

**MARTIN COUNTY, FLORIDA**

**PRESERVE AREA MANAGEMENT PLAN**

**For:**

**THE RESERVE AT JENSEN BEACH**

Parcel Control Numbers:  
273741007000001500  
273741007000001610  
273741005000000200

**Prepared by:**  
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**June 19, 2019 (rev. 11-25-19)**

**Approved by/Date:** \_\_\_\_\_

**A Preserve Area Management Plan (PAMP) is required of all applicants for development approval on sites which contain wetland or upland preserve areas, pursuant to provisions of Section 4.36.A.1 of the Martin County Land Development Regulations, Martin County Code.**



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## **1.0 GENERAL**

**The owner(s) of the lands to be preserved/maintained by this Preserve Area Management Plan (PAMP) and the developer(s) of The Reserve at Jensen Beach, which is located on NE Savannah Road in Jensen Beach/Martin County, Florida, their successors and assigns, and their environmental consultants and contractors, will implement and comply with all portions of this PAMP.**

**Compliance with the terms of this PAMP includes submittal of all Monthly Monitoring Reports on PAMP compliance throughout all phases of project construction and submittal of all Annual Monitoring Reports following completion of project construction, pursuant to Section 10.17 of the Martin County Land Development Regulations. The owner(s) of the lands to be preserved/maintained shall have ultimate responsibility for the submittal of all Monthly and Annual Monitoring Reports, according to the format and schedule requirements of Section 10 of this PAMP.**

**As noted in Section 9 of this PAMP, the Martin County Environmental Planning Administrator shall be notified in writing within thirty (30) days of transfer of ownership of any lands to be preserved/maintained under the terms of this PAMP. Failure to notify shall be considered as non-compliance with the terms of this PAMP.**

**This PAMP will not be altered or amended by either Martin County or the owner/developer of The Reserve at Jensen Beach, except by an alteration or amendment agreed to by both the Martin County Environmental Planning Administrator and the owner/developer of The Reserve at Jensen Beach. Such alterations and amendments shall be inserted into the PAMP and the final revised document shall be recorded by the Martin County Clerk of Courts. The revised PAMP will be labeled with the appropriate O.R. Book and Page Number. Three copies of the revised document shall be provided to the Martin County Environmental Planning Administrator within thirty (30) days of the Recording date.**

## **2.0 ENVIRONMENTAL ASSESSMENT**

The Environmental Assessment includes maps and text which accurately depict the site's location, soils, wetlands, uplands, listed species, previous impacts, preserve area locations and boundaries, and any other significant environmental features.

**2.1 Location** - The +/- 23-acre site is located east of NE Savannah Road, with frontage along the FEC Railroad in Martin County, Florida.

**2.2 Soils** - The following soils were found to be present on the site;

**#4-Waveland sand** - This soil type occupies a very small portion of the property (less than ½-acre) near the northeast corner of the site adjacent to the existing mobile home park. It is a poorly drained soil type found in broad areas of flatwoods. Under natural conditions, the water table is less than ten inches for two to four months during the wet season and within a depth of forty inches during the dry season. The natural vegetation consists of South Florida slash pine with an understory of saw palmetto, gallberry, fetterbush, running oak and dwarf huckleberry. Grasses include pineland threeawn, bluestem and panicum. (Source: Soil Survey of Martin County Area, Florida). The natural vegetation where this soil type occurs has been entirely displaced with Brazilian pepper trees.

**#6-Paola sand, 0 to 8% slopes** - This nearly level to gently sloping soil type, which is excessively drained, occupies the central portion of the site. It is typically found on the coastal ridge and isolated knolls in coastal areas. Under natural conditions, the water table is below a depth of 72 inches throughout the year. The natural vegetation consists of sand pine, scrub oak, rosemary, saw palmetto, running oak, cacti, mosses and lichens (Source: Soil Survey of Martin County Area, Florida). The natural vegetation is largely intact except in the southernmost corner of the site and along the railroad tracks, where some excavation has occurred creating opportunities for exotic species including Brazilian pepper and melaleuca trees.

**#41-Paola sand, 0 to 5% slopes** - This nearly level to gently sloping soil type, which is moderately well-drained, occupies the easternmost and westernmost portions of the site. It is typically found on slightly elevated knolls and ridges in coastal areas. Under natural conditions, the water table is at 40 to 60 inches for 1 to 4 months during the wet season and may rise for brief periods to a depth of 36 inches. It is below 60 inches for most of the rest of the year. The natural vegetation consists of South Florida slash pine, sand pine, scrub oak, saw palmetto, gallberry, fetterbush, running oak, gopher apple, cacti and scattered sprigs of pineland threawn and other grasses (Source: Soil Survey of Martin County Area, Florida). The natural vegetation is largely intact except in the southwest corner of the site, where an existing ditch was excavated and is maintained by Martin County as an outfall for stormwater originating from NE Savannah Road and discharging into Warner Creek.

**2.3 Habitats** - The following habitats were found to be present on the site:

**Wetland Habitat** - As per the South Florida Water Management District (SFWMD) Informal Wetland Determination No. 43-100226-P, there are no naturally-occurring wetlands on site. Based on a site visit conducted by the SFWMD staff and Daniel Saskowsky and Associates, Inc. on April 19, 2018, the channelized portion of Warner Creek, the public drainage ditch along the southwest corner of the site and the manmade excavations along the railroad tracks are “other surface waters” (OSW) that do not require preservation under State or County rules. In total, the other surface waters impact approximately 1.36 acres of the site.

**Upland Habitat** - The majority of the site, approximately 17.78 acres, is composed of Sand pine scrub habitat (FLUCCS #1213). Dominant vegetation in this area includes sand pine (*Pinus clausa*), scrub oak (*Quercus inopina*), myrtle oak (*Quercus myrtifolia*), sand live oak (*Quercus geminata*), running oak (*Quercus pumila*), live oak (*Quercus virginiana*), saw palmetto (*Serenoa repens*), cabbage palm (*Sabal palmetto*), slash pine (*Pinus elliottii* var. *densa*), Florida tasselflower (*Emilia fosbergii*), tallow wood (*Ximenia Americana*), shiny lyonia (*Lyonia lucida*), rosary pea, prickly pear (*Opuntia humifusa*), lichen (*Cladonia* sp.), large-flowered false rosemary (*Conradina grandiflora*), nodding pinweed (*Lechea cernua*), greenbriar and muscadine grapevine.

Approximately 2.10 acres of the site consists of mesic flatwoods (FLUCCS #1311). This area appears to have been former sand pine scrub habitat that was previously cleared and slightly excavated to support the construction of the railroad. This area, which is at a lower elevation than the sand pine scrub habitat, continues to exhibit excessively drained soils and similar plant species but with less oak species and a greater coverage of slash pine, saw palmetto, sand pine and cabbage palm.

Approximately 1.0 acre of the site between the railroad and sand pine scrub habitat exhibits characteristics of scrubby flatwoods (FLUCCS #1312). A portion of this area is being preserved in conjunction with sand pine scrub habitat to make up the required preserve area for rare and endangered upland habitat types.

**Exotic Vegetation** – Warner Creek and the public drainage areas, which are maintained by the County, are designed to convey stormwater from the mobile home park and other developed properties to the north and Savannah Road to the west. The manmade excavations near the railroad tracks appear to have been excavated in support of railroad construction and operation. Some of these areas are dominated by exotic species including melaleuca (*Melaleuca quinquenervia*), earleaf acacia (*Acacia auriculiformis*) and Brazilian pepper (*Schinus terebinthifolius*). Brazilian pepper trees also dominate approximately 0.40 acres located along the north property near the railroad.

The disturbed areas on site that are infested with exotic vegetation occupy approximately 0.77 acres of the subject property.

**2.4 Protected Species-** The following is a list of rare, endangered, threatened, or species of special concern with the potential to be found on the subject property (based on the Florida Fish and Wildlife Conservation Commission list):

<b>FLORA:</b>	Florida perforate cladonia ( <i>Cladonia perforata</i> ) Four petal pawpaw ( <i>Asimina tetramera</i> ) Scrub mint ( <i>Dicerandra frutescens</i> ) FrAGRANT prickly-apple ( <i>Cereus eriphorus</i> var. <i>fragrans</i> ) Short-leaved rosemary ( <i>Conradina brevifolia</i> )
<b>FAUNA:</b>	
<b>Fish:</b>	None
<b>Amphibians:</b>	Gopher frog ( <i>Lithobates capito</i> ) SSC; Not observed (Because of habitat destruction, the gopher frog is very rare in its traditional southern range.
<b>Reptiles:</b>	Gopher tortoise ( <i>Gopherus polyphemus</i> ) ST Florida pine snake ( <i>Pituophis melanoleucus mugitus</i> ) SSC Eastern indigo snake ( <i>Drymarchon corais couperi</i> ) FT
<b>Birds:</b>	Florida scrub-jay ( <i>Aphelocoma coerulescens coerulescens</i> ) ST
<b>Mammals:</b>	None

FT-Federally threatened   ST- State threatened   SSC-Species of special concern

#### Gopher Tortoise Survey

A gopher tortoise survey was conducted on the property between July 25, 2018 and August 2, 2018. The “Gopher Tortoise/Listed Species Survey”, which is enclosed as an appendix to this plan, was conducted by Daniel Saskowsky & Associates, Inc. in accordance with the scientific methodologies outlined in *Wildlife Methodology Guidelines* and in *Ecology & Habitat Protection Needs of Gopher Tortoise Populations Found on Lands Slated for Development in Florida* published by the Florida Wildlife Commission (FWC). Also utilized was *Procedures for Conducting Accurate Burrow Surveys* published by Ashton Biodiversity Research and Preservation Institute. The report identifies a total of 63 burrows on the project site. Prior to site clearing activities, the gopher tortoise survey must be updated and required permits to ensure the protection of the gopher tortoises and other commensal species must be obtained in accordance with Section 7.0 of this plan. No protected plant species were identified during the gopher tortoise survey.

#### Florida Scrub-jay Survey

In March of 2017 Environmental Consultants, Inc. (ECI) conducted a Florida scrub-jay survey for five consecutive days, from March 20<sup>th</sup> through March 24<sup>th</sup>, according to protocol set forth in *Ecological and Development-Related Habitat Requirements of the Florida Scrub-jay (Aphelocoma coerulescens coerulescens)*, Non-Game Wildlife Program Technical Report #8, Office of Environmental Services, Florida Game and Fresh Water Fish Commission, April 1991. The Florida Scrub-Jay Survey report, which is enclosed an appendix to this plan, offered the following conclusions:

1. No scrub jays were observed on site; and
2. About half of the project contains good quality Type 1 Scrub-jay habitat. The other half of the site is made up of Type II and III habitat that has minimal open canopy and has been encroached by exotic species.

In March of 2018 ECI conducted an additional Scrub-jay survey, which is enclosed as an appendix to this plan, for five consecutive days, from March 1<sup>st</sup> through March 5<sup>th</sup> that reaffirmed the findings in the previous survey as stated above.

To ensure the protection of the Florida Scrub-jay, the Scrub jay survey must be updated prior to site clearing activities.

**2.5 Previous Impacts** – Except for perimeter areas and areas within or adjacent to the other surface waters (i.e. manmade ditches, Warner Creek and other excavations), the native sand pine scrub and mesic flatwoods on site appears to be in good condition with minimal impacts to the upland habitat.

**2.6 Agency Correspondence** – All relevant agency correspondence including a copy of the April 25, 2018 wetland jurisdictional determination from the South Florida Water Management District (SFWMD) is enclosed within the Appendix.

### **3.0 IDENTIFICATION OF PRESERVE AREAS**

**3.1 Site Plan - All Preserve Areas, rights-of-way and easements are shown on The Reserve At Jensen Beach Final Site Plan, a copy of which is included in this PAMP as Exhibit A. The Site Plan includes a summary of the following: acreage of wetlands under preservation; acreage of native upland habitat under preservation; acreage of common upland habitat under preservation; total acreage under preservation; and total acreage of the Site as follows:**

<b>Total Site Area:</b>	<b>23.01 acres</b>
<b>Other Surface Waters:</b>	<b>1.36 acres</b>
<b>Net Upland Area:</b>	<b>21.65 acres</b>
<b>25% Preserve Required:</b>	<b>5.41 acres</b>
<b>Total Preserve Provided:</b>	<b>5.92 acres</b>
<b>Sand Pine Scrub Preserve:</b>	<b>5.00 acres</b>
<b>Scrubby Flatwood Preserve:</b>	<b>0.50 acre</b>
<b>Restored Preserve:</b>	<b>0.42 acre</b>

**The Site Plan contains the notation: "PRESERVE AREAS ARE NOT TO BE ALTERED EXCEPT IN COMPLIANCE WITH A PRESERVE AREA MANAGEMENT PLAN APPROVED BY MARTIN COUNTY."**

- 3.2 Legal Recording - The Final Site Plan for The Reserve At Jensen Beach will be recorded with the PAMP by the Martin County Clerk of Courts. The Site Plan and the PAMP will be labeled with the appropriate O.R. Book and Page Number and copies of each recorded document will be provided to the Martin County Environmental Planning Administrator within thirty (30) days of the Recording date.**

#### **4.0 SURVEYING, MARKING AND BARRICADING REQUIREMENTS**

**All Preserve Areas shown on The Reserve At Jensen Beach Final Site Plan will be surveyed and marked in the field with appropriate survey markers and signage. During the clearing and construction phases of the project, Preserve Area boundaries will be marked by physical barriers. No plant material will be removed from the Preserve Areas to facilitate surveying, fencing or soil boring/sampling without prior permission from the Martin County Environmental Planning Administrator.**

- 4.1 Preserve Area Surveying Requirements – Each Preserve Area will be surveyed and marked with permanent monuments at each corner and at other sites necessary for locating the boundary of the Preserve Area. These permanent monuments will be constructed under the supervision of a Registered Land Surveyor and will be shown on the Site Plan. Map coordinates of each Preserve Area will be provided to the Martin County Environmental Planning Administrator, in a form compatible for use in the County’s GIS mapping system.**
- 4.2 Preserve Area Boundary Markers and Signs - Preserve Areas will be posted with permanent signs and boundary markers. Boundary Markers will be placed at the corners of residential buildings abutting Preserve Areas. Signs will be at least 11 x 14 inches in size and will be posted in conspicuous locations along the Preserve Area boundary, at a frequency of no less than one (1) sign per 500 feet. All boundary markers and signs will be approved by the Martin County Environmental Planning Administrator and they will be in place prior to issuance of a building permit for construction on the site. Illustrations of the signs and markers to be used for this project are included in the Appendix of this plan.**
- 4.3 Barricading Requirements - Prior to clearing, the developer will ensure that all Preserve Areas are protected with physical barriers during all clearing and construction activities in accordance with the following guidelines. Barricades will be inspected by County Environmental Division staff prior to work approval. Removal of the barricade materials will be done upon issuance of the final Certificate of Occupancy with authorization from appropriate County staff.**

**Barricades will be high-visibility orange safety fence extending from the ground to a height of at least 4 feet. Barricades will not be attached to vegetation.**

**All barricades and turbidity screens will be upright and maintained intact for the duration of construction.**

**Where areas are proposed for clearing (i.e. building envelope, utilities, drainage, road right-of-way, etc.) the bright orange barricades will be offset outside the Preserve Area or placed**



at the dripline of the canopy trees, whichever is greater. Erosion control devices (e.g., silt fences) shall be constructed at least 5 feet outside the perimeter of preserve areas to prevent encroachment into the mandatory construction setback area.

All native vegetation not slated for removal as part of the development plans will be retained in their undisturbed state and will be barricaded at or outside the dripline of the trees.

Cut or fill will meet existing grade without encroaching into Preserve Areas.

Wetlands will be protected from possible surface water and sediment runoff by the placement of silt screens, hay bales or other turbidity control measures, at or beyond the delineation line prior to any land clearing or construction.

It is the responsibility of the owner and developer of The Reserve At Jensen Beach to inform all contractors of these Marking and Barricading Requirements. Failure to comply with these Marking and Barricading Requirements will be considered a violation of the Site Plan approval. Further work on the project may be stopped until compliance with the Marking and Barricading Requirements is achieved, and the owner or developer may be required to appear before the Code Enforcement Board.

## **5.0 USE OF PRESERVE AREAS**

**5.1 Activities Allowed In Preserve Areas –** Low impact recreational activities, such as walking, bird watching, and activities that promote the general enjoyment of the outdoors is permitted within the preserve area.

**5.2 Activities Prohibited In Preserve Areas -** Activities prohibited in Preserve Areas or easements within Preserve Areas include, but are not limited to: construction or placing of building materials on or above the ground; dumping or placing soil or other substances such as garbage, trash, and cuttings; removal or destruction of native trees, shrubs or other native vegetation; excavation, dredging or removal of soil materials; diking or fencing; vehicular traffic including use by non-motorized vehicles, recreational vehicles and off-road vehicles; permanent irrigation; trimming, pruning, or fertilization; and any other activities detrimental to drainage, flood control, water conservation, erosion control or fish and wildlife conservation and preservation.

No hazardous material other than fuel for refueling on-site heavy equipment will be stored during the construction phases. On-site fuel tanks shall not be located within twenty-five (25) feet of any Preserve Areas and shall be removed upon completion of construction work.

Buildings proposed to be located adjacent to Preserve Areas shall be set back a minimum of ten (10) feet to allow for construction and maintenance without encroaching into the Preserve Area. All other structures (e.g. pools, sheds, decks, fences) shall be set back a minimum of five (5) feet from the Preserve Area boundary.

Development activities such as the construction of building pads for associated structures, swales, or culverts for surface water management shall not alter the hydrology of adjacent Preserve Areas. Nor shall any activities increase non-point source pollution in Preserve Areas.

## **6.0 RESTORATION AND MAINTENANCE ACTIVITIES**

Except for approved restoration and maintenance activities, Preserve Areas will be left undisturbed. All maintenance of Preserve Areas will be in accordance with this PAMP for The Reserve At Jensen Beach. Maintenance and management activities will be performed by or under the supervision of a qualified environmental professional and must be approved by the Martin County Environmental Planning Administrator. The following restoration and maintenance activities may be allowed within Preserve Areas with prior written approval from the Environmental Planning Administrator: exotic plant removal, revegetation or planting native vegetation, and removal of dead, diseased, or safety hazard plant material.

- 6.1 Exotic Vegetation Removal – Exotic vegetation shall be removed from Preserve Areas by the least ecologically-damaging method available. Such methods include hand pulling, hand spading, cutting with hand or chain saws and in-situ treatment with appropriate herbicides. Where there are dense concentrations of exotic vegetation, specialized heavy equipment shall be utilized to augment the removal of large stands of undesirable vegetative material. Heavy equipment shall not be used in sensitive areas where their presence may damage desirable native plant species. No debris, including dead plants, plant clippings or wood scraps, shall be allowed in Preserve Areas. In addition, all dead plant material and exotic plant debris removed from Preserve Areas shall be disposed of in a County-approved recycling facility.**
- 6.2 Revegetation – Preserve Areas left substantially void of native plant materials due to the removal of exotic vegetation shall be revegetated with appropriate native plant species pursuant to a plan approved by the Martin County Environmental Administrator.**
- 6.3 Vegetation Removal - Dead or diseased plant material shall be removed from Preserve Areas upon approval by the Martin County Environmental Planning Administrator. Revegetation may be required for any removed plant material. No debris, including dead plants, plant clippings or wood scraps, shall be allowed in Preserve Areas. All dead plant material and debris removed from Preserve Areas shall be disposed of in a County-approved recycling facility.**
- 6.4 Prescribed Burns - Martin County considers prescribed burns an acceptable habitat management tool. When approved by the Martin County Environmental Planning Administrator, they will be conducted by a certified burn manager who will be responsible for obtaining all appropriate permits from State and local agencies.**
- 6.5 Hydrology - Previous or potential drainage impacts will be corrected to the extent technically feasible. Water quality and the rate, timing, and volume of run-off shall recreate natural conditions for the benefit of onsite wetlands and other water bodies. Wetlands and water bodies on adjacent properties shall be protected from adverse impacts.**
- 6.6 Temporary Impacts – Restoration and replanting of temporary impacts to preserve areas caused by the removal of exotic vegetation or the installation of stormwater or utility improvements shall be completed prior to the issuance of the first certificate of occupancy**

in accordance with the Preserve Area Planting Plan for Temporary Impacts enclosed as an Appendix to this plan.

## **7.0 PROTECTIVE MEASURES FOR LISTED SPECIES**

- 7.1 Gopher Tortoises** – Gopher tortoises have been confirmed on site. In Florida, gopher tortoises are protected as a “Threatened Species”. Under Florida law, no person may take, possess, transport or sell a Threatened Species. No land clearing or construction shall occur until all tortoises which will be impacted are relocated to upland preservation areas or off-site receiver areas as permitted by the Florida Fish and Wildlife Conservation Commission (FFWCC). A gopher tortoise agent registered with the FFWCC will supervise clearing in the areas of the gopher tortoise burrows. Tortoises inhabiting burrows in areas to be developed will be captured and relocated following guidelines set forth below. Tortoise burrows may be bucket trapped or excavated using methodology approved by the Florida Fish and Wildlife Conservation Commission and conducted by an authorized gopher tortoise agent possessing a valid relocation permit. During clearing and grubbing operations, equipment operators will be notified of the occurrence of gopher tortoises on-site and instructed to observe for roaming and foraging individuals. Should gopher tortoises be seen during the clearing and grubbing, all equipment operations will be stopped, and the gopher tortoises will be captured and relocated into a Preserve Area of the project away from the immediate clearing activities. Once the tortoise(s) have been safely relocated to a Preserve Area and restrained by tortoise fencing, equipment operation can resume.
- 7.2 Endemic Species** - All gopher tortoise relocation efforts will include trapping of endangered endemic species that may live in the burrow. These endemic species include but are not limited to the Florida mouse (*Peromyscus floridana*), gopher frog (*Rana aerolata*) and Eastern indigo snake (*Drymarchon corias couperi*).
- 7.3 Relocation of Tortoises** - If the number of tortoises exceeds the carrying capacity of the remaining natural area, the Martin County Environmental Planning Administrator will be notified and will be provided with a copy of the Gopher Tortoise Relocation Permit from the Florida Fish and Wildlife Conservation Commission. All relocations shall be carried out by a gopher tortoise agent licensed for gopher tortoise relocations. The responsible party shall have access to literature pertaining to gopher tortoise preservation and shall be encouraged to preserve additional areas and to landscape with native vegetation.

## **8.0 MISCELLANEOUS PROVISIONS AND RESTRICTIONS**

- 8.1 Firewise Principles** – The majority of the fire threat on site is due to the adjacency of sand pine scrub preserve areas located within the project boundaries. To minimize wildfire risk, the project has been designed to provide a 30’ wide defensible space between the forested preserve areas and the primary structures. Proposed landscaping adjacent to these areas will utilize native, low flammability and low growing species within the defensible space. The owner/developer and/or property manager shall ensure that the maintenance of the 30’ wide defensible space adheres to the “Firewise” landscaping guidelines developed by the Florida Forest Service and enclosed as an Appendix to this plan.

After construction is complete the Developer/Owner and/or property manager will be responsible for maintaining the property in accordance with the firewise principles. The Developer/Owner and/or property manager is strongly encouraged to apply for recognition as a certified "Firewise Community".

## **9.0 TRANSFER OF RESPONSIBILITIES**

The property owner(s) and developers of The Reserve At Jensen Beach are responsible for implementation of all requirements of this Preserve Area Management Plan until such time as the developer transfers responsibility to the owners or a successor. The Martin County Environmental Planning Administrator will be notified in writing within thirty (30) days of transfer of ownership of any lands to be preserved under this PAMP. Failure to notify will be considered as non-compliance with the terms of this PAMP. The developer will pay his share of total cost of management activities or fines on a per lot basis if he retains ownership of lots. At such time as the developer is ready to transfer control of The Reserve At Jensen Beach to the property owners, whether the developer retains ownership of the lots in the project or not, an environmental professional shall certify, in writing, to the Martin County Environmental Planning Administrator, that the Preserve Areas are in full compliance with this PAMP.

The developer and/or successor will be responsible for maintaining the Preserve Areas in their existing natural condition with the periodic removal of invasive exotic vegetation. After transfer of responsibilities, funding for all maintenance and management programs will be the responsibility of all successors.

## **10.0 MONITORING, MAINTENANCE, REPORTING AND INSPECTIONS**

**10.1 Monthly Construction Reports –** During construction of The Reserve At Jensen Beach, the developer will be responsible for submitting a monthly report on the progress of the project, which will address all aspects of the site construction relative to the Preserve Areas. Information regarding construction and maintenance of the Preserve Areas, such as placement of barriers and signage, removal of exotic vegetation, revegetation, prescribed burns, etc. will be described and supported with photographs, where appropriate.

### **10.2 Annual Monitoring Reports -**

Monitoring and reporting will be conducted annually by a qualified environmental professional for a period of five years from the date of completion of the project or project phase encompassing the monitored area. Annual monitoring will be conducted at the end of the wet season (usually by November 30) and a report of the monitoring will be submitted to the Martin County Environmental Planning Administrator within 30 days of the completion of the monitoring.

The Annual Monitoring Reports will document changes in vegetation including encroachment and/or overgrowth of noxious or exotic vegetation. Fixed-point panoramic photos of all Preserve Areas will be included in each report. The reports will include recommendations for exotic vegetation removal, revegetation, and any additional enhancement activities necessary to maintain the Preserve Area. A timetable for action within 90 days of the report will be prepared and followed.

**A copy of the proposed Annual Monitoring Report format is enclosed as an Appendix to this PAMP. This format may be modified separately from the PAMP, as necessary, upon written approval from the Martin County Environmental Planning Administrator.**

**Upon request, Martin County Environmental Planning staff may meet with the responsible parties to review the annual monitoring report findings and supply technical assistance and support for stewardship.**

**The first Annual Monitoring Report due in compliance with this PAMP will be submitted to the Martin County Environmental Planning Administrator at the end of the wet season following issuance of a Certificate of Occupancy for development described herein. Subsequent Annual Monitoring Reports will be due on the same date for the next four years.**

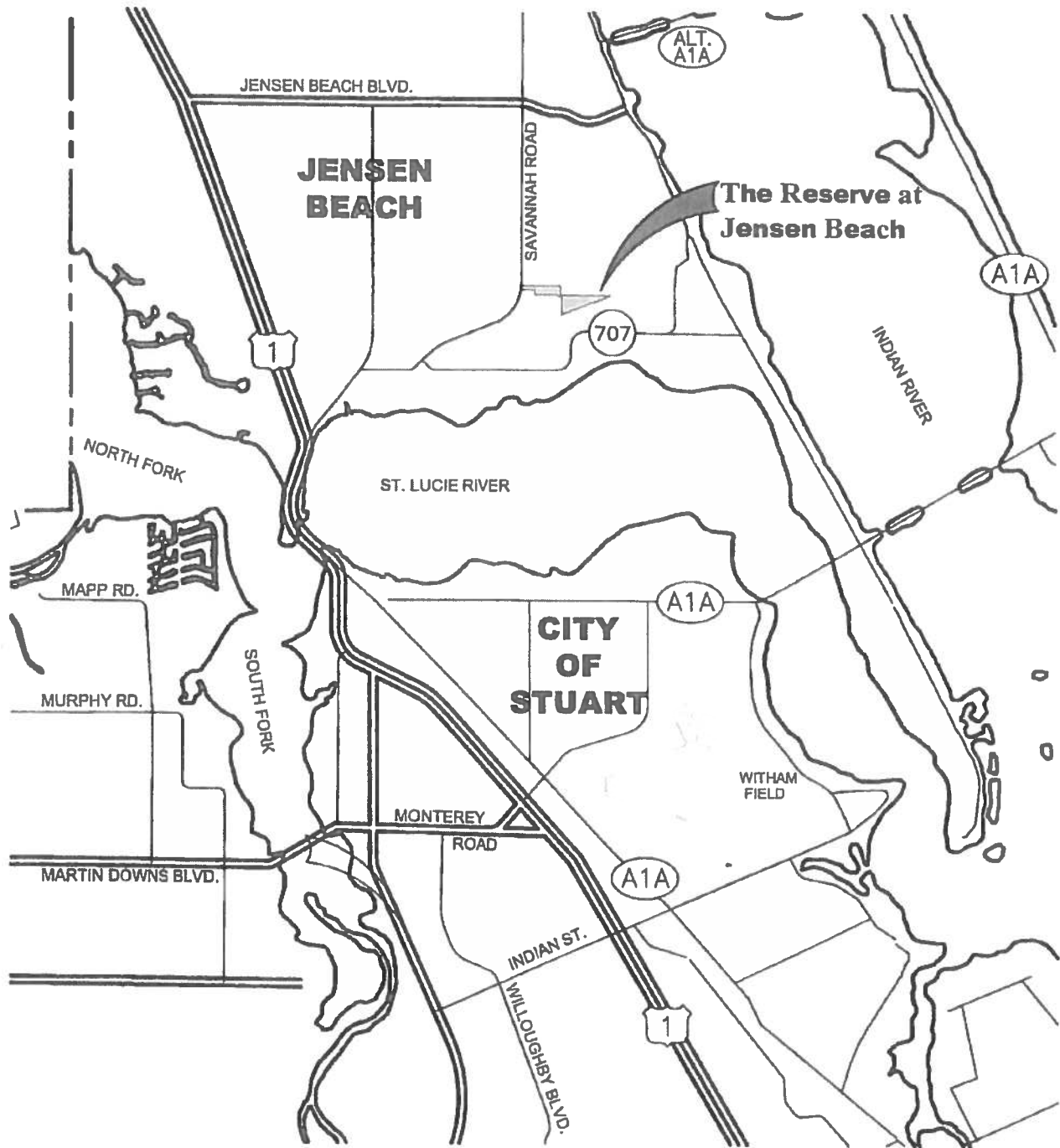
**After the initial five-year monitoring period, the Preserve Areas may be subject to periodic review and, if conditions warrant, will be subject to further monitoring and maintenance to ensure environmental integrity, consistent with the provisions of this Plan.**

- 10.3 Maintenance Criteria - The threshold for maintenance requirements will be any area that has five percent or more total vegetative coverage by nuisance or exotic vegetation at any time during the monitoring period. Additionally, any areas that have not achieved 80 percent coverage with desirable plant species at the end of two years will be recommended for supplemental planting to meet this criterion.**
- 10.4 Inspections - Martin County is authorized to inspect any County regulated site or appurtenance. Duly authorized representatives of Martin County may, at any time, upon presenting proper identification, enter upon and shall be given access to any premises for the purpose of such inspection.**

## **11.0 ENFORCEMENT**

**Martin County shall have the right to enforce the provisions of this PAMP through any available administrative or civil proceeding, which may result in penalties. Restoration of habitat and other remedies, such as fines and fees covering staff time, may be required of any person, corporation or other entity found in violation of any of the provisions of this PAMP or of Article 10 of the Martin County Land Development Regulations.**

# Location Map



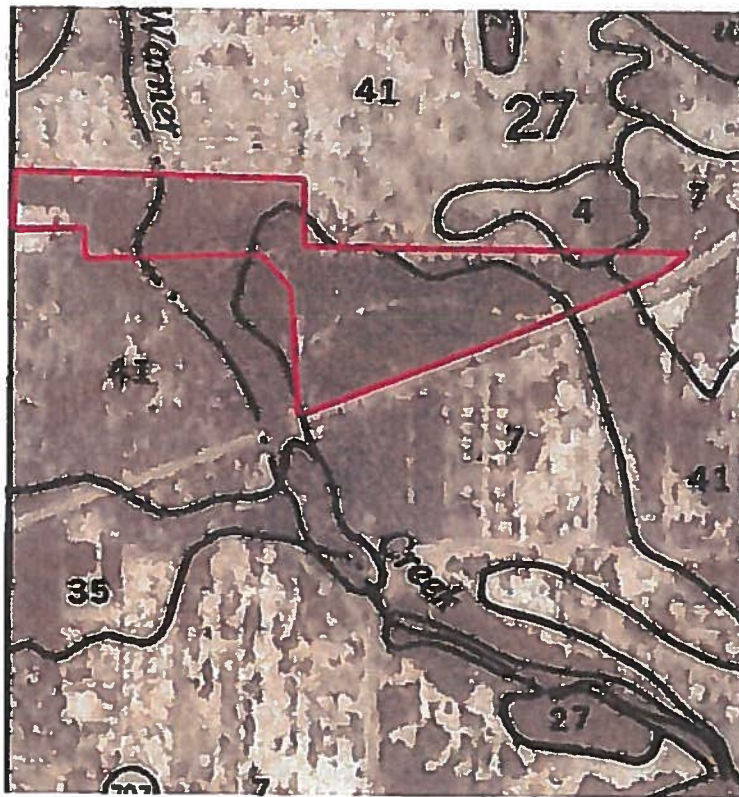
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**Savannah Apartments**  
 Martin County, Florida





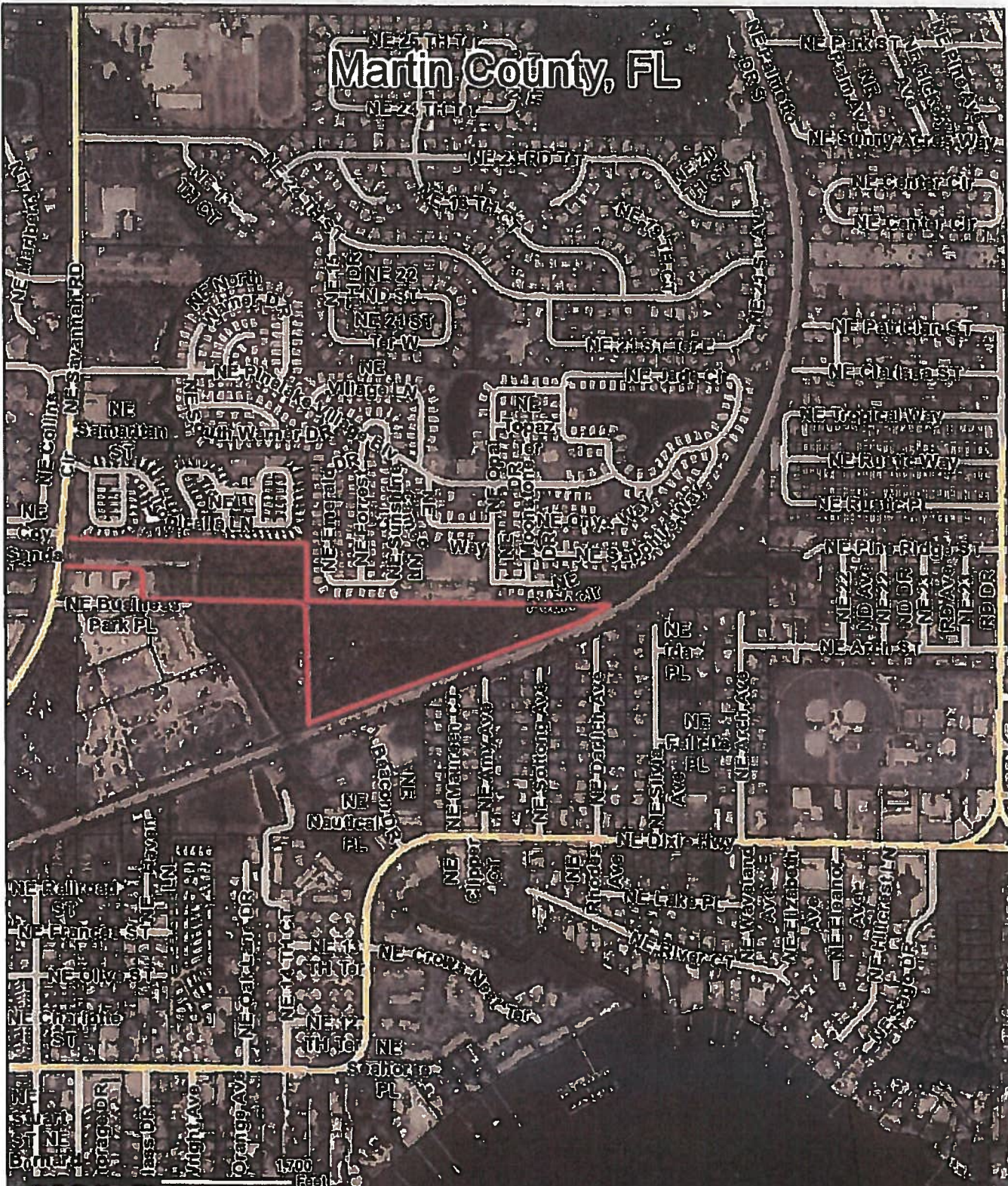
[illegible]

Author: Martin County GIS  
Copyright: Copyright: 2015





# Martin County, FL

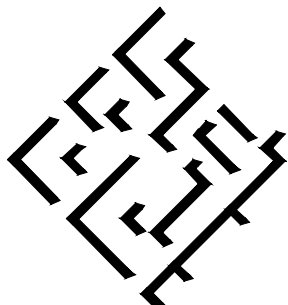






- FLORIDA LAND COVER CLASSIFICATION SYSTEM**
- 1312-SCRUBBY FLATWOODS
  - 1213-SAND PINE SCRUB
  - 1311-MESIC FLATWOODS
  - 73-BRAZILIAN PEPPER
  - 72-MELALEUCA
  - 422-DITCH (OSW)



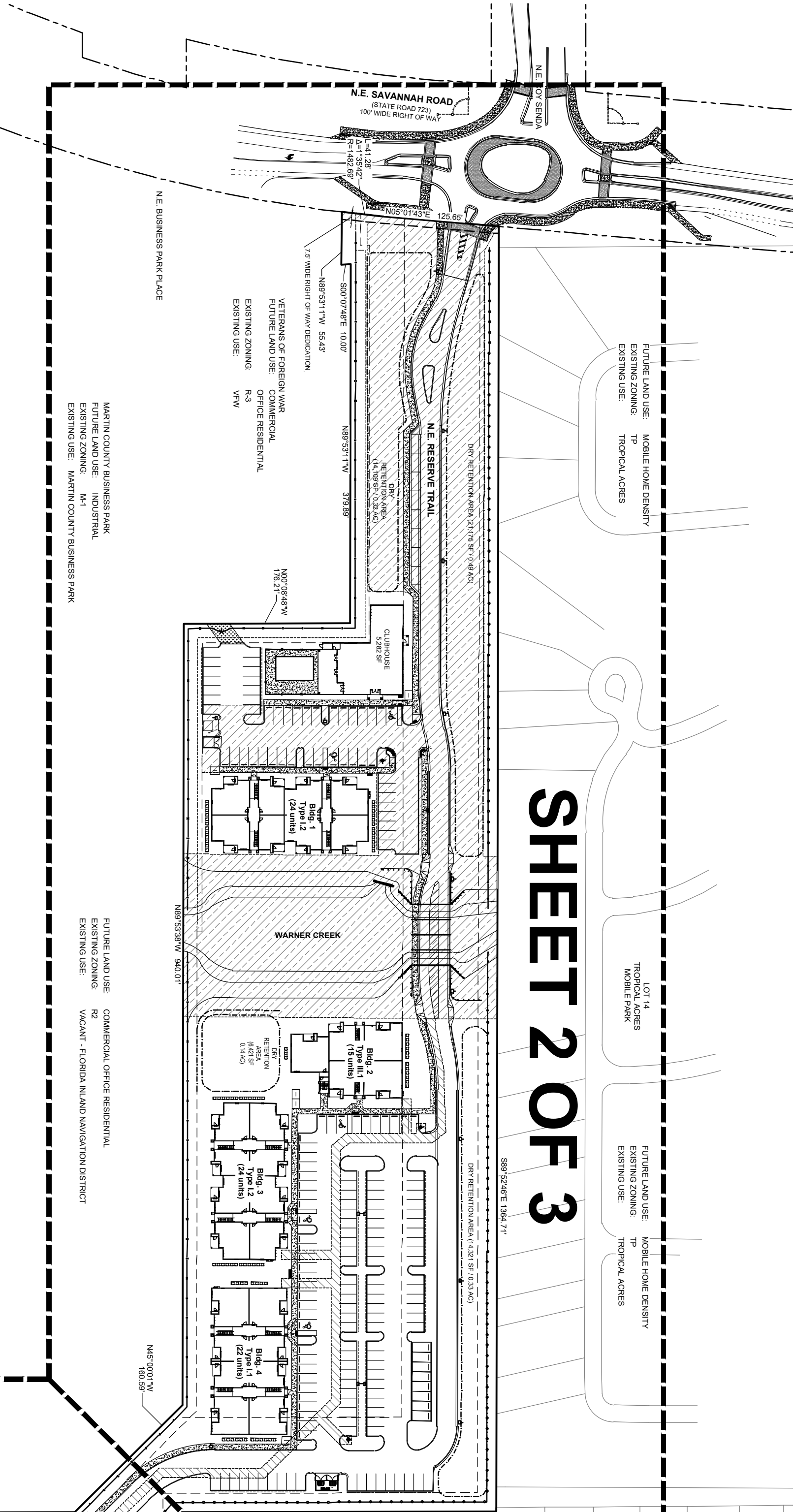


## Lucido & Associates

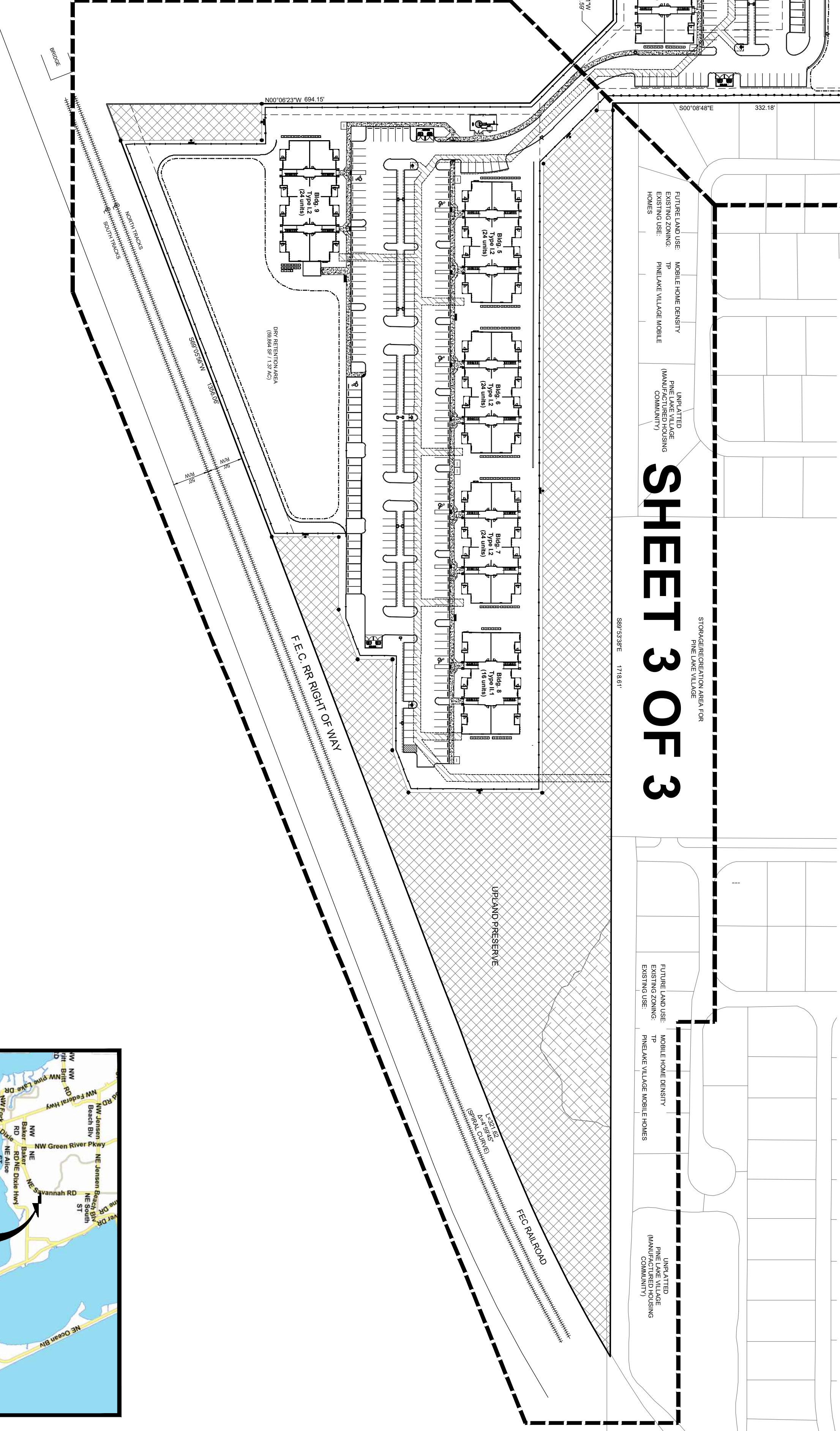
### Land Planning / Landscape Architecture

701 E Ocean Blvd., Stuart, Florida 34984 (772) 220-2106, Fax (772) 223-0220  
100 Avenue A Suite 2A, Fort Pierce, Florida 34950 (772) 467-1301, Fax (772) 467-1303  
827 North Thornton Avenue, Orlando, Florida 32803 (407) 898-9521, Fax (407) 898-9788

# SHEET 2 OF 3



# SHEET 3 OF 3



## COR-2 SITE DATA

Future Land Use: Commercial Office Residential  
Total Site Area: 379,383 sf 8.71 ac  
Total Units: 85 units  
Product Type: Multi-family

Gross Density: 10 upa  
Max. Building Coverage: 40%  
Max. Building Height: 30'  
Garage: 30'  
Clubhouse: 30'  
Apartment: 30'  
Min. Structure Setback: 35'  
front  
rear (one story) 20'  
side (one story) 10'  
side (three story) 30'  
Minimum Building Separation: 15'  
Firewise Defensible Space: 30'

## RM-8 SITE DATA

Future Land Use: Medium Density Residential  
Total Site Area: 622,908 sf 14.30 ac  
Total Units: 112 units  
Product Type: Multi-family

Gross Density: 8 upa  
Building Coverage: 40%  
Building Height: 40'  
Garage: 40'  
Apartment: 40'  
Min. Structure Setbacks: 25'  
front (Three-Story)  
rear (Three-Story) 30'  
side (Three-Story) 20'  
Minimum Building Separation: 15'  
Firewise Defensible Space: 30'

## OPEN SPACE SITE DATA

Total Site Area: 23.01 ac. (100%)  
Required Open Space: 11.5 ac. (50%)  
Provided Open Space: 14.55 ac. (63.2%)  
Landscape Areas: 5.97 ac.  
Retention Areas: 2.66 ac.  
Upland Preserve: 5.50 ac.  
Excess Upland Restoration: 0.42 ac.

## PARKING DATA

Total Units: 197 units  
Required Parking @ 2 spaces per unit: 394 spaces  
Provided Parking: 430\*  
-Standard: 388  
-Garage: 32 (Includes 1 Handicap)  
-Handicap: 10  
\* Parking provided is within 10% of the parking required per Section 4.623A.2

## PRESERVE DATA

Total Site Area: 1,002,291 sf 23.01 ac.  
Other Surface Waters\*: 59,242 sf 1.36 ac.  
Net Uplands: 943,049 sf 21.65 ac.  
Required Preserve @ 25%: 235,660 sf 5.41 ac.  
Provided Preserve: 257,875 sf 5.92 ac.  
Sand Pine Scrub: 217,800 sf 5.00 ac.  
Mesic Flatwoods: 21,780 sf 0.50 ac.  
Preserve Restoration: 18,295 sf 0.42 ac.  
\* As Determined by SFWMD

## General Notes

1. Stormwater Management areas shall be maintained with planted native vegetation in perpetuity.
2. Preserve areas may not be altered except in compliance with the preserve area management plan approved by Martin County.
3. All exotic plant species shall be removed and all required landscaping for an affected phase shall be installed prior to the issuance of a Certificate of Occupancy. (Refer to CO Phasing Plan)
4. Upland preserves shall be protected from encroachment, construction and other activities by providing a minimum 10' setback from all proposed structures. Excavation and fill activities must maintain a minimum five (5) feet setback from preserve areas. The maximum slope of fill adjacent to the setback shall not exceed one (1) foot vertical to four (4) feet horizontal.
5. All sidewalks to be a minimum of 6' in width.
6. All buildings to have fire sprinklers.
7. No primary structure or attached secondary structure shall be constructed within the 30' defensible space.
8. Preserve Area Signs and Boundary Markers as shown on this plan shall be installed per the approved PAMP.
9. Stormwater Management areas to be maintained with planted native vegetation, in perpetuity.

## BUILDING MATRIX

# Units	# Units	# Units	# Units	Type	Consists of:	Max Height	Proposed Height
Building	1st Floor	2nd Floor	3rd Floor	Total			per Section 3.14 LDR
Building 1	8	8	8	24	1 & 2 Bedroom Units	30'	30'
Building 2	5	5	5	15	1 & 3 Bedroom Units	30'	30'
Building 3	8	8	8	24	1 & 2 Bedroom Units	30'	30'
Building 4	8	8	6	22	1 & 3 Bedroom Units	30'	30'
Building 5	8	8	8	24	1 & 2 Bedroom Units	40'	30'
Building 6	8	8	8	24	1 & 2 Bedroom Units	40'	30'
Building 7	8	8	8	24	1 & 2 Bedroom Units	40'	30'
Building 8	6	6	4	16	2 & 3 Bedroom Units	40'	30'
Building 9	8	8	8	24	1 & 2 Bedroom Units & Shop	40'	30'
				197			

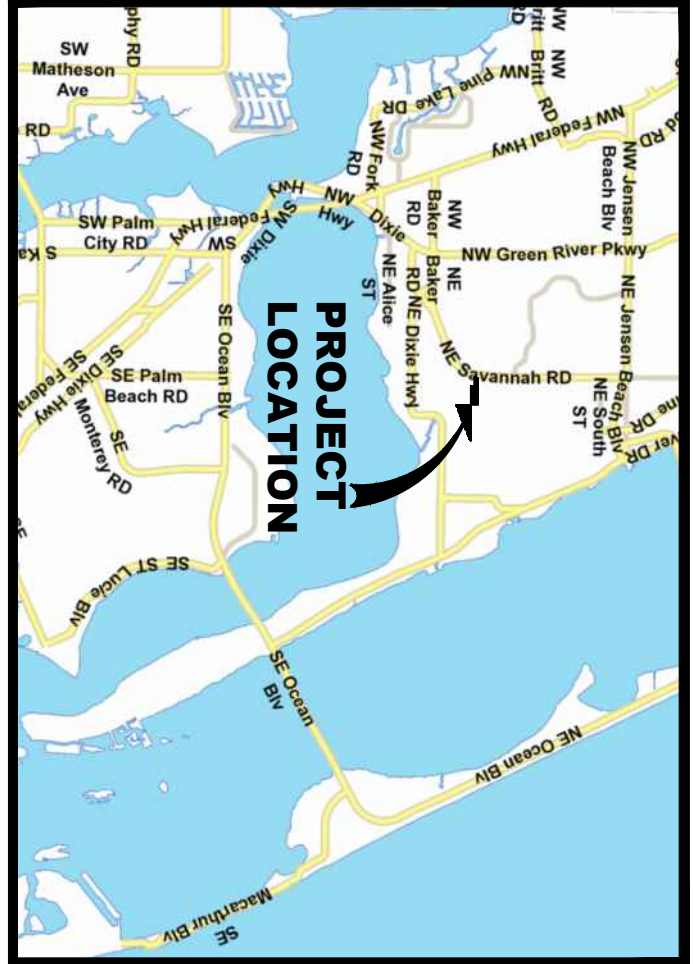
Clubhouse	8 Car	30'	17' - 2"
Garage 1	8 Car including Handicap	30'	11'
Garage 2	8 Car	30'	11'
Garage 3	8 Car	30'	11'
Garage 4	8 Car	30'	11'

## Floor Plan Information

	Square Feet (Gross)
1 Bedroom Plan	939
2 Bedroom Plan	1,303
3 Bedroom Plan	1,471
Clubhouse	5,221

## LEGEND

	Upland Preserve
	Excess Upland Restoration Area
	Blanket Easement to Martin County for Drainage, Access and Utilities
	Martin County Utility Easement



## Location Map

### Parcel Identification Numbers

Z7-31-41-005-000-0020-0  
Z7-31-41-007-000-00750-0  
Z7-31-41-007-000-00750-0

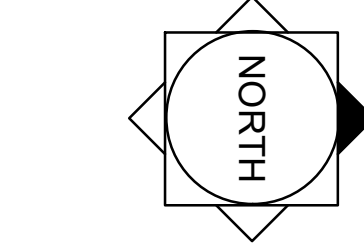
### SCALE



## The Reserve at Jensen Beach

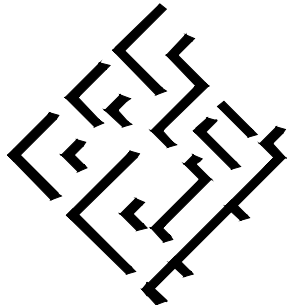
### Revised Master / Final Site Plan

Jensen Beach, Martin County, Florida



Scale: 1" = 100'  
Drawn By: S.L.S.  
Checked By: M.C.  
Computer File: --  
Project Station: 18-0710  
Project Number: 08302018  
Revision: 6/19/19 12:30 PM  
Sheet: 1 of 3

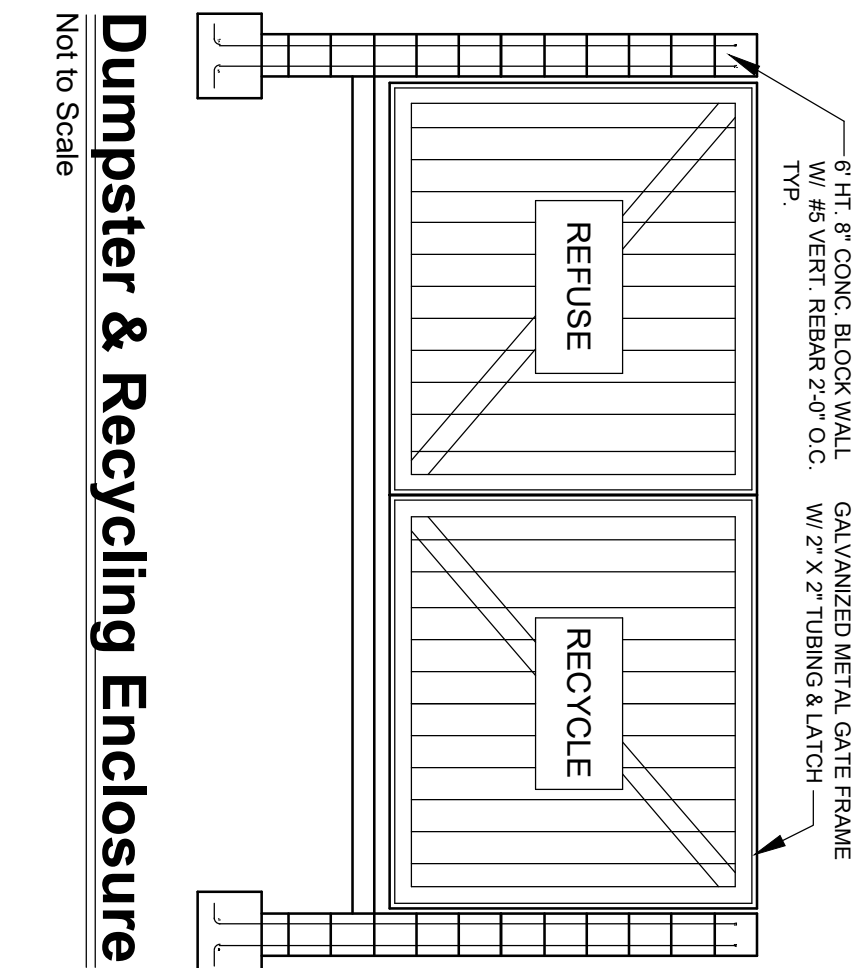
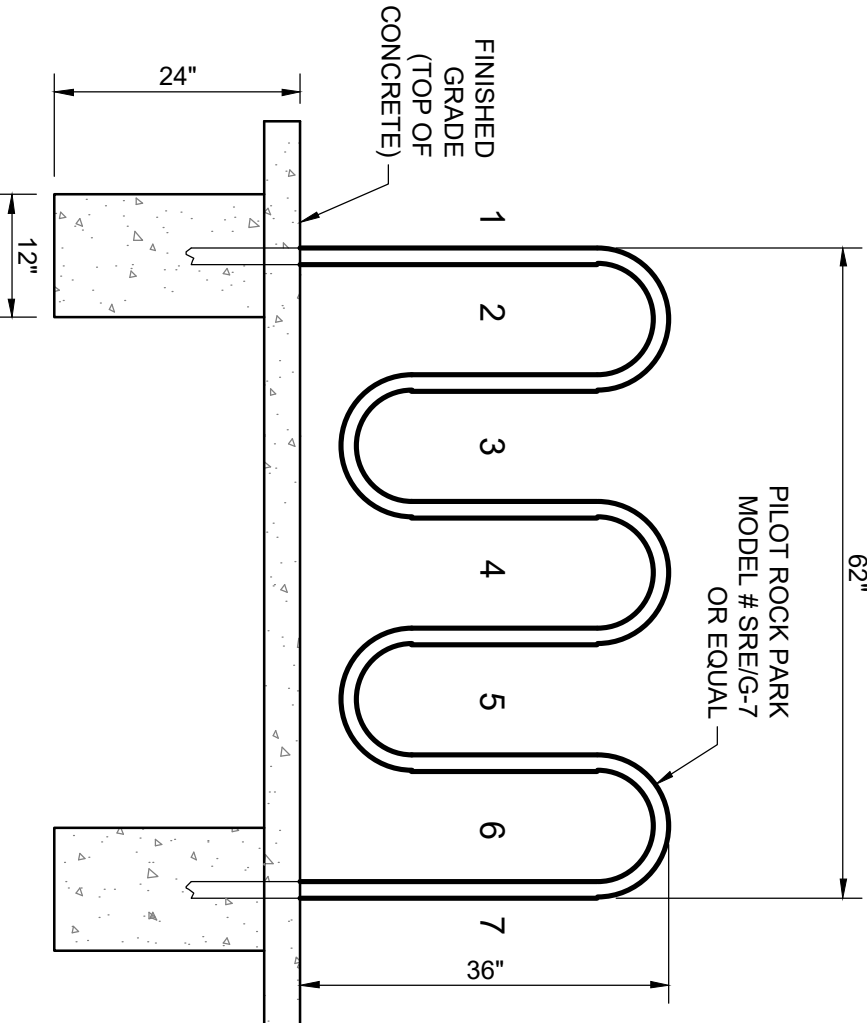
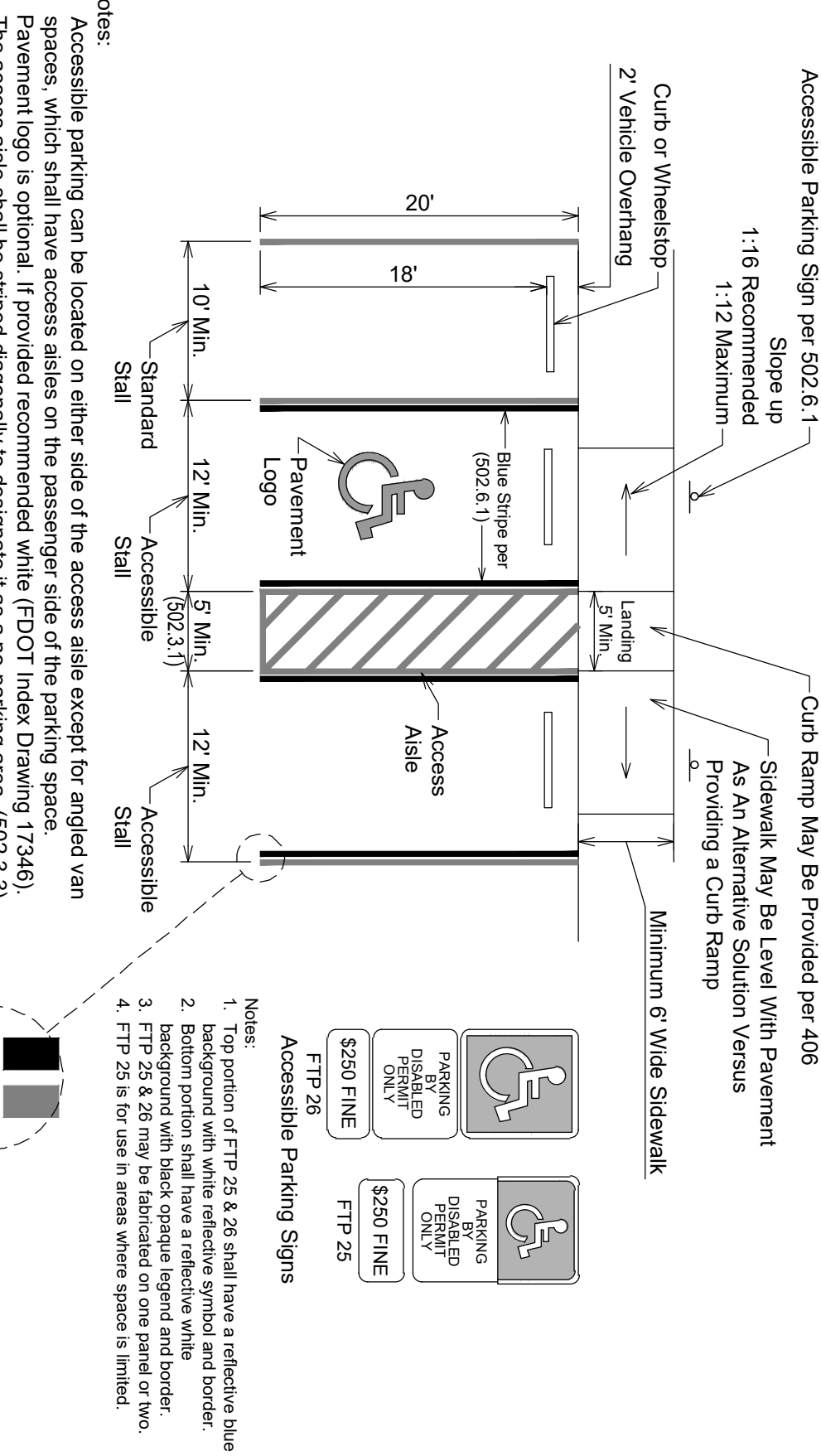
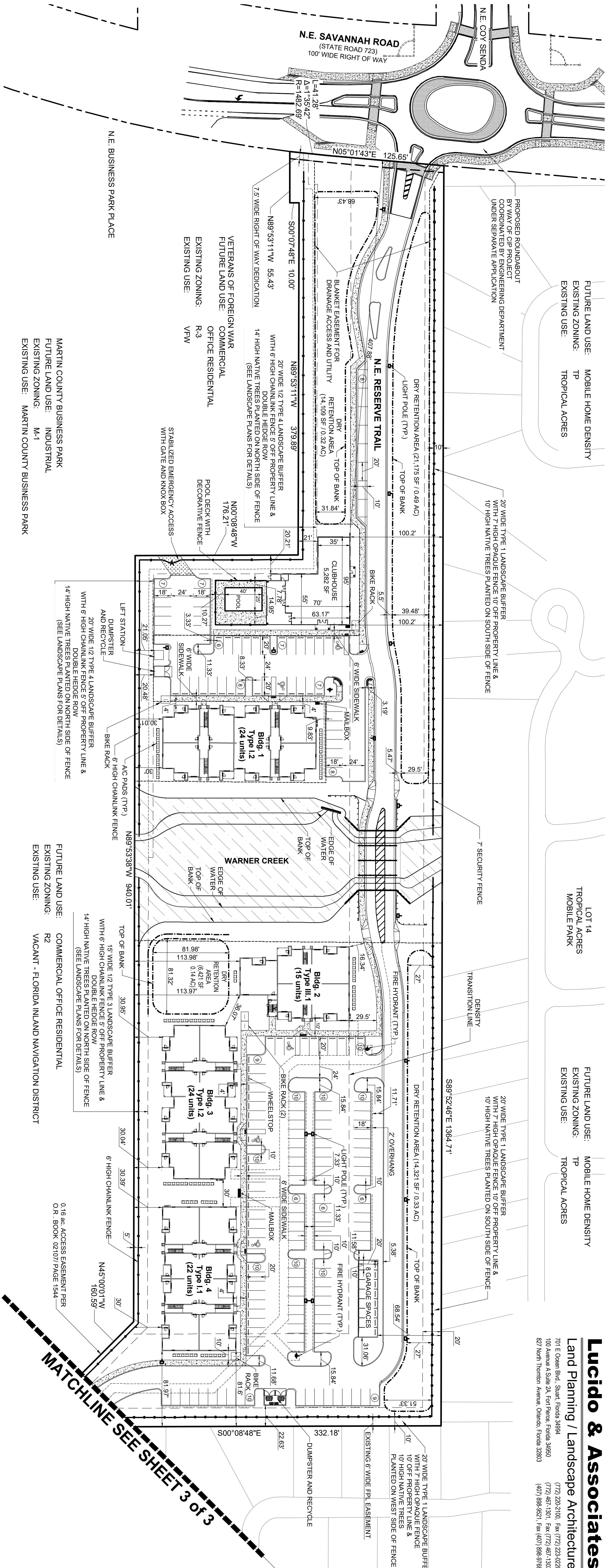




# Lucido & Associates

Land Planning / Landscape Architecture

701 E Ocean Blvd., Stuart, Florida 34994 (772) 220-2100 Fax (772) 223-0220  
100 Avenue A Suite 2A, Fort Pierce, Florida 34950 (772) 467-1301 Fax (772) 467-1303  
827 North Thonmon Avenue, Orlando, Florida 32803 (407) 886-9521 Fax (407) 888-9788







# Lucido & associates

August 30, 2018

Via Certified Mail  
Return Receipt Requested  
7005 1160 0004 1896 1704

Mr. Allen Webb  
United States Fish & Wildlife Service  
1339 20<sup>th</sup> Street  
Vero Beach, FL 32960


RE: The Reserve at Jensen Beach, Martin County, Florida  
(Our Ref. #18-021)

Dear Mr. Webb:

The above-referenced project is currently under review by the Martin County Growth Management Department. Pursuant to Martin County's request to coordinate listed species protection with your office, please find enclosed the Preserve Area Management Plan and the proposed final site plan.

This letter and the returned receipt from your office will be provided to Martin County to document coordination with your agency. Please review the materials enclosed and provide comments, if applicable. If you have questions, please feel free to contact me.

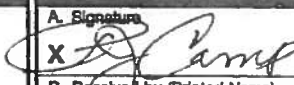
Sincerely,

  
Morris A. Crady, AICP  
Senior Vice President

/s/  
Enclosure

CC: Darryl Deleeuw, Martin County Environmental Administrator (w/o enc.)  
Jane Chabre, FFWCC (w/o enc.)

Lucido & Associates 701 SE Ocean Boulevard  
Tel 772.220.2100 Fax 772.223.0220 web www

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"><li>Complete items 1, 2, and 3.</li><li>Print your name and address on the reverse so that we can return the card to you.</li><li>Attach this card to the back of the mailpiece, or on the front if space permits. #18-02134</li></ul>	<p>A. Signature  <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>
1. Article Addressed to: MR. Allen Webb United States Fish & Wildlife Svs 1339 20th Street Vero Beach, FL 32960	<p>B. Received by (Printed Name) J. Camp</p> <p>C. Date of Delivery 9-4-18</p>
	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
2. Article Number (Transfer from service label) 7005 1160 0004 1896 1704	<p>3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>

9590 9402 3243 7196 1056 34

PS Form 3811 July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

# Lucido & associates

August 30, 2018

Via Certified Mail,  
Return Receipt Requested  
7005 1160 0004 1896 1711

Ms. Jane Chabre  
Florida Fish & Wildlife Conservation Commission  
Mailbox 5B5  
620 S. Meridian Street  
Tallahassee, FL 32399-1600

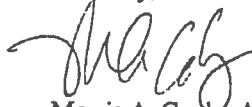
RE: The Reserve at Jensen Beach, Martin County, Florida  
(Our Ref. #18-021)

Dear Ms. Chabre:

The above-referenced project is currently under review by the Martin County Growth Management Department. Pursuant to Martin County's request to coordinate listed species protection with your office, please find enclosed the Preserve Area Management Plan and the proposed final site plan.

This letter and the returned receipt from your office will be provided to Martin County to document coordination with your agency. Please review the materials enclosed and provide comments, if applicable. If you have questions, please feel free to contact me.

Sincerely,

  
Morris A. Crady, AICP  
Senior Vice President

/s/  
Enclosure

CC: Darryl Deleeuw, Martin County Environmental Administrator (w/o enc.)  
Allen Webb, USFWS (w/o enc.)

Lucido & Associates 701 SE Ocean Boulevard  
Tallahassee, FL 32309  
Tel: 772.220.2100 Fax: 772.223.0220 web

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"><li>Complete items 1, 2, and 3.</li><li>Print your name and address on the reverse so that we can return the card to you.</li><li>Attach this card to the back of the mailpiece, or on the front if space permits. 18-021 SL</li></ul>	<p>A. Signature X  <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery Chelsey Parkhurst 9/5/18</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to: Ms. Jane Chabre Florida Fish &amp; Wildlife Conservation Comm. Mailbox 5B5 620 S. Meridian St. Tallahassee, FL 32399-1600</p>	
<p>2. Article Number (Transfer from service label) 7005 1160 0004 1896 1711</p>	
<p>3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p>	<p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>



## SOUTH FLORIDA WATER MANAGEMENT DISTRICT

April 25, 2018

*\* Delivered via email*

David Christenson  
Davelu LLC  
759 South Federal Highway  
Stuart, FL 34994

**Subject: River's Edge Apartments**  
**Application No. 180410-464**  
**Informal Wetland Determination No. 43-100226-P**  
**Martin County**

Dear Mr. Christenson:

The District reviewed your request for an informal determination of the jurisdictional wetland and other surface water boundaries within the subject property, which is located as shown on the attached Exhibit 1. A site inspection was conducted on April 19, 2018.

Based on the information provided and the results of the site inspection, jurisdictional other surface waters as defined in Chapter 62-340, Florida Administrative Code, exist on the property. Exhibit 2, attached, identifies the boundaries of the property inspected and the approximate landward limits of the other surface waters.

This correspondence is an informal jurisdictional wetland determination pursuant to Section 373.421(6), Florida Statutes, and Section 7.3 of Environmental Resource Permit Applicant's Handbook Volume I. It does not bind the District, its agents or employees, nor does it convey any legal rights, expressed or implied. Persons obtaining this informal jurisdictional determination are not entitled to rely upon it for purposes of compliance with provision of law or District rules.

Sincerely,

Barbara Conmy  
Section Leader

c: Daniel Saskowsky, Daniel M Saskowsky Environmentalconsultant \*  
Lucido and Associates \*



### Exhibits

The following exhibits to this permit are incorporated by reference. The exhibits can be viewed by clicking on the links below or by visiting the District's ePermitting website (<http://my.sfwmd.gov/ePermitting>) and searching under this application number 180410-464.

Exhibit 1

Exhibit 2



**SASKOWSKY & ASSOCIATES, INC.**  
**ECOLOGICAL CONSULTANTS**  
**ECOLOGICAL SURVEYS & ASSESSMENTS**  
**PRESERVE AREA MANAGEMENT PLANS**  
**HABITAT RESTORATION**  
**WILDLIFE SURVEYS**

**GOPHER TORTOISE/LISTED SPECIES SURVEY:**  
**THE RESERVE@JENSEN BEACH**  
**Jensen Beach, Florida**

**INTRODUCTION**

A gopher tortoise/listed species survey was conducted on the subject property between July 25 and August 2, 2018. The Gopher tortoise survey was conducted in accordance with the scientific methodology and techniques outlined in *Wildlife Methodology Guidelines* and in *Ecology & Habitat Protection Needs of Gopher Tortoise Populations Found on Lands Slated for Development in Florida* published by the Florida Wildlife Commission (FWC). Also utilized was *Procedures for Conducting Accurate Burrow Surveys* published by Ashton Biodiversity Research and Preservation Institute.

**METHODOLOGY**


Methodology employed was parallel line transects walked at ten-meter intervals or as otherwise adjusted based on specific site conditions.

**SITE CONDITIONS**

The approximately 22-acre site consists of Sand Pine Scrub (FLCCS #1213), Mesic Flatwoods (FLCCS #1311), OSWs (other surface waters), and disturbed/cleared areas.

**RESULTS**

The survey located and flagged 63 potentially occupied gopher tortoise burrows. During the gopher tortoise survey, a representative sampling of lichens was conducted when encountered. There were no perforated lichens (*Cladonia perforata*) observed during the tortoise survey. In addition, four-petal paw-paw (*Asimina tetramera*) was not encountered during the gopher tortoise survey.

Signed:   
Daniel M. Saskowsky, President  
Saskowsky & Associates, Inc.

Date: 8-20-2018

4639 SE Glenridge Trail  
Stuart, Florida 34997

Phone: 772-283-3490 772-708-6641  
e-mail: dsaskowsky@bellsouth.net







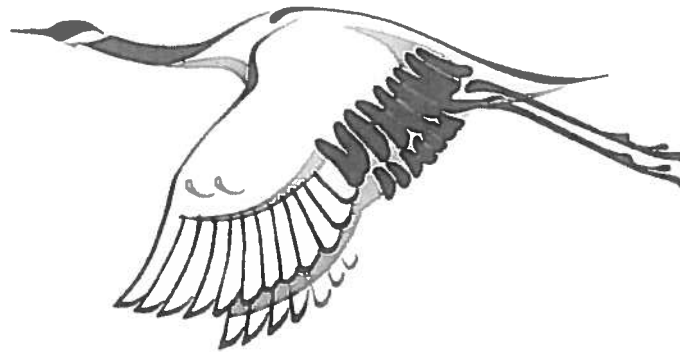


# **RIVER'S EDGE APARTMENTS PROJECT SITE**

JENSEN BEACH, MARTIN COUNTY, FLORIDA

## **FLORIDA SCRUB-JAY SURVEY**

March 2018



**Prepared for:**

**Stephen Cohen, Qualifier, Secretary  
LC Construction Florida, Inc.  
3541 NW 88<sup>th</sup> Drive, Unit 103  
Coral Springs, Florida 33065  
E-Mail: [scohen@capanoinc.com](mailto:scohen@capanoinc.com)**

**Prepared by:**

**Hobe Sound  
Environmental Consultants, Inc.  
9512 S.E. Duncan Street  
Hobe Sound, FL 33455  
(772) 545-3676  
E-Mail: [bobhsenv@gmail.com](mailto:bobhsenv@gmail.com)**

*NOTE: This Report, together with the concepts and design 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 Report without written authorization and adaptation by Hobe Sound Environmental Consultants, Inc. shall be without liability to Hobe Sound Environmental Consultants, Inc.*

**FLORIDA SCRUB-JAY SURVEY**  
**(*Aphelocoma coerulescens coerulescens*)**  
Conducted at  
**RIVER'S EDGE APARTMENTS**

**1.00 INTRODUCTION**

The following Florida Scrub-Jay Report of the LC Construction Florida, Inc., (FKA River's Edge Apartments) project site has been prepared by Hobe Sound Environmental Consultants, Inc. (HSE). The site consists of approximately 23.16 acres of land located south of Jensen Beach Blvd., east of Indian River Drive, north of NE Dixie Highway and west of NE Savannah Road (**Appendix A: Figures 1 - 3 of 8**) in Jensen Beach, Florida. The site is located in Section 27, Township 37S, Range 41E, Jensen Beach, Martin County, Florida. Legal Description for parcel ID number 27-37-41-007-000-00150-0: DESTEUBEN'S, N 5 AC OF S 10 AC OF SW 1/4 OF NW 1/4 (LOT 15) & N 10' OF ELY 660' OF LOT 16 (LESS S 10' OF WLY 660' OF LOT 15) OR 339/502 & THAT PART OF N 1/2 OF SEC 28 ADJ TO W/LN E OF SR 723. Legal Description for parcel ID number 27-37-41-007-000-00161-0: DESTEUBEN'S, THE E 940 OF THE FOLLOWING: LOT 16 (LESS N 10 OF E 660 AND THE S 10' OF THE FOLLOWING: W 660' OF LOT 15 & S 166.25' OF NE 1/4 OF SEC 28-37-41 LYING E OF SR 723. Legal Description for parcel ID number 27-37-41-005-000-00020-0: CLEVELAND'S, LOTS 3 TO 8 INC N OF RY. According to the USGS St. Lucie Inlet, Florida Quadrangle, 7.5 minute series, Topographic Map (**Appendix A: Figure 4 of 8**), elevation of the project site ranges from approximately 4' - 20' NGVD.

Hobe Sound Environmental Consultants, Inc. (HSE) was retained by LC Construction Florida, Inc. to conduct a Florida scrub-jay survey, since all three scrub-jay habitat types are present within the project site. This report documents the methodologies and results of the Florida scrub-jay survey that HSE biologists conducted from 01 March through 05 March 2018.

**2.00 METHODOLOGIES**

HSE biologists conducted a Florida scrub-jay survey according to protocol set forth in *Ecological and Development-Related Habitat Requirements of the Florida Scrub-jay (Aphelocoma coerulescens coerulescens)*, Non-Game Wildlife Program Technical Report #8, Office of Environmental Services, Florida Game and Fresh Water Fish Commission, April 1991 and updated 24 August 2007. HSE biologists established three (3) transect locations (**Appendix A: Figure 5 of 8, Table 1**) within the boundaries of the subject property.

1. Biologists played Florida scrub-jay calls at a total of nine (9) playback stations located along the transects (**Appendix A: Figure 5 of 8**).
2. At each playback station, biologists played scrub-jay territorial scolds, including the female "hiccup" call, for not less than one (1) minute in all four

directions of a compass.

3. The calls were played on a good-quality, hand-held speaker system and broadcast at full volume.
4. The Florida scrub-jay survey was conducted for five (5) consecutive days from 01 March through 05 March 2018.
5. The survey was conducted on calm, clear days.
6. The survey began approximately one (1) hour after sunrise, and was terminated prior to midday (refer to **Appendix B, Florida Scrub-Jay Survey Field Data Sheets**).
7. Biologists traversed the transects by foot.
8. Biologists of HSE mapped the on-site vegetation using the *Florida Land Use, Cover, and Forms Classification System* (FLUCFCS), Handbook, January 1999, Florida Department of Transportation, Surveying and Mapping Office, Geographic Mapping Section (**Appendix A: Figure 6 of 8**).
9. Florida scrub-jay habitat types (I, II or III) were mapped (**Appendix A: Figure 7 of 8**), if appropriate, based upon the following criteria:
  - (a) Type I habitat is any upland plant community in which the substrate contains 15 percent or more scrub oak species. This habitat typically includes xeric oak scrub, scrubby pine flatwoods, scrubby coastal strand, or sand pine scrub.
  - (b) Type II habitat is any community not meeting the definition of Type I habitat in which one or more scrub oak species is represented.
  - (c) Type III habitat is any upland or seasonally dry wetland within 1/4 mile of any area designated as Type I or Type II habitat.
10. The project site soils (**Appendix A: Figure 8 of 8**) were mapped according to the *Soil Survey of Martin County Area, Florida*, Soil Conservation Service, March 1980 and the USDA Natural Resource Conservation Service, Web Soil Survey (<http://websoilsurvey.sc.egov.usda.gov/> ).



### 3.00 RESULTS

#### 3.01 Scrub-jay Observations

No scrub-jays were observed within the project site, although there are approximately 12.22 acres of Type I, 3.42 acres of Type II and 7.52 acres of Type III habitat on the project site.

#### 3.02 Site Vegetation

Vegetation associations present within the project boundaries were mapped using Levels II and III of FLUCFCS. The classifications used represent the closest facsimile possible to the natural community present. The FLUCFCS map is depicted in Figure 6 of 8. Classifications depicted on the map are described below.

##### 3.02.01 411 - Pine Flatwoods (+/- 3.42 acres)

This designation covers a small portion within the south-central portion of the southern parcel. Vegetation includes slash pine (*Pinus elliottii*), cabbage palm (*Sabal palmetto*), saw palmetto (*Serenoa repens*), Brazilian pepper (*Schinus terebinthifolius*), muscadine grapevine (*Vitis rotundifolia*), earleaf acacia (*Acacia auriculiformis*), melaleuca (*Melaleuca quinquenervia*), rosary pea (*Abrus precatorius*), running oak (*Quercus pumila*), sand live oak (*Quercus geminata*), laurel oak (*Quercus laurifolia*) and tallow wood (*Ximenia americana*).

##### 3.02.02 413 - Sand Pine (+/- 1.71 acres)

This classification can be found in the northern parcel just north of the ditch. The canopy is dominated by sand pine (*Pinus clausa*). Other vegetation found within this classification include saw palmetto, cabbage palm, Florida tasselflower (*Emilia fosbergii*), greenbrier (*Smilax sp.*), slash pine, sand live oak, live oak (*Quercus virginiana*), scrub oak (*Quercus inopina*), myrtle oak (*Quercus myrtifolia*), Darlington oak (*Quercus hemisphaerica*), rosary pea, umbrella tree (*Schefflera actinophylla*), prickly pear (*Opuntia humifusa*) and tallow wood.

##### 3.02.03 421 - Xeric Oak (+/- 10.51 acres)

This designation encompasses about half the site and is dominated by various oaks such as running oak, sand live oak, myrtle oak, scrub oak, live oak and Darlington oak. Other vegetation found within this classification includes but is not limited to both slash and sand pine, saw palmetto, tallow wood, cabbage palm, Brazilian pepper, shiny lyonia (*Lyonia lucida*), perforated reindeer lichen (*Cladonia perforata*), large-flowered false rosemary (*Conradina grandiflora*), nodding pinweed (*Lechea cernua*), greenbrier and muscadine grapevine.

**TABLE I. FLORIDA SCRUB-JAY CALL STATION LOCATIONS FOR RIVER'S EDGE APARTMENTS PROJECT SITE**

Station ID #	GPS coordinates	GPS coordinate	distance from previous station
TRANSECT #1			
T1-CS1	LATITUDE: 27°13'38.870"	LONGITUDE: -80°14'10.393"	0'
T1-CS2	LATITUDE: 27°13'38.675"	LONGITUDE: -80°14'06.930"	313.25'
T1-CS3	LATITUDE: 27°13'37.318"	LONGITUDE: -80°14'03.618"	329.47'
TRANSECT #2			
T2-CS1	LATITUDE: 27°13'37.970"	LONGITUDE: -80°13'58.701"	450.46'
T2-CS2	LATITUDE: 27°13'35.090"	LONGITUDE: -80°13'56.379"	361.66'
T2-CS3	LATITUDE: 27°13'32.494"	LONGITUDE: -80°13'55.245"	280.48'
TRANSECT #3			
T2-CS1	LATITUDE: 27°13'34.560"	LONGITUDE: -80°13'51.033"	433.74'
T2-CS2	LATITUDE: 27°13'33.945"	LONGITUDE: -80°13'45.485"	502.91'
T2-CS3	LATITUDE: 27°13'35.291"	LONGITUDE: -80°13'39.401"	567.49'

**3.02.04**      **422 - Brazilian Pepper (+/- 2.40 acres)**

This designation is located mostly around the edges of the project site. Vegetation includes Brazilian pepper, cabbage palm, grapevine, greenbrier and swamp fern (*Blechnum serrulatum*).

**3.02.05**      **422/424 - Brazilian Pepper and Melaleuca (+/- 0.93 acres)**

This category surrounds the on-site wetland. Additional vegetation includes but is not limited to cabbage palm, saw palmetto, greenbrier and muscadine grapevine, with minimal swamp fern.

**3.02.06**      **510 - Ditch (+/- 1.99 acres)**

This designation includes linear water bodies, including ditches. There are currently three (3) ditches that occur on-site, one of which is Warner Creek. Vegetation includes Brazilian pepper, melaleuca, grapevine, greenbrier, swamp fern, saw palmetto and cabbage palm.

**3.02.07**      **619 - Exotic Mixed Hardwoods (± 0.64 acres)**

This is a small wetland dominated by melaleuca, Brazilian pepper, earleaf acacia, rosary pea and swamp fern with minimal slash pine.

**3.02.08**      **740 - Disturbed Lands (+/- 1.56 acres)**

This designation includes the property behind Veterans of Foreign Wars clubhouse in the north parcel and the eastern tip of the south parcel. These areas have minimal native vegetation and contain a large amount of trash. Vegetation observed in these areas include Brazilian pepper, saw palmetto, creeping oxeye (*Sphagneticola trilobata*), swamp fern, umbrella tree, greenbrier and rosary pea.

There are approximately 12.22 acres of Type I habitat with various oak species at ±15% coverage located within the xeric oak and sand pine habitats. Approximately 3.42 acres of Type II habitat exists on-site, however there are very few open canopy areas and minimal high quality scrub-jay habitat within this classification. The project site also contains 7.52 acres of Type III scrub-jay habitat.

**4.00**      **CONCLUSIONS**

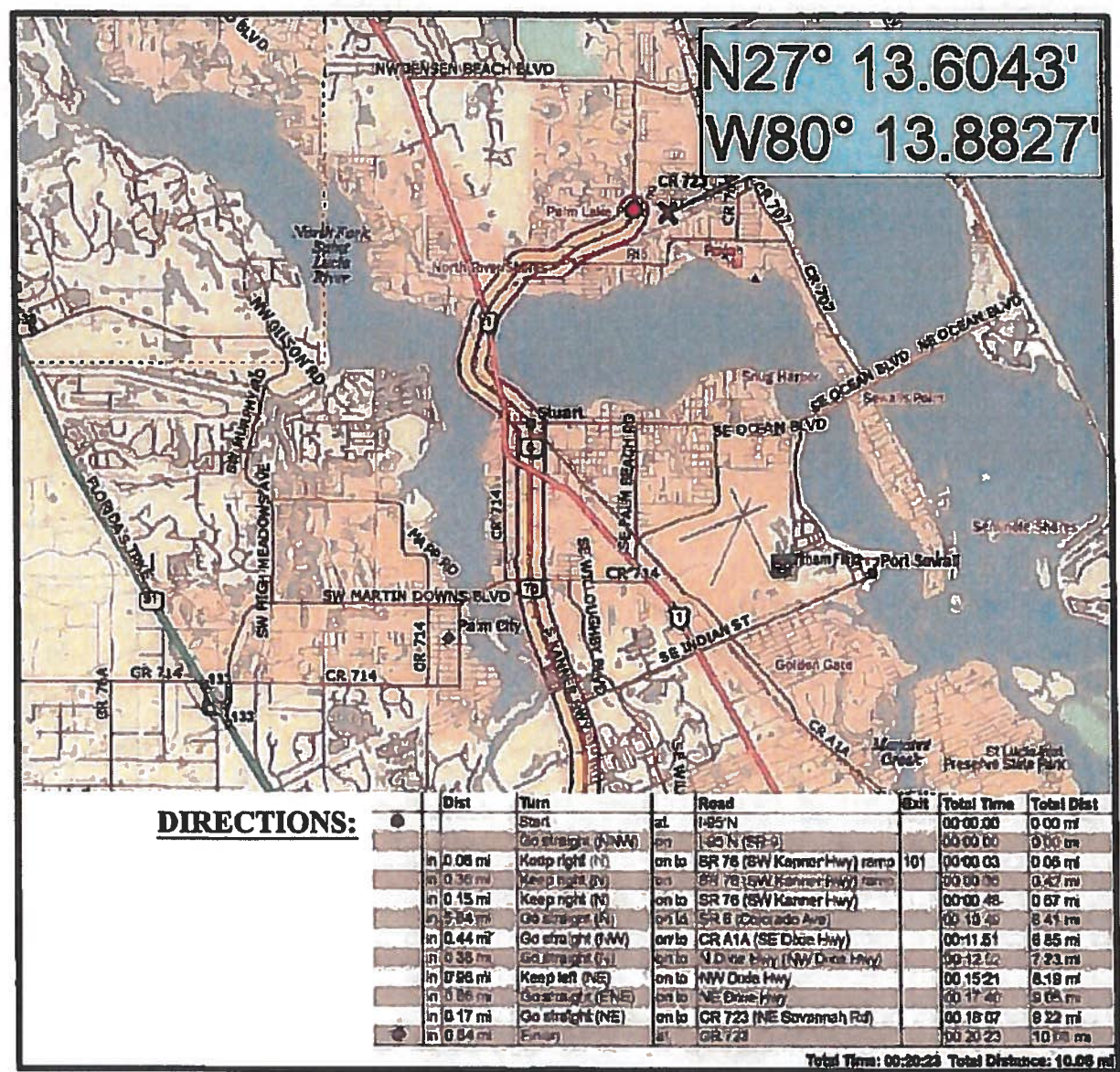
- No scrub-jays were located on-site during the five-day scrub-jay survey.
- About half of the project site contains good quality Type I scrub-jay habitat. The other half of the site is made up of Type II & III habitat that has minimal open canopy and has been encroached by exotic species.

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NOT A SURVEY



SCALE: 1" = 8,000'



**DIRECTIONS:**

Dist	Turn	at	Road	Exit	Total Time	Total Dist
Start	Go straight (N)	at	145° N		00:00:00	0.00 mi
in 0.06 mi	Keep right (N)	on to	BR 78 (SW Kanner Hwy) ramp	101	00:00:03	0.06 mi
in 0.36 mi	Keep right (N)	on to	SR 78 (SW Kanner Hwy)		00:00:48	0.67 mi
in 0.15 mi	Go straight (N)	on to	CR 714 (SE Dade Hwy)		00:11:51	8.85 mi
in 0.44 mi	Go straight (N)	on to	CR 714 (SE Dade Hwy)		00:12:12	7.23 mi
in 0.38 mi	Keep left (NE)	on to	CR 723 (NE Savannah Rd)		00:18:07	8.22 mi
in 0.86 mi	Go straight (NE)	on to	CR 723 (NE Savannah Rd)		00:20:23	10.08 mi
in 0.17 mi	Go straight (NE)	on to	CR 723 (NE Savannah Rd)			
in 0.84 mi	End of	at	CR 723			

Total Time: 00:20:23 Total Distance: 10.08 mi

SOURCE: DELORME STREET ATLAS USA 2015 PLUS

PARCEL ID # 27-37-41-005-000-00020-0, 27-37-41-007-000-00150-0 AND 27-37-41-007-000-00161-0

MARTIN COUNTY FLORIDA	SEC.	TWP.	R.	HSE JOB NO.: 18-009.01	DRAWING NAME: 01- VICINITY.DWG	DATE: 05 MARCH 2018	APPENDIX A FIGURE: 1 OF 8
	27	37S	41E				
LATITUDE: N27° 13' 34.680"		LONGITUDE: W80° 13' 52.202"			DESIGNED BY: RLW	DRAWN BY: ACE	CHECKED BY: FRP
RIVER'S EDGE APARTMENTS JENSEN BEACH, MARTIN COUNTY, FLORIDA FLORIDA SCRUB-JAY ( <i>Aphelocoma coerulescens</i> ) SURVEY PROJECT VICINITY MAP					H S E Hobe Sound Environmental Consultants Inc. 9512 SE Duncan Street Hobe Sound, FL. 33455 (772) 545-3676, E-mail: bobhsenv@gmail.com		



**H S E** Hobe Sound Environmental Consultants Inc.  
9512 SE Duncan Street  
Hobe Sound, FL. 33455  
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NOT A SURVEY



NORTH



SCALE: 1" = 500'



SOURCE: 2016 MARTIN COUNTY AERIAL PHOTOGRAPH, FDOT, SIDS  
BOUNDARY SOURCE: CAPTEC

PARCEL ID # 27-37-41-005-000-00020-0, 27-37-41-007-000-00150-0 AND 27-37-41-007-000-00161-0

MARTIN COUNTY FLORIDA	SEC.	TWP.	R.	HSE JOB NO.: 18-009.01	DRAWING NAME: 03-AERAIL.DWG	DATE: 05 MARCH 2018	APPENDIX A FIGURE: 3 OF 8
	27	37S	41E				
LATITUDE: N27° 13' 34.680"			LONGITUDE: W080° 13' 52.202"		DESIGNED BY: RLW	DRAWN BY: ACE	CHECKED BY: FRP

RIVER'S EDGE APARTMENTS  
JENSEN BEACH, MARTIN COUNTY, FLORIDA  
FLORIDA SCRUB-JAY (*Aphelocoma coerulescens*) SURVEY  
2016 AERIAL PHOTOGRAPH

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Hobe Sound, FL. 33455  
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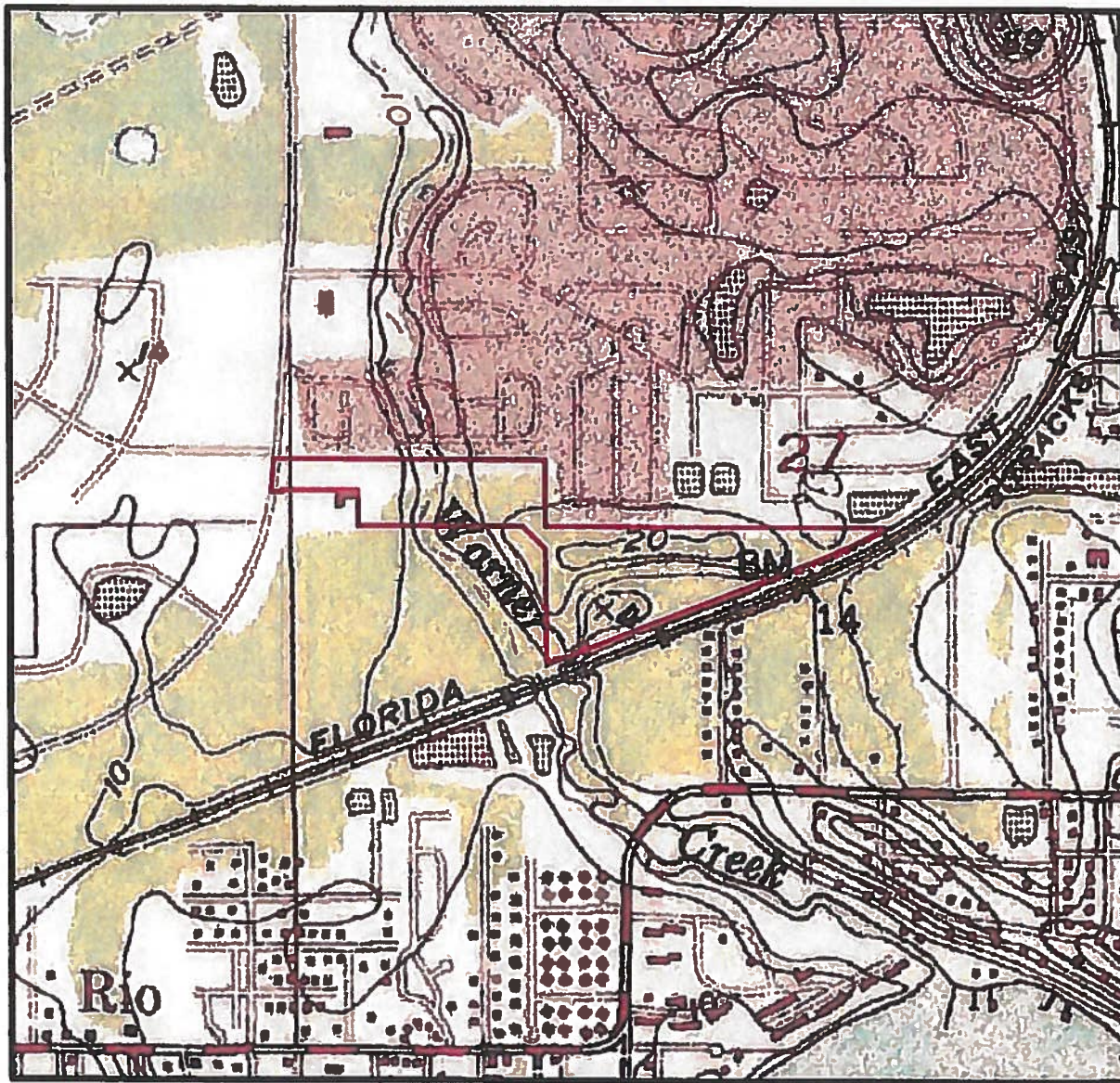
NOT A SURVEY



NORTH



SCALE: 1" = 800'



SOURCE: USGS TOPOGRAPHIC MAP OF ST. LUCIE INLET QUADRANGLE, 7.5 MINUTE SERIES

BOUNDARY SOURCE: CAPTEC

PARCEL ID # 27-37-41-005-000-00020-0, 27-37-41-007-000-00150-0 AND 27-37-41-007-000-00161-0

MARTIN COUNTY FLORIDA	SEC. 27	TWP. 37S	R. 41E	HSE JOB NO.: 18-009.01	DRAWING NAME: 04- TOPO.DWG	DATE: 05 MARCH 2018	APPENDIX A FIGURE: 4 OF 8
LATITUDE: N27° 13' 34.680"		LONGITUDE: W080° 13' 52.202"		DESIGNED BY: RLW	DRAWN BY: ACE	CHECKED BY: FRP	

RIVER'S EDGE APARTMENTS  
JENSEN BEACH, MARTIN COUNTY, FLORIDA  
FLORIDA SCRUB-JAY (*Aphelocoma coerulescens*) SURVEY  
USGS TOPOGRAPHIC MAP

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Hobe Sound, FL. 33455  
(772) 545-3676, E-mail: bobhsenv@gmail.com



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NOT A SURVEY



NORTH



SCALE: 1" = 500'



SOURCE: HSE AND 2016 MARTIN COUNTY AERIAL PHOTOGRAPH, FDOT, SIDS.  
BOUNDARY SOURCE: CAPTEC

PARCEL ID # 27-37-41-005-000-00020-0, 27-37-41-007-000-00150-0 AND 27-37-41-007-000-00161-0

MARTIN COUNTY FLORIDA	SEC.	TWP.	R.	HSE JOB NO.: 18-009.01	DRAWING NAME: 05- CALL STATIONS.DWG	DATE: 05 MARCH 2018	APPENDIX A FIGURE: 5 OF 8
	27	37S	41E				
LATITUDE: N27° 13' 34.680"			LONGITUDE: W080° 13' 52.202"		DESIGNED BY: RLW	DRAWN BY: ACE	

RIVER'S EDGE APARTMENTS  
JENSEN BEACH, MARTIN COUNTY, FLORIDA  
FLORIDA SCRUB-JAY (*Aphelocoma coerulescens*) SURVEY  
CALL STATION LOCATION

**HSE** Hobe Sound Environmental Consultants Inc.  
9512 SE Duncan Street  
Hobe Sound, FL. 33455  
(772) 545-3676, E-mail: bobhsenv@gmail.com



THIS DRAWING, TOGETHER WITH THE CONCEPTS AND DESIGN PRESENTED HEREIN, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. HSE AND IMPROPER RELIANCE ON THIS DRAWING WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY HOBE SOUND ENVIRONMENTAL CONSULTANTS, INC. SHALL BE WITHOUT LIABILITY TO HOBE SOUND ENVIRONMENTAL CONSULTANTS, INC.

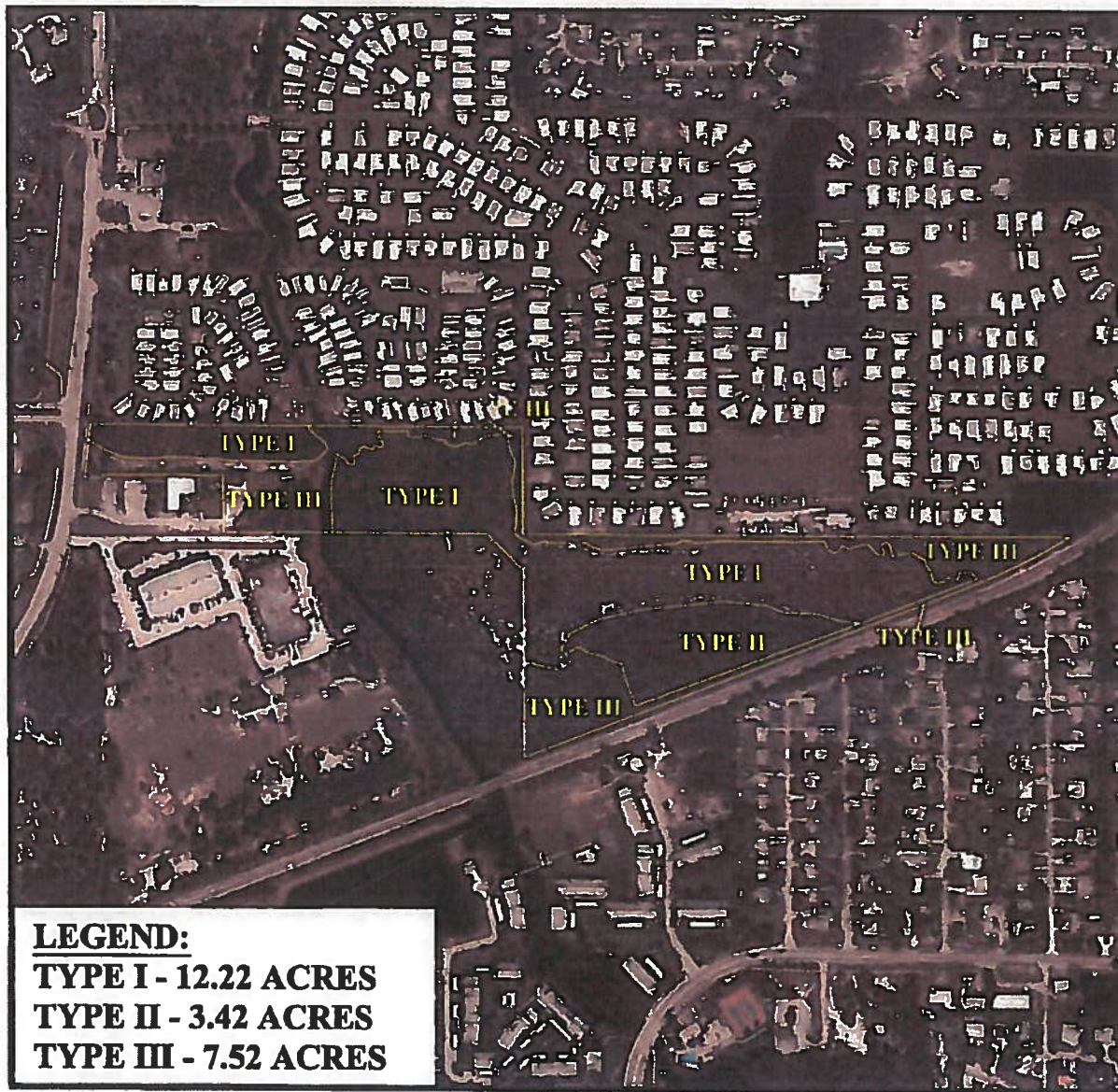
NOT A SURVEY



NORTH



SCALE: 1" = 500'



**LEGEND:**

**TYPE I - 12.22 ACRES**  
**TYPE II - 3.42 ACRES**  
**TYPE III - 7.52 ACRES**

SOURCE: 2016 MARTIN COUNTY AERIAL PHOTOGRAPH, FDOT, SIDS  
 BOUNDARY SOURCE: CAPTEC

PARCEL ID # 27-37-41-005-000-00020-0, 27-37-41-007-000-00150-0 AND 27-37-41-007-000-00161-0

MARTIN COUNTY FLORIDA	SEC. 27	TWP. 37S	R. 41E	HSE JOB NO.: 18-009.01	DRAWING NAME: 07- HABITAT TYPES.DWG	DATE: 05 MARCH 2018	APPENDIX A FIGURE: 7 OF 8
LATITUDE: N27° 13' 34.680"		LONGITUDE: W080° 13' 52.202"		DESIGNED BY: RLW	DRAWN BY: ACE	CHECKED BY: FRP	

**RIVER'S EDGE APARTMENTS**  
**JENSEN BEACH, MARTIN COUNTY, FLORIDA**  
**FLORIDA SCRUB-JAY (*Aphelocoma coerulescens*) SURVEY**  
**FLORIDA SCRUB-JAY HABITAT TYPES**

**H S E** Hobe Sound Environmental Consultants Inc.  
 9512 SE Duncan Street  
 Hobe Sound, FL 33455  
 (772) 545-3676, E-mail: bobhsenv@gmail.com



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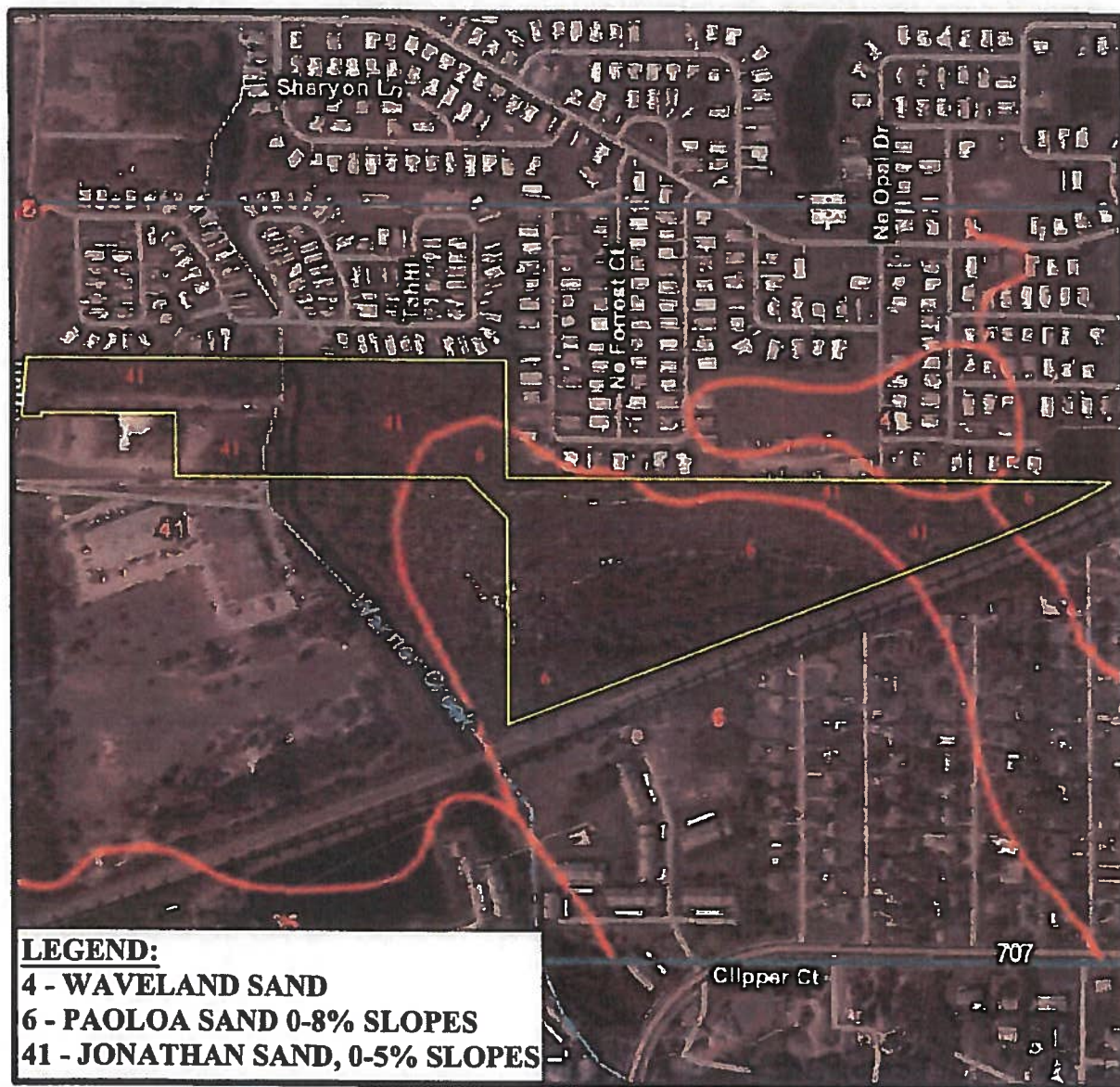
NOT A SURVEY



NORTH



SCALE: 1" = 450'



**LEGEND:**

4 - WAVELAND SAND

6 - PAOLOA SAND 0-8% SLOPES

41 - JONATHAN SAND, 0-5% SLOPES

SOURCE: <http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>

BOUNDARY SOURCE: CAPTEC

PARCEL ID # 27-37-41-005-000-00020-0, 27-37-41-007-000-00150-0 AND 27-37-41-007-000-00161-0

MARTIN COUNTY FLORIDA	SEC. 27	TWP. 37S	R. 41E	HSE JOB NO.: 18-009.01	DRAWING NAME: 08-SOILS.DWG	DATE: 05 MARCH 2018	APPENDIX A FIGURE: 8 OF 8
LATITUDE: N27° 13' 34.680"		LONGITUDE: W080° 13' 52.202"		DESIGNED BY: RLW	DRAWN BY: ACE	CHECKED BY: FRP	

RIVER'S EDGE APARTMENTS  
JENSEN BEACH, MARTIN COUNTY, FLORIDA  
FLORIDA SCRUB-JAY (*Aphelocoma coerulescens*) SURVEY  
SCS SOILS MAP

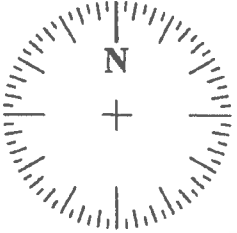
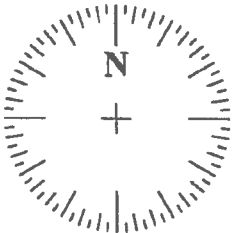
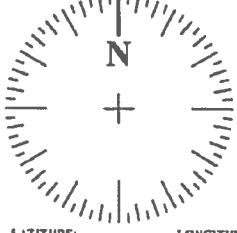
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(772) 545-3676, E-mail: [bobhsenv@gmail.com](mailto:bobhsenv@gmail.com)

## HSE FLORIDA SCRUB-JAY DATA SHEET

SITE NAME: <u>RIVER'S EDGE APARTMENTS</u> CLIENT NAME: <u>STEPHEN COHEN</u> INVESTIGATOR(S): <u>ACE</u>	SEC. <u>27</u> TWP. <u>37S</u> R. <u>41E</u>	COUNTY: <u>MARTIN COUNTY</u> HSE JOB NO.: <u>18-009.01</u> TEMPERATURE: <u>65-75°F</u> WIND SPEED AND DIR.: <u>2-8 MPH NNE</u> VISIBILITY: <u>9 MIL</u> PRECIPITATION: <u>0"</u>	DATE: <u>01 MARCH 2018</u> DAY NO.: <u>1</u> TRANSECT NO.: <u>T1</u>
BRIEF SITE DESCRIPTION: APPROXIMATELY 6.44 ACRES OF MELALEUCA WETLAND AND 21.51 ACRES OF UPLAND SCRUB AND PINE FLATWOODS WITH A MIXTURE OF SAND AND SLASH PINE, CABBAGE PALMS AND VARIOUS OAKS. THE UNDERSTORY CONSISTS OF SAW PALMETTO, TALLOW WOOD, SHIMMY AND RUSTY LYONIA AND GALBERRY.			

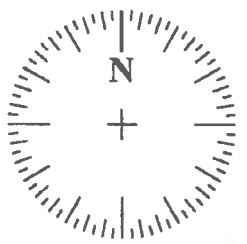
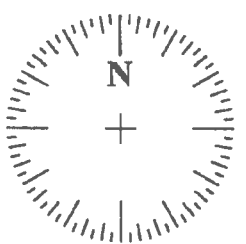
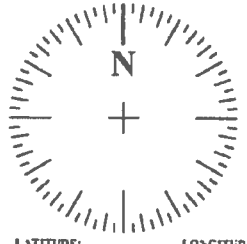
### CALLS BROADCAST AT EACH STATION FOR AT LEAST 1 MINUTE IN ALL FOUR DIRECTIONS

STATION NO:	TIME:	DIRECTION OF TRANSECT :	DISTANCE FROM PREVIOUS STATION:	STATION NO:	TIME:	DIRECTION OF TRANSECT :	DISTANCE FROM PREVIOUS STATION:
T1 CS1	07:15	93°	BEGINNING	T1 CS2	07:23	114°	313.25'
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A		DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A	
LATITUDE: <u>27°13'38.870"</u> LONGITUDE: <u>-80°14'10.393"</u>				LATITUDE: <u>27°13'38.675"</u> LONGITUDE: <u>-80°14'06.930"</u>			
FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:		FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:	
GRAY CATBIRD - 3 NORTHERN CARDINAL - 2 FISH CROW - 3 WHITE IBIS - 1 EUROPEAN STARLING - 5		BAHIA GRASS, SLASH PINE, CABBAGE PALM, GUINEA GRASS, BRAZILIAN PEPPER, WILD GRAPE, BEGGARTICKS, TASSELFLOWER, SAW PALMETTO, GREENBRIER, SAND PINE, DARLINGTON OAK, SAND LIVE OAK, RUNNING OAK, MEXICAN CLOVER, UMBRELLA TREE AND LOVE VINE.		GRAY CATBIRD - 3 NORTHERN CARDINAL - 2 MOURNING DOVE - 2 RED-BELLIED WOODPECKER - 1 BLUE-JAY - 4		BAHIA GRASS, ROSARY PEA, CABBAGE PALM, GUINEA GRASS, BRAZILIAN PEPPER, BEGGARTICKS, TASSELFLOWER, WILD GRAPE, SAW PALMETTO, GREENBRIER, LIVE OAK, SAND PINE, SAND LIVE OAK, RUNNING OAK, MEXICAN CLOVER, FALSE ROSEMARY AND LOVE VINE.	
T1 CS3	07:33	81° (TO T2)	329.47'				
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A					
LATITUDE: <u>27°13'37.318"</u> LONGITUDE: <u>-80°14'03.618"</u>							
FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:					
GRAY CATBIRD - 3 NORTHERN CARDINAL - 4 MOTTLED DUCK - 2 BOAT-TAILED GRACKLE - 1 MOURNING DOVE - 5		BRAZILIAN PEPPER, GREENBRIER, BAHIA GRASS, SWAMP FERN, CREEPING OXEYE, SPATTERDOCK, WILD GRAPE, BRACKEN FERN AND SAW PALMETTO.					

## HSE FLORIDA SCRUB-JAY DATA SHEET

SITE NAME: <u>RIVER'S EDGE APARTMENTS</u> CLIENT NAME: <u>STEPHEN COHEN</u> INVESTIGATOR(S): <u>ACE</u>	SEC. <u>27</u> COUNTY: <u>MARTIN COUNTY</u> HSE JOB NO.: <u>18-009.01</u> TEMPERATURE: <u>65-75°F</u> WIND SPEED AND DIR.: <u>2-8 MPH NNE</u> VISIBILITY: <u>9 MI.</u> PRECIPITATION: <u>0"</u>	TWP. <u>37S</u> R. <u>41E</u>	DATE: <u>5 MARCH 2018</u> DAY NO.: <u>1</u> TRANSECT NO.: <u>T2</u>
BRIEF SITE DESCRIPTION: APPROXIMATELY 8.64 ACRES OF MELALEUCA WETLAND AND 12.32 ACRES OF UPLAND SCRUB AND PINE FLATWOODS WITH A MIXTURE OF SAND AND SLASH PINE, CABBAGE PALMS AND VARIOUS OAKS. THE UNDERSTORY CONSISTS OF SAW PALMETTO, TALLOW WOOD, SHINY AND RUSTY LYONIA AND GALBERRY.			

### CALLS BROADCAST AT EACH STATION FOR AT LEAST 1 MINUTE IN ALL FOUR DIRECTIONS

STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:	STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:
T2 CS1	07:57	144°	450.46'	T2 CS2	08:11	158°	361.66'
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A		DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A	
LATITUDE: <u>27°13'37.970"</u> LONGITUDE: <u>-80°13'58.701"</u>				LATITUDE: <u>27°13'35.090"</u> LONGITUDE: <u>-80°13'56.379"</u>			
FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:		FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:	
OSPREY - 1 NORTHERN CARDINAL - 4 MORNING DOVE - 2 PALM WARBLER - 2 BLUE-JAY - 6		SAND LIVE OAK, TALLOW WOOD, SCRUB OAK, MYRTLE OAK, RUNNING OAK, SAND PINE, GREENBRIER, SAW PALMETTO, LOVE VINE AND PRICKLYPEAR.		NORTHERN CARDINAL - 2 MORNING DOVE - 2 BLUE-JAY - 6		SAND LIVE OAK, TALLOW WOOD, SCRUB OAK, MYRTLE OAK, RUNNING OAK, SAND PINE, GREENBRIER, SCRUB HICKORY, PINWEED, LOVE VINE.	
T2 CS3	08:24	61° (TO T3)	280.48'				
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A					
LATITUDE: <u>27°13'32.494"</u> LONGITUDE: <u>-80°13'55.245"</u>							
FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:					
GRAY CATBIRD - 3 NORTHERN CARDINAL - 2 EASTERN PHOEBE - 1 BLUE-GRAY GNATCATCHER - 3		SAND PINE, SLASH PINE, BRAZILIAN PEPPER, WILD GRAPE, SAW PALMETTO, GREENBRIER, BAHIA GRASS, GUINEA GRASS, EAR-LEAF ACACIA, MELALEUCA, WAX MYRTLE, SWAMP FERN, SAND LIVE OAK AND RUNNING OAK.					

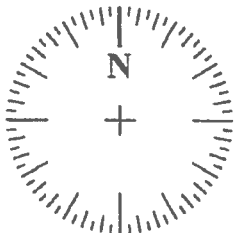
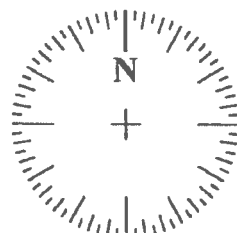
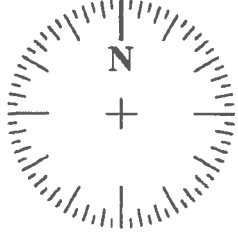
HOBE SOUND  
 ENVIRONMENTAL CONSULTANTS, INC.  
 9512 DUNCAN STREET HOBE SOUND, FL 33455  
 PHONE: (772) 545-3676 E-MAIL: bobhsenv@gmail.com

L:\HSE-FORMS\SCRUB-JAY DATA FOR\LDWG

## HSE FLORIDA SCRUB-JAY DATA SHEET

SITE NAME: <u>RIVER'S EDGE APARTMENTS</u> CLIENT NAME: <u>STEPHEN COHEN</u> INVESTIGATOR(S): <u>ACE</u>	SEC. 27 COUNTY: <u>MARTIN COUNTY</u> HSE JOB NO.: <u>18-009.01</u> TEMPERATURE: <u>65-75°F</u> WIND SPEED AND DIR.: <u>2-8 MPH NNE</u> VISIBILITY: <u>9 MI.</u> PRECIPITATION: <u>0"</u>	TWP. 37S R. 41E	DATE: <u>01 MARCH 2018</u> DAY NO.: <u>1</u> TRANSECT NO.: <u>T3</u>
BRIEF SITE DESCRIPTION: APPROXIMATELY 64 ACRES OF MELALEUCA WETLAND AND 12.52 ACRES OF UPLAND SCRUB AND PINE FLATWOODS WITH A MIXTURE OF SAND AND SLASH PINE, CABBAGE PALMS AND VARIOUS OAKS. THE UNDERSTORY CONSISTS OF SAW PALMETTO, TALLOW WOOD, SHIMMY AND RUSTY LION'S AND GALBERRY.			

### CALLS BROADCAST AT EACH STATION FOR AT LEAST 1 MINUTE IN ALL FOUR DIRECTIONS

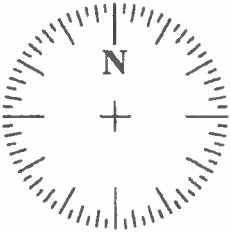
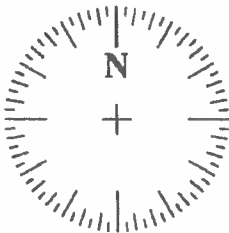
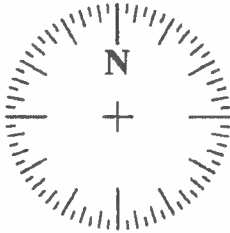
STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:	STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:
T3 CS1	08:38	97°	433.74'	T3 CS2	08:52	76°	502.91'
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A		DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A	
LATITUDE: <u>27°13'34.560"</u> LONGITUDE: <u>-80°13'51.033"</u>				LATITUDE: <u>27°13'33.945"</u> LONGITUDE: <u>-80°13'45.485"</u>			
FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:		FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:	
GREEN ANOLE - 1 NORTHERN CARDINAL - 8 MOURNING DOVE - 2 PILEATED WOODPECKER - 1 OSPREY - 1		SLASH PINE, GUINEA GRASS, SAW PALMETTO, GREENBRIER, TALLOW WOOD, SAND LIVE OAK, SAND PINE, SCRUB OAK, RUNNING OAK, WILD GRAPE AND LOVE VINE.		BROWN ANOLE - 1 NORTHERN CARDINAL - 4 MOURNING DOVE - 2 NORTHERN MOCKINGBIRD - 1 BLUE-JAY - 5 TURKEY VULTURE - 2 GOPHER TORTOISE - 1 PEAFOWL - 1		SLASH PINE, GUINEA GRASS, SAW PALMETTO, GREENBRIER, TALLOW WOOD, SAND LIVE OAK, SAND PINE, SCRUB OAK, RUNNING OAK, SAW PALMETTO AND LOVE VINE.	
T3 CS3	09:10	END	567.49'				
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A					
LATITUDE: <u>27°13'35.291"</u> LONGITUDE: <u>-80°13'39.401"</u>							
FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:					
GRAY CATBIRD - 2 NORTHERN CARDINAL - 2 MOURNING DOVE - 2 BELTED KINGFISHER - 1 BLUE-JAY - 5 TURKEY VULTURE - 3 PEAFOWL - 2		BRAZILIAN PEPPER, CARROTWOOD, WILD GRAPE, SCRUB OAK, CABBAGE PALM, TALLOW WOOD, SAW PALMETTO, GREENBRIER, BAHIA GRASS, RATTLEBOX, LIVE OAK, RUNNING OAK AND LOVE VINE.					



## HSE FLORIDA SCRUB-JAY DATA SHEET

SITE NAME: <u>RIVER'S EDGE APARTMENTS</u> CLIENT NAME: <u>STEPHEN COHEN</u> INVESTIGATOR(S): <u>ACE</u>	SEC. 27	TWP. 37S	R. 41E		DATE: <u>02 MARCH 2018</u> DAY NO.: <u>2</u> TRANSECT NO.: <u>T1</u>
COUNTY: <u>MARTIN COUNTY</u> HSE JOB NO.: <u>18-009.01</u> TEMPERATURE: <u>69°-77°F</u> WIND SPEED AND DIR.: <u>11-12 MPH SE</u> VISIBILITY: <u>7-10 ML</u> PRECIPITATION: <u>0"</u>					
BRIEF SITE DESCRIPTION: APPROXIMATELY 844 ACRES OF MELALEUCA WETLAND AND 2233 ACRES OF UPLAND SCRUB AND PINE FLATWOODS WITH A MIXTURE OF SAND AND SLASH PINE, CABBAGE PALMS AND VARIOUS OAKS. THE UNDERSTORY CONSISTS OF SAW PALMETTO, TALLUW' WOOD, SHINY AND RUSTY LYONIA AND GALBERY.					

### CALLS BROADCAST AT EACH STATION FOR AT LEAST 1 MINUTE IN ALL FOUR DIRECTIONS

STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:	STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:
T1 CS1	07:35	93°	BEGINNING	T1 CS2	07:50	114°	313.25'
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A		DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A	
LATITUDE: <u>27°13'38.870"</u> LONGITUDE: <u>-80°14'10.393"</u>				LATITUDE: <u>27°13'38.675"</u> LONGITUDE: <u>-80°14'06.930"</u>			
FAUNA OBSERVED AT STATION: MOURNING DOVE - 2 NORTHERN CARDINAL - 2 SANDHILL CRANE - 1 CATTLE EGRET - 1 BLUE-JAY - 1		FLORA OBSERVED AT STATION: BAHIA GRASS, SLASH PINE, CABBAGE PALM, GUINEA GRASS, BRAZILIAN PEPPER, WILD GRAPE, BEGGARTICKS, TASSELFLOWER, SAW PALMETTO, GREENBRIER, SAND PINE, DARLINGTON OAK, SAND LIVE OAK, RUNNING OAK, MEXICAN CLOVER, UMBRELLA TREE AND LOVE VINE.		FAUNA OBSERVED AT STATION: EUROPEAN STARLING - 12 NORTHERN CARDINAL - 6 BOAT-TAILED GRACKLE - 3 BLUE-GRAY GNATCATCHER - 1 BLUE-JAY - 5		FLORA OBSERVED AT STATION: BAHIA GRASS, ROSARY PEA, CABBAGE PALM, GUINEA GRASS, BRAZILIAN PEPPER, BEGGARTICKS, TASSELFLOWER, WILD GRAPE, SAW PALMETTO, GREENBRIER, LIVE OAK, SAND PINE, SAND LIVE OAK, RUNNING OAK, MEXICAN CLOVER, FALSE ROSEMARY AND LOVE VINE.	
T1 CS3	08:00	81° (TO T2)	329.47'				
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A					
LATITUDE: <u>27°13'37.318"</u> LONGITUDE: <u>-80°14'03.618"</u>							
FAUNA OBSERVED AT STATION: MOURNING DOVE - 2 BROWN ANOLE - 1 BOAT-TAILED GRACKLE - 5 TURKEY VULTURE - 1 MOTTLED DUCK - 2 YELLOW-RUMPED WARBLER - 2		FLORA OBSERVED AT STATION: BRAZILIAN PEPPER, GREENBRIER, BAHIA GRASS, SWAMP FERN, CREEPING OXEYE, SPATTERDOCK, WILD GRAPE, BRACKEN FERN AND SAW PALMETTO.					

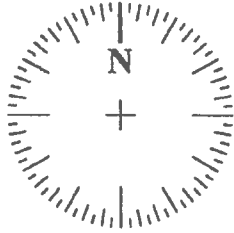
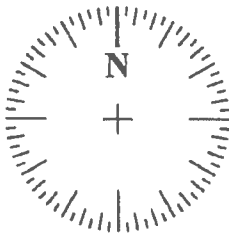
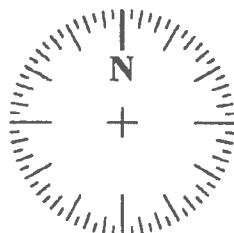
HOBE SOUND  
 ENVIRONMENTAL CONSULTANTS, INC.  
 9512 DUNCAN STREET HOBE SOUND, FL 33455  
 PHONE: (772) 545-3676 E-MAIL: bobhsenv@gmail.com

LAHSE-FORM18SCRUB-JAY DATA FORM.DWG

## HSE FLORIDA SCRUB-JAY DATA SHEET

<b>SITE NAME:</b> <u>RIVER'S EDGE APARTMENTS</u> <b>CLIENT NAME:</b> <u>STEPHEN COHEN</u> <b>INVESTIGATOR(S):</b> <u>ACE</u>	<b>SEC.</b> 27	<b>TWP.</b> 37S	<b>R.</b> 41E	<b>DATE:</b> <u>02 MARCH 2018</u>  <b>DAY NO.:</b> <u>2</u>  <b>TRANSECT NO.:</b> <u>T2</u>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><b>COUNTY:</b></td> <td style="text-align: center;">MARTIN COUNTY</td> </tr> <tr> <td style="text-align: center;"><b>HSE JOB NO.:</b></td> <td style="text-align: center;">18-009.01</td> </tr> <tr> <td style="text-align: center;"><b>TEMPERATURE:</b></td> <td style="text-align: center;">69°-77°F</td> </tr> <tr> <td style="text-align: center;"><b>WIND SPEED AND DIR.:</b></td> <td style="text-align: center;">11-12 MPH SE</td> </tr> <tr> <td style="text-align: center;"><b>VISIBILITY:</b></td> <td style="text-align: center;">7-10 MI.</td> </tr> <tr> <td style="text-align: center;"><b>PRECIPITATION:</b></td> <td style="text-align: center;">0"</td> </tr> </table>					<b>COUNTY:</b>	MARTIN COUNTY	<b>HSE JOB NO.:</b>	18-009.01	<b>TEMPERATURE:</b>	69°-77°F	<b>WIND SPEED AND DIR.:</b>	11-12 MPH SE	<b>VISIBILITY:</b>	7-10 MI.	<b>PRECIPITATION:</b>	0"
<b>COUNTY:</b>	MARTIN COUNTY															
<b>HSE JOB NO.:</b>	18-009.01															
<b>TEMPERATURE:</b>	69°-77°F															
<b>WIND SPEED AND DIR.:</b>	11-12 MPH SE															
<b>VISIBILITY:</b>	7-10 MI.															
<b>PRECIPITATION:</b>	0"															
<b>BRIEF SITE DESCRIPTION:</b> APPROXIMATELY 8.41 ACRES OF MELALEUCA WETLAND AND 22.51 ACRES OF UPLAND SCRUB AND FIVE FLATWOODS WITH A MIXTURE OF SAND AND SLASH PINE, CABBAGE PALMS AND VIRIDUS GRASS. THE UNDERSTORY CONSISTS OF SAW PALMETTO, TALLOW WOOD, SHIMMY AND RUSTY LYONIA AND GILBERTY																

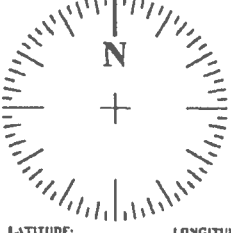
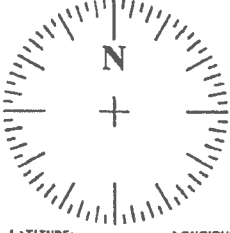
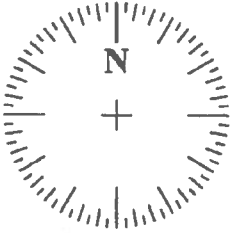
### CALLS BROADCAST AT EACH STATION FOR AT LEAST 1 MINUTE IN ALL FOUR DIRECTIONS

STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:	STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:
T2 CS1	08:40	144°	450.46'	T2 CS2	08:51	158°	361.66'
<b>DIRECTION OF BIRD'S APPROACH</b>  LATITUDE: 27°13'37.970"    LONGITUDE: -80°13'58.701"		<b>SCRUB JAY(S) OBSERVED:</b> NUMBER: DESCRIPTION(S): N/A		<b>DIRECTION OF BIRD'S APPROACH</b>  LATITUDE: 27°13'35.090"    LONGITUDE: -80°13'56.379"		<b>SCRUB JAY(S) OBSERVED:</b> NUMBER: DESCRIPTION(S): N/A	
<b>FAUNA OBSERVED AT STATION:</b> MOURNING DOVE - 2 NORTHERN CARDINAL - 2 TURKEY VULTURE - 1 BLUE-JAY - 5 BALD EAGLE (JUV.) - 1		<b>FLORA OBSERVED AT STATION:</b> SAND LIVE OAK, TALLOW WOOD, SCRUB OAK, MYRTLE OAK, RUNNING OAK, SAND PINE, GREENBRIER, SAW PALMETTO, LOVE VINE AND PRICKLYPEAR.		<b>FAUNA OBSERVED AT STATION:</b> MOURNING DOVE - 2 BROWN ANOLE - 1 BLUE-GRAY GNATCATCHER - 2 TURKEY VULTURE - 2 NORTHERN CARDINAL - 2 BLUE-JAY - 1		<b>FLORA OBSERVED AT STATION:</b> SAND LIVE OAK, TALLOW WOOD, SCRUB OAK, MYRTLE OAK, RUNNING OAK, SAND PINE, GREENBRIER, SCRUB HICKORY, PINWEED, LOVE VINE.	
T2 CS3	09:01	61° (TO T3)	280.48'				
<b>DIRECTION OF BIRD'S APPROACH</b>  LATITUDE: 27°13'32.494"    LONGITUDE: -80°13'55.245"		<b>SCRUB JAY(S) OBSERVED:</b> NUMBER: DESCRIPTION(S): N/A					
<b>FAUNA OBSERVED AT STATION:</b> NORTHERN CARDINAL - 2 WHITE IBIS - 1 BLUE-GRAY GNATCATCHER - 1 BLUE-JAY - 3 PALM WARBLER - 2		<b>FLORA OBSERVED AT STATION:</b> SAND PINE, SLASH PINE, BRAZILIAN PEPPER, WILD GRAPE, SAW PALMETTO, GREENBRIER, BAHIA GRASS, GUINEA GRASS, EAR-LEAF ACACIA, MELALEUCA, WAX MYRTLE, SWAMP FERN, SAND LIVE OAK AND RUNNING OAK.					

## HSE FLORIDA SCRUB-JAY DATA SHEET

SITE NAME: <u>RIVER'S EDGE APARTMENTS</u> CLIENT NAME: <u>RICHARD LUNDY</u> INVESTIGATOR(S): <u>ANDREW EISEMAN AND JAKE BOURGERAF</u>	SEC. <b>27</b>	TWP. <b>37S</b>	R. <b>41E</b>	DATE: <u>21 MARCH 2017</u> DAY NO.: <u>TWO</u> TRANSECT NO.: <u>T3</u>
COUNTY: <u>MARTIN COUNTY</u> HSE JOB NO.: <u>17-011.03</u> TEMPERATURE: <u>57°-75°F</u> WIND SPEED AND DIR.: <u>2 MPH NE</u> VISIBILITY: <u>8 - 10 MI.</u> PRECIPITATION: <u>0"</u>				
BRIEF SITE DESCRIPTION: <small>APPROXIMATELY 8.64 ACRES OF MELALEUCA WETLAND AND 23.52 ACRES OF UPLAND SCRUB AND PINE FLATWOODS WITH A MIXTURE OF SAND AND SLASH PINE, CABBAGE PALMS AND VARIOUS OAKS. THE UNDERSTORY CONSISTS OF SAW PALMETTO, TALLOW WOOD, SHINY AND RUSTY LYONIA AND CALBERRY.</small>				

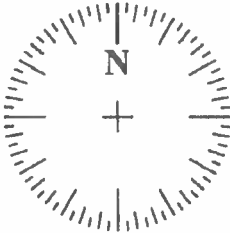
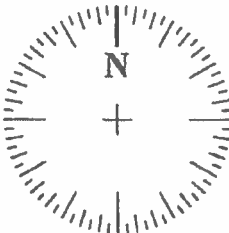
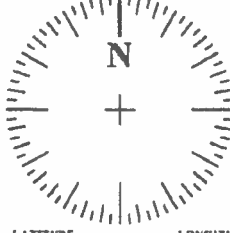
### CALLS BROADCAST AT EACH STATION FOR AT LEAST 1 MINUTE IN ALL FOUR DIRECTIONS

STATION NO:	TIME:	DIRECTION OF TRANSECT :	DISTANCE FROM PREVIOUS STATION:	STATION NO:	TIME:	DIRECTION OF TRANSECT :	DISTANCE FROM PREVIOUS STATION:
T3 CS1	09:35	97°	433.74'	T3 CS2	09:48	76°	502.91'
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: ZERO (0) DESCRIPTION(S): <div style="text-align: center; padding: 10px;">N/A</div>		DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: ZERO (0) DESCRIPTION(S): <div style="text-align: center; padding: 10px;">N/A</div>	
LATITUDE: <u>27°13'34.560"</u> LONGITUDE: <u>-80°13'51.033"</u>				LATITUDE: <u>27°13'33.945"</u> LONGITUDE: <u>-80°13'45.485"</u>			
FAUNA OBSERVED AT STATION: 2 - NORTHERN CARDINAL 5 - BLUE JAY 1 - BLACK RACER		FLORA OBSERVED AT STATION: SLASH PINE, GUINEA GRASS, SAW PALMETTO, GREENBRIER, TALLOW WOOD, SAND LIVE OAK, SAND PINE, SCRUB OAK, RUNNING OAK.		FAUNA OBSERVED AT STATION: 1 - FISH CROW 4 - NORTHERN CARDINAL 2 - GRAY CATBIRD 1 - BLUE-GRAY GNATCATCHER 1 - BLACK RACER		FLORA OBSERVED AT STATION: SLASH PINE, GUINEA GRASS, SAW PALMETTO, GREENBRIER, TALLOW WOOD, SAND LIVE OAK, SAND PINE, SCRUB OAK, RUNNING OAK.	
T3 CS3	09:57	END	567.49'				
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: ZERO (0) DESCRIPTION(S): <div style="text-align: center; padding: 10px;">N/A</div>					
LATITUDE: <u>27°13'35.291"</u> LONGITUDE: <u>-80°13'39.401"</u>							
FAUNA OBSERVED AT STATION: 7 - WHITE IBIS 1 - NORTHERN MOCKINGBIRD 1 - FISH CROW 8 - BLUE JAY 1 - PEAFOWL 3 - NORTHERN CARDINAL 2 - OSPREY		FLORA OBSERVED AT STATION: BRAZILIAN PEPPER, WILD GRAPE, SAW PALMETTO, GREENBRIER, BAHIA GRASS, RATTLEBOX, LIVE OAK, RUNNING OAK, LOVE VINE.					

## HSE FLORIDA SCRUB-JAY DATA SHEET

SITE NAME: <u>RIVER'S EDGE APARTMENTS</u> CLIENT NAME: <u>RICHARD LUNDY</u> INVESTIGATOR(S): <u>ANDREW EISEMAN</u>	SEC. 27	TWP. 37S	R. 41E	DATE: <u>22 MARCH 2017</u> DAY NO.: <u>THREE</u> TRANSECT NO.: <u>T1</u>
COUNTY: <u>MARTIN COUNTY</u> HSE JOB NO.: <u>17-011.03</u> TEMPERATURE: <u>61°-67°F</u> WIND SPEED AND DIR.: <u>5-7 MPH E</u> VISIBILITY: <u>7-8 MI.</u> PRECIPITATION: <u>0"</u>				
BRIEF SITE DESCRIPTION: <u>APPROXIMATELY 8.44 ACRES OF MELALEUCA WETLAND AND 22.52 ACRES OF UPLAND SCRUB AND PINE FLATWOODS WITH A MIXTURE OF SAND AND SLASH PINE, CABBAGE PALMS AND VARIOUS OAKS. THE UNDERSTORY CONSISTS OF SAW PALMETTO, TALLOW WOOD, SHIMMY AND RUSTY LYONIA AND GALBERIA</u>				

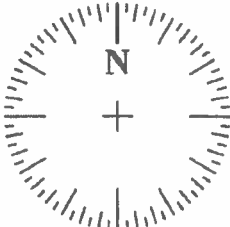
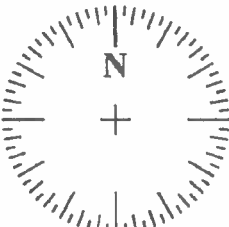
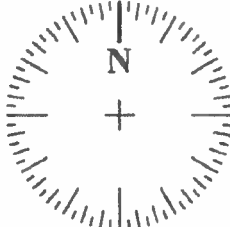
### CALLS BROADCAST AT EACH STATION FOR AT LEAST 1 MINUTE IN ALL FOUR DIRECTIONS

STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:	STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:
T1 CS1	08:42	93°	BEGINNING	T1 CS2	08:49	114°	313.25'
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: ZERO (0) DESCRIPTION(S): N/A		DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: ZERO (0) DESCRIPTION(S): N/A	
LATITUDE: <u>27°13'38.870"</u> LONGITUDE: <u>-80°14'10.393"</u>				LATITUDE: <u>27°13'38.675"</u> LONGITUDE: <u>-80°14'06.930"</u>			
FAUNA OBSERVED AT STATION: 4 - NORTHERN CARDINAL 2 - FISH CROW 3 - GRAY CATBIRD		FLORA OBSERVED AT STATION: BAHIA GRASS, SLASH PINE, CABBAGE PALM, GUINEA GRASS, BRAZILIAN PEPPER, BEGGARTICKS, TASSELFLOWER, WILD GRAPE, SAW PALMETTO, GREENBRIER, DARLINGTON OAK, SAND PINE, SAND LIVE OAK, RUNNING OAK, MEXICAN CLOVER, FALSE ROSEMARY.		FAUNA OBSERVED AT STATION: 2 - NORTHERN CARDINAL 1 - GRAY SQUIRREL 5 - PALM WARBLER		FLORA OBSERVED AT STATION: BAHIA GRASS, SLASH PINE, CABBAGE PALM, GUINEA GRASS, BRAZILIAN PEPPER, BEGGARTICKS, TASSELFLOWER, WILD GRAPE, SAW PALMETTO, GREENBRIER, LIVE OAK, SAND PINE, SAND LIVE OAK, RUNNING OAK, MEXICAN CLOVER, FALSE ROSEMARY.	
T1 CS3	08:57	81° (TO T2)	329.47'				
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: ZERO (0) DESCRIPTION(S): N/A					
LATITUDE: <u>27°13'37.318"</u> LONGITUDE: <u>-80°14'03.618"</u>							
FAUNA OBSERVED AT STATION: 2 - MOTTLED DUCK 2 - FISH CROW 5 - PALM WARBLER 1 - NORTHERN MOCKINGBIRD 2 - NORTHERN CARDINAL		FLORA OBSERVED AT STATION: BRAZILIAN PEPPER, GREENBRIER, BAHIA GRASS, SWAMP FERN, CREEPING OXEYE, SPATTERDOCK, SWAMP ROSEMALLOW, OLD WORLD CLIMBING FERN.					

## HSE FLORIDA SCRUB-JAY DATA SHEET

SITE NAME: <u>RIVER'S EDGE APARTMENTS</u> CLIENT NAME: <u>STEPHEN COHEN</u> INVESTIGATOR(S): <u>ACE</u>	SEC. 27 COUNTY: MARTIN COUNTY HSE JOB NO.: 18-009.01 TEMPERATURE: 55°-60°F WIND SPEED AND DIR.: 9-14 MPH SE VISIBILITY: 9 MI. PRECIPITATION: 0"	TWP. 37S R. 41E	DATE: <u>03 MARCH 2018</u> DAY NO.: <u>3</u> TRANSECT NO.: <u>T2</u>
BRIEF SITE DESCRIPTION: APPROXIMATELY 8.44 ACRES OF MELALEUCA WETLAND AND 22.51 ACRES OF UPLAND SCRUB AND PINE FLATWOODS WITH A MIXTURE OF SAND AND SLASH PINE, CABBAGE PALMS AND VARIOUS OAKS. THE UNDERSTORY CONSISTS OF SAW PALMETTO, TALL OAK WOOD, SHIMMY AND RUSTY LANTANA AND GALBERRIA.			

### CALLS BROADCAST AT EACH STATION FOR AT LEAST 1 MINUTE IN ALL FOUR DIRECTIONS

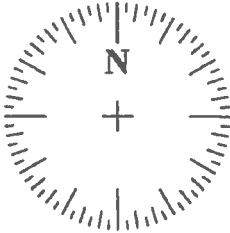
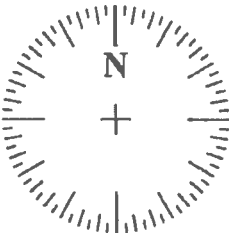
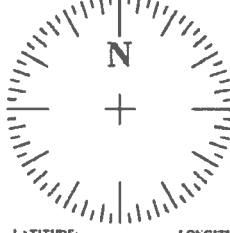
STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:	STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:
T2 CS1	08:32	144°	450.46'	T2 CS2	08:44	158°	361.66'
DIRECTION OF BIRD'S APPROACH  LATITUDE: 27°13'37.970" LONGITUDE: -80°13'58.701"		SCRUB JAY(S) OBSERVED:		DIRECTION OF BIRD'S APPROACH  LATITUDE: 27°13'35.090" LONGITUDE: -80°13'56.379"		SCRUB JAY(S) OBSERVED:	
		NUMBER:				NUMBER:	
		DESCRIPTION(S):				DESCRIPTION(S):	
		N/A				N/A	
FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:		FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:	
MOURNING DOVE - 2 NORTHERN CARDINAL - 4 GRAY CATBIRD - 4 BLUE-JAY - 6		SAND LIVE OAK, TALLOW WOOD, SCRUB OAK, MYRTLE OAK, RUNNING OAK, SAND PINE, GREENBRIER, SAW PALMETTO, LOVE VINE AND PRICKLYPEAR.		MOURNING DOVE - 2 NORTHERN CARDINAL - 4 NORTHERN MOCKINGBIRD - 1 EASTERN GRAY SQUIRREL - 2 BLUE-JAY - 6		SAND LIVE OAK, TALLOW WOOD, SCRUB OAK, MYRTLE OAK, RUNNING OAK, SAND PINE, GREENBRIER, SCRUB HICKORY, PINWEED, LOVE VINE.	
T2 CS3	08:58	61° (TO T3)	280.48'				
DIRECTION OF BIRD'S APPROACH  LATITUDE: 27°13'32.494" LONGITUDE: -80°13'55.245"		SCRUB JAY(S) OBSERVED:					
		NUMBER:					
		DESCRIPTION(S):					
		N/A					
FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:					
MOURNING DOVE - 2 NORTHERN CARDINAL - 2 GRAY CATBIRD - 3		SAND PINE, SLASH PINE, BRAZILIAN PEPPER, WILD GRAPE, SAW PALMETTO, GREENBRIER, BAHIA GRASS, GUINEA GRASS, EAR-LEAF ACACIA, MELALEUCA, WAX MYRTLE, SWAMP FERN, SAND LIVE OAK AND RUNNING OAK.					



## HSE FLORIDA SCRUB-JAY DATA SHEET

SITE NAME: <u>RIVER'S EDGE APARTMENTS</u> CLIENT NAME: <u>RICHARD LUNDY</u> INVESTIGATOR(S): <u>ANDREW EISEMAN</u>	SEC. <u>27</u> TWP. <u>37S</u> R. <u>41E</u>	COUNTY: <u>MARTIN COUNTY</u> HSE JOB NO.: <u>17-011.03</u> TEMPERATURE: <u>61°-67°F</u> WIND SPEED AND DIR.: <u>5-7 MPH E</u> VISIBILITY: <u>7-8 MI.</u> PRECIPITATION: <u>0"</u>	DATE: <u>22 MARCH 2017</u> DAY NO.: <u>THREE</u> TRANSECT NO.: <u>T3</u>
BRIEF SITE DESCRIPTION: <small>APPROXIMATELY 8.4 ACRES OF MELALEUCA WETLAND AND 21.51 ACRES OF UPLAND SCRUB AND PINE FLATWOODS WITH A MIXTURE OF SAND AND SLASH PINE, CABBAGE PALMS AND VARIOUS OAKS. THE UNDERSTORY CONSISTS OF SAW PALMETTO, TALLOW WOOD, SHIM, AND RUSTY LYONIA AND CALHERRA</small>			

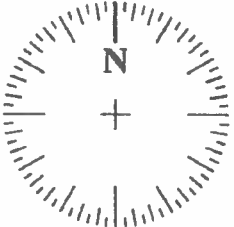
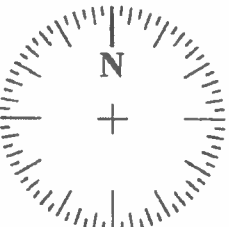
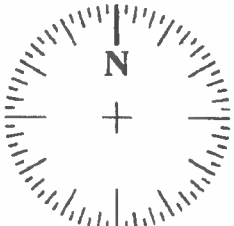
### CALLS BROADCAST AT EACH STATION FOR AT LEAST 1 MINUTE IN ALL FOUR DIRECTIONS

STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:	STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:
T3 CS1	09:22	97°	433.74'	T3 CS2	09:33	76°	502.91'
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: ZERO (0) DESCRIPTION(S): N/A		DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: ZERO (0) DESCRIPTION(S): N/A	
LATITUDE: <u>27°13'34.560"</u> LONGITUDE: <u>-80°13'51.033"</u>				LATITUDE: <u>27°13'33.945"</u> LONGITUDE: <u>-80°13'45.485"</u>			
FAUNA OBSERVED AT STATION: 1 - EASTERN COTTONTAIL 1 - NORTHERN MOCKINGBIRD 1 - GRAY CATBIRD 2 - NORTHERN CARDINAL 3 - PALM WARBLER 1 - BLUE-GRAY GNATCATCHER		FLORA OBSERVED AT STATION: SLASH PINE, GUINEA GRASS, SAW PALMETTO, GREENBRIER, TALLOW WOOD, SAND LIVE OAK, SAND PINE, SCRUB OAK, RUNNING OAK.		FAUNA OBSERVED AT STATION: 2 - NORTHERN CARDINAL 1 - BLUE JAY 1 - PEAFOWL 1 - GREAT BLUE HERON 1 - BROWN ANOLE		FLORA OBSERVED AT STATION: SLASH PINE, GUINEA GRASS, SAW PALMETTO, GREENBRIER, TALLOW WOOD, SAND LIVE OAK, SAND PINE, SCRUB OAK, RUNNING OAK.	
T3 CS3	09:42	END	567.49'				
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: ZERO (0) DESCRIPTION(S): N/A					
LATITUDE: <u>27°13'35.291"</u> LONGITUDE: <u>-80°13'39.401"</u>							
FAUNA OBSERVED AT STATION: 4 - NORTHERN CARDINAL 1 - FISH CROW 1 - PEAFOWL		FLORA OBSERVED AT STATION: BRAZILIAN PEPPER, WILD GRAPE, SAW PALMETTO, GREENBRIER, BAHIA GRASS, RATTLEBOX, LIVE OAK, RUNNING OAK, LOVE VINE.					

## HSE FLORIDA SCRUB-JAY DATA SHEET

SITE NAME: <u>RIVER'S EDGE APARTMENTS</u> CLIENT NAME: <u>STEPHEN COHEN</u> INVESTIGATOR(S): <u>ACE</u>	SEC. <u>27</u> COUNTY: <u>MARTIN COUNTY</u> HSE JOB NO.: <u>18-009.01</u> TEMPERATURE: <u>55°-69°F</u> WIND SPEED AND DIR.: <u>10-14 MPH SE</u> VISIBILITY: <u>9 MI.</u> PRECIPITATION: <u>0"</u>	TWP. <u>37S</u> R. <u>41E</u>	DATE: <u>04 MARCH 2018</u> DAY NO.: <u>4</u> TRANSECT NO.: <u>T1</u>
BRIEF SITE DESCRIPTION: APPROXIMATELY 8.41 ACRES OF MELALEUCA WETLAND AND 13.51 ACRES OF UPLAND SCRUB AND PINE FLATWOODS WITH A MIXTURE OF SAND AND SLASH PINE, CABBAGE PALM AND VARIOUS OAKS. THE UNDERSTORY CONSISTS OF SAW PALMETTO, TALLOW WOOD, SHINY AND RUSTY LYONIA AND G. LILBERTY			

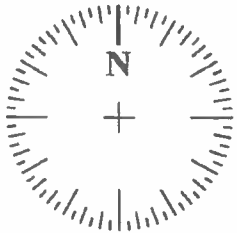
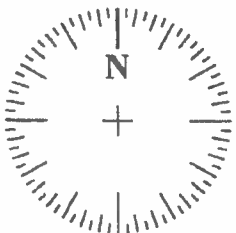
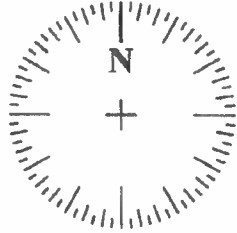
### CALLS BROADCAST AT EACH STATION FOR AT LEAST 1 MINUTE IN ALL FOUR DIRECTIONS

STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:	STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:
T1 CS1	07:28	93°	BEGINNING	T1 CS2	07:41	114°	313.25'
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A		DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A	
LATITUDE: <u>27°13'38.870"</u> LONGITUDE: <u>-80°14'10.393"</u>				LATITUDE: <u>27°13'38.675"</u> LONGITUDE: <u>-80°14'06.930"</u>			
FAUNA OBSERVED AT STATION: OSPREY - 3 GRAY CATBIRD - 2 MOURNING DOVE - 2 NORTHERN CARDINAL - 4 BLUE-JAY - 3		FLORA OBSERVED AT STATION: BAHIA GRASS, SLASH PINE, CABBAGE PALM, GUINEA GRASS, BRAZILIAN PEPPER, WILD GRAPE, BEGGARTICKS, TASSEFLOWER, SAW PALMETTO, GREENBRIER, SAND PINE, DARLINGTON OAK, SAND LIVE OAK, RUNNING OAK, MEXICAN CLOVER, UMBRELLA TREE AND LOVE VINE.		FAUNA OBSERVED AT STATION: GREAT EGRET - 1 GRAY CATBIRD - 1 MOURNING DOVE - 2 NORTHERN CARDINAL - 4		FLORA OBSERVED AT STATION: BAHIA GRASS, ROSARY PEA, CABBAGE PALM, GUINEA GRASS, BRAZILIAN PEPPER, BEGGARTICKS, TASSEFLOWER, WILD GRAPE, SAW PALMETTO, GREENBRIER, LIVE OAK, SAND PINE, SAND LIVE OAK, RUNNING OAK, MEXICAN CLOVER, FALSE ROSEMARY AND LOVE VINE.	
T1 CS3	07:50	81° (TO T2)	329.47'				
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A					
LATITUDE: <u>27°13'37.318"</u> LONGITUDE: <u>-80°14'03.618"</u>							
FAUNA OBSERVED AT STATION: MOTTLED DUCK - 2 GRAY CATBIRD - 6 MOURNING DOVE - 2 NORTHERN CARDINAL - 2 BROWN ANOLE - 1		FLORA OBSERVED AT STATION: BRAZILIAN PEPPER, GREENBRIER, BAHIA GRASS, SWAMP FERN, CREEPING OXEYE, SPATTERDOCK, WILD GRAPE, BRACKEN FERN AND SAW PALMETTO.					

## HSE FLORIDA SCRUB-JAY DATA SHEET

SITE NAME: <u>RIVER'S EDGE APARTMENTS</u> CLIENT NAME: <u>STEPHEN COHEN</u> INVESTIGATOR(S): <u>ACE</u>	SEC. <u>27</u> COUNTY: <u>MARTIN COUNTY</u> HSE JOB NO.: <u>18-009.01</u> TEMPERATURE: <u>55°-69°F</u> WIND SPEED AND DIR.: <u>10-14 MPH SE</u> VISIBILITY: <u>9 MI.</u> PRECIPITATION: <u>0"</u>	TWP. <u>37S</u> R. <u>41E</u>	DATE: <u>04 MARCH 2018</u> DAY NO.: <u>4</u> TRANSECT NO.: <u>T2</u>
BRIEF SITE DESCRIPTION: APPROXIMATELY 8.4 ACRES OF MELALEUCA WETLAND AND 11.51 ACRES OF UPLAND SCRUB AND PINE FLATWOODS WITH A MIXTURE OF SAND AND SLASH PINE, CABBAGE PALMS AND VARIOUS OAKS. THE UNDERSTORY CONSISTS OF SAW PALMETTO, TALLOW WOOD, SHINY AND RUSTY LYONIA AND CALBERRY.			

### CALLS BROADCAST AT EACH STATION FOR AT LEAST 1 MINUTE IN ALL FOUR DIRECTIONS

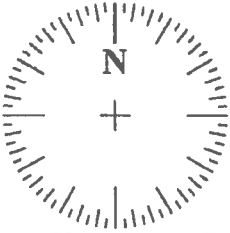
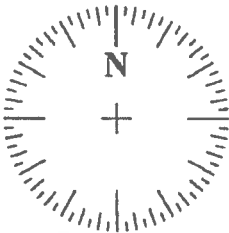
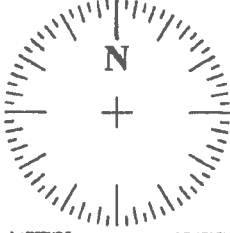
STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:	STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:
T2 CS1	08:40	144°	450.46'	T2 CS2	09:06	158°	361.66'
DIRECTION OF BIRD'S APPROACH  LATITUDE: <u>27°13'37.970"</u> LONGITUDE: <u>-80°13'58.701"</u>		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A		DIRECTION OF BIRD'S APPROACH  LATITUDE: <u>27°13'35.090"</u> LONGITUDE: <u>-80°13'56.379"</u>		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A	
FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:		FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:	
MOURNING DOVE - 2 NORTHERN CARDINAL - 4 BLUE-GRAY GNATCATCHER - 2 GRAY CATBIRD - 2 BLUE-JAY - 5    PINE WARBLER - 4 FISH CROW - 1    PALM WARBLER - 2 PRAIRIE WARBLER - 1 TURKEY VULTURE - 2 NORTHERN MOCKINGBIRD - 1		SAND LIVE OAK, TALLOW WOOD, SCRUB OAK, MYRTLE OAK, RUNNING OAK, SAND PINE, GREENBRIER, SAW PALMETTO, LOVE VINE AND PRICKLYPEAR.		NORTHERN MOCKINGBIRD - 1 MOURNING DOVE - 2 NORTHERN CARDINAL - 2 BLUE-JAY - 4 TURKEY VULTURE - 1		SAND LIVE OAK, TALLOW WOOD, SCRUB OAK, MYRTLE OAK, RUNNING OAK, SAND PINE, GREENBRIER, SCRUB HICKORY, PINWEED, LOVE VINE.	
STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:				
T2 CS3	09:18	61° (TO T3)	280.48'				
DIRECTION OF BIRD'S APPROACH  LATITUDE: <u>27°13'32.494"</u> LONGITUDE: <u>-80°13'55.245"</u>		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A					
FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:					
OSPREY - 3 GRAY CATBIRD - 2 AMERICAN KESTREL - 1 NORTHERN CARDINAL - 2		SAND PINE, SLASH PINE, BRAZILIAN PEPPER, WILD GRAPE, SAW PALMETTO, GREENBRIER, BAHIA GRASS, GUINEA GRASS, EAR-LEAF ACACIA, MELALEUCA, WAX MYRTLE, SWAMP FERN, SAND LIVE OAK AND RUNNING OAK.					



## HSE FLORIDA SCRUB-JAY DATA SHEET

SITE NAME: <u>RIVER'S EDGE APARTMENTS</u> CLIENT NAME: <u>RICHARD LUNDY</u> INVESTIGATOR(S): <u>ANDREW EISEMAN</u>	SEC. <u>27</u> COUNTY: <u>MARTIN COUNTY</u> HSE JOB NO.: <u>17-011.03</u> TEMPERATURE: <u>68°-71°F</u> WIND SPEED AND DIR.: <u>3-10 MPH WSW</u> VISIBILITY: <u>9 MI</u> PRECIPITATION: <u>&lt;0.01"</u>	TWP. <u>37S</u> R. <u>41E</u>	DATE: <u>23 MARCH 2017</u> DAY NO.: <u>FOUR</u> TRANSECT NO.: <u>T3</u>
BRIEF SITE DESCRIPTION: APPROXIMATELY 8.4 ACRES OF MELALEUCA WETLAND AND 21.51 ACRES OF UPLAND SCRUB AND PINE FLATWOODS WITH A MIXTURE OF SAND AND SLASH PINE, CABBAGE PALMS AND VARIOUS OAKS. THE UNDERSTORY CONSISTS OF SAW PALMETTO, TALLOW WOOD, SHINY AND RUSTY LAUREL AND GALBERRY.			

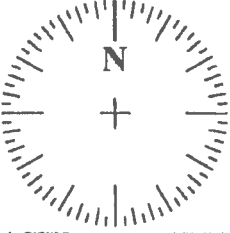
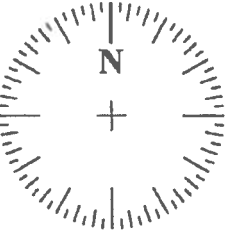
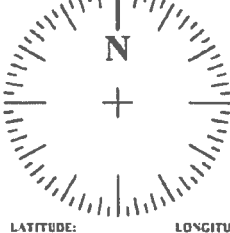
### CALLS BROADCAST AT EACH STATION FOR AT LEAST 1 MINUTE IN ALL FOUR DIRECTIONS

STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:	STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:
T3 CS1	09:22	97°	433.74'	T3 CS2	09:32	76°	502.91'
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: ZERO (0) DESCRIPTION(S): N/A		DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: ZERO (0) DESCRIPTION(S): N/A	
LATITUDE: <u>27°13'34.560"</u> LONGITUDE: <u>-80°13'51.033"</u>				LATITUDE: <u>27°13'33.945"</u> LONGITUDE: <u>-80°13'45.485"</u>			
FAUNA OBSERVED AT STATION: 1 - BLUE-GRAY GNATCATCHER 1 - TURKEY VULTURE		FLORA OBSERVED AT STATION: SLASH PINE, GUINEA GRASS, SAW PALMETTO, GREENBRIER, TALLOW WOOD, SAND LIVE OAK, SAND PINE, SCRUB OAK, RUNNING OAK.		FAUNA OBSERVED AT STATION: 1 - NORTHERN MOCKINGBIRD 2 - FISH CROW 2 - NORTHERN CARDINAL 1 - OSPREY		FLORA OBSERVED AT STATION: SLASH PINE, GUINEA GRASS, SAW PALMETTO, GREENBRIER, TALLOW WOOD, SAND LIVE OAK, SAND PINE, SCRUB OAK, RUNNING OAK.	
T3 CS3	09:40	END	567.49'				
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: ZERO (0) DESCRIPTION(S): N/A					
LATITUDE: <u>27°13'35.291"</u> LONGITUDE: <u>-80°13'39.401"</u>							
FAUNA OBSERVED AT STATION: 1 - TURKEY VULTURE 1 - PEAFOWL 4 - FISH CROW 2 - BOAT-TAILED GRACKLE		FLORA OBSERVED AT STATION: BRAZILLIAN PEPPER, WILD GRAPE, SAW PALMETTO, GREENBRIER, BAHIA GRASS, RATTLEBOX, LIVE OAK, RUNNING OAK, LOVE VINE.					

## HSE FLORIDA SCRUB-JAY DATA SHEET

SITE NAME: <u>RIVER'S EDGE APARTMENTS</u> CLIENT NAME: <u>STEPHEN COHEN</u> INVESTIGATOR(S): <u>ACE</u>	SEC. 27 COUNTY: MARTIN COUNTY HSE JOB NO.: 18-009.01 TEMPERATURE: 54°-63°F WIND SPEED AND DIR.: 5 MPH SE VISIBILITY: 8-9 MI. PRECIPITATION: 0"	TWP. 37S R. 41E	DATE: <u>05 MARCH 2018</u> DAY NO.: <u>5</u> TRANSECT NO.: <u>T1</u>
BRIEF SITE DESCRIPTION: APPROXIMATELY 0.64 ACRES OF MELALEUCA WETLAND AND 22.52 ACRES OF UPLAND SCRUB AND PINE FLATWOODS WITH A MIXTURE OF SAND AND SLASH PINE, CABBAGE PALMS AND VARIOUS OAKS. THE UNDERSTORY CONSISTS OF SAW PALMETTO, TALLOW WOOD, SHINY AND RUSTY LYONIA AND GALBERY.			

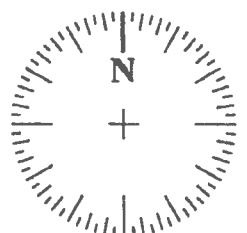
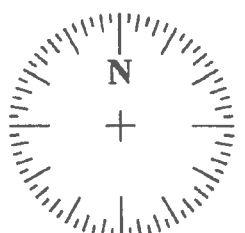
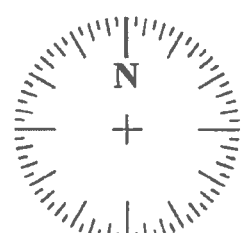
### CALLS BROADCAST AT EACH STATION FOR AT LEAST 1 MINUTE IN ALL FOUR DIRECTIONS

STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:	STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:
T1 CS1	07:11	93°	BEGINNING	T1 CS2	07:19	114°	313.25'
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A		DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A	
LATITUDE: 27°13'38.870" LONGITUDE: -80°14'10.393"				LATITUDE: 27°13'38.675" LONGITUDE: -80°14'06.930"			
FAUNA OBSERVED AT STATION: OSPREY - 1 GRAY CATBIRD - 2 MOURNING DOVE - 2 NORTHERN CARDINAL - 2 BLUE-JAY - 3 FISH CROW - 1 NORTHERN MOCKINGBIRD - 1		FLORA OBSERVED AT STATION: BAHIA GRASS, SLASH PINE, CABBAGE PALM, GUINEA GRASS, BRAZILIAN PEPPER, WILD GRAPE, BEGGARTICKS, TASSELFLOWER, SAW PALMETTO, GREENBRIER, SAND PINE, DARLINGTON OAK, SAND LIVE OAK, RUNNING OAK, MEXICAN CLOVER, UMBRELLA TREE AND LOVE VINE.		FAUNA OBSERVED AT STATION: SANDHILL CRANE - 1 GRAY CATBIRD - 2 MOURNING DOVE - 2 NORTHERN CARDINAL - 4 BLUE-GRAY GNATCATCHER - 1 BELTED KINGFISHER - 1 RED-BELLIED WOODPECKER - 1		FLORA OBSERVED AT STATION: BAHIA GRASS, ROSARY PEA, CABBAGE PALM, GUINEA GRASS, BRAZILIAN PEPPER, BEGGARTICKS, TASSELFLOWER, WILD GRAPE, SAW PALMETTO, GREENBRIER, LIVE OAK, SAND PINE, SAND LIVE OAK, RUNNING OAK, MEXICAN CLOVER, FALSE ROSEMARY AND LOVE VINE.	
T1 CS3	07:31	81° (TO T2)	329.47'				
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED: NUMBER: DESCRIPTION(S): N/A					
LATITUDE: 27°13'37.318" LONGITUDE: -80°14'03.618"							
FAUNA OBSERVED AT STATION: MOTTLED DUCK - 1 GRAY CATBIRD - 2 NORTHERN CARDINAL - 2		FLORA OBSERVED AT STATION: BRAZILIAN PEPPER, GREENBRIER, BAHIA GRASS, SWAMP FERN, CREEPING OXEYE, SPATTERDOCK, WILD GRAPE, BRACKEN FERN AND SAW PALMETTO.					

## HSE FLORIDA SCRUB-JAY DATA SHEET

SITE NAME: <u>RIVER'S EDGE APARTMENTS</u> CLIENT NAME: <u>STEPHEN COHEN</u> INVESTIGATOR(S): <u>ACE</u>	SEC. <u>27</u> TWP. <u>37S</u> R. <u>41E</u>	COUNTY: <u>MARTIN COUNTY</u> HSE JOB NO.: <u>18-009.01</u> TEMPERATURE: <u>54°-63°F</u> WIND SPEED AND DIR.: <u>5 MPH SE</u> VISIBILITY: <u>8-9 MIL</u> PRECIPITATION: <u>0"</u>	DATE: <u>05 MARCH 2018</u> DAY NO.: <u>5</u> TRANSECT NO.: <u>T2</u>
BRIEF SITE DESCRIPTION: APPROXIMATELY 0.64 ACRES OF MELALEUCA WETLAND AND 22.32 ACRES OF UPLAND SCRUB AND PINE FLATLANDS WITH A MIXTURE OF SAND AND SLASH PINE, CABBAGE PALMS AND VARIOUS OAKS. THE UNDERSTORY CONSISTS OF SAW PALMETTO, TALLOW WOOD, SHIM AND RUSTY LYONS AND GALBERRY.			

### CALLS BROADCAST AT EACH STATION FOR AT LEAST 1 MINUTE IN ALL FOUR DIRECTIONS

STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:	STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:
T2 CS1	07:57	144°	450.46'	T2 CS2	08:14	158°	361.66'
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED:		DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED:	
		NUMBER:				NUMBER:	
		DESCRIPTION(S):				DESCRIPTION(S):	
		N/A				N/A	
LATITUDE: 27°13'37.970"		LONGITUDE: -80°13'58.701"		LATITUDE: 27°13'35.090"		LONGITUDE: -80°13'56.379"	
FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:		FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:	
MOURNING DOVE - 2 GRAY CATBIRD - 4 NORTHERN CARDINAL - 4 RED-BELLIED WOODPECKER - 1 PINE WARBLER - 8		SAND LIVE OAK, TALLOW WOOD, SCRUB OAK, MYRTLE OAK, RUNNING OAK, SAND PINE, GREENBRIER, SAW PALMETTO, LOVE VINE AND PRICKLYPEAR.		BLUE-JAY - 1 GRAY CATBIRD - 1 NORTHERN CARDINAL - 2 BROWN ANOLE - 1		SAND LIVE OAK, TALLOW WOOD, SCRUB OAK, MYRTLE OAK, RUNNING OAK, SAND PINE, GREENBRIER, SCRUB HICKORY, PINWEED, LOVE VINE.	
STATION NO:	TIME:	DIRECTION OF TRANSECT:	DISTANCE FROM PREVIOUS STATION:				
T2 CS3	08:25	61° (TO T3)	280.48'				
DIRECTION OF BIRD'S APPROACH 		SCRUB JAY(S) OBSERVED:					
		NUMBER:					
		DESCRIPTION(S):					
		N/A					
LATITUDE: 27°13'32.494"		LONGITUDE: -80°13'55.245"					
FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:					
MOURNING DOVE - 2 BLUE-JAY - 3 NORTHERN CARDINAL - 2 EUROPEAN STARLING - 6		SAND PINE, SLASH PINE, BRAZILIAN PEPPER, WILD GRAPE, SAW PALMETTO, GREENBRIER, BAHIA GRASS, GUINEA GRASS, EAR-LEAF ACACIA, MELALEUCA, WAX MYRTLE, SWAMP FERN, SAND LIVE OAK AND RUNNING OAK.					

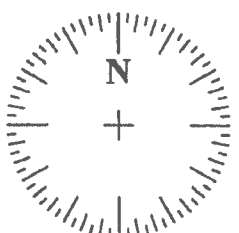
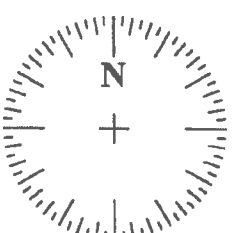
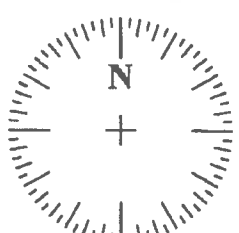
HOBE SOUND  
 ENVIRONMENTAL CONSULTANTS, INC.  
 9512 DUNCAN STREET HOBE SOUND, FL 33455  
 PHONE: (772) 545-3676 E-MAIL: bobhsenv@gmail.com

L:\HSE FORMS\SCRUB-JAY DATA FORM.DWG

## HSE FLORIDA SCRUB-JAY DATA SHEET

SITE NAME: <u>RIVER'S EDGE APARTMENTS</u> CLIENT NAME: <u>RICHARD LUNDY</u> INVESTIGATOR(S): <u>ANDREW EISEMAN</u>	SEC. <b>27</b>	TWP. <b>37S</b>	R. <b>41E</b>	DATE: <u>24 MARCH 2017</u> DAY NO.: <u>FIVE</u> TRANSECT NO.: <u>T3</u>
COUNTY: <u>MARTIN COUNTY</u> HSE JOB NO.: <u>17-011.03</u> TEMPERATURE: <u>70°-73°F</u> WIND SPEED AND DIR.: <u>2-10 MPH W</u> VISIBILITY: <u>8 MI.</u> PRECIPITATION: <u>0"</u>				
BRIEF SITE DESCRIPTION: APPROXIMATELY 8.64 ACRES OF MELALEUCA WETLAND AND 12.92 ACRES OF FLAND SCRUB AND PINE FLAT WOODS WITH A MIXTURE OF SAND AND SLASH PINE, CABBAGE PALMS AND VARIOUS OAKS. THE UNDERSTORY CONSISTS OF SAW PALMETTO, TALLOW WOOD, SHINY AND RUSTY LYONIA AND GALBERRY.				

### CALLS BROADCAST AT EACH STATION FOR AT LEAST 1 MINUTE IN ALL FOUR DIRECTIONS

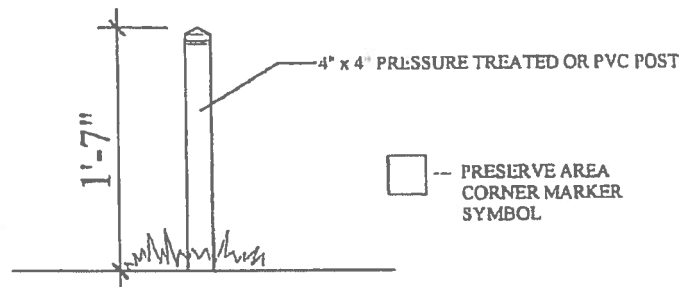
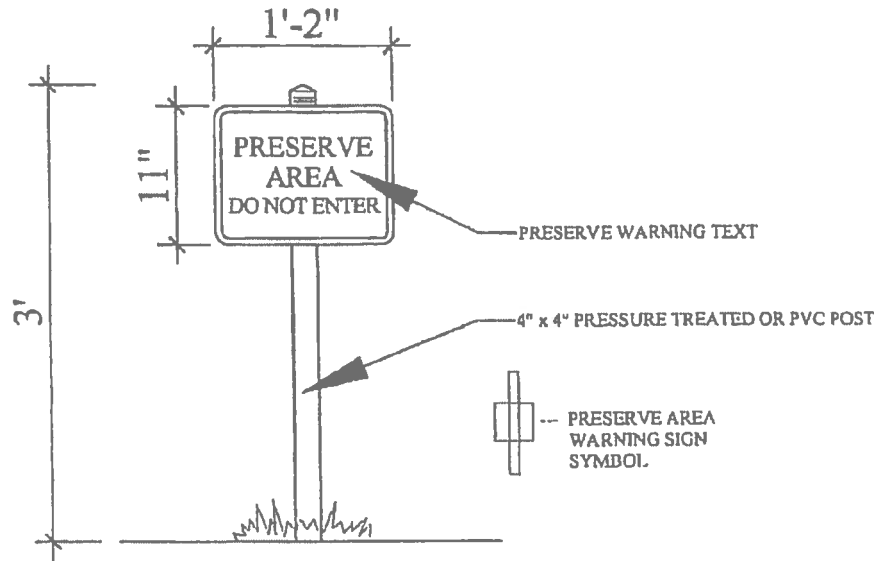
STATION NO:	TIME:	DIRECTION OF TRANSECT :	DISTANCE FROM PREVIOUS STATION:	STATION NO:	TIME:	DIRECTION OF TRANSECT :	DISTANCE FROM PREVIOUS STATION:
T3 CS1	09:29	97°	433.74'	T3 CS2	09:49	76°	502.91'
DIRECTION OF BIRD'S APPROACH  LATITUDE: <u>27°13'34.560"</u> LONGITUDE: <u>-80°13'51.033"</u>		SCRUB JAY(S) OBSERVED: NUMBER: ZERO (0) DESCRIPTION(S): N/A		DIRECTION OF BIRD'S APPROACH  LATITUDE: <u>27°13'33.945"</u> LONGITUDE: <u>-80°13'45.485"</u>		SCRUB JAY(S) OBSERVED: NUMBER: ZERO (0) DESCRIPTION(S): N/A	
FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:		FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:	
2 - NORTHERN CARDINAL 1 - PEA FOWL 1 - BROWN ANOLE 2 - BLUE JAY 1 - BLUE-GRAY GNATCATCHER 2 - RED-BELLIED WOODPECKER 1 - NORTHERN MOCKINGBIRD 1 - RED-SHOULDERED HAWK		SLASH PINE, GUINEA GRASS, SAW PALMETTO, GREENBRIER, TALLOW WOOD, SAND LIVE OAK, SAND PINE, SCRUB OAK, RUNNING OAK.		2 - NORTHERN CARDINAL 1 - PEA FOWL 1 - BROWN ANOLE 1 - NORTHERN MOCKINGBIRD 1 - RED-BELLIED WOODPECKER		SLASH PINE, GUINEA GRASS, SAW PALMETTO, GREENBRIER, TALLOW WOOD, SAND LIVE OAK, SAND PINE, SCRUB OAK, RUNNING OAK.	
T3 CS3	09:59	END	567.49'				
DIRECTION OF BIRD'S APPROACH  LATITUDE: <u>27°13'35.291"</u> LONGITUDE: <u>-80°13'39.401"</u>		SCRUB JAY(S) OBSERVED: NUMBER: ZERO (0) DESCRIPTION(S): N/A					
FAUNA OBSERVED AT STATION:		FLORA OBSERVED AT STATION:					
2 - NORTHERN CARDINAL 1 - PEA FOWL 1 - FISH CROW 3 - BOAT-TAILED CRACKLE 3 - EUROPEAN STARLING 1 - RED-BELLIED WOODPECKER		BRAZILIAN PEPPER, WILD GRAPE, SAW PALMETTO, GREENBRIER, BAHIA GRASS, RATTLEBOX, LIVE OAK, RUNNING OAK, LOVE VINE.					



# lucido & associates

701 E. Ocean Blvd. Suite 1, Florida 34504  
 100 Avenue A Suite 1A, Fort Pierce, Florida 34950  
 632 Hwy 9, Thonotosassa, Florida 33592

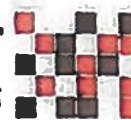
(872) 477-1731 Fax (872) 214-6250  
 (872) 467-1321 Fax (872) 467-1321  
 (407) 856-7271 Fax (857) 226-1731



## Preserve Boundary Markers and Signs

## FIREWISE TOOLKIT

### → FIREWISE PRINCIPLES



## A guide to Firewise principles

THE FIREWISE COMMUNITIES PROGRAM provides homeowners with simple and easy steps to help reduce a home's wildfire risk by preparing ahead of a wildfire. These steps are rooted in principles based on solid fire science research into how homes ignite. The research comes from the world's leading fire experts whose experiments, models and data collection are based on some of the country's worst wildland fire disasters.

Below are Firewise principles and tips that serve as a guide for residents:

When it comes to wildfire risk, it is not a geographical location, but a set of conditions that determine the home's ignition potential in any community.

Wildfire behavior is influenced by three main factors: topography (lie of the land), weather (wind speed, relative humidity and ambient temperature) and fuel (vegetation and man-made structures). In the event of extreme wildfire behavior, extreme weather conditions are normally

present, like extended drought, high winds, low humidity and high temperatures, coupled with excess fuel build up including the accumulation of live and dead vegetation material. Additionally, the inherent lie of the land influences the intensity and spread a fire takes. Fires tend to move upslope, and the steeper the slope the faster it moves.

Of these three factors, fuel is the one we can influence.

Debris like dead leaves and pine needles left on decks, in gutters and strewn across lawns can ignite from flying embers. Fire moving along the ground's surface can "ladder" into shrubs and low hanging tree limbs to create longer flames and more heat. If your home has flammable features or vulnerable openings, it can also serve as fuel for the fire, and become part of a disastrous chain of ignitions to other surrounding homes and structures.

A home's ignition risk is determined by its immediate surroundings or its "home ignition zone" and the home's construction materials.

According to fire science research and case studies, it's not where a home is located that necessarily determines ignition risk, but the landscape around it, often referred to as the "home ignition zone." The home ignition zone is defined as the home and its immediate surroundings up to 200 feet (60 m).

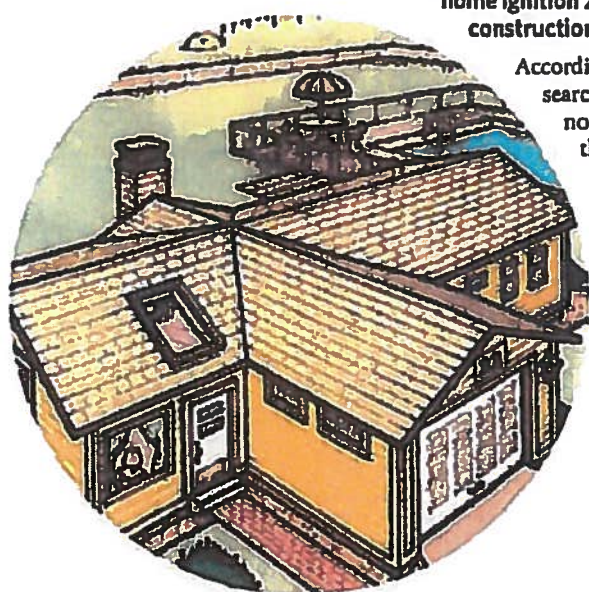
The Firewise Communities Program provides tips for reducing wildfire risk based on the home ignition zone concept:

**Home Zone:** Harden your home against wildfire. This includes fences, decks, porches and other attachments. From the point of view of a fire, if it's attached to the house it is a part of the house. Non-flammable or low flammability construction materials—especially for roofs, siding and windows—are recommended for new homes or retrofits. Keep any flammables, including plantings and mulch out of the area within 5 feet of your home's perimeter.

**Zone 1:** This well-irrigated area encircles the structure for at least 30 feet on all sides including decks and fences, and provides space for fire suppression equipment in the event of an emergency. Lawns should be well maintained and mowed. Plantings should be limited to carefully-spaced low flammability species. In particularly fire prone areas, non-flammable mulch should be considered.

**Zone 2:** This area encircles 30 - 100 feet from the home. Low flammability plant materials should be used here. Plants should be low-growing and the irrigation system should extend into this section. Shrubs and trees should be limbed up and spaced to prevent crowns of trees from touching.

**Zone 3:** This area encompasses 100 - 200 feet from the home. Place low-growing plants and well-spaced trees in this area, remembering to keep the volume of vegetation (fuel) low.



## FIREWISE TOOLKIT

### ➔ FIREWISE PRINCIPLES



**Zone 4:** This furthest zone from the structure is a natural area. Selectively prune and thin all plants and remove highly flammable vegetation.

**Homeowners can and must take primary responsibility for wildfire safety action around the home.**

There are not enough fire fighting resources to protect every house during severe wildfires, and with shrinking budgets it means we need to do more with less. Fire fighters are trained to safely and efficiently suppress wildland fires, but their effectiveness is reduced when they must sweep decks, move wood piles and patio furniture while trying to fight a fire. According to fire science research, individual efforts do make a difference even in the face of a catastrophic wildfire.

The following steps are outlined by the Firewise program to reduce home ignition risk, based on this principle:

- Prune low hanging limbs to reduce ladder fuels
- Clean roofs and gutters of pine needles and dead leaves
- Keep flammable plants and mulches at least 5 feet away from your home's perimeter
- Use low-growing, well pruned and fire-resistant plants around home
- Screen or box-in areas below patios and decks with wire screening no larger than 1/8-inch mesh
- Sweep decks and porches clear of fallen leaves
- Move woodpiles away from the home during non-winter months
- Bring doormats and furniture cushions inside when an area is threatened by a wildfire

- Close garage doors when leaving your home in the event of an evacuation

**We all have a role to play in protecting ourselves and others.**

Your home ignition zone extends up to 200 feet—and it's quite common to have neighbors whose home ignition zone overlaps yours. Buildings closer than 100 feet apart can ignite one another if they are in flames. In addition, many communities have commonly owned property, including natural or wooded areas that can pose fire risks to all. This means that to be most effective, neighbors need to work together and with their local fire service to achieve greater wildfire safety.

Together, community residents can work with agencies and elected officials to accomplish the following:

- Ensure that homes and neighborhoods have legible/clearly marked street names and numbers
- Create "two ways out" of the neighborhood for safe evacuation during a wildfire emergency
- Create phone trees to alert residents about an impending fire
- Review any existing community rules or regulations on vegetation management and construction materials to see if they are "Firewise-friendly"
- Use the "Ready, Set, Go!" program with the fire department to educate neighbors
- Use the Firewise Communities/USA® Recognition Program to create and implement an ongoing action plan that will also earn the neighborhood national recognition for their efforts

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**LEARN MORE** about how to keep families safe and reduce homeowners' risk for wildfire damage at [www.firewise.org](http://www.firewise.org).

**ADDITIONALLY,** complimentary brochures, booklets, pamphlets, videos and much more can be found on the information and resources page of the website and ordered online through the Firewise catalog.

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## Firewise tips checklist for homeowners

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WILDFIRE DOESN'T HAVE TO BURN everything in its path. In fact, cleaning your property of debris and maintaining your landscaping are important first steps to helping minimize damage and loss.

The work you do today can make a difference. Follow these simple action steps now and throughout the year to prepare and help reduce the risk of your home and property becoming fuel for a wildfire:

- ☐ Clear leaves and other debris from gutters, eaves, porches and decks. This prevents embers from igniting your home.
  - ☐ Keep your lawn hydrated and maintained. If it is brown, cut it down to reduce fire intensity. Dry grass and shrubs are fuel for wildfire.
  - ☐ Remove dead vegetation from under your deck and within 10 feet of the house.
  - ☐ Don't let debris and lawn cuttings linger. Dispose of these items quickly to reduce fuel for fire.
  - ☐ Remove anything stored underneath decks or porches.
  - ☐ Inspect shingles or roof tiles. Replace or repair those that are loose or missing to prevent ember penetration.
  - ☐ Screen or box-in areas below patios and decks with wire mesh to prevent debris and combustible materials from accumulating.
  - ☐ Cover exterior attic vents with metal wire mesh no larger than 1/8 inch to prevent sparks from entering the home.
  - ☐ Remove flammable materials (firewood stacks, propane tanks, dry vegetation) within 30 feet of your home's foundation and outbuildings, including garages and sheds. If it can catch fire, don't let it touch your house, deck or porch.
  - ☐ Enclose under-eave and soffit vents or screen with metal mesh to prevent ember entry.
  - ☐ Wildfire can spread to tree tops. If you have trees on your property, prune so the lowest branches are 6 to 10 feet from the ground.
- .....
- Learn more** about how to keep your family safe and reduce your home's risk for wildfire damage at [www.firewise.org](http://www.firewise.org).







### Firewise Communities / USA® Recognition Program checklist

BY WORKING WITH NEIGHBORS, individual residents can make their own property – and their neighborhood – much safer from the flames and embers of a wildfire. The Firewise Communities/USA® Recognition Program provides a series of steps so you and your neighbors can act now ahead of a wildfire threat.

Ready to begin? Follow these steps on your way to becoming an official Firewise community.

#### ☐ 1. Talk to your neighbors.

You may be surprised to learn that other residents are just as concerned as you are about wildfire, so make a pledge to get started ... now.

#### ☐ 2. Recruit interested community members.

These people will form a diverse Firewise® board or committee. The group should include homeowners and fire professionals, but may also include planners, land managers, urban foresters and members of other interest groups in your community.

- Choose a group leader/representative. (This person, often known as the "sparkplug," will serve as the spokesperson and take the lead on Firewise initiatives.)

#### ☐ 3. Contact Firewise.

Have the community representative complete an on-line request form on the "[contact us](#)" page on the Firewise website ([www.firewise.org](http://www.firewise.org)), or call the Firewise Communities Program office at 617-984-7486. A Firewise representative can answer your questions, and help you get started.

#### ☐ 4. Schedule a site assessment visit.

This is the first step of the process of achieving Firewise Communities/USA recognition status.

- Have the community representative contact your state's Firewise Communities/USA liaison, a specialist in wildland/urban interface (WUI) fire, to inquire about a site assessment and evaluation of your community's current wildfire readiness. Your [state liaison's contact information](#) is available on the Firewise website.

- Schedule a time to meet with the state liaison or his/her designee to provide a community wildfire risk evaluation. Plan on at least one full day for this activity.

- At the same time, contact your local fire official who will accompany the state liaison for the evaluation.

- A site assessment is **not** a Community Wildland Protection Plan (CWPP). It is a wildfire risk evaluation of the potential Firewise Communities/USA site that is applying for national recognition.

#### ☐ 5. Review the site assessment and evaluation document.

The assessment does not have a specific format, but the program endorses an assessment style that:

- Includes a simple document for homeowners/residents to review the potential community site.
- Familiarizes the homeowner/resident with the way ignitions are likely to occur and how homes are likely to be lost in the event of a wildfire.
- Explains and illustrates common strengths and vulnerabilities with respect to this site's wildfire risk.

Upon completion of the evaluation, the state liaison or designee will schedule a meeting with your local Firewise committee to review the findings of your community assessment. At this time, your committee will determine whether they accept the findings or reject them. If you accept the evaluation, the process continues; if you don't, the process is terminated.



## FIREWISE TOOLKIT



### ➡ FIREWISE COMMUNITIES / USA® RECOGNITION PROGRAM

#### ☐ 6. Create a plan.

Based on the evaluation and assessment, your Firewise committee develops a plan to tackle problem areas. In your plan, remember to include deadlines and a schedule to keep you on track. Record your action plan, and have all members of your committee sign it. Your plan should include:

- One day during the year that is designated as "Firewise Day." Whether it's a "chipper day" that gathers equipment and volunteers to chip up brush and tree limbs, a state fair exhibit or a community clean-up day, the Firewise Day helps you get the work done to make your community safer.
- Firewise mitigation activities that amount to a community investment of more than \$2/capita/year of 'in-kind' volunteer contribution or grants.
- Once the plan is finished, share it with your state liaison.

#### ☐ 7. Implement your plan.

Tackle the items in your plan. Designate the party responsible for each action, including who will take the lead on Firewise Day. Remember, everything you do should be documented, so you can send the paperwork in with your application form.

#### ☐ 8. Apply for recognition in the Firewise Communities/USA Recognition Program.

You've completed your plan; now it's time to receive the recognition you deserve. Not only is your community safer from wildfire, you will now be able to celebrate your official status as a nationally recognized Firewise community. Remember to:

- Fill out the [application form](#)
- Attach your completed Firewise community plan
- Attach the Firewise Day document that lists names of volunteers, the hours involved and activities you've accomplished
- Attach any photos that illustrate your great work

- Send your completed application and attached documents to your state liaison for review

- Your state liaison will forward the application to the NFPA Firewise program headquarters. You can expect to receive your recognition materials (sign, plaque and other items) within 2-4 weeks after NFPA receives your application.

#### ☐ 9. Renew your application each year.

The work of a Firewise community is never done. To maintain active status in the program, you must continue the work throughout the year, documenting all activities, including your Firewise Day, the hours involved, and the volunteers. The information is easy to [report through the Firewise website](#).

#### ☐ 10. Celebrate your success!

We want to hear from you! Share your story with the Firewise Communities Program family. We'll include your photos and activities on the Firewise website, feature your community in our [blog](#), and promote your hard work through our [social media platforms](#).

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#### Questions?

[Contact](#) the Firewise Communities Program. More information can be found on the [Firewise website](#).



**MARTIN COUNTY, FLORIDA  
PRESERVE AREA MANAGEMENT PLAN  
ANNUAL MONITORING REPORT FOR (Year)**

**Annual monitoring shall be conducted at the end of the wet season (usually by November 30) for five years from the date of PAMP approval. A report of the results of each monitoring event shall be submitted by the property owner to the Martin County Environmental Planning Administrator within 30 days of the completion of the monitoring. Monitoring and reporting are the responsibility of the property owner. However, a qualified environmental professional may conduct the monitoring, prepare the Annual Monitoring Reports, or submit the Reports. All Annual Monitoring Reports shall contain the following information:**

- Name and address of current owner of Preserve Area;
- Location of Preserve Area (*site/project location, Martin County Parcel Control Number, section/township/range, etc*);
- Date PAMP approved;
- Documentation of vegetation changes, including encroachment of exotic vegetation;
- Fixed-point panoramic photos of all Preserve Areas;
- Synopsis of maintenance activities conducted in compliance with the PAMP requirements such as exotic vegetation removal, re-vegetation, and additional enhancement activities necessary to maintain the Preserve Area;
- A timetable for action within 90 days of the report;
- A list of all violations of the PAMP; and
- Recommendations for remedial actions, with a proposed schedule for the coming year.

**Signature/Date :** \_\_\_\_\_

**Typed Name/Title :** \_\_\_\_\_

**Company Name (if applicable):** \_\_\_\_\_