35	Yes	8	0.00000001	0.00010463
36	Yes	8	0.00000001	0.00010416
37	Yes	8	0.00000001	0.00010463
38	Yes	8	0.00000001	0.00010603
39	Yes	8	0.00000001	0.00010463

40	Yes	8	0.00000001	0.00010416
41	Yes	8	0.00000001	0.00010463
42	Yes	8	0.00000001	0.00010603
43	Yes	8	0.00000001	0.00010463
44	Yes	8	0.00000001	0.00010416
45	Yes	8	0.00000001	0.00010463
46	Yes	8	0.00000001	0.00010603
47	Yes	8	0.00000001	0.00010463
48	Yes	8	0.00000001	0.00010416
49	Yes	8	0.00000001	0.00010463

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	130 - 94	2.092	34	0.3100	0.0000
L2	94 - 82	0.152	34	0.1107	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
130.00	Top Plate	34	2.092	0.3100	0.0000	33522
124.00	(3) Generic Panel 105# (enclosed)	34	1.678	0.2849	0.0000	27935
118.00	Bulkhead	34	1.280	0.2583	0.0000	13967
112.00	(3) Generic Panel 100# (enclosed)	34	0.913	0.2291	0.0000	9312
106.00	Bulkhead	34	0.592	0.1956	0.0000	6984
100.00	(3) Generic Panel 100# (enclosed)	34	0.333	0.1566	0.0000	5587
94.00	Bulkhead	34	0.152	0.1107	0.0000	5131
88.00	(3) Generic Panel 100# (enclosed)	36	0.053	0.0574	0.0000	9311
82.00	Bottom Plate	0	0.000	0.0000	0.0000	11174

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	130 - 94	16.479	10	2.4430	0.0000
L2	94 - 82	1.195	2	0.8719	0.0000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
130.00	Top Plate	10	16.479	2.4430	0.0000	4267
124.00	(3) Generic Panel 105# (enclosed)	10	13.221	2.2446	0.0000	3556
118.00	Bulkhead	2	10.084	2.0354	0.0000	1777
112.00	(3) Generic Panel 100# (enclosed)	10	7.192	1.8044	0.0000	1184
106.00	Bulkhead	2	4.665	1.5407	0.0000	888
100.00	(3) Generic Panel 100# (enclosed)	10	2.625	1.2335	0.0000	710
94.00	Bulkhead	2	1.195	0.8719	0.0000	651
88.00	(3) Generic Panel 100# (enclosed)	6	0.415	0.4523	0.0000	1182
82.00	Bottom Plate	0	0.000	0.0000	0.0000	1418

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
L1	130 - 128.2	P12x .562 13th	36.00	0.00	0.0	20.0771	-567.22	758915.00	0.001
	128.2 - 126.4					20.0771	-754.51	758915.00	0.001
	126.4 - 124.6					20.0771	-941.91	758915.00	0.001
	124.6 - 122.8					20.0771	-1686.91	758915.00	0.002
	122.8 - 121					20.0771	-1874.52	758915.00	0.002
	121 - 119.2					20.0771	-2062.24	758915.00	0.003
	119.2 - 117.4					20.0771	-2752.94	758915.00	0.004
	117.4 - 115.6					20.0771	-2942.48	758915.00	0.004
	115.6 - 113.8					20.0771	-3132.87	758915.00	0.004
	113.8 - 112					20.0771	-3324.16	758915.00	0.004
	112 - 110.2					20.0771	-4073.94	758915.00	0.005
	110.2 - 108.4					20.0771	-4267.06	758915.00	0.006
	108.4 - 106.6					20.0771	-4461.08	758915.00	0.006
	106.6 - 104.8					20.0771	-5183.62	758915.00	0.007
	104.8 - 103					20.0771	-5385.46	758915.00	0.007
	103 - 101.2					20.0771	-5589.67	758915.00	0.007
	101.2 - 99.4					20.0771	-6354.04	758915.00	0.008
	99.4 - 97.6					20.0771	-6563.00	758915.00	0.009
	97.6 - 95.8					20.0771	-6774.29	758915.00	0.009
	95.8 - 94					20.0771	-6987.89	758915.00	0.009
L2	94 - 93	P16x.656 13th	12.00	0.00	0.0	29.4930	-7754.40	1114830.00	0.007
	93 - 92					29.4930	-7930.71	1114830.00	0.007
	92 - 91					29.4930	-8107.60	1114830.00	0.007
	91 - 90					29.4930	-8285.08	1114830.00	0.007
	90 - 89					29.4930	-8463.14	1114830.00	0.008
	89 - 88					29.4930	-8641.77	1114830.00	0.008
	88 - 87					29.4930	-9378.96	1114830.00	0.008
	87 - 86					29.4930	-9558.75	1114830.00	0.009
	86 - 85					29.4930	-9739.10	1114830.00	0.009
	85 - 84					29.4930	-9920.02	1114830.00	0.009
	84 - 83					29.4930	-10101.50	1114830.00	0.009
	83 - 82					29.4930	-10283.50	1114830.00	0.009

Pole Bending Design Data

Section No.	Elevation	Size	M_{ux}	ϕM_{nx}	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy}	ϕM_{ny}	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	ft		lb-ft	lb-ft		lb-ft	lb-ft	
L1	130 - 128.2	P12x .562 13th	2726.04	246296.67	0.011	0.00	246296.67	0.000
	128.2 - 126.4		5465.67	246296.67	0.022	0.00	246296.67	0.000
	126.4 - 124.6		8219.42	246296.67	0.033	0.00	246296.67	0.000
	124.6 - 122.8		11015.33	246296.67	0.045	0.00	246296.67	0.000
	122.8 - 121		13838.83	246296.67	0.056	0.00	246296.67	0.000
	121 - 119.2		16675.25	246296.67	0.068	0.00	246296.67	0.000
	119.2 - 117.4		21293.33	246296.67	0.086	0.00	246296.67	0.000
	117.4 - 115.6		29460.08	246296.67	0.120	0.00	246296.67	0.000
	115.6 - 113.8		37636.67	246296.67	0.153	0.00	246296.67	0.000
	113.8 - 112		45821.50	246296.67	0.186	0.00	246296.67	0.000
	112 - 110.2		54051.08	246296.67	0.219	0.00	246296.67	0.000
	110.2 - 108.4		62283.75	246296.67	0.253	0.00	246296.67	0.000
	108.4 - 106.6		70517.25	246296.67	0.286	0.00	246296.67	0.000
	106.6 - 104.8		82203.25	246296.67	0.334	0.00	246296.67	0.000
	104.8 - 103		95609.17	246296.67	0.388	0.00	246296.67	0.000
	103 - 101.2		109004.17	246296.67	0.443	0.00	246296.67	0.000
	101.2 - 99.4		122390.83	246296.67	0.497	0.00	246296.67	0.000
	99.4 - 97.6		135770.83	246296.67	0.551	0.00	246296.67	0.000
	97.6 - 95.8		149120.00	246296.67	0.605	0.00	246296.67	0.000
	95.8 - 94		162432.50	246296.67	0.659	0.00	246296.67	0.000
L2	94 - 93	P16x.656 13th	172611.67	455350.00	0.379	0.00	455350.00	0.000
	93 - 92		182785.00	455350.00	0.401	0.00	455350.00	0.000
	92 - 91		192953.33	455350.00	0.424	0.00	455350.00	0.000
	91 - 90		203114.17	455350.00	0.446	0.00	455350.00	0.000
	90 - 89		213267.50	455350.00	0.468	0.00	455350.00	0.000
	89 - 88		223411.67	455350.00	0.491	0.00	455350.00	0.000
	88 - 87		233551.67	455350.00	0.513	0.00	455350.00	0.000
	87 - 86		243680.00	455350.00	0.535	0.00	455350.00	0.000
	86 - 85		253795.83	455350.00	0.557	0.00	455350.00	0.000
	85 - 84		263899.17	455350.00	0.580	0.00	455350.00	0.000
	84 - 83		273987.50	455350.00	0.602	0.00	455350.00	0.000
	83 - 82		284060.83	455350.00	0.624	0.00	455350.00	0.000

Pole Shear Design Data

Section No.	Elevation	Size	Actual V_u	ϕV_n	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u	ϕT_n	Ratio $\frac{T_u}{\phi T_n}$
	ft		lb	lb		lb-ft	lb-ft	
L1	130 - 128.2	P12x .562 13th	1518.86	379457.00	0.004	0.00	371474.17	0.000
	128.2 - 126.4		1526.78	379457.00	0.004	0.00	371474.17	0.000
	126.4 - 124.6		1534.62	379457.00	0.004	0.00	371474.17	0.000
	124.6 - 122.8		1565.88	379457.00	0.004	0.00	371474.17	0.000
	122.8 - 121		1573.28	379457.00	0.004	0.00	371474.17	0.000
	121 - 119.2		1580.44	379457.00	0.004	0.00	371474.17	0.000
	119.2 - 117.4		4535.39	379457.00	0.012	0.00	371474.17	0.000
	117.4 - 115.6		4541.57	379457.00	0.012	0.00	371474.17	0.000
	115.6 - 113.8		4546.96	379457.00	0.012	0.00	371474.17	0.000
	113.8 - 112		4551.44	379457.00	0.012	0.00	371474.17	0.000
	112 - 110.2		4576.11	379457.00	0.012	0.00	371474.17	0.000
	110.2 - 108.4		4577.70	379457.00	0.012	0.00	371474.17	0.000
	108.4 - 106.6		4577.92	379457.00	0.012	0.00	371474.17	0.000
	106.6 - 104.8		7455.52	379457.00	0.020	0.00	371474.17	0.000
	104.8 - 103		7451.23	379457.00	0.020	0.00	371474.17	0.000

Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u lb-ft	ϕT_n lb-ft	Ratio $\frac{T_u}{\phi T_n}$
	103 - 101.2		7444.40	379457.00	0.020	0.00	371474.17	0.000
	101.2 - 99.4		7449.79	379457.00	0.020	0.00	371474.17	0.000
	99.4 - 97.6		7435.68	379457.00	0.020	0.00	371474.17	0.000
	97.6 - 95.8		7418.28	379457.00	0.020	0.00	371474.17	0.000
	95.8 - 94		7397.38	379457.00	0.019	0.00	371474.17	0.000
L2	94 - 93	P16x.656 13th	10180.60	557417.00	0.018	0.00	688712.50	0.000
	93 - 92		10175.20	557417.00	0.018	0.00	688712.50	0.000
	92 - 91		10169.10	557417.00	0.018	0.00	688712.50	0.000
	91 - 90		10162.10	557417.00	0.018	0.00	688712.50	0.000
	90 - 89		10154.20	557417.00	0.018	0.00	688712.50	0.000
	89 - 88		10145.50	557417.00	0.018	0.00	688712.50	0.000
	88 - 87		10140.30	557417.00	0.018	0.00	688712.50	0.000
	87 - 86		10129.00	557417.00	0.018	0.00	688712.50	0.000
	86 - 85		10116.60	557417.00	0.018	0.00	688712.50	0.000
	85 - 84		10103.20	557417.00	0.018	0.00	688712.50	0.000
	84 - 83		10088.70	557417.00	0.018	0.00	688712.50	0.000
	83 - 82		10073.10	557417.00	0.018	0.00	688712.50	0.000

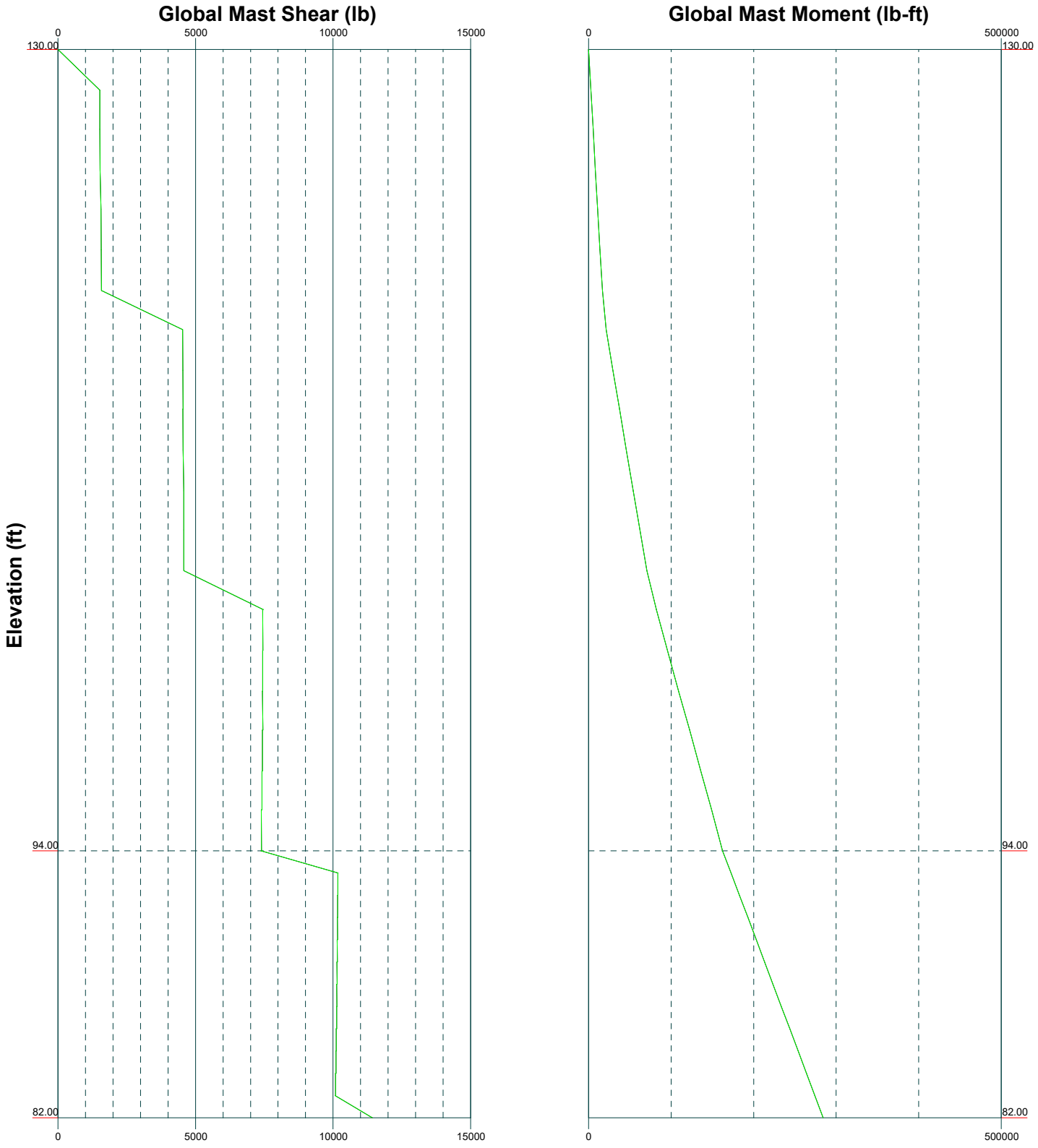
Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	130 - 128.2	0.001	0.011	0.000	0.004	0.000	0.012 ✔	1.000	4.8.2 ✔
	128.2 - 126.4	0.001	0.022	0.000	0.004	0.000	0.023 ✔	1.000	4.8.2 ✔
	126.4 - 124.6	0.001	0.033	0.000	0.004	0.000	0.035 ✔	1.000	4.8.2 ✔
	124.6 - 122.8	0.002	0.045	0.000	0.004	0.000	0.047 ✔	1.000	4.8.2 ✔
	122.8 - 121	0.002	0.056	0.000	0.004	0.000	0.059 ✔	1.000	4.8.2 ✔
	121 - 119.2	0.003	0.068	0.000	0.004	0.000	0.070 ✔	1.000	4.8.2 ✔
	119.2 - 117.4	0.004	0.086	0.000	0.012	0.000	0.090 ✔	1.000	4.8.2 ✔
	117.4 - 115.6	0.004	0.120	0.000	0.012	0.000	0.124 ✔	1.000	4.8.2 ✔
	115.6 - 113.8	0.004	0.153	0.000	0.012	0.000	0.157 ✔	1.000	4.8.2 ✔
	113.8 - 112	0.004	0.186	0.000	0.012	0.000	0.191 ✔	1.000	4.8.2 ✔
	112 - 110.2	0.005	0.219	0.000	0.012	0.000	0.225 ✔	1.000	4.8.2 ✔
	110.2 - 108.4	0.006	0.253	0.000	0.012	0.000	0.259 ✔	1.000	4.8.2 ✔
	108.4 - 106.6	0.006	0.286	0.000	0.012	0.000	0.292 ✔	1.000	4.8.2 ✔
	106.6 - 104.8	0.007	0.334	0.000	0.020	0.000	0.341 ✔	1.000	4.8.2 ✔

Section No.	Elevation ft	Ratio $P_u/\phi P_n$	Ratio $M_{ux}/\phi M_{nx}$	Ratio $M_{uy}/\phi M_{ny}$	Ratio $V_u/\phi V_n$	Ratio $T_u/\phi T_n$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	104.8 - 103	0.007	0.388	0.000	0.020	0.000	0.396 ✔	1.000	4.8.2 ✔
	103 - 101.2	0.007	0.443	0.000	0.020	0.000	0.450 ✔	1.000	4.8.2 ✔
	101.2 - 99.4	0.008	0.497	0.000	0.020	0.000	0.506 ✔	1.000	4.8.2 ✔
	99.4 - 97.6	0.009	0.551	0.000	0.020	0.000	0.560 ✔	1.000	4.8.2 ✔
	97.6 - 95.8	0.009	0.605	0.000	0.020	0.000	0.615 ✔	1.000	4.8.2 ✔
	95.8 - 94	0.009	0.659	0.000	0.019	0.000	0.669 ✔	1.000	4.8.2 ✔
L2	94 - 93	0.007	0.379	0.000	0.018	0.000	0.386 ✔	1.000	4.8.2 ✔
	93 - 92	0.007	0.401	0.000	0.018	0.000	0.409 ✔	1.000	4.8.2 ✔
	92 - 91	0.007	0.424	0.000	0.018	0.000	0.431 ✔	1.000	4.8.2 ✔
	91 - 90	0.007	0.446	0.000	0.018	0.000	0.454 ✔	1.000	4.8.2 ✔
	90 - 89	0.008	0.468	0.000	0.018	0.000	0.476 ✔	1.000	4.8.2 ✔
	89 - 88	0.008	0.491	0.000	0.018	0.000	0.499 ✔	1.000	4.8.2 ✔
	88 - 87	0.008	0.513	0.000	0.018	0.000	0.522 ✔	1.000	4.8.2 ✔
	87 - 86	0.009	0.535	0.000	0.018	0.000	0.544 ✔	1.000	4.8.2 ✔
	86 - 85	0.009	0.557	0.000	0.018	0.000	0.566 ✔	1.000	4.8.2 ✔
	85 - 84	0.009	0.580	0.000	0.018	0.000	0.589 ✔	1.000	4.8.2 ✔
	84 - 83	0.009	0.602	0.000	0.018	0.000	0.611 ✔	1.000	4.8.2 ✔
	83 - 82	0.009	0.624	0.000	0.018	0.000	0.633 ✔	1.000	4.8.2 ✔

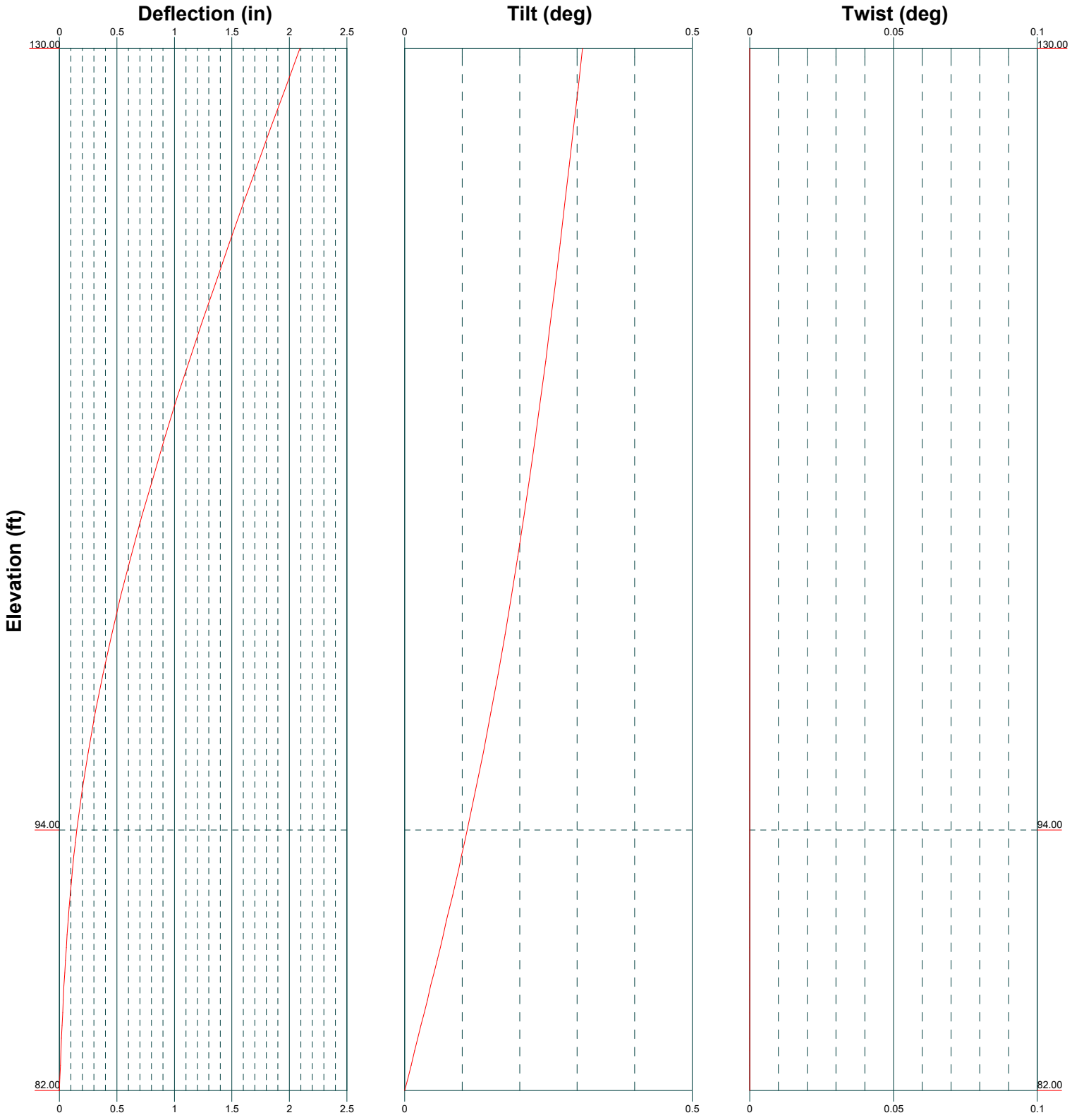
Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
L1	130 - 94	Pole	P12x .562 13th	1	-6987.89	758915.00	66.9	Pass
L2	94 - 82	Pole	P16x.656 13th	2	-10283.50	1114830.00	63.3	Pass
							Summary	
						Pole (L1)	66.9	Pass
						RATING =	**66.9**	**Pass**



Vector Structural Engineering
651 West Galena Park BLVD
Draper, UT 84020
Phone: (801) 990-1775
FAX:

Job: Ft. Pierce Orange Ave			
Project: U0142-705-181			
Client: STEALTH® Concealment Solutions	Drawn by: dfoulger	App'd:	
Code: TIA-222-G	Date: 09/13/18	Scale: NTS	
Path:		Dwg No. E-4	



Vector Structural Engineering
651 West Galena Park BLVD
Draper, UT 84020
Phone: (801) 990-1775
FAX:

Job: ***Ft. Pierce Orange Ave***			
Project: ***U0142-705-181***			
Client: STEALTH® Concealment Solutions	Drawn by: dfoulger	App'd:	
Code: TIA-222-G	Date: 09/13/18	Scale: NTS	
Path:		Dwg No. E-5	

VECTOR ENGINEERS

JOB NO.: U0142-705-181

PROJECT: FT. PIERCE ORANGE AVE

Bolted Annular Plates

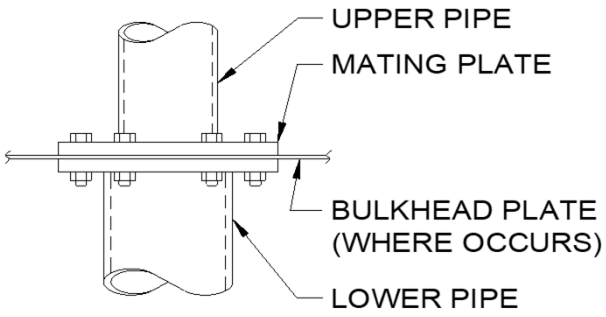
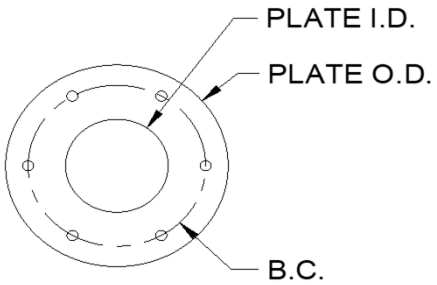


Plate F_y (ksi)	50
Upper Pipe Outer Diameter (in)	12.75
Upper Pipe Thickness t_1 (in)	0.562
Lower Pipe Thickness t_2 (in)	0.656
Lower Pipe Outer Diameter (in)	16
Moment @ Splice M_u (kip-ft)	162.4
Axial @ Splice P_u (kips)	7.0
Shear @ Splice V_u (kips)	7.5

Bolt Design

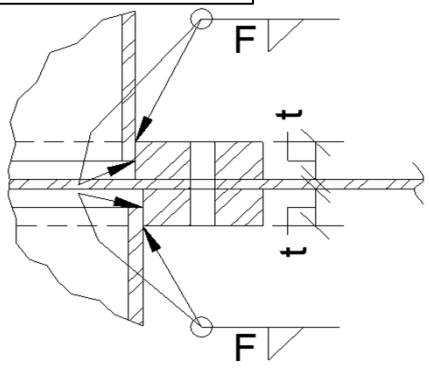


Bolt Circle Diameter BC (in)	19.75	
Number of Bolts, n	6	
T_u / Bolt (kips)	65.8	
V_u / Bolt (kips)	1.2	
Bolt Designation	A325	
Bolt Diameter (in)	1 1/4	
ϕT_n (kips)	82.8	
ϕV_n (kips)	44.2	
Combined Tension and Shear	0.79	**79%**

$$T_u = \frac{2M_u}{nr_b}$$

Plate Design

$$t = \sqrt{\frac{M_u(r_b - r_p)}{\emptyset F_y r_p r_b}}$$



Upper Plate Hole Radius, r_p (in)	6.4375	
Lower Plate Hole Radius, r_p (in)	8.0625	
Bolt Circle Radius, r_b (in)	9.875	
Plate OD (in)	23.25	
ϕ_{plate}	0.9	
Req'd Upper Plate Thickness, t (in)	1.75	**76%**
Req'd Lower Plate Thickness, t (in)	1.50	**58%**

Welds

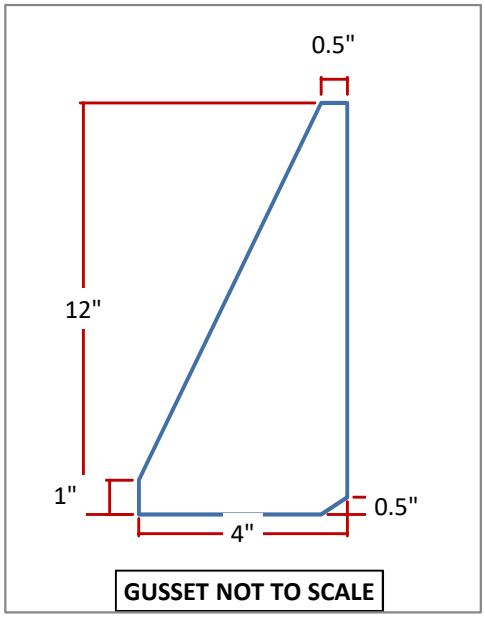
Fillet Weld Size F (in)	5/16	
Weld Strength, ϕR_n (k/in)	10.4	
Weld Stress, R_u (k/in)	7.7	**74%**

JOB NO.: U0142-705-181

PROJECT: FT. PIERCE ORANGE AVE

Gusset Calculation

Pipe Steel Grade	ASTM A500 Gr. B (42 KSI)
Gusset Plate F_y (ksi)	36
Pipe Outer Diameter (in)	12.75
Pipe Thickness (in)	0.562
Moment @ Splice M_u (kip-ft)	162
Axial @ Splice P_u (kips)	7.0
Shear @ Splice V_u (kips)	7.5



Bearing Plate Information

Bearing Plate Connected to Pipe?	Yes
Bolt Circle BC (in)	19.75
Bolt Diameter (in)	1 1/4
Plate O.D. (in)	23.25
Plate Thickness (in)	1.75
Weld Size Around O.D. of Pipe (in)	0.3125

Gusset Design

Gusset Quantity	6
Gusset Thickness (in)	0.75
Gusset Height (in)	12
Gusset Width (in)	4
Gusset Notch Vert. (in)	0.5
Gusset Notch Horiz. (in)	0.5

Gusset Loading

P_r / Gusset (kips)	49.5
e (in):	2.8

Fit Checks

Washer to Pipe Weld Gap (in)	**1.94**
Washer to Gusset Weld Gap (in)	**2.81**

Gusset Capacity Checks

Gusset to Pipe Thickness Check		**Okay**
Flexural Yielding Check	**16%**	**Okay**
Shear Yielding Check	**31%**	**Okay**
Gusset Buckling Check	**65%**	**Okay**
Pipe Wall Plastification Check	**N/A**	**Okay**
Combined Tension & Shear Check	**66%**	**Okay**

Gusset Welds

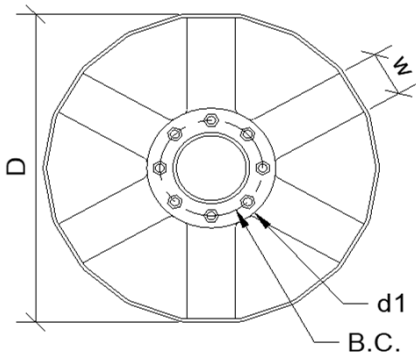
Vert. Weld Size (in)	3/8	**30%**
Horiz. Weld Size (in)	1/2	**74%**

VECTOR ENGINEERS

JOB NO.: U0142-705-181

PROJECT: FT. PIERCE ORANGE AVE

Bolted Annular & Spoked Plates



Reactions

Moment @ Splice M_u (kip-ft)	284.1	
Axial @ Splice P_u (kips)	11.1	
Shear @ Splice V_u (kips)	12.7	

Upper Pipe

Upper Pipe Outer Dia. (in)	16	
Upper Pipe Thickness, t2 (in)	0.656	
Monopole Flat - Flat (in)	50	
Monopole Thickness, t1 (in)	0.3125	

Bolt Design

Bolt Circle Diameter BC (in)	20	
Number of Bolts	10	
Number of Spokes	6	
T_u / Bolt (kips)	68.2	
V_u / Bolt (kips)	1.3	
Bolt Designation	A325	
Bolt Diameter (in)	1.375	
ϕT_n (kips)	100.2	
ϕV_n (kips)	53.5	
Combined Tension and Shear	0.68	68%

$$T_u = \frac{2M_u}{nr_b}$$

$$T1 = \sqrt{\frac{M_u(r_b - r_p)}{\emptyset F_y r_p r_b}}$$

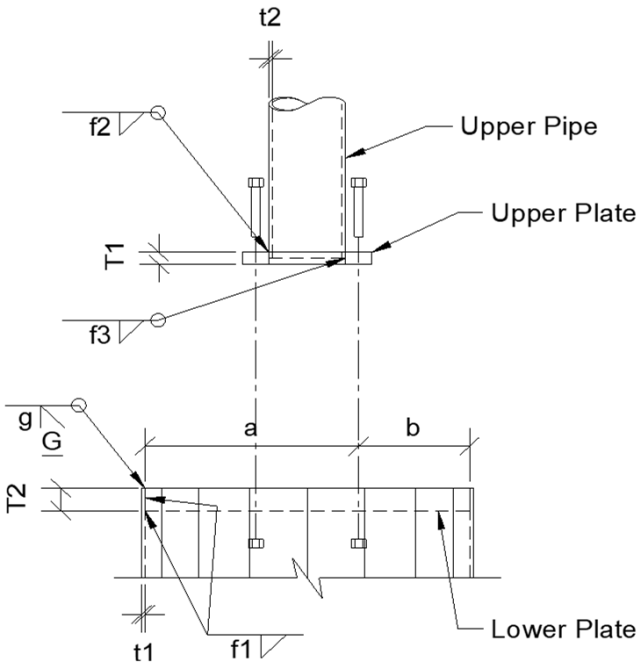
Upper Annular Plate

Plate F_y (ksi)	50.0	
Has Gussets?	Yes	
Plate Hole Radius, r_p (in)	8.0625	
Bolt Circle Radius, r_b (in)	10	
Plate OD d1 (in)	23.75	
ϕ_{plate}	0.9	
Required Plate Thickness, T1 (in)	1.75	59%

$$M_u = \frac{T_u b(a-b)}{a+b} + \frac{P_u b}{n}$$

Lower Spoked Plate

Plate F_y (ksi)	50.0	
Plate Thickness, T2 (in)	3.25	
Spoke Width, w (in)	8	
Inside Flat Length (in)	8.27	
distance, a (in)	34.69	
distance, b (in)	14.69	
Plate Moment M_u (kip-in)	703.3	
Edge Reaction (kip)	47.881	
ϕM_p (kip-in)	951	74%



Upper Plate Weld

Upper Fillet Weld Size, f2 (in)	6/16	
Lower Fillet Weld Size, f3 (in)	6/16	
Weld Strength, ϕR_n (k/in)	25.1	
Weld Stress, R_u (k/in)	17.2	69%

Lower Plate Weld

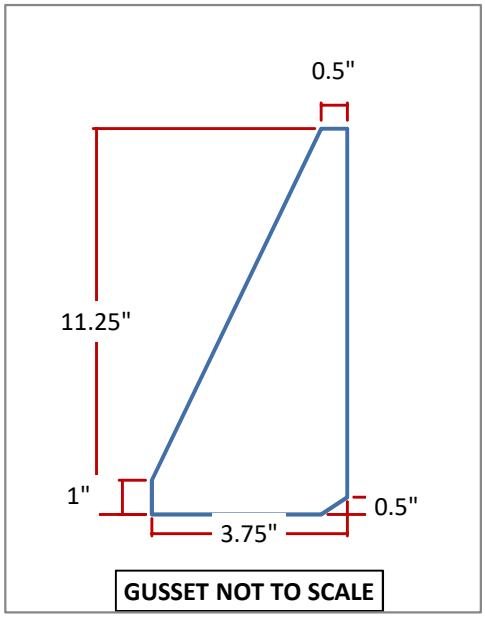
Side & Underneath Fillet Size, f1 (in)	4/16	
Fillet Length (in)	14.5	
Top Groove Weld Eff. Throat, g (in)	4/16	
Weld Strength (kips)	143.7	33%

JOB NO.: U0142-705-181

PROJECT: FT. PIERCE ORANGE AVE

Gusset Calculation

Pipe Steel Grade	ASTM A500 Gr. B (42 KSI)
Gusset Plate F_y (ksi)	36
Pipe Outer Diameter (in)	16
Pipe Thickness (in)	0.656
Moment @ Splice M_u (kip-ft)	284
Axial @ Splice P_u (kips)	11.1
Shear @ Splice V_u (kips)	12.7



Bearing Plate Information

Bearing Plate Connected to Pipe?	Yes
Bolt Circle BC (in)	20
Bolt Diameter (in)	1 3/8
Plate O.D. (in)	23.75
Plate Thickness (in)	1.75
Weld Size Around O.D. of Pipe (in)	0.3125

Gusset Design

Gusset Quantity	10
Gusset Thickness (in)	0.5
Gusset Height (in)	11.25
Gusset Width (in)	3.75
Gusset Notch Vert. (in)	0.5
Gusset Notch Horiz. (in)	0.5

Gusset Loading

P_r / Gusset (kips)	35.0
e (in):	2.7

Fit Checks

Washer to Pipe Weld Gap (in)	**0.31**
Washer to Gusset Weld Gap (in)	**1.09**

Gusset Capacity Checks

Gusset to Pipe Thickness Check		**Okay**
Flexural Yielding Check	**18%**	**Okay**
Shear Yielding Check	**36%**	**Okay**
Gusset Buckling Check	**73%**	**Okay**
Pipe Wall Plastification Check	**N/A**	**Okay**
Combined Tension & Shear Check	**78%**	**Okay**

Gusset Welds

Vert. Weld Size (in)	1/4	**34%**
Horiz. Weld Size (in)	3/8	**75%**

⚠ This is a beta release of the new ATC Hazards by Location website. Please contact us with feedback.

Hazards by Location

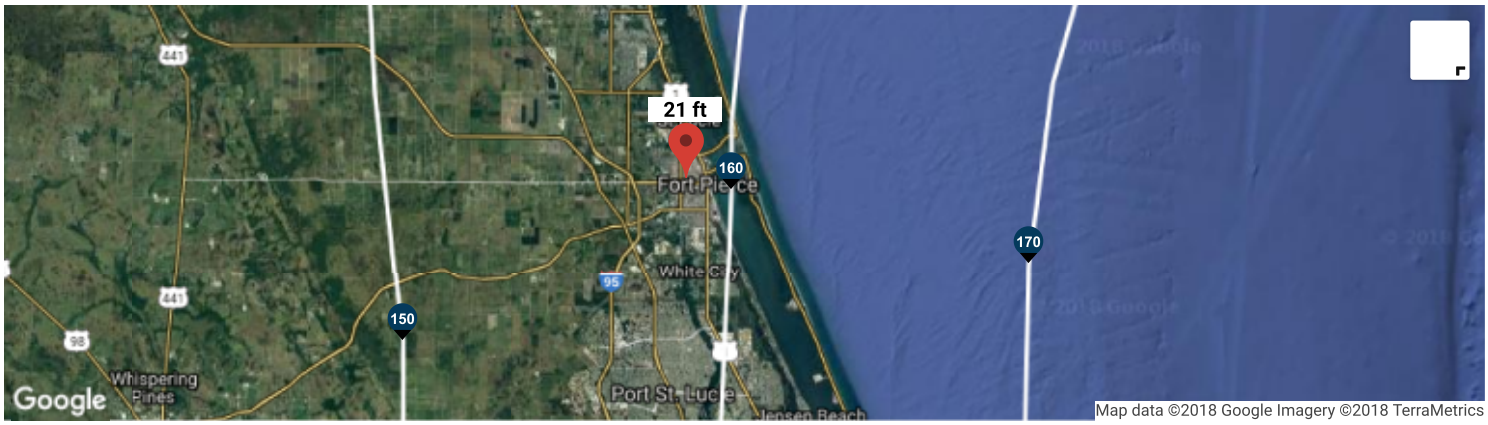
Search Information

Coordinates: 27.4475, -80.3455

Timestamp: 2018-09-10T23:38:46.258Z

Hazard Type: Wind

Map Results



Text Results

ASCE 7-16

MRI 10-Year ..... 88 mph

MRI 25-Year ..... 107 mph

MRI 50-Year ..... 119 mph

MRI 100-Year ..... ⚠ 131 mph

You are in a wind-borne debris region if you are also within 1 mile of the coastal mean high water line.

Risk Category I ..... ⚠ 147 mph

You are in a wind-borne debris region.

Risk Category II ..... ⚠ 159 mph

You are in a wind-borne debris region.

Risk Category III ..... ⚠ 170 mph

If the structure under consideration is a healthcare facility, you are in a wind-borne debris region. If other occupancy, use the Risk Category II basic wind speed contours to determine if you are in a wind-borne debris region.

Risk Category IV ..... ⚠ 182 mph

You are in a wind-borne debris region.

ASCE 7-10

MRI 10-Year ..... 88 mph

MRI 25-Year ..... 107 mph

MRI 50-Year ..... 119 mph

MRI 100-Year ..... ⚠ 131 mph

You are in a wind-borne debris region if you are also within 1 mile of the coastal mean high water line.

Risk Category I ..... ⚠ 147 mph

You are in a wind-borne debris region.

Risk Category II ..... ⚠ 159 mph

You are in a wind-borne debris region.

Risk Category III-IV ..... ⚠ 170 mph

If the structure under consideration is a healthcare facility, you are in a wind-borne debris region. If other occupancy, use the Risk Category II basic wind speed contours to determine if you are in a wind-borne debris region.

ASCE 7-05

ASCE 7-05 Wind Speed ..... ⚠ 140 mph

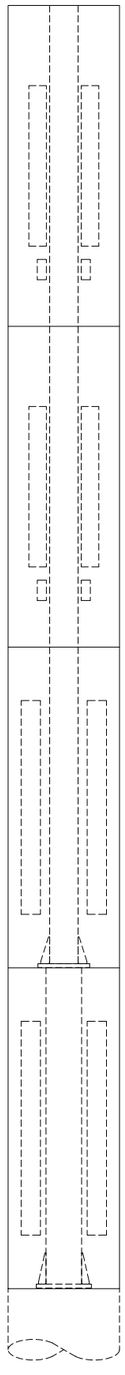
You are in a wind-borne debris region.

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are interpolated from data provided in ASCE 7 and rounded up to the nearest whole integer. Per ASCE 7, islands and coastal areas outside the last contour should use the last wind speed contour of the coastal area – in some cases, this website will extrapolate past the last wind speed contour and therefore, provide a wind speed that is slightly higher. NOTE: For queries near wind-borne debris region boundaries, the resulting determination is sensitive to rounding which may affect whether or not it is considered to be within a wind-borne debris region.

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STEALTH®
GO UNNOTICED™

3034-A ASHLEY PHOSPHATE RD.
NORTH CHARLESTON, SC 29418
P: (800)-755-0689 / F: (843)-207-0207
WWW.STEALTHCONCEALMENT.COM
PROJECT MANAGER:
CAROLINE WATSON ; (843)-574-9626

FINAL ENGINEERING

RG TOWERS
FT. PIERCE ORANGE AVE
TOP SECTION
2006 ORANGE AVENUE
FT. PIERCE, FL 34950

STEALTH JOB #: RG18-01105W-05R1

RUSSELL N. EMERY
LICENSE
No 71060
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

09/17/2018

VECTOR ENGINEERS
651 W. GALENA PARK BLVD., SUITE 101
DRAPER, UT 84020
P: (801) 990-1775 F: (801) 990-1776
VECTOR PROJECT: U0142-705-181
FL FIRM LICENSE NUMBER: COA 26626

DRAWING INDEX

T1	TITLE SHEET
N1-N2	NOTES & SPECIFICATIONS
S1	ELEVATIONS
S2-S5	DETAILS

T1
REVISION 0
9/17/18

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DESIGN NOTES:

STRUCTURAL DESIGN IS BASED ON THE FLORIDA BUILDING CODE, 2017 EDITION (2015 IBC) & THE TIA-222-G STANDARD.

DESIGN LOADS:
WIND:
BASIC WIND SPEED: 159 MPH (3-SEC GUST) PER ASCE 7-10 STANDARD
STRUCTURE CLASS: II
EXPOSURE: C
TOPOGRAPHIC CATEGORY: 1
CREST HEIGHT: 0 FT

ICE: NONE

ESTIMATED WEIGHT:
9.3 k (1.0 DEAD)

REACTIONS:

SHEAR, V = ---- k (1.0 WIND)
AXIAL, P = ---- k (1.2 DEAD)
MOMENT, M = ---- k-ft (1.0 WIND)

THE REACTIONS V & M LISTED ABOVE SHALL BE CONSIDERED TO ACT IN ANY HORIZONTAL DIRECTION. ANALYSIS OF THE MONOPOLE SUPPORT STRUCTURE TO RESIST THE DESIGN REACTIONS LISTED ABOVE IS THE RESPONSIBILITY OF OTHERS.

DESIGN:

1. ENGINEERING AND DESIGN CALCULATIONS FOR STEALTH® POLE AND TOWER PRODUCTS ARE PREPARED IN ACCORDANCE WITH THE TIA-222-G. OTHER STRUCTURES ARE DESIGNED IN ACCORDANCE WITH APPLICABLE LOCAL OR NATIONAL STANDARDS AND PER CLIENT INPUT.

DISCLAIMERS:

1. ALL STRUCTURAL COMPONENTS TO BE CONNECTED TOGETHER SHALL BE COMPLETELY FIT UP ON THE GROUND OR OTHERWISE VERIFIED FOR COMPATIBILITY PRIOR TO LIFTING ANY COMPONENT INTO PLACE. REPAIRS REQUIRED DUE TO FIT-UP OR CONNECTION COMPATIBILITY PROBLEMS AFTER PARTIAL ERECTION ARE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.
2. ALTHOUGH RARE, EXCESSIVE DEFLECTION SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN SLIM LINE OR MONOPOLE STRUCTURES AT LOW WIND SPEEDS. BECAUSE THE PHENOMENON IS INFLUENCED BY MANY INTERACTING VARIABLES, MOVEMENT AND OSCILLATIONS ARE GENERALLY UNPREDICTABLE. THE TOWER OWNER MUST PERIODICALLY OBSERVE THE STRUCTURE FOR EXCESSIVE DEFLECTION AND ANY RESULTING STRUCTURAL DAMAGE OR BOLT LOOSENING. IN THE EVENT OF EXCESSIVE MOVEMENT, VECTOR STRUCTURAL ENGINEERS MUST BE NOTIFIED IMMEDIATELY. MODIFICATIONS TO THE STRUCTURE MAY BE REQUIRED AT THE OWNER'S EXPENSE. THE CHANGES MAY ALTER THE AESTHETIC APPEARANCE OF THE STRUCTURE.

GENERAL

1. THE TYPICAL NOTES SHALL APPLY FOR ALL CASES UNLESS OTHERWISE SPECIFICALLY DETAILED WITHIN THE DRAWINGS. SOME NOTES MAY NOT BE APPLICABLE IN PART OR IN WHOLE FOR EVERY PROJECT.
2. ANY ITEMS REFERENCED AS BEING ON "HOLD" ARE TO BE INCLUDED IN THE WORK AS SHOWN. HOWEVER, CONSTRUCTION OR FABRICATION IS NOT TO BEGIN UNTIL THE "HOLD" REFERENCE IS REMOVED.
3. DIMENSIONS CONTAINED WITHIN MUST BE FIELD VERIFIED AND CUSTOMER APPROVED PRIOR TO FABRICATION OF MATERIALS.
4. THE MODIFICATIONS DEPICTED IN THESE DRAWINGS ARE INTENDED TO PROVIDE STRUCTURAL SUPPORT FOR THE ADDITION OF THE ANTENNA SCREENING SYSTEMS OUTLINED WITHIN. THE EXISTING STRUCTURE OR BUILDING SHALL BE ANALYZED AND RETROFITTED AS REQUIRED, BY OTHERS, TO WITHSTAND THE LOADS IMPOSED BY THE NEW STEALTH® ENCLOSURE SHOWN ON THE DRAWINGS.
5. ANTENNA CONCEALMENT PRODUCTS SHALL BE INSTALLED BY A CONTRACTOR EXPERIENCED IN SIMILAR WORK. CARE SHALL BE TAKEN IN THE INSTALLATION OF ANY AND ALL MEMBERS IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS AND PROCEDURES. ALL APPLICABLE OSHA SAFETY GUIDELINES ARE TO BE FOLLOWED. STEALTH® IS NOT PROVIDING FIELD INSTALLATION SUPERVISION.
6. THESE DRAWINGS INDICATE THE MAJOR OPERATIONS TO BE PERFORMED, BUT DO NOT SHOW EVERY FIELD CONDITION THAT MAY BE ENCOUNTERED. THEREFORE, PRIOR TO BEGINNING OF WORK THE CONTRACTOR SHOULD SURVEY THE JOB SITE THOROUGHLY TO MINIMIZE FIELD PROBLEMS.
7. PROTECTION OF EXISTING STRUCTURES DURING THE COURSE OF THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
8. THE STRUCTURAL INTEGRITY OF THIS STRUCTURE IS DESIGNED TO BE ATTAINED IN ITS COMPLETED STATE. WHILE UNDER CONSTRUCTION ANY TEMPORARY BRACING OR SHORING WHICH MAY BE REQUIRED TO MAINTAIN STABILITY PRIOR TO COMPLETION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
9. THE PLANS AND DETAILS WITHIN DO NOT INCLUDE DETAILS OR DESIGN FOR DRAINAGE FROM OR WATERPROOFING OF EXTERIOR OR INTERIOR SURFACES OF THE EXISTING BUILDING OR STRUCTURE. THESE DETAILS MUST BE COMPLETED BY OTHERS.
10. CONTRACTOR TO SHIM BASEPLATE AS REQUIRED TO ENSURE LEVEL SURFACE.

SPECIAL INSPECTIONS & STRUCTURAL OBSERVATION:

1. STEEL FABRICATION SHALL BE DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED AS REQUIRED BY THE BUILDING CODE TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.
2. NO FIELD WELDING SHALL BE PERMITTED.
3. THE FOLLOWING SPECIAL INSPECTIONS (WHERE APPLICABLE) SHALL BE REQUIRED PER CHAPTER 17 OF THE BUILDING CODE.
   - PERIODIC SPECIAL INSPECTION OF HIGH-STRENGTH BOLTING
4. SPECIAL INSPECTION IS NOT REQUIRED FOR WORK OF A MINOR NATURE OR AS WARRANTED BY CONDITIONS IN THE JURISDICTION AS APPROVED BY THE BUILDING OFFICIAL. THUS, SPECIAL INSPECTION ITEMS ABOVE MAY BE WAIVED AS DEEMED APPROPRIATE BY THE BUILDING OFFICIAL.
5. NO STRUCTURAL OBSERVATION IS REQUIRED.

MATERIAL NOTES:

1. ALL STEEL PIPES SHALL CONFORM w/ ASTM A500 GR. B (42 KSI MIN. YIELD STRENGTH).
2. ALL OTHER STRUCTURAL STEEL SHAPES & PLATES SHALL CONFORM TO ASTM A36, U.N.O.
3. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND PROCEDURES OF THE AMERICAN WELDING SOCIETY (AWS) BY CERTIFIED WELDERS PER AWS D1.1 FOR STEEL AND AWS D1.2 FOR ALUMINUM. ALL WELDING SHALL BE PREFORMED IN A SHOP APPROVED BY THE BUILDING OFFICIAL. STEEL WELDS SHALL BE BY E70XX LOW HYDROGEN ELECTRODES.
4. ALL STEEL SURFACES TO BE THOROUGHLY COATED WITH A ZINC-RICH PRIMER OR EQUIVALENT COATING, U.N.O.
5. ALL BOLTS FOR STEEL-TO-STEEL CONNECTIONS SHALL CONFORM TO ASTM F3125 GRADE A325 SPECIFICATIONS, U.N.O. A325N AND A325X ALLOWED.
6. ALL BOLTS SHALL BE GALVANIZED IN ACCORDANCE w/ ASTM F2329 SPECIFICATIONS.
7. ALL BOLTED CONNECTIONS SHALL BE TIGHTENED PER THE "TURN-OF-NUT" METHOD AS DEFINED BY AISC.

STEALTHSKIN PANELS

1. FASTENER HOLES IN STEALTHSKIN FOAM COMPOSITE PANELS ARE NOT FACTORY DRILLED AND MUST BE DRILLED IN THE FIELD.
2. PANEL FASTENERS TO BE SPACED 12" O.C. MAX. AND LOCATED 6" MAX. HORIZONTALLY FROM EACH EDGE AT TOP AND BOTTOM OF PANEL, UNLESS NOTED OTHERWISE. MAINTAIN 1 ½" MIN. EDGE DISTANCE FROM ALL EDGES. 4' WIDE PANELS REQUIRE (4) FASTENERS TOP AND BOTTOM. 5' WIDE PANELS REQUIRE (5) FASTENERS TOP AND BOTTOM.
3. WHEN FASTENER BOLT HEAD OR NUT BEARS DIRECTLY ON SURFACE OF STEALTHSKIN PANEL, TIGHTEN PANEL BOLTS ONLY ½ TURN PAST SNUG. APPLY THREAD LOCK COMPOUND TO THE THREADS OF METAL BOLTS. USE THIN BEAD OF EPOXY TO LOCK THE NUTS OF FRP BOLTS AND STEALTH® STAINLESS STEEL PANEL BOLTS. USE WASHER OR FLANGED HEAD BOLT, OR FASTENER WITH LARGE BEARING SURFACE.
4. PANELS WILL EXPAND AND CONTRACT DUE TO TEMPERATURE. WHEN INSTALLING PANELS IN COLD TEMPERATURES, EVENLY SPACE PANELS ALONG LENGTH OF SCREEN WALL WITH EQUAL GAPS BETWEEN PANELS TO ALLOW FOR EXPANSION DURING WARM TEMPERATURES.
5. ADJACENT FLAT PANELS ARE JOINED BY A VERTICAL FOAM SPLINE THAT IS INSERTED INTO GROOVES CUT INTO THE SIDE OF EACH PANEL. DO NOT LIFT PANELS BY GROOVES. PANELS MUST BE LIFTED WITH FORCE DIRECTED ONTO PANEL SURFACE.
6. ADJACENT RADIUS PANELS ARE JOINED BY A VERTICAL H-CHANNEL. INSERT PANELS INTO EACH SIDE OF H-CHANNEL.
7. RADIUS PANELS MUST BE EVENLY SPACED ALONG RADIUS SUPPORT. CONTRACTOR TO MEASURE LENGTH OF RADIUS SUPPORT AND DIVIDE BY THE NUMBER OF RADIUS PANELS TO DETERMINE PROPER SPACING. H-CHANNEL CONNECTORS ARE USED TO COVER THE GAP BETWEEN PANELS AND TO ALLOW FOR PANEL EXPANSION AND CONTRACTION.
8. SURFACES OF PANELS SHALL BE COATED WITH SUITABLE PAINT FOR UV PROTECTION. TOP EDGE OF PANEL MUST BE COVERED TO PREVENT WATER TRAVEL BETWEEN PANELS. USE SHERWIN WILLIAMS "COROTHANE II" OR PRE APPROVED EQUIVALENT.
9. EXPOSED TOP AND SIDE FOAM EDGES OF PANELS MUST BE COVERED OR COATED FOR UV PROTECTION. STEALTH® WILL PROVIDE PANEL EDGE CAPS (VERTICAL AND HORIZONTAL) TO BE FIELD APPLIED FOR THIS PURPOSE FOR MOST APPLICATIONS. HORIZONTAL AND VERTICAL PANEL EDGE CAPS TO BE SECURED TO THE EXPOSED EDGES OF THE PANELS WITH PROVIDED TEK SCREWS INSTALLED @ 12" MAXIMUM SPACING ON THE INSIDE FACE OF THE PANEL. IN RF SENSITIVE LOCATIONS, CONTRACTOR WILL APPLY (2) BEADS OF ADHESIVE TO EACH INSIDE CORNER OF THE EDGE CAP AND SECURE CAP TO PANEL WITH TAPE WHILE ADHESIVE CURES.
10. AT CORNER APPLICATIONS, VERTICAL PANEL EDGE CAPS ARE TO BE USED TO CAP BOTH EXPOSED EDGES (1 PER CUT EDGE OF PANELS). THESE EDGE CAPS ARE TO BE CUT 1" SHORTER THAN THE PANEL AND LEAVE 1" GAP AT THE TOP TO ALLOW ROOM FOR THE THE HORIZONTAL PANEL EDGE CAP AT THE TOP. CONTRACTOR TO APPLY (2) BEADS OF ADHESIVE TO EACH EDGE CAP (INSIDE CORNERS OF CAP), AND SECURE WITH TAPE AND/OR PROVIDED SCREWS (16 TOTAL PER CORNER) WHILE THE ADHESIVE CURES. IF CORNERS ARE IN NON-RF AREAS, EDGE CAP SCREWS CAN BE LEFT IN PLACE.
11. AT CORNER APPLICATIONS WITH SSV PANEL ONLY, CORNER CHANNELS ARE TO BE USED TO JOIN PANELS TOGETHER. BOTH ADJOINING PANELS WILL BE INSTERTED INTO THE CORNER CHANNEL AND SECURED USING PROVIDED NYLON PUSHPINS. THE PUSHPINS ARE TO BE PLACED ON THE INSIDE OF ONE OF THE PANELS ONLY @ 12" MAXIMUM SPACING.

COAX NOTE:

ROUTING THE LARGE QUANTITY OF COAX CABLES THROUGH THE CONCEALMENT BULKHEADS IS POSSIBLE (WHEN LAID OUT ON PAPER), BUT WILL BE VERY DIFFICULT IN REAL WORLD FIELD CONDITIONS. WHILE THE CABLES MAY PHYSICALLY FIT THROUGH THE BASE FLANGE ON TOP OF THE MONOPOLE AND THE SUBSEQUENT STEEL BULKHEADS ABOVE, ROUTING THEM PAST THE ANTENNAS IS UNPREDICTABLE, DEPENDING ON THE ANTENNA MOUNTING HARDWARE EMPLOYED, COAX CONNECTOR TYPE(S) USED, COAX ROUTING, AND RELATIVE AZIMUTH DIRECTIONS OF THE ANTENNAS IN THE POLE. STEALTH® CAN NOT GUARANTEE THAT ALL OF THE COAX CAN BE ROUTED WITHOUT INTERFERENCE TO SOME OR ALL ANTENNAS. IT IS HIGHLY RECOMMENDED THAT THE INSTALLER MOCK UP THE COAX RUNS WITHIN THE CONCEALMENT AND DEVELOP A COAX ROUTING PLAN PRIOR TO INSTALLATION.

VECTOR ENGINEERS
651 W. GALENA PARK BLVD., SUITE 101
DRAPER, UT 84020
P: (801) 990-1775 F: (801) 990-1776
VECTOR PROJECT: U0142-705-181
FL FIRM LICENSE NUMBER: COA 26626

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LICENSE
No 71060
STATE OF FLORIDA
PROFESSIONAL ENGINEER

09/17/2018

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TOLERANCES
DECIMALS X ± 1/16" .XXX ± 0.01"
ANGULAR X ± 0.5°

NOTES & SPECIFICATIONS

RG TOWERS
FT. PIERCE ORANGE AVE
TOP SECTION
2006 ORANGE AVENUE
FT. PIERCE, FL 34950

JOB #: RG18-01105W-05R1
DRAWN: LSB-VSE
DESIGNED: DJF-VSE
REVISED:

N1
9/17/18

REVISION
0

REVISION TABLE			
REVISION	DESIGNER	DATE	SCOPE OF REVISION
0	DJF-VSE	9-17-18	FINAL ENGINEERING

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TOLERANCES

DECIMALS
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X ± 0.5°

NOTES & SPECIFICATIONS

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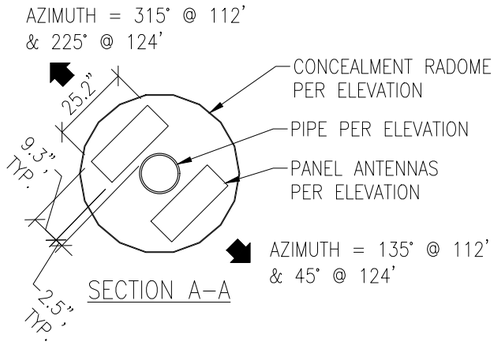
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DRAWN: LSB-VSE
DESIGNED: DJF-VSE
REVISED:

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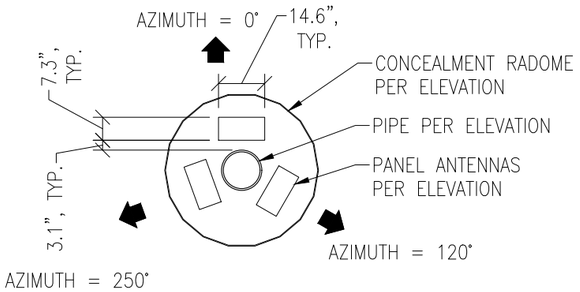
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DRAPER, UT 84020
P: (801) 990-1775 F: (801) 990-1776
VECTOR PROJECT: U0142-705-181
FL FIRM LICENSE NUMBER: COA 26626

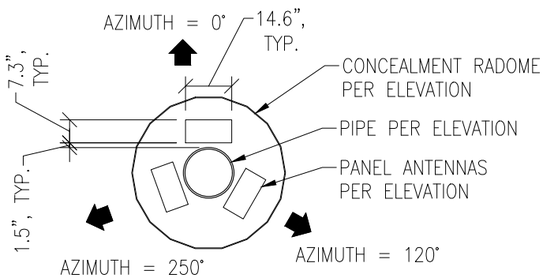
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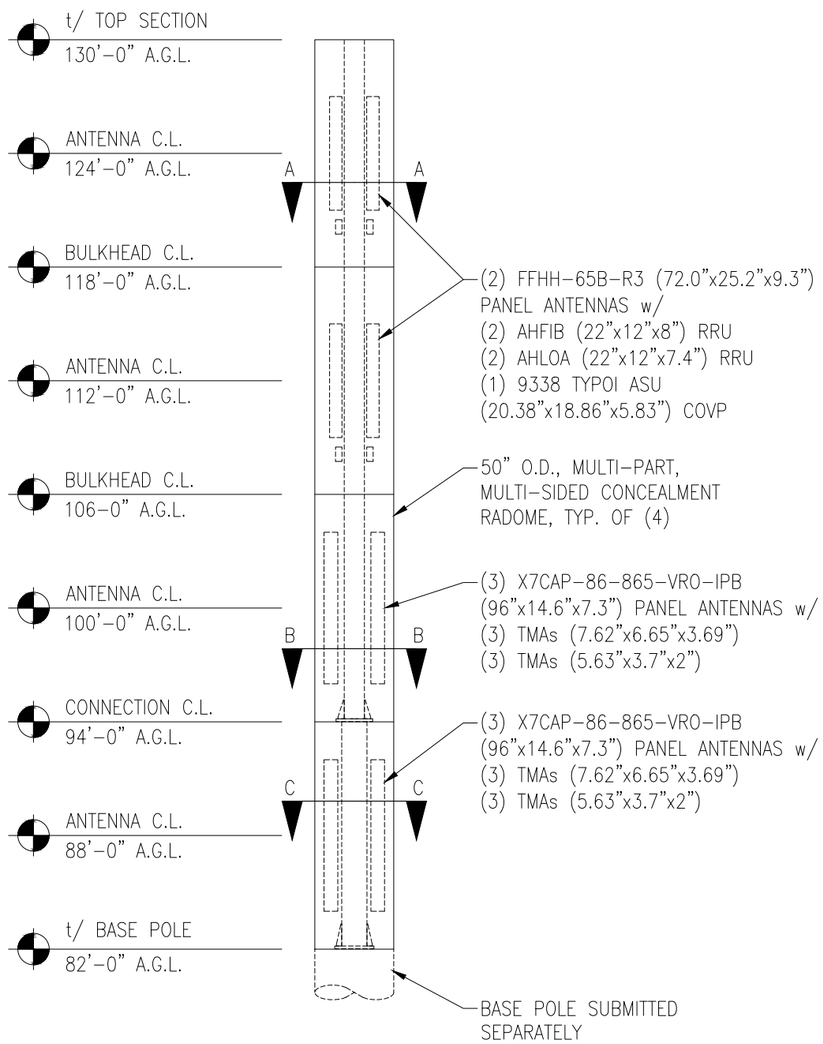
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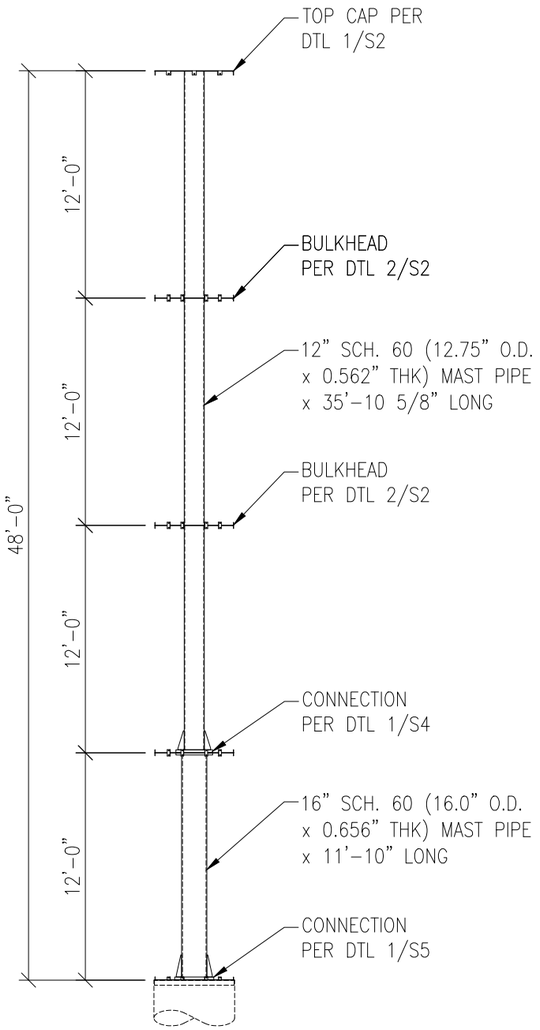
SECTION B–B



SECTION C–C



NOTE: POLE DESIGNED FOR 0'–0" FALL ZONE



ELEVATION VIEWS (1)

N.T.S.

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TOLERANCES
DECIMALS X ± 1/16" .XXX ± 0.01"
ANGULAR X ± 0.5°

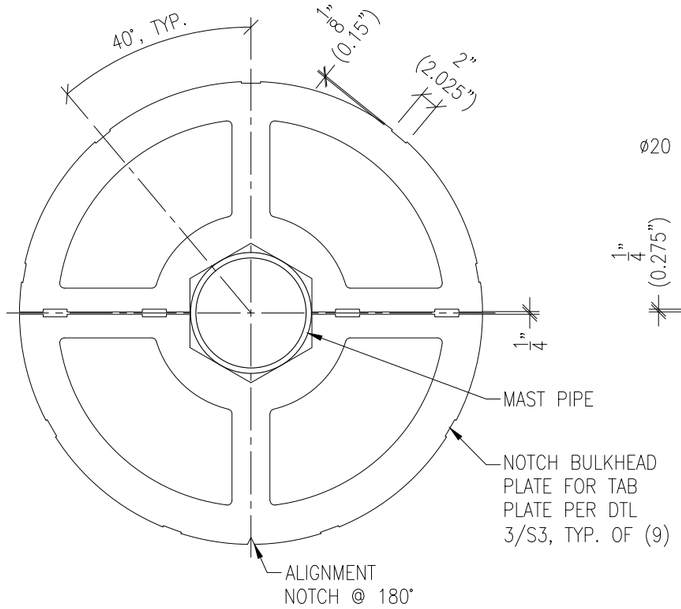
ELEVATIONS

RG TOWERS
FT. PIERCE ORANGE AVE
TOP SECTION
2006 ORANGE AVENUE
FT. PIERCE, FL 34950

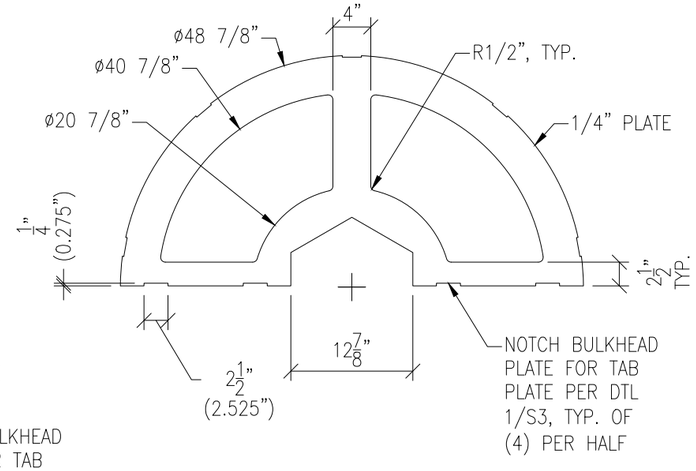
JOB #: RG18-01105W-05R1
DRAWN: LSB-VSE
DESIGNED: DJF-VSE
REVISED:

S1
9/17/18

REVISION 0



PLAN VIEW – BOTH HALVES

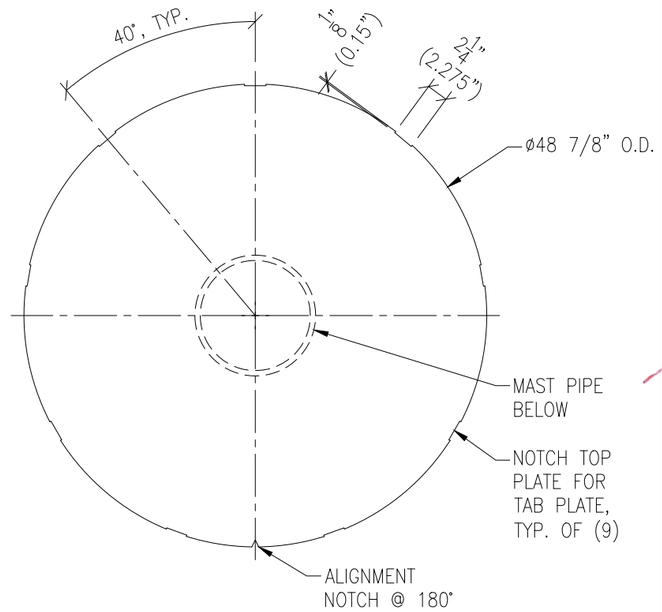


PLAN VIEW – ONE HALF

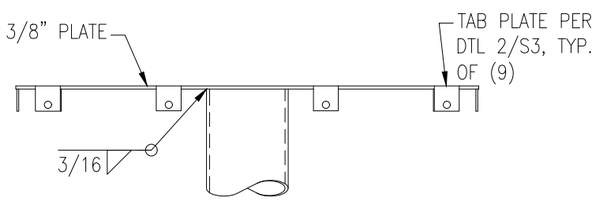
BULKHEAD

N.T.S.

2



PLAN VIEW



ELEVATION VIEW

TOP PLATE

N.T.S.

1

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TOLERANCES

DECIMALS
X ± 1/16"
.XXX ± 0.01"

ANGULAR
X ± 0.5°

DETAILS

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TOP SECTION
2006 ORANGE AVENUE
FT. PIERCE, FL 34950

JOB #: RG18-01105W-05R1
DRAWN: LSB-VSE
DESIGNED: DJF-VSE
REVISED:

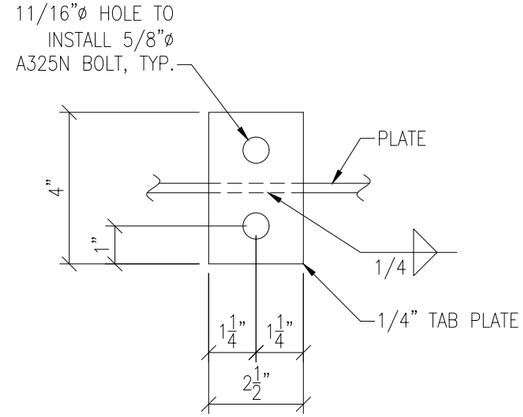
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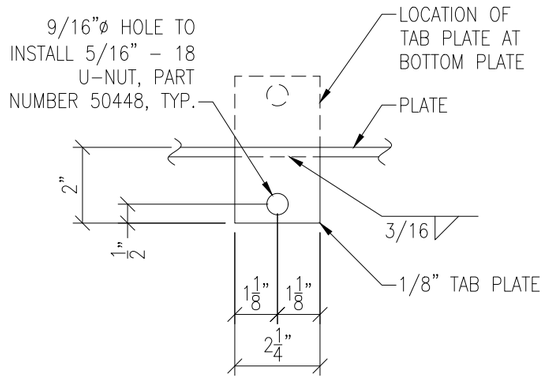
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FL FIRM LICENSE NUMBER: COA 26626

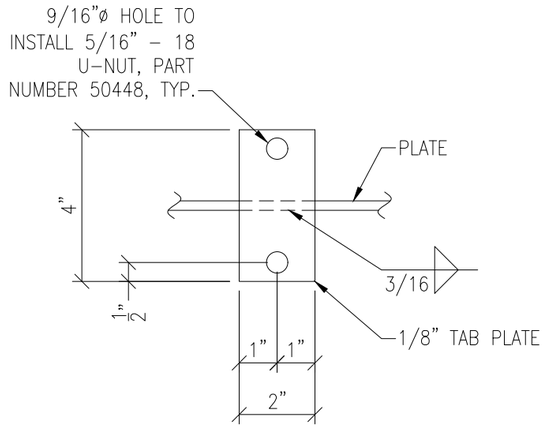
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N.T.S. **1**



N.T.S. **2**



N.T.S. **3**

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TOLERANCES

DECIMALS	ANGULAR
X ± 1/16"	X ± 0.5°
.XXX ± 0.01"	

DETAILS

RG TOWERS
FT. PIERCE ORANGE AVE
TOP SECTION
2006 ORANGE AVENUE
FT. PIERCE, FL 34950

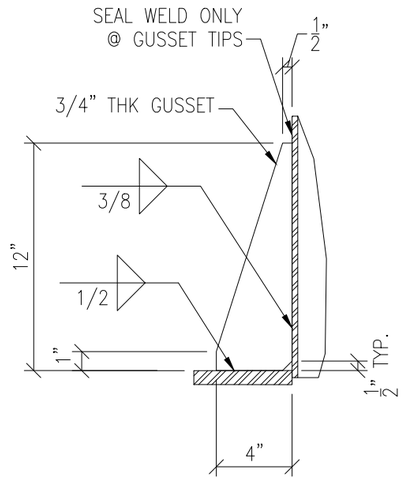
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DESIGNED: DJF-VSE
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SECTION B–B

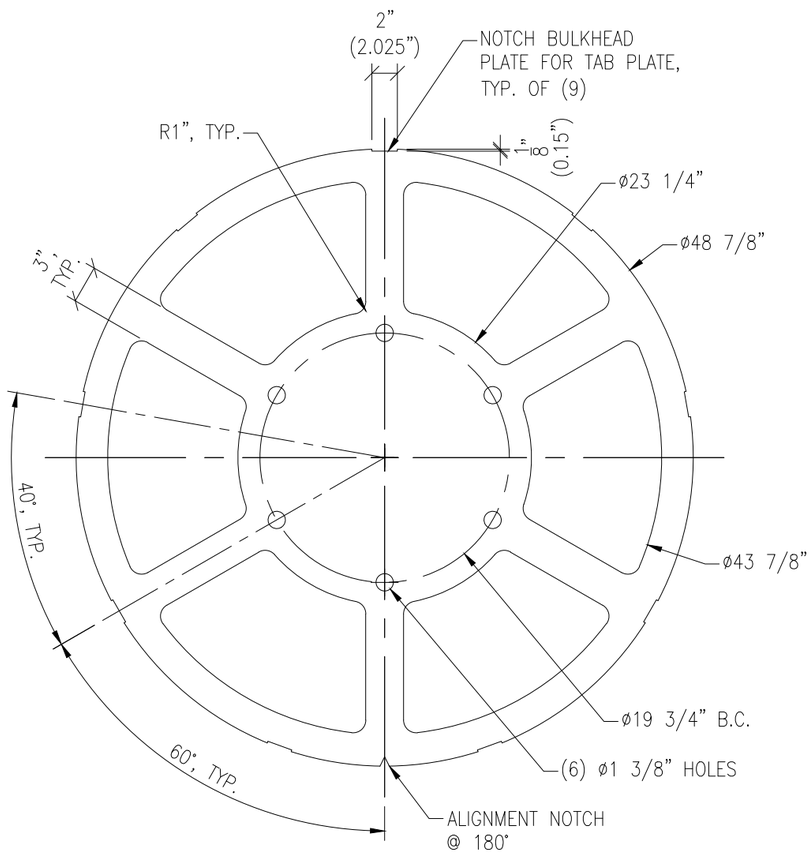
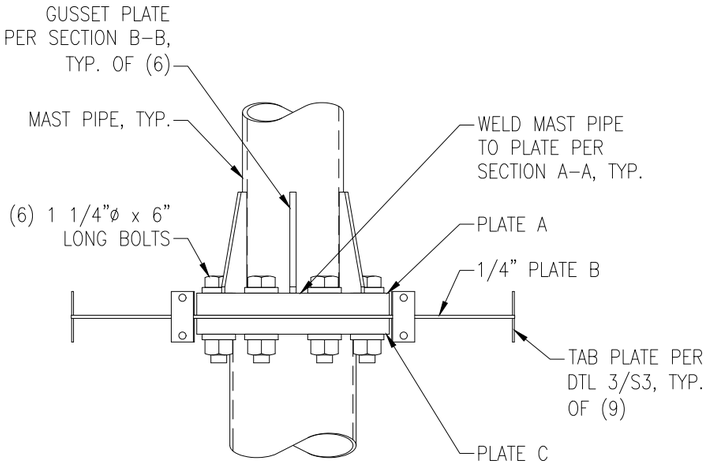
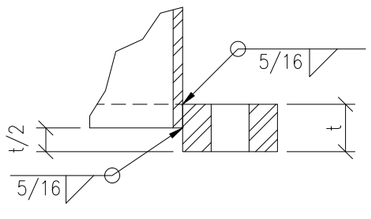


PLATE B



ELEVATION VIEW



SECTION A–A

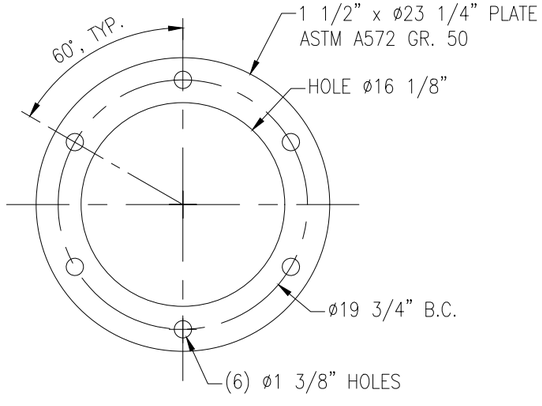


PLATE C

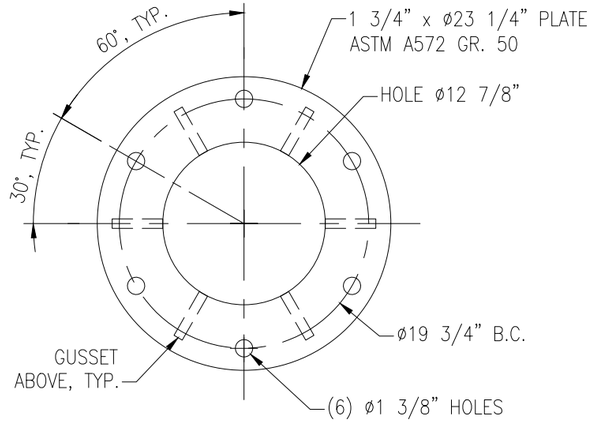


PLATE A

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09/17/2018

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TOLERANCES
DECIMALS
X ± 1/16"
.XXX ± 0.01"
ANGULAR
X ± 0.5°

DETAILS

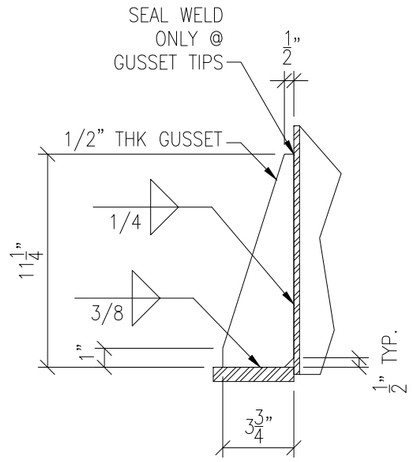
RG TOWERS
FT. PIERCE ORANGE AVE
TOP SECTION
2006 ORANGE AVENUE
FT. PIERCE, FL 34950

JOB #: RG18-01105W-05R1
DRAWN: LSB-VSE
DESIGNED: DJF-VSE
REVISED:

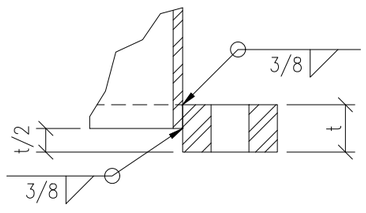
S4
9/17/18

REVISION
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SECTION B–B



SECTION A–A

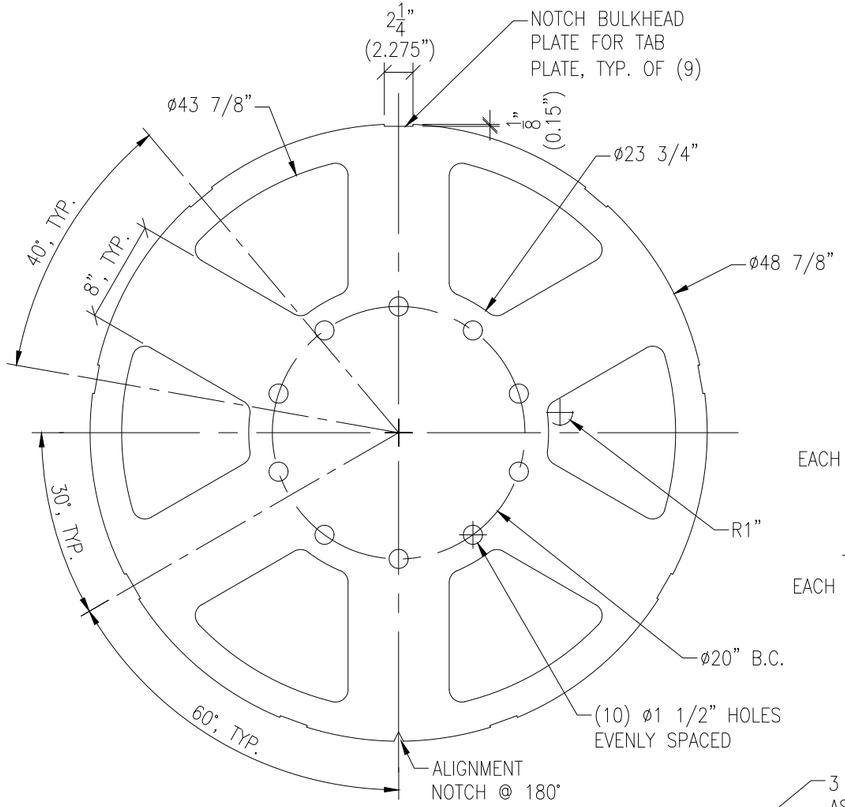
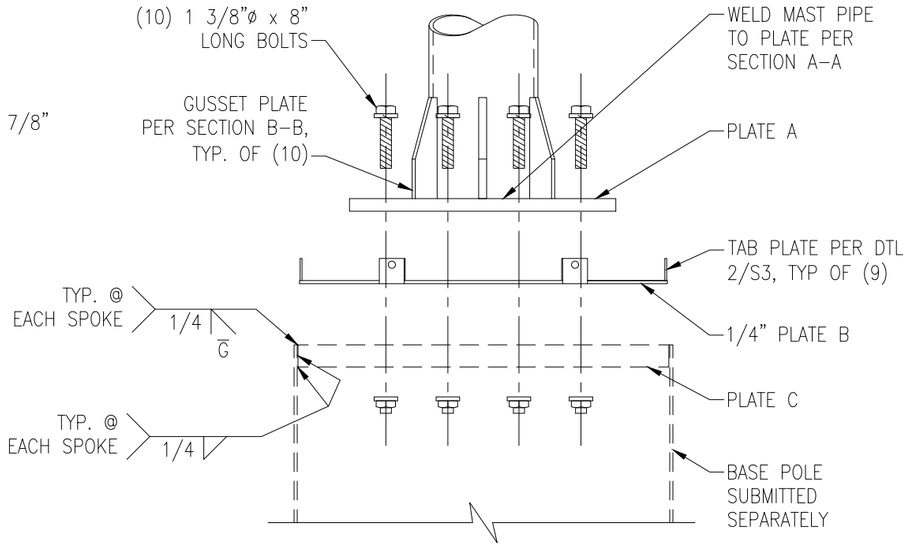


PLATE B



EXPLODED ELEVATION VIEW

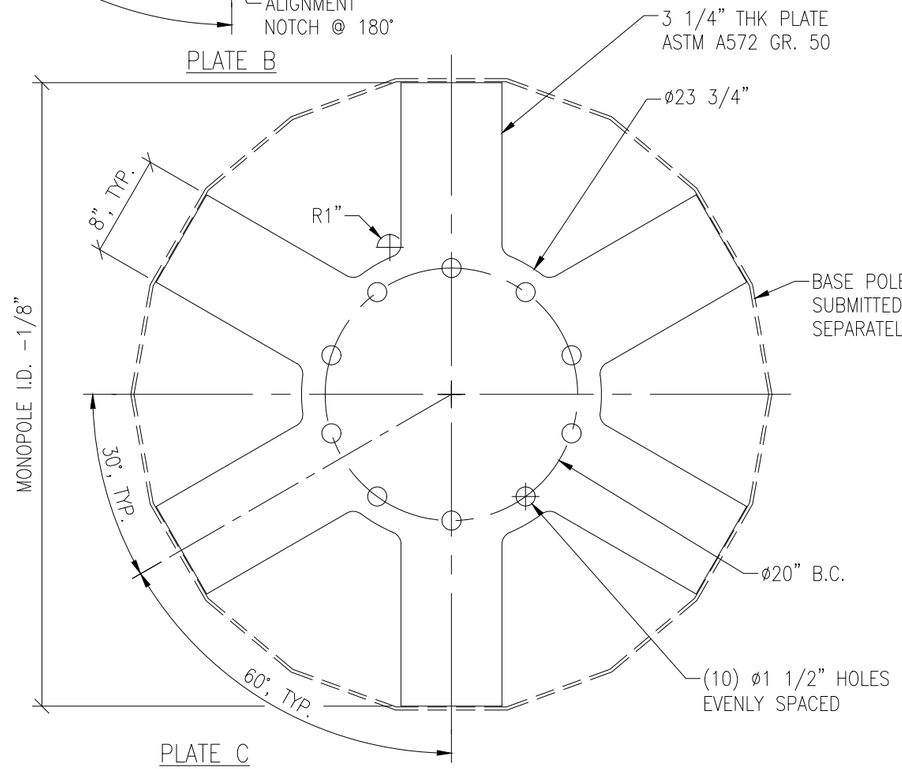


PLATE C

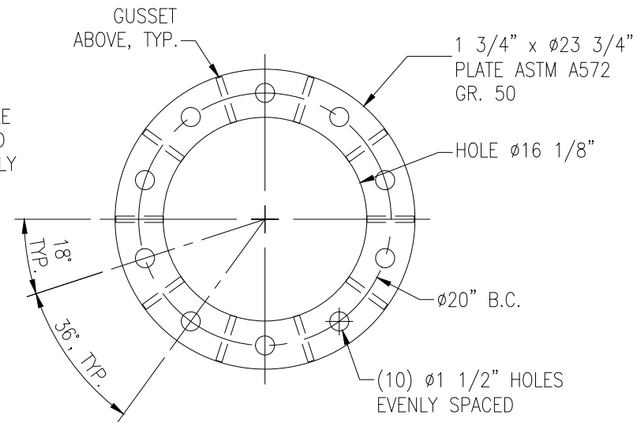


PLATE A

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1

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DECIMALS
X ± 1/16"
.XXX ± 0.01"
ANGULAR
X ± 0.5°

DETAILS

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FT. PIERCE ORANGE AVE
TOP SECTION
2006 ORANGE AVENUE
FT. PIERCE, FL 34950

JOB #: RG18-01105W-05R1
DRAWN: LSB-VSE
DESIGNED: DJF-VSE
REVISED:

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9/17/18

REVISION
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STRUCTURAL CALCULATIONS
for
FT. PIERCE ORANGE AVE
82'-0" TALL BASE POLE
at
2006 ORANGE AVENUE
FT. PIERCE, FL 34950
for
RG TOWERS
&
STEALTH® CONCEALMENT SOLUTIONS (RG18-01105W-05R1)



BY: **RUSSELL N. EMERY, P.E.**
PROJECT ENGINEER

FL Firm License Number: COA 26626

PROJECT #: **U0142-705-181**

DATE: **September 13, 2018**

DESIGNED BY DJF; CHECKED BY RNE

NOTE:
The calculations presented in this package are intended for a single use at the location indicated above, for the client listed above. These calculations shall not be reproduced, reused, "card filed", sold to a third party, or altered in any way without the written authorization of Vector Structural Engineering, LLC and STEALTH® Concealment Solutions.

JOB NO.: U0142-705-181

PROJECT: FT. PIERCE ORANGE AVE

Design Criteria:

Code: Structural design is based on the Florida Building Code, 2017 Edition (2015 IBC)

Wind: Basic wind speed = 159 mph (3-second gust) per the ASCE 7-10 standard
Risk category / Structure class: II
Wind exposure: C
Topographic category: 1
Crest height: 0 ft

Ice: None per the TIA-222-G standard

General Notes:

1 The contractor shall verify dimensions, conditions and elevations before starting work. The engineer shall be notified immediately if any discrepancies are found.
2 The typical notes and details shall apply in all cases unless specifically detailed elsewhere. Where no detail is shown, the construction shall be as shown for other similar work and as required by the building code.
3 These calculations are limited to the structural members shown in these calculations only.
4 The contractor shall be responsible for compliance with local construction safety orders. Approval of shop drawings by the architect or structural engineer shall not be construed as accepting this responsibility.
5 All structural framing members shall be adequately shored and braced during erection and until full lateral and vertical support is provided by adjoining members.

Structural Steel:

1 All structural steel code checks based on the AISC-LRFD, 3rd Edition per the TIA-222-G standard
2 All 18-sided, tapered shaft steel to be per ASTM A572 GR. 65, U.N.O.
3 The design length of slip splices is equal to 1.67 times the inside width of the base of the upper section. Slip splice length tolerance is equal to ± 10% of the design slip splice length.
4 All other structural steel shapes & plates shall be per ASTM A36, U.N.O.
5 All anchor bolts shall be per ASTM A615 GR. 75, U.N.O.
6 All bolts for steel-to-steel connections shall be per ASTM F3125 GR. A325 U.N.O.
7 All bolted connections shall be tightened per the "turn-of-nut" method as defined by AISC.
8 All welding shall be performed by certified welders in accordance with the latest edition of the American Welding Society (AWS) D1.1
9 All steel surfaces shall be galvanized in accordance with ASTM A123 and ASTM F2329 standards, thoroughly coated with a zinc-rich primer, or otherwise protected as noted on the structural drawings.

JOB NO.: U0142-705-181

PROJECT: FT. PIERCE ORANGE AVE

Foundation / Concrete:

1 All concrete mixing, placement, forming, and reinforcing installation shall be performed in accordance with the requirements of “Building Code Requirements for Reinforced Concrete”, ACI 318-14. Foundation installation shall be in accordance with the requirements of "Standard Specifications for the Construction of Drilled Piers", ACI 336, latest edition

2 All concrete shall have a minimum compressive strength of 4000 psi at 28 days.

3 Cement for all concrete shall be Type II with 6% (+/- 1.5%) entrained air. Maximum aggregate size shall be ¾".

4 Reinforcing steel shall be per ASTM A615 Gr. 60, U.N.O.

5 Foundation design is based upon the project soils report prepared by:

Geotech: Environmental Corporation of America
Report No: T4300
Date: 22-Aug-18

JOB NO.: U0142-705-181

PROJECT: FT. PIERCE ORANGE AVE

User Forces

Ice Thickness[in]:	0.00	
Ice Density [pcf]:	56	
Cylinder Shape:	18-Sided	
Shape Factor:	0.65	(supercritical)
	1.20	(subcritical)

Elev. @ Top of Base Pole [ft]:	82.0
Elev. @ Bottom of Base Pole [ft]:	1.0

		Diameter [in]			Weight [lb]		CaAc [ft^2]	
Cylinder	Length [ft]	No Ice	w/ Ice	Plates	No Ice	w/ Ice	No Ice	w/ Ice
				Top Plate	370	370	16.5	30.5
1	12.0	50	50.00					
				Bulkhead	520	520	33.0	60.9
2	12.0	50	50.00					
				Bulkhead	520	520	33.0	60.9
3	12.0	50	50.00					
				Bulkhead	520	520	33.0	60.9
4	12.0	50	50.00					
				Bottom Plate	370	370	16.5	30.5
					0	0	0.0	0.0
					0	0	0.0	0.0
					0	0	0.0	0.0
					0	0	0.0	0.0

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Top Plate	130	(3) Generic Panel 100# (enclosed)	100
(3) Generic Equipment (Enclosed)	124	(3) Generic Equipment (Enclosed)	100
(3) Generic Panel 105# (enclosed)	124	Bulkhead	94
Bulkhead	118	(3) Generic Equipment (Enclosed)	88
(3) Generic Panel 100# (enclosed)	112	(3) Generic Panel 100# (enclosed)	88
(3) Generic Equipment (Enclosed)	112	Bottom Plate	82
Bulkhead	106	Coax _Mast	82

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-G Standard.
2. Tower designed for a 159 mph basic wind in accordance with the TIA-222-G Standard.
3. Deflections are based upon a 60 mph wind.
4. Tower Risk Category II.
5. Topographic Category 1 with Crest Height of 0.00 ft
6. TOWER RATING: 46.9%

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (lb)
1	36.00	18	0.3125	7.58	50.0000	55.0400	A572-65	6343.5
2	52.58	18	0.3125		53.3538	60.7150		10066.2
								16409.6



ALL REACTIONS ARE FACTORED

AXIAL 40043 lb

SHEAR 28439 lb

MOMENT 1940314 lb-ft

REACTIONS - 159 mph WIND

Vector Structural Engineering
651 West Galena Park BLVD
Draper, UT 84020
Phone: (801) 990-1775
FAX:

Job: ***Ft. Pierce Orave Ave***			
Project: ***U0142-705-181***			
Client: STEALTH® Concealment Solutions	Drawn by: dfoulger	App'd:	
Code: TIA-222-G	Date: 09/13/18	Scale: NTS	
Path:		Dwg No. E-1	

Tower Input Data

The tower is a monopole.
This tower is designed using the TIA-222-G standard.
The following design criteria apply:

- ASCE 7-10 Wind Data is used.
- Basic wind speed of 159 mph.
- Risk Category II.
- Exposure Category C.
- Topographic Category 1.
- Crest Height 0.00 ft.
- Deflections calculated using a wind speed of 60 mph.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	82.00-46.00	36.00	7.58	18	50.0000	55.0400	0.3125	1.2500	A572-65 (65 ksi)
L2	46.00-1.00	52.58		18	53.3538	60.7150	0.3125	1.2500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	50.7231	49.2838	15372.1931	17.6391	25.4000	605.2045	30764.6134	24.6466	8.2500	26.4
	55.8409	54.2828	20540.5100	19.4283	27.9603	734.6307	41108.0478	27.1466	9.1370	29.239
L2	55.2062	52.6103	18699.7962	18.8297	27.1037	689.9344	37424.1981	26.3102	8.8403	28.289
	61.6034	59.9117	27615.8959	21.4429	30.8432	895.3636	55268.1294	29.9616	10.1358	32.435

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 82.00-46.00				1	1	1			
L2 46.00-1.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Total Number		C_AA_A ft²/ft	Weight plf
1 5/8 Coax	C	No	Inside Pole	82.00 - 1.00	12	No Ice	0.00	0.72
1 5/8 Coax	C	No	Inside Pole	82.00 - 1.00	12	No Ice	0.00	0.72
1 5/8 Coax	C	No	Inside Pole	82.00 - 1.00	12	No Ice	0.00	0.72
1 5/8 Coax	C	No	Inside Pole	82.00 - 1.00	12	No Ice	0.00	0.72

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft²	A_F ft²	C_AA_A In Face ft²	C_AA_A Out Face ft²	Weight lb
L1	82.00-46.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	1244.16
L2	46.00-1.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	1555.20

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice

User Defined Loads

Description	Elevation ft	Offset From Centroid ft	Azimuth Angle °		Weight lb	F_x lb	F_z lb	Wind Force lb	C_AA_C ft²
Top Plate	130.00	0.00	0.0000	No Ice	370.00	0.00	0.00	**1492.54**	16.50
				Service	370.00	0.00	0.00	**190.16**	16.50
Bulkhead	118.00	0.00	0.0000	No Ice	520.00	0.00	0.00	**2924.83**	33.00
				Service	520.00	0.00	0.00	**372.65**	33.00
Bulkhead	106.00	0.00	0.0000	No Ice	520.00	0.00	0.00	**2859.53**	33.00
				Service	520.00	0.00	0.00	**364.33**	33.00
Bulkhead	94.00	0.00	0.0000	No Ice	520.00	0.00	0.00	**2788.11**	33.00
				Service	520.00	0.00	0.00	**355.23**	33.00
Bottom Plate	82.00	0.00	0.0000	No Ice	370.00	0.00	0.00	**1354.54**	16.50
				Service	370.00	0.00	0.00	**172.58**	16.50
Coax & Mast	82.00	0.00	0.0000	No Ice	10000.00	0.00	0.00	**0.00**	0.00
				Service	10000.00	0.00	0.00	**0.00**	0.00

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight lb
(3) Generic Panel 105# (enclosed)	C	None		0.0000	124.00	No Ice	0.00	0.00	105.00
(3) Generic Panel 100# (enclosed)	C	None		0.0000	112.00	No Ice	0.00	0.00	105.00
(3) Generic Panel 100# (enclosed)	C	None		0.0000	100.00	No Ice	0.00	0.00	105.00
(3) Generic Panel 100# (enclosed)	C	None		0.0000	88.00	No Ice	0.00	0.00	105.00
(3) Generic Equipment (Enclosed)	C	None		0.0000	124.00	No Ice	0.00	0.00	50.00
(3) Generic Equipment (Enclosed)	C	None		0.0000	112.00	No Ice	0.00	0.00	50.00
(3) Generic Equipment (Enclosed)	C	None		0.0000	100.00	No Ice	0.00	0.00	50.00
(3) Generic Equipment (Enclosed)	C	None		0.0000	88.00	No Ice	0.00	0.00	50.00

Tower Pressures - No Ice

$G_H = 1.100$

Section Elevation ft	z ft	K_Z	q_z psf	A_G ft^2	Face	A_F ft^2	A_R ft^2	A_{leg} ft^2	Leg %	C_AA_A In Face ft^2	C_AA_A Out Face ft^2
L1 82.00-46.00	63.98	1.152	71	159.846	A	0.000	159.846	159.846	100.00	0.000	0.000
					B	0.000	159.846		100.00	0.000	0.000
					C	0.000	159.846		100.00	0.000	0.000
L2 46.00-1.00	24.07	0.938	57	219.018	A	0.000	219.018	219.018	100.00	0.000	0.000
					B	0.000	219.018		100.00	0.000	0.000
					C	0.000	219.018		100.00	0.000	0.000

Tower Pressure - Service

$G_H = 1.100$

Section Elevation ft	z ft	K_Z	q_z psf	A_G ft^2	Face	A_F ft^2	A_R ft^2	A_{leg} ft^2	Leg %	C_AA_A In Face ft^2	C_AA_A Out Face ft^2
L1 82.00-46.00	63.98	1.152	9	159.846	A	0.000	159.846	159.846	100.00	0.000	0.000
					B	0.000	159.846		100.00	0.000	0.000
					C	0.000	159.846		100.00	0.000	0.000
L2 46.00-1.00	24.07	0.938	7	219.018	A	0.000	219.018	219.018	100.00	0.000	0.000
					B	0.000	219.018		100.00	0.000	0.000
					C	0.000	219.018		100.00	0.000	0.000

Tower Forces - No Ice - Wind Normal To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F lb	w plf	Ctrl. Face
L1	1244.16	6343.48	A	1	0.65	71	1	1	159.846	8074.74	224.30	C
82.00-46.00			B	1	0.65		1	1	159.846			
			C	1	0.65		1	1	159.846			
L2 46.00-1.00	1555.20	10066.16	A	1	0.65	57	1	1	219.018	8944.69	198.77	C
			B	1	0.65		1	1	219.018			
			C	1	0.65		1	1	219.018			
Sum Weight:	2799.36	16409.64						OTM	714921.05 lb-ft	17019.43		

Tower Forces - No Ice - Wind 45 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F lb	w plf	Ctrl. Face
L1	1244.16	6343.48	A	1	0.65	71	1	1	159.846	8074.74	224.30	C
82.00-46.00			B	1	0.65		1	1	159.846			
			C	1	0.65		1	1	159.846			
L2 46.00-1.00	1555.20	10066.16	A	1	0.65	57	1	1	219.018	8944.69	198.77	C
			B	1	0.65		1	1	219.018			
			C	1	0.65		1	1	219.018			
Sum Weight:	2799.36	16409.64						OTM	714921.05 lb-ft	17019.43		

Tower Forces - No Ice - Wind 60 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F lb	w plf	Ctrl. Face
L1	1244.16	6343.48	A	1	0.65	71	1	1	159.846	8074.74	224.30	C
82.00-46.00			B	1	0.65		1	1	159.846			
			C	1	0.65		1	1	159.846			
L2 46.00-1.00	1555.20	10066.16	A	1	0.65	57	1	1	219.018	8944.69	198.77	C
			B	1	0.65		1	1	219.018			
			C	1	0.65		1	1	219.018			
Sum Weight:	2799.36	16409.64						OTM	714921.05 lb-ft	17019.43		

Tower Forces - No Ice - Wind 90 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F lb	w plf	Ctrl. Face
L1	1244.16	6343.48	A	1	0.65	71	1	1	159.846	8074.74	224.30	C
82.00-46.00			B	1	0.65		1	1	159.846			
			C	1	0.65		1	1	159.846			
L2 46.00-1.00	1555.20	10066.16	A	1	0.65	57	1	1	219.018	8944.69	198.77	C
			B	1	0.65		1	1	219.018			
			C	1	0.65		1	1	219.018			
Sum Weight:	2799.36	16409.64						OTM	714921.05 lb-ft	17019.43		

Tower Forces - Service - Wind Normal To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F lb	w plf	Ctrl. Face
L1	1244.16	6343.48	A	1	0.65	9	1	1	159.846	1028.80	28.58	C
82.00-46.00			B	1	0.65		1	1	159.846			
			C	1	0.65		1	1	159.846			
L2 46.00-1.00	1555.20	10066.16	A	1	0.65	7	1	1	219.018	1139.64	25.33	C
			B	1	0.65		1	1	219.018			
			C	1	0.65		1	1	219.018			
Sum Weight:	2799.36	16409.64						OTM	91088.10 lb-ft	2168.45		

Tower Forces - Service - Wind 45 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F lb	w plf	Ctrl. Face
L1	1244.16	6343.48	A	1	0.65	9	1	1	159.846	1028.80	28.58	C
82.00-46.00			B	1	0.65		1	1	159.846			
			C	1	0.65		1	1	159.846			
L2 46.00-1.00	1555.20	10066.16	A	1	0.65	7	1	1	219.018	1139.64	25.33	C
			B	1	0.65		1	1	219.018			
			C	1	0.65		1	1	219.018			
Sum Weight:	2799.36	16409.64						OTM	91088.10 lb-ft	2168.45		

Tower Forces - Service - Wind 60 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F lb	w plf	Ctrl. Face
L1	1244.16	6343.48	A	1	0.65	9	1	1	159.846	1028.80	28.58	C
82.00-46.00			B	1	0.65		1	1	159.846			
			C	1	0.65		1	1	159.846			
L2 46.00-1.00	1555.20	10066.16	A	1	0.65	7	1	1	219.018	1139.64	25.33	C
			B	1	0.65		1	1	219.018			
			C	1	0.65		1	1	219.018			
Sum Weight:	2799.36	16409.64						OTM	91088.10 lb-ft	2168.45		

Tower Forces - Service - Wind 90 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C_F	q_z psf	D_F	D_R	A_E ft²	F lb	w plf	Ctrl. Face
L1	1244.16	6343.48	A	1	0.65	9	1	1	159.846	1028.80	28.58	C
82.00-46.00			B	1	0.65		1	1	159.846			
			C	1	0.65		1	1	159.846			
L2 46.00-1.00	1555.20	10066.16	A	1	0.65	7	1	1	219.018	1139.64	25.33	C
			B	1	0.65		1	1	219.018			
			C	1	0.65		1	1	219.018			
Sum Weight:	2799.36	16409.64						OTM	91088.10 lb-ft	2168.45		

Discrete Appurtenance Pressures - No Ice $G_H = 1.100$

Description	Aiming Azimuth °	Weight lb	$Offset_x$ ft	$Offset_z$ ft	z ft	K_z	q_z psf	C_AA_C Front ft²	C_AA_C Side ft²
Generic Panel 105# (enclosed)	0.0000	315.00	0.00	0.00	124.00	1.324	81	0.00	0.00
Generic Panel 100# (enclosed)	0.0000	315.00	0.00	0.00	112.00	1.296	80	0.00	0.00
Generic Panel 100# (enclosed)	0.0000	315.00	0.00	0.00	100.00	1.266	78	0.00	0.00
Generic Panel 100# (enclosed)	0.0000	315.00	0.00	0.00	88.00	1.232	76	0.00	0.00
Generic Equipment (Enclosed)	0.0000	150.00	0.00	0.00	124.00	1.324	81	0.00	0.00
Generic Equipment (Enclosed)	0.0000	150.00	0.00	0.00	112.00	1.296	80	0.00	0.00
Generic Equipment (Enclosed)	0.0000	150.00	0.00	0.00	100.00	1.266	78	0.00	0.00
Generic Equipment (Enclosed)	0.0000	150.00	0.00	0.00	88.00	1.232	76	0.00	0.00
	Sum Weight:	1860.00							

Discrete Appurtenance Pressures - Service $G_H = 1.100$

Description	Aiming Azimuth °	Weight lb	$Offset_x$ ft	$Offset_z$ ft	z ft	K_z	q_z psf	C_AA_C Front ft^2	C_AA_C Side ft^2
Generic Panel 105# (enclosed)	0.0000	315.00	0.00	0.00	124.00	1.324	10	0.00	0.00
Generic Panel 100# (enclosed)	0.0000	315.00	0.00	0.00	112.00	1.296	10	0.00	0.00
Generic Panel 100# (enclosed)	0.0000	315.00	0.00	0.00	100.00	1.266	10	0.00	0.00
Generic Panel 100# (enclosed)	0.0000	315.00	0.00	0.00	88.00	1.232	10	0.00	0.00
Generic Equipment (Enclosed)	0.0000	150.00	0.00	0.00	124.00	1.324	10	0.00	0.00
Generic Equipment (Enclosed)	0.0000	150.00	0.00	0.00	112.00	1.296	10	0.00	0.00
Generic Equipment (Enclosed)	0.0000	150.00	0.00	0.00	100.00	1.266	10	0.00	0.00
Generic Equipment (Enclosed)	0.0000	150.00	0.00	0.00	88.00	1.232	10	0.00	0.00
	Sum Weight:	1860.00							

Force Totals

Load Case	Vertical Forces lb	Sum of Forces X lb	Sum of Forces Z lb	Sum of Overturning Moments, M_x lb-ft	Sum of Overturning Moments, M_z lb-ft	Sum of Torques lb-ft
Leg Weight	16409.64					
Bracing Weight	0.00					
Total Member Self-Weight	16409.64			0.00	0.00	
Total Weight	33369.00			0.00	0.00	
Wind 0 deg - No Ice		0.00	-28438.98	-1918926.52	0.00	0.00
Wind 30 deg - No Ice		14219.49	-24628.88	-1661839.12	-959463.26	0.00
Wind 45 deg - No Ice		20109.40	-20109.40	-1356885.96	-1356885.96	0.00
Wind 60 deg - No Ice		24628.88	-14219.49	-959463.26	-1661839.12	0.00
Wind 90 deg - No Ice		28438.98	0.00	0.00	-1918926.52	0.00
Wind 120 deg - No Ice		24628.88	14219.49	959463.26	-1661839.12	0.00
Wind 135 deg - No Ice		20109.40	20109.40	1356885.96	-1356885.96	0.00
Wind 150 deg - No Ice		14219.49	24628.88	1661839.12	-959463.26	0.00
Wind 180 deg - No Ice		0.00	28438.98	1918926.52	0.00	0.00
Wind 210 deg - No Ice		-14219.49	24628.88	1661839.12	959463.26	0.00
Wind 225 deg - No Ice		-20109.40	20109.40	1356885.96	1356885.96	0.00
Wind 240 deg - No Ice		-24628.88	14219.49	959463.26	1661839.12	0.00
Wind 270 deg - No Ice		-28438.98	0.00	0.00	1918926.52	0.00
Wind 300 deg - No Ice		-24628.88	-14219.49	-959463.26	1661839.12	0.00
Wind 315 deg - No Ice		-20109.40	-20109.40	-1356885.96	1356885.96	0.00
Wind 330 deg - No Ice		-14219.49	-24628.88	-1661839.12	959463.26	0.00
Total Weight	33369.00			0.00	0.00	
Wind 0 deg - Service		0.00	-3623.41	-244490.46	0.00	0.00
Wind 30 deg - Service		1811.71	-3137.97	-211734.95	-122245.23	0.00
Wind 45 deg - Service		2562.14	-2562.14	-172880.86	-172880.86	0.00
Wind 60 deg - Service		3137.97	-1811.71	-122245.23	-211734.95	0.00
Wind 90 deg - Service		3623.41	0.00	0.00	-244490.46	0.00
Wind 120 deg - Service		3137.97	1811.71	122245.23	-211734.95	0.00
Wind 135 deg - Service		2562.14	2562.14	172880.86	-172880.86	0.00
Wind 150 deg - Service		1811.71	3137.97	211734.95	-122245.23	0.00

Load Case	Vertical Forces lb	Sum of Forces X lb	Sum of Forces Z lb	Sum of Overturning Moments, M_x lb-ft	Sum of Overturning Moments, M_z lb-ft	Sum of Torques lb-ft
Wind 180 deg - Service		0.00	3623.41	244490.46	0.00	0.00
Wind 210 deg - Service		-1811.71	3137.97	211734.95	122245.23	0.00
Wind 225 deg - Service		-2562.14	2562.14	172880.86	172880.86	0.00
Wind 240 deg - Service		-3137.97	1811.71	122245.23	211734.95	0.00
Wind 270 deg - Service		-3623.41	0.00	0.00	244490.46	0.00
Wind 300 deg - Service		-3137.97	-1811.71	-122245.23	211734.95	0.00
Wind 315 deg - Service		-2562.14	-2562.14	-172880.86	172880.86	0.00
Wind 330 deg - Service		-1811.71	-3137.97	-211734.95	122245.23	0.00

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 45 deg - No Ice
7	0.9 Dead+1.0 Wind 45 deg - No Ice
8	1.2 Dead+1.0 Wind 60 deg - No Ice
9	0.9 Dead+1.0 Wind 60 deg - No Ice
10	1.2 Dead+1.0 Wind 90 deg - No Ice
11	0.9 Dead+1.0 Wind 90 deg - No Ice
12	1.2 Dead+1.0 Wind 120 deg - No Ice
13	0.9 Dead+1.0 Wind 120 deg - No Ice
14	1.2 Dead+1.0 Wind 135 deg - No Ice
15	0.9 Dead+1.0 Wind 135 deg - No Ice
16	1.2 Dead+1.0 Wind 150 deg - No Ice
17	0.9 Dead+1.0 Wind 150 deg - No Ice
18	1.2 Dead+1.0 Wind 180 deg - No Ice
19	0.9 Dead+1.0 Wind 180 deg - No Ice
20	1.2 Dead+1.0 Wind 210 deg - No Ice
21	0.9 Dead+1.0 Wind 210 deg - No Ice
22	1.2 Dead+1.0 Wind 225 deg - No Ice
23	0.9 Dead+1.0 Wind 225 deg - No Ice
24	1.2 Dead+1.0 Wind 240 deg - No Ice
25	0.9 Dead+1.0 Wind 240 deg - No Ice
26	1.2 Dead+1.0 Wind 270 deg - No Ice
27	0.9 Dead+1.0 Wind 270 deg - No Ice
28	1.2 Dead+1.0 Wind 300 deg - No Ice
29	0.9 Dead+1.0 Wind 300 deg - No Ice
30	1.2 Dead+1.0 Wind 315 deg - No Ice
31	0.9 Dead+1.0 Wind 315 deg - No Ice
32	1.2 Dead+1.0 Wind 330 deg - No Ice
33	0.9 Dead+1.0 Wind 330 deg - No Ice
34	Dead+Wind 0 deg - Service
35	Dead+Wind 30 deg - Service
36	Dead+Wind 45 deg - Service
37	Dead+Wind 60 deg - Service
38	Dead+Wind 90 deg - Service
39	Dead+Wind 120 deg - Service
40	Dead+Wind 135 deg - Service
41	Dead+Wind 150 deg - Service
42	Dead+Wind 180 deg - Service
43	Dead+Wind 210 deg - Service

Comb. No.	Description
44	Dead+Wind 225 deg - Service
45	Dead+Wind 240 deg - Service
46	Dead+Wind 270 deg - Service
47	Dead+Wind 300 deg - Service
48	Dead+Wind 315 deg - Service
49	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft
L1	82 - 46	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	10	-23874.76	-702982.05	0.00
			Max. Mx	10	-23874.76	-702982.05	0.00
			Max. My	2	-23874.76	0.00	702982.05
			Max. Vy	10	18116.24	-702982.05	0.00
			Max. Vx	2	-18116.24	0.00	702982.05
			Max. Torque	8			0.00
L2	46 - 1	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	6	-40031.09	-1372009.36	1372009.36
			Max. Mx	10	-40031.08	-1940294.57	0.00
			Max. My	2	-40031.08	0.00	1940294.57
			Max. Vy	10	28455.17	-1940294.57	0.00
			Max. Vx	2	-28455.17	0.00	1940294.57
			Max. Torque	4			-0.00

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical lb	Horizontal, X lb	Horizontal, Z lb
Pole	Max. Vert	6	40042.80	-20109.38	20109.38
	Max. H_x	27	30032.10	28438.77	0.00
	Max. H_z	3	30032.10	0.00	28438.77
	Max. M_x	2	1940294.57	0.00	28438.69
	Max. M_z	10	1940294.57	-28438.69	0.00
	Max. Torsion	16	0.00	-14219.48	-24628.86
	Min. Vert	11	30032.10	-28438.77	0.00
	Min. H_x	11	30032.10	-28438.77	0.00
	Min. H_z	19	30032.10	0.00	-28438.77
	Min. M_x	18	-1940294.57	0.00	-28438.69
	Min. M_z	26	-1940294.57	28438.69	0.00
	Min. Torsion	4	-0.00	-14219.48	24628.86

Tower Mast Reaction Summary

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	lb	lb	lb	lb-ft	lb-ft	lb-ft
Dead Only	33369.00	0.00	0.00	0.00	0.00	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	40042.80	0.00	-28438.69	-1940294.57	0.00	0.00
0.9 Dead+1.0 Wind 0 deg - No Ice	30032.10	0.00	-28438.77	-1934878.87	0.00	0.00
1.2 Dead+1.0 Wind 30 deg - No Ice	40042.80	14219.48	-24628.86	-1680361.42	-970157.12	0.00
0.9 Dead+1.0 Wind 30 deg - No Ice	30032.10	14219.48	-24628.87	-1675666.28	-967446.38	0.00
1.2 Dead+1.0 Wind 45 deg - No Ice	40042.80	20109.38	-20109.38	-1372009.36	-1372009.36	0.00
0.9 Dead+1.0 Wind 45 deg - No Ice	30032.10	20109.39	-20109.39	-1368175.79	-1368175.79	0.00
1.2 Dead+1.0 Wind 60 deg - No Ice	40042.80	24628.86	-14219.48	-970157.12	-1680361.42	-0.00
0.9 Dead+1.0 Wind 60 deg - No Ice	30032.10	24628.87	-14219.48	-967446.38	-1675666.28	-0.00
1.2 Dead+1.0 Wind 90 deg - No Ice	40042.80	28438.69	0.00	0.00	-1940294.57	0.00
0.9 Dead+1.0 Wind 90 deg - No Ice	30032.10	28438.77	0.00	0.00	-1934878.87	0.00
1.2 Dead+1.0 Wind 120 deg - No Ice	40042.80	24628.86	14219.48	970157.12	-1680361.42	0.00
0.9 Dead+1.0 Wind 120 deg - No Ice	30032.10	24628.87	14219.48	967446.38	-1675666.28	0.00
1.2 Dead+1.0 Wind 135 deg - No Ice	40042.80	20109.38	20109.38	1372009.36	-1372009.36	0.00
0.9 Dead+1.0 Wind 135 deg - No Ice	30032.10	20109.39	20109.39	1368175.79	-1368175.79	0.00
1.2 Dead+1.0 Wind 150 deg - No Ice	40042.80	14219.48	24628.86	1680361.42	-970157.12	-0.00
0.9 Dead+1.0 Wind 150 deg - No Ice	30032.10	14219.48	24628.87	1675666.28	-967446.38	-0.00
1.2 Dead+1.0 Wind 180 deg - No Ice	40042.80	0.00	28438.69	1940294.57	0.00	0.00
0.9 Dead+1.0 Wind 180 deg - No Ice	30032.10	0.00	28438.77	1934878.87	0.00	0.00
1.2 Dead+1.0 Wind 210 deg - No Ice	40042.80	-14219.48	24628.86	1680361.42	970157.12	0.00
0.9 Dead+1.0 Wind 210 deg - No Ice	30032.10	-14219.48	24628.87	1675666.28	967446.38	0.00
1.2 Dead+1.0 Wind 225 deg - No Ice	40042.80	-20109.38	20109.38	1372009.36	1372009.36	0.00
0.9 Dead+1.0 Wind 225 deg - No Ice	30032.10	-20109.39	20109.39	1368175.79	1368175.79	0.00
1.2 Dead+1.0 Wind 240 deg - No Ice	40042.80	-24628.86	14219.48	970157.12	1680361.42	-0.00
0.9 Dead+1.0 Wind 240 deg - No Ice	30032.10	-24628.87	14219.48	967446.38	1675666.28	-0.00
1.2 Dead+1.0 Wind 270 deg - No Ice	40042.80	-28438.69	0.00	0.00	1940294.57	0.00
0.9 Dead+1.0 Wind 270 deg - No Ice	30032.10	-28438.77	0.00	0.00	1934878.87	0.00
1.2 Dead+1.0 Wind 300 deg - No Ice	40042.80	-24628.86	-14219.48	-970157.12	1680361.42	0.00
0.9 Dead+1.0 Wind 300 deg - No Ice	30032.10	-24628.87	-14219.48	-967446.38	1675666.28	0.00
1.2 Dead+1.0 Wind 315 deg - No Ice	40042.80	-20109.38	-20109.38	-1372009.36	1372009.36	0.00
0.9 Dead+1.0 Wind 315 deg - No Ice	30032.10	-20109.39	-20109.39	-1368175.79	1368175.79	0.00

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	lb	lb	lb	lb-ft	lb-ft	lb-ft
1.2 Dead+1.0 Wind 330 deg - No Ice	40042.80	-14219.48	-24628.86	-1680361.42	970157.12	-0.00
0.9 Dead+1.0 Wind 330 deg - No Ice	30032.10	-14219.48	-24628.87	-1675666.28	967446.38	-0.00
Dead+Wind 0 deg - Service	33369.00	0.00	-3623.09	-246740.29	0.00	0.00
Dead+Wind 30 deg - Service	33369.00	1811.55	-3137.69	-213683.36	-123370.14	0.00
Dead+Wind 45 deg - Service	33369.00	2561.91	-2561.91	-174471.73	-174471.73	0.00
Dead+Wind 60 deg - Service	33369.00	3137.69	-1811.55	-123370.14	-213683.36	-0.00
Dead+Wind 90 deg - Service	33369.00	3623.09	0.00	0.00	-246740.29	0.00
Dead+Wind 120 deg - Service	33369.00	3137.69	1811.55	123370.14	-213683.36	0.00
Dead+Wind 135 deg - Service	33369.00	2561.91	2561.91	174471.73	-174471.73	0.00
Dead+Wind 150 deg - Service	33369.00	1811.55	3137.69	213683.36	-123370.14	-0.00
Dead+Wind 180 deg - Service	33369.00	0.00	3623.09	246740.29	0.00	0.00
Dead+Wind 210 deg - Service	33369.00	-1811.55	3137.69	213683.36	123370.14	0.00
Dead+Wind 225 deg - Service	33369.00	-2561.91	2561.91	174471.73	174471.73	0.00
Dead+Wind 240 deg - Service	33369.00	-3137.69	1811.55	123370.14	213683.36	-0.00
Dead+Wind 270 deg - Service	33369.00	-3623.09	0.00	0.00	246740.29	0.00
Dead+Wind 300 deg - Service	33369.00	-3137.69	-1811.55	-123370.14	213683.36	0.00
Dead+Wind 315 deg - Service	33369.00	-2561.91	-2561.91	-174471.73	174471.73	0.00
Dead+Wind 330 deg - Service	33369.00	-1811.55	-3137.69	-213683.36	123370.14	-0.00

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX	PY	PZ	PX	PY	PZ	% Error
	lb	lb	lb	lb	lb	lb	
1	0.00	-33369.00	0.00	0.00	33369.00	0.00	0.000%
2	0.00	-40042.80	-28438.98	0.00	40042.80	28438.69	0.001%
3	0.00	-30032.10	-28438.98	0.00	30032.10	28438.77	0.001%
4	14219.49	-40042.80	-24628.88	-14219.48	40042.80	24628.86	0.000%
5	14219.49	-30032.10	-24628.88	-14219.48	30032.10	24628.87	0.000%
6	20109.40	-40042.80	-20109.40	-20109.38	40042.80	20109.38	0.000%
7	20109.40	-30032.10	-20109.40	-20109.39	30032.10	20109.39	0.000%
8	24628.88	-40042.80	-14219.49	-24628.86	40042.80	14219.48	0.000%
9	24628.88	-30032.10	-14219.49	-24628.87	30032.10	14219.48	0.000%
10	28438.98	-40042.80	0.00	-28438.69	40042.80	0.00	0.001%
11	28438.98	-30032.10	0.00	-28438.77	30032.10	0.00	0.001%
12	24628.88	-40042.80	14219.49	-24628.86	40042.80	-14219.48	0.000%
13	24628.88	-30032.10	14219.49	-24628.87	30032.10	-14219.48	0.000%
14	20109.40	-40042.80	20109.40	-20109.38	40042.80	-20109.38	0.000%
15	20109.40	-30032.10	20109.40	-20109.39	30032.10	-20109.39	0.000%
16	14219.49	-40042.80	24628.88	-14219.48	40042.80	-24628.86	0.000%
17	14219.49	-30032.10	24628.88	-14219.48	30032.10	-24628.87	0.000%
18	0.00	-40042.80	28438.98	0.00	40042.80	-28438.69	0.001%
19	0.00	-30032.10	28438.98	0.00	30032.10	-28438.77	0.001%
20	-14219.49	-40042.80	24628.88	14219.48	40042.80	-24628.86	0.000%
21	-14219.49	-30032.10	24628.88	14219.48	30032.10	-24628.87	0.000%
22	-20109.40	-40042.80	20109.40	20109.38	40042.80	-20109.38	0.000%
23	-20109.40	-30032.10	20109.40	20109.39	30032.10	-20109.39	0.000%
24	-24628.88	-40042.80	14219.49	24628.86	40042.80	-14219.48	0.000%
25	-24628.88	-30032.10	14219.49	24628.87	30032.10	-14219.48	0.000%
26	-28438.98	-40042.80	0.00	28438.69	40042.80	0.00	0.001%
27	-28438.98	-30032.10	0.00	28438.77	30032.10	0.00	0.001%
28	-24628.88	-40042.80	-14219.49	24628.86	40042.80	14219.48	0.000%
29	-24628.88	-30032.10	-14219.49	24628.87	30032.10	14219.48	0.000%
30	-20109.40	-40042.80	-20109.40	20109.38	40042.80	20109.38	0.000%
31	-20109.40	-30032.10	-20109.40	20109.39	30032.10	20109.39	0.000%
32	-14219.49	-40042.80	-24628.88	14219.48	40042.80	24628.86	0.000%

Load Comb.	Sum of Applied Forces PX lb	PY lb	PZ lb	Sum of Reactions PX lb	PY lb	PZ lb	% Error
33	-14219.49	-30032.10	-24628.88	14219.48	30032.10	24628.87	0.000%
34	0.00	-33369.00	-3623.41	0.00	33369.00	3623.09	0.001%
35	1811.71	-33369.00	-3137.97	-1811.55	33369.00	3137.69	0.001%
36	2562.14	-33369.00	-2562.14	-2561.91	33369.00	2561.91	0.001%
37	3137.97	-33369.00	-1811.71	-3137.69	33369.00	1811.55	0.001%
38	3623.41	-33369.00	0.00	-3623.09	33369.00	0.00	0.001%
39	3137.97	-33369.00	1811.71	-3137.69	33369.00	-1811.55	0.001%
40	2562.14	-33369.00	2562.14	-2561.91	33369.00	-2561.91	0.001%
41	1811.71	-33369.00	3137.97	-1811.55	33369.00	-3137.69	0.001%
42	0.00	-33369.00	3623.41	0.00	33369.00	-3623.09	0.001%
43	-1811.71	-33369.00	3137.97	1811.55	33369.00	-3137.69	0.001%
44	-2562.14	-33369.00	2562.14	2561.91	33369.00	-2561.91	0.001%
45	-3137.97	-33369.00	1811.71	3137.69	33369.00	-1811.55	0.001%
46	-3623.41	-33369.00	0.00	3623.09	33369.00	0.00	0.001%
47	-3137.97	-33369.00	-1811.71	3137.69	33369.00	1811.55	0.001%
48	-2562.14	-33369.00	-2562.14	2561.91	33369.00	2561.91	0.001%
49	-1811.71	-33369.00	-3137.97	1811.55	33369.00	3137.69	0.001%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	6	0.00000001	0.00000001
2	Yes	7	0.00000001	0.00004645
3	Yes	7	0.00000001	0.00004259
4	Yes	8	0.00000001	0.00004973
5	Yes	8	0.00000001	0.00004139
6	Yes	8	0.00000001	0.00005732
7	Yes	8	0.00000001	0.00004770
8	Yes	8	0.00000001	0.00004973
9	Yes	8	0.00000001	0.00004139
10	Yes	7	0.00000001	0.00004645
11	Yes	7	0.00000001	0.00004259
12	Yes	8	0.00000001	0.00004973
13	Yes	8	0.00000001	0.00004139
14	Yes	8	0.00000001	0.00005732
15	Yes	8	0.00000001	0.00004770
16	Yes	8	0.00000001	0.00004973
17	Yes	8	0.00000001	0.00004139
18	Yes	7	0.00000001	0.00004645
19	Yes	7	0.00000001	0.00004259
20	Yes	8	0.00000001	0.00004973
21	Yes	8	0.00000001	0.00004139
22	Yes	8	0.00000001	0.00005732
23	Yes	8	0.00000001	0.00004770
24	Yes	8	0.00000001	0.00004973
25	Yes	8	0.00000001	0.00004139
26	Yes	7	0.00000001	0.00004645
27	Yes	7	0.00000001	0.00004259
28	Yes	8	0.00000001	0.00004973
29	Yes	8	0.00000001	0.00004139
30	Yes	8	0.00000001	0.00005732
31	Yes	8	0.00000001	0.00004770
32	Yes	8	0.00000001	0.00004973
33	Yes	8	0.00000001	0.00004139
34	Yes	6	0.00000001	0.00005744

35	Yes	6	0.00000001	0.00005685
36	Yes	6	0.00000001	0.00005666
37	Yes	6	0.00000001	0.00005685
38	Yes	6	0.00000001	0.00005744
39	Yes	6	0.00000001	0.00005685
40	Yes	6	0.00000001	0.00005666
41	Yes	6	0.00000001	0.00005685
42	Yes	6	0.00000001	0.00005744
43	Yes	6	0.00000001	0.00005685
44	Yes	6	0.00000001	0.00005666
45	Yes	6	0.00000001	0.00005685
46	Yes	6	0.00000001	0.00005744
47	Yes	6	0.00000001	0.00005685
48	Yes	6	0.00000001	0.00005666
49	Yes	6	0.00000001	0.00005685

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	82 - 46	1.300	34	0.1260	0.0000
L2	53.58 - 1	0.624	34	0.0981	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
130.00	Top Plate	34	1.300	0.1260	0.0000	154361
124.00	(3) Generic Panel 105# (enclosed)	34	1.300	0.1260	0.0000	154361
118.00	Bulkhead	34	1.300	0.1260	0.0000	154361
112.00	(3) Generic Panel 100# (enclosed)	34	1.300	0.1260	0.0000	154361
106.00	Bulkhead	34	1.300	0.1260	0.0000	154361
100.00	(3) Generic Panel 100# (enclosed)	34	1.300	0.1260	0.0000	154361
94.00	Bulkhead	34	1.300	0.1260	0.0000	154361
88.00	(3) Generic Panel 100# (enclosed)	34	1.300	0.1260	0.0000	154361
82.00	Bottom Plate	34	1.300	0.1260	0.0000	154361

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	82 - 46	10.226	10	0.9911	0.0000
L2	53.58 - 1	4.907	10	0.7717	0.0000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
130.00	Top Plate	10	10.226	0.9911	0.0000	19635
124.00	(3) Generic Panel 105# (enclosed)	10	10.226	0.9911	0.0000	19635
118.00	Bulkhead	10	10.226	0.9911	0.0000	19635
112.00	(3) Generic Panel 100# (enclosed)	10	10.226	0.9911	0.0000	19635
106.00	Bulkhead	10	10.226	0.9911	0.0000	19635
100.00	(3) Generic Panel 100# (enclosed)	10	10.226	0.9911	0.0000	19635
94.00	Bulkhead	10	10.226	0.9911	0.0000	19635
88.00	(3) Generic Panel 100# (enclosed)	10	10.226	0.9911	0.0000	19635
82.00	Bottom Plate	10	10.226	0.9911	0.0000	19635

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
L1	82 - 80.5042	TP55.04x50x0.3125	36.00	0.00	0.0	49.4915	-17150.60	3127360.00	0.005
	80.5042 - 79.0084					49.6992	-17511.50	3134280.00	0.006
	79.0084 - 77.5126					49.9069	-17873.80	3141150.00	0.006
	77.5126 - 76.0168					50.1146	-18237.60	3147970.00	0.006
	76.0168 - 74.5211					50.3223	-18602.90	3154730.00	0.006
	74.5211 - 73.0253					50.5300	-18969.60	3161450.00	0.006
	73.0253 - 71.5295					50.7378	-19337.90	3168110.00	0.006
	71.5295 - 70.0337					50.9455	-19707.60	3174720.00	0.006
	70.0337 - 68.5379					51.1532	-20078.80	3181270.00	0.006
	68.5379 - 67.0421					51.3609	-20451.50	3187780.00	0.006
	67.0421 - 65.5463					51.5686	-20825.70	3194230.00	0.007
	65.5463 - 64.0505					51.7763	-21201.40	3200640.00	0.007
	64.0505 - 62.5547					51.9840	-21578.70	3206990.00	0.007
	62.5547 - 61.0589					52.1917	-21957.50	3213280.00	0.007
	61.0589 - 59.5632					52.3994	-22337.80	3219530.00	0.007
	59.5632 - 58.0674					52.6071	-22719.70	3225720.00	0.007
	58.0674 - 56.5716					52.8148	-23103.20	3231870.00	0.007
	56.5716 - 55.0758					53.0226	-23488.20	3237960.00	0.007
	55.0758 -					53.2303	-23874.70	3244000.00	0.007

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
	53.58								
	53.58 - 46					54.2828	-13894.20	3273800.00	0.004
L2	53.58 - 46	TP60.715x53.3538x0.3125	52.58	0.00	0.0	53.6629	-13589.70	3256410.00	0.004
	46 - 43.6316					53.9918	-28109.00	3265690.00	0.009
	43.6316 - 41.2632					54.3207	-28735.50	3274850.00	0.009
	41.2632 - 38.8947					54.6496	-29366.20	3283870.00	0.009
	38.8947 - 36.5263					54.9785	-30001.00	3292770.00	0.009
	36.5263 - 34.1579					55.3073	-30640.00	3301530.00	0.009
	34.1579 - 31.7895					55.6362	-31283.20	3310170.00	0.009
	31.7895 - 29.4211					55.9651	-31930.60	3318670.00	0.010
	29.4211 - 27.0526					56.2940	-32582.20	3327050.00	0.010
	27.0526 - 24.6842					56.6229	-33238.00	3335290.00	0.010
	24.6842 - 22.3158					56.9518	-33898.10	3343410.00	0.010
	22.3158 - 19.9474					57.2807	-34562.40	3351390.00	0.010
	19.9474 - 17.5789					57.6095	-35231.00	3359240.00	0.010
	17.5789 - 15.2105					57.9384	-35903.90	3366970.00	0.011
	15.2105 - 12.8421					58.2673	-36581.00	3374560.00	0.011
	12.8421 - 10.4737					58.5962	-37262.50	3382030.00	0.011
	10.4737 - 8.10526					58.9251	-37948.20	3389360.00	0.011
	8.10526 - 5.73684					59.2540	-38638.20	3396570.00	0.011
	5.73684 - 3.36842					59.5828	-39332.50	3403640.00	0.012
	3.36842 - 1					59.9117	-40031.10	3410580.00	0.012

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} lb-ft	ϕM_{nx} lb-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} lb-ft	ϕM_{ny} lb-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	82 - 80.5042	TP55.04x50x0.3125	296793.33	3213908.33	0.092	0.00	3213908.33	0.000
	80.5042 - 79.0084		315070.83	3234616.67	0.097	0.00	3234616.67	0.000
	79.0084 - 77.5126		333853.33	3255341.67	0.103	0.00	3255341.67	0.000
	77.5126 - 76.0168		353142.50	3276066.67	0.108	0.00	3276066.67	0.000
	76.0168 - 74.5211		372936.67	3296800.00	0.113	0.00	3296800.00	0.000
	74.5211 - 73.0253		393235.83	3317533.33	0.119	0.00	3317533.33	0.000

Section No.	Elevation	Size	M_{ux}	ϕM_{nx}	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy}	ϕM_{ny}	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	ft		lb-ft	lb-ft		lb-ft	lb-ft	
	73.0253 - 71.5295		414040.83	3338275.00	0.124	0.00	3338275.00	0.000
	71.5295 - 70.0337		435350.00	3359016.67	0.130	0.00	3359016.67	0.000
	70.0337 - 68.5379		457163.33	3379758.33	0.135	0.00	3379758.33	0.000
	68.5379 - 67.0421		479481.67	3400500.00	0.141	0.00	3400500.00	0.000
	67.0421 - 65.5463		502303.33	3421250.00	0.147	0.00	3421250.00	0.000
	65.5463 - 64.0505		525629.17	3442000.00	0.153	0.00	3442000.00	0.000
	64.0505 - 62.5547		549458.33	3462741.67	0.159	0.00	3462741.67	0.000
	62.5547 - 61.0589		573790.83	3483491.67	0.165	0.00	3483491.67	0.000
	61.0589 - 59.5632		598625.83	3504233.33	0.171	0.00	3504233.33	0.000
	59.5632 - 58.0674		623963.33	3524975.00	0.177	0.00	3524975.00	0.000
	58.0674 - 56.5716		649802.50	3545716.67	0.183	0.00	3545716.67	0.000
	56.5716 - 55.0758		676144.17	3566450.00	0.190	0.00	3566450.00	0.000
	55.0758 - 53.58		702986.67	3587175.00	0.196	0.00	3587175.00	0.000
	53.58 - 46		431321.67	3692133.33	0.117	0.00	3692133.33	0.000
L2	53.58 - 46	TP60.715x53.3538x0.3125	415533.33	3630341.67	0.114	0.00	3630341.67	0.000
	46 - 43.6316		894450.00	3663133.33	0.244	0.00	3663133.33	0.000
	43.6316 - 41.2632		943216.67	3695908.33	0.255	0.00	3695908.33	0.000
	41.2632 - 38.8947		993150.00	3728658.33	0.266	0.00	3728658.33	0.000
	38.8947 - 36.5263		1044233.33	3761383.33	0.278	0.00	3761383.33	0.000
	36.5263 - 34.1579		1096450.00	3794083.33	0.289	0.00	3794083.33	0.000
	34.1579 - 31.7895		1149800.00	3826750.00	0.300	0.00	3826750.00	0.000
	31.7895 - 29.4211		1204266.67	3859391.67	0.312	0.00	3859391.67	0.000
	29.4211 - 27.0526		1259825.00	3891991.67	0.324	0.00	3891991.67	0.000
	27.0526 - 24.6842		1316483.33	3924550.00	0.335	0.00	3924550.00	0.000
	24.6842 - 22.3158		1374225.00	3957075.00	0.347	0.00	3957075.00	0.000
	22.3158 - 19.9474		1433025.00	3989558.33	0.359	0.00	3989558.33	0.000
	19.9474 - 17.5789		1492875.00	4021991.67	0.371	0.00	4021991.67	0.000
	17.5789 - 15.2105		1553775.00	4054375.00	0.383	0.00	4054375.00	0.000
	15.2105 - 12.8421		1615700.00	4086708.33	0.395	0.00	4086708.33	0.000
	12.8421 - 10.4737		1678641.67	4118991.67	0.408	0.00	4118991.67	0.000
	10.4737 - 8.10526		1742591.67	4151216.67	0.420	0.00	4151216.67	0.000
	8.10526 -		1807525.00	4183375.00	0.432	0.00	4183375.00	0.000

Section No.	Elevation ft	Size	M_{ux} lb-ft	ϕM_{nx} lb-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} lb-ft	ϕM_{ny} lb-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	5.73684							
	5.73684 - 3.36842		1873433.33	4215483.33	0.444	0.00	4215483.33	0.000
	3.36842 - 1		1940316.67	4247516.67	0.457	0.00	4247516.67	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u lb-ft	ϕT_n lb-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	82 - 80.5042	TP55.04x50x0.3125	12051.60	1563680.00	0.008	0.00	6441758.00	0.000
	80.5042 - 79.0084		12389.90	1567140.00	0.008	0.00	6483250.00	0.000
	79.0084 - 77.5126		12728.10	1570580.00	0.008	0.00	6524758.00	0.000
	77.5126 - 76.0168		13066.20	1573980.00	0.008	0.00	6566274.67	0.000
	76.0168 - 74.5211		13404.10	1577370.00	0.008	0.00	6607800.00	0.000
	74.5211 - 73.0253		13741.90	1580720.00	0.009	0.00	6649341.33	0.000
	73.0253 - 71.5295		14079.50	1584050.00	0.009	0.00	6690883.33	0.000
	71.5295 - 70.0337		14417.00	1587360.00	0.009	0.00	6732424.67	0.000
	70.0337 - 68.5379		14754.30	1590640.00	0.009	0.00	6773983.33	0.000
	68.5379 - 67.0421		15091.50	1593890.00	0.009	0.00	6815533.33	0.000
	67.0421 - 65.5463		15428.40	1597120.00	0.010	0.00	6857091.33	0.000
	65.5463 - 64.0505		15765.20	1600320.00	0.010	0.00	6898650.00	0.000
	64.0505 - 62.5547		16101.80	1603490.00	0.010	0.00	6940208.00	0.000
	62.5547 - 61.0589		16438.10	1606640.00	0.010	0.00	6981766.67	0.000
	61.0589 - 59.5632		16774.30	1609770.00	0.010	0.00	7023316.67	0.000
	59.5632 - 58.0674		17110.20	1612860.00	0.011	0.00	7064858.00	0.000
	58.0674 - 56.5716		17445.80	1615930.00	0.011	0.00	7106400.00	0.000
	56.5716 - 55.0758		17781.20	1618980.00	0.011	0.00	7147933.33	0.000
	55.0758 - 53.58		18116.40	1622000.00	0.011	0.00	7189450.00	0.000
	53.58 - 46		10520.50	1636900.00	0.006	0.00	7399683.33	0.000
L2	53.58 - 46	TP60.715x53.3538x0.3125	9335.75	1628200.00	0.006	0.00	7275908.00	0.000
	46 - 43.6316		20351.30	1632850.00	0.012	0.00	7341591.33	0.000
	43.6316 - 41.2632		20845.10	1637420.00	0.013	0.00	7407233.33	0.000
	41.2632 - 38.8947		21333.90	1641940.00	0.013	0.00	7472833.33	0.000
	38.8947 - 36.5263		21817.80	1646380.00	0.013	0.00	7538383.33	0.000

Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u lb-ft	ϕT_n lb-ft	Ratio $\frac{T_u}{\phi T_n}$
	36.5263 - 34.1579		22296.70	1650770.00	0.014	0.00	7603883.33	0.000
	34.1579 - 31.7895		22770.50	1655080.00	0.014	0.00	7669316.67	0.000
	31.7895 - 29.4211		23239.20	1659340.00	0.014	0.00	7734691.33	0.000
	29.4211 - 27.0526		23702.90	1663520.00	0.014	0.00	7799991.33	0.000
	27.0526 - 24.6842		24161.30	1667650.00	0.014	0.00	7865216.67	0.000
	24.6842 - 22.3158		24614.60	1671700.00	0.015	0.00	7930358.00	0.000
	22.3158 - 19.9474		25062.70	1675690.00	0.015	0.00	7995408.00	0.000
	19.9474 - 17.5789		25505.60	1679620.00	0.015	0.00	8060374.67	0.000
	17.5789 - 15.2105		25943.10	1683480.00	0.015	0.00	8125241.33	0.000
	15.2105 - 12.8421		26375.30	1687280.00	0.016	0.00	8190000.00	0.000
	12.8421 - 10.4737		26802.20	1691010.00	0.016	0.00	8254650.00	0.000
	10.4737 - 8.10526		27223.70	1694680.00	0.016	0.00	8319191.33	0.000
	8.10526 - 5.73684		27639.70	1698280.00	0.016	0.00	8383583.33	0.000
	5.73684 - 3.36842		28050.30	1701820.00	0.016	0.00	8447916.67	0.000
	3.36842 - 1		28455.40	1705290.00	0.017	0.00	8512083.33	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	82 - 80.5042	0.005	0.092	0.000	0.008	0.000	0.098 ✔	1.000	4.8.2 ✔
	80.5042 - 79.0084	0.006	0.097	0.000	0.008	0.000	0.103 ✔	1.000	4.8.2 ✔
	79.0084 - 77.5126	0.006	0.103	0.000	0.008	0.000	0.108 ✔	1.000	4.8.2 ✔
	77.5126 - 76.0168	0.006	0.108	0.000	0.008	0.000	0.114 ✔	1.000	4.8.2 ✔
	76.0168 - 74.5211	0.006	0.113	0.000	0.008	0.000	0.119 ✔	1.000	4.8.2 ✔
	74.5211 - 73.0253	0.006	0.119	0.000	0.009	0.000	0.125 ✔	1.000	4.8.2 ✔
	73.0253 - 71.5295	0.006	0.124	0.000	0.009	0.000	0.130 ✔	1.000	4.8.2 ✔
	71.5295 - 70.0337	0.006	0.130	0.000	0.009	0.000	0.136 ✔	1.000	4.8.2 ✔
	70.0337 -	0.006	0.135	0.000	0.009	0.000	0.142	1.000	4.8.2 ✔

Section No.	Elevation ft	Ratio P_u / ϕP_n	Ratio M_{ux} / ϕM_{nx}	Ratio M_{uy} / ϕM_{ny}	Ratio V_u / ϕV_n	Ratio T_u / ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	68.5379						✔		
	68.5379 - 67.0421	0.006	0.141	0.000	0.009	0.000	0.148 ✔	1.000	4.8.2 ✔
	67.0421 - 65.5463	0.007	0.147	0.000	0.010	0.000	0.153 ✔	1.000	4.8.2 ✔
	65.5463 - 64.0505	0.007	0.153	0.000	0.010	0.000	0.159 ✔	1.000	4.8.2 ✔
	64.0505 - 62.5547	0.007	0.159	0.000	0.010	0.000	0.166 ✔	1.000	4.8.2 ✔
	62.5547 - 61.0589	0.007	0.165	0.000	0.010	0.000	0.172 ✔	1.000	4.8.2 ✔
	61.0589 - 59.5632	0.007	0.171	0.000	0.010	0.000	0.178 ✔	1.000	4.8.2 ✔
	59.5632 - 58.0674	0.007	0.177	0.000	0.011	0.000	0.184 ✔	1.000	4.8.2 ✔
	58.0674 - 56.5716	0.007	0.183	0.000	0.011	0.000	0.191 ✔	1.000	4.8.2 ✔
	56.5716 - 55.0758	0.007	0.190	0.000	0.011	0.000	0.197 ✔	1.000	4.8.2 ✔
	55.0758 - 53.58	0.007	0.196	0.000	0.011	0.000	0.203 ✔	1.000	4.8.2 ✔
	53.58 - 46	0.004	0.117	0.000	0.006	0.000	0.121 ✔	1.000	4.8.2 ✔
L2	53.58 - 46	0.004	0.114	0.000	0.006	0.000	0.119 ✔	1.000	4.8.2 ✔
	46 - 43.6316	0.009	0.244	0.000	0.012	0.000	0.253 ✔	1.000	4.8.2 ✔
	43.6316 - 41.2632	0.009	0.255	0.000	0.013	0.000	0.264 ✔	1.000	4.8.2 ✔
	41.2632 - 38.8947	0.009	0.266	0.000	0.013	0.000	0.275 ✔	1.000	4.8.2 ✔
	38.8947 - 36.5263	0.009	0.278	0.000	0.013	0.000	0.287 ✔	1.000	4.8.2 ✔
	36.5263 - 34.1579	0.009	0.289	0.000	0.014	0.000	0.298 ✔	1.000	4.8.2 ✔
	34.1579 - 31.7895	0.009	0.300	0.000	0.014	0.000	0.310 ✔	1.000	4.8.2 ✔
	31.7895 - 29.4211	0.010	0.312	0.000	0.014	0.000	0.322 ✔	1.000	4.8.2 ✔
	29.4211 - 27.0526	0.010	0.324	0.000	0.014	0.000	0.334 ✔	1.000	4.8.2 ✔
	27.0526 - 24.6842	0.010	0.335	0.000	0.014	0.000	0.346 ✔	1.000	4.8.2 ✔
	24.6842 - 22.3158	0.010	0.347	0.000	0.015	0.000	0.358 ✔	1.000	4.8.2 ✔
	22.3158 - 19.9474	0.010	0.359	0.000	0.015	0.000	0.370 ✔	1.000	4.8.2 ✔
	19.9474 - 17.5789	0.010	0.371	0.000	0.015	0.000	0.382 ✔	1.000	4.8.2 ✔
	17.5789 - 15.2105	0.011	0.383	0.000	0.015	0.000	0.394 ✔	1.000	4.8.2 ✔
	15.2105 -	0.011	0.395	0.000	0.016	0.000	0.406	1.000	4.8.2 ✔

Section No.	Elevation ft	Ratio $P_u/\phi P_n$	Ratio $M_{ux}/\phi M_{nx}$	Ratio $M_{uy}/\phi M_{ny}$	Ratio $V_u/\phi V_n$	Ratio $T_u/\phi T_n$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	12.8421						✔		
	12.8421 - 10.4737	0.011	0.408	0.000	0.016	0.000	0.419 ✔	1.000	4.8.2 ✔
	10.4737 - 8.10526	0.011	0.420	0.000	0.016	0.000	0.431 ✔	1.000	4.8.2 ✔
	8.10526 - 5.73684	0.011	0.432	0.000	0.016	0.000	0.444 ✔	1.000	4.8.2 ✔
	5.73684 - 3.36842	0.012	0.444	0.000	0.016	0.000	0.456 ✔	1.000	4.8.2 ✔
	3.36842 - 1	0.012	0.457	0.000	0.017	0.000	0.469 ✔	1.000	4.8.2 ✔

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
L1	82 - 46	Pole	TP55.04x50x0.3125	1	-23874.70	3244000.00	20.3	Pass
L2	46 - 1	Pole	TP60.715x53.3538x0.3125	2	-40031.10	3410580.00	46.9	Pass
							Summary	
						Pole (L2)	46.9	Pass
						RATING =	**46.9**	**Pass**

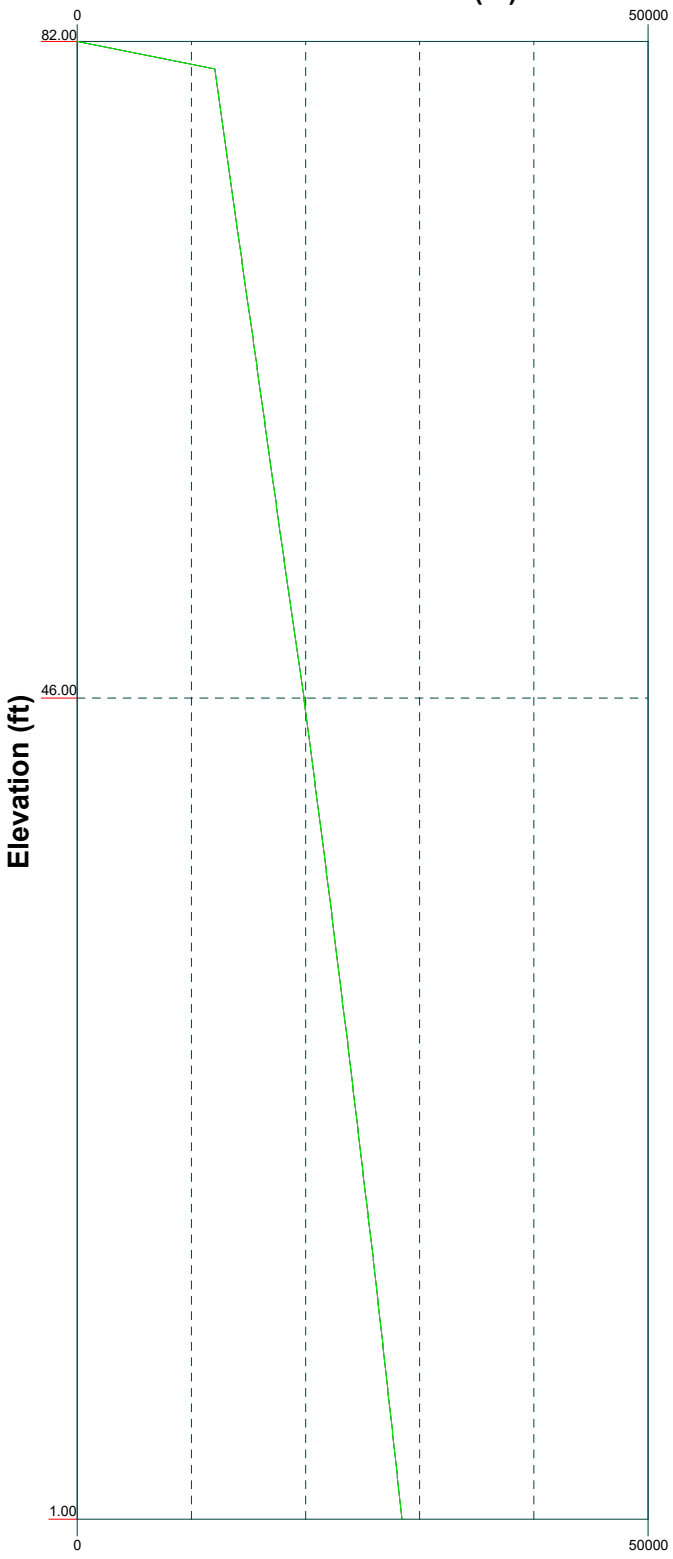
TIA-222-G - 159 mph Exposure C

Vx Vz

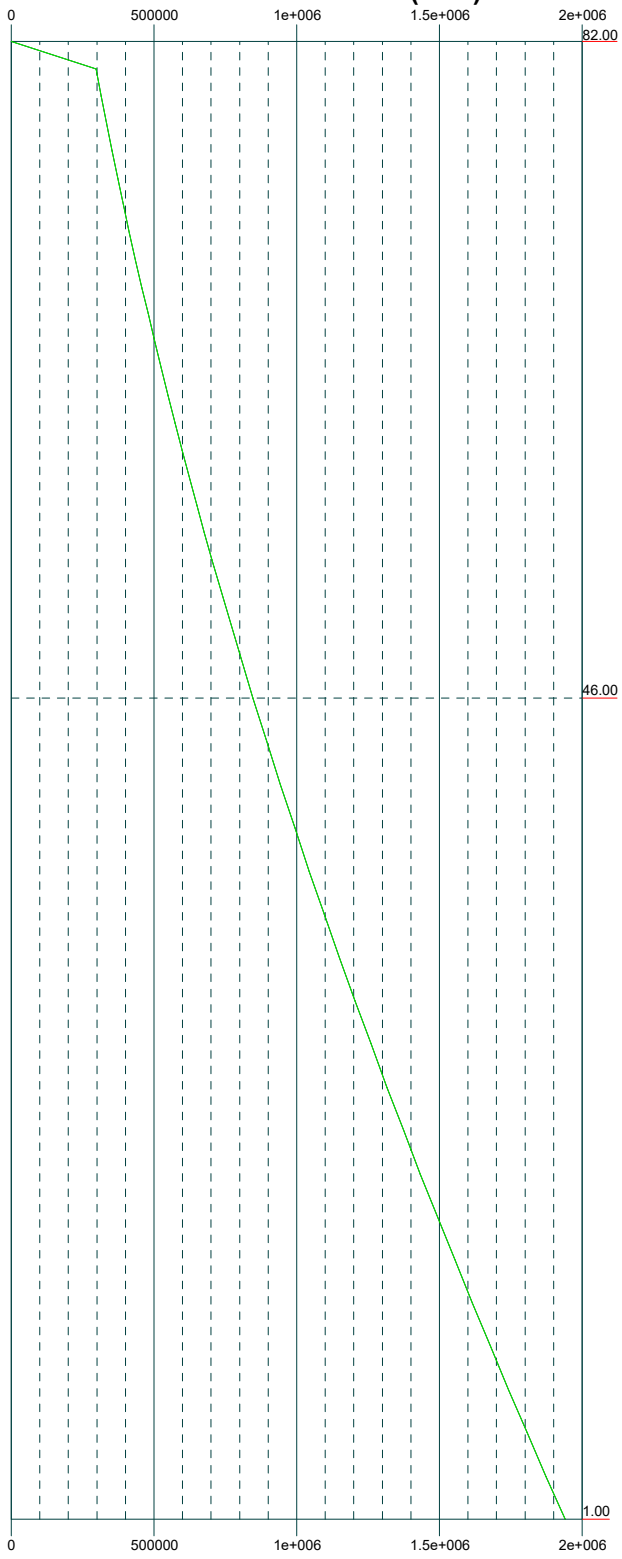
Maximum Values

Mx Mz

Global Mast Shear (lb)



Global Mast Moment (lb-ft)

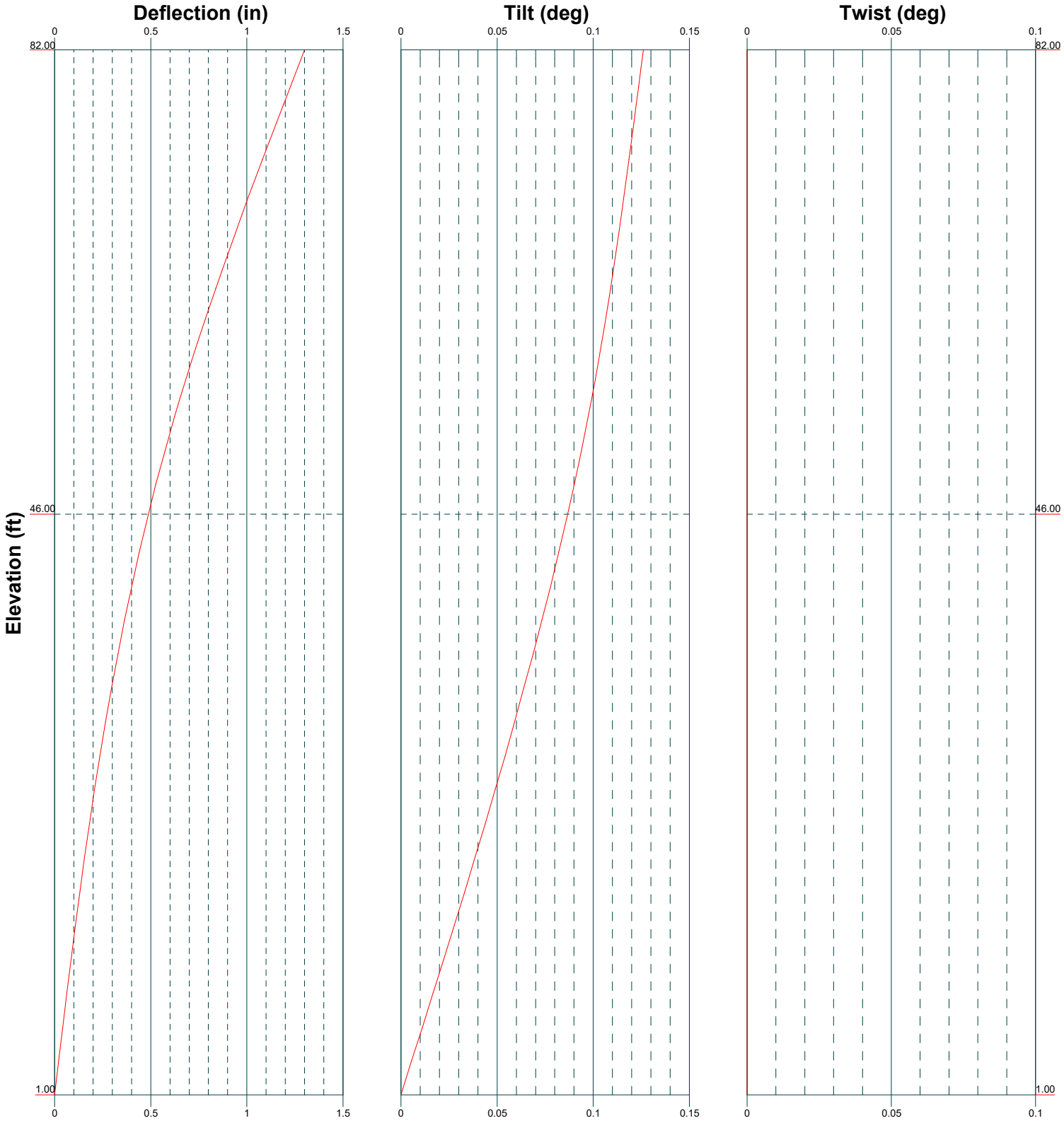


Vector Structural Engineering
651 West Galena Park BLVD
Draper, UT 84020
Phone: (801) 990-1775
FAX:

Job: *Ft. Pierce Orave Ave*			
Project: *U0142-705-181*			
Client: STEALTH® Concealment Solutions	Drawn by: dfoulger	App'd:	
Code: TIA-222-G	Date: 09/13/18	Scale: NTS	
Path:		Dwg No. E-4	

TIA-222-G - Service - 60 mph

Maximum Values

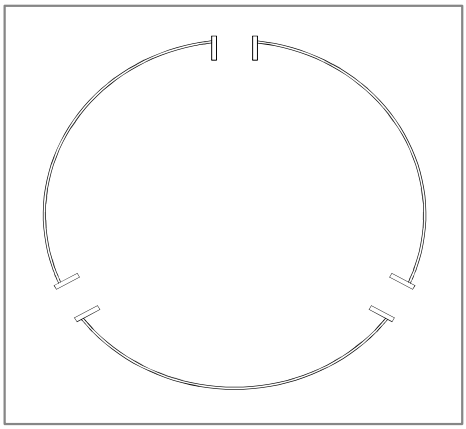


Vector Structural Engineering
651 West Galena Park BLVD
Draper, UT 84020
Phone: (801) 990-1775
FAX:

Job: *Ft. Pierce Orave Ave*			
Project: *U0142-705-181*			
Client: STEALTH® Concealment Solutions	Drawn by: dfoulger	App'd:	
Code: TIA-222-G	Date: 09/13/18	Scale: NTS	
Path:		Dwg No. E-5	

JOB NO.: U0142-705-181

PROJECT: FT. PIERCE ORANGE AVE



Label: Ports at 80 ft A.G.L.

Geometry Input

Pole Diameter	50.35	in
Pole Thickness	0.3125	in
Pole Yield Strength	65	ksi
Effective Reinforcing Rims?	No	
Rim Yield Strength	50	ksi
# of Ports	3	

	Port 1	Port 2	Port 3
Azimuth (°)	0	120	240
Height (in)	12	12	12
Width (in)	6	6	6
Depth (in)	3.5	3.5	3.5
Thickness (in)	0.625	0.625	0.625
Projection (in)	0.5	0.5	0.5
Port Weight (lbs)	48		

Composite Section Properties

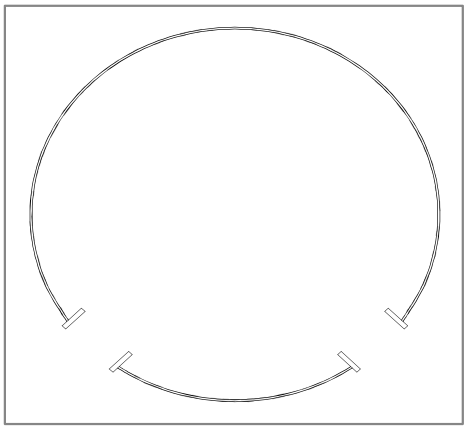
	Original	w/ ports	
A	49	43	in2
Ixx	15375	13567	in4
Iyy	15375	13567	in4
Smin	611	528	in3

Port Check

Pole unity at port location from tower model:	11%	(optional)
Rim Fy Reduction:	100%	(rims not considered in section properties)
Result:	**12%**	

JOB NO.: U0142-705-181

PROJECT: FT. PIERCE ORANGE AVE



Label: Ports at 8 ft A.G.L.

Geometry Input

Pole Diameter	59.88	in
Pole Thickness	0.3125	in
Pole Yield Strength	65	ksi
Effective Reinforcing Rims?	Yes	
Rim Yield Strength	50	ksi
# of Ports	2	

	Port 1	Port 2
Azimuth (°)	135	225
Height (in)	25	25
Width (in)	10.5	10.5
Depth (in)	4	4
Thickness (in)	0.75	0.75
Projection (in)	0.5	0.5
Port Weight (lbs)	72	

Composite Section Properties

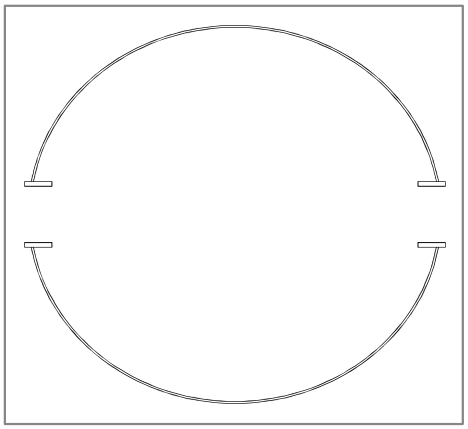
	Original	w/ ports	
A	58	64	in2
Ixx	25940	27770	in4
Iyy	25940	27650	in4
Smin	866	908	in3

Port Check

Pole unity at port location from tower model:	45%	(optional)
Rim Fy Reduction:	77%	
Result:	**55%**	

JOB NO.: U0142-705-181

PROJECT: FT. PIERCE ORANGE AVE



Label: Ports at 4 ft A.G.L.

Geometry Input

Pole Diameter	60.44	in
Pole Thickness	0.3125	in
Pole Yield Strength	65	ksi
Effective Reinforcing Rims?	Yes	
Rim Yield Strength	50	ksi
# of Ports	2	

	Port 1	Port 2
Azimuth (°)	90	270
Height (in)	25	25
Width (in)	10.5	10.5
Depth (in)	4	4
Thickness (in)	0.75	0.75
Projection (in)	0.5	0.5
Port Weight (lbs)	73	

Composite Section Properties

	Original	w/ ports	
A	59	64	in2
Ixx	26678	26720	in4
Iyy	26678	30539	in4
Smin	883	870	in3

Port Check

Pole unity at port location from tower model:	47%	(optional)
Rim Fy Reduction:	77%	
Result:	**62%**	

Stiffened or Unstiffened, Ungrouted, Circular Base Plate - Any Rod Material
TIA Rev G

Site Data

Project #: U0142-705-181
Site Name: FT. PIERCE ORANGE AVE

Pole Manufacturer:	*Other*

Reactions		
Mu:	1954	ft-kips
Axial, Pu:	40.0	kips
Shear, Vu:	28.5	kips

Anchor Rod Data		
Qty:	8	
Diam:	2.25	in
Rod Material:	A615-J	
Strength (Fu):	100	ksi
Yield (Fy):	75	ksi
Bolt Circle:	68	in

Plate Data		
Diam:	74	in
Thick:	2	in
Grade:	50	ksi
Single-Rod B-eff:	16.82	in

Stiffener Data (Welding at both sides)		
Config:	0	*
Weld Type:	Fillet	
Groove Depth:	0.25	<-- Disregard
Groove Angle:	45	<-- Disregard
Fillet H. Weld:	0.25	in
Fillet V. Weld:	0.3125	in
Width:	5	in
Height:	18	in
Thick:	0.75	in
Notch:	0.5	in
Grade:	36	ksi
Weld str.:	70	ksi

Pole Data		
Diam:	60.715	in
Thick:	0.3125	in
Grade:	65	ksi
# of Sides:	18	"0" IF Round
Fu	80	ksi
Reinf. Fillet Weld	0.25	"0" if None

If No stiffeners, Criteria:	AISC LRFD	<-Only Applcable to Unstiffened Cases

Anchor Rod Results

Max Rod (Cu+ Vu/ń):	184.6	Kips
Allowable Axial, Φ*Fu*Anet:	260.0	Kips
Anchor Rod Stress Ratio:	71.0%	**Pass**

Rigid
AISC LRFD
φ*Tn

Base Plate Results Flexural Check

Base Plate Stress:	32.3	ksi
Allowable Plate Stress:	45.0	ksi
Base Plate Stress Ratio:	71.8%	**Pass**

Rigid
AISC LRFD
φ*Fy
Y.L. Length: 20.00

n/a

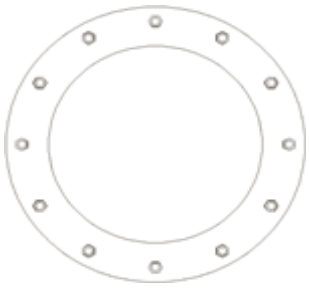
Stiffener Results

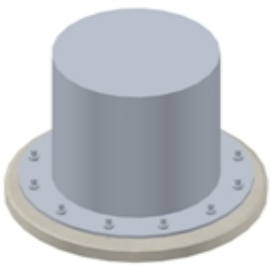
Horizontal Weld :	n/a
Vertical Weld:	n/a
Plate Flex+Shear, fb/Fb+(fv/Fv)^2:	n/a
Plate Tension+Shear, ft/Ft+(fv/Fv)^2:	n/a
Plate Comp. (AISC Bracket):	n/a

Pole Results

Pole Punching Shear Check: n/a

Note: images below are for illustration only and may not reflect actual bolt quantity, etc.





* 0 = none, 1 = every bolt, 2 = every 2 bolts, 3 = 2 per bolt

** Note: for complete joint penetration groove welds the groove depth must be exactly 1/2 the stiffener thickness for calculation purposes

JOB NO.: U0142-705-181

PROJECT: FT. PIERCE ORANGE AVE

Foundation Design

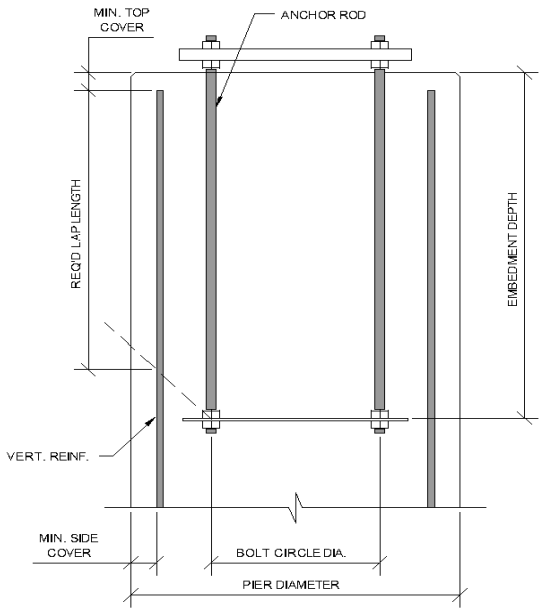
JOB NO.: U0142-705-181

PROJECT: FT. PIERCE ORANGE AVE

Anchorage Embedment Design

Vertical Bar Size:	#8	
Conc. Comp. Strength:	4000	psi
Pier Diameter:	7.5	ft
Pier Depth:	35	ft
Top of Pier Elevation:	6	inches
Concrete Volume	58.1	yards
Side Conc. Cover:	4	inches
Top Conc. Cover:	3	inches
Bolt Circle Dia.:	68	inches
Horizontal Tie Size:	#4	
# Anchor Rods:	8	
Anchor Rod Dia:	2.25	inches

ψ_t (bar loc. factor):	1.0	ACI 12.2.4a
ψ_e (epoxy coating factor):	1.0	ACI 12.2.4b
ψ_s (bar size factor):	1.0	ACI 12.2.4.c
λ (concrete type factor):	1.0	ACI 12.2.4.d
Bar Diameter:	1.0	in
Horiz. Tie Diameter:	0.5	in
Min.Clr Dist. Btwn Anchor & Vert:	4.4	in
Req'd Lap Length:	37.0	in ACI 12.2.2
Min. Required Embedment Depth:	**46.0**	**in**



Required Lap Length + Max distance between anchor and rod + 0.5*Bar diameter + 0.5*Anchor diameter + Top cover

Transverse Reinforcement Design

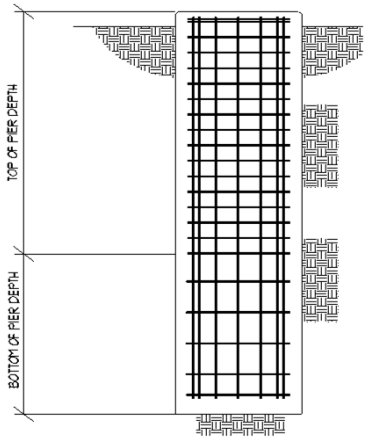
(see IBC Sections 1810.3.9.4.1 and 1810.3.9.4.2)

Seismic Design Category:	A
Site Class:	D

Type of Transverse Reinforcement:	Spiral	
Transverse f_{yt}:	60	ksi
Seismic Hooks Required?	No	
Tie Size OK?	Yes	

Spacing at Top of Pier:	6	in
Spacing at Bottom of Pier:	16	in

Total Pier Length	35.5	ft
Top Pier Length:	22.5	ft
Bottom Pier Length:	13	ft



JOB NO.: U0142-705-181

PROJECT: FT. PIERCE ORANGE AVE

Drilled Pier Design

Design Methodology: LRFD

Design Loads:
For ASD methodology, input ASD loads.
For LRFD methodology, input LRFD loads divided by $\Phi_s = 0.75$

Design Loads:

Max. Shear, V =	37.9	k	Max. Down, P_{down} =	53.4	k
Max. Moment, M =	2,605.8	k-ft	Max. Uplift, P_{uplift} (opt'l) =	0.0	k

Pier Properties:

Pier Shape	Round				
Pier Diameter, b:	7.5	ft	Volume of Concrete:	1568	ft^3
Min. Pier Diameter, b_{min} (opt'l):		ft	Volume of Concrete:	58.1	yd^3
Top of Pier Elevation:	0.50	ft	Weight of Concrete:	235.3	k
Pier Depth, d:	35.0	ft			

Soil Properties:

Allow. Bearing Pressure:	3,500	psf
Factor of Safety:	5	
1/3 increase for short term loads?	No	

Optional Parameters for Uplift:

Skin Friction:	170	psf
Factor of Safety:	2	
Top Length to Ignore:	6.0	ft
1/3 increase for short term loads?	No	
Combine w/ Bearing:	Yes	

Check Bearing:

Bearing Capacity: 1,005.4 k **Bearing capacity OK.**

Check Uplift:

Uplift Capacity: 444.0 k **Uplift capacity OK.**

Check Lateral Bearing:

See Lpile analysis

LPile for Windows, Version 2018-10.006

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\\vectordc.vector.local\projects$\2018 Projects\U0142 STEALTH\U0142-705-181 Ft. Pierce Orange Ave. RG18-01105W-05 (FL, top section, base pole, FND, FZ letter)\ENG\Base Pole and FND\

Name of input data file:
lpileInputFile.lp10

Name of output report file:
lpileInputFile.lp10

Name of plot output file:
lpileInputFile.lp10

Name of runtime message file:
lpileInputFile.lp10

Date and Time of Analysis

Date: September 13, 2018 Time: 13:56:32

Problem Title

Project Name: FT. PIERCE ORANGE AVE

Job Number: U0142-705-181

Client: STEALTH® Concealment Solutions

Engineer: DJF

Description: 0

Program Options and Settings

Computational Options:
- Use unfactored loads in computations (conventional analysis)

Engineering Units Used for Data Input and Computations:
- US Customary System Units (pounds, feet, inches)

Analysis Control Options:

- Maximum number of iterations allowed	=	500
- Deflection tolerance for convergence	=	1.0000E-05 in
- Maximum allowable deflection	=	100.0000 in

- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- Analysis uses layering correction (Method of Georgiadis)
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected
- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1
- No p-y curves to be computed and reported for user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 35.500 ft
Depth of ground surface below top of pile = 0.5000 ft

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point No.	Depth Below Pile Head feet	Pile Diameter inches
1	0.000	90.0000
2	35.500	90.0000

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is a round drilled shaft, bored pile, or CIDH pile
Length of section = 35.500000 ft
Shaft Diameter = 90.000000 in
Shear capacity of section = 0.0000 lbs

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 6 layers

Layer 1 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 0.500000 ft
Distance from top of pile to bottom of layer = 3.250000 ft
Effective unit weight at top of layer = 110.000000 pcf
Effective unit weight at bottom of layer = 110.000000 pcf
Friction angle at top of layer = 30.000000 deg.
Friction angle at bottom of layer = 30.000000 deg.
Subgrade k at top of layer = 35.000000 pci
Subgrade k at bottom of layer = 35.000000 pci

Layer 2 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 3.250000 ft
Distance from top of pile to bottom of layer = 6.500000 ft
Effective unit weight at top of layer = 47.600000 pcf
Effective unit weight at bottom of layer = 47.600000 pcf
Friction angle at top of layer = 30.000000 deg.
Friction angle at bottom of layer = 30.000000 deg.

Subgrade k at top of layer = 35.000000 pci
Subgrade k at bottom of layer = 35.000000 pci

Layer 3 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 6.500000 ft
Distance from top of pile to bottom of layer = 18.500000 ft
Effective unit weight at top of layer = 52.600000 pcf
Effective unit weight at bottom of layer = 52.600000 pcf
Friction angle at top of layer = 32.000000 deg.
Friction angle at bottom of layer = 32.000000 deg.
Subgrade k at top of layer = 100.000000 pci
Subgrade k at bottom of layer = 100.000000 pci

Layer 4 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 18.500000 ft
Distance from top of pile to bottom of layer = 28.500000 ft
Effective unit weight at top of layer = 47.600000 pcf
Effective unit weight at bottom of layer = 47.600000 pcf
Friction angle at top of layer = 30.000000 deg.
Friction angle at bottom of layer = 30.000000 deg.
Subgrade k at top of layer = 170.000000 pci
Subgrade k at bottom of layer = 170.000000 pci

Layer 5 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 28.500000 ft
Distance from top of pile to bottom of layer = 38.500000 ft
Effective unit weight at top of layer = 47.600000 pcf
Effective unit weight at bottom of layer = 47.600000 pcf
Friction angle at top of layer = 30.000000 deg.
Friction angle at bottom of layer = 30.000000 deg.
Subgrade k at top of layer = 240.000000 pci
Subgrade k at bottom of layer = 240.000000 pci

Layer 6 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 38.500000 ft
Distance from top of pile to bottom of layer = 50.500000 ft
Effective unit weight at top of layer = 62.600000 pcf
Effective unit weight at bottom of layer = 62.600000 pcf
Friction angle at top of layer = 34.000000 deg.
Friction angle at bottom of layer = 34.000000 deg.

Subgrade k at top of layer = 415.000000 pci
Subgrade k at bottom of layer = 415.000000 pci

(Depth of the lowest soil layer extends 15.000 ft below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth ft	Effective Unit Wt. pcf	Angle of Friction deg.	kpy pci
1	Sand	0.5000	110.0000	30.0000	35.0000
	(Reese, et al.)	3.2500	110.0000	30.0000	35.0000
2	Sand	3.2500	47.6000	30.0000	35.0000
	(Reese, et al.)	6.5000	47.6000	30.0000	35.0000
3	Sand	6.5000	52.6000	32.0000	100.0000
	(Reese, et al.)	18.5000	52.6000	32.0000	100.0000
4	Sand	18.5000	47.6000	30.0000	170.0000
	(Reese, et al.)	28.5000	47.6000	30.0000	170.0000
5	Sand	28.5000	47.6000	30.0000	240.0000
	(Reese, et al.)	38.5000	47.6000	30.0000	240.0000
6	Sand	38.5000	62.6000	34.0000	415.0000
	(Reese, et al.)	50.5000	62.6000	34.0000	415.0000

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 3

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, lbs Compute Top y vs. Pile Length

1	1	V =	47437. lbs	M =	39087000. in-lbs	66738.	No
2	1	V =	21347. lbs	M =	17589150. in-lbs	41711.	No
3	1	V =	9065. lbs	M =	7452106. in-lbs	80673.	No

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with
specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

---

Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Dimensions and Properties of Drilled Shaft (Bored Pile):

Length of Section	=	35.500000 ft
Shaft Diameter	=	90.000000 in
Concrete Cover Thickness (to edge of long. rebar)	=	4.500000 in
Number of Reinforcing Bars	=	42 bars
Yield Stress of Reinforcing Bars	=	60000. psi
Modulus of Elasticity of Reinforcing Bars	=	29000000. psi
Gross Area of Shaft	=	6362. sq. in.
Total Area of Reinforcing Steel	=	33.180000 sq. in.
Area Ratio of Steel Reinforcement	=	0.52 percent
Edge-to-Edge Bar Spacing	=	4.978407 in
Maximum Concrete Aggregate Size	=	0.750000 in
Ratio of Bar Spacing to Aggregate Size	=	6.64
Offset of Center of Rebar Cage from Center of Pile	=	0.0000 in

Axial Structural Capacities:

Nom. Axial Structural Capacity = 0.85 Fc Ac + Fy As	=	23507.853 kips
Tensile Load for Cracking of Concrete	=	-2743.114 kips
Nominal Axial Tensile Capacity	=	-1990.800 kips

Reinforcing Bar Dimensions and Positions Used in Computations:

Bar Number	Bar Diam. inches	Bar Area sq. in.	X inches	Y inches
1	1.000000	0.790000	40.000000	0.00000
2	1.000000	0.790000	39.553233	5.961691
3	1.000000	0.790000	38.222912	11.790207
4	1.000000	0.790000	36.038755	17.355350
5	1.000000	0.790000	33.049551	22.532802
6	1.000000	0.790000	29.322075	27.206910
7	1.000000	0.790000	24.939592	31.273259
8	1.000000	0.790000	20.000000	34.641016
9	1.000000	0.790000	14.613641	37.234950
10	1.000000	0.790000	8.900837	38.997116
11	1.000000	0.790000	2.989204	39.888152
12	1.000000	0.790000	-2.989204	39.888152
13	1.000000	0.790000	-8.900837	38.997116
14	1.000000	0.790000	-14.613641	37.234950
15	1.000000	0.790000	-20.000000	34.641016
16	1.000000	0.790000	-24.939592	31.273259
17	1.000000	0.790000	-29.322075	27.206910
18	1.000000	0.790000	-33.049551	22.532802
19	1.000000	0.790000	-36.038755	17.355350
20	1.000000	0.790000	-38.222912	11.790207
21	1.000000	0.790000	-39.553233	5.961691
22	1.000000	0.790000	-40.000000	0.00000
23	1.000000	0.790000	-39.553233	-5.961691
24	1.000000	0.790000	-38.222912	-11.790207
25	1.000000	0.790000	-36.038755	-17.355350
26	1.000000	0.790000	-33.049551	-22.532802
27	1.000000	0.790000	-29.322075	-27.206910
28	1.000000	0.790000	-24.939592	-31.273259
29	1.000000	0.790000	-20.000000	-34.641016
30	1.000000	0.790000	-14.613641	-37.234950
31	1.000000	0.790000	-8.900837	-38.997116
32	1.000000	0.790000	-2.989204	-39.888152
33	1.000000	0.790000	2.989204	-39.888152
34	1.000000	0.790000	8.900837	-38.997116
35	1.000000	0.790000	14.613641	-37.234950

36	1.000000	0.790000	20.000000	-34.641016
37	1.000000	0.790000	24.939592	-31.273259
38	1.000000	0.790000	29.322075	-27.206910
39	1.000000	0.790000	33.049551	-22.532802
40	1.000000	0.790000	36.038755	-17.355350
41	1.000000	0.790000	38.222912	-11.790207
42	1.000000	0.790000	39.553233	-5.961691

NOTE: The positions of the above rebars were computed by LPile

Minimum spacing between any two bars not equal to zero = 4.978 inches
between bars 1 and 42.

Ratio of bar spacing to maximum aggregate size = 6.64

Concrete Properties:

Compressive Strength of Concrete	=	4000. psi
Modulus of Elasticity of Concrete	=	3604997. psi
Modulus of Rupture of Concrete	=	-474.341649 psi
Compression Strain at Peak Stress	=	0.001886
Tensile Strain at Fracture of Concrete	=	-0.0001154
Maximum Coarse Aggregate Size	=	0.750000 in

Number of Axial Thrust Force Values Determined from Pile-head Loadings = 3

Number	Axial Thrust Force kips
1	41.711
2	66.738
3	80.673

Definitions of Run Messages and Notes:

C = concrete in section has cracked in tension.
Y = stress in reinforcing steel has reached yield stress.
T = ACI 318 criteria for tension-controlled section met, tensile strain in reinforcement exceeds 0.005 while simultaneously compressive strain in concrete more than 0.003. See ACI 318, Section 10.3.4.
Z = depth of tensile zone in concrete section is less than 10 percent of section depth.

Bending Stiffness (EI) = Computed Bending Moment / Curvature.
Position of neutral axis is measured from edge of compression side of pile.
Compressive stresses and strains are positive in sign.
Tensile stresses and strains are negative in sign.

Axial Thrust Force = 41.711 kips

Bending Max Conc Curvature Stress rad/in. ksi	Bending Max Steel Moment Stress in-kip ksi	Run	Bending Stiffness kip-in2	Depth to N Axis in	Max Comp Strain in/in	Max Tens Strain in/in
3.12500E-07	4464.		1.42833E+10	49.8156169	0.00001557	-0.00001256
0.0651600	0.4473759					
6.25000E-07	8906.		1.42496E+10	47.4151964	0.00002963	-0.00002662
0.1235235	0.8512442					
9.37500E-07	13327.		1.42155E+10	46.6150960	0.00004370	-0.00004067
0.1814512	1.2551135					
0.00000125	17727.		1.41813E+10	46.2150707	0.00005777	-0.00005473
0.2389429	1.6589838					
0.00000156	22105.		1.41471E+10	45.9750745	0.00007184	-0.00006879
0.2959986	2.0628549					
0.00000188	26462.		1.41128E+10	45.8150929	0.00008590	-0.00008285
0.3526183	2.4667269					
0.00000219	30797.		1.40786E+10	45.7008339	0.00009997	-0.00009690
0.4088021	2.8705998					
0.00000250	35111.		1.40443E+10	45.6151517	0.0001140	-0.0001110
0.4645499	3.2744735					
0.00000281	35111.		1.24838E+10	20.5681908	0.00005785	-0.0001953
0.2363765	-5.6263288	C				
0.00000313	35111.		1.12355E+10	20.3076974	0.00006346	-0.0002178
0.2588580	-6.2750837	C				
0.00000344	35111.		1.02141E+10	20.0869130	0.00006905	-0.0002403
0.2811646	-6.9246015	C				
0.00000375	35111.		9362887490.	19.9010461	0.00007463	-0.0002629
0.3033758	-7.5743237	C				
0.00000406	35111.		8642665375.	19.7444608	0.00008021	-0.0002854
0.3255318	-8.2239651	C				
0.00000438	35111.		8025332134.	19.6108840	0.00008580	-0.0003080
0.3476325	-8.8735253	C				
0.00000469	35111.		7490309992.	19.4957157	0.00009139	-0.0003305
0.3696778	-9.5230043	C				
0.00000500	35111.		7022165618.	19.3955055	0.00009698	-0.0003530

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0.3916678   -10.1724017 C
0.00000531       35111.   6609097052.    19.3051972     0.0001026    -0.0003756
0.4135507   -10.8220899 C
0.00000563       35111.   6241924993.    19.2231394     0.0001081    -0.0003981
0.4353268   -11.4720691 C
0.00000594       35111.   5913402625.    19.1502146     0.0001137    -0.0004207
0.4570484   -12.1219630 C
0.00000625       35111.   5617732494.    19.0850542     0.0001193    -0.0004432
0.4787154   -12.7717714 C
0.00000656       35111.   5350221423.    19.0265503     0.0001249    -0.0004658
0.5003276   -13.4214940 C
0.00000688       35111.   5107029540.    18.9737962     0.0001304    -0.0004883
0.5218850   -14.0711306 C
0.00000719       35111.   4884984777.    18.9260432     0.0001360    -0.0005108
0.5433875   -14.7206810 C
0.00000750       35111.   4681443745.    18.8826672     0.0001416    -0.0005334
0.5648351   -15.3701449 C
0.00000781       35111.   4494185995.    18.8431441     0.0001472    -0.0005559
0.5862277   -16.0195220 C
0.00000813       35111.   4321332688.    18.8070302     0.0001528    -0.0005784
0.6075651   -16.6688122 C
0.00000844       35111.   4161283329.    18.7739479     0.0001584    -0.0006010
0.6288474   -17.3180152 C
0.00000875       35111.   4012666067.    18.7435731     0.0001640    -0.0006235
0.6500744   -17.9671308 C
0.00000906       35111.   3874298272.    18.7156268     0.0001696    -0.0006460
0.6712461   -18.6161587 C
0.00000938       35111.   3745154996.    18.6898670     0.0001752    -0.0006685
0.6923623   -19.2650986 C
0.00000969       35111.   3624343545.    18.6660830     0.0001808    -0.0006910
0.7134231   -19.9139504 C
0.00001000       35111.   3511082809.    18.6440904     0.0001864    -0.0007136
0.7344282   -20.5627137 C
0.00001031       35111.   3404686360.    18.6237272     0.0001921    -0.0007361
0.7553777   -21.2113887 C
0.00001063       35111.   3304548526.    18.6048505     0.0001977    -0.0007586
0.7762714   -21.8599744 C
0.00001094       35111.   3210132854.    18.5873335     0.0002033    -0.0007811
0.7971094   -22.5084710 C
0.00001125       35111.   3120962497.    18.5710638     0.0002089    -0.0008036
0.8178914   -23.1568781 C
0.00001156       35111.   3036612159.    18.5559411     0.0002146    -0.0008261
0.8386175   -23.8051956 C
0.00001188       35111.   2956701313.    18.5418754     0.0002202    -0.0008486
0.8592875   -24.4534231 C
0.00001219       35111.   2880888458.    18.5287862     0.0002258    -0.0008711
0.8799013   -25.1015604 C
0.00001281       35111.   2740357314.    18.5052544     0.0002371    -0.0009160
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0.9209603   -26.3975633 C
0.00001344       35111.   2612898834.    18.4848454     0.0002484    -0.0009610
0.9617936   -27.6932024 C
0.00001406       35111.   2496769997.    18.4671480     0.0002597    -0.0010059
1.0024007   -28.9884759 C
0.00001469       35111.   2390524466.    18.4518211     0.0002710    -0.0010509
1.0427810   -30.2833809 C
0.00001531       35111.   2292952038.    18.4378833     0.0002823    -0.0010958
1.0828951   -31.5782243 C
0.00001594       35111.   2203032351.    18.4257884     0.0002937    -0.0011407
1.1227781   -32.8727217 C
0.00001656       35111.   2119899054.    18.4154311     0.0003050    -0.0011856
1.1624355   -34.1668228 C
0.00001719       35111.   2042811816.    18.4066268     0.0003164    -0.0012305
1.2018665   -35.4605252 C
0.00001781       35111.   1971134208.    18.3992169     0.0003277    -0.0012754
1.2410702   -36.7538264 C
0.00001844       35111.   1904316100.    18.3930645     0.0003391    -0.0013203
1.2800461   -38.0467240 C
0.00001906       35111.   1841879506.    18.3880504     0.0003505    -0.0013651
1.3187934   -39.3392153 C
0.00001969       35444.   1800355321.    18.3840708     0.0003619    -0.0014099
1.3573113   -40.6312977 C
0.00002031       36521.   1797980574.    18.3810348     0.0003734    -0.0014548
1.3955990   -41.9229685 C
0.00002094       37598.   1795710284.    18.3788622     0.0003848    -0.0014996
1.4336560   -43.2142252 C
0.00002156       38673.   1793535164.    18.3774823     0.0003963    -0.0015444
1.4714812   -44.5050649 C
0.00002219       39748.   1791446973.    18.3768322     0.0004077    -0.0015891
1.5090741   -45.7954851 C
0.00002281       40822.   1789438369.    18.3768564     0.0004192    -0.0016339
1.5464338   -47.0854828 C
0.00002344       41895.   1787502793.    18.3775048     0.0004307    -0.0016787
1.5835596   -48.3750553 C
0.00002406       42967.   1785634364.    18.3787329     0.0004422    -0.0017234
1.6204506   -49.6641998 C
0.00002469       44038.   1783827794.    18.3805007     0.0004538    -0.0017681
1.6571061   -50.9529133 C
0.00002531       45109.   1782078317.    18.3827722     0.0004653    -0.0018128
1.6935252   -52.2411931 C
0.00002594       46179.   1780381622.    18.3855148     0.0004769    -0.0018575
1.7297072   -53.5290361 C
0.00002656       47248.   1778733805.    18.3886992     0.0004884    -0.0019022
1.7656512   -54.8164395 C
0.00002719       48316.   1777131316.    18.3922987     0.0005000    -0.0019468
1.8013563   -56.1034001 C
0.00002781       49383.   1775570923.    18.3962891     0.0005116    -0.0019915
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1.8368219   -57.3899149 C
0.00002844       50450.   1774049677.    18.4006484     0.0005233    -0.0020361
1.8720469   -58.6759809 C
0.00002906       51515.   1772564879.    18.4053564     0.0005349    -0.0020807
1.9070306   -59.9615950 C
0.00002969       52580.   1771114057.    18.4103949     0.0005466    -0.0021253
1.9417721   -60.0000000 CY
0.00003031       53644.   1769694940.    18.4157469     0.0005582    -0.0021699
1.9762705   -60.0000000 CY
0.00003094       54707.   1768305440.    18.4213972     0.0005699    -0.0022145
2.0105249   -60.0000000 CY
0.00003156       55664.   1763605241.    18.4155198     0.0005812    -0.0022594
2.0434288   -60.0000000 CY
0.00003219       56482.   1754789259.    18.3950072     0.0005921    -0.0023048
2.0746509   -60.0000000 CY
0.00003281       57209.   1743505569.    18.3653922     0.0006026    -0.0023505
2.1046752   -60.0000000 CY
0.00003344       57894.   1731399158.    18.3326624     0.0006130    -0.0023964
2.1340546   -60.0000000 CY
0.00003406       58519.   1717978095.    18.2947163     0.0006232    -0.0024425
2.1625762   -60.0000000 CY
0.00003469       59089.   1703460576.    18.2523630     0.0006331    -0.0024887
2.1903068   -60.0000000 CY
0.00003531       59655.   1689333240.    18.2113357     0.0006431    -0.0025350
2.2178093   -60.0000000 CY
0.00003594       60175.   1674443763.    18.1669238     0.0006529    -0.0025815
2.2446153   -60.0000000 CY
0.00003656       60638.   1658485149.    18.1178119     0.0006624    -0.0026282
2.2705842   -60.0000000 CY
0.00003719       61101.   1643053522.    18.0705841     0.0006720    -0.0026749
2.2963837   -60.0000000 CY
0.00003969       62718.   1580290132.    17.8729791     0.0007093    -0.0028625
2.3951307   -60.0000000 CY
0.00004219       64101.   1519436274.    17.6769522     0.0007457    -0.0030511
2.4885284   -60.0000000 CY
0.00004469       65238.   1459880702.    17.4741378     0.0007809    -0.0032410
2.5758802   -60.0000000 CY
0.00004719       66234.   1403636747.    17.2704303     0.0008149    -0.0034319
2.6580389   -60.0000000 CY
0.00004969       67087.   1350179964.    17.0729498     0.0008483    -0.0036236
2.7360666   -60.0000000 CY
0.00005219       67897.   1301029259.    16.8913751     0.0008815    -0.0038154
2.8113938   -60.0000000 CY
0.00005469       68537.   1253255736.    16.7078269     0.0009137    -0.0040082
2.8821305   -60.0000000 CY
0.00005719       69157.   1209296538.    16.5313178     0.0009454    -0.0042015
2.9495778   -60.0000000 CY
0.00005969       69762.   1168784560.    16.3655354     0.0009768    -0.0043951
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3.0144166   -60.0000000 CY
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3.0748901   -60.0000000 CY
0.00006469       70658.   1092297368.    16.0366604     0.0010374    -0.0047845
3.1333383   -60.0000000 CY
0.00006719       71095.   1058154050.    15.8914527     0.0010677    -0.0049792
3.1900451   -60.0000000 CY
0.00006969       71529.   1026430290.    15.7579003     0.0010981    -0.0051737
3.2449922   -60.0000000 CY
0.00007219       71873.    995649181.    15.6118467     0.0011270    -0.0053699
3.2952168   -60.0000000 CY
0.00007469       72168.    966265886.    15.4688951     0.0011553    -0.0055665
3.3428562   -60.0000000 CY
0.00007719       72461.    938767406.    15.3362250     0.0011838    -0.0057631
3.3889594   -60.0000000 CY
0.00007969       72753.    912976090.    15.2128789     0.0012123    -0.0059596
3.4335131   -60.0000000 CY
0.00008219       73043.    888735901.    15.0980161     0.0012409    -0.0061560
3.4765039   -60.0000000 CY
0.00008469       73332.    865909219.    14.9908951     0.0012695    -0.0063523
3.5179182   -60.0000000 CY
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0.00008969       73760.    822413964.    14.7683890     0.0013245    -0.0067473
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0.00009219       73946.    802130888.    14.6571716     0.0013512    -0.0069457
3.6263012   -60.0000000 CY
0.00009469       74132.    782907359.    14.5526048     0.0013779    -0.0071439
3.6587714   -60.0000000 CY
0.00009719       74316.    764661452.    14.4541830     0.0014048    -0.0073421
3.6898539   -60.0000000 CY
0.00009969       74498.    747319460.    14.3614516     0.0014317    -0.0075402
3.7195367   -60.0000000 CY
 0.0001022       74680.    730814885.    14.2740006     0.0014586    -0.0077383
3.7478077   -60.0000000 CY
 0.0001047       74861.    715087577.    14.1914595     0.0014857    -0.0079362
3.7746544   -60.0000000 CY
 0.0001072       75025.    699945982.    14.1108833     0.0015125    -0.0081344
3.7997989   -60.0000000 CY
 0.0001097       75180.    685404448.    14.0331516     0.0015393    -0.0083326
3.8233754   -60.0000000 CY
 0.0001122       75302.    671219679.    13.9539371     0.0015655    -0.0085314
3.8450124   -60.0000000 CY
 0.0001147       75413.    657549534.    13.8694511     0.0015907    -0.0087312
3.8644560   -60.0000000 CY
 0.0001172       75522.    644451897.    13.7887112     0.0016159    -0.0089310
3.8826089   -60.0000000 CY
 0.0001197       75630.    631894301.    13.7119400     0.0016411    -0.0091307
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3.8995053	-60.0000000 CY					
0.0001222	75737.	619843500.	13.6389001	0.0016665	-0.0093304	
3.9151339	-60.0000000 CY					
0.0001247	75844.	608268909.	13.5693733	0.0016919	-0.0095299	
3.9294835	-60.0000000 CY					
0.0001272	75949.	597142349.	13.5031587	0.0017174	-0.0097294	
3.9425425	-60.0000000 CY					
0.0001297	76054.	586437810.	13.4400713	0.0017430	-0.0099289	
3.9542992	-60.0000000 CY					
0.0001322	76157.	576131249.	13.3799398	0.0017687	-0.0101282	
3.9647417	-60.0000000 CY					
0.0001347	76260.	566200405.	13.3226064	0.0017944	-0.0103275	
3.9738577	-60.0000000 CY					
0.0001372	76362.	556624515.	13.2679208	0.0018202	-0.0105267	
3.9816347	-60.0000000 CY					
0.0001522	76813.	504726205.	12.9494098	0.0019707	-0.0117261	
3.9949889	-60.0000000 CY					
0.0001672	77130.	461336464.	12.6617596	0.0021169	-0.0129300	
3.9984594	-60.0000000 CY					
0.0001822	77420.	424946994.	12.4369309	0.0022659	-0.0141310	
3.9989652	60.0000000 CY					
0.0001972	77677.	393924707.	12.2566839	0.0024169	-0.0153300	
3.9907828	60.0000000 CY					
0.0002122	77857.	366923256.	12.0873613	0.0025648	-0.0165321	
3.9968254	60.0000000 CY					
0.0002272	77967.	343181880.	11.9190820	0.0027079	-0.0177390	
3.9890894	60.0000000 CY					
0.0002422	78071.	322355717.	11.7773068	0.0028523	-0.0189446	
3.9997533	60.0000000 CY					
0.0002572	78165.	303920571.	11.6597117	0.0029987	-0.0201481	
3.9777862	60.0000000 CY					
0.0002722	78254.	287498954.	11.5594953	0.0031464	-0.0213505	
3.9914420	60.0000000 CYT					
0.0002872	78338.	272777754.	11.4736030	0.0032951	-0.0225518	
3.9998166	60.0000000 CYT					
0.0003022	78410.	259474355.	11.3996081	0.0034448	-0.0237521	
3.9803357	60.0000000 CYT					
0.0003172	78472.	247399530.	11.3332118	0.0035948	-0.0249521	
3.9756853	60.0000000 CYT					
0.0003322	78521.	236376659.	11.2775944	0.0037463	-0.0261506	
3.9922007	60.0000000 CYT					
0.0003472	78531.	226191870.	11.2152783	0.0038938	-0.0273531	
3.9993784	60.0000000 CYT					

Axial Thrust Force = 66.738 kips

Bending	Bending	Bending	Depth to	Max Comp	Max Tens

Max Conc Curvature Stress rad/in. ksi	Max Steel Moment Stress in-kip ksi	Run Msg	Stiffness kip-in2	N Axis in	Strain in/in	Strain in/in
3.12500E-07	4463.		1.42818E+10	52.7052183	0.00001647	-0.00001165
0.0689575	0.4735629					
6.25000E-07	8905.		1.42488E+10	48.8643650	0.00003054	-0.00002571
0.1273042	0.8775104					
9.37500E-07	13327.		1.42149E+10	47.5841670	0.00004461	-0.00003976
0.1852150	1.2814602					
0.00000125	17726.		1.41809E+10	46.9441122	0.00005868	-0.00005382
0.2426897	1.6854116					
0.00000156	22104.		1.41467E+10	46.5601110	0.00007275	-0.00006787
0.2997284	2.0893644					
0.00000188	26461.		1.41126E+10	46.3041365	0.00008682	-0.00008193
0.3563310	2.4933187					
0.00000219	30796.		1.40784E+10	46.1213196	0.0001009	-0.00009598
0.4124975	2.8972743					
0.00000250	35110.		1.40441E+10	45.9842261	0.0001150	-0.0001100
0.4682280	3.3012314					
0.00000281	35110.		1.24837E+10	22.1180073	0.00006221	-0.0001909
0.2542872	-5.4999220 C					
0.00000313	35110.		1.12353E+10	21.7225604	0.00006788	-0.0002134
0.2769712	-6.1468617 C					
0.00000344	35110.		1.02139E+10	21.3970091	0.00007355	-0.0002358
0.2995582	-6.7940013 C					
0.00000375	35110.		9362753767.	21.1251917	0.00007922	-0.0002583
0.3220685	-7.4411979 C					
0.00000406	35110.		8642541939.	20.8848624	0.00008484	-0.0002808
0.3443400	-8.0896115 C					
0.00000438	35110.		8025217514.	20.6794920	0.00009047	-0.0003033
0.3665549	-8.7379457 C					
0.00000469	35110.		7490203013.	20.5020902	0.00009610	-0.0003258
0.3887131	-9.3862002 C					
0.00000500	35110.		7022065325.	20.3474141	0.0001017	-0.0003483
0.4108146	-10.0343749 C					
0.00000531	35110.		6609002659.	20.2093356	0.0001074	-0.0003708
0.4328143	-10.6827961 C					
0.00000563	35110.		6241835844.	20.0823483	0.0001130	-0.0003933
0.4546509	-11.3319107 C					
0.00000594	35110.		5913318168.	19.9692073	0.0001186	-0.0004158
0.4764317	-11.9809427 C					
0.00000625	35110.		5617652260.	19.8678370	0.0001242	-0.0004383
0.4981567	-12.6298920 C					
0.00000656	35110.		5350145010.	19.7765568	0.0001298	-0.0004608

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0.5198259   -13.2787584 C
0.00000688       35110.   5106956600.    19.6939920     0.0001354    -0.0004834
0.5414392   -13.9275416 C
0.00000719       35110.   4884915009.    19.6190068     0.0001410    -0.0005059
0.5629964   -14.5762414 C
0.00000750       35110.   4681376883.    19.5506548     0.0001466    -0.0005284
0.5844975   -15.2248576 C
0.00000781       35110.   4494121808.    19.4881409     0.0001523    -0.0005509
0.6059425   -15.8733899 C
0.00000813       35110.   4321270969.    19.4307925     0.0001579    -0.0005734
0.6273312   -16.5218382 C
0.00000844       35110.   4161223896.    19.3780364     0.0001635    -0.0005959
0.6486636   -17.1702023 C
0.00000875       35110.   4012608757.    19.3281907     0.0001691    -0.0006184
0.6698992   -17.8187841 C
0.00000906       35110.   3874242938.    19.2806120     0.0001747    -0.0006409
0.6910265   -18.4676735 C
0.00000938       35110.   3745101507.    19.2365302     0.0001803    -0.0006634
0.7120982   -19.1164746 C
0.00000969       35110.   3624291781.    19.1956079     0.0001860    -0.0006859
0.7331143   -19.7651870 C
0.00001000       35110.   3511032663.    19.1575498     0.0001916    -0.0007084
0.7540748   -20.4138105 C
0.00001031       35110.   3404637733.    19.1220963     0.0001972    -0.0007309
0.7749795   -21.0623449 C
0.00001063       35110.   3304501329.    19.0890184     0.0002028    -0.0007534
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0.8580392   -23.6555860 C
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0.8786639   -24.3036709 C
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3.9974436	60.0000000 CYT					

Axial Thrust Force = 80.673 kips

Bending Max Conc Curvature Stress rad/in. ksi	Bending Max Steel Moment Stress in-kip ksi	Run Msg	Bending Stiffness kip-in2	Depth to N Axis in	Max Comp Strain in/in	Max Tens Strain in/in
3.12500E-07	4463.		1.42807E+10	54.3142638	0.00001697	-0.00001115
0.0710714	0.4881449					
6.25000E-07	8905.		1.42482E+10	49.6712903	0.00003104	-0.00002521

0.1294085	0.8921359					
9.37500E-07	13326.		1.42145E+10	48.1237582	0.00004512	-0.00003926
0.1873099	1.2961303					
0.00000125	17726.		1.41806E+10	47.3500491	0.00005919	-0.00005331
0.2447752	1.7001268					
0.00000156	22104.		1.41465E+10	46.8858638	0.00007326	-0.00006737
0.3018043	2.1041251					
0.00000188	26461.		1.41124E+10	46.5764385	0.00008733	-0.00008142
0.3583974	2.5081251					
0.00000219	30796.		1.40782E+10	46.3554477	0.0001014	-0.00009547
0.4145543	2.9121268					
0.00000250	35110.		1.40440E+10	46.1897282	0.0001155	-0.0001095
0.4702751	3.3161303					
0.00000281	35110.		1.24835E+10	22.9274320	0.00006448	-0.0001886
0.2636246	-5.4339032 C					
0.00000313	35110.		1.12352E+10	22.4671824	0.00007021	-0.0002110
0.2864863	-6.0793803 C					
0.00000344	35110.		1.02138E+10	22.0913941	0.00007594	-0.0002334
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0.00000375	35110.		9362652629.	21.7653403	0.00008162	-0.0002559
0.3318247	-7.3715817 C					
0.00000406	35110.		8642448580.	21.4883562	0.00008730	-0.0002783
0.3542736	-8.0185124 C					
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0.3988946	-9.3128792 C					
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0.00000594	35110.		5913254292.	20.4110744	0.0001212	-0.0004132
0.4868674	-11.9048587 C					
0.00000625	35110.		5617591577.	20.2939881	0.0001268	-0.0004357
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0.5950237	-15.1469071 C					
0.00000781	35110.		4494073262.	19.8324991	0.0001549	-0.0005482
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1.7926196   -54.5689599 C
0.00002719        49346.   1815011813.    18.7067318     0.0005086    -0.0019383
1.8281543   -55.8554893 C
0.00002781        50412.   1812567293.    18.7041622     0.0005202    -0.0019829
1.8634458   -57.1415960 C
0.00002844        51478.   1810200626.    18.7022215     0.0005318    -0.0020275
1.8984932   -58.4272773 C
0.00002906        52542.   1807906627.    18.7008723     0.0005435    -0.0020721
1.9332959   -59.7125304 C
0.00002969        53606.   1805680543.    18.7000806     0.0005552    -0.0021167
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2.0362265   -60.0000000 CY
0.00003156        56727.   1797299363.    18.6938616     0.0005900    -0.0022506
2.0694008   -60.0000000 CY
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2.1007168   -60.0000000 CY
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   3.9872031    60.0000000 CY
    0.0002272       79346.    349251950.    12.0729472     0.0027428    -0.0177041
   3.9954586    60.0000000 CY
    0.0002422       79445.    328029537.    11.9253416     0.0028882    -0.0189087
   3.9934040    60.0000000 CY
    0.0002572       79535.    309249221.    11.8019799     0.0030353    -0.0201116
   3.9827063    60.0000000 CYT
    0.0002722       79621.    292523402.    11.6962683     0.0031836    -0.0213133
   3.9971871    60.0000000 CYT
    0.0002872       79702.    277524699.    11.6065386     0.0033333    -0.0225136
   3.9920353    60.0000000 CYT
    0.0003022       79774.    263988631.    11.5296797     0.0034841    -0.0237127
   3.9680124    60.0000000 CYT
    0.0003172       79834.    251693724.    11.4589111     0.0036346    -0.0249123
   3.9870820    60.0000000 CYT
    0.0003322       79876.    240455871.    11.4063810     0.0037891    -0.0261078
   3.9981550    60.0000000 CYT
    0.0003472       79876.    230067138.    11.4798940     0.0039857    -0.0272612
   3.9785681    60.0000000 CYT
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Summary of Results for Nominal (Unfactored) Moment Capacity for Section 1

Moment values interpolated at maximum compressive strain = 0.003
or maximum developed moment if pile fails at smaller strains.

Load No.	Axial Thrust kips	Nominal Mom. Cap. in-kip	Max. Comp. Strain
1	41.711	78165.337	0.00300000
2	66.738	79031.309	0.00300000
3	80.673	79513.340	0.00300000

Note that the values of moment capacity in the table above are not
factored by a strength reduction factor (phi-factor).

In ACI 318, the value of the strength reduction factor depends on whether
the transverse reinforcing steel bars are tied hoops (0.65) or spirals (0.70).

The above values should be multiplied by the appropriate strength reduction
factor to compute ultimate moment capacity according to ACI 318, Section
9.3.2.2 or the value required by the design standard being followed.

The following table presents factored moment capacities and corresponding
bending stiffnesses computed for common resistance factor values used for
reinforced concrete sections.

Axial Load No.	Resist. Factor for Moment	Nominal Moment Cap in-kips	Ult. (Fac) Ax. Thrust kips	Ult. (Fac) Moment Cap in-kips	Bend. Stiff. at Ult Mom kip-in^2
1	0.65	78165.	27.112150	50807.	1.7736E+09
2	0.65	79031.	43.379700	51370.	1.7968E+09
3	0.65	79513.	52.437450	51684.	1.8098E+09
1	0.70	78165.	29.197700	54716.	1.7683E+09
2	0.70	79031.	46.716600	55322.	1.7897E+09
3	0.70	79513.	56.471100	55659.	1.8016E+09
1	0.75	78165.	31.283250	58624.	1.7153E+09
2	0.75	79031.	50.053500	59273.	1.7386E+09
3	0.75	79513.	60.504750	59635.	1.7514E+09

Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head ft	Equivalent Top Depth Below Grnd Surf ft	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer lbs	F1 Integral for Layer lbs
1	0.5000	0.00	N.A.	No	0.00	25934.
2	3.2500	2.7500	Yes	No	25934.	83511.
3	6.5000	6.1691	Yes	No	109445.	771881.
4	18.5000	20.3826	Yes	No	881326.	970175.
5	28.5000	31.2080	Yes	No	1851501.	1014835.
6	38.5000	38.0000	No	No	2866336.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals
for Layer n. Layering correction equivalent depths are computed only
for soil types with both shallow-depth and deep-depth expressions for
peak lateral load transfer. These soil types are soft and stiff clays,
non-liquefied sands, and cemented c-phi soil.

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 1

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 47437.0 lbs
Applied moment at pile head = 39087000.0 in-lbs
Axial thrust load on pile head = 66738.0 lbs

Depth X	Deflect. y	Bending Moment	Shear Force	Slope S	Total Stress	Bending Stiffness	Soil Res. Spr. Distrib. p
feet	inches	in-lbs	lbs	radians	psi*	in-lb^2	
							Es*h Lat. Load
							lb/inch lb/inch lb/inch
0.00	0.6121	3.91E+07	47437.	-0.00501	0.00	1.83E+12	0.00 0.00 0.00
0.3550	0.5910	3.93E+07	47437.	-0.00492	0.00	1.83E+12	0.00 0.00 0.00
0.7100	0.5703	3.95E+07	47330.	-0.00482	0.00	1.82E+12	-50.2968 375.7320 0.00
1.0650	0.5499	3.97E+07	46945.	-0.00473	0.00	1.82E+12	-130.4929 1011. 0.00
1.4200	0.5300	3.99E+07	46231.	-0.00464	0.00	1.82E+12	-204.7730 1646. 0.00
1.7750	0.5104	4.01E+07	45212.	-0.00454	0.00	1.82E+12	-273.3148 2281. 0.00
2.1300	0.4912	4.03E+07	43914.	-0.00445	0.00	1.82E+12	-336.2975 2916. 0.00
2.4850	0.4725	4.05E+07	42359.	-0.00436	0.00	1.82E+12	-393.9014 3552. 0.00
2.8400	0.4541	4.06E+07	40569.	-0.00426	0.00	1.82E+12	-446.3077 4187. 0.00
3.1950	0.4362	4.08E+07	38567.	-0.00417	0.00	1.82E+12	-493.6991 4822. 0.00
3.5500	0.4186	4.10E+07	36373.	-0.00407	0.00	1.82E+12	-536.2591 5457. 0.00
3.9050	0.4015	4.11E+07	34008.	-0.00397	0.00	1.82E+12	-574.1721 6092. 0.00
4.2600	0.3848	4.13E+07	31490.	-0.00388	0.00	1.82E+12	-607.6234 6727. 0.00
4.6150	0.3685	4.14E+07	28840.	-0.00378	0.00	1.82E+12	-636.7990 7363. 0.00

4.9700	0.3526	4.15E+07	26074.	-0.00368	0.00	1.82E+12
-661.8857	7998.	0.00				
5.3250	0.3371	4.16E+07	23209.	-0.00359	0.00	1.82E+12
-683.0708	8633.	0.00				
5.6800	0.3220	4.17E+07	20262.	-0.00349	0.00	1.82E+12
-700.5421	9268.	0.00				
6.0350	0.3073	4.18E+07	17248.	-0.00339	0.00	1.82E+12
-714.4877	9903.	0.00				
6.3900	0.2931	4.19E+07	14181.	-0.00329	0.00	1.82E+12
-725.0959	10538.	0.00				
6.7450	0.2793	4.19E+07	9508.	-0.00319	0.00	1.82E+12
-1469.	22404.	0.00				
7.1000	0.2659	4.20E+07	3169.	-0.00310	0.00	1.82E+12
-1507.	24148.	0.00				
7.4550	0.2529	4.20E+07	-3327.	-0.00300	0.00	1.82E+12
-1543.	25985.	0.00				
7.8100	0.2404	4.19E+07	-9968.	-0.00290	0.00	1.82E+12
-1575.	27918.	0.00				
8.1650	0.2282	4.19E+07	-16746.	-0.00280	0.00	1.82E+12
-1607.	30004.	0.00				
8.5200	0.2165	4.18E+07	-23656.	-0.00270	0.00	1.82E+12
-1637.	32208.	0.00				
8.8750	0.2052	4.17E+07	-30685.	-0.00261	0.00	1.82E+12
-1663.	34531.	0.00				
9.2300	0.1943	4.15E+07	-37819.	-0.00251	0.00	1.82E+12
-1686.	36976.	0.00				
9.5850	0.1838	4.13E+07	-45046.	-0.00241	0.00	1.82E+12
-1706.	39549.	0.00				
9.9400	0.1737	4.11E+07	-52351.	-0.00231	0.00	1.82E+12
-1723.	42252.	0.00				
10.2950	0.1641	4.09E+07	-59721.	-0.00222	0.00	1.82E+12
-1737.	45090.	0.00				
10.6500	0.1548	4.06E+07	-67141.	-0.00212	0.00	1.82E+12
-1747.	48065.	0.00				
11.0050	0.1460	4.03E+07	-74598.	-0.00203	0.00	1.82E+12
-1754.	51179.	0.00				
11.3600	0.1376	4.00E+07	-82078.	-0.00193	0.00	1.82E+12
-1758.	54433.	0.00				
11.7150	0.1295	3.96E+07	-89534.	-0.00184	0.00	1.82E+12
-1743.	57331.	0.00				
12.0700	0.1219	3.92E+07	-96851.	-0.00175	0.00	1.82E+12
-1692.	59146.	0.00				
12.4250	0.1146	3.88E+07	-103948.	-0.00166	0.00	1.83E+12
-1640.	60961.	0.00				
12.7800	0.1077	3.84E+07	-110823.	-0.00157	0.00	1.83E+12
-1588.	62775.	0.00				
13.1350	0.1012	3.79E+07	-117474.	-0.00148	0.00	1.83E+12
-1535.	64590.	0.00				

13.4900	0.09513	3.74E+07	-123903.	-0.00139	0.00	1.83E+12
-1483.	66405.	0.00				
13.8450	0.08939	3.68E+07	-130110.	-0.00131	0.00	1.83E+12
-1431.	68220.	0.00				
14.2000	0.08401	3.62E+07	-136101.	-0.00122	0.00	1.83E+12
-1381.	70034.	0.00				
14.5550	0.07898	3.57E+07	-141880.	-0.00114	0.00	1.84E+12
-1332.	71849.	0.00				
14.9100	0.07432	3.50E+07	-147455.	-0.00109	0.00	8.85E+12
-1285.	73664.	0.00				
15.2650	0.06972	3.44E+07	-152823.	-0.00107	0.00	1.40E+13
-1235.	75479.	0.00				
15.6200	0.06516	3.37E+07	-157972.	-0.00106	0.00	1.41E+13
-1182.	77293.	0.00				
15.9750	0.06066	3.31E+07	-162890.	-0.00105	0.00	1.41E+13
-1126.	79108.	0.00				
16.3300	0.05619	3.23E+07	-167563.	-0.00104	0.00	1.41E+13
-1067.	80923.	0.00				
16.6850	0.05176	3.16E+07	-171977.	-0.00103	0.00	1.41E+13
-1005.	82738.	0.00				
17.0400	0.04738	3.09E+07	-176122.	-0.00102	0.00	1.41E+13
-940.3752	84552.	0.00				
17.3950	0.04303	3.01E+07	-179983.	-0.00102	0.00	1.41E+13
-872.4775	86367.	0.00				
17.7500	0.03873	2.93E+07	-183549.	-0.00101	0.00	1.41E+13
-801.6819	88182.	0.00				
18.1050	0.03446	2.86E+07	-186807.	-9.98E-04	0.00	1.41E+13
-728.0164	89997.	0.00				
18.4600	0.03023	2.78E+07	-189746.	-9.89E-04	0.00	1.41E+13
-651.5072	91812.	0.00				
18.8150	0.02603	2.69E+07	-193205.	-9.81E-04	0.00	1.41E+13
-972.7029	159165.	0.00				
19.1700	0.02187	2.61E+07	-197052.	-9.73E-04	0.00	1.41E+13
-833.0870	162250.	0.00				
19.5250	0.01775	2.53E+07	-200293.	-9.65E-04	0.00	1.41E+13
-688.7477	165335.	0.00				
19.8800	0.01365	2.44E+07	-202910.	-9.58E-04	0.00	1.41E+13
-539.7144	168420.	0.00				
20.2350	0.00959	2.35E+07	-204882.	-9.50E-04	0.00	1.41E+13
-386.0125	171505.	0.00				
20.5900	0.00555	2.27E+07	-206189.	-9.43E-04	0.00	1.41E+13
-227.6638	174590.	0.00				
20.9450	0.00155	2.18E+07	-206811.	-9.37E-04	0.00	1.41E+13
-64.6865	177675.	0.00				
21.3000	-0.00243	2.09E+07	-206730.	-9.30E-04	0.00	1.42E+13
102.9049	180760.	0.00				
21.6550	-0.00637	2.00E+07	-205925.	-9.24E-04	0.00	1.42E+13
275.0989	183845.	0.00				

22.0100	-0.01030	1.91E+07	-204376.	-9.18E-04	0.00	1.42E+13
451.8872	186931.	0.00				
22.3650	-0.01420	1.83E+07	-202065.	-9.13E-04	0.00	1.42E+13
633.2647	190016.	0.00				
22.7200	-0.01807	1.74E+07	-199051.	-9.07E-04	0.00	1.42E+13
781.8986	184302.	0.00				
23.0750	-0.02193	1.66E+07	-195611.	-9.02E-04	0.00	1.42E+13
832.8856	161818.	0.00				
23.4300	-0.02576	1.58E+07	-191972.	-8.97E-04	0.00	1.42E+13
875.8930	144856.	0.00				
23.7850	-0.02957	1.49E+07	-188162.	-8.93E-04	0.00	1.42E+13
912.5862	131468.	0.00				
24.1400	-0.03336	1.42E+07	-184207.	-8.88E-04	0.00	1.42E+13
944.0687	120542.	0.00				
24.4950	-0.03714	1.34E+07	-180128.	-8.84E-04	0.00	1.42E+13
971.1124	111392.	0.00				
24.8500	-0.04090	1.26E+07	-175942.	-8.80E-04	0.00	1.42E+13
994.2794	103570.	0.00				
25.2050	-0.04464	1.19E+07	-171664.	-8.77E-04	0.00	1.42E+13
1014.	96769.	0.00				
25.5600	-0.04836	1.12E+07	-167309.	-8.73E-04	0.00	1.42E+13
1031.	90774.	0.00				
25.9150	-0.05208	1.05E+07	-162890.	-8.70E-04	0.00	1.42E+13
1044.	85426.	0.00				
26.2700	-0.05578	9772877.	-158418.	-8.67E-04	0.00	1.42E+13
1055.	80605.	0.00				
26.6250	-0.05946	9107840.	-153903.	-8.64E-04	0.00	1.42E+13
1064.	76222.	0.00				
26.9800	-0.06314	8462111.	-149358.	-8.61E-04	0.00	1.43E+13
1070.	72205.	0.00				
27.3350	-0.06680	7835801.	-144791.	-8.59E-04	0.00	1.43E+13
1074.	68499.	0.00				
27.6900	-0.07046	7228984.	-140211.	-8.57E-04	0.00	1.43E+13
1076.	65060.	0.00				
28.0450	-0.07410	6641693.	-135627.	-8.55E-04	0.00	1.43E+13
1076.	61850.	0.00				
28.4000	-0.07774	6073926.	-130978.	-8.53E-04	0.00	1.43E+13
1107.	60655.	0.00				
28.7550	-0.08137	5526244.	-126118.	-8.51E-04	0.00	1.43E+13
1175.	61522.	0.00				
29.1100	-0.08499	4999887.	-121027.	-8.49E-04	0.00	1.43E+13
1215.	60896.	0.00				
29.4650	-0.08860	4495577.	-115767.	-8.48E-04	0.00	1.43E+13
1255.	60326.	0.00				
29.8200	-0.09221	4014036.	-110337.	-8.47E-04	0.00	1.43E+13
1295.	59805.	0.00				
30.1750	-0.09582	3555988.	-104737.	-8.46E-04	0.00	1.43E+13
1334.	59328.	0.00				

```
   30.5300   -0.09942   3122156.    -98968.  -8.45E-04       0.00   1.43E+13
1374.     58890.       0.00
   30.8850    -0.1030   2713265.    -93028.  -8.44E-04       0.00   1.43E+13
1414.     58487.       0.00
   31.2400    -0.1066   2330040.    -86917.  -8.43E-04       0.00   1.43E+13
1454.     58117.       0.00
   31.5950    -0.1102   1973208.    -80636.  -8.42E-04       0.00   1.43E+13
1495.     57775.       0.00
   31.9500    -0.1138   1643497.    -74184.  -8.42E-04       0.00   1.43E+13
1535.     57460.       0.00
   32.3050    -0.1174   1341638.    -67560.  -8.41E-04       0.00   1.43E+13
1575.     57169.       0.00
   32.6600    -0.1210   1068363.    -60764.  -8.41E-04       0.00   1.43E+13
1616.     56900.       0.00
   33.0150    -0.1245    824405.    -53796.  -8.41E-04       0.00   1.43E+13
1656.     56650.       0.00
   33.3700    -0.1281    610501.    -46654.  -8.41E-04       0.00   1.43E+13
1697.     56419.       0.00
   33.7250    -0.1317    427389.    -39339.  -8.40E-04       0.00   1.43E+13
1738.     56205.       0.00
   34.0800    -0.1353    275808.    -31850.  -8.40E-04       0.00   1.43E+13
1778.     56007.       0.00
   34.4350    -0.1389    156503.    -24186.  -8.40E-04       0.00   1.43E+13
1820.     55823.       0.00
   34.7900    -0.1424     70219.    -16347.  -8.40E-04       0.00   1.43E+13
1861.     55652.       0.00
   35.1450    -0.1460     17701.     -8298.  -8.40E-04       0.00   1.43E+13
1918.     55973.       0.00
   35.5000    -0.1496      0.00       0.00  -8.40E-04       0.00   1.43E+13
1977.     28152.       0.00
```

* This analysis computed pile response using nonlinear moment-curvature relationships. Values of total stress due to combined axial and bending stresses are computed only for elastic sections only and do not equal the actual stresses in concrete and steel. Stresses in concrete and steel may be interpolated from the output for nonlinear bending properties relative to the magnitude of bending moment developed in the pile.

Output Summary for Load Case No. 1:

```
Pile-head deflection             =     0.61213711 inches
Computed slope at pile head      =    -0.00500684 radians
Maximum bending moment           =      41950786. inch-lbs
Maximum shear force              =       -206811. lbs
Depth of maximum bending moment  =     7.45500000 feet below pile head
Depth of maximum shear force     =    20.94500000 feet below pile head
Number of iterations             =             95
```



```
Number of zero deflection points =              1
```

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

```
Shear force at pile head                              =      21347.0 lbs
Applied moment at pile head                           =   17589150.0 in-lbs
Axial thrust load on pile head                        =      41711.0 lbs
```

Depth X	Deflect. y	Bending Moment	Shear Force	Slope S	Total Stress	Bending Stiffness	Soil Res. Spr. Distrib. p
Es*h	Lat. Load						
feet	inches	in-lbs	lbs	radians	psi*	in-lb^2	
lb/inch	lb/inch	lb/inch					
0.00	0.1363	1.76E+07	21347.	-6.75E-04	0.00	1.42E+13	
0.00	0.00	0.00					
0.3550	0.1334	1.77E+07	21347.	-6.70E-04	0.00	1.42E+13	
0.00	0.00	0.00					
0.7100	0.1306	1.78E+07	21322.	-6.65E-04	0.00	1.42E+13	
-11.5166	375.7320	0.00					
1.0650	0.1278	1.79E+07	21233.	-6.59E-04	0.00	1.42E+13	
-30.3161	1011.	0.00					
1.4200	0.1250	1.80E+07	21066.	-6.54E-04	0.00	1.42E+13	
-48.2834	1646.	0.00					
1.7750	0.1222	1.80E+07	20824.	-6.48E-04	0.00	1.42E+13	
-65.4290	2281.	0.00					
2.1300	0.1194	1.81E+07	20510.	-6.43E-04	0.00	1.42E+13	
-81.7632	2916.	0.00					
2.4850	0.1167	1.82E+07	20129.	-6.38E-04	0.00	1.42E+13	
-97.2965	3552.	0.00					
2.8400	0.1140	1.83E+07	19683.	-6.32E-04	0.00	1.42E+13	
-112.0392	4187.	0.00					
3.1950	0.1113	1.84E+07	19176.	-6.27E-04	0.00	1.42E+13	
-126.0020	4822.	0.00					
3.5500	0.1087	1.85E+07	18611.	-6.21E-04	0.00	1.42E+13	
-139.1955	5457.	0.00					
3.9050	0.1060	1.85E+07	17992.	-6.15E-04	0.00	1.42E+13	
-151.6303	6092.	0.00					
4.2600	0.1034	1.86E+07	17321.	-6.10E-04	0.00	1.42E+13	

-163.3173	6727.	0.00				
4.6150	0.1008	1.87E+07	16602.	-6.04E-04	0.00	1.42E+13
-174.2671	7363.	0.00				
4.9700	0.09827	1.88E+07	15838.	-5.99E-04	0.00	1.42E+13
-184.4907	7998.	0.00				
5.3250	0.09573	1.88E+07	15031.	-5.93E-04	0.00	1.42E+13
-193.9988	8633.	0.00				
5.6800	0.09322	1.89E+07	14186.	-5.87E-04	0.00	1.42E+13
-202.8025	9268.	0.00				
6.0350	0.09073	1.89E+07	13305.	-5.82E-04	0.00	1.42E+13
-210.9127	9903.	0.00				
6.3900	0.08826	1.90E+07	12391.	-5.76E-04	0.00	1.42E+13
-218.3405	10538.	0.00				
6.7450	0.08582	1.91E+07	10556.	-5.70E-04	0.00	1.42E+13
-643.1337	31924.	0.00				
7.1000	0.08340	1.91E+07	7779.	-5.64E-04	0.00	1.42E+13
-660.5506	33739.	0.00				
7.4550	0.08101	1.91E+07	4932.	-5.59E-04	0.00	1.42E+13
-676.1124	35554.	0.00				
7.8100	0.07864	1.91E+07	2022.	-5.53E-04	0.00	1.42E+13
-689.8506	37369.	0.00				
8.1650	0.07630	1.91E+07	-941.9470	-5.47E-04	0.00	1.42E+13
-701.7967	39183.	0.00				
8.5200	0.07398	1.91E+07	-3953.	-5.41E-04	0.00	1.42E+13
-711.9821	40998.	0.00				
8.8750	0.07169	1.91E+07	-7004.	-5.36E-04	0.00	1.42E+13
-720.4378	42813.	0.00				
9.2300	0.06942	1.91E+07	-10088.	-5.30E-04	0.00	1.42E+13
-727.1950	44628.	0.00				
9.5850	0.06717	1.90E+07	-13196.	-5.24E-04	0.00	1.42E+13
-732.2844	46443.	0.00				
9.9400	0.06495	1.90E+07	-16323.	-5.19E-04	0.00	1.42E+13
-735.7364	48257.	0.00				
10.2950	0.06275	1.89E+07	-19462.	-5.13E-04	0.00	1.42E+13
-737.5813	50072.	0.00				
10.6500	0.06058	1.88E+07	-22604.	-5.07E-04	0.00	1.42E+13
-737.8488	51887.	0.00				
11.0050	0.05843	1.87E+07	-25745.	-5.02E-04	0.00	1.42E+13
-736.5685	53702.	0.00				
11.3600	0.05631	1.86E+07	-28877.	-4.96E-04	0.00	1.42E+13
-733.7692	55516.	0.00				
11.7150	0.05420	1.84E+07	-31993.	-4.90E-04	0.00	1.42E+13
-729.4796	57331.	0.00				
12.0700	0.05213	1.83E+07	-35089.	-4.85E-04	0.00	1.42E+13
-723.7277	59146.	0.00				
12.4250	0.05007	1.81E+07	-38156.	-4.79E-04	0.00	1.42E+13
-716.5411	60961.	0.00				
12.7800	0.04804	1.80E+07	-41191.	-4.74E-04	0.00	1.42E+13

-707.9467	62775.	0.00				
13.1350	0.04603	1.78E+07	-44185.	-4.69E-04	0.00	1.42E+13
-697.9709	64590.	0.00				
13.4900	0.04405	1.76E+07	-47134.	-4.63E-04	0.00	1.42E+13
-686.6393	66405.	0.00				
13.8450	0.04209	1.74E+07	-50032.	-4.58E-04	0.00	1.42E+13
-673.9771	68220.	0.00				
14.2000	0.04015	1.72E+07	-52874.	-4.53E-04	0.00	1.42E+13
-660.0087	70034.	0.00				
14.5550	0.03823	1.69E+07	-55653.	-4.48E-04	0.00	1.42E+13
-644.7577	71849.	0.00				
14.9100	0.03633	1.67E+07	-58365.	-4.43E-04	0.00	1.42E+13
-628.2471	73664.	0.00				
15.2650	0.03446	1.64E+07	-61003.	-4.38E-04	0.00	1.42E+13
-610.4990	75479.	0.00				
15.6200	0.03260	1.62E+07	-63563.	-4.33E-04	0.00	1.42E+13
-591.5347	77293.	0.00				
15.9750	0.03077	1.59E+07	-66040.	-4.28E-04	0.00	1.42E+13
-571.3749	79108.	0.00				
16.3300	0.02896	1.56E+07	-68429.	-4.23E-04	0.00	1.42E+13
-550.0390	80923.	0.00				
16.6850	0.02716	1.53E+07	-70724.	-4.19E-04	0.00	1.42E+13
-527.5461	82738.	0.00				
17.0400	0.02539	1.50E+07	-72921.	-4.14E-04	0.00	1.42E+13
-503.9139	84552.	0.00				
17.3950	0.02363	1.47E+07	-75015.	-4.10E-04	0.00	1.42E+13
-479.1596	86367.	0.00				
17.7500	0.02190	1.44E+07	-77001.	-4.05E-04	0.00	1.42E+13
-453.2991	88182.	0.00				
18.1050	0.02018	1.40E+07	-78875.	-4.01E-04	0.00	1.42E+13
-426.3478	89997.	0.00				
18.4600	0.01848	1.37E+07	-80632.	-3.97E-04	0.00	1.42E+13
-398.3199	91812.	0.00				
18.8150	0.01680	1.34E+07	-82817.	-3.93E-04	0.00	1.42E+13
-627.6886	159165.	0.00				
19.1700	0.01514	1.30E+07	-85382.	-3.89E-04	0.00	1.42E+13
-576.4467	162250.	0.00				
19.5250	0.01349	1.26E+07	-87724.	-3.85E-04	0.00	1.42E+13
-523.4372	165335.	0.00				
19.8800	0.01185	1.22E+07	-89838.	-3.81E-04	0.00	1.42E+13
-468.6776	168420.	0.00				
20.2350	0.01024	1.19E+07	-91714.	-3.78E-04	0.00	1.42E+13
-412.1832	171505.	0.00				
20.5900	0.00864	1.15E+07	-93346.	-3.74E-04	0.00	1.42E+13
-353.9677	174590.	0.00				
20.9450	0.00705	1.11E+07	-94726.	-3.71E-04	0.00	1.42E+13
-294.0428	177675.	0.00				
21.3000	0.00548	1.07E+07	-95847.	-3.68E-04	0.00	1.42E+13

```
-232.4186    180760.       0.00
   21.6550    0.00392   1.02E+07    -96703.  -3.64E-04       0.00   1.42E+13
-169.1032    183845.       0.00
   22.0100    0.00237   9836549.    -97285.  -3.61E-04       0.00   1.42E+13
-104.1030    186931.       0.00
   22.3650   8.39E-04   9421236.    -97586.  -3.59E-04       0.00   1.42E+13
-37.4228    190016.       0.00
   22.7200  -6.82E-04   9005243.    -97600.  -3.56E-04       0.00   1.42E+13
30.9343    193101.       0.00
   23.0750   -0.00219   8589811.    -97319.  -3.53E-04       0.00   1.43E+13
100.9669    196186.       0.00
   23.4300   -0.00369   8176211.    -96736.  -3.51E-04       0.00   1.43E+13
172.6748    199271.       0.00
   23.7850   -0.00518   7765744.    -95844.  -3.48E-04       0.00   1.43E+13
246.0594    202356.       0.00
   24.1400   -0.00666   7359742.    -94636.  -3.46E-04       0.00   1.43E+13
321.1233    205441.       0.00
   24.4950   -0.00813   6959568.    -93105.  -3.44E-04       0.00   1.43E+13
397.8704    208526.       0.00
   24.8500   -0.00959   6566613.    -91243.  -3.42E-04       0.00   1.43E+13
476.3057    211611.       0.00
   25.2050   -0.01104   6182302.    -89128.  -3.40E-04       0.00   1.43E+13
516.4270    199259.       0.00
   25.5600   -0.01249   5807363.    -86899.  -3.38E-04       0.00   1.43E+13
529.8760    180798.       0.00
   25.9150   -0.01392   5442039.    -84620.  -3.36E-04       0.00   1.43E+13
540.1544    165283.       0.00
   26.2700   -0.01535   5086517.    -82303.  -3.35E-04       0.00   1.43E+13
547.6771    151975.       0.00
   26.6250   -0.01678   4740934.    -79959.  -3.33E-04       0.00   1.43E+13
552.7627    140370.       0.00
   26.9800   -0.01819   4405383.    -77598.  -3.32E-04       0.00   1.43E+13
555.6640    130113.       0.00
   27.3350   -0.01960   4079914.    -75229.  -3.31E-04       0.00   1.43E+13
556.5865    120943.       0.00
   27.6900   -0.02101   3764547.    -72860.  -3.30E-04       0.00   1.43E+13
555.7017    112666.       0.00
   28.0450   -0.02241   3459264.    -70498.  -3.29E-04       0.00   1.43E+13
553.1554    105135.       0.00
   28.4000   -0.02381   3164019.    -68105.  -3.28E-04       0.00   1.43E+13
570.4550    102060.       0.00
   28.7550   -0.02520   2879126.    -65603.  -3.27E-04       0.00   1.43E+13
604.1503    102112.       0.00
   29.1100   -0.02659   2605197.    -62982.  -3.26E-04       0.00   1.43E+13
626.5747    100368.       0.00
   29.4650   -0.02798   2342639.    -60265.  -3.25E-04       0.00   1.43E+13
648.7929     98777.       0.00
   29.8200   -0.02936   2091855.    -57454.  -3.24E-04       0.00   1.43E+13
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670.8280     97320.       0.00
   30.1750   -0.03075   1853244.    -54550.  -3.24E-04       0.00   1.43E+13
692.6998     95979.       0.00
   30.5300   -0.03212   1627204.    -51553.  -3.23E-04       0.00   1.43E+13
714.4252     94741.       0.00
   30.8850   -0.03350   1414130.    -48463.  -3.23E-04       0.00   1.43E+13
736.0187     93594.       0.00
   31.2400   -0.03487   1214412.    -45282.  -3.23E-04       0.00   1.43E+13
757.4930     92528.       0.00
   31.5950   -0.03625   1028441.    -42010.  -3.22E-04       0.00   1.43E+13
778.8589     91534.       0.00
   31.9500   -0.03762    856604.    -38646.  -3.22E-04       0.00   1.43E+13
800.1256     90604.       0.00
   32.3050   -0.03899    699287.    -35193.  -3.22E-04       0.00   1.43E+13
821.3013     89733.       0.00
   32.6600   -0.04036    556875.    -31649.  -3.21E-04       0.00   1.43E+13
842.3927     88913.       0.00
   33.0150   -0.04173    429751.    -28016.  -3.21E-04       0.00   1.43E+13
863.4056     88141.       0.00
   33.3700   -0.04310    318295.    -24293.  -3.21E-04       0.00   1.43E+13
884.3449     87412.       0.00
   33.7250   -0.04447    222888.    -20481.  -3.21E-04       0.00   1.43E+13
905.2144     86722.       0.00
   34.0800   -0.04583    143908.    -16581.  -3.21E-04       0.00   1.43E+13
926.0173     86067.       0.00
   34.4350   -0.04720     81733.    -12592.  -3.21E-04       0.00   1.43E+13
946.7562     85445.       0.00
   34.7900   -0.04857     36740.     -8515.  -3.21E-04       0.00   1.43E+13
967.4328     84852.       0.00
   35.1450   -0.04994      9303.     -4326.  -3.21E-04       0.00   1.43E+13
999.2344     85242.       0.00
   35.5000   -0.05130       0.00       0.00  -3.21E-04       0.00   1.43E+13
1032.     42826.       0.00
```

* This analysis computed pile response using nonlinear moment-curvature relationships. Values of total stress due to combined axial and bending stresses are computed only for elastic sections only and do not equal the actual stresses in concrete and steel. Stresses in concrete and steel may be interpolated from the output for nonlinear bending properties relative to the magnitude of bending moment developed in the pile.

Output Summary for Load Case No. 2:

```
Pile-head deflection             =     0.13628181 inches
Computed slope at pile head      =    -0.00067523 radians
Maximum bending moment           =      19137200. inch-lbs
Maximum shear force              =        -97600. lbs
```

Depth of maximum bending moment = 8.16500000 feet below pile head
Depth of maximum shear force = 22.72000000 feet below pile head
Number of iterations = 10
Number of zero deflection points = 1

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 9065.0 lbs
Applied moment at pile head = 7452106.0 in-lbs
Axial thrust load on pile head = 80673.0 lbs

Depth X	Deflect. y	Bending Moment	Shear Force	Slope S	Total Stress	Bending Stiffness	Soil Res. Es*h	Soil Spr. Lat. Load	Distrib. p
feet	inches	in-lbs	lbs	radians	psi*	in-lb^2	lb/inch	lb/inch	lb/inch
0.00	0.05245	7452106.	9065.	-2.60E-04	0.00	1.43E+13	0.00	0.00	0.00
0.3550	0.05135	7490812.	9065.	-2.58E-04	0.00	1.43E+13	0.00	0.00	0.00
0.7100	0.05025	7529517.	9056.	-2.56E-04	0.00	1.43E+13	-4.4324	375.7320	0.00
1.0650	0.04917	7568141.	9021.	-2.53E-04	0.00	1.43E+13	-11.6681	1011.	0.00
1.4200	0.04810	7606552.	8957.	-2.51E-04	0.00	1.43E+13	-18.5842	1646.	0.00
1.7750	0.04703	7644626.	8864.	-2.49E-04	0.00	1.43E+13	-25.1852	2281.	0.00
2.1300	0.04598	7682241.	8743.	-2.46E-04	0.00	1.43E+13	-31.4753	2916.	0.00
2.4850	0.04493	7719285.	8596.	-2.44E-04	0.00	1.43E+13	-37.4590	3552.	0.00
2.8400	0.04390	7755648.	8424.	-2.42E-04	0.00	1.43E+13	-43.1407	4187.	0.00
3.1950	0.04287	7791227.	8229.	-2.40E-04	0.00	1.43E+13	-48.5249	4822.	0.00
3.5500	0.04185	7825925.	8012.	-2.37E-04	0.00	1.43E+13	-53.6160	5457.	0.00

3.9050	0.04085	7859649.	7773.	-2.35E-04	0.00	1.43E+13	-58.4185	6092.	0.00
4.2600	0.03985	7892312.	7514.	-2.33E-04	0.00	1.43E+13	-62.9369	6727.	0.00
4.6150	0.03887	7923832.	7237.	-2.30E-04	0.00	1.43E+13	-67.1759	7363.	0.00
4.9700	0.03789	7954132.	6943.	-2.28E-04	0.00	1.43E+13	-71.1399	7998.	0.00
5.3250	0.03693	7983140.	6632.	-2.25E-04	0.00	1.43E+13	-74.8336	8633.	0.00
5.6800	0.03597	8010790.	6306.	-2.23E-04	0.00	1.43E+13	-78.2615	9268.	0.00
6.0350	0.03503	8037018.	5966.	-2.21E-04	0.00	1.43E+13	-81.4284	9903.	0.00
6.3900	0.03409	8061768.	5612.	-2.18E-04	0.00	1.43E+13	-84.3388	10538.	0.00
6.7450	0.03317	8084987.	4903.	-2.16E-04	0.00	1.43E+13	-248.5639	31924.	0.00
7.1000	0.03225	8103693.	3830.	-2.13E-04	0.00	1.43E+13	-255.4539	33739.	0.00
7.4550	0.03135	8117764.	2728.	-2.11E-04	0.00	1.43E+13	-261.6511	35554.	0.00
7.8100	0.03046	8127085.	1602.	-2.09E-04	0.00	1.43E+13	-267.1690	37369.	0.00
8.1650	0.02957	8131556.	453.5488	-2.06E-04	0.00	1.43E+13	-272.0208	39183.	0.00
8.5200	0.02870	8131090.	-714.2038	-2.04E-04	0.00	1.43E+13	-276.2199	40998.	0.00
8.8750	0.02784	8125611.	-1898.	-2.01E-04	0.00	1.43E+13	-279.7794	42813.	0.00
9.2300	0.02699	8115054.	-3097.	-1.99E-04	0.00	1.43E+13	-282.7126	44628.	0.00
9.5850	0.02614	8099365.	-4306.	-1.96E-04	0.00	1.43E+13	-285.0325	46443.	0.00
9.9400	0.02531	8078502.	-5524.	-1.94E-04	0.00	1.43E+13	-286.7520	48257.	0.00
10.2950	0.02449	8052435.	-6748.	-1.92E-04	0.00	1.43E+13	-287.8841	50072.	0.00
10.6500	0.02368	8021143.	-7975.	-1.89E-04	0.00	1.43E+13	-288.4416	51887.	0.00
11.0050	0.02288	7984616.	-9204.	-1.87E-04	0.00	1.43E+13	-288.4369	53702.	0.00
11.3600	0.02209	7942853.	-10432.	-1.84E-04	0.00	1.43E+13	-287.8825	55516.	0.00
11.7150	0.02131	7895865.	-11656.	-1.82E-04	0.00	1.43E+13	-286.7908	57331.	0.00
12.0700	0.02054	7843671.	-12874.	-1.80E-04	0.00	1.43E+13	-285.1738	59146.	0.00

12.4250	0.01978	7786302.	-14084.	-1.77E-04	0.00	1.43E+13
-283.0434	60961.	0.00				
12.7800	0.01903	7723795.	-15284.	-1.75E-04	0.00	1.43E+13
-280.4112	62775.	0.00				
13.1350	0.01829	7656199.	-16472.	-1.73E-04	0.00	1.43E+13
-277.2889	64590.	0.00				
13.4900	0.01756	7583569.	-17646.	-1.70E-04	0.00	1.43E+13
-273.6875	66405.	0.00				
13.8450	0.01684	7505972.	-18803.	-1.68E-04	0.00	1.43E+13
-269.6180	68220.	0.00				
14.2000	0.01612	7423482.	-19942.	-1.66E-04	0.00	1.43E+13
-265.0912	70034.	0.00				
14.5550	0.01542	7336180.	-21061.	-1.64E-04	0.00	1.43E+13
-260.1175	71849.	0.00				
14.9100	0.01473	7244156.	-22157.	-1.62E-04	0.00	1.43E+13
-254.7070	73664.	0.00				
15.2650	0.01405	7147510.	-23230.	-1.59E-04	0.00	1.43E+13
-248.8697	75479.	0.00				
15.6200	0.01337	7046346.	-24277.	-1.57E-04	0.00	1.43E+13
-242.6150	77293.	0.00				
15.9750	0.01271	6940779.	-25296.	-1.55E-04	0.00	1.43E+13
-235.9521	79108.	0.00				
16.3300	0.01205	6830930.	-26286.	-1.53E-04	0.00	1.43E+13
-228.8901	80923.	0.00				
16.6850	0.01140	6716925.	-27246.	-1.51E-04	0.00	1.43E+13
-221.4373	82738.	0.00				
17.0400	0.01076	6598902.	-28172.	-1.49E-04	0.00	1.43E+13
-213.6022	84552.	0.00				
17.3950	0.01013	6477001.	-29065.	-1.47E-04	0.00	1.43E+13
-205.3925	86367.	0.00				
17.7500	0.00951	6351372.	-29921.	-1.45E-04	0.00	1.43E+13
-196.8157	88182.	0.00				
18.1050	0.00889	6222171.	-30741.	-1.43E-04	0.00	1.43E+13
-187.8791	89997.	0.00				
18.4600	0.00829	6089560.	-31521.	-1.42E-04	0.00	1.43E+13
-178.5893	91812.	0.00				
18.8150	0.00769	5953707.	-32513.	-1.40E-04	0.00	1.43E+13
-287.2196	159165.	0.00				
19.1700	0.00710	5812642.	-33701.	-1.38E-04	0.00	1.43E+13
-270.2583	162250.	0.00				
19.5250	0.00651	5666671.	-34815.	-1.36E-04	0.00	1.43E+13
-252.7273	165335.	0.00				
19.8800	0.00593	5516113.	-35853.	-1.35E-04	0.00	1.43E+13
-234.6352	168420.	0.00				
20.2350	0.00536	5361296.	-36813.	-1.33E-04	0.00	1.43E+13
-215.9899	171505.	0.00				
20.5900	0.00480	5202559.	-37692.	-1.31E-04	0.00	1.43E+13
-196.7987	174590.	0.00				

20.9450	0.00425	5040251.	-38488.	-1.30E-04	0.00	1.43E+13
-177.0678	177675.	0.00				
21.3000	0.00370	4874728.	-39199.	-1.28E-04	0.00	1.43E+13
-156.8030	180760.	0.00				
21.6550	0.00315	4706359.	-39823.	-1.27E-04	0.00	1.43E+13
-136.0088	183845.	0.00				
22.0100	0.00261	4535522.	-40357.	-1.26E-04	0.00	1.43E+13
-114.6895	186931.	0.00				
22.3650	0.00208	4362603.	-40799.	-1.24E-04	0.00	1.43E+13
-92.8482	190016.	0.00				
22.7200	0.00156	4187998.	-41147.	-1.23E-04	0.00	1.43E+13
-70.4875	193101.	0.00				
23.0750	0.00103	4012114.	-41399.	-1.22E-04	0.00	1.43E+13
-47.6093	196186.	0.00				
23.4300	5.18E-04	3835365.	-41552.	-1.21E-04	0.00	1.43E+13
-24.2146	199271.	0.00				
23.7850	6.40E-06	3658177.	-41604.	-1.19E-04	0.00	1.43E+13
-0.3038	202356.	0.00				
24.1400	-5.00E-04	3480982.	-41553.	-1.18E-04	0.00	1.43E+13
24.1232	205441.	0.00				
24.4950	-0.00100	3304225.	-41397.	-1.17E-04	0.00	1.43E+13
49.0676	208526.	0.00				
24.8500	-0.00150	3128359.	-41134.	-1.16E-04	0.00	1.43E+13
74.5307	211611.	0.00				
25.2050	-0.00199	2953844.	-40761.	-1.16E-04	0.00	1.43E+13
100.5147	214696.	0.00				
25.5600	-0.00248	2781153.	-40276.	-1.15E-04	0.00	1.43E+13
127.0224	217781.	0.00				
25.9150	-0.00297	2610767.	-39678.	-1.14E-04	0.00	1.43E+13
154.0570	220867.	0.00				
26.2700	-0.00345	2443177.	-38963.	-1.13E-04	0.00	1.43E+13
181.6221	223952.	0.00				
26.6250	-0.00394	2278882.	-38129.	-1.12E-04	0.00	1.43E+13
209.7219	227037.	0.00				
26.9800	-0.00441	2118393.	-37175.	-1.12E-04	0.00	1.43E+13
238.3609	230122.	0.00				
27.3350	-0.00489	1962230.	-36104.	-1.11E-04	0.00	1.43E+13
264.2786	230361.	0.00				
27.6900	-0.00536	1810862.	-34980.	-1.11E-04	0.00	1.43E+13
263.5459	209481.	0.00				
28.0450	-0.00583	1664277.	-33862.	-1.10E-04	0.00	1.43E+13
261.5283	191120.	0.00				
28.4000	-0.00630	1522438.	-32728.	-1.10E-04	0.00	1.43E+13
270.8220	183209.	0.00				
28.7550	-0.00676	1385513.	-31541.	-1.09E-04	0.00	1.43E+13
286.3347	180360.	0.00				
29.1100	-0.00723	1253785.	-30296.	-1.09E-04	0.00	1.43E+13
298.2266	175787.	0.00				

```
   29.4650   -0.00769   1127468.    -29001.  -1.08E-04       0.00   1.43E+13
309.8656    171662.       0.00
   29.8200   -0.00815   1006775.    -27656.  -1.08E-04       0.00   1.43E+13
321.2760    167915.       0.00
   30.1750   -0.00861    891912.    -26264.  -1.08E-04       0.00   1.43E+13
332.4783    164490.       0.00
   30.5300   -0.00907    783082.    -24824.  -1.08E-04       0.00   1.43E+13
343.4899    161344.       0.00
   30.8850   -0.00953    680486.    -23338.  -1.07E-04       0.00   1.43E+13
354.3255    158438.       0.00
   31.2400   -0.00998    584321.    -21805.  -1.07E-04       0.00   1.43E+13
364.9976    155742.       0.00
   31.5950   -0.01044    494778.    -20228.  -1.07E-04       0.00   1.43E+13
375.5170    153231.       0.00
   31.9500   -0.01090    412051.    -18606.  -1.07E-04       0.00   1.43E+13
385.8931    150883.       0.00
   32.3050   -0.01135    336327.    -16941.  -1.07E-04       0.00   1.43E+13
396.1335    148679.       0.00
   32.6600   -0.01180    267791.    -15231.  -1.07E-04       0.00   1.43E+13
406.2453    146603.       0.00
   33.0150   -0.01226    206628.    -13480.  -1.07E-04       0.00   1.43E+13
416.2341    144643.       0.00
   33.3700   -0.01271    153018.    -11685.  -1.07E-04       0.00   1.43E+13
426.1048    142787.       0.00
   33.7250   -0.01317    107141.     -9849.  -1.06E-04       0.00   1.43E+13
435.8617    141023.       0.00
   34.0800   -0.01362     69174.     -7972.  -1.06E-04       0.00   1.43E+13
445.5081    139344.       0.00
   34.4350   -0.01407     39292.     -6054.  -1.06E-04       0.00   1.43E+13
455.0470    137742.       0.00
   34.7900   -0.01453     17668.     -4095.  -1.06E-04       0.00   1.43E+13
464.4804    136209.       0.00
   35.1450   -0.01498      4473.     -2082.  -1.06E-04       0.00   1.43E+13
480.6063    136672.       0.00
   35.5000   -0.01543       0.00       0.00  -1.06E-04       0.00   1.43E+13
496.9957     68591.       0.00
```

* This analysis computed pile response using nonlinear moment-curvature relationships. Values of total stress due to combined axial and bending stresses are computed only for elastic sections only and do not equal the actual stresses in concrete and steel. Stresses in concrete and steel may be interpolated from the output for nonlinear bending properties relative to the magnitude of bending moment developed in the pile.

Output Summary for Load Case No. 3:

Pile-head deflection = 0.05245073 inches

Computed slope at pile head = -0.00026006 radians
Maximum bending moment = 8131556. inch-lbs
Maximum shear force = -41604. lbs
Depth of maximum bending moment = 8.16500000 feet below pile head
Depth of maximum shear force = 23.78500000 feet below pile head
Number of iterations = 8
Number of zero deflection points = 1

Summary of Pile-head Responses for Conventional Analyses

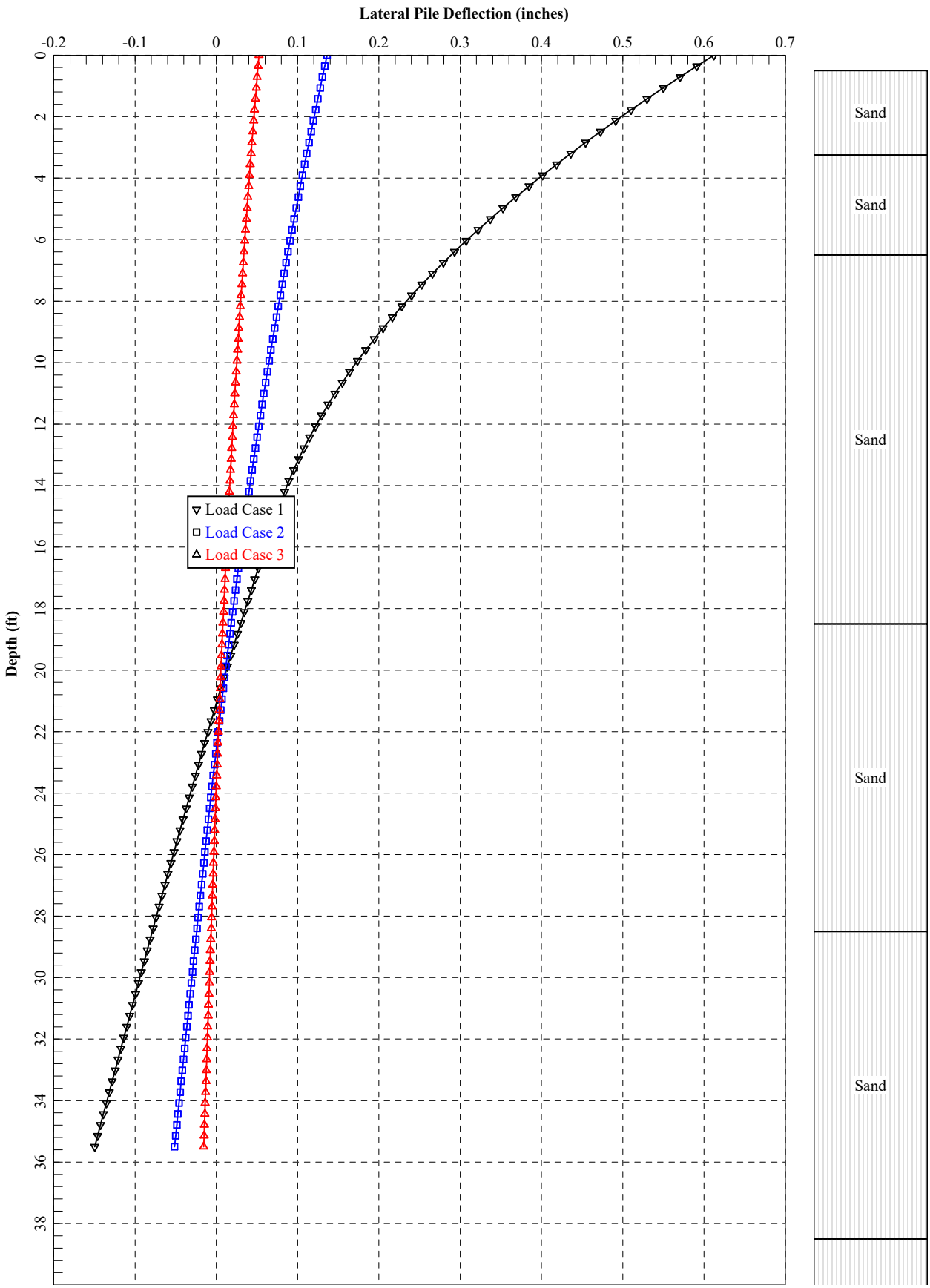
Definitions of Pile-head Loading Conditions:

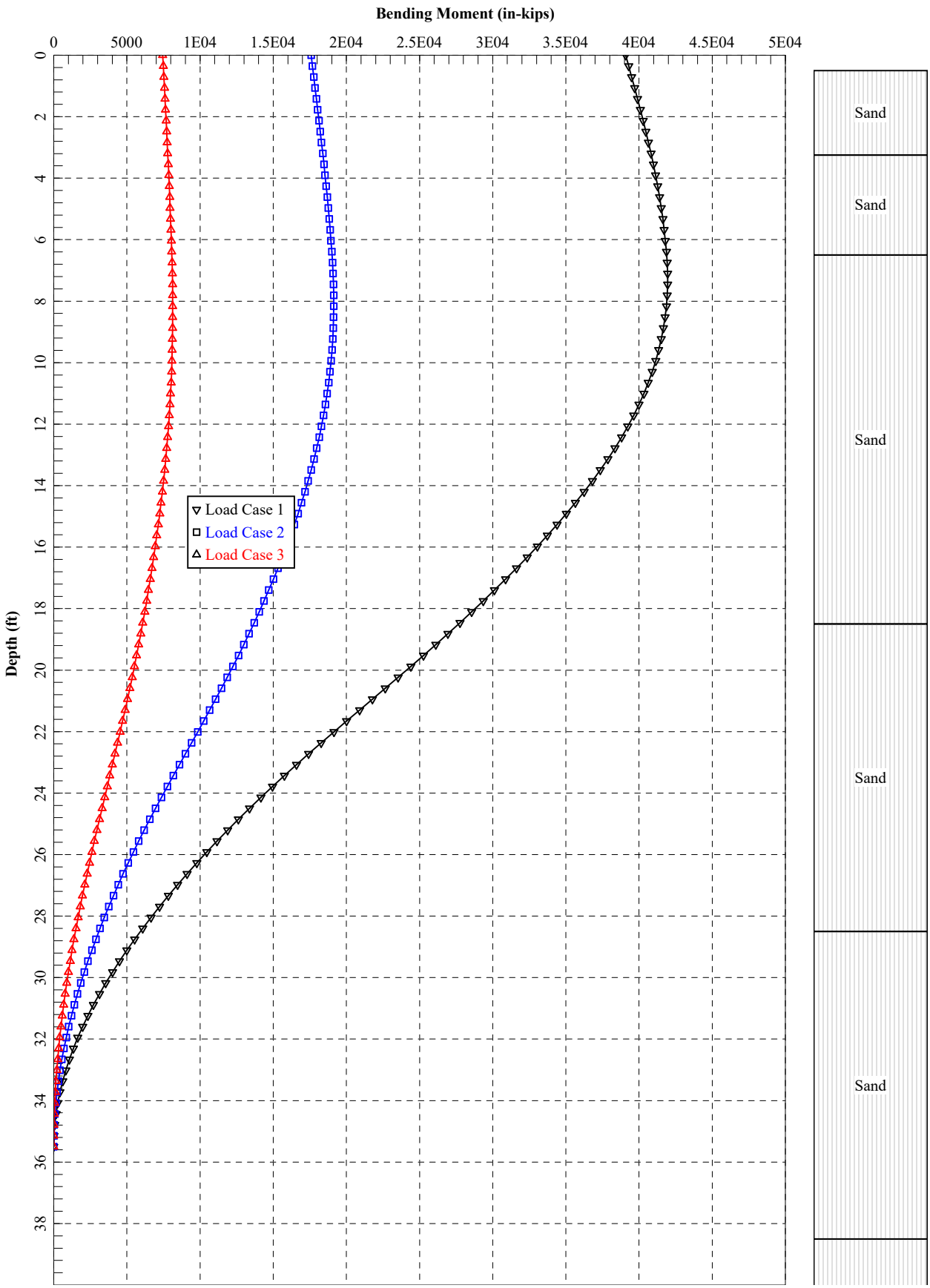
Load Type 1: Load 1 = Shear, V, lbs, and Load 2 = Moment, M, in-lbs
Load Type 2: Load 1 = Shear, V, lbs, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, lbs, and Load 2 = Rot. Stiffness, R, in-lbs/rad.
Load Type 4: Load 1 = Top Deflection, y, inches, and Load 2 = Moment, M, in-lbs
Load Type 5: Load 1 = Top Deflection, y, inches, and Load 2 = Slope, S, radians

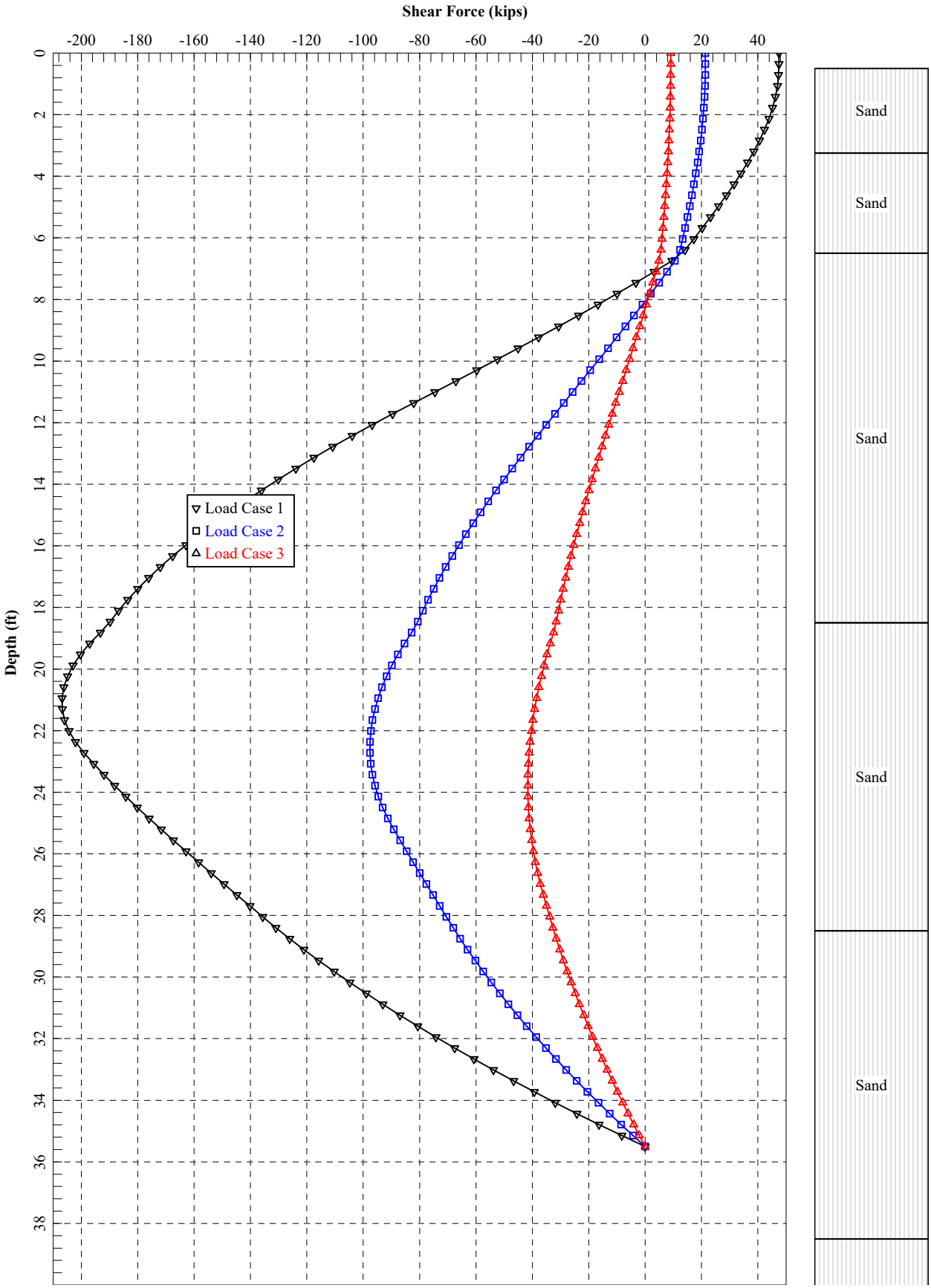
Load Case No.	Load Type	Load 1 Pile-head	Load 2 Type	Load 2 Pile-head	Axial Loading lbs	Pile-head Deflection inches	Pile-head Rotation radians	Max Shear in Pile lbs	Max Moment in Pile in-lbs
1	V, lb	47437.	M, in-lb	3.91E+07	66738.	0.6121	-0.00501	-206811.	4.20E+07
2	V, lb	21347.	M, in-lb	1.76E+07	41711.	0.1363	-6.75E-04	-97600.	1.91E+07
3	V, lb	9065.	M, in-lb	7452106.	80673.	0.05245	-2.60E-04	-41604.	8131556.

Maximum pile-head deflection = 0.6121371123 inches
Maximum pile-head rotation = -0.0050068379 radians = -0.286871 deg.

The analysis ended normally.


Lateral Pile Deflection (inches)
-0.2
-0.1
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
Depth (ft)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
Load Case 1
Load Case 2
Load Case 3
Sand
Sand
Sand
Sand
Sand


Bending Moment (in-kips)
0
5000
1E04
1.5E04
2E04
2.5E04
3E04
3.5E04
4E04
4.5E04
5E04
Depth (ft)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
Load Case 1
Load Case 2
Load Case 3
Sand
Sand
Sand
Sand
Sand


Shear Force (kips)
-200
-180
-160
-140
-120
-100
-80
-60
-40
-20
0
20
40
Depth (ft)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
Load Case 1
Load Case 2
Load Case 3
Sand
Sand
Sand
Sand
Sand

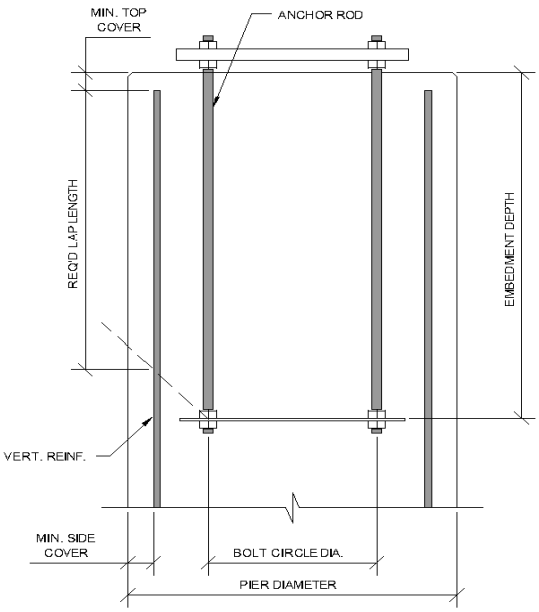
JOB NO.: U0142-705-181

PROJECT: FT. PIERCE ORANGE AVE

Anchorage Embedment Design

Vertical Bar Size:	#8	
Conc. Comp. Strength:	4000	psi
Pier Diameter:	7.5	ft
Pier Depth:	6	ft
Top of Pier Elevation:	6	inches
Concrete Volume	10.6	yards
Side Conc. Cover:	4	inches
Top Conc. Cover:	3	inches
Bolt Circle Dia.:	68	inches
Horizontal Tie Size:	#4	
# Anchor Rods:	8	
Anchor Rod Dia:	2.25	inches

ψ_t (bar loc. factor):	1.0	ACI 12.2.4a
ψ_e (epoxy coating factor):	1.0	ACI 12.2.4b
ψ_s (bar size factor):	1.0	ACI 12.2.4.c
λ (concrete type factor):	1.0	ACI 12.2.4.d
Bar Diameter:	1.0	in
Horiz. Tie Diameter:	0.5	in
Min.Clr Dist. Btwn Anchor & Vert:	4.4	in
Req'd Lap Length:	37.0	in ACI 12.2.2
Min. Required Embedment Depth:	**46.0**	**in**



Required Lap Length + Max distance between anchor and rod + 0.5*Bar diameter + 0.5*Anchor diameter + Top cover

Transverse Reinforcement Design

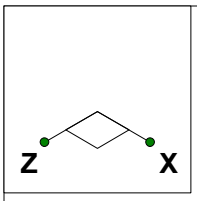
(see IBC Sections 1810.3.9.4.1 and 1810.3.9.4.2)

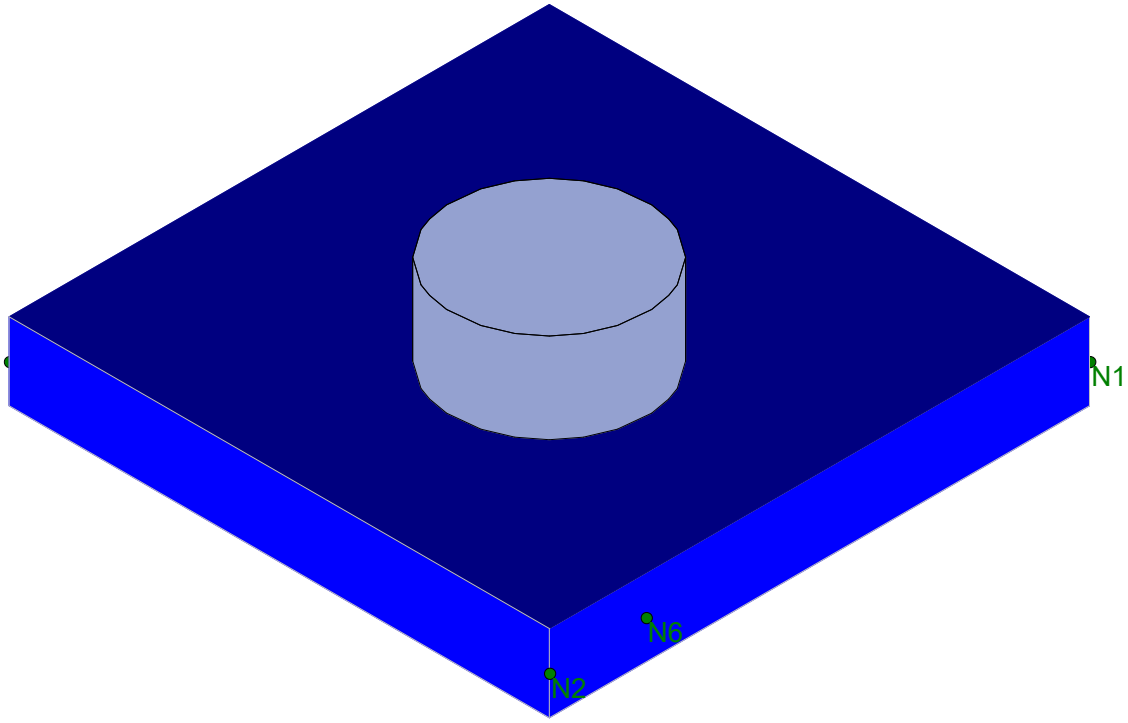
Seismic Design Category:	A
Site Class:	D

Type of Transverse Reinforcement:	Spiral	
Transverse f_{yt}:	60	ksi
Seismic Hooks Required?	No	
Tie Size OK?	Yes	

Tie Spacing:	6	in

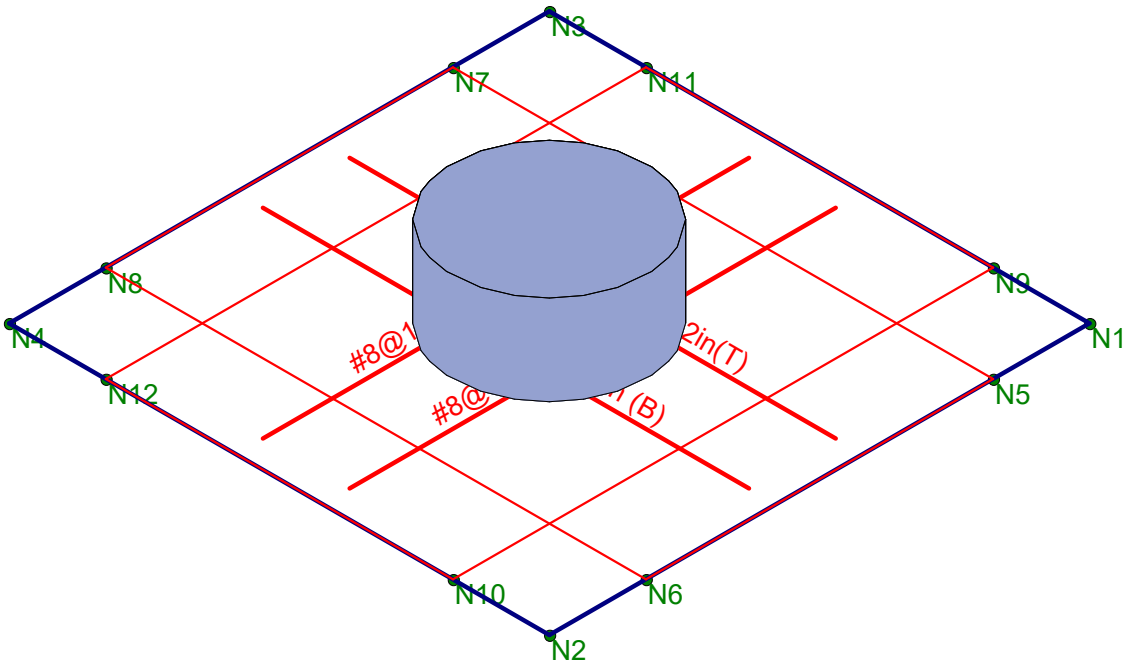
Total Pier Length	6.5	ft





Results for LC 2, D

Vector Structural Engineeri...	Ft. Pierce Orave Ave	SK - 1
dfoulger		Sept 13, 2018 at 3:03 PM
U0142-705-181		Ft. Pierce Orange Ave BP.rt3



Results for LC 2, D

Vector Structural Engineeri...		SK - 2
dfoulger	Ft. Pierce Orave Ave	Sept 13, 2018 at 3:03 PM
U0142-705-181		Ft. Pierce Orange Ave BP.rt3

(Global) Model Settings

Display Sections for Member Calcs	5
Max Internal Sections for Member Calcs	100
Mesh Size (in)	12
Max Iterations	10
Merge Tolerance (in)	.12
Solver	Sparse Accelerated
Coefficient of Friction	.25
No. of Shear Regions	4
Shear Region Spacing Increment (in)	4
Min 1 Bar Dia Spacing for Beams?	No
Optimize footings for OTM / Sliding?	No
Parme Beta Factor	.65
Pile Safety Factor	3
Concrete Stress Block	Rectangular
Concrete Rebar Set	ASTM A615
Concrete Code	ACI 318-14
HR Steel Pile Code	AISC 3rd: LRFD
Wood Pile Code	None

Concrete Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (\1E...	Density[k/ft...	f'c[ksi]	Lambda	Flex Steel[...	Shear Stee...
1	Conc3000NW	3156	1372	.15	.6	.145	3	1	60	60
2	Conc3500NW	3409	1482	.15	.6	.145	3.5	1	60	60
3	Conc4000NW	3644	1584	.15	.6	.145	4	1	60	60
4	Conc3000LW	2085	907	.15	.6	.11	3	.75	60	60
5	Conc3500LW	2252	979	.15	.6	.11	3.5	.75	60	60
6	Conc4000LW	2408	1047	.15	.6	.11	4	.75	60	60

General Design Parameters

	Label	Max Bending Chk	Max Shear Chk	Top Cover[in]	Bottom Cover[in]
1	Typical	.8	.8	3	3

Slab Rebar Parameters

	Label	Top Bar	Bottom Bar	Max Top Bar S..	Min Top Bar S...	Max Bot Bar S...	Min Bot Bar S...	Spacing In...	Rebar Options
1	Typical	#8	#8	12	6	12	6	1	Force Top and Bottom

Pedestal/Pile Rebar Parameters

	Label	Longitudinal Bar	Shear Tie	Bar Cover[in]
1	Typical	#8	#4	3

Soil Definitions

	Label	Subgrade Modulus[k/ft^3]	Allowable Bearing[ksf]	Depth Properties	Default?
1	Default	100	3.69	None	Yes

Point Loads and Moments (Cat 1 : DL)

	Label	Direction	Magnitude[k,k-ft]
1	R3D_N22	Y	-15.242
2	R3D_N22	Y	33.369

Point Loads and Moments (Cat 16 : OL1)

Label	Direction	Magnitude[k,k-ft]

Point Loads and Moments (Cat 16 : OL1) (Continued)

	Label	Direction	Magnitude[k,k-ft]
1	R3D_N22	Z	-28.462
2	R3D_N22	MX	-1932.74

Point Loads and Moments (Cat 17 : OL2)

	Label	Direction	Magnitude[k,k-ft]
1	R3D_N22	X	14.231
2	R3D_N22	Z	-24.649
3	R3D_N22	MX	-1673.803
4	R3D_N22	MZ	-966.371

Point Loads and Moments (Cat 18 : OL3)

	Label	Direction	Magnitude[k,k-ft]
1	R3D_N22	X	20.126
2	R3D_N22	Z	-20.126
3	R3D_N22	MX	-1366.653
4	R3D_N22	MZ	-1366.653

Point Loads and Moments (Cat 19 : OL4)

	Label	Direction	Magnitude[k,k-ft]
1	R3D_N22	X	24.649
2	R3D_N22	Z	-14.231
3	R3D_N22	MX	-966.371
4	R3D_N22	MZ	-1673.803

Point Loads and Moments (Cat 20 : OL5)

	Label	Direction	Magnitude[k,k-ft]
1	R3D_N22	X	28.462
2	R3D_N22	MZ	-1932.74

Point Loads and Moments (Cat 21 : OL6)

	Label	Direction	Magnitude[k,k-ft]
1	R3D_N22	Z	28.462
2	R3D_N22	MX	1932.74

Point Loads and Moments (Cat 22 : OL7)

	Label	Direction	Magnitude[k,k-ft]
1	R3D_N22	X	-28.462
2	R3D_N22	MZ	1932.74

Area Loads (Cat 1 : DL)

	Label	Base Mag[ksf]	Peak Mag[ksf]
1	AL1	.345	.345

Slabs

	Label	Thickness [in]	Material	Local Axis Angle [d...	Analysis Offset [in]	Passive Pressure [k...	Soil Overb...
1	S1	36	Conc4000NW	0	0	0	0

Load Combinations

	Label	So..	Se..	A...	SF	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...
1	Service																								
2	D	Yes	Yes		1....	DL	1																		
3	D+0.6(0...	Yes	Yes		1....	DL	1	OL1	.6																

Load Combinations (Continued)

	Label	So..	Se..	A...	SF	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...	Cat...	Fac...
4	0.6D+0.6..	Yes	Yes		1....	DL	.6	OL1	.6																
5	D+0.6(30..	Yes	Yes		1....	DL	1	OL2	.6																
6	0.6D+0.6..	Yes	Yes		1....	DL	.6	OL2	.6																
7	D+0.6(45..	Yes	Yes		1....	DL	1	OL3	.6																
8	0.6D+0.6..	Yes	Yes		1....	DL	.6	OL3	.6																
9	D+0.6(60..	Yes	Yes		1....	DL	1	OL4	.6																
10	0.6D+0.6..	Yes	Yes		1....	DL	.6	OL4	.6																
11	D+0.6(90..	Yes	Yes		1....	DL	1	OL5	.6																
12	0.6D+0.6..	Yes	Yes		1....	DL	.6	OL5	.6																
13	D+0.6(18..	Yes	Yes		1....	DL	1	OL6	.6																
14	0.6D+0.6..	Yes	Yes		1....	DL	.6	OL6	.6																
15	D+0.6(27..	Yes	Yes		1....	DL	1	OL7	.6																
16	0.6D+0.6..	Yes	Yes		1....	DL	.6	OL7	.6																
17																									
18	Strength																								
19	1.4D	Yes				DL	1.4																		
20	1.2D+1.0..	Yes				DL	1.2	OL1	1																
21	0.9D+1.0..	Yes				DL	.9	OL1	1																
22	1.2D+1.0..	Yes				DL	1.2	OL2	1																
23	0.9D+1.0..	Yes				DL	.9	OL2	1																
24	1.2D+1.0..	Yes				DL	1.2	OL3	1																
25	0.9D+1.0..	Yes				DL	.9	OL3	1																
26	1.2D+1.0..	Yes				DL	1.2	OL4	1																
27	0.9D+1.0..	Yes				DL	.9	OL4	1																
28	1.2D+1.0..	Yes				DL	1.2	OL5	1																
29	0.9D+1.0..	Yes				DL	.9	OL5	1																
30	1.2D+1.0..	Yes				DL	1.2	OL6	1																
31	0.9D+1.0..	Yes				DL	.9	OL6	1																
32	1.2D+1.0..	Yes				DL	1.2	OL7	1																
33	0.9D+1.0..	Yes				DL	.9	OL7	1																

Design Strips

	Label	Rebar Angle from Pl...	No. of Design Cuts	Design Rule
1	DS1	0	50	Typical
2	DS2	90	50	Typical

Pedestals/Posts

	Label	Type	Shape	Material	Design Rules	Angle(deg)	Height[in]	Pedestal Layout	Shear Layout
1	R3D_N22	Pedestal	CRND90	Conc4000NW	Typical	0	42	Use Design Rule	Use Design Rule

Strip Reinforcing

	Label	UC Top	LC	Top Bars	Governin...	UC Bot	LC	Bot Bars/...	Governin...	UC Shear	LC	Governin...
1	DS1	.52	20	#8@12in	DS1-X26	.685	31	#8@12in	DS1-X26	.343	30	DS1-X27
2	DS2	.532	32	#8@12in	DS2-X26	.697	29	#8@12in	DS2-X26	.345	28	DS2-X26

Pedestals/Posts Design Values

	Label	UC	Gov LC	Shear UC	Gov LC	Dir	Phi Used	Vertical Reinf	Shear Reinf
1	R3D_N22	.354	22	.034	28	x	.9	42#8	#4@16 in

Pedestals/Posts Punching Shear Values

	Label	UC	Gov LC	Location	Vuy[k]	Muz[k-ft]	Mux[k-ft]	Total Stress[...	Phi*Vny[ksi]
1	R3D_N22	.17	25	INTERIOR	33.287	-1467.281	-1467.281	.032	.19

Slab Overturning Safety Factors

	LC	Slab	Angle[deg]	Mo-xx[k-ft]	Ms-xx[k-ft]	Mo-zz[k-ft]	Ms-zz[k-ft]	Ms-xx/Mo-xx	Ms-zz/Mo-zz
1	2	S1	0	0	4037.54	0	4037.54	9.999+	9.999+
2	3	S1	0	1270.646	4037.54	0	4037.54	3.178	9.999+
3	4	S1	0	1270.646	2422.524	0	2422.524	1.907	9.999+
4	5	S1	0	1100.412	4037.54	635.323	4037.54	3.669	6.355
5	6	S1	0	1100.412	2422.524	635.323	2422.524	2.201	3.813
6	7	S1	0	898.482	4037.54	898.482	4037.54	4.494	4.494
7	8	S1	0	898.482	2422.524	898.482	2422.524	2.696	2.696
8	9	S1	0	635.323	4037.54	1100.412	4037.54	6.355	3.669
9	10	S1	0	635.323	2422.524	1100.412	2422.524	3.813	2.201
10	11	S1	0	0	4037.54	1270.646	4037.54	9.999+	3.178
11	12	S1	0	0	2422.524	1270.646	2422.524	9.999+	1.907
12	13	S1	0	1270.646	4037.54	0	4037.54	3.178	9.999+
13	14	S1	0	1270.646	2422.524	0	2422.524	1.907	9.999+
14	15	S1	0	0	4037.54	1270.646	4037.54	9.999+	3.178
15	16	S1	0	0	2422.524	1270.646	2422.524	9.999+	1.907

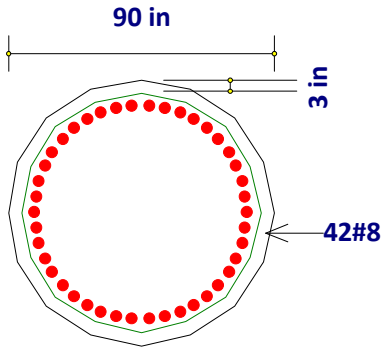
Slab Sliding Safety Factors

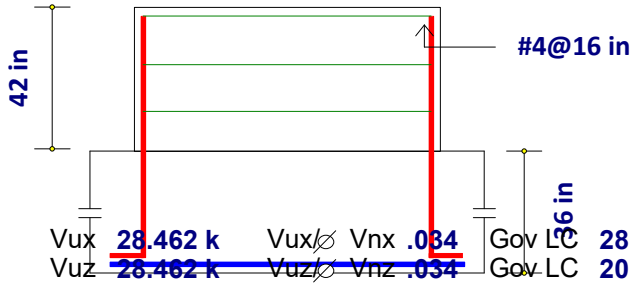
	LC	Slab	Angle[deg]	Va-xx[k]	Vr-xx[k]	Va-zz[k]	Vr-zz[k]	SR-xx	SR-zz
1	2	S1	0	0	96.132	0	96.132	9.999+	9.999+
2	3	S1	0	0	96.132	17.077	96.132	9.999+	5.629
3	4	S1	0	0	57.679	17.077	57.679	9.999+	3.378
4	5	S1	0	8.539	96.132	14.789	96.132	9.999+	6.5
5	6	S1	0	8.539	57.679	14.789	57.679	6.755	3.9
6	7	S1	0	12.075	96.132	12.075	96.132	7.961	7.961
7	8	S1	0	12.075	57.679	12.075	57.679	4.777	4.777
8	9	S1	0	14.789	96.132	8.539	96.132	6.5	9.999+
9	10	S1	0	14.789	57.679	8.539	57.679	3.9	6.755
10	11	S1	0	17.077	96.132	0	96.132	5.629	9.999+
11	12	S1	0	17.077	57.679	0	57.679	3.378	9.999+
12	13	S1	0	0	96.132	17.077	96.132	9.999+	5.629
13	14	S1	0	0	57.679	17.077	57.679	9.999+	3.378
14	15	S1	0	17.077	96.132	0	96.132	5.629	9.999+
15	16	S1	0	17.077	57.679	0	57.679	3.378	9.999+

Envelope Slab Soil Pressures

	Label	UC	LC	Soil Pressure[ksf]	Allowable Bearing[ksf]	Point
1	S1	.534	7	1.97	3.69	N1

Pedestal:	**R3D_N22**				
Shape:	**CRND90**	Tension Bar Fy:	**60 ksi**	Stress Block:	**Rectangular**
Material:	**Conc4000NW**	Shear Bar Fy:	**60 ksi**	Design Rule:	**Typical**
Height:	**42 in**	Pedestal Cover:	**3 in**	Design Code:	**ACI 318-14**
Location:	**(0 , 0) ft**	Rebar Set:	**ASTM A615**		





Design Results

Shear Check Results (Envelope)

Along xx Vcx	**979.041 k**	Vsx	**126.645 k**	Vux	**28.462 k**	Vux/∅ Vnx **.034**	Gov LC **28**
Along zz Vcz	**979.041 k**	Vsz	**126.645 k**	Vuz	**28.462 k**	Vuz/∅ Vnz **.034**	Gov LC **20**
Shear Ties	**#4 @ 16 in**						

Bending Check Results

Unity Check	**.354**	Phi	**.9**	Parme Beta	**.65**
Pu	**0 k**	Mux	**0 k-ft**	Muz	**-2032.358 k-ft**
Pn	**0 k**	Mnx	**NA**	Mnz	**6377.51 k-ft**
Gov LC	**22**	Mnox	**NA**	Mnoz	**NA**
Long. Bars	**42 #8**	% Steel	**.519**		

Compression Development Length for Longitudinal Bars

Lrequired	**18.974 in**	Lprovided	**30 in**	Lreq./Lpro.	**.632**

Punching Shear Check Results

Punching Shear Values

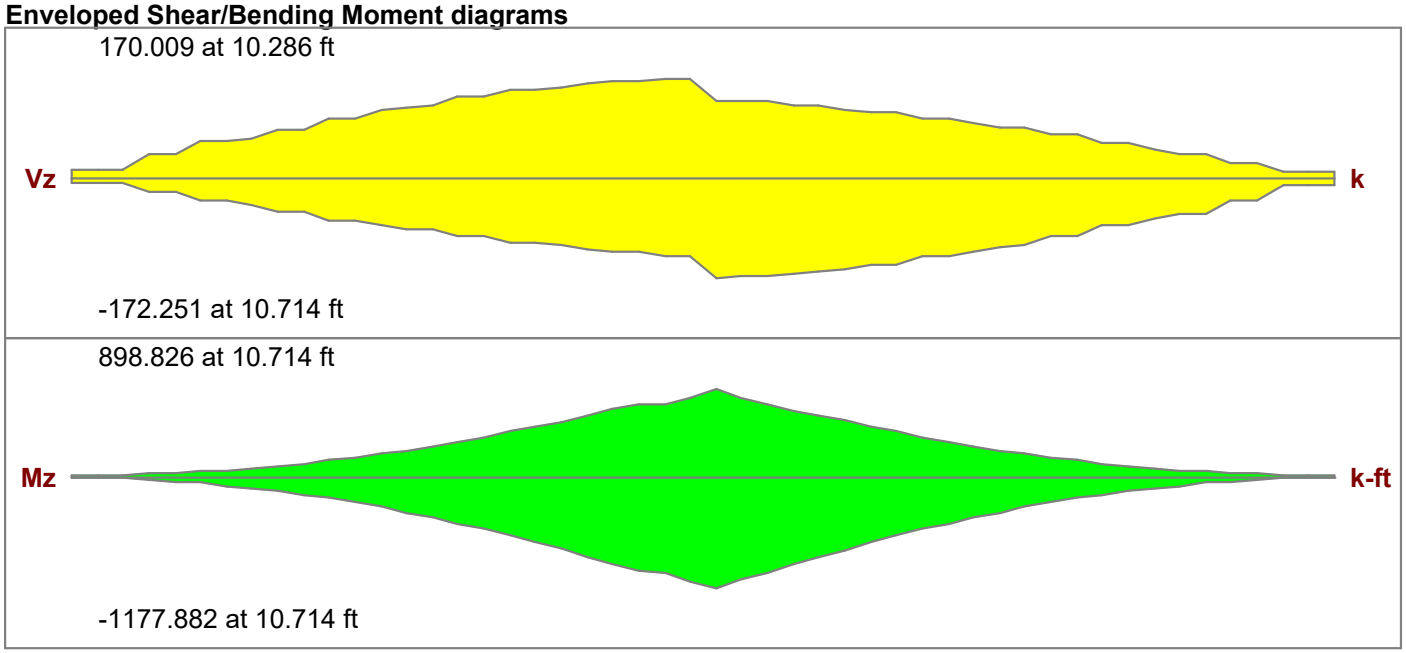
Unity Check	**.17**	Vuy	**33.287 k**	Total Stress	**.032 ksi**
Location	**INTERIOR**	Mux	**-1467.281 k-ft**	∅vny	**.19 ksi**
Gov LC	**25**	Muz	**1467.281 k-ft**		

Punching Shear Geometries

Effective depth	**32.5 in**				
L1 along zz	**103.186 in**	Polar Moment Ixx	**2.439e+7 in^4**	Gamma xx	**.4**
L2 along xx	**103.186 in**	Polar Moment Izz	**2.439e+7 in^4**	Gamma zz	**.4**

Strip:	DS2	Max Top bar Spac.:	12 in	Stress Block:	Rectangular
Material:	Conc4000NW	Min Top bar Spac.:	6 in	Rebar Orientation:	90
Strip Width:	162 in	Max Bot bar Spac.:	12 in	Rebar Spacing Inc:	1 in
Total Cuts:	50	Min Bot bar Spac.:	6 in	Design Rule:	Typical

Enveloped Shear/Bending Moment diagrams



ACI 318-14 Code Check

Top Bending Check	0.532	Bot Bending Check	0.697	1 Way Shear Check	0.345
Gov Mu Top	898.826 k-ft	Gov Mu Bot	-1177.882 k-ft	Gov Vu	172.251 k
phi*Mn Top	1688.95 k-ft	phi*Mn Bot	1688.95 k-ft	phi*Vn	499.482 k
Governing Cut	DS2-X26	Governing Cut	DS2-X26	Governing Cut	DS2-X26
Governing LC	32	Governing LC	29	Governing LC	28
Tension Bar Fy	60 ksi	Concrete Weight	.145 k/ft^3	Top Cover	3 in
Shear Bar Fy	60 ksi	λ	1	Bottom Cover	3 in
F'c	4 ksi	E_Concrete	3644 ksi		
Flex. Rebar Set	ASTM A615	Rho Bot Prvd	0.00224	Rho Top Prvd	0.00224
		Prvd Bot Bar Spac.	#8@12in	Prvd Top Bar Spac.	#8@12in

Bending Steel Reqd/Prvd, Units: in^2)

Cut Label	Top As Reqd	Top As Prvd	Bot As Reqd	Bot As Prvd	Rho Reqd(T/S)	Rho Reqd(Flex)	Rho Prvd(Gross)
DS2-X26	7.784	11.781	10.243	11.781	0.00180	0.00180	0.00404

⚠ This is a beta release of the new ATC Hazards by Location website. Please contact us with feedback.

Hazards by Location

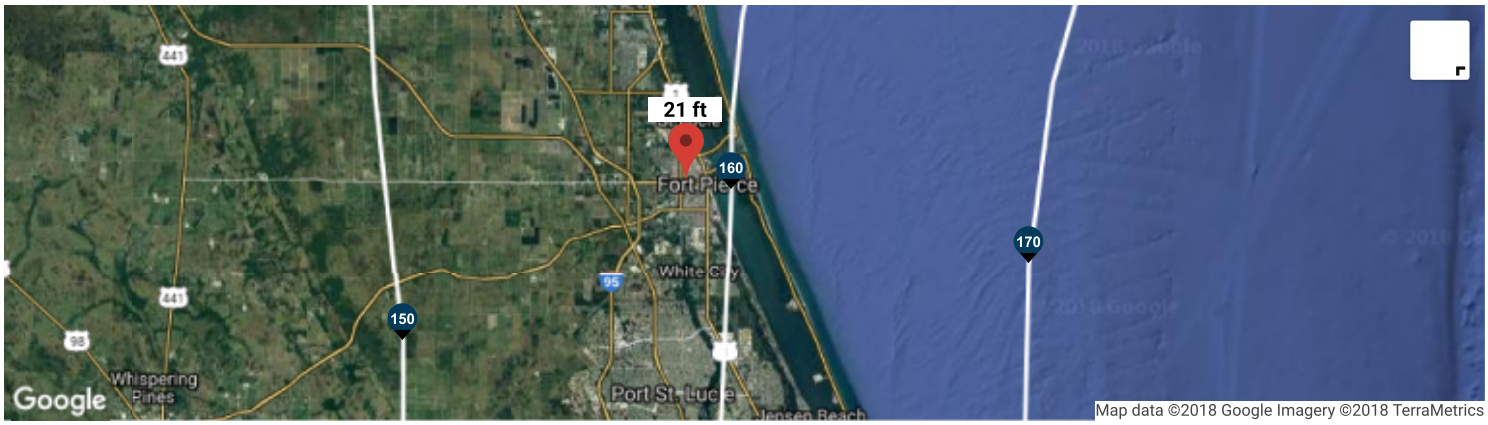
Search Information

Coordinates: 27.4475, -80.3455

Timestamp: 2018-09-10T23:38:46.258Z

Hazard Type: Wind

Map Results



Text Results

ASCE 7-16

MRI 10-Year ..... 88 mph

MRI 25-Year ..... 107 mph

MRI 50-Year ..... 119 mph

MRI 100-Year ..... ⚠ 131 mph

You are in a wind-borne debris region if you are also within 1 mile of the coastal mean high water line.

Risk Category I ..... ⚠ 147 mph

You are in a wind-borne debris region.

Risk Category II ..... ⚠ 159 mph

You are in a wind-borne debris region.

Risk Category III ..... ⚠ 170 mph

If the structure under consideration is a healthcare facility, you are in a wind-borne debris region. If other occupancy, use the Risk Category II basic wind speed contours to determine if you are in a wind-borne debris region.

Risk Category IV ..... ⚠ 182 mph

You are in a wind-borne debris region.

ASCE 7-10

MRI 10-Year ..... 88 mph

MRI 25-Year ..... 107 mph

MRI 50-Year ..... 119 mph

MRI 100-Year ⚠ 131 mph

You are in a wind-borne debris region if you are also within 1 mile of the coastal mean high water line.

Risk Category I ⚠ 147 mph

You are in a wind-borne debris region.

Risk Category II ⚠ 159 mph

You are in a wind-borne debris region.

Risk Category III-IV ⚠ 170 mph

If the structure under consideration is a healthcare facility, you are in a wind-borne debris region. If other occupancy, use the Risk Category II basic wind speed contours to determine if you are in a wind-borne debris region.

ASCE 7-05

ASCE 7-05 Wind Speed ⚠ 140 mph

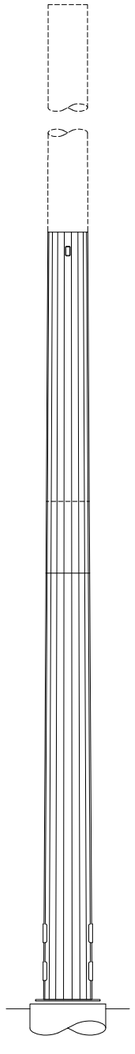
You are in a wind-borne debris region.

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are interpolated from data provided in ASCE 7 and rounded up to the nearest whole integer. Per ASCE 7, islands and coastal areas outside the last contour should use the last wind speed contour of the coastal area – in some cases, this website will extrapolate past the last wind speed contour and therefore, provide a wind speed that is slightly higher. NOTE: For queries near wind-borne debris region boundaries, the resulting determination is sensitive to rounding which may affect whether or not it is considered to be within a wind-borne debris region.

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3034-A ASHLEY PHOSPHATE RD.
NORTH CHARLESTON, SC 29418
P: (800)-755-0689 / F: (843)-207-0207
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PROJECT MANAGER:
CAROLINE WATSON ; (843)-574-9626

FINAL ENGINEERING

RG TOWERS
FT. PIERCE ORANGE AVE
BASE POLE
2006 ORANGE AVENUE
FT. PIERCE, FL 34950

STEALTH JOB #: RG18-01105W-05R1

RUSSELL N. EMERY LICENSE No 71060 STATE OF FLORIDA PROFESSIONAL ENGINEER

09/13/2018

DRAWING INDEX

T1	TITLE SHEET
N1-N2	NOTES & SPECIFICATIONS
S1	ELEVATION
S2-S3	DETAILS
S4	DRILLED PIER FOUNDATION
S5	MAT FOUNDATION

VECTOR ENGINEERS
651 W. GALENA PARK BLVD., SUITE 101
DRAPER, UT 84020
P: (801) 990-1775 F: (801) 990-1776
VECTOR PROJECT: U0142-705-181
FL FIRM LICENSE NUMBER: COA 26626

T1

REVISION 0

9/13/18

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DESIGN NOTES:

STRUCTURAL DESIGN IS BASED ON THE FLORIDA BUILDING CODE, 2017 EDITION (2015 IBC) & THE TIA-222-G STANDARD.

DESIGN LOADS:
WIND:
BASIC WIND SPEED: 159 MPH (3-SEC GUST) PER ASCE 7-10 STANDARD
IMPORTANCE FACTOR: 1.00
STRUCTURE CLASS: II
EXPOSURE: C
TOPOGRAPHIC CATEGORY: 1
CREST HEIGHT: 0 FT

ICE: NONE

ESTIMATED WEIGHT:
33.4 k (1.0 DEAD)

REACTIONS:

SHEAR, V = 28.4 k (1.0 WIND)
AXIAL, P = 40.0 k (1.2 DEAD)
MOMENT, M = 1,940 k-ft (1.0 WIND)

THE REACTIONS V & M LISTED ABOVE SHALL BE CONSIDERED TO ACT IN ANY HORIZONTAL DIRECTION.

DESIGN:

1. ENGINEERING AND DESIGN CALCULATIONS FOR STEALTH® POLE AND TOWER PRODUCTS ARE PREPARED IN ACCORDANCE WITH THE TIA-222-G. OTHER STRUCTURES ARE DESIGNED IN ACCORDANCE WITH APPLICABLE LOCAL OR NATIONAL STANDARDS AND PER CLIENT INPUT.

SPECIAL INSPECTIONS & STRUCTURAL OBSERVATION:

1. STEEL FABRICATION SHALL BE DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED AS REQUIRED BY THE BUILDING CODE TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.
2. NO FIELD WELDING SHALL BE PERMITTED.
3. THE FOLLOWING SPECIAL INSPECTIONS (WHERE APPLICABLE) SHALL BE REQUIRED PER CHAPTER 17 OF THE BUILDING CODE.
   - PERIODIC SPECIAL INSPECTION OF HIGH-STRENGTH BOLTING (WHEN APPLICABLE)
   - PERIODIC SPECIAL INSPECTION OF PLACEMENT OF REINFORCING STEEL
   - CONTINUOUS SPECIAL INSPECTION OF ANCHOR BOLTS PRIOR TO AND DURING CONCRETE PLACEMENT
   - CONTINUOUS SPECIAL INSPECTION OF CONCRETE PLACEMENT
   - CONTINUOUS SPECIAL INSPECTION OF DRILLING OPERATIONS FOR PIER FOUNDATIONS
   - CONTINUOUS SPECIAL INSPECTION TO VERIFY LOCATION, PLUMBNESS, DIAMETER, AND LENGTH OF PIER FOUNDATIONS
   - PERIODIC SPECIAL INSPECTION OF FORM WORK SHAPE, LOCATION & DIMENSIONS
   - PERIODIC SPECIAL INSPECTION OF SOILS PER CHAPTER 17 OF BUILDING CODE
4. SPECIAL INSPECTION IS NOT REQUIRED FOR WORK OF A MINOR NATURE OR AS WARRANTED BY CONDITIONS IN THE JURISDICTION AS APPROVED BY THE BUILDING OFFICIAL. THUS, SPECIAL INSPECTION ITEMS ABOVE MAY BE WAIVED AS DEEMED APPROPRIATE BY THE BUILDING OFFICIAL.
5. NO STRUCTURAL OBSERVATION IS REQUIRED.

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651 W. GALENA PARK BLVD., SUITE 101
DRAPER, UT 84020
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FL FIRM LICENSE NUMBER: COA 26626

GENERAL

1. THE TYPICAL NOTES SHALL APPLY FOR ALL CASES UNLESS OTHERWISE SPECIFICALLY DETAILED WITHIN THE DRAWINGS. SOME NOTES MAY NOT BE APPLICABLE IN PART OR IN WHOLE FOR EVERY PROJECT.
2. ANY ITEMS REFERENCED AS BEING ON "HOLD" ARE TO BE INCLUDED IN THE WORK AS SHOWN. HOWEVER, CONSTRUCTION OR FABRICATION IS NOT TO BEGIN UNTIL THE "HOLD" REFERENCE IS REMOVED.
3. DIMENSIONS CONTAINED WITHIN MUST BE FIELD VERIFIED AND CUSTOMER APPROVED PRIOR TO FABRICATION OF MATERIALS.
4. THE MODIFICATIONS DEPICTED IN THESE DRAWINGS ARE INTENDED TO PROVIDE STRUCTURAL SUPPORT FOR THE ADDITION OF THE ANTENNA SCREENING SYSTEMS OUTLINED WITHIN. THE EXISTING STRUCTURE OR BUILDING SHALL BE ANALYZED AND RETROFITTED AS REQUIRED, BY OTHERS, TO WITHSTAND THE LOADS IMPOSED BY THE NEW STEALTH® ENCLOSURE SHOWN ON THE DRAWINGS.
5. ANTENNA CONCEALMENT PRODUCTS SHALL BE INSTALLED BY A CONTRACTOR EXPERIENCED IN SIMILAR WORK. CARE SHALL BE TAKEN IN THE INSTALLATION OF ANY AND ALL MEMBERS IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS AND PROCEDURES. ALL APPLICABLE OSHA SAFETY GUIDELINES ARE TO BE FOLLOWED. STEALTH® IS NOT PROVIDING FIELD INSTALLATION SUPERVISION.
6. THESE DRAWINGS INDICATE THE MAJOR OPERATIONS TO BE PERFORMED, BUT DO NOT SHOW EVERY FIELD CONDITION THAT MAY BE ENCOUNTERED. THEREFORE, PRIOR TO BEGINNING OF WORK THE CONTRACTOR SHOULD SURVEY THE JOB SITE THOROUGHLY TO MINIMIZE FIELD PROBLEMS.
7. PROTECTION OF EXISTING STRUCTURES DURING THE COURSE OF THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
8. THE STRUCTURAL INTEGRITY OF THIS STRUCTURE IS DESIGNED TO BE ATTAINED IN ITS COMPLETED STATE. WHILE UNDER CONSTRUCTION ANY TEMPORARY BRACING OR SHORING WHICH MAY BE REQUIRED TO MAINTAIN STABILITY PRIOR TO COMPLETION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
9. THE PLANS AND DETAILS WITHIN DO NOT INCLUDE DETAILS OR DESIGN FOR DRAINAGE FROM OR WATERPROOFING OF EXTERIOR OR INTERIOR SURFACES OF THE EXISTING BUILDING OR STRUCTURE. THESE DETAILS MUST BE COMPLETED BY OTHERS.
10. CONTRACTOR TO SHIM BASEPLATE AS REQUIRED TO ENSURE LEVEL SURFACE.

MATERIAL NOTES:

1. 18-SIDED MONOPOLE SHAFT STEEL SHALL CONFORM w/ ASTM A572 GR. 65, U.N.O.
2. BASE PLATE STEEL SHALL CONFORM w/ ASTM A572, GR. 50, U.N.O.
3. REINFORCED ACCESS PORT STEEL SHALL CONFORM w/ ASTM A572 GR. 50 MIN., U.N.O.
4. ALL OTHER STRUCTURAL STEEL SHAPES & PLATES SHALL CONFORM TO ASTM A36, U.N.O.
5. ALL BOLTS FOR STEEL-TO-STEEL CONNECTIONS SHALL CONFORM TO ASTM F3125 GRADE A325 SPECIFICATIONS, U.N.O. A325N AND A325X ALLOWED.
6. ALL WELDING SHALL BE PEFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH THE LATEST VERSION OF THE AMERICAN WELDING SOCIETY (AWS) D1.1. ALL WELDING SHALL BE PERFORMED IN A SHOP APPROVED BY THE BUILDING OFFICIAL. STEEL WELDS SHALL BE BY E70XX LOW HYDROGEN ELECTRODES.
7. ALL STEEL SURFACES SHALL BE GALVANIZED IN ACCORDANCE w/ ASTM A123 OR F2329 STANDARDS.
8. ALL BOLTED CONNECTIONS SHALL BE TIGHTENED PER THE "TURN-OF-NUT" METHOD AS DEFINED BY AISC.

COAX NOTE:

ROUTING THE LARGE QUANTITY OF COAX CABLES THROUGH THE CONCEALMENT BULKHEADS IS POSSIBLE (WHEN LAID OUT ON PAPER), BUT WILL BE VERY DIFFICULT IN REAL WORLD FIELD CONDITIONS. WHILE THE CABLES MAY PHYSICALLY FIT THROUGH THE BASE FLANGE ON TOP OF THE MONOPOLE AND THE SUBSEQUENT STEEL BULKHEADS ABOVE, ROUTING THEM PAST THE ANTENNAS IS UNPREDICTABLE, DEPENDING ON THE ANTENNA MOUNTING HARDWARE EMPLOYED, COAX CONNECTOR TYPE(S) USED, COAX ROUTING, AND RELATIVE AZIMUTH DIRECTIONS OF THE ANTENNAS IN THE POLE. STEALTH® CAN NOT GUARANTEE THAT ALL OF THE COAX CAN BE ROUTED WITHOUT INTERFERENCE TO SOME OR ALL ANTENNAS. IT IS HIGHLY RECOMMENDED THAT THE INSTALLER MOCK UP THE COAX RUNS WITHIN THE CONCEALMENT AND DEVELOP A COAX ROUTING PLAN PRIOR TO INSTALLATION.

STEALTHSKIN PANELS

1. FASTENER HOLES IN STEALTHSKIN FOAM COMPOSITE PANELS ARE NOT FACTORY DRILLED AND MUST BE DRILLED IN THE FIELD.
2. PANEL FASTENERS TO BE SPACED 12" O.C. MAX. AND LOCATED 6" MAX. HORIZONTALLY FROM EACH EDGE AT TOP AND BOTTOM OF PANEL, UNLESS NOTED OTHERWISE. MAINTAIN 1 ½" MIN. EDGE DISTANCE FROM ALL EDGES. 4' WIDE PANELS REQUIRE (4) FASTENERS TOP AND BOTTOM. 5' WIDE PANELS REQUIRE (5) FASTENERS TOP AND BOTTOM.
3. WHEN FASTENER BOLT HEAD OR NUT BEARS DIRECTLY ON SURFACE OF STEALTHSKIN PANEL, TIGHTEN PANEL BOLTS ONLY ½ TURN PAST SNUG. APPLY THREAD LOCK COMPOUND TO THE THREADS OF METAL BOLTS. USE THIN BEAD OF EPOXY TO LOCK THE NUTS OF FRP BOLTS AND STEALTH® STAINLESS STEEL PANEL BOLTS. USE WASHER OR FLANGED HEAD BOLT, OR FASTENER WITH LARGE BEARING SURFACE.
4. PANELS WILL EXPAND AND CONTRACT DUE TO TEMPERATURE. WHEN INSTALLING PANELS IN COLD TEMPERATURES, EVENLY SPACE PANELS ALONG LENGTH OF SCREEN WALL WITH EQUAL GAPS BETWEEN PANELS TO ALLOW FOR EXPANSION DURING WARM TEMPERATURES.
5. ADJACENT FLAT PANELS ARE JOINED BY A VERTICAL FOAM SPLINE THAT IS INSERTED INTO GROOVES CUT INTO THE SIDE OF EACH PANEL. DO NOT LIFT PANELS BY GROOVES. PANELS MUST BE LIFTED WITH FORCE DIRECTED ONTO PANEL SURFACE.
6. ADJACENT RADIUS PANELS ARE JOINED BY A VERTICAL H-CHANNEL. INSERT PANELS INTO EACH SIDE OF H-CHANNEL.
7. RADIUS PANELS MUST BE EVENLY SPACED ALONG RADIUS SUPPORT. CONTRACTOR TO MEASURE LENGTH OF RADIUS SUPPORT AND DIVIDE BY THE NUMBER OF RADIUS PANELS TO DETERMINE PROPER SPACING. H-CHANNEL CONNECTORS ARE USED TO COVER THE GAP BETWEEN PANELS AND TO ALLOW FOR PANEL EXPANSION AND CONTRACTION.
8. SURFACES OF PANELS SHALL BE COATED WITH SUITABLE PAINT FOR UV PROTECTION. TOP EDGE OF PANEL MUST BE COVERED TO PREVENT WATER TRAVEL BETWEEN PANELS. USE SHERWIN WILLIAMS "COROTHANE II" OR PRE APPROVED EQUIVALENT.
9. EXPOSED TOP AND SIDE FOAM EDGES OF PANELS MUST BE COVERED OR COATED FOR UV PROTECTION. STEALTH® WILL PROVIDE PANEL EDGE CAPS (VERTICAL AND HORIZONTAL) TO BE FIELD APPLIED FOR THIS PURPOSE FOR MOST APPLICATIONS. HORIZONTAL AND VERTICAL PANEL EDGE CAPS TO BE SECURED TO THE EXPOSED EDGES OF THE PANELS WITH PROVIDED TEK SCREWS INSTALLED @ 12" MAXIMUM SPACING ON THE INSIDE FACE OF THE PANEL. IN RF SENSITIVE LOCATIONS, CONTRACTOR WILL APPLY (2) BEADS OF ADHESIVE TO EACH INSIDE CORNER OF THE EDGE CAP AND SECURE CAP TO PANEL WITH TAPE WHILE ADHESIVE CURES.
10. AT CORNER APPLICATIONS, VERTICAL PANEL EDGE CAPS ARE TO BE USED TO CAP BOTH EXPOSED EDGES (1 PER CUT EDGE OF PANELS). THESE EDGE CAPS ARE TO BE CUT 1" SHORTER THAN THE PANEL AND LEAVE 1" GAP AT THE TOP TO ALLOW ROOM FOR THE THE HORIZONTAL PANEL EDGE CAP AT THE TOP. CONTRACTOR TO APPLY (2) BEADS OF ADHESIVE TO EACH EDGE CAP (INSIDE CORNERS OF CAP), AND SECURE WITH TAPE AND/OR PROVIDED SCREWS (16 TOTAL PER CORNER) WHILE THE ADHESIVE CURES. IF CORNERS ARE IN NON-RF AREAS, EDGE CAP SCREWS CAN BE LEFT IN PLACE.
11. AT CORNER APPLICATIONS WITH SSV PANEL ONLY, CORNER CHANNELS ARE TO BE USED TO JOIN PANELS TOGETHER. BOTH ADJOINING PANELS WILL BE INSTERTED INTO THE CORNER CHANNEL AND SECURED USING PROVIDED NYLON PUSHPINS. THE PUSHPINS ARE TO BE PLACED ON THE INSIDE OF ONE OF THE PANELS ONLY @ 12" MAXIMUM SPACING.

DISCLAIMERS:

1. ALL STRUCTURAL COMPONENTS TO BE CONNECTED TOGETHER SHALL BE COMPLETELY FIT UP ON THE GROUND OR OTHERWISE VERIFIED FOR COMPATIBILITY PRIOR TO LIFTING ANY COMPONENT INTO PLACE. REPAIRS REQUIRED DUE TO FIT-UP OR CONNECTION COMPATIBILITY PROBLEMS AFTER PARTIAL ERECTION ARE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.
2. ALTHOUGH RARE, EXCESSIVE DEFLECTION SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN SLIM LINE OR MONOPOLE STRUCTURES AT LOW WIND SPEEDS. BECAUSE THE PHENOMENON IS INFLUENCED BY MANY INTERACTING VARIABLES, MOVEMENT AND OSCILLATIONS ARE GENERALLY UNPREDICTABLE. THE TOWER OWNER MUST PERIODICALLY OBSERVE THE STRUCTURE FOR EXCESSIVE DEFLECTION AND ANY RESULTING STRUCTURAL DAMAGE OR BOLT LOOSENING. IN THE EVENT OF EXCESSIVE MOVEMENT, VECTOR STRUCTURAL ENGINEERS MUST BE NOTIFIED IMMEDIATELY. MODIFICATIONS TO THE STRUCTURE MAY BE REQUIRED AT THE OWNER'S EXPENSE. THE CHANGES MAY ALTER THE AESTHETIC APPEARANCE OF THE STRUCTURE.

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NORTH CHARLESTON, SC 29418
P: (800)-755-0689 F: (843)-207-0207
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RUSSELL N. EMERY
LICENSE
No 71060
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

09/13/2018

DRAWING NOT TO SCALE. UNLESS SPECIFIED OTHERWISE DIMENSIONS SHOWN ARE IN INCHES
TOLERANCES
DECIMALS X ± 1/16" .XXX ± 0.01"
ANGULAR X ± 0.5°

NOTES & SPECIFICATIONS

RG TOWERS
FT. PIERCE ORANGE AVE
BASE POLE
2006 ORANGE AVENUE
FT. PIERCE, FL 34950

JOB #: RG18-01105W-05R1
DRAWN: LSB-VSE
DESIGNED: DJF-VSE
REVISED:

N1
9/13/18
REVISION 0

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REVISION TABLE			
REVISION	DESIGNER	DATE	SCOPE OF REVISION
0	DJF-VSE	9-13-18	FINAL ENGINEERING

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TOLERANCES

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ANGULAR
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NOTES & SPECIFICATIONS

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JOB #: RG18-01105W-05R1
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DESIGNED: DJF-VSE
REVISED:

N2
9/13/18

REVISION 0

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651 W. GALENA PARK BLVD., SUITE 101
DRAPER, UT 84020
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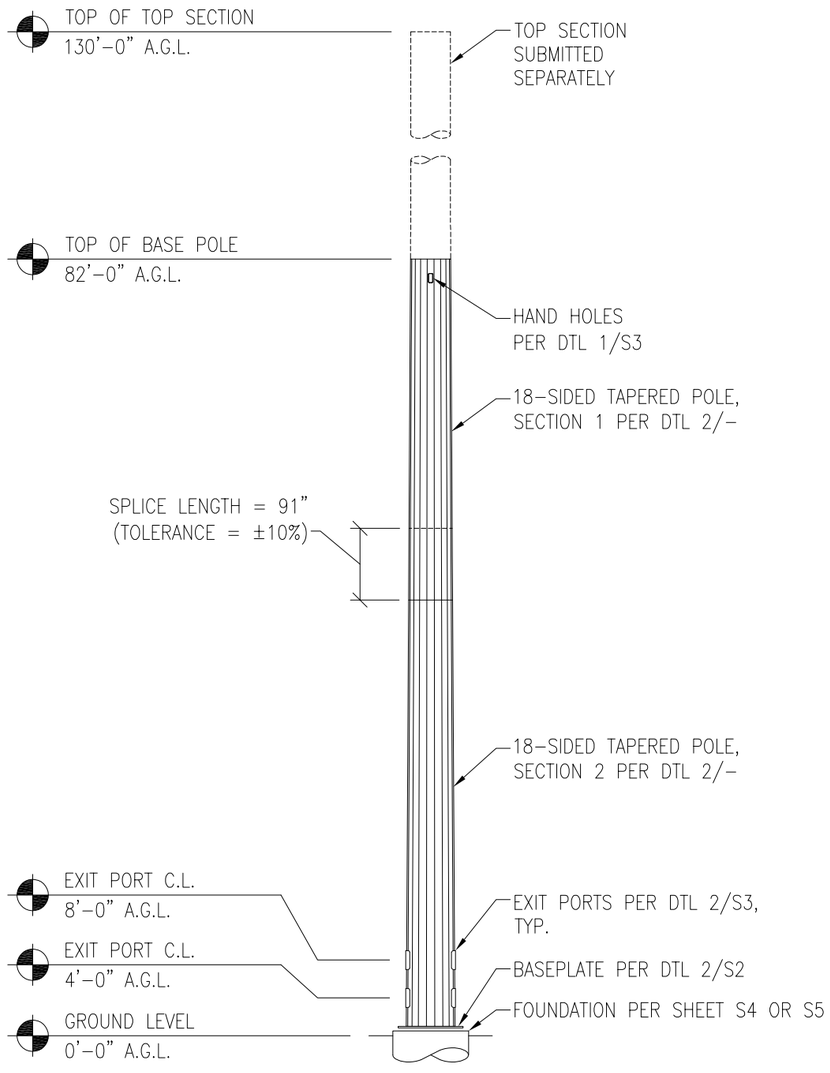
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MONOPOLE SECTION CHART[2]					
SECTION	LENGTH	TOP[4] ø	BOTTOM[4] ø	THICKNESS	WEIGHT[1,3]
1	36'–0"	50.00"	55.04"	5/16"	6.6 K
2	52'–7"	53.35"	60.72"	5/16"	12.2 K

NOTES:

1. SECTION WEIGHT INCLUDES PORTS. LOWEST SECTION WEIGHT INCLUDES BASEPLATE WEIGHT.
2. DESIGN TAPER = 0.14 in/ft.
3. WEIGHTS LISTED IN THIS CHART ARE RAW STEEL WEIGHTS. FINAL WEIGHTS MAY BE UP TO 22% GREATER DUE TO GALVANIZING AND OTHER MISCELLANEOUS ITEMS.
4. DIAMETER OF POLE SECTIONS AT LAP SPLICES MAY BE ADJUSTED BY UP TO 0.06" TO ACCOUNT FOR THE THICKNESS OF COATINGS.

POLE SECTIONS (2)
N.T.S.



ELEVATION VIEW (1)
N.T.S.

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RUSSELL N. EMERY LICENSE No 71060 STATE OF FLORIDA PROFESSIONAL ENGINEER

09/13/2018

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TOLERANCES
DECIMALS: X ± 1/16", .XXX ± 0.01"
ANGULAR: X ± 0.5°

ELEVATION

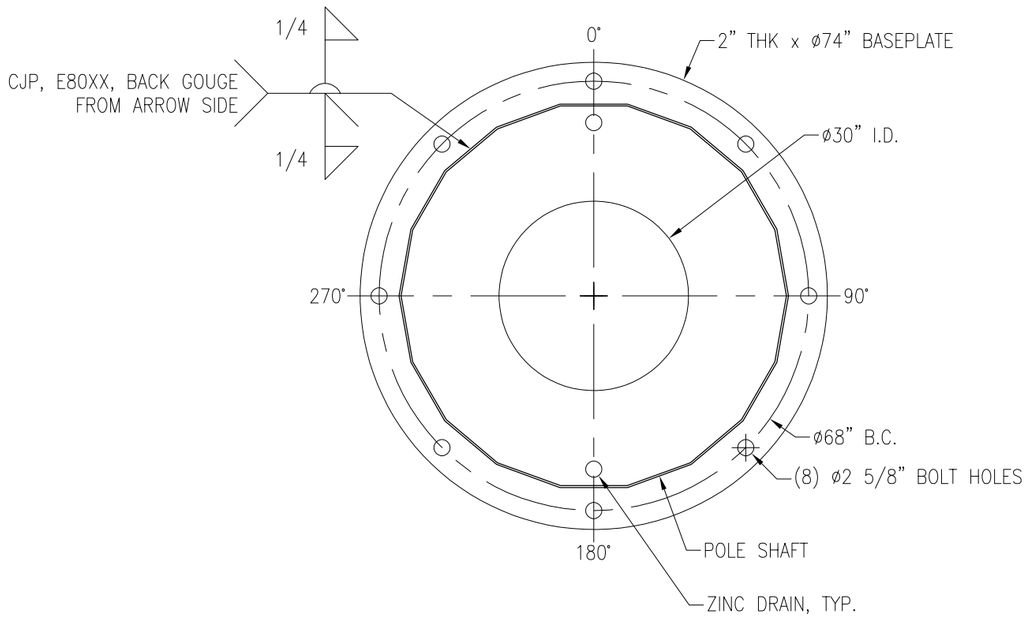
RG TOWERS
FT. PIERCE ORANGE AVE
BASE POLE
2006 ORANGE AVENUE
FT. PIERCE, FL 34950

JOB #: RG18-01105W-05R1
DRAWN: LSB-VSE
DESIGNED: DJF-VSE
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BASEPLATE (2)
N.T.S.

DESIGN LOADING:
ANTENNA C.L. @ 124'-0" & 112'-0" A.G.L.:
(2) 72.0"x25.2"x9.3" PANEL ANTENNAS
(2) 22"x12"x8" RRUs
(2) 22"x12"x7.4" RRUs
(1) 20.38"x18.86"x5.83" COVP
ANTENNA C.L. @ 100'-0" & 88'-0" A.G.L.:
(3) 96"x14.6"x7.3" PANEL ANTENNAS
(3) 7.62"x6.65"x3.69" TMAs
(3) 5.63"x3.7"x2" TMAs

NOTE: ALL EQUIPMENT TO BE ENCLOSED IN ø50" RADOMES

APPURTENANCES (1)
N.T.S.

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DECIMALS
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DETAILS

RG TOWERS
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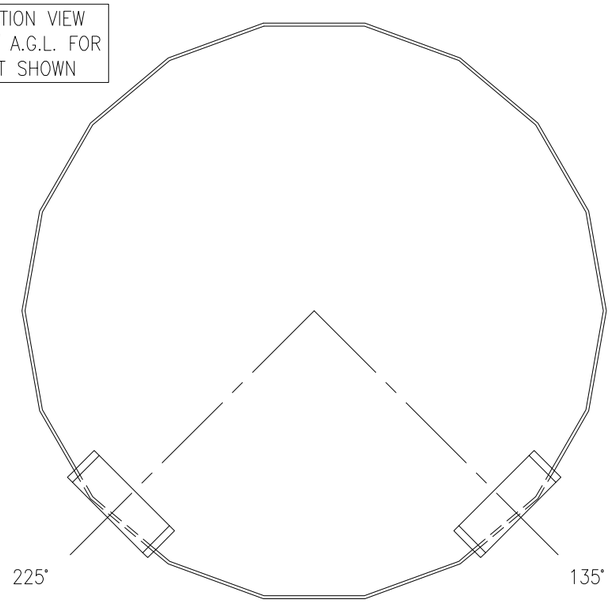
JOB #: RG18-01105W-05R1
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DRAPER, UT 84020
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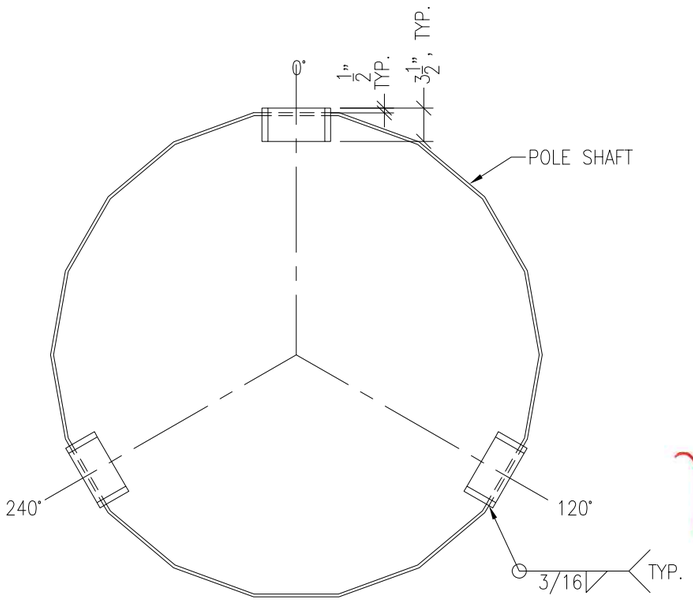
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SEE SECTION VIEW @ 4'-0" A.G.L. FOR INFO NOT SHOWN

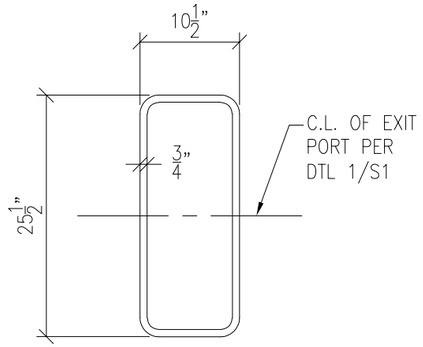


SECTION VIEW @ 8'-0" A.G.L.

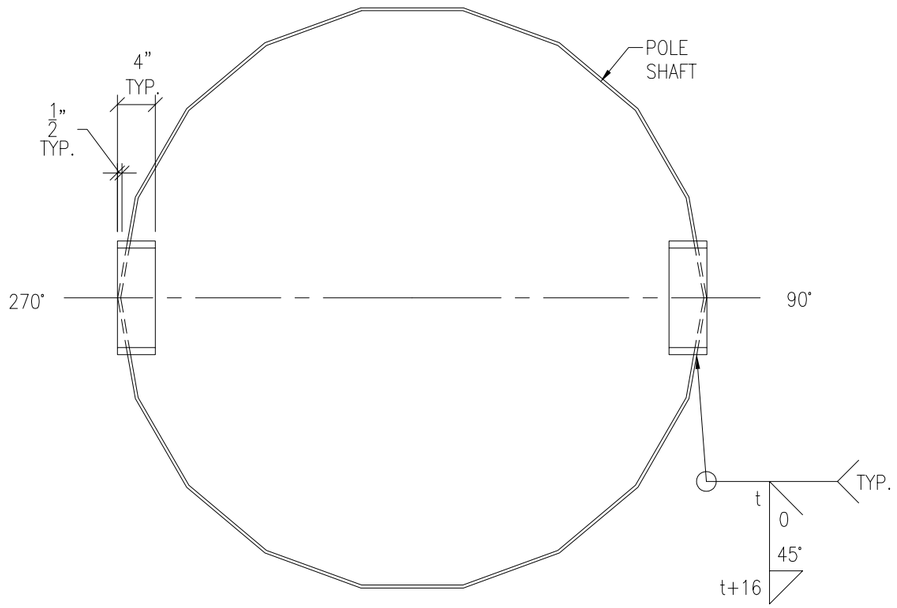
NOTE: AZIMUTHS TO BE VERIFIED PRIOR TO FABRICATION



SECTION VIEW



ELEVATION VIEW

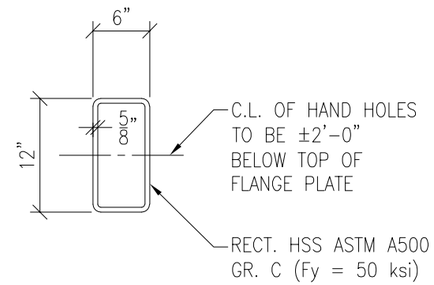


SECTION VIEW @ 4'-0" A.G.L.

REINFORCED EXIT PORTS

N.T.S.

2



ELEVATION VIEW

HAND HOLES

N.T.S.

1

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PROFESSIONAL ENGINEER

09/13/2018

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TOLERANCES
DECIMALS X ± 1/16" .XXX ± 0.01"
ANGULAR X ± 0.5°

DETAILS

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BASE POLE
2006 ORANGE AVENUE
FT. PIERCE, FL 34950

JOB #: RG18-01105W-05R1
DRAWN: LSB-VSE
DESIGNED: DJF-VSE
REVISED:

S3
9/13/18

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DRAPER, UT 84020
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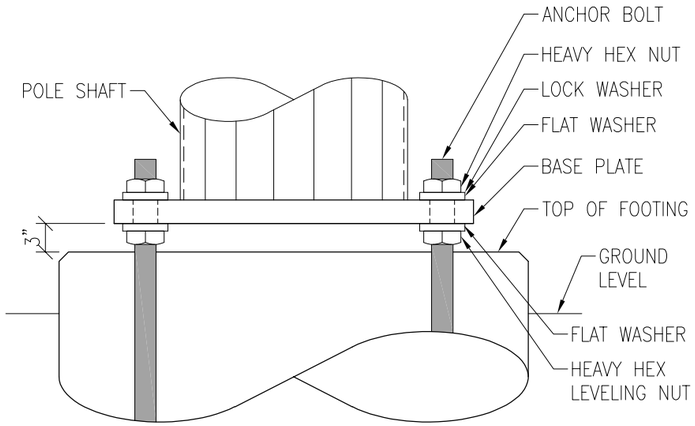
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FOUNDATION NOTES:

1. FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL REPORT:

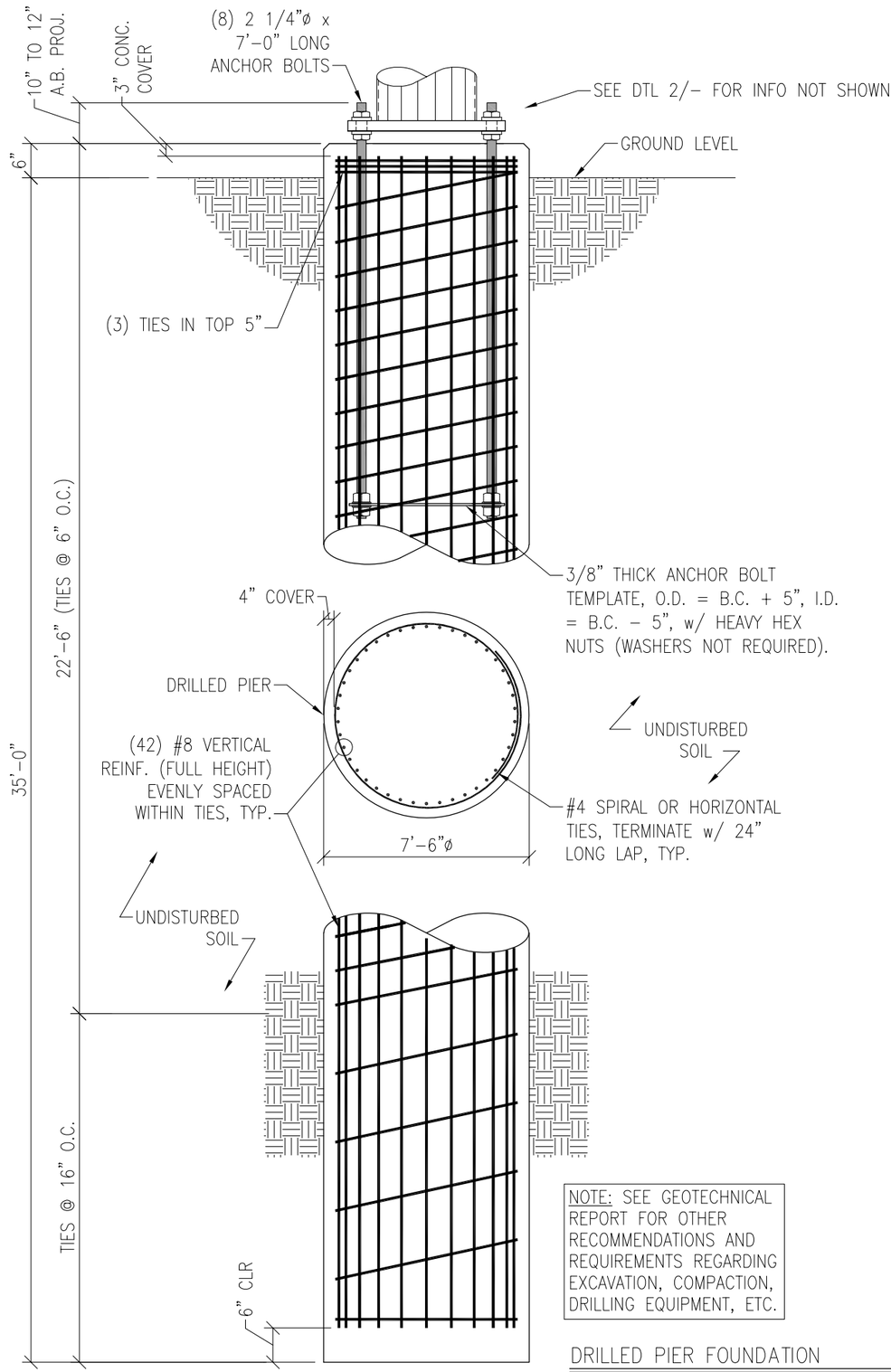
   ENVIRONMENTAL CORPORATION OF AMERICA
   REPORT: T4300
   DATE: AUGUST 22, 2018

2. ALL CONCRETE SHALL USE PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF PSI AT 28 DAYS. CONCRETE SHALL HAVE A MINIMUM OF 6% ENTRAINED AIR (WHERE FROST DEPTH > 0"). CONCRETE SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.50. CONCRETE SHALL HAVE A SLUMP OF 5" (±1") UNLESS OTHERWISE SPECIFIED IN THE GEOTECHNICAL REPORT. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318–11. FOUNDATION INSTALLATION SHALL BE IN ACCORDANCE WITH ACI 336, "STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF DRILLED PIERS," LATEST EDITION.
3. REINFORCING STEEL SHALL CONFORM WITH THE REQUIREMENTS OF ASTM A–615, GRADE 60. ALL REINFORCING DETAILS SHALL CONFORM TO "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315, LATEST EDITION, UNLESS DETAILED OTHERWISE ON THIS DRAWING.
4. INSTALLATION OF FOUNDATION MUST BE OBSERVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER FIRM. GEOTECHNICAL ENGINEER TO PROVIDE A NOTICE OF INSPECTION FOR THE BUILDING INSPECTOR FOR REVIEW AND RECORD PURPOSES.
5. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR INFORMATION REGARDING INSTALLATION METHOD, REQUIRED INSTALLATION EQUIPMENT, AND ALL OTHER REQUIREMENTS RELATED TO THE INSTALLATION OF THE PIER.
6. ALL ALL ANCHOR BOLTS SHALL CONFORM w/ ASTM A615 GR. 75, GALVANIZED U.N.O.



N.T.S. (2)

VECTOR ENGINEERS
651 W. GALENA PARK BLVD., SUITE 101
DRAPER, UT 84020
P: (801) 990-1775 F: (801) 990-1776
VECTOR PROJECT: U0142-705-181
FL FIRM LICENSE NUMBER: COA 26626



DRILLED PIER FOUNDATION
N.T.S. (1)

STEALTH®
GO UNNOTICED™
3034-A ASHLEY PHOSPHATE RD.
NORTH CHARLESTON, SC 29418
P: (800)-755-0689 F: (843)-207-0207
WWW.STEALTHCONCEALMENT.COM

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RUSSELL N. EMERY
LICENSE
No 71060
STATE OF FLORIDA
PROFESSIONAL ENGINEER

09/13/2018

DRAWING NOT TO SCALE. UNLESS SPECIFIED OTHERWISE DIMENSIONS SHOWN ARE IN INCHES
TOLERANCES
DECIMALS X ± 1/16" .XXX ± 0.01"
ANGULAR X ± 0.5°

DRILLED PIER FOUNDATION

RG TOWERS
FT. PIERCE ORANGE AVE
BASE POLE
2006 ORANGE AVENUE
FT. PIERCE, FL 34950

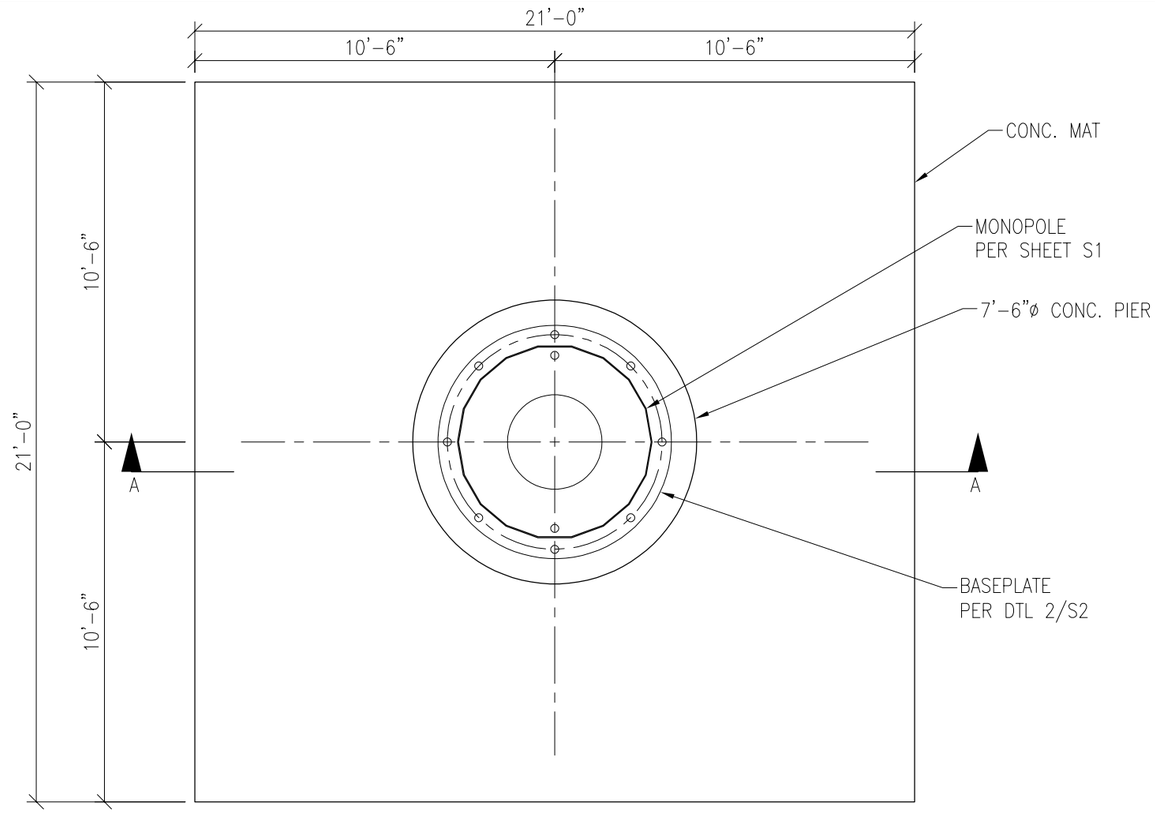
JOB #: RG18-01105W-05R1
DRAWN: LSB-VSE
DESIGNED: DJF-VSE
REVISED:

S4
9/13/18
REVISION 0

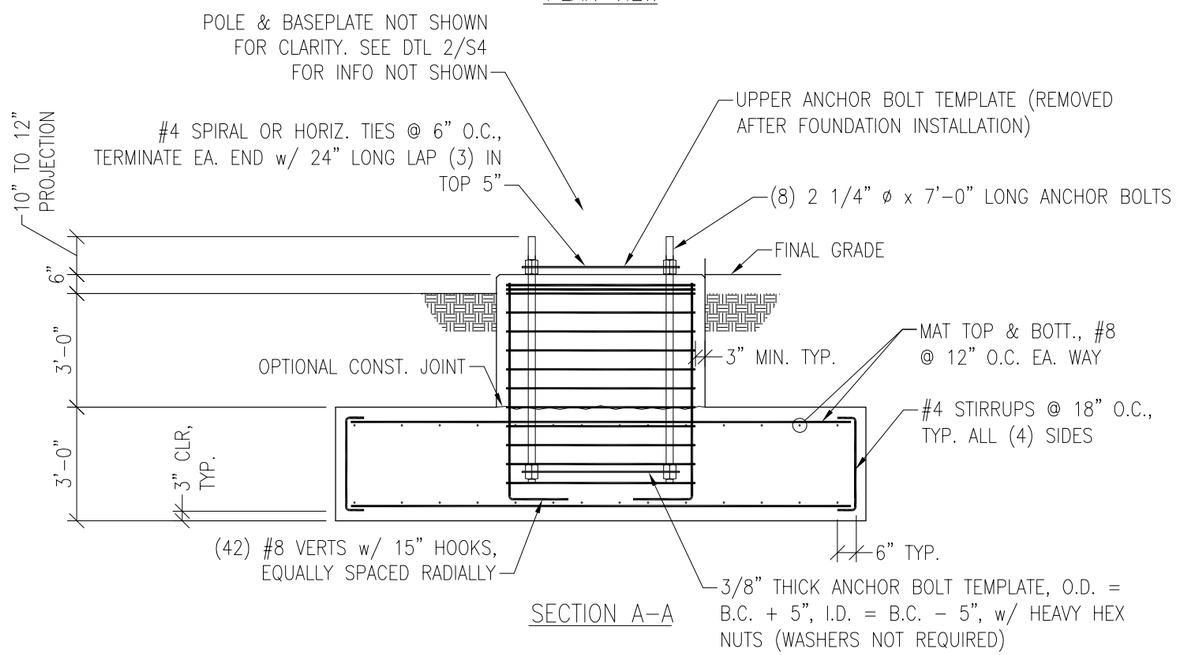
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FOUNDATION NOTES:

SEE SHEET S4 FOR FOUNDATION NOTES



PLAN VIEW



SECTION A-A

MAT FOUNDATION

N.T.S.

1

VECTOR ENGINEERS
651 W. GALENA PARK BLVD., SUITE 101
DRAPER, UT 84020
P: (801) 990-1775 F: (801) 990-1776
VECTOR PROJECT: U0142-705-181
FL FIRM LICENSE NUMBER: COA 26626

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RUSSELL N. EMERY
LICENSE
No 71060
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

09/13/2018

DRAWING NOT TO SCALE. UNLESS SPECIFIED OTHERWISE DIMENSIONS SHOWN ARE IN INCHES
TOLERANCES
DECIMALS X ± 1/16" .XXX ± 0.01"
ANGULAR X ± 0.5°

MAT FOUNDATION

RG TOWERS
FT. PIERCE ORANGE AVE
BASE POLE
2006 ORANGE AVENUE
FT. PIERCE, FL 34950

JOB #: RG18-01105W-05R1
DRAWN: LSB-VSE
DESIGNED: DJF-VSE
REVISED:

S5
9/13/18

REVISION 0

T··Mobile··
Engineering & Operations

A2P0227A

Ft Pierce- Orange Ave Wireless Telecommunication Facility

Radio Frequency (RF) Engineering Report

Last Updated	8/10/2018
Revision Number	V1.1

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Search Ring Area

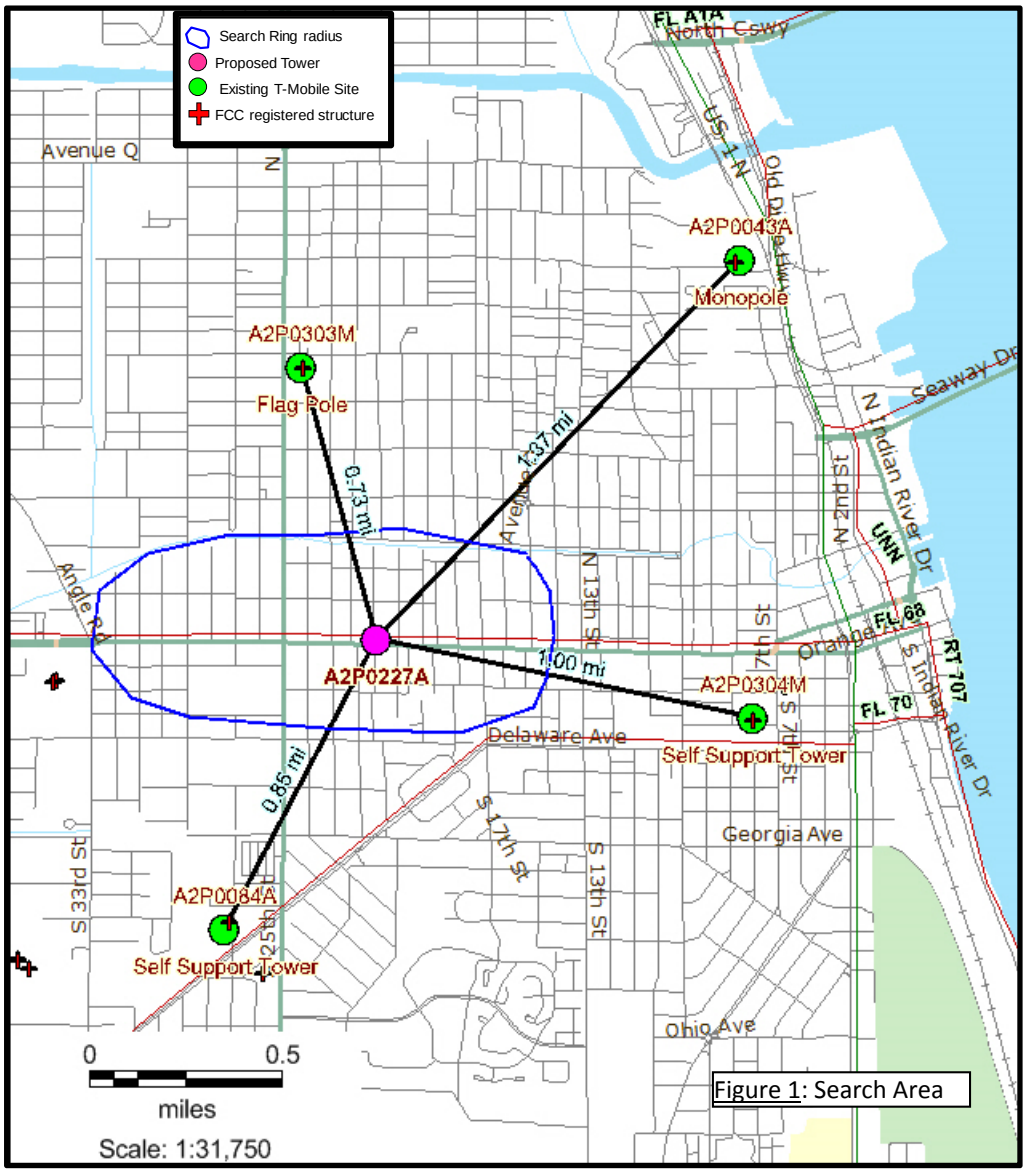


Figure 1: Search Area

As part of T-Mobile's commitment to improve service in the south Florida market a number of "search rings" have been issued to address coverage deficiencies in the cellular network. Each search ring is in an area where service levels are inadequate to provide the necessary cell phone coverage or capacity. Within the search ring existing towers or structures of sufficient height are sought with the goal of deploying radio transceivers and antennas to improve the local area service levels.

Due to the dramatic increase in cell phone traffic and the popularity of wireless data applications over the last few years, significant demands have been placed on network coverage and capacity. One such area in need of improved services is in the city of Ft Pierce from Canal Terrace in the north to Havana Ave in the south and from S 25th St in the west to 13th St in the east. Coverage levels are too low to support the capacity and coverage needs for this part of the network. Users placing calls indoors and especially during network busy hours may experience dropped calls, ineffective network attempts and slow data application speeds. In the worst-case a user may not be able to place a E911 call.

There were no towers or structures of sufficient height within the T-Mobile search area that could accommodate the addition of new facility that would provide an adequate coverage improvement. The surrounding facilities have undergone extensive upgrades over the last decade with no appreciable improvement in service levels in the area of concern.

Shown above in Figure 1 is the T-Mobile search ring and the proposed location surrounded by existing T-Mobile cellular facilities ("cell sites").

Site_ID	Site_Name	Site_Class_Desc	Antenna Elevation (ft)	Address	City	Distance (mi)
A2P0303M	FT. PIERCE FL1512	Flag Pole	145	910 N. 25th Street	Fort Pierce	0.7
A2P0084A	SBA 27TH STREET	Self Support Tower	140	111 S. 27th Street	Ft. Pierce	0.9
A2P0304M	Crown Citrus Ave	Self Support Tower	120	712 Citrus Ave.	Fort Pierce	1.0
A2P0043A	Crown	Monopole	180	710 Avenue M	Fort Pierce	1.4

Current Cell Site Coverage and Predicted Improvements

Good (reliable indoor service)	Average (reliable outdoor service)	below average (poor service)
Signal power levels able to support a wide range of wireless services both indoors and outdoors. These services include voice calls and high speed data.	Users may experience call quality issues depending on the signal power levels at their specific location. These issues could include dropped calls, ineffective attempts (blocked calls) or slow data speeds. Service in outdoor locations would be markedly better than indoors in many instances.	A user would encounter call quality issues especially indoors or during network busy hours due to low signal power levels. These issues could include dropped calls, ineffective attempts (blocked calls) and slow data speeds. Service may only be available in outdoor locations. In the worst case a user may not be able to place an emergency (E911) call.

Existing Coverage

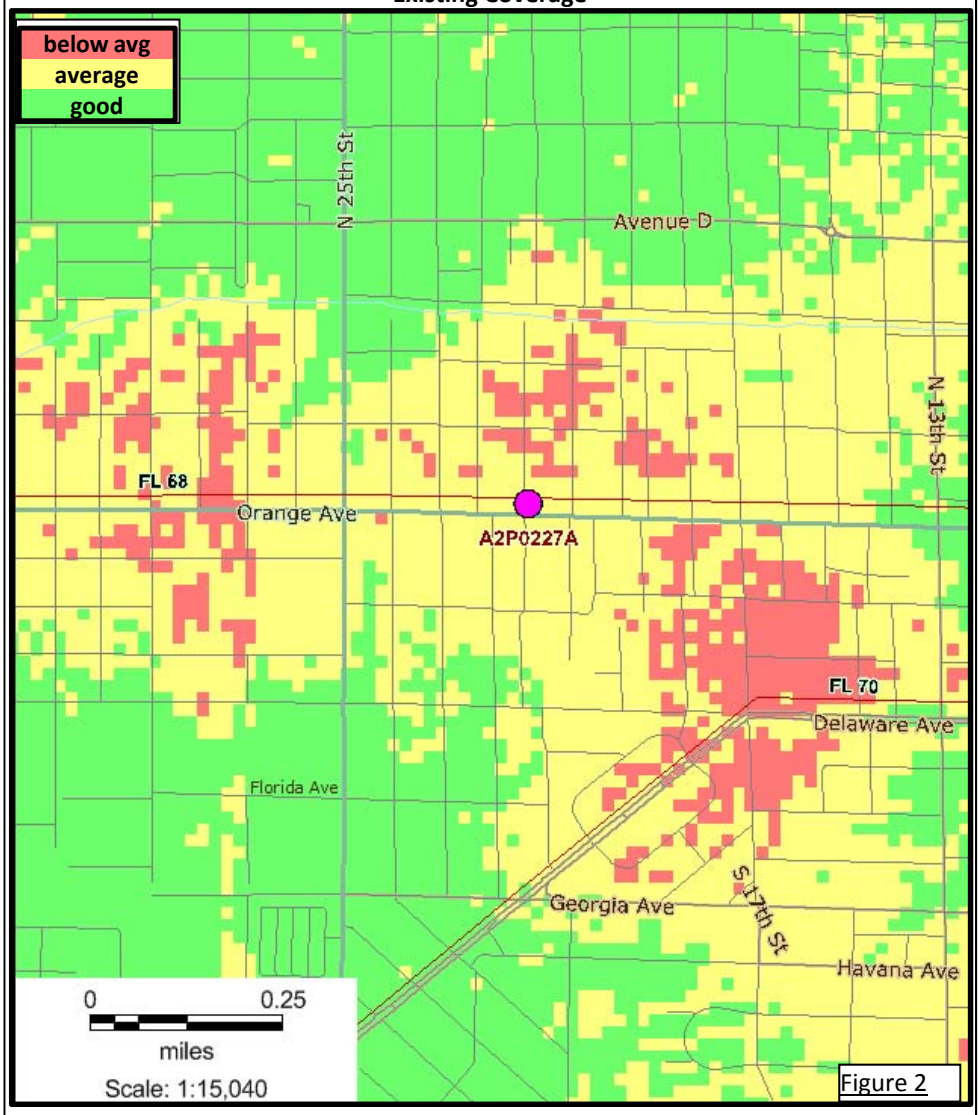


Figure 2

As part of T-Mobile's design and development process a number of engineering studies are completed to ensure a best-fit approach for cell site additions in the network. Propagation or prediction plots are one of the most important of these and are used extensively to determine if a new proposal is adequate.

In Figure 2 the cell site propagation is shown as shades of color which represent signal power levels that a user would experience at a particular location. The propagation model is based on a predictive computer simulator application that is derived from proprietary methodologies. Green areas indicate signal power levels able to support a wide range of wireless services both indoors and outdoors. These services include voice calls and high speed data. The yellow color indicates areas where a user may experience call quality issues due to inconsistent signal power levels. This may depend on their specific location. For instance, a person may be able to use the cell phone on one side of their house near a window but unable to connect in another part of the house. The red areas represent where a user would encounter call quality issues due to low or unusable signal power levels. This would be especially true indoors or during network busy hours. These issues could include dropped calls, ineffective attempts and slow data speeds. In the worst case a user may not be able to place an emergency (E911) call.

Predicted Coverage with New Facility

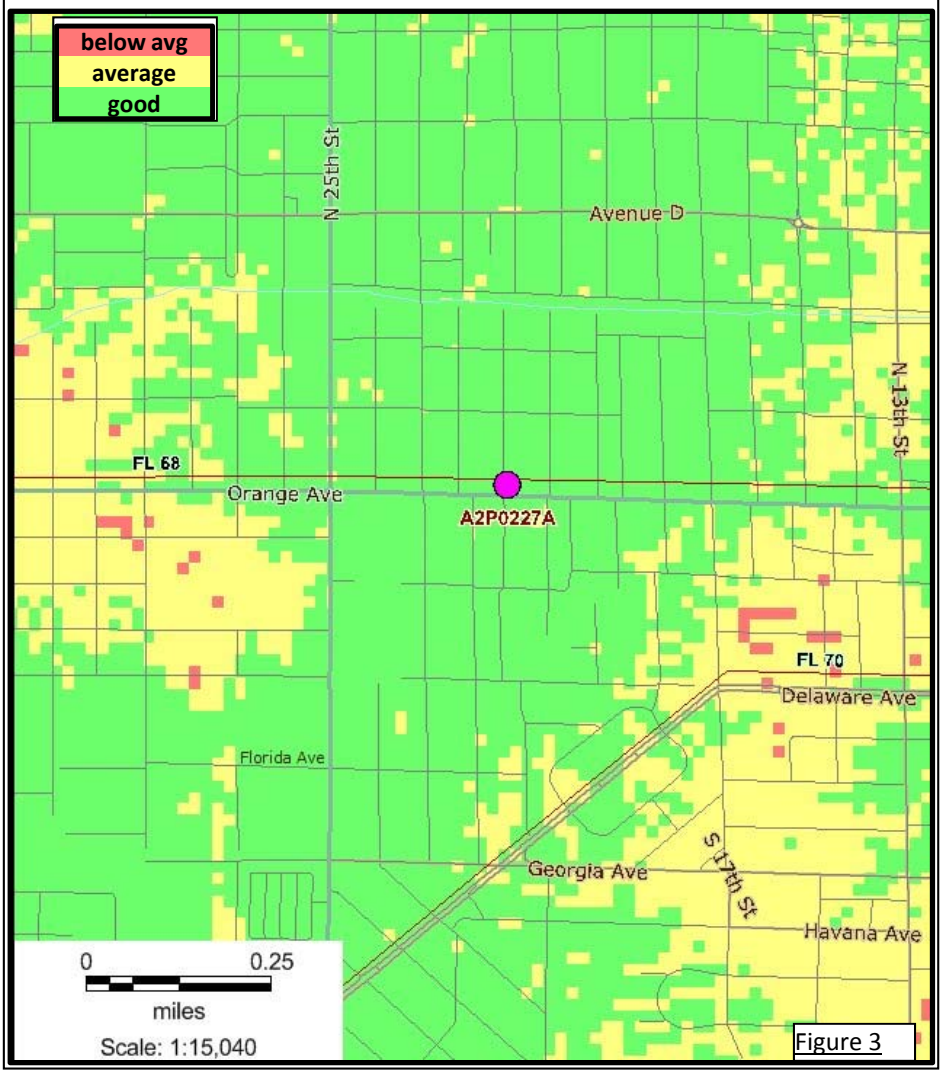


Figure 3

The propagation map shown in Figure 3 depicts the predicted signal power levels for the proposed tower when added to the existing network. As can be seen almost all the residential areas have a minimum of average service levels. This is especially important for users who are transitioning from one geographic area to another due to a more consistent coverage overlay. Users indoors will also benefit tremendously due to the closer proximity to the antenna locations. Areas where below average signal power levels still exist can sometimes be alleviated through network optimization methods after the new site comes on line. (These processes are iterative and require a more medium to long term engineering approach)

In summary, T-Mobile has recognized the demand for advanced telecommunication services in these communities. The existing T-Mobile facilities cannot provide these services through upgrade or expansion, due to the distances from the existing tower facilities and cell phone users in this area. Further, no towers or structures of sufficient height were identified in the search ring that could provide the necessary improvements to the network coverage.

These propagation maps graphically demonstrate T-Mobile's business needs based upon existing and predicted customer demands. T-Mobile's goal is to provide reliable wireless service in the areas shown as defined by proprietary QOS (Quality of Service) design parameters.

Certification Statement of Non-interference

This letter provides information about the proposed T-Mobile transceiving equipment on the proposed facility at 2006 Orange Ave, Ft Peirce and its potential interference with communication facilities located nearby; as well as the FCC rules governing the human exposure to radio frequency energy (OET 65 guidelines). T-Mobile shall comply with all FCC rules regarding interference to other radio services and T-Mobile shall comply with all FCC rules regarding human exposure to radio frequency energy. The proposed tower facilities, and reception and transmission functions will not interfere with the visual and customary transmission or reception of radio, television or similar services as well as other wireless services enjoyed by surrounding properties.

T-Mobile radio signals are transmitted on exclusively assigned channels within the E, F and C bands in the PCS spectrum and the D, E, F1 and F2 in the AWS spectrum and A Band in 700MHz. In the future AWS-3 Block H and B, C and D blocks in 600 MHz will be active. The Federal Communication Commission (FCC) has allocated these frequencies exclusively for use by cellular service providers. Each cellular service provider is assigned specific frequencies (channels) on which to transmit and receive radio signals.

Cellular transmitters must be type-accepted by the FCC to ensure compliance with technical standards that limit the frequencies, output power, radio frequency emissions, spurious radio noise and other technical parameters. Cellular licensees like T-Mobile owns are required to use type-accepted equipment. The assignment of frequencies and FCC rules keep cellular radio signals from interfering with or being interfered with by other radio transmissions and provide guidelines outlining the limits for permissible human RF exposure. In the event of a complaint of interference or other concerns about cellular antenna facilities, the FCC has a resolution process to determine the source of interference and whether a facility is in compliance with FCC rules.

In the event of interference or other known issues with the transmission facility contact with the T-Mobile Network Operations Center (NOC) can be established 24 hours a day, 7 days a week 365/366 days per year at the following numbers: (877) 611-5868 (DAY), (877) 611-5868 (NIGHT)

Name Patrick Keane Title T-Mobile RF Engineer



Signature

7017 0190 0000 0262 7657

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Postage	$0.49
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Total Postage and Fees	$3.84
$	

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City, State, ZIP+4®: Lake Mary FL 32746

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RG TOWERS, LLC.

Ft Pierce Planning and Zoning
100 N. U.S. Highway 1
Fort Pierce, FL 34950

5-10-18

RE: RG Towers – Ft Pierce- Orange Ave Design Review Application Checklist- Section i. Accurate color rendering of proposed signs showing dimensions, type of lettering, materials and actual color samples that demonstrates cohesiveness with the project design.

Please allow the photograph below to represent the signage proposed for our proposed new communication tower to be located at 2006 Orange Ave.





Please let me know if you have any questions.

Sincerely

Holly Valdez
V.P. Operations
RG Towers LLC

RG Towers, LLC

Ft Pierce Planning and Zoning
100 N. U.S. Highway 1
Fort Pierce, FL 34950

5-10-18

RE: RG Towers – Ft Pierce Orange Ave Design Review Section f. Photographs of all existing structures located on the property. If existing structures on the property are more than fifty (50) years of age, documentation of these structures with data from the Florida Master Site File form is also required.

2141 Alternate A1A South, Suite 440
Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com





Please let me know if you have any questions.

Sincerely,

Holly Valdez

Holly Valdez
RG Towers, LLC
V.P. Operations

2141 Alternate A1A South, Suite 440
Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com

Ft Pierce Planning and Zoning
100 N. U.S. Highway 1
Fort Pierce, FL 34950

RE: RG Towers – Ft Pierce- Orange Ave Design Review Application Checklist- Section e.

Please allow the photographs below to serve as a precedent for the proposed building design of the new proposed communication tower to be located at Orange Ave. These are all local towers within two miles of the proposed area of development.

Str Reg #	Tower Owner	Distance	Type	Colocations	Height	Address
1270020	American Towers, LLC.	0.79	flagpole	flagpole	150ft	Fl1512 Ft. Pierce - 910 N 25th St Structure City: Fort Pierce, FL
1028726	BellSouth Telecommunications, LLC	1.03	rooftop	rooftop	141ft	712 Citrus Ave Structure City: Fort Pierce, FL
1027499	FLORIDA POWER & LIGHT COMPANY	0.86	guyed	3	300ft	South 33rd Street At Hwy 68 Structure City: Fort Pierce, FL
1227259	Crown Communication LLC	1.43	monopole	3	191ft	710 Ave "m Structure City: Fort Pierce, FL
1036166	SBA Properties, LLC	0.77	SST	2 or 3	350ft	St. Lucie County Structure City: Ft. Pierce, FL
1203992	Daves Communications Inc	0.9	granted	granted	161ft	2530 Okeechobee Rd Structure City: Ft. Pierce, FL
1257640	American Towers, LLC	1.18	unipole	unipole	205ft	37th Street (#75126-shielded) Structure City: Ft. Pierce, FL
1035334	r INDIAN RIVER STATE COLLEGE	1.85	SST	2	500	3209 Virginia Avenue Structure City: Ft. Pierce, FL

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

Design Review

Property address or Location 2006 Orange Ave
Parcel ID #(s) 2409-605-0008-000-4
Project Description New Communication tower w/ compound

Abdel Jebbar Elbakkari	Leslie Phillips RG Towers, LLC
Property Owner(s)	Applicant/Representative, Title, Company
2006 Orange Ave.	2141 Alt. A1A S. Ste 440
Street Address	Street Address
Ft Pierce FL 34950	Jupiter FL 33477
City State Zip	City State Zip
772-595-8129	561-748-0302
Phone Number	Phone Number
amal0012012@gmail.com	hvaldez@rgpartners.com
Email Address	Email Address

Property Owner(s) Acknowledgements: *- This application will not be considered complete without the signature of all property owners of record, which shall serve as an acknowledgement of the submission of this application. The property owner's signature below shall also authorize the Application (if other than the property owner) and/or Representative to act in his/her behalf for the purposes of seeking approval for the application described herein.*

Leslie Phillips 6/14/18
Property Owner(s) Signature(s)

STATE OF FLORIDA -- COUNTY
The foregoing instrument was acknowledged before me this 14th day of June, 2018, by Leslie Phillips who is personally known to me or has produced _____ as identification.

Holly Valdez
Signature of Notary

HOLLY VALDEZ
Notary Public – State of Florida
Commission # GG 118687
My Comm. Expires Aug 4, 2021
Bonded through National Notary Assn.

(seal)

TO BE COMPLETED BY STAFF

Zoning	Future Land Use	Total Acres	Historic Districts	Historic Designation

Pre-Application Meeting Date _____
Intake Planner _____
Planner Assigned _____
Approved _____ Date _____
Comments _____

Fees _____ Control # _____ B. Permit _____

Intake Date Stamp

1270020



1028726



1027499



1227259



1036166



1203992



1257640



1035334



RG Towers, LLC built a monopole tower located at 2551 Jenkins Rd, Ft Pierce FL 34947 in 2016.

1297991



Please let me know if you have any questions.

Sincerely

Holly Valdez
V.P. Operations
RG Towers LLC

RG Towers, LLC

Ft Pierce Planning and Zoning
100 N. U.S. Highway 1
Fort Pierce, FL 34950

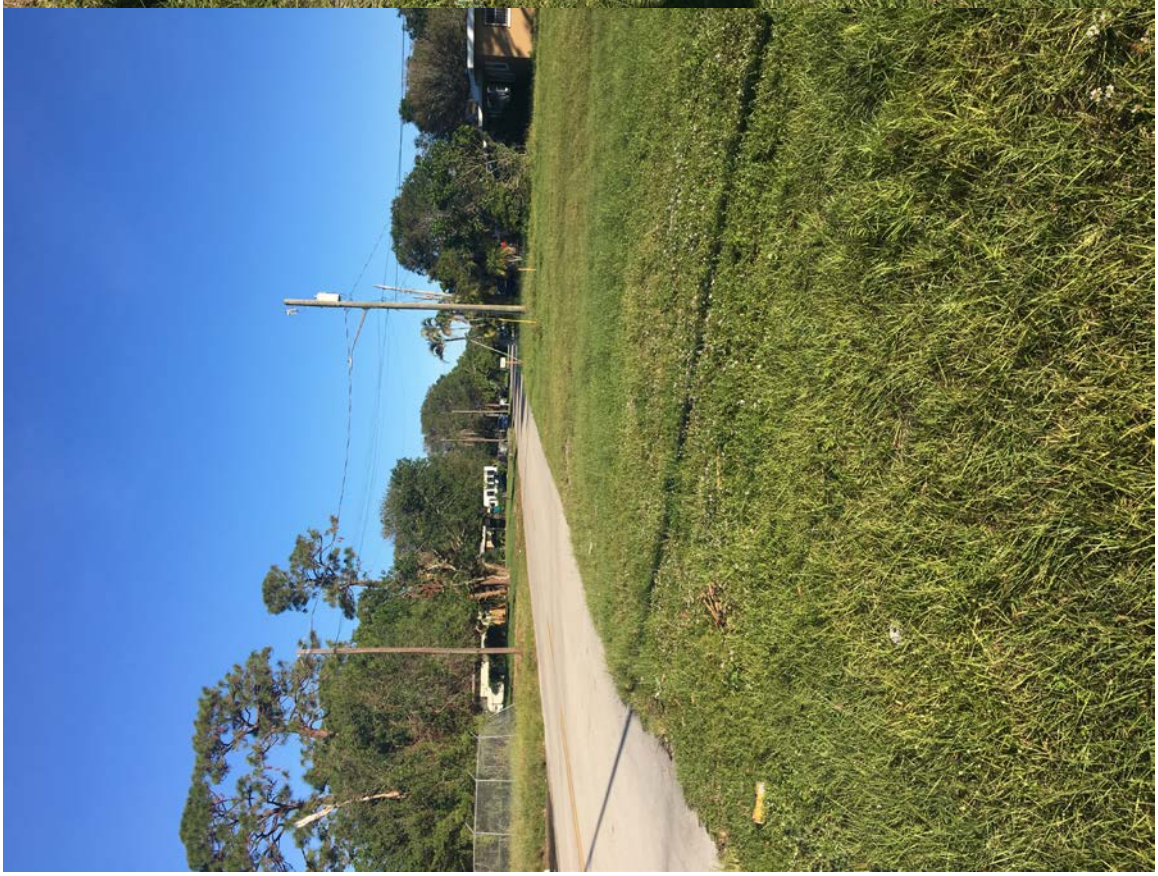
5-10-18

RE: RG Towers – Ft Pierce Orange Ave Design Review Section D Context photographs of neighboring uses and architectural styles.



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Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com





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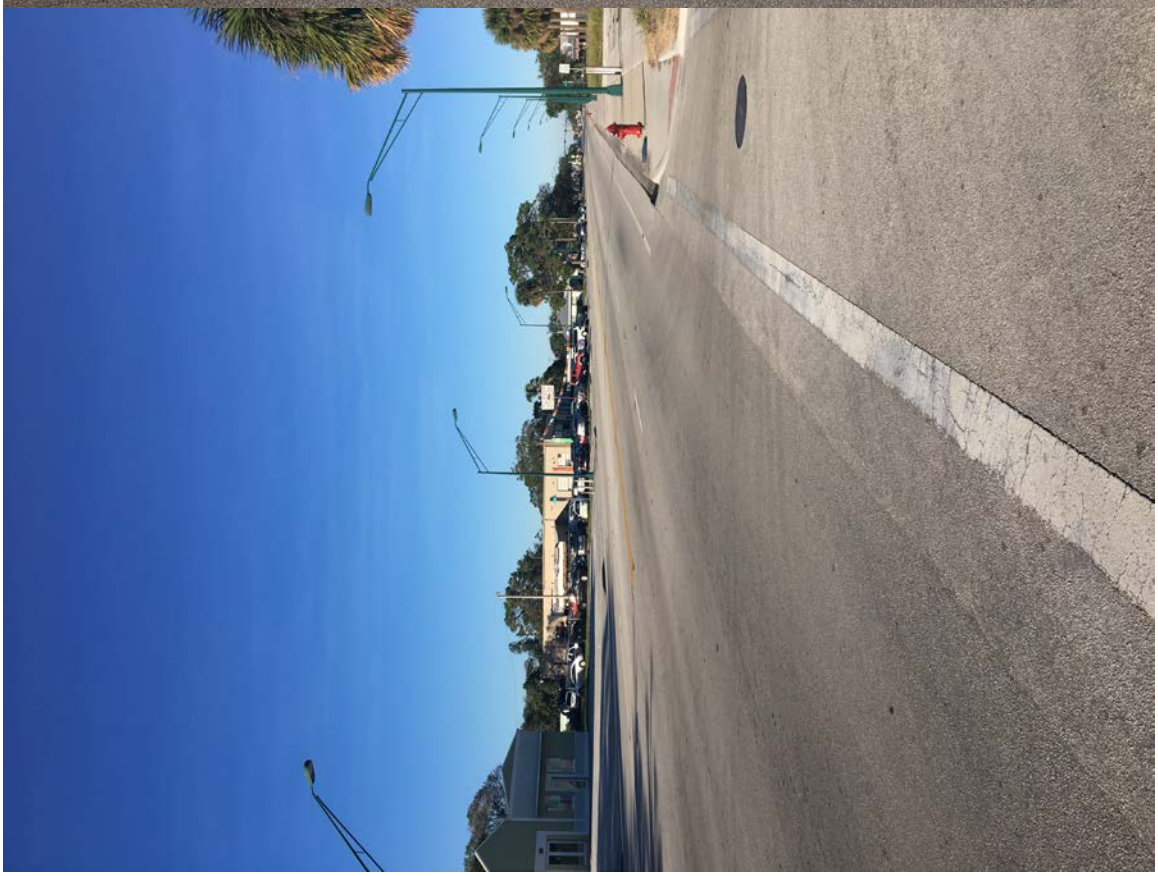
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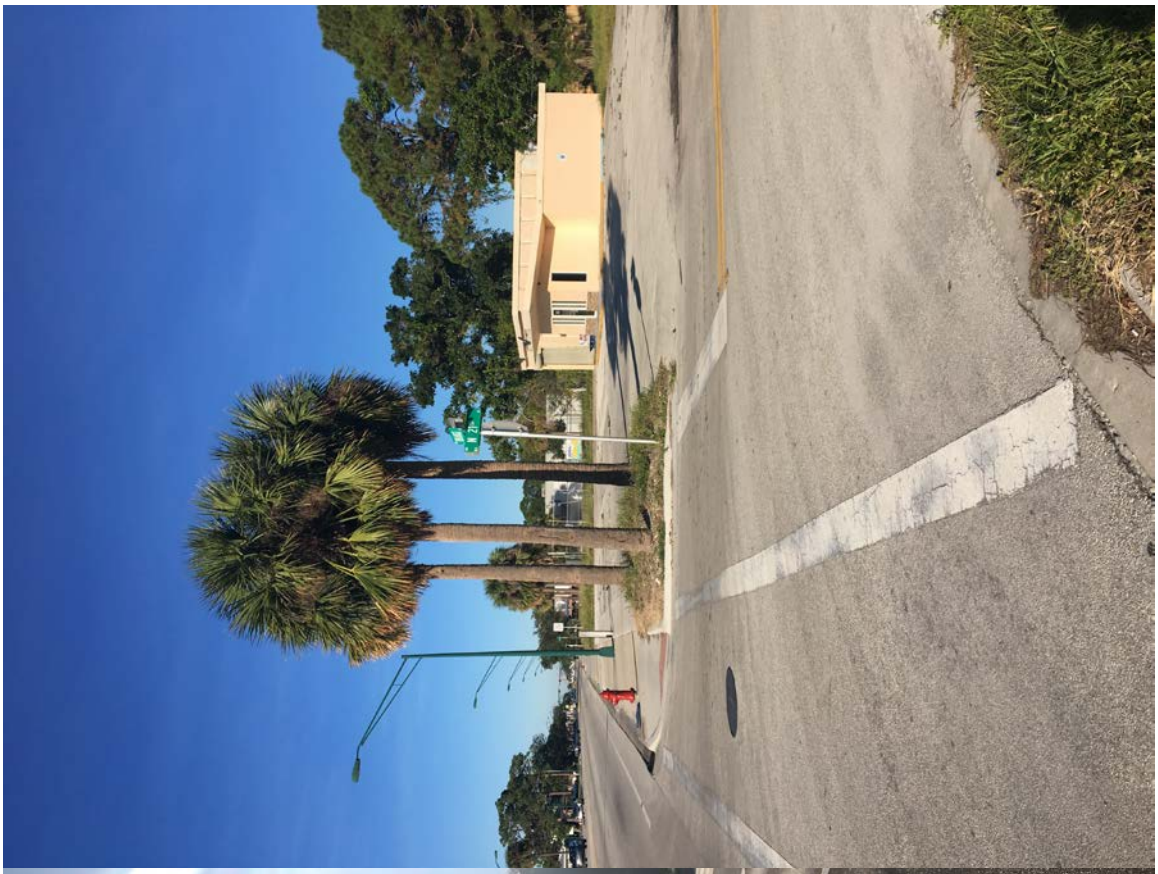


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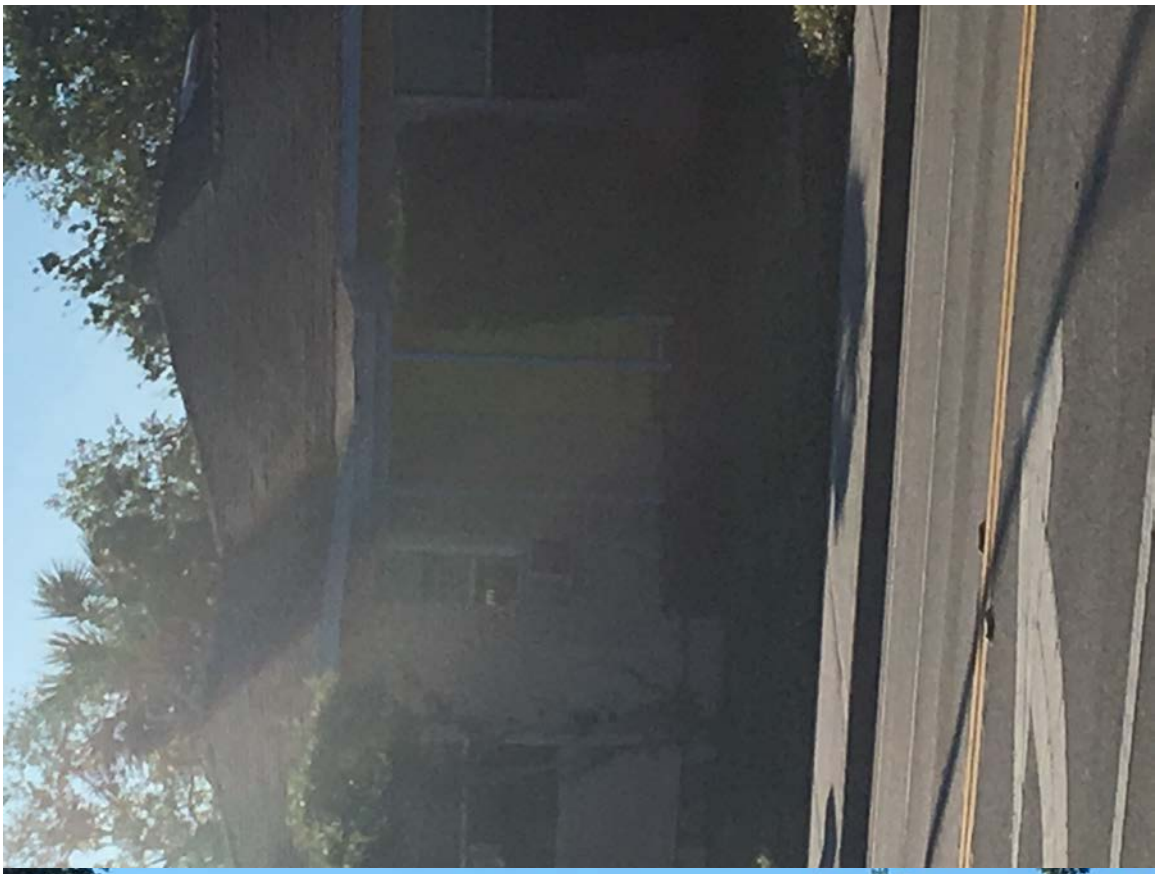
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Please let me know if you have any questions.

Sincerely,

Holly Valdez
RG Towers, LLC
V.P. Operations

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RG Towers, LLC

Ft Pierce Planning and Zoning
100 N. U.S. Highway 1
Fort Pierce, FL 34950

5-10-18

RE: RG Towers – Ft Pierce Orange Ave Design Review Section c. A draft written narrative describing the design intent of the project, its goals and objectives and how it reflects the site analysis study results.

Coverage levels in this area are too low to support the capacity and coverage needs for this part of T-Mobile's network. Users placing calls indoors and especially during network busy hours may experience dropped calls, ineffective network attempts and slow data application speeds. In the worst-case a user may not be able to place a E911 call. For this reason, RG Towers, LLC is applying for approval to build a 130' communications tower at the location shown below.

Tower Height/Type	130' Stealth Communication Tower
Address	2006 Orange Ave, Ft Pierce FL 34950
Coordinates	Approximately 27.447636, -80.345960

The parcel is currently owned by Lesley Phillips and Abdel Jebbar Elbakkari. RG Towers, LLC entered into a Lease Agreement dated 9/27/17.

The character of this undeveloped parcel is commercial with no existing vegetation in the proposed lease area and is among primarily commercial zones as seen in the attached photographs. The surrounding zones are as follows;

ADJACENT ZONING CLASSIFICATIONS	ZONING/LAND USE CLASSIFICATION
ZONING TO EAST	C-3/GENERAL COMMERCIAL
ZONING TO SOUTH	C-3/GENERAL COMMERCIAL
ZONING TO WEST	C-3/GENERAL COMMERCIAL
ZONING TO NORTH	R3/SINGLE FAMILY MODERATE DENSITY

The intended use will be the development of a 130' stealth communication tower with a 6' wooden fenced compound to enclose the auxiliary equipment. The fenced compound will be

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Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com

landscaped per the code to be made up of live oaks and podocarpus on the east and north sides and on the west and south sides the fence will be left intentionally blank for future artwork related to the Peacock and Lincoln Park Districts . In addition to the fencing and landscaping, RG Towers will install a concrete apron access off N. 21st Street.

This is to be an unmanned facility with only semiannual visits for maintenance outside of initial construction.



Please let me know if you have any questions.

Sincerely,

Holly Valdez
RG Towers, LLC
V.P. Operations

2141 Alternate A1A South, Suite 440
Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com

RG Towers, LLC

Ft Pierce Planning and Zoning
100 N. U.S. Highway 1
Fort Pierce, FL 34950

RE: RG Towers – Ft Pierce- Orange Ave Design Review Application Checklist (City Code of Ordinances 22-59)

Attached please find the following fr review and approval:

Signed Application Design Review

a. A survey -submitted with Development Review application

b. A site analysis study – please refer to the landscape plan submitted with Development Review application

c. A draft written narrative describing the design intent of the project, its goals and objectives and how it reflects the site analysis study results.

d. Context photographs of neighboring uses and architectural styles.

e. Photographs and/or drawings of architectural buildings or objects that serve as a precedent for the proposed building design. Models should be taken from local exemplary buildings, either existing or demolished. Documentation of such buildings is available in the city's planning department.
f. Photographs of all existing structures located on the property. If existing structures on the property are more than fifty (50) years of age, documentation of these structures with data from the Florida Master Site File form is also required.
g. Conceptual site plan- submitted with Development Review application

h. Landscape plan, at the same scale as the site plan - submitted with Development Review application

i. Accurate color rendering of proposed signs showing dimensions, type of lettering, materials and actual color samples that demonstrates cohesiveness with the project design.

j. Exterior elevations showing architectural character, external architectural features and streetscape of the proposed development, including materials, colors, shadow lines and landscaping- elevation submitted with Development Review application

k. Design review concurrent with conceptual development plan procedure according to subsection 22-58(e) is also available.

Submittal for Board Approval
a. A written narrative describing how the project conforms to administrative approval and design review guidelines of this section.
b. A final site plan meeting the requirements of section 22-58- submitted with Development Review application
c. A final site lighting plan that meets the requirements of subsection 22-58(d)(8)- NA

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d. A final landscape plan that meets the requirements of Article XII, Landscaping and Trees. - submitted with Development Review application
e. Final floor plans and elevation drawings (1/8" = 1'-0" minimum scale), as detailed under administrative approval, showing exterior building materials and colors with architectural sections and details to adequately describe the project. - submitted with Development Review application
f. A color board (11"x17" maximum) containing actual color samples of all exterior finishes, keyed to the elevations, and indicating the manufacturer's name and color designation- no color- galvanized steel

Please let me know if you have any questions.

Sincerely,

Holly Valdez
RG Towers, LLC
V.P. Operations

2141 Alternate A1A South, Suite 440
Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com

Michelle Franklin, CFA -- Saint Lucie County Property Appraiser -- All rights reserved.

Property Identification

Site Address: 2006 ORANGE AVE
Sec/Town/Range: 09/35S/40E
Map ID: 24/09N
Zoning: C3

Parcel ID: 2409-605-0008-000-4
Account #: 22018
Use Type: 1100
Jurisdiction: Fort Pierce



Ownership

Lesley Phillips
Abdel Jebbar Elbakkari
2006 Orange AVE
Fort Pierce, FL 34950

Legal Description

FLORIANA PARK BLK 3 LOTS 3, 4 AND 5-LESS S 15 FT FOR ST- (OR 3822-1761)

Total Areas

Finished/Under Air (SF):	2,160
Gross Area (SF):	2,430
Land Size (acres):	0.45
Land Size (SF):	19,656

Current Values

Just/Market Value:	$84,600
Assessed Value:	$84,600
Exemptions:	$0
Taxable Value:	$84,600

Taxes for this parcel: SLC Tax Collector's Office
Download TRIM for this parcel: Download PDF

Sale History

Date	Book/Page	Sale Code	Deed	Grantor	Price
Dec 24, 2015	3822 / 1761	0002	WD	Walker (TR) John C	$83,600
Nov 5, 2015	3805 / 1827	0111	CT	LeDain Marie M	$100
Jun 25, 2014	3652 / 2867	0137	WD	Walker (TR),John C	$120,000
Jun 3, 2014	3638 / 1302	0111	CT	LeDain,Marie M	$60,300
May 25, 2005	2255 / 2189	XX01	QC	Blanc,Jean C	$100

Apr 30, 2004	1971 / 3007	XX00	WD	Dunn Brothers Inc,	$120,000
Nov 1, 1981	0366 / 2466	XX00	CV		$125,000

Building Information (1 of 1)

Finished Area: 2,160 SF

Gross Total Area: 2,430 SF

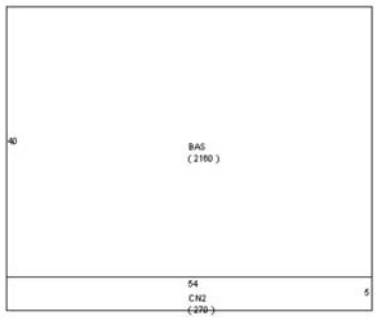
Exterior Data

View:	Roof Cover: Tar & Gravel	Roof Structure: Flat/Shed
Building Type: STRL	Year Built: 1957	Frame:
Grade: Y_C	Effective Year: 1970	Primary Wall: Conc Block
Story Height: 1 Story	No. Units: 2	Secondary Wall:

Interior Data

Bedrooms: 0	Electric: MAXIMUM	Primary Int Wall:
Full Baths: 0	Heat Type: FrcdHotAir	Avg Hgt/Floor: 0
Half Baths: 0	Heat Fuel: ELEC	Primary Floors: Vinyl Tiles
A/C %: 100%	Heated %: 100%	Sprinkled %: 0%





Sketch Area Legend

Sub Area	Description	Area	Fin. Area	Perimeter
BAS	BASE AREA	2160	2160	188
CN2	CANOPY	270	0	118

Special Features and Yard Items

Type	Qty	Units	Year Blt
CEMENT CURB	1	42	1970
ASP2 LOW	1	5409	1970

Current Year Values

Current Values Breakdown

Building:	$40,400
Land:	$44,200
Just/Market:	$84,600
Ag Credit:	$0
Save Our Homes or 10% Cap:	$0
Assessed:	$84,600
Exemption(s):	$0
Taxable:	$84,600

Current Year Exemption Value Breakdown

Tax Year	Grant Year	Code	Description	Amount

Current Year Special Assessment Breakdown

Start Year	AssessCode	Units	Description	Amount
1999	0041	4.9	Fort Pierce Stormwater Charge	$264.60

This does not necessarily represent the total Special Assessements that could be charged against this property. The total amount charged for special assessments is reflected on the most current tax statement and information is available with the SLC Tax Collector's Office.

Historical Values

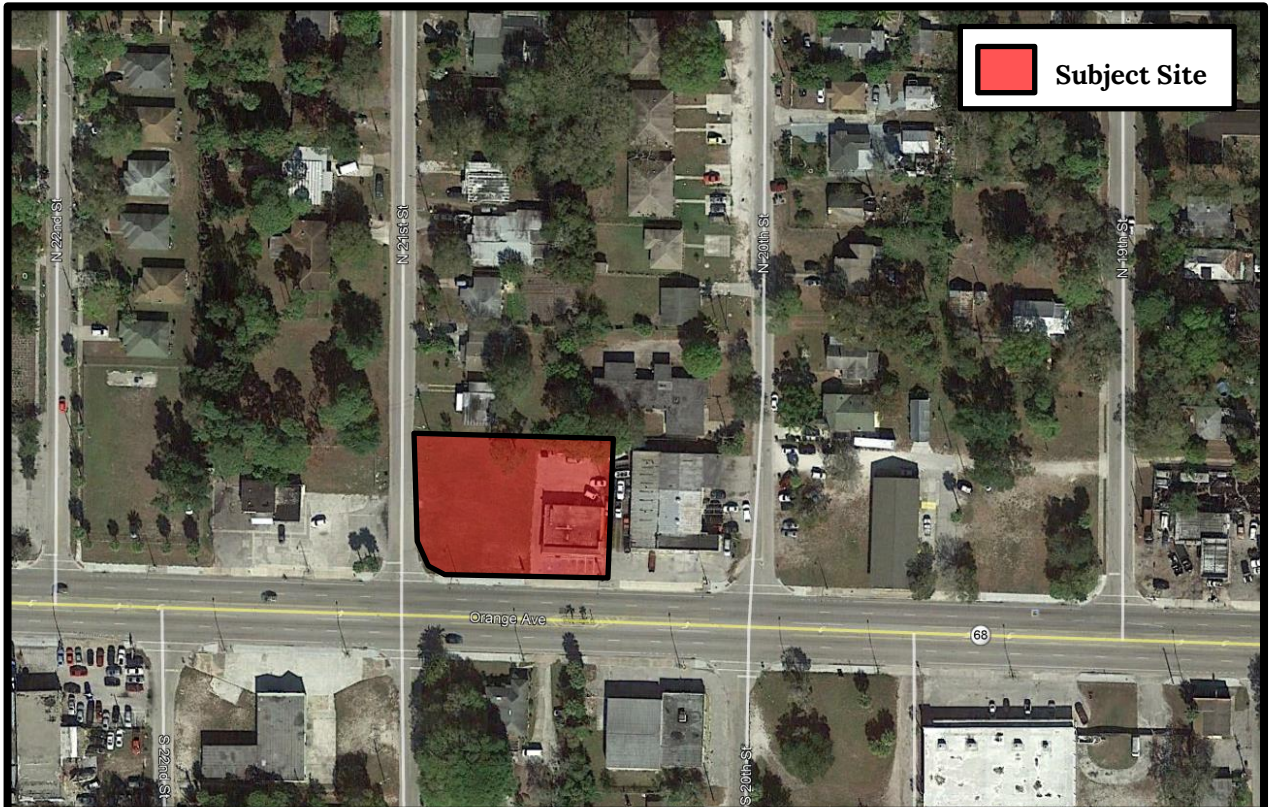
Year	Just/Market	Assessed	Exemptions	Taxable
2017	$84,600	$84,600	$0	$84,600
2016	$84,300	$84,300	$0	$84,300
2015	$105,200	$105,200	$0	$105,200

Permits

Number	Issue Date	Description	Amount	Fee
BP2006-90	Jan 25, 2006	Roof	$5,000	$50
F900001019	Aug 7, 1990	Roof	$900	$900
0900025541	Nov 16, 2007	Sprinkler System	$0	$50
BP11-1029	Jun 9, 2011	Electric	$104	$155
BP16-1588	Jun 23, 2016	Alterations/Remodeling	$4,000	$0

Notice: This does not necessarily represent all the permits for this property.
Click the following link to check for additional permit data in Fort Pierce

This information is believed to be correct at this time but it is subject to change and is not warranted.
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THE SUNRISE CITY
FORT PIERCE
Florida

Conditional Use & Design Review
Telecommunications Tower – 2006 Orange Ave
Aerial Map

N
W E
S



THE SUNRISE CITY
FORT PIERCE
Florida

Conditional Use & Design Review
Telecommunications Tower – 2006 Orange Ave
Zoning Map

N
W E
S

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

October 18, 2018

RG Towers, LLC
2141 Alt A1A Suite 440
Jupiter, FL 33477

SUBJECT: **RG Towers – 2006 Orange Avenue**
TECHNICAL REVIEW PROJECT: # 18-42700001
CONDITIONAL USE WITH NEW CONSTRUCTION

Comments:

1. Revise the Landscape plan to add shrubs to the south and west side of the fence as well as along the north and south perimeter of the drive way.
2. Provide an irrigation plan that will show continued daily watering of all vegetation & plants on site.
3. Provide a 5 foot wide sidewalk along 21st street. The sidewalk should extend the length of the parent tract.
4. Indicate that the tower will have a zero (0) fall radius on the site plan
5. Provide a detailed rendering of what the stealth tower will look like on the site along with all site improvements including the fence, landscaping, and so on.
6. The tower itself should be a neutral color

Advisory Comments

- Recommendations for Multi Modal Improvements
  - Dedication of land for a bus shelter
  - Donations towards construction of shelter (shelter can incorporate public art) and related improvements
  - Installation of a bike rack
  - Installation of a bike "fix it" station
  - Explore with St. Lucie County the potential for a bus bay for loading and unloading.

Please provide a written response to all TRC comments and provide submittal (10 copies) of all new materials by October 29, 2018 to advance to the November Planning Board. The presented review is specific to the proposed facility. Please contact me should you have any questions regarding the project at (772) 467-3742 or by e-mail: bcreagan@city-ftpierce.com.

Sincerely,

Brandon Creagan, LEED Green Associate
Planner

THE SUNRISE CITY
FORT PIERCE
Florida
ENGINEERING DEPARTMENT

RECEIVED
OCT 17 2018
CITY OF FORT PIERCE
PLANNING & ZONING

To : Brandon Creagan, Planner

From : John R. Andrews, P.E., City Engineer

Re : RG Towers Conditional Use – 2006 Orange Avenue
TRC No. 18-42700001

Date : October 17, 2018

This is to advise you that we have completed the review of the following documents as received by this office on October 4, 2018:

- [x] Conditional Use Application
- [ ] Test Reports & Related Documents
- [ ] Record Drawings
- [ ] Clearances from all applicable Local, State and Federal Agencies
- [ ] Construction Drawings
- [ ] Executed Construction Contract
- [ ] Permits from applicable Local, State & Federal Agencies

Based on our reviews and appropriate site final inspection, we

- [ ] Do Not Recommend
- [x] Recommend

- [x] CU Conditional Approval
- [ ] Building Permit
- [ ] C/O

Developer, Owner, Engineer, Contractor and other members of the Development Team must be aware, the above recommendation is based only on the construction requirements of the engineering plans and other engineering documentation approved by this department. The Development Team shall be responsible for the compliance with other City department requirements and all approved documents, as well as Local, State and Federal regulations. The development requirements for this project may necessitate additional construction requirements that are not subject to this department's review for approval.

- [x] See attached for conditions of approval

100 NORTH US 1, FORT PIERCE, FLORIDA 34950 • CITYOFFORTPIERCE.COM • TEL: 772.467.3000 • FAX: 772.460.6847

ENGINEERING COMMENTS:

1. Provide a 5' wide concrete sidewalk along 21st Street. The sidewalk should extend the length of the parent tract.
2. Provide a note on the Site Plan that all construction will comply with Sections 17 and 22 of the City of Fort Pierce Code of Ordinances.

JRA/TST/tst

100 NORTH US 1, FORT PIERCE, FLORIDA 34950 ▪ CITYOFFORTPIERCE.COM ▪ TEL: 772.467.3000 ▪ FAX: 772.460.6847

Project: RG TOWERS

Subject: Review Comments
To: Brandon Creagan
From: Rod Reed, County Surveyor
PW-Engineering Division
Date October 16th, 2018

All comments are based on the Standards of Practice per 5J-17.050 thru 5J-17.052

SURVEY:

1) All previous comments have been addressed. I have no other comments.

Please provide a written response to all comments

Rod Reed, County Surveyor
St. Lucie County, Fl.
2300 Virginia Avenue
Ft. Pierce, Fl. 34982-5652
www.stlucieco.org
Ph. (772) 462-1721
E-mail reedr@stlucieco.org

ST. LUCIE COUNTY FIRE DISTRICT
FIRE PREVENTION BUREAU
Office of the Fire Marshal

Telephone: **(772) 621-3322**
Fax: **(772) 621-3604**

BUREAU OF FIRE PREVENTION

SITE PLAN REVIEW

TO: Site Plan Applicant

SITE PLAN: RG Towers-2006 Orange Avenue #18-42700001

REVIEW DATE: October 15, 2018

PLANNER: BRANDON CREAGAN

REVIEWED BY: Captain Paul Langel

Site Plan Approved: _____

Site Plan Approved with conditions: ___X_____

Site Plan Approval withheld pending written acknowledgement of conditions: _____

Site Plan Rejected: _____

The Following Revisions Are Necessary:

1. **Please submit a completed application for Development/Site Plan Review (St. Lucie County Fire District Development & Site Plan Review Application). This form is available on-line athttp://www.slcfd.com/permits.htm**
2. **Fire District review fees are due at the time of submittal. An abbreviated fee schedule is included on the application form.**
3. **Please provide an electronic copy of the Site Plan (pdf format)**
4. **A separate review and permit is required for Underground Fire Mains connected to standpipes or sprinkler systems.**

TO: Brandon Creagan, LEED, Planner

FROM: Kori Benton, Senior Planner

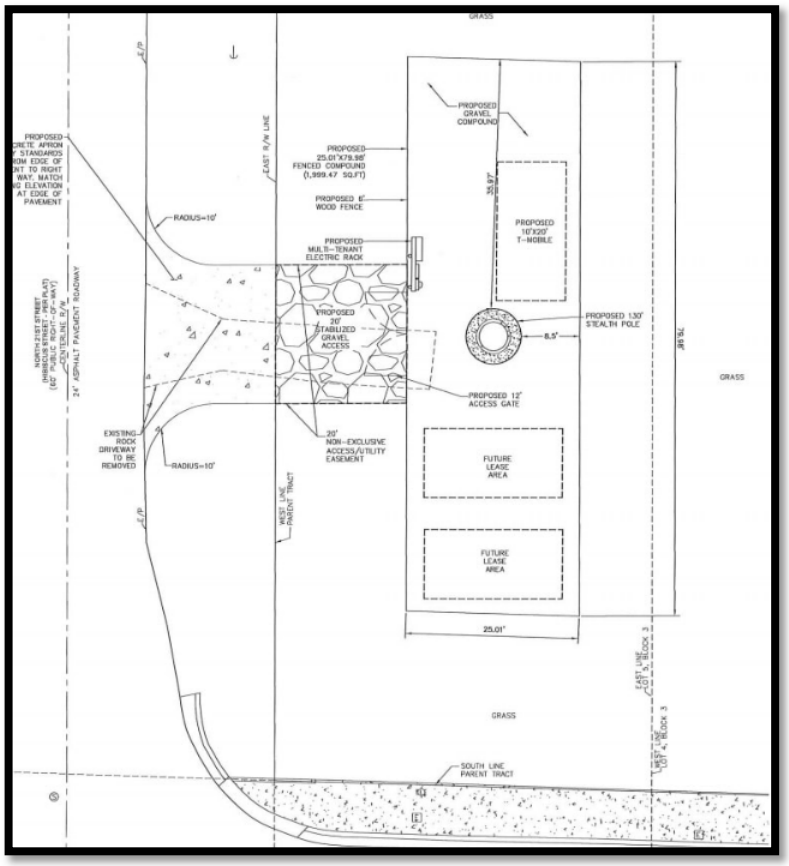
DATE: October 18, 2018

SUBJECT: **Conditional Use – RG Towers – 2006 Orange Avenue**
Technical Review Project# 18-42700001

The St. Lucie County Planning & Development Services Department has completed a review of the October 4, 2018 distribution of Technical Review Project# 18-42700001.

Background

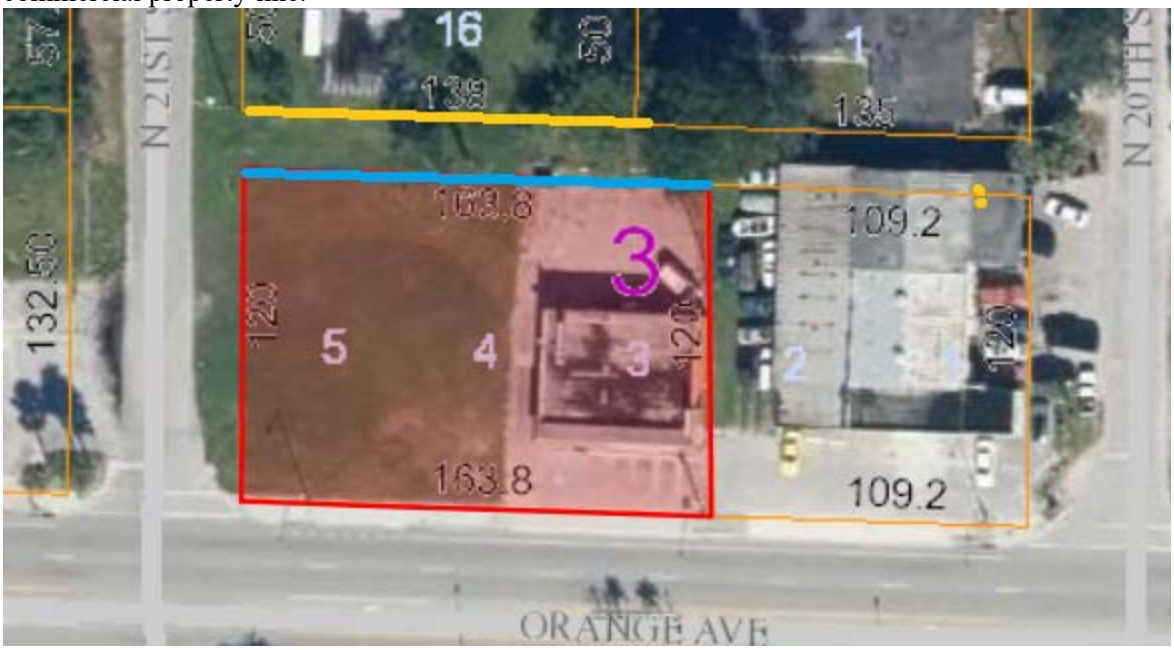
The application proposes a Conditional Use with New Construction located at 2006 Orange Avenue, a 0.45 acre site. The applicant is seeking construction of a "stealth pole" telecommunications tower, proposed at 130 feet in height. The parcel is zoned C-3, General Commercial and a Future Land –Use of GC, General Commercial. The Parcel ID for the property is 2409-605-0008-000-4. The exhibit below provides general site plan detail utilized for review:



Review Comments

1. Will the applicant be required to extend a sidewalk along N 21st Street?

2. Doe the proposed driveway conform to City/FDOT corner clearance standards for a commercial driveway? Should the applicant be required to improve a portion of the alley to provide access to the site as the use shouldn't generate significant traffic activities? Further, if a driveway advances on N 21st Street, shouldn't access be extended to the commercial plaza on-site to improve access, parking, etc. for this commercial site sought for new development activities? The proposed design appears to require vehicles to back into the adjacent right-of-way.
3. Does the proposed fence and landscaping comply with the City's Design Review Guidelines as this is a primary entry corridor?
4. The plan does not reflect buffering of the commercial site (entire parcel) from adjacent residentially zoned and occupied property. The applicant is encouraged to consider buffering along the entire commercial property line.



5. The plan does not appear to demonstrate landscape buffering of vehicular use areas, whereas this is encouraged, where not impacting a clear vision area.

Please contact me at 772-462-2518 if you have any questions or would like to discuss the presented comments.

RG Towers, LLC

Ft Pierce Planning and Zoning
100 N. U.S. Highway 1
Fort Pierce, FL 34950

10/26/18

RE: TRC Comments Response RG Towers – Ft Pierce- 2006 Orange Ave

Attached please find the following documents **(one original and nine copies and one CD)** to complete our response for a new communication tower; Technical Review Project #18-42700001

(1) Written Response
(2) Photo Simulations
(3) (10) 24 x 36 Site and landscape plan- revised

We look forward to being heard by Planning and Zoning on November 13, 2018 and on December 17 for the Commission Hearing.

Please let me know if you have any questions.

Sincerely,

Holly Valdez
RG Towers, LLC
V.P. Operations

2141 Alternate A1A South, Suite 440
Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com

Ft Pierce Planning and Zoning
100 N. U.S. Highway 1
Fort Pierce, FL 34950
Attn:
Brandon Creagan

10/26/18

RE: TRC Comments Response RG Towers – Ft Pierce- 2006 Orange Ave
Technical Review Project #18-42700001 Conditional Use with New Construction

Comments 10/18/18

1 **Revise the landscape plan to add shrubs to the south and west side of the fence as well as along the north and south perimeter of the driveway**
We have added the suggested ground cover to the areas listed keeping in mind that the south and west sides of the fence will remain mostly clear of vegetation for the requested artwork to be displayed

2 **Provide an irrigation plan that will show continued daily watering of all vegetation and plants on site**
On page L-1 of the landscape plans there is a note #8 as follows;

> 8. ALL NEW AND TRANSPLANTED PLANT MATERIAL SHALL BE IRRIGATED BY TYING INTO THE EXISTING AUTOMATIC UNDERGROUND IRRIGATION SYSTEM.

3 **Provide a 5' foot wide sidewalk along 21st St. The sidewalk should extend the length of the parent tract**
The sidewalk has been added to the site plan however per discussions we suggested that RG Towers pay a contribution to the City in lieu of installing the sidewalk.

4 **Indicate that the tower will have a zero (0) fall radius on the site plan**
The note has been added under tower elevation notes on site plan page 2/3

5 **Provide a detailed rendering of what the stealth tower will look like on the site along with all site improvements including the fence, landscaping and so on.**
Photo simulations have been provided showing a stealth unipole of 130' with a galvanized steel finish

6 **The tower itself should be a neutral color**
Galvanized steel is considered by tower manufacturers as a neutral color as it blends with the natural sky. The pole can be painted if the Commission so decides.

2141 Alternate A1A South, Suite 440
Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com

Advisory Comments

Recommendations for Multi Modal Improvements

- **Dedication of land for a bus shelter**
- **Donations towards construction of shelter (shelter can incorporate public art) and related improvements**
- **Installation of a bike rack**
- **Installation of a bike "fix it" station**
- **Explore with St Lucie County the potential for a bus bay for loading and unloading**

As these types of improvements are not our core business interest we would like to make a capital contribution to the City in lieu of these multi modal improvements. We are awaiting the figure from Planning however we do have limitations.

Please let me know if you have any questions.

Sincerely,

Holly Valdez
RG Towers, LLC
V.P. Operations

Ft Pierce Planning and Zoning
100 N. U.S. Highway 1
Fort Pierce, FL 34950
Attn: John R. Andrews. P.E. City Engineer

10/26/18

ENGINEERING COMMENTS: 10/17/18

1. **Provide a 5' wide concrete sidewalk along 21st Street. The sidewalk should extend the length of the parent tract.**
   The sidewalk has been added to the site plan however per discussions we suggested that RG Towers pay a contribution to the City in lieu of installing the sidewalk

2. **Provide a note on the Site Plan that all construction will comply with Sections 17 and 22 of the City of Fort Pierce Code of Ordinances.**
   Note has been put on the site plan

Please let me know if you have any questions.

Sincerely,

Holly Valdez
RG Towers, LLC
V.P. Operations

2141 Alternate A1A South, Suite 440
Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com

Ft Pierce Planning and Zoning
100 N. U.S. Highway 1
Fort Pierce, FL 34950
Attn: Paul Thomas – Building Official

10/26/18

Comments

1 **Building Official or his representative has no comment at the time of this meeting, but reserves submission of comments upon completion of the official plan review.**
Understood

2 **Pre-construction meeting with the City's Building Department is requested.**
Understood

3 **Any construction will need to meet the requirements of the Florida Building Code 61h Edition.**
Understood

Please let me know if you have any questions.

Sincerely,

Holly Valdez
RG Towers, LLC
V.P. Operations

2141 Alternate A1A South, Suite 440
Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com

Ft Pierce Planning and Zoning
100 N. U.S. Highway 1
Fort Pierce, FL 34950
Attn: Captain Paul Langel, Fire Captain

10/26/18

Comments 10/15/18

The Following Revisions Are Necessary:

1. **Please submit a completed application for Development/Site Plan Review (St. Lucie County Fire District Development & Site Plan Review Application). This form is available on-line at http://www.slcfd.com/permits.htm**

2. **Fire District review fees are due at the time of submittal. An abbreviated fee schedule is included on the application form.**

3. **Please provide an electronic copy of the Site Plan (pdf format)**

4. **A separate review and permit is required for Underground Fire Mains connected to standpipes or sprinkler systems.**

Please see attached form and payment

Please let me know if you have any questions.

Sincerely,

Holly Valdez
RG Towers, LLC
V.P. Operations

2141 Alternate A1A South, Suite 440
Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com

Ft Pierce Planning and Zoning
100 N. U.S. Highway 1
Fort Pierce, FL 34950
Attn: Kori Benton

10/26/18

Review Comments 10/18/18

1. **Will the applicant be required to extend a sidewalk along N 21st Street?**
   The sidewalk has been added to the site plan however per discussions we suggested that RG Towers pay a contribution to the City in lieu of installing the sidewalk

2. **Doe the proposed driveway conform to City/FDOT corner clearance standards for a commercial driveway? Should the applicant be required to improve a portion of the alley to provide access to the site as the use shouldn't generate significant traffic activities? Further, if a driveway advances on N 21st Street, shouldn't access be extended to the commercial plaza on-site to improve access, parking, etc. for this commercial site sought for new development activities? The proposed design appears to require vehicles to back into the adjacent right-of-way.**
   Driveway will conform to all standards. Access via the alleyway was discouraged as the proposed development is proposing access from 21st St in order to stay further away from residential area. This is an unmanned facility for which there will be very minimal traffic

3. **Does the proposed fence and landscaping comply with the City's Design Review Guidelines as this is a primary entry corridor?**
   Fence and landscaping complies with City's review guidelines and landscaping was a custom design dictated by the City leaving blank fence space for artwork along the south and west sides of the development

4. **The plan does not reflect buffering of the commercial site (entire parcel) from adjacent residentially zoned and occupied property. The applicant is encouraged to consider buffering along the entire commercial property line.**
   The lease area of the proposed development is 25' wide east to west and along that edge we are proposing (7) podocarpus 7 gal 36" at 6' high and (1) Southern Live Oak 30 gal 3" caliper 10' high in order to adequately buffer he development per the code requirements

5 **The plan does not appear to demonstrate landscape buffering on vehicular use areas, whereas this is encouraged, where not impacting a clear vision area.**
   Non vision impacting landscaping has been added around vehicular areas

Please let me know if you have any questions.

Sincerely,

Holly Valdez
RG Towers, LLC
V.P. Operations

2141 Alternate A1A South, Suite 440
Jupiter, FL 33477
Phone: 561-748-0302 Fax: 561-748-0303 Web: www.rgtowers.com

D R A F T

CITY OF FORT PIERCE

PLANNING BOARD

Planning Board Minutes

OF THE REGULAR MEETING OF THE FORT PIERCE CITY PLANNING BOARD HELD ON TUESDAY, NOVEMBER 14, 2018, IN FORT PIERCE CITY HALL, COMMISSION CHAMBERS, 100 NORTH US HIGHWAY 1, FORT PIERCE, FLORIDA.

1. CALL TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ROLL CALL

Present: **Tim O'Connell**; **Jovona Parker**; **Michael Broderick**; **Gloria Johnson-Scott**; **Bob Burdge**; **Brian Paul**; **Frank Creyaufmiller**, **Chairman**

Staff Present: **Benjamin Bryan**, **Interim City Attorney**
Rebecca Grohall, **Planning Director**
Rebeca Guerra, **Assistant Planning Director**
Brandon Creagan, **Planner**
Alicia Rosenthal, **Executive Assistant**

4. CONSIDERATION OF ABSENCES

All members were in attendance.

5. APPROVAL OF MINUTES

a. Minutes from the October 9, 2018 meeting

Motion was made by Michael Broderick, and seconded by Tim O'Connell to approve the minutes from the October 9, 2018 meeting.

AYE: **Michael Broderick**, **Gloria Johnson-Scott**, **Bob Burdge**, **Brian Paul**, **Tim O'Connell**, **Jovona Parker**, **Chairman Frank Creyaufmiller**

Passed

6. **HEARING OF THE LOCAL PLANNING AGENCY**

a. **Future Land Use Map Amendment - We Buy Scrap - 1237 Grose Road and 3340 Enterprise Road**

Mr. Creagan gave an overview of the application and answered questions from the Board on the zoning classification and use from 2007.

Jim Frogner, Agent for the Property Owner and We Buy Scrap, stated there was an inconsistency with the land use and zoning and they are trying to get consistent with the Comprehensive Plan.

Motion was made by Tim O'Connell, and seconded by Michael Broderick to forward a recommendation of approval to the City Commission.

AYE: **Gloria Johnson-Scott**, **Bob Burdge**, **Brian Paul**, **Tim O'Connell**, **Jovona Parker**, **Michael Broderick**, **Chairman Frank Creyaufmiller**

Passed

7. NEW BUSINESS

a. **Conditional Use - RG Towers - 2006 Orange Avenue**

Mr. Creagan gave an overview of the application and answered questions from the Board on the bus shelter, concrete wall, landscaping, prior submittal, original project rejection by City Commission and the Peacock Arts District boundaries.

Holly Valdez, Vice-President of Operations for RG Towers, explained the last proposal was for a standard 150 foot monopole and this proposal is for a 130 foot stealth tower. Ms Valdez answered questions from the Board on landscaping, leased space size and irrigation.

Scott Richard, CEO of RG Towers, explained it is costly to go from a monopole to a stealth tower and RG Towers would like to give a flat contribution of $10,000 to the city, instead of installing a bus shelter and bike rack at another location. Mr. Richards stated they would also like mutual indemnification on the mural painting for liability purposes.

Board discussion ensued on painting a mural on a concrete wall versus a board on board fence.

Ms. Grohall informed the Board that the City Commission talked about a more cohesive and palatable look for the Lincoln Park area and Peacock Arts District.

Chairman Creyaufmiller said the cell tower benefits the community by providing better communicaion and benefit of services. Chairman Creyaufmiller stated that putting the bike fix it station and bus shelter at different locations is unreasonable and the applicant is incurring additional cost increases due to the stealth tower.

Ms. Parker stated she agrees with painting the mural on a wall and the beautification going on in the Lincoln Park area.

Mr. Burdge stated he hopes Fort Pierce is a business friendly city and he said the financial contribution from the applicant is not necessary.

Ms. Grohall stated the sidewalks are a requirement of site plans and the City Commission has the final option whether to have the applicant build a sidewalk or have the city provide a sidewalk connection.

Ms. Johnson Scott was concerned that the community is not gaining from the sidewalks, bus shelter and bike fix it station since it will not being located at the site.

Mr. Broderick suggested to keep improvements to the site and strike conditions 2 and 3 since they are not applicable to the site. He also suggested to diminish some of the landscaping to see the mural.

Scott Richards, CEO RG Towers, stated the cell tower will allow the community to use cell phones in buildings, have better connectivity, and police cameras can be put on the tower for life safety.

Mr. Burdge stated he would like to see the concrete wall around the entire property.

Ms. Grohall stated she would work with the applicant to come up with better landscaping options.

After the vote, Ms. Parker explained she voted no because of the impact to the neighborhood and the proximity to the Lincoln Park revitalization.

Ms. Johnson Scott stated she voted no because the sidewalk was not included in the motion.

Motion was made by Bob Burdge, and seconded by Michael Broderick to forward a recommendation of approval for the Conditional Use with New Construction & Design Review to the City Commission with the following condition:

1. The applicant sign the City's Mural Agreement & coordinate with the Grants Administration Division regarding their mural program for the proposed public art space on a 6 foot concrete fence before the City Commission meeting and that the landscaping be adjusted in regards to the concrete fence versus the wooden fence.

AYE: **Bob Burdge**, **Brian Paul**, **Tim O'Connell**, **Michael Broderick**, **Chairman Frank Creyaufmiller**

NAY: **Jovona Parker**, **Gloria Johnson-Scott**

Passed

b. **Conditional Use - Florida Nexus Park - 2765 Peters Road**

Mr. Creagan gave an overview of the application and answered questions from the Board on the vacancies and current tenants at Florida Nexus Park.

Harry Zuker, Managing Partner of the Property, stated they have battled greatly to keep 60% occupancy and he would like to broaden the horizon for tenants and still keep the property as a corporate business park.

Motion was made by Michael Broderick, and seconded by Jovona Parker to forward a recommendation to approve the request with the following conditions:

1) Please ensure separation of uses; particularly safeguarding the participants of Police Athletic League from the fabrication/light industrial uses.

2) No outdoor storage of materials.

AYE: **Brian Paul**, **Tim O'Connell**, **Jovona Parker**, **Michael Broderick**, **Gloria Johnson-Scott**, **Bob Burdge**, **Chairman Frank Creyaufmiller**

Passed

8. BOARD COMMENTS

The Board discussed why it is important to know when a Board member votes no on a project. Ms. Grohall stated it informs City Commission, benefits the staff and the applicant.

Ms Johnson-Scott ask the outcome of the agreement search from the Lyman's for the Einstein project. Ms. Grohall stated an exhaustive search turned up no agreement.

Chairman Creyaufmiller explained the procedure on why the vote was made on the secretary at the last meeting.

Ms. Grohall introduced the Planning department's new Assistant Planning Director, Rebeca Guerra.

Mr. Burdge asked staff for an update on the new design for the Conditional Use and Rezoning signs.

Chairman Creyaufmiller ask for an updated Board member list be sent to all Planning Board members.

9. ADJOURNMENT

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

PUBLIC NOTIFICATION CERTIFICATION

PROJECT NAME: RG Towers , Telecommunications Tower

NOTICES PROVIDED PURSUANT TO: 22-143

NOTICE BY NEWSPAPER: 12-2-18

NOTICE BY MAIL: 11-5-18

NOTICE BY SIGNS: 11-29-18

VERIFIED BY: Brandon Creagan **TITLE:** Planner

SIGNATURE: **DATE:** 3/19/18

City Commission Regular Meeting **12.e.**

Meeting Date: 12/17/2018

Re: Demolition Hearing - 1705 N 27th Street

Submitted For: Peggy Arraiz, Code Compliance Manager, Code Enforcement

---

SUBJECT:

Resolution No. 18-R62 and Quasi-Judicial Hearing – A hearing to allow the owners and/or parties of interest in the property identified as 1705 N 27th Street to show cause why the structure located on the premises should not be condemned and demolished.

SUMMARY:

- Property Maintenance Inspection Report completed by Shaun Coss, Building Department Coordinator. Due to major roof damage, recommended demolition if no action by owner to repair roof.
- All correspondence with owner of record is being returned unclaimed.
- The building has become a target for vandals.

RECOMMENDATION:

Staff recommends the City Commission approve Resolution No. 18-R62 declaring that the structure located at 1705 N 27th Street be condemned and demolished in accordance with the Rules of Procedure for Condemnation and Demolition as adopted by the City Commission

ALTERNATIVES:

Amend Resolution No. 18-R62
Deny Resolution No. 18-R62

RESPONSIBLE STAFF:

Margaret M. Arraiz, Code Compliance Manager

COORDINATED WITH:

Shaun Coss, Building Department Coordinator
City Attorney's Office

Fiscal Impact

Budgeted Y/N: Yes

Fiscal Year: 2019

OTHER INFORMATION:

The cost of demolition, if required to be conducted by the City, is $6,195.00 and it will be funded by the Clean & Safe Initiative and shall become a lien against the property.

Attachments

Resolution No. 18-R62

Property Maintenance Inspection Report
Demolition Estimate
Certified Mail Documents
Affidavit of Unsafe Building
Affidavit of Mailing
Posting
June 2018 photos
October 2018 photos

Form Review

Inbox	Reviewed By	Date
City Manager	Peggy Arraiz	12/05/2018 04:39 PM
City Manager	Nick Mimms	12/12/2018 11:46 AM

Form Started By: Peggy Arraiz Started On: 12/05/2018 04:09 PM
Final Approval Date: 12/12/2018

RESOLUTION NO. 18-R62

A RESOLUTION DETERMINING THAT A CERTAIN BUILDING OR STRUCTURE LOCATED AT **1705 N 27TH ST** IN FORT PIERCE, FLORIDA IS UNSAFE AND A NUISANCE THAT CONSTITUTES A MENACE TO THE BUSINESS, HEALTH AND SAFETY OF THE COMMUNITY; AND THAT SAID BUILDING OR STRUCTURE **SHALL BE CONDEMNED AND DEMOLISHED**; DECLARING THE PARTIES OF INTEREST WERE PROVIDED THE OPPORTUNITY TO BE HEARD AND ARE RESPONSIBLE FOR THE REMOVAL OF THE BUILDING OR STRUCTURE; AND ORDERING THE CITY OF FORT PIERCE TO AFFECT SUCH REMOVAL AND PLACE A LIEN UPON THE PROPERTY IDENTIFIED IF COMPLETED BY THE CITY OF FORT PIERCE; PROVIDING FOR APPEAL; PROVIDING FOR NOTICE TO ALL PARTIES; AND PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, The Charter for the City of Fort Pierce, Florida provides the City Commission the authority to declare a building or structure unsafe and require its removal or destruction; and

WHEREAS, a public hearing was held before the City Commission on this date, December 17, 2018, to determine if the building or structure located at 1705 N 27TH ST is unsafe and a nuisance that constitutes a menace to the business, health and safety of the community; and

WHEREAS, all parties with interest to the property were properly provided notice of the hearing and given the opportunity to show cause why the structure should not be condemned; and.

NOW, THEREFORE, BE IT RESOLVED by the City Commission of the City of Fort Pierce, Florida;

SECTION 1. That the City Commission determines that the building or structure located on the said lot, tract, or parcel of land within the City of Fort Pierce, St. Lucie County, Florida, described as follows:

1705 N 27TH ST
DUKE S/D S 65 FT OF LOTS 1 AND 2 (OR 294-2852)
2405-503-0002-000/7

Is unsafe and a nuisance that constitutes a menace to the business, health and safety of the community and shall be condemned in accordance with the Charter of the City of Fort Pierce and order its removal by demolition in accordance with the time frames and regulations outlined in the Rules of Procedure for Condemnation and Demolition as adopted by the City Commission.

SECTION 2. The owners, agents, or any person, firm or corporation having a lien on, or interest in, said building or structure, which lien or interest is a matter of record in the public records of St. Lucie County, Florida, were provided the opportunity to be heard and to show cause why said building or structure should not be condemned and its removal or destruction required.

JOHN HENRY BOUIE
927 SW 106 PL
MICANOPY, FL, 32667

SECTION 3. The hereinbefore named persons, firms, or corporations are responsible for the removal or demolition of the building or structure and should such parties fail to demolish the building or structure as required by order of the City Commission, the City of Fort Pierce shall provide for its removal or destruction, the cost of which shall constitute a lien upon said property.

SECTION 4. The hereinbefore named persons, firms, or corporations shall have the right to appeal this resolution to the Circuit Court of St. Lucie County, within thirty (30) days of the effective date of this resolution pursuant to the Florida Rules of Appellate Procedure.

SECTION 5. A certified copy of this resolution shall be mailed by registered or certified mail to the hereinbefore named persons, firms, or corporations, by the City Clerk for the City of Fort Pierce, Florida.

SECTION 6. This resolution shall be effective immediately upon final adoption by the Commission.

IN WITNESS HEREWITH, we hereunto set our hands and affix the Official Seal of the City of Fort Pierce, Florida, this _____ day of _____, 20____.

_____
Linda Hudson, Mayor

ATTEST:

_____
Linda Cox, City Clerk

(SEAL)

Approved as to Form
And Correctness:

_____
James M. Messer, Esq.
City Attorney

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FORT PIERCE
CODE ENFORCEMENT
Florida

Property Maintenance Inspection Report

Property Address	1705 N 27th St.	Parcel ID #	2405-503-0002-000-7		
House Color	Tan	# of Units		Historic?	No
Type of Structure	Single Family Residence	Building Occupied	No	Time to Comply	30 days

Action to be take - Select all that apply

- (●) Unsafe Building - Rehab
- (●) Unsafe Building - Demo
- ( ) Nuisance Abatement - Board up

Inspector	Shaun Coss	Date	06/15/2018	Property Posted?	No

Comments: Major roof damage. Opportunity to rehab, if not done recommendation is demo.

- ( ) Active Code Cases
- ( ) NONE
- ( ) Active Building Permit
- ( ) NONE
- ( ) Lis Pendens check
- ( ) Rehab letter sent
- ( ) Demo letter sent
- ( ) Nuisance letter sent
- ( ) Title search done
- ( ) Affidavit recorded

Contact Information [Add new contact]

Contact Info

Comments

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[X] Unsafe structures

[X] 108.1.1 - Unsafe structure

- [ ] Lacks adequate protection from fire
- [X] Contains unsafe equipment
- [X] All or part of building is likely to collapse

[X] 108.1.2 - Unsafe equipment

- [ ] Unsafe boiler / heating equipment
- [X] Unsafe electrical wiring / device
- [ ] Unsafe elevator / moving stairway
- [ ] Flammable liquid containers within structure
- [ ] Other unsafe equipment

[X] 108.1.3 - Structure unfit for human occupancy

- [X] Unsafe or unlawful
- [X] Unsanitary / contains filth / contamination
- [ ] vermin or rat infested
- [X] lacks illumination
- [ ] Location of structure constitutes a hazard
- [ ] lacks ventilation
- [X] lacks heat
- [X] lacks maintenance
- [X] lacks sanitary facilities

[ ] 108.1.4 - Unlawful structure

- [ ] Occupied by more persons than permitted
- [ ] Erected, altered or occupied contrary to law

[X] 108.1.5 - Dangerous structure or premises

- [ ] (1) Any door, aisle, passageway, stairway, or exit that does not comply to requirements for exiting the building
- [ ] (2) The walking surface of means of egress is so warped, worn, loose, torn or otherwise unsafe to provide means of egress.
- [X] (3) Any portion of a structure damaged by fire, wind, flood, earthquake, deterioration, neglect, abandonment, vandalism or any other cause that it is likely to partially or completely collapse, or to become detached or dislodged.
- [ ] (4) Any portion of a building, appurtenance or ornamentations that is not of sufficient strength or stability, or is not so anchored or attached to be capable of resisting natural or artificial loads of one and one-half the original designed value.
- [ ] (5) The structure or part of structure because of dilapidation, deterioration, decay, faulty construction, the removal or movement of ground necessary for support or any other reason is likely to collapse or under pining is likely to fail or give way.
- [ ] (6) The building or structure, or any portion thereof, is clearly unsafe for its use and occupancy.
- [ ] (7) The structure is neglected, damaged, dilapidated, unsecured or abandoned so as to become an attractive nuisance.
- [ ] (8) Any structure that exists or has been maintained in violation of any specific requirement or prohibition to such an extent as to present either a substantial risk of fire, building collapse or any other threat to life and safety.
- [ ] (9) Any structure intended to be used for dwelling purposes, due to inadequate maintenance, dilapidation ,decay ,damage, faulty construction, inadequate light, ventilation, mechanical or plumbing system is determined to be unsanitary, unfit for human habitation or in such a condition that it is likely to cause sickness or disease.
- [ ] (10) Any structure, due to lack of sufficient fire resistance rated construction, fire protection systems, electrical system, fuel connections, mechanical system, plumbing system or other cause is determined to be a threat to life or health.
- [ ] (11) Any portion of a building remains on a site after the demolition of the structure or whenever any building or structure is abandoned so as to constitute such building or portion thereof as an attractive nuisance or hazard to the public.

Comments: Roof collapsing, outside ele panel no proper cover, exposed to water.

[ ] Section 302 - Exterior property areas

[ ] Section 303 - Swimming Pools, Spas and Hot Tubs

[X] Section 304 - Exterior Structure

[X] 304.1 - General - The exterior of a structure shall be maintained in good repair, structurally sound and sanitary so as not to pose a threat to the public health, safety and welfare.

[X] 304.1.1 - Unsafe conditions - The following conditions shall be determined as unsafe and shall be repaired or replaced to comply with the IBC or the IEBC as required for existing buildings.

- [ ] 1. The nominal strength of any structural member is exceeded by nominal loads, the load effects or the required strength.

☐	2. The anchorage of the floor or roof to walls or columns, and of walls and columns to foundations is not capable of resisting all nominal loads or load effects.
☐	3. Structures or components thereof that have reached their limit state.
☐	4. Siding and masonry joints are not maintained, weather resistant or water tight.
☒	5. Structural members that have evidence of deterioration or cannot safety support all nominal loads and load effects.
☐	6. Foundation systems that are not firmly supported by footings, are not plumb without cracks and breaks and are not properly anchored or cannot support all nominal loads and resisting all load effects.
☐	7. Exterior walls that are not anchored to supporting elements or are not plumb or free from holes, cracks, breaks or loose or rotting materials, are not properly anchored and not able of supporting all nominal loads and resisting load effects.
☒	8. Roofing that have defects that admit rain, roof surfaces with inadequate drainage, or any portion that is not in good repair with signs of deterioration, fatigue or without property anchorage and incapable of supporting all nominal loads.
☐	9. Flooring with defects that affect serviceability or that show signs of deterioration or fatigue, are not properly anchored or are incapable of supporting all nominal loads and resisting all load effects.
☐	10. Veneer, cornices, belt courses, corbels, trim , wall facings not properly anchored or that are anchored with connections not capable of supporting all nominal loads and resisting load effects.
☐	11. Overhang extensions or projections including trash chutes, canopies, marquees, signs, awnings, fire escapes, standpipes and exhaust ducts not properly anchored or anchored with connections unable to support all nominal loads.
☐	12. Exterior stairs, decks, porches, balconies and all attachments such as guards and handrails are not structurally sound, not properly anchored or anchored with connections unable to support all nominal loads and resisting all load effects.
☐	13. Chimneys, cooling towers, smokestacks not properly anchored or that are anchored with connections unable to support all nominal loads and resisting all load effects.
☐	304.2 - Protective Treatment - Exterior surfaces, including doors, door and window frames, cornices, porches, trim, balconies, decks and fences shall be maintained in good condition. Exterior surfaces shall be protected from elements and decay by painting or other protective treatment. Peeling, flaking and chipped paint shall be eliminated and surfaces repainted. Siding and masonry joints shall be maintained weather resistant and water tight. Metal surfaces subject to rust or corrosion shall be coated to inhibit such rust and corrosion.
☐	304.3 - Address identification - Buildings shall be provided with approved address identification that are legible and placed to be visible from the street fronting the property. They must contrast with their background, be numerical and a minimum of 4" tall.
☐	304.4 - Structural members - Structural members shall be maintained free from deterioration, and shall be capable of safely supporting the imposed dead and live loads.
☐	304.5 - Foundation walls - Foundation walls shall be maintained plumb and free from cracks and breaks and shall be kept n such condition so as to prevent the entry of rodents and other pests.
☐	304.6 - Exterior walls - Exterior walls shall be free from holes, breaks and loose or rotting materials; and maintained weatherproof and properly surface coated where required to prevent deterioration.
☒	304.7 - Roofs and drainage - The roof and flashing shall be sound, tight and not have defects that admit rain. Drainage must prevent dampness or deterioration in the walls or interior portion of the structure. Drains, gutters and downspouts must be in good repair and free from obstruction. Roof water shall not be discharged in a manner that creates a public nuisance.
☐	304.8 - Decorative features - Cornices, belt courses, corbels, terra cotta trim, wall facing and similar decorative features shall be in good repair with proper anchorage and in safe condition.
☐	304.9 - Overhang extensions - Overhang extensions including canopies, marquees, signs, metal awnings, fire escapes, standpipes and exhaust ducts shall be in good repair and properly anchored and kept in sound condition. All exposed surfaces of metal or wood shall be protected from the elements with weather coating material such as paint or similar surface treatment.
☐	304.10 - Stairways, decks, porches and balconies - Every exterior stairway, deck, porch and balcony shall be structurally sound, in good repair, with proper anchorage and capable of supporting the imposed loads.
☐	304.11 - Chimneys and towers - Chimneys, cooling towers, smoke stacks, shall be structurally safe and sound and in good repair. Exposed surfaces shall be protected by paint or similar surface treatment.
☐	304.12 - Handrails and guards - Every handrail and guard shall be firmly fastened and capable of supporting normally imposed loads and shall be maintained in good condition.

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CODE ENFORCEMENT
Florida

☐	304.13 - Window, skylight and door frames - Every window, skylight, door and frame shall be kept in sound condition, good repair and weather tight.
☒	304.13.1 - Glazing - Glazing materials shall be maintained free from cracks or holes.
☐	304.13.2 - Openable windows - Every window, other than a fixed window, shall be easily openable and capable of being held in position by window hardware.
☐	304.14 - Insect screens - Every door, window and other outside opening required for ventilation or food preparation areas shall have tightly fitting screens of minimum 16 mesh per inch and every screen door must have self closing device is good working condition.
☐	304.15 - Doors - Exterior doors and hardware shall be maintained in good condition. Locks at all entrances to dwelling units and sleeping units shall tightly secure the door.
☐	304.18 - Building security - Doors, windows or hatchways for dwelling units, room units or housekeeping units shall be provided with devices designed to provide security for the occupants and property within.
☐	304.18.1 - Doors - Doors providing access to a dwelling unit, rooming unit or housekeeping unit that is rented, leased or let shall have a dead bolt designed to open from the inside without a key.
☐	304.18.2 - Windows - Operable windows located within 6 ft. above the ground that provides access to a dwelling unit, rooming unit or housekeeping unit that is rented, leased or let shall be equipped with a window sash locking device.
☐	304.19 - Gates - Exterior gates, gate assemblies, operator systems and hardware shall be maintained in good condition.

Comments

☐	Section 305 - Interior Structure
☐	Section 306 - Component Serviceability
☐	Section 307 - Handrails and guardrails
☐	Section 308 - Rubbish and garbage
☐	Section 309 - Pest Elimination
☐	Section 404 - Occupancy Limits
☐	Section 502 - Required facilities
☐	Section 503 - Toilet Rooms
☐	Section 504 - Plumbing systems and fixtures
☐	Section 505 - Water system
☐	Section 506 - Sanitary drainage system
☐	Section 507 - Storm drainage
☐	Section 601 - Mechanical - General
☐	Section 602 - Heating facilities
☐	Section 603 - Mechanical equipment
☐	Section 604 - Electrical Facilities
☐	Section 605 - Electrical equipment
☐	Section 606 - Elevators, escalators and dumbwaiters
☐	Section 607 - Duct systems
☐	Section 701 - General fire safety requirements
☐	Section 702 - Means of egress
☐	Section 703 - Fire resistance ratings
☐	Section 704 - Fire protection systems

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Additional Comments	House secured, no interior inspection.

Michelle Franklin, CFA -- Saint Lucie County Property Appraiser -- All rights reserved.

Property Identification

Site Address: 1705 N 27th ST
Map ID: 24/05N

Parcel ID: 2405-503-0002-000-7
Zoning: R3

Account #: 18317
Use Type: 0100

Sec/Town/Range: 05/35S/40E
Jurisdiction: Fort Pierce

Ownership

John Henry Bouie
927 SW 106 PL
Micanopy, FL 32667

Legal Description

DUKE S/D S 65 FT OF LOTS 1 AND 2 (OR 294-2852)

Current Values

Just/Market:	$5,900	Assessed:	$5,900
Exemptions:	$0	Taxable:	$5,900

Historical Values 3-year

Year	Just/Market	Assessed	Exemptions	Taxable
2017	$5,900	$5,900	$0	$5,900
2016	$5,400	$5,400	$0	$5,400
2015	$5,100	$5,100	$0	$5,100

Sale History

Date	Book/Page	Sale Code	Deed	Grantor	Price
09-01-1978	0294 / 2852	XX01	CV		$0

Primary Building Information

Finished Area of this building: 1,080 SF
Gross Area of this building: 1,080 SF

Exterior Data

View:	Roof Cover: Fibrglss Shg	Roof Structure: Gable	Building Type: HD-
Year Built: 1964	Frame:	Grade: D-	Effective Year: 1962
Primary Wall: CB Stucco	Story Height: 1 Story	No. Units: 1	Secondary Wall:

Interior Data

Bedrooms: 3	A/C %: 0%	Electric: MAXIMUM	Primary Int Wall:
Full Baths: 1	Heated %: 0%	Heat Type:	Avg Hgt/Floor: 0
Half Baths: 0	Sprinkled %: N/A%	Heat Fuel:	Primary Floors: Carpet





Total Areas

Finished/Under Air (SF):	1,080
Gross Area (SF):	1,080
Land Size (acres):	0.14
Land Size (SF):	6,260
Total Building Count:	1

Special Features and Yard Items

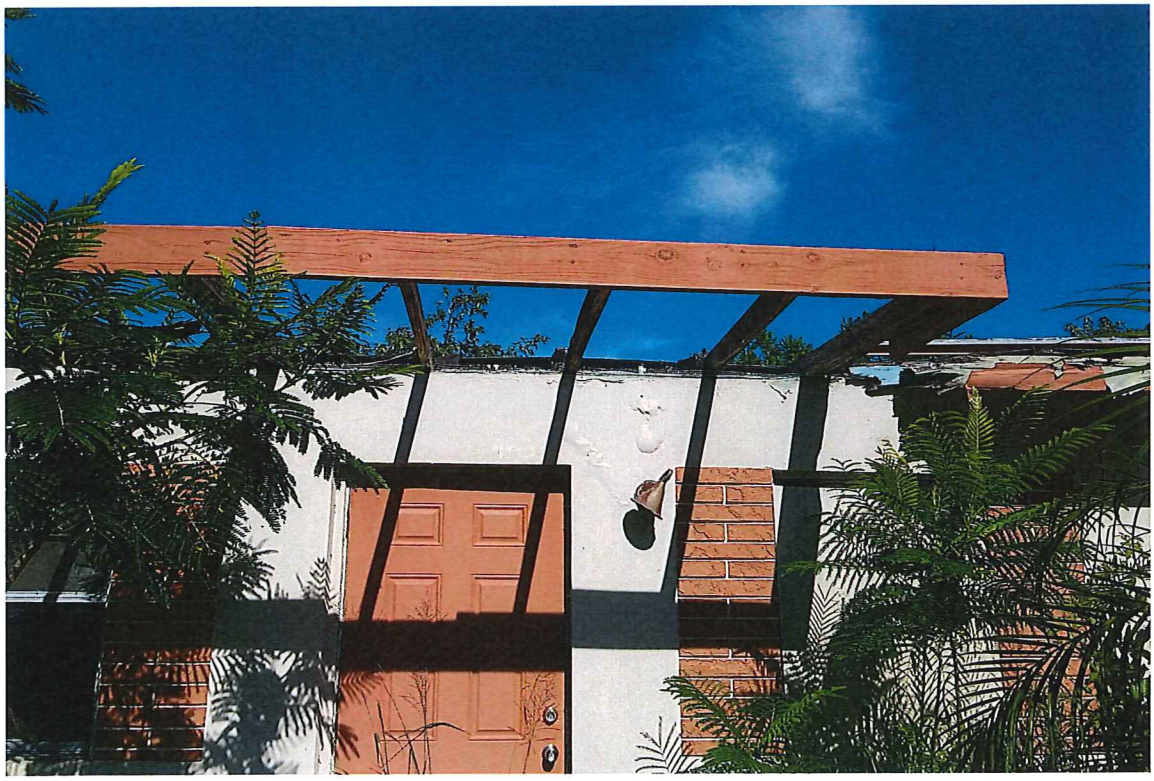
Type	Qty	Units	Year Blt
CHAINLINK 4'	1	260	1995

This information is believed to be correct at this time but it is subject to change and is not warranted.
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L.E.B. DEMOLITION & CONSULTING CONTRACTORS, INC.

7 Harbour Isle Drive East 204
FORT PIERCE, FLORIDA 34949
Phone: (772) 461-4545
Fax: (772) 461-2225

PROPOSAL

November 15, 2018

City of Fort Pierce
P.O. Box 1480
Fort Pierce, Florida 34954

Re: Complete demolition
Location: 1705 North 27th Street, Fort Pierce, Florida

L.E.B. Demolition & Consulting Contractors, Inc. proposes to furnish all labor and equipment for the demolition and removal of debris generated by the above referenced job. All debris will be transported to a class I-III landfill, dump fees shall be included.

Scope of Work: Complete demolition of existing structure to include:
Building, slab, footers and miscellaneous trash
Property will be sodded where structure was removed
L.E.B. Demolition will provide necessary permitting

PLEASE READ EXCLUSIONS

Exclusions:
ACM Survey and/or abatement of any type
Capping of wells, sewer or water services
Pumping and removal of septic tanks/drain fields
Pumping and removal of grease traps
Any and all hazardous abatement of any type (tanks above ground or underground)
Any and all damage to utilities, underground or overhead
Any and all utility disconnects or capping of utilities or gas
Any and all types of shoring that may be needed
Any and all damage to existing electrical in ceiling
Any and all damage to sprinkler system located in ceiling
Any and all dust control, water proofing, noise, fumes or odor protection
Any and all damage to sidewalks, sprinklers, roadways, parking lots or grass including trees
Any and all silt fencing, safety fencing, barricades, or weather protection that may be needed
Any and all work in public space
Any and all hazardous and toxic waste
Any and all unforeseen conditions that may occur during demolition work
Any and all unforeseen conditions under slab
Any and all land clearing

We hereby propose to furnish labor and material - complete in accordance with the above specifications. Any alteration or deviation from above specifications will become an extra charge over and above the estimate. The information provided in this proposal is not for public consumption. This proposal subject to acceptance within seven days and is void thereafter, at the option L.E.B. Demolition & Consulting Contractors, Inc.

For The Sum of: SIX THOUSAND ONE HUNDRED NINETY FIVE AND 00/100 Dollars $6,195.00

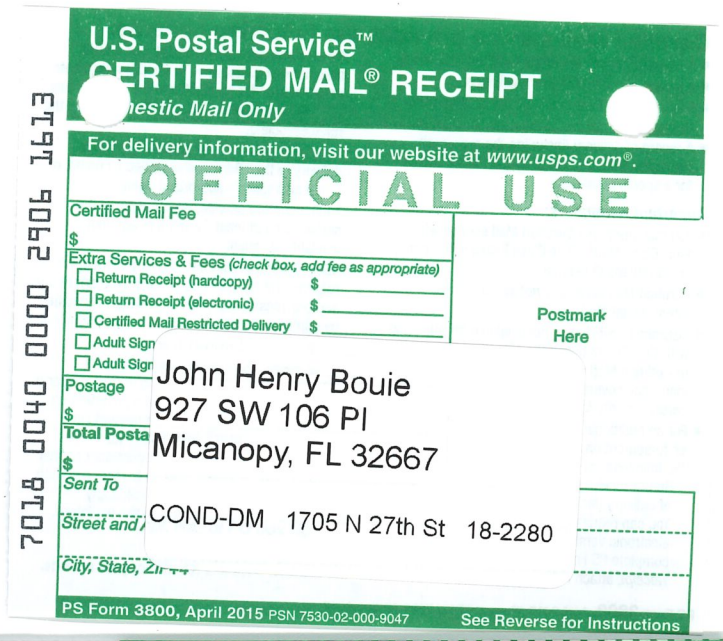
Payment to be made upon completion of work. No retention's to be held by contractor. L.E.B. Demolition & Consulting Contractors, Inc. reserves all salvage rights to property. Salvage rights to commence when job is awarded.

Authorized Signature: _____
Dustin Lee Beckford, President

ACCEPTANCE OF PROPOSAL

The above prices, specifications and conditions are hereby accepted. You are authorized to do the work as specified. Proposal must be signed and returned before any demolition work will begin.

ACCEPTED:
DATE: _____ SIGNATURE _____



U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Sign
- ☐ Adult Sign

Postage
$

Total Posta
$

Sent To

Street and

City, State, Zi

Postmark Here

John Henry Bouie
927 SW 106 Pl
Micanopy, FL 32667

COND-DM 1705 N 27th St 18-2280

7018 0040 0000 2906 1613

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

CERTIFIED MAIL®

7018 0040 0000 2906 1613

U.S. POSTAGE PITNEY BOWES
ZIP 34950 $ 006.67⁰
02 1W
0001403970 SEP. 07. 2018

THE SUNRISE CITY
FORT PIERCE
Florida
CODE ENFORCEMENT &
ANIMAL CONTROL
100 NORTH U.S. 1
P.O. BOX 1480
FORT PIERCE, FL 34954-1480

VTF

JOHN HENRY BOUIE
927 SW 106 PL
MICANOPY, FL 32667

NIXIE 322 DE 1 0009/11/18
RETURN TO SENDER
VACANT
UNABLE TO FORWARD
VAC BC: 34954148080 *0475-04594-07-4
34954>1480
32667-539727

THE SUNRISE CITY
FORT PIERCE
CODE ENFORCEMENT
Florida

Notice of Unsafe Building
Affidavit

Case#: 18-2280

Property Address: 1705 N 27TH ST

Tax ID#: 2405-503-0002-000/7

Legal Description: DUKE S/D S 65 FT OF LOTS 1 AND 2 (OR 294-2852)

Owner(s): JOHN HENRY BOUIE
927 SW 106 PL
MICANOPY, FL 32667

This AFFIDAVIT certifies that the above property, building, structure or premise is unsafe and the owner(s) of record has been properly served.

9/6/18
Date

Margaret M. Arraiz
Margaret M. Arraiz, City of Fort Pierce, Florida

Attachment: Notice of Unsafe Building Letter

This Affidavit shall remain on file until such time as the condition(s) rendering the building, structure or premise unsafe have been abated.

State of Florida, County of St. Lucie

The foregoing instrument was acknowledged before me this 6th day of September, 2018, by Margaret M. Arraiz who is personally known to me.

Colleen Greer
Signature of Notary

stamp

COLLEEN GREER
State of Florida - Notary Public
Commission # GG 013803
My Comm. Expires 11-13-2020
Bonded Through
National Notary Assn

JOSEPH E. SMITH, CLERK OF THE CIRCUIT COURT
SAINT LUCIE COUNTY
FILE # 4478377 09/07/2018 02:04:12 PM
OR BOOK 4178 PAGE 546 - 548 Doc Type: NOT
RECORDING: $27.00

C0080389

THE SUNRISE CITY
FORT PIERCE
CODE ENFORCEMENT
Florida

September 6, 2018

Case #: 18-00002280

JOHN HENRY BOUIE
927 SW 106 PL
MICANOPY, FL 32667

RE: Address: 1705 N 27TH ST
Tax ID #: 2405-503-0002-000/7

Pursuant to the City of Fort Pierce Code of Ordinances and the International Property Maintenance Code (IPMC) s. 108, the property located at the above referenced location has been found to be unsafe and is in violation of the following:

108.1.1 Unsafe structures.

An unsafe structure is one that is found to be dangerous to the life, health, property or safety of the public or the occupants of the structure by not providing minimum safeguards to protect or warn occupants in the event of fire, or because such structure contains unsafe equipment or is so damaged, decayed, dilapidated, structurally unsafe or of such faulty construction or unstable foundation, that partial or complete collapse is possible.

108.1.2 Unsafe equipment.

Unsafe equipment includes any boiler, heating equipment, elevator, moving stairway, electrical wiring or device, flammable liquid containers or other equipment on the premises or within the structure which is in such disrepair or condition that such equipment is a hazard to life, health, property or safety of the public or occupants of the premises or structure.

108.1.3 Structure unfit for human occupancy.

A structure is unfit for human occupancy whenever the code official finds that such structure is unsafe, unlawful or, because of the degree to which the structure is in disrepair or lacks maintenance, is unsanitary, vermin or rat infested, contains filth and contamination, or lacks ventilation, illumination, sanitary or heating facilities or other essential equipment required by this code, or because the location of the structure constitutes a hazard to the occupants of the structure or to the public.

108.1.5 Dangerous structure or premises.

For the purpose of this code, any structure or premises that have any or all of the conditions or defects described below shall be considered dangerous:

> 3. Any portion of a building, structure or appurtenance that has been damaged by fire, earthquake, wind, flood, deterioration, neglect, abandonment, vandalism or by any other cause to such an extent that it is likely to partially or completely collapse, or to become detached or dislodged.

C0080390

Atención: Documento importante con respecto a sus derechos y responsabilidades. Si usted no comprende ingles consiga traducción inmediatamente.
Atansyon: Dokuman sa impòtan an rapò avek droi è responsablitè ou. Si ou pa kompran anglè relé nou ou bien chèché ou moun póu nou espliké sa tou suit.

304.1 Exterior structure – General.

The exterior of a structure shall be maintained in good repair, structurally sound and sanitary so as not to pose a threat to the public health, safety and welfare.

304.1.1 Unsafe conditions.

The following conditions shall be determined as unsafe and shall be repaired or replaced to comply with the International Building Code or the International Existing Building Code as required for existing buildings:

5. Structural members that have evidence of deterioration or that are not capable of safely supporting all nominal loads and load effects;

8. Roofing or roofing components that have defects that admit rain, roof surfaces with inadequate drainage, or any portion of the roof framing that is not in good repair with signs of deterioration, fatigue or without proper anchorage and incapable of supporting all nominal loads and resisting all load effects;

304.7 Roofs and drainage.

The roof and flashing shall be sound, tight and not have defects that admit rain. Roof drainage shall be adequate to prevent dampness or deterioration in the walls or interior portion of the structure. Roof drains, gutters and downspouts shall be maintained in good repair and free from obstructions. Roof water shall not be discharged in a manner that creates a public nuisance.

304.13.1 Glazing.

All glazing materials shall be maintained free from cracks and holes.

The building, structure, or premise is condemned. If a permit application for rehabilitation of the structure is not received by the Building Department within 30 days, the City will commence with having the building demolished.

The building or structure has been posted with a Condemned placard and ordered vacated to prevent further occupancy until work is completed and the final inspection has been approved. The demolition of the building or structure must fully comply with all local ordinances and the currently adopted Florida Building Code (FBC). **If no action has been taken by the legal owner to come into compliance within the time specified, the City may initiate demolition proceedings in accordance with the City of Fort Pierce Charter and all applicable codes, with all costs incurred charged against the owner of record and a lien filed upon such real estate.**

Should you have questions regarding this matter, you may contact my office at (772) 467-3720.

Sincerely,

Margaret M. Arraiz
Code Compliance Manager
City of Fort Pierce

THE SUNRISE CITY
FORT PIERCE
CODE ENFORCEMENT
Florida

AFFIDAVIT OF MAILING

CASE NO: 18-00002280

RE: 1705 N 27TH ST

BEFORE ME, the undersigned authority, personally appeared Margaret M. Arraiz, Code Compliance Manager for the City of Fort Pierce, Florida, who after being duly sworn deposes and says:

That a Notice of Violation and an Affidavit of Unsafe Building was mailed today by first class mail to:

JOHN HENRY BOUIE
927 SW 106 PL
MICANOPY, FL 32667

FURTHER AFFIANT SAYETH NOT.

DATED this 8th day of November, 2018.

Margaret M. Arraiz
Margaret M. Arraiz, Code Compliance Manager

STATE OF FLORIDA
COUNTY OF ST. LUCIE

SWORN TO and SUBSCRIBED before me

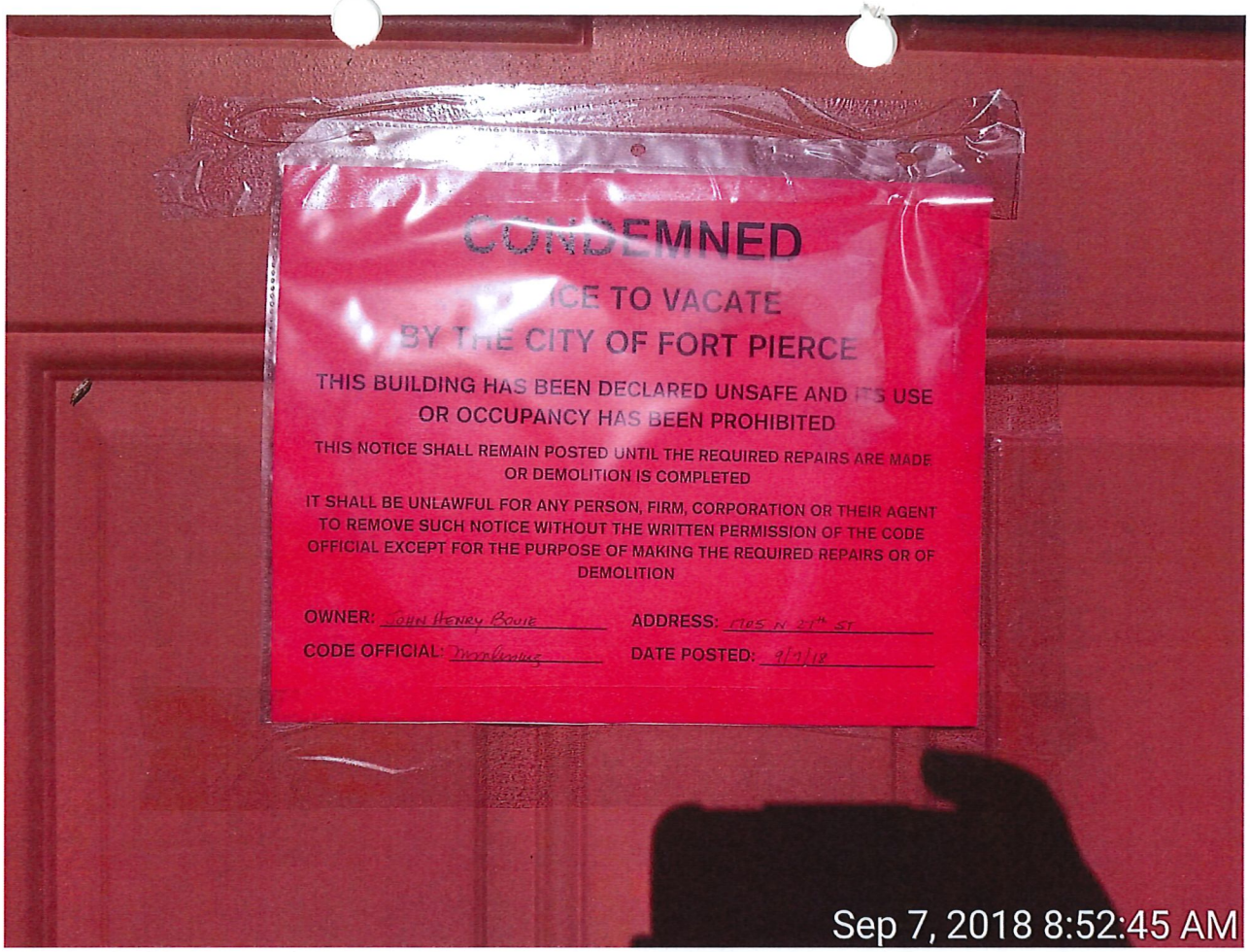
this 8th day of November, 2018.

Colleen Greer
NOTARY PUBLIC – STATE OF FLORIDA

MY COMMISSION EXPIRES:

COLLEEN GREER
State of Florida - Notary Public
Commission # GG 013803
My Comm. Expires 11-13-2020
Bonded Through
National Notary Assn

C0081559


CONDEMNED
BY THE CITY OF FORT PIERCE
THIS BUILDING HAS BEEN DECLARED UNSAFE AND ITS USE OR OCCUPANCY HAS BEEN PROHIBITED
THIS NOTICE SHALL REMAIN POSTED UNTIL THE REQUIRED REPAIRS ARE MADE OR DEMOLITION IS COMPLETED
IT SHALL BE UNLAWFUL FOR ANY PERSON, FIRM, CORPORATION OR THEIR AGENT TO REMOVE SUCH NOTICE WITHOUT THE WRITTEN PERMISSION OF THE CODE OFFICIAL EXCEPT FOR THE PURPOSE OF MAKING THE REQUIRED REPAIRS OR OF DEMOLITION
OWNER: JOHN HENRY BOUIE
ADDRESS: 1105 N 21st ST
CODE OFFICIAL:
DATE POSTED: 9/7/18
Sep 7, 2018 8:52:45 AM


Sep 7, 2018 8:52:55 AM

CONDEMNED

NOTICE TO VACATE

BY THE CITY OF FORT PIERCE

THIS BUILDING HAS BEEN DECLARED UNSAFE AND ITS USE OR OCCUPANCY HAS BEEN PROHIBITED

THIS NOTICE SHALL REMAIN POSTED UNTIL THE REQUIRED REPAIRS ARE MADE OR DEMOLITION IS COMPLETED

IT SHALL BE UNLAWFUL FOR ANY PERSON, FIRM, CORPORATION OR THEIR AGENT TO REMOVE SUCH NOTICE WITHOUT THE WRITTEN PERMISSION OF THE CODE OFFICIAL EXCEPT FOR THE PURPOSE OF MAKING THE REQUIRED REPAIRS OR OF DEMOLITION

OWNER: JOHN HENRY BOUIE

ADDRESS: 1705 N 27th ST

CODE OFFICIAL: M Linares

DATE POSTED: 9/7/18

THE SUNRISE CITY
FORT PIERCE
CODE ENFORCEMENT
Florida

AFFIDAVIT OF POSTING - PLACARD

CASE NO: 18-2280

RE: 1705 N 27TH ST

BEFORE ME, the undersigned authority, personally appeared Andy Avery, Code Enforcement Officer, for the City of Fort Pierce, Florida, who after being duly sworn deposes and says:

That the property listed above was posted with a CONDEMNED placard in accordance with the International Property Maintenance Code Section 108.4.

FURTHER AFFIANT SAYETH NOT.

DATED this 7th day of September, 2018.

Andy Avery, Code Enforcement Officer

STATE OF FLORIDA
COUNTY OF ST. LUCIE

SWORN TO and SUBSCRIBED before me

this 7 day of September, 2018.

NOTARY PUBLIC – STATE OF FLORIDA

MY COMMISSION EXPIRES:

MARGARET M ARRAIZ
Notary Public - State of Florida
Commission # GG 185223
My Comm. Expires Jun 7, 2022
Bonded through National Notary Assn.

C0080395


Jun 15, 2018 9:30:37 AM


Jun 15, 2018 9:30:41 AM


Jun 15, 2018 9:30:44 AM


Jun 15, 2018 9:31:07 AM


Jun 15, 2018 9:31:16 AM

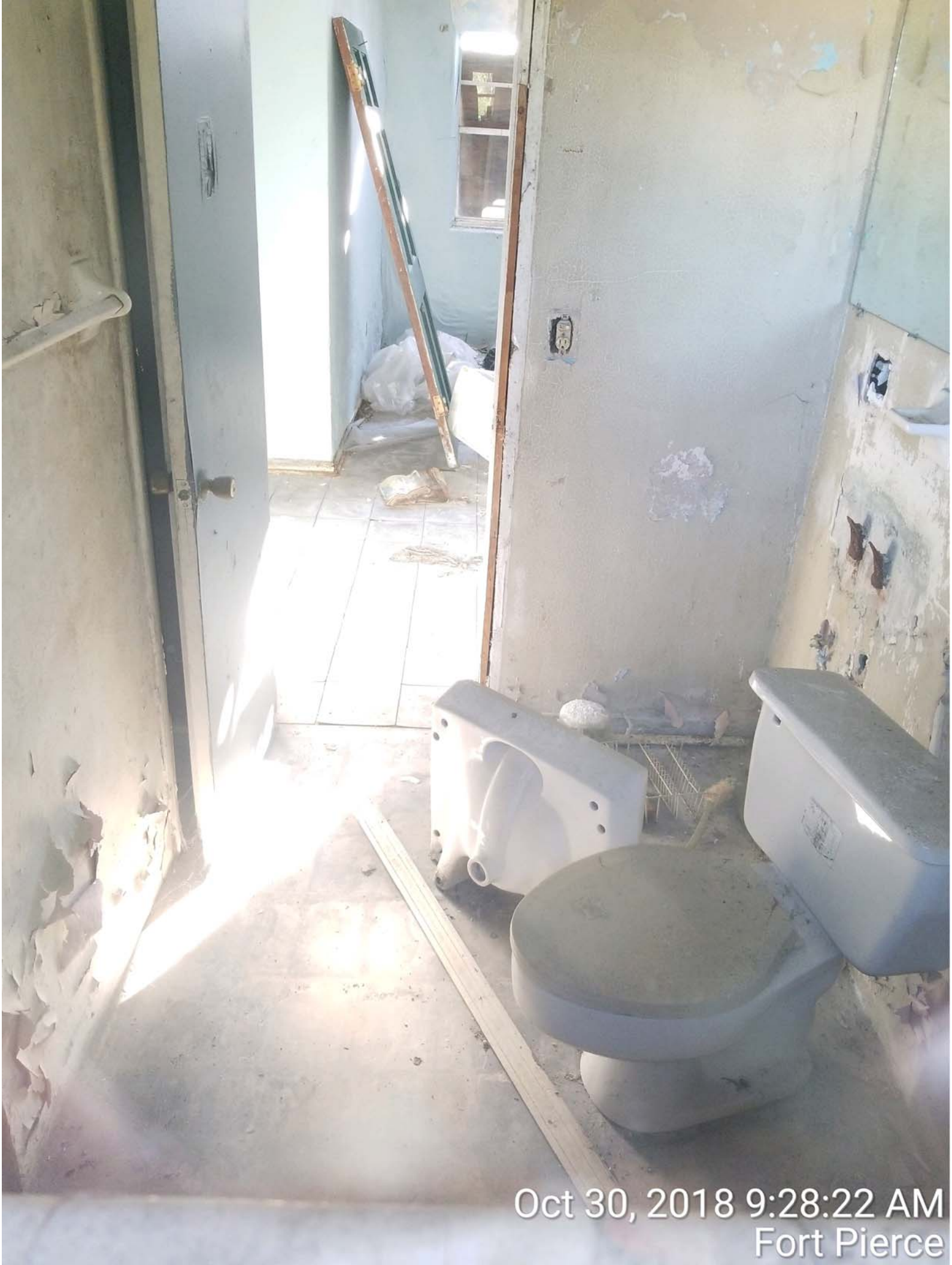

Jun 15, 2018 9:30:18 AM


Jun 15, 2018 9:30:29 AM


Oct 30, 2018 9:27:37 AM
Fort Pierce


Oct 30, 2018 9:28:00 AM
Fort Pierce


Oct 30, 2018 9:28:04 AM
Fort Pierce


Oct 30, 2018 9:28:22 AM
Fort Pierce


Oct 30, 2018 9:29:28 AM
Fort Pierce


Oct 30, 2018 9:26:14 AM
Fort Pierce


CONDEMNED
Oct 30, 2018 9:26:37 AM
Fort Pierce


Oct 30, 2018 9:26:46 AM
Fort Pierce


Oct 30, 2018 9:27:08 AM
Fort Pierce

City Commission Regular Meeting **13.a.**

Meeting Date: 12/17/2018

Re: Resolution of Support for Lincoln Theater

SUBJECT:

Resolution No 18-R63 Supporting the Lincoln Theater restoration.

SUMMARY:

Resolution of Support to formally support fundraising efforts of the MLK Jr Commemorative Committee, Inc. of St. Lucie County, Florida, as they move forward with restoration and renovation efforts. The historic Lincoln Theater will be used in the best interest of the citizens of Fort Pierce and for valid public purpose.

RECOMMENDATION:

Approve Resolution of Support

ALTERNATIVES:

Do not approve Resolution of Support

RESPONSIBLE STAFF:

Caleta Scott, Lincoln Park Revitalization Coordinator

COORDINATED WITH:

Iola Mosley, Sr. Assistant City Attorney
Elizabeth Woodruff, Grants Administration Manager

Fiscal Impact

Budgeted Y/N: N

OTHER INFORMATION:

There is no fiscal impact at this time for the Resolution of Support.

Attachments

Resolution of Support

Form Review

Inbox	Reviewed By	Date
Finance Department	Johnna Morris	12/11/2018 03:51 PM
City Manager	Nick Mimms	12/12/2018 11:47 AM
Form Started By: Caleta Scott		Started On: 11/20/2018 10:50 AM
Final Approval Date: 12/12/2018		

RESOLUTION NO. 18-R____

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF FORT PIERCE, FLORIDA, IN SUPPORT OF THE MARTIN LUTHER KING, JR. COMMEMORATIVE COMMITTEE, INC. OF ST. LUCIE COUNTY, FLORIDA, IN ITS INITIATIVE TO RENOVATE AND DEVELOP THE LINCOLN THEATER; PROVIDING FOR ASSISTANCE TO THE COMMITTEE TO FURTHER ITS EFFORTS; PROVIDING FOR SEVERABILITY; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, the Lincoln Theater located at 1132 Avenue D is a contributing structure to the Historic Lincoln Park District; and

WHEREAS, restoration of this treasured landmark would be a catalyst for the revitalization of the Historic Lincoln Park District by providing a venue that will host community activities, entertainment as well as a museum to recognize the rich cultural heritage of Fort Pierce; and

WHEREAS, the Lincoln Theater property is deemed historical as it was the only theater which provided an exclusive entertainment venue for the City's African American community during the early through middle twentieth century; and

WHEREAS, the City of Fort Pierce desires to recognize the importance of the contribution and continuing importance of the Lincoln Theater as one of the Nation's few remaining African American historic theaters; and

WHEREAS, the Martin Luther King, Jr. Commemorative Committee, Inc. of St. Lucie County, Florida desires to develop and restore this significant historic amenity to preserve and promote arts, cultural heritage, and creativity within the City of Fort Pierce and is taking steps toward the restoration; and

WHEREAS, the City has determined that a valid public purpose will be served, and that it is in the best interest of the citizens of the City of Fort Pierce, that the City support such endeavor; and

WHEREAS, we pledge to support this effort by researching grant opportunities and supporting grant applications that facilitate the renovation and restoration of the Lincoln Theater.

NOW, THEREFORE, BE IT DULY RESOLVED by the City Commission of the City of Fort Pierce, Florida, as follows:

SECTION 1. The City of Fort Pierce supports the goals and objectives of the Committee in restoring the Lincoln Theater.

SECTION 2. The City will assist the Committee in researching grant opportunities which can be used for the purpose of funding the restoration of the Lincoln Theater.

SECTION 3. If any provision of this act or its application to any person or circumstance is held invalid, the invalidity of that section does not affect other provisions or applications of this act which can be given effect without the invalid provision or application, and to this end the provisions of this act are severable.

SECTION 4. This resolution shall take effect immediately upon its adoption.

IN WITNESS THEREOF, this Resolution has been duly adopted on this 17th day of December, 2018.

_____
Linda Hudson, Mayor Commissioner

ATTEST:

_____
Linda W. Cox, City Clerk

(SEAL)

Approved as to Form
And Correctness:

_____
Ben Bryan, Jr., Esq.
Interim City Attorney