

## **Town of Sullivan's Island**

**Town Council Special Meeting  
Monday, January 25, 2016  
Sunrise Presbyterian Church, Fellowship Hall  
3222 Middle Street, Sullivan's Island  
5:00 PM – 7:00 PM**

### **AGENDA**

- 1. Call to Order and notification that the press and public were duly notified in accordance with State Law: Mayor**
- 2. Accreted Land Management Plan- Discussion of Transition Zone**
- 3. Public Comment – Time Permitting**
- 4. Adjourn – 7 PM**

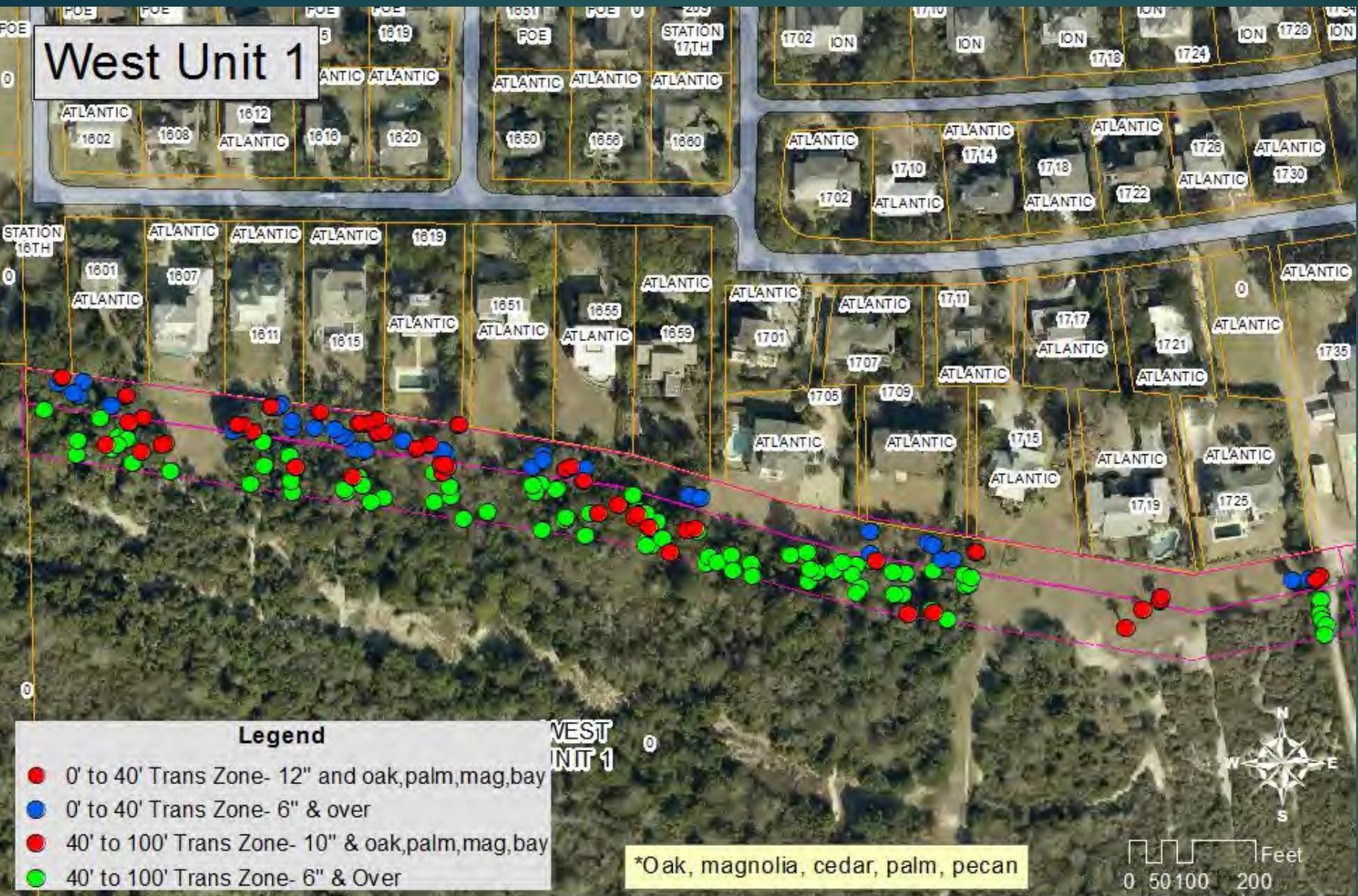


# Accreted Land Management Plan

TREE SURVEY 2014-2015

# West Unit 1

# West Unit 1



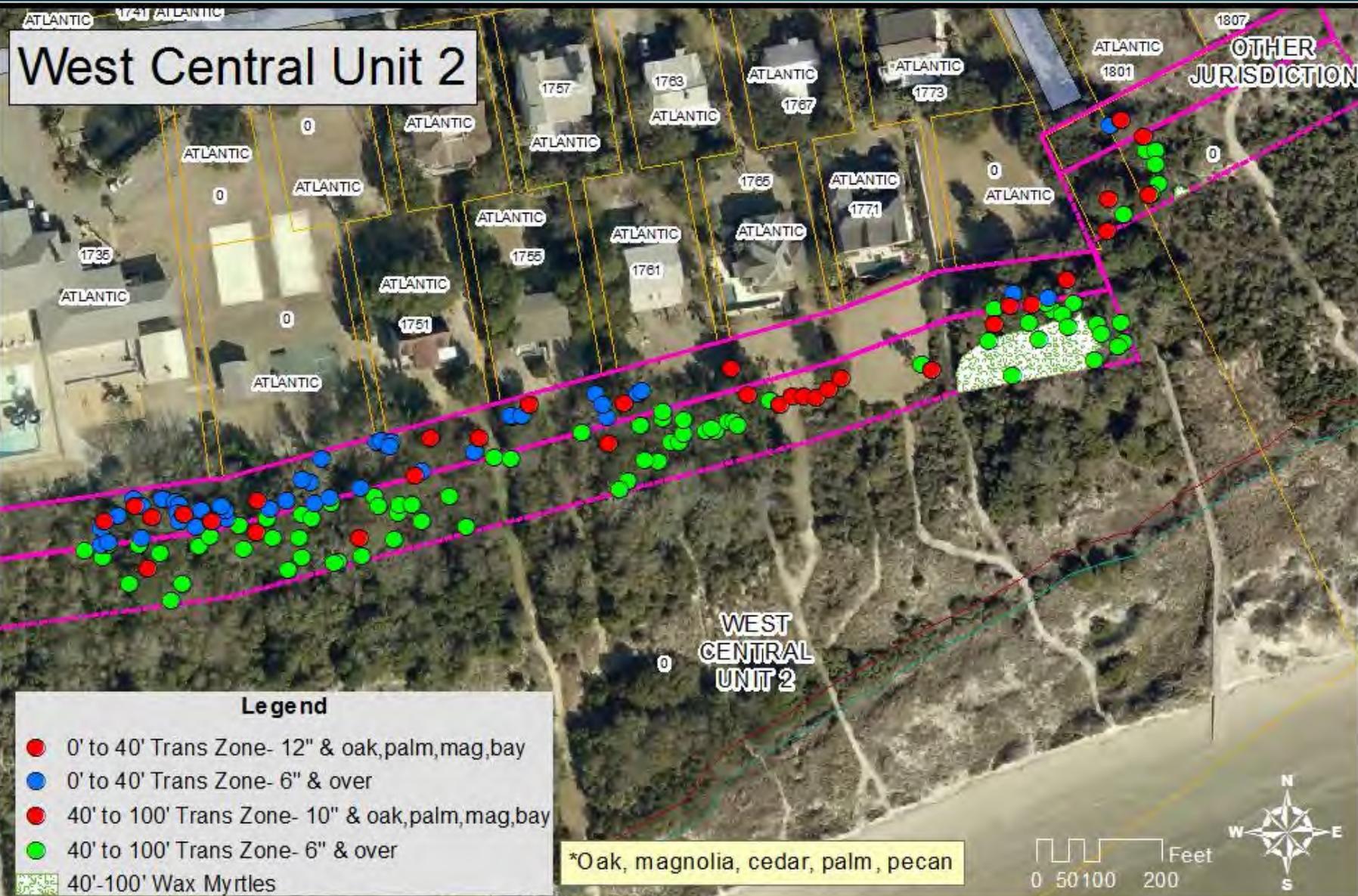
### Legend

- 0' to 40' Trans Zone- 12" and oak,palm,mag,bay
- 0' to 40' Trans Zone- 6" & over
- 40' to 100' Trans Zone- 10" & oak,palm,mag,bay
- 40' to 100' Trans Zone- 6" & Over

\*Oak, magnolia, cedar, palm, pecan

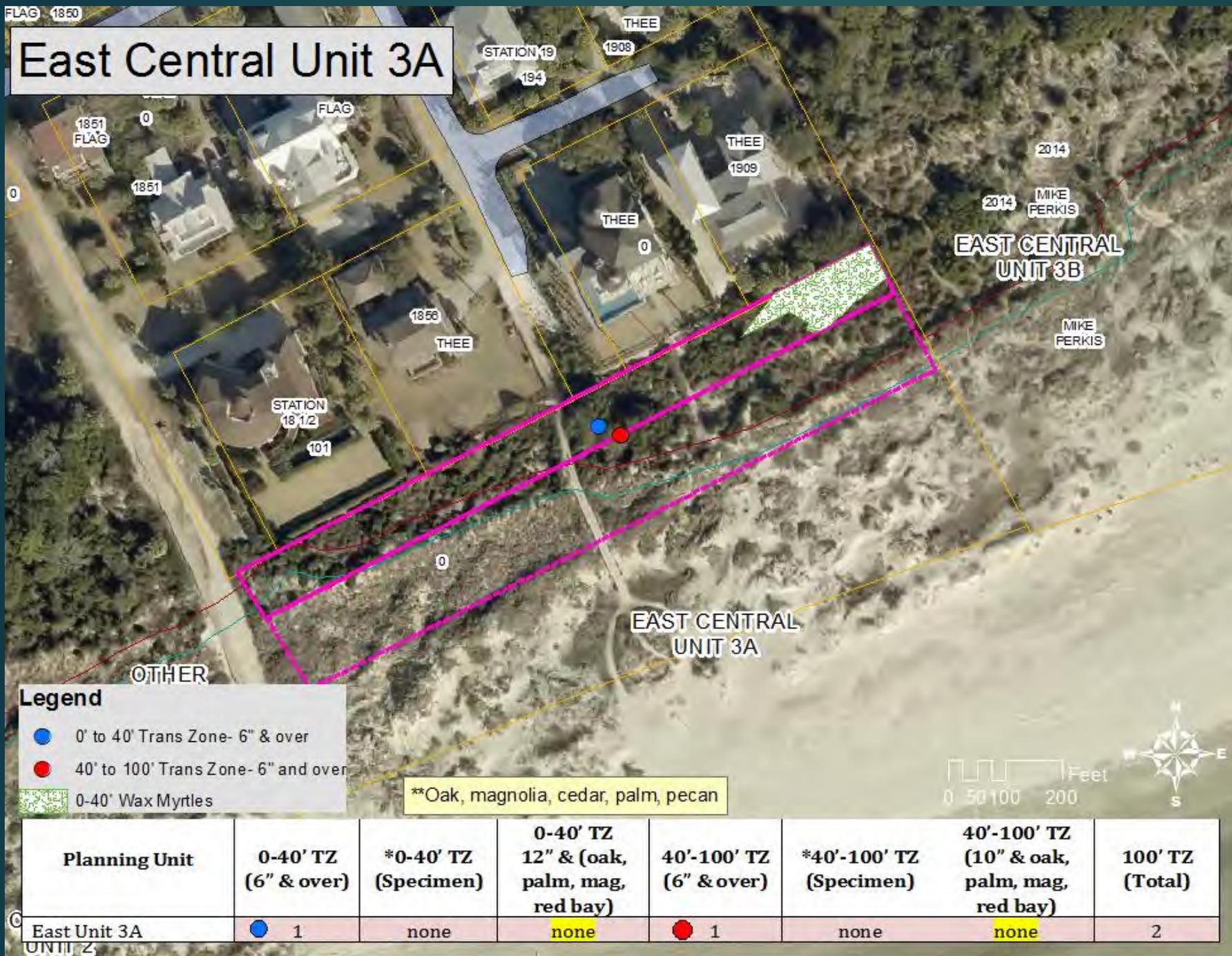
| Planning Unit | 0-40' TZ<br>(6"-Over) | *0-40' TZ<br>(specimen) | 0-40' TZ<br>12" & (oak, palm,<br>mag, red bay) | 40'-100' TZ<br>(6" & Over) | *40'-100' TZ<br>(specimen) | 40'-100' TZ<br>(10" & oak,<br>palm, mag,<br>red bay) | 100' TZ<br>(Total) |
|---------------|-----------------------|-------------------------|--|----------------------------|----------------------------|--|--------------------|
| West Unit 1   | 61                    | 14                      | 14   | 110                        | 52                         | 43   | 172                |

# West Central Unit 2



| Planning Unit       | 0-40' TZ (6" & over) | *0-40' TZ (Specimen) | 0-40' TZ 12" & (oak, palm, mag, red bay) | 40'-100' TZ (6" & over) | *40'-100' TZ (Specimen) | 40'-100' TZ (10" & oak, palm, mag, red bay) | 100' TZ (Total) |
|---------------------|----------------------|----------------------|--|-------------------------|-------------------------|---|-----------------|
| West Central Unit 2 | ● 57                 | 23                   | ● 15                                     | ● 95                    | 44                      | ● 18  | 152             |

# West Central Unit 1



# East Central Unit 3A

# East Central Unit 3A

**Legend**

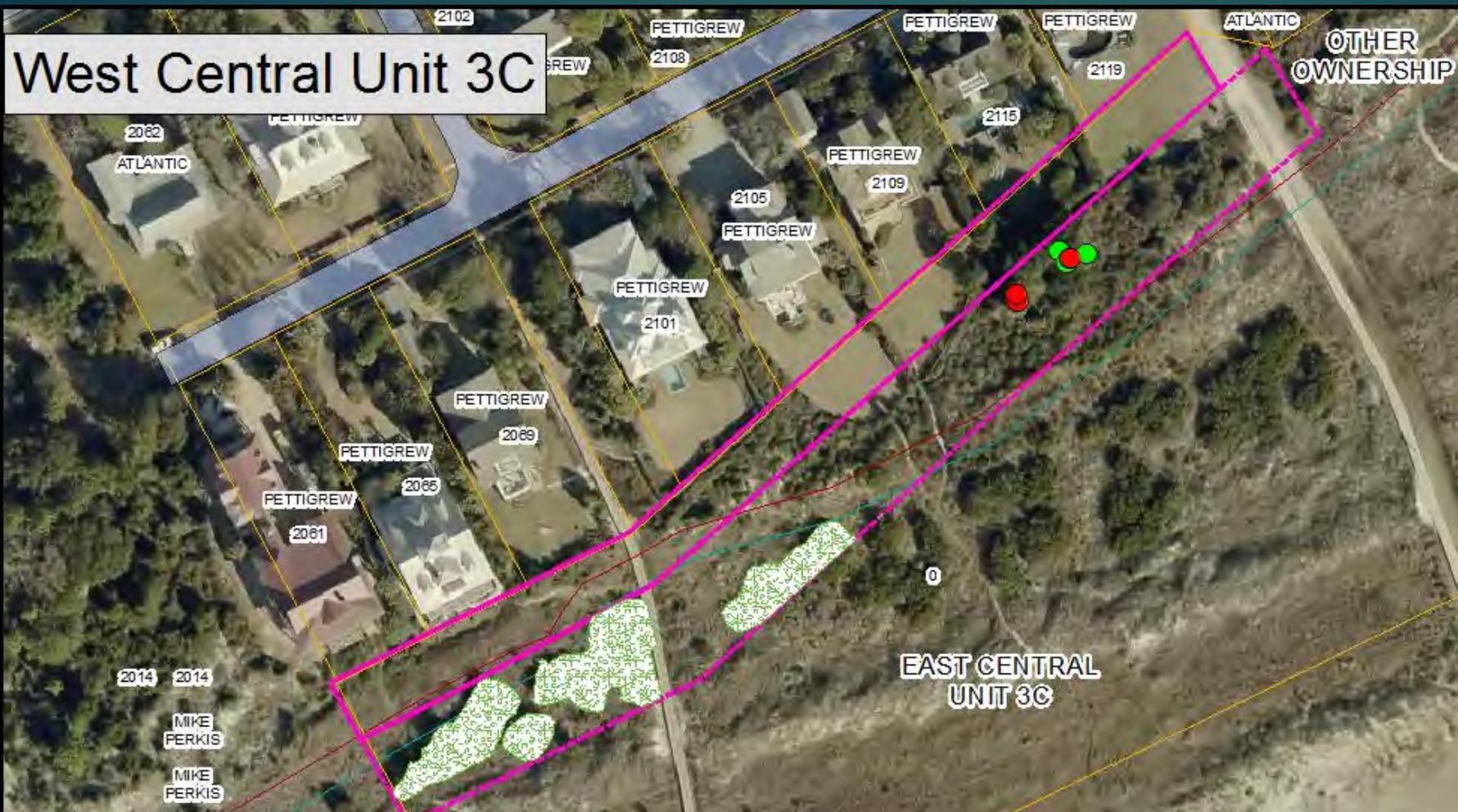
- 0' to 40' Trans Zone- 6" & over
- 40' to 100' Trans Zone- 6" and over
- 0-40' Wax Myrtles

\*\*Oak, magnolia, cedar, palm, pecan



| Planning Unit | 0-40' TZ (6" & over) | *0-40' TZ (Specimen) | 0-40' TZ 12" & (oak, palm, mag, red bay) | 40'-100' TZ (6" & over) | *40'-100' TZ (Specimen) | 40'-100' TZ (10" & oak, palm, mag, red bay) | 100' TZ (Total) |
|---------------|----------------------|----------------------|--|-------------------------|-------------------------|---|-----------------|
| East Unit 3A  | ● 1                  | none                 | none                                     | ● 1                     | none                    | none  | 2               |

# West Central Unit 3C



# East Central Unit 3C

### Legend

- 40' to 100' Trans Zone- 10" & oak, palm, mag, red bay
- 40' to 100' Trans Zone- 6" & over
- 40-100' Wax Myrtles

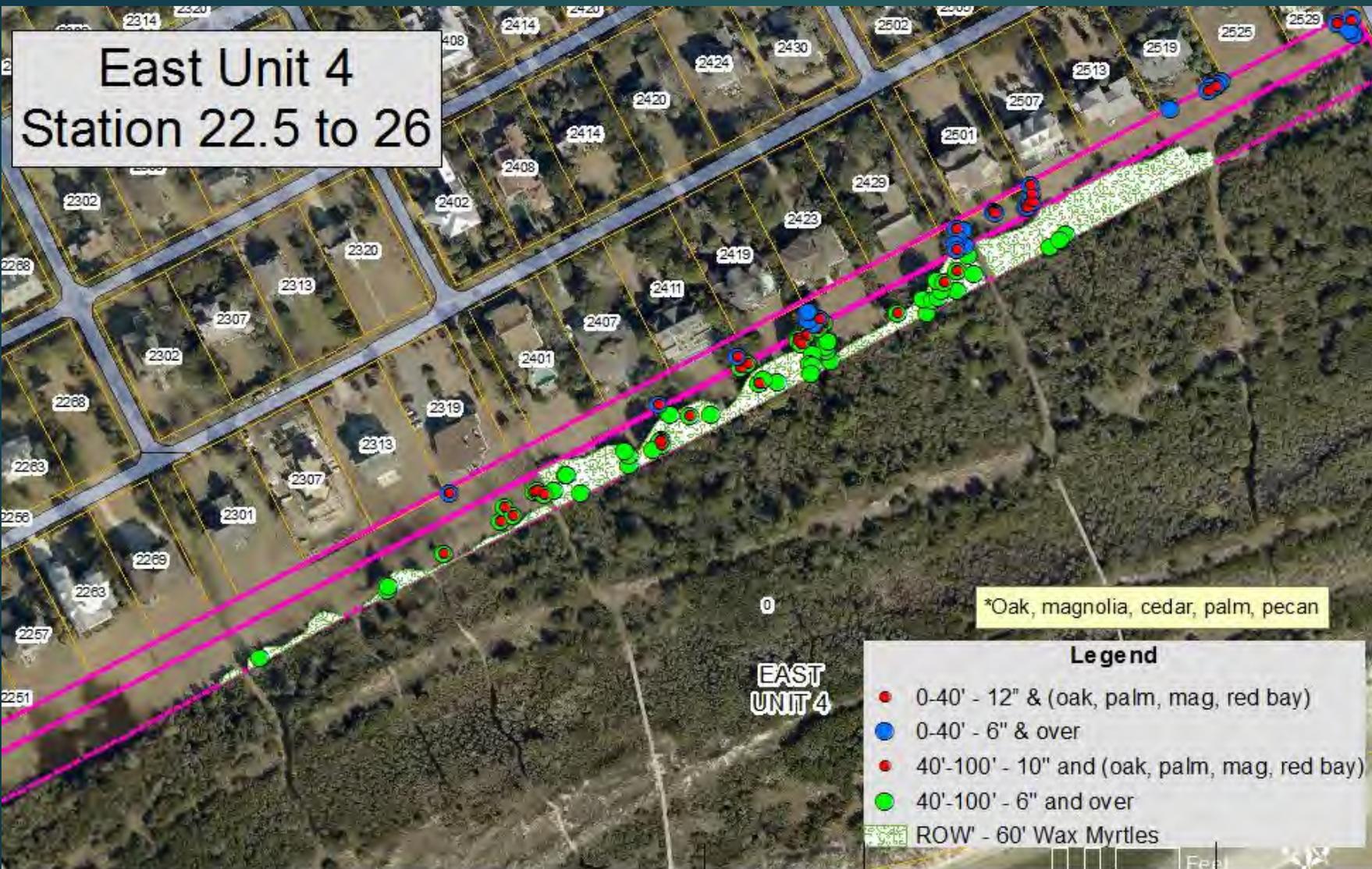
\*\*Oak, magnolia, cedar, palm, pecan



| Planning Unit | 0-40' TZ<br>(6" & over) | *0-40' TZ<br>(Specimen) | 0-40' TZ<br>12" & (oak,<br>palm, mag,<br>red bay) | 40'-100' TZ<br>(6" & over)             | *40'-100' TZ<br>(Specimen) | 40'-100' TZ<br>(10" & oak,<br>palm, mag,<br>red bay) | 100' TZ<br>(Total) |
|---------------|-------------------------|-------------------------|---|--|----------------------------|--|--------------------|
| East Unit 3C  | none                    | none                    | none  | <span style="color: green;">●</span> 6 | 6                          | <span style="color: red;">●</span> 3                 | 6                  |

# East Unit 4 Station 22.5 to 26

# East Unit 4: Sta. 22.5 to 26



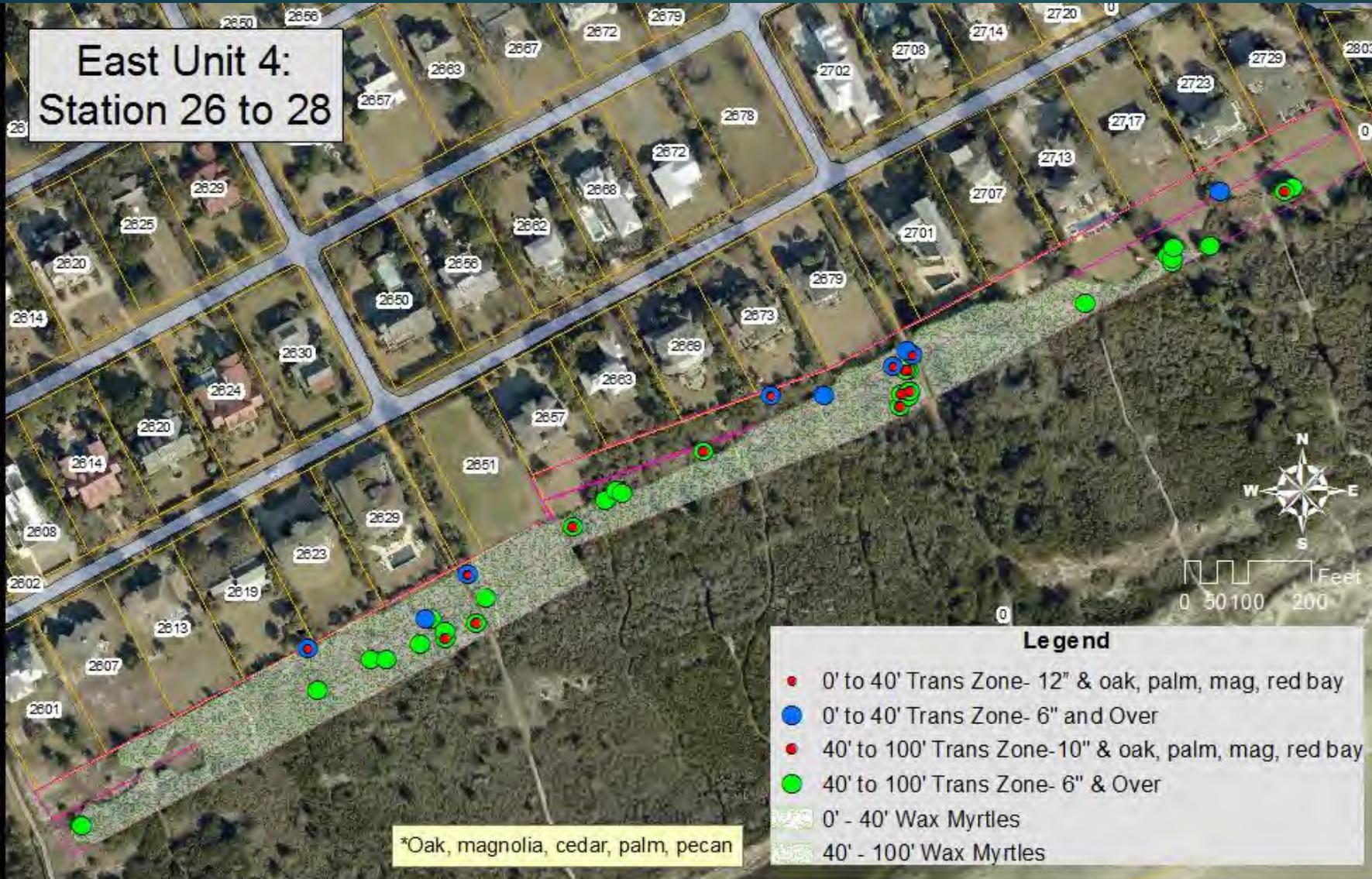
**EAST  
UNIT 4**

**Legend**

- 0-40' - 12" & (oak, palm, mag, red bay)
- 0-40' - 6" & over
- 40'-100' - 10" and (oak, palm, mag, red bay)
- 40'-100' - 6" and over
- ▨ ROW - 60' Wax Myrtles

| Planning Unit                 | ROW (40') TZ (6" & over) | *ROW (40') TZ (Specimen) | ROW (40') TZ 12" & (oak, palm, mag, red bay) | ROW'-100' TZ (6" & over) | *ROW'-100' TZ (Specimen) | ROW'-100' TZ (10" & oak, palm, mag, red bay) | 100' TZ (Total) |
|-------------------------------|--------------------------|--------------------------|--|--------------------------|--------------------------|--|-----------------|
| Bayonne Ex. ROW (22.5 to 26') | ● 32                     | 22                       | ● 18   | ● 58                     | 33                       | ● 23   | 90              |

# East Unit 4: Station 26 to 28



\*Oak, magnolia, cedar, palm, pecan

# East Unit 4: Sta. 26 to 28

| Planning Unit          | 0-40' TZ<br>(6" & over) | **0-40' TZ<br>(Specimen) | 0-40' TZ<br>12" & (oak,<br>palm, mag,<br>red bay) | 40'-100' TZ<br>(6" & over) | **40'-100' TZ<br>(Specimen) | 40'-100' TZ<br>(10" & oak,<br>palm, mag,<br>red bay) | 100' TZ<br>(Total) |
|------------------------|-------------------------|--------------------------|---|----------------------------|-----------------------------|--|--------------------|
| East Unit 4 (26 to 28) | ● 9                     | 5                        | ● 5   | ● 30                       | 23                          | ● 10   | 39                 |

**East Unit 4:  
Station 28 to 29**



\*Oak, magnolia, cedar, palm, pecan

| Planning Unit          | 0-40' TZ<br>(6" & over) | **0-40' TZ<br>(Specimen) | 0-40' TZ<br>12" & (oak,<br>palm, mag,<br>red bay) | 40'-100' TZ<br>(6" & over) | **40'-100' TZ<br>(Specimen) | 40'-100' TZ<br>(10" & oak,<br>palm, mag,<br>red bay) | 100' TZ<br>(Total) |
|------------------------|-------------------------|--------------------------|---|----------------------------|-----------------------------|--|--------------------|
| East Unit 4 (28 to 29) | 1                       | none                     | 0   | 5                          | 3                           | 0  | 6                  |

**East Unit 4:  
Sta. 28 to 29**

## Clark Transition Zone Plan Proposal for 01-25-2016

This plan allows for a true Transition Zone that allows for open space for views and breezes and a set back for safety from fire, wildlife and mosquitos.

The Transition Zone will be 100 Feet, as measured from the RS-zoned lot line (0 ft.) seaward (to 100 ft.) for all units/zones and will consist of two, differently managed bands: 0-40 ft. and 40-100 ft.

### 0-40 feet:

- Preserve 3 species 12" or larger. palm, oak, and magnolia
- Remove underbrush and shrubs, including myrtles

### 40-100 feet:

- Preserve palm, oak, and magnolia plus 3 species 10" or larger. Species to be determined but none from the Firewise flammable list.
- Remove underbrush and shrubs, including myrtles

### Rational for the Proposed Transition Zone Plan

The Principals for Management clearly call for:

- "The Town to be a good steward and a good neighbor to owners of properties that abut its land."
- "The Town also recognizes that scenic views and breezes inside and outside the accreted land are valuable natural resources."
- "The town should do what it can to respect the neighbors to the accreted land while meeting its stewardship responsibilities."
- "The Town's management plan may include a transition or edge band that abuts privately held properties that would be managed differently from, and more aggressively than, the (usually much deeper) seaward balance of the accreted land."
- "The transition/edge band should be managed to further the following objectives when appropriate:
  1. Provision of a buffer and unwanted wildlife
  2. Minimization of potential fire hazard
  3. Enhancement of public safety
  4. Enhancement of breezes
  5. Enhancement of possible sight lines to the property seaward of the band"

The rational for the 100 foot Transition Zone:

- The 100 feet represents a true transition zone to accomplish the principles noted above
- The clearing of the underbrush to the full depth helps with all provisions noted
- To provide for breezes the land breeze/shore breeze open landscape of at least the 100-foot depth is required to allow the breeze to drop below the tree line to provide benefit to the front row homes as well and those in rows behind
- The elimination of Firewise flammable species is required to mitigate fire potential
- The open landscape will better allow mosquito control spray reach larvae

The 100 Foot Transition Zone contains these coverage per measurement from the tree survey

### TREE COVERAGE

| Parcel                              | Acres       | Coverage   |
|-------------------------------------|-------------|------------|
| 16 - Sand Dunes                     | 3.0         | 1.3        |
| Sand Dunes                          | 0.9         | 0.5        |
| Sand Dunes - Light house            | 1.9         | 0.6        |
| Light House                         | 0.6         | 0.0 *      |
| Light house - School                | 1.2         | 0.0        |
| School                              | 1.4         | 0.0 *      |
| School - 22                         | 1.4         | 0.0        |
| 22 - 22 1/2                         | 1.0         | 0.0        |
| 22 1/2 - 23                         | 0.9         | 0.0        |
| 23-24                               | 1.0         | 0.1        |
| 24-25                               | 1.4         | 0.5        |
| 25-26                               | 1.3         | 0.0        |
| 26-26 1/2                           | 1.4         | 0.1        |
| 26 1/2 -27                          | 0.8         | 0.1        |
| 27 - 28                             | 1.4         | 0.1        |
| <b>Total Acres of Tree Coverage</b> | <b>19.6</b> | <b>3.3</b> |

### MYRTLE COVERAGE

| Parcel                                | Acres      |
|---------------------------------------|------------|
| 16 - Sand Dunes                       | 0.0        |
| Sand Dunes                            | 0.0        |
| Sand Dunes - Light house              | 0.1        |
| Light House                           | 0.0 *      |
| Light house - School                  | 0.1        |
| School                                | 0.0 *      |
| School - 22                           | 0.3        |
| 22 - 22 1/2                           | 0.0        |
| 22 1/2 - 23                           | 0.0        |
| 23-24                                 | 0.1        |
| 24-25                                 | 0.5        |
| 25-26                                 | 0.3        |
| 26-26 1/2                             | 1.2        |
| 26 1/2 -27                            | 0.9        |
| 27 - 28                               | 0.4        |
| <b>Total Acres of Myrtle Coverage</b> | <b>3.9</b> |

\* Not included in count

The below table identifies trees surveyed within the 40' and 100' transition zones by individual ALMP planning zone boundary. The data in the tables correspond with the individual maps shown in the attached PowerPoint Presentation:

- The counts '6" and over' refer to the total number of trees surveyed in a given transition zone
- 'Specimen' refers to all Oak, Magnolia, Red Cedar, Pecan, Sabal Palmetto
- Alternative Maintenance Proposal for 0' to 40' T-zone: Keep only '12" and oak, palm, mag, red bay'
- Alternative Maintenance Proposal for 40' to 100' T-zone: Keep only '10" and oak, palm, mag, red bay'

\* Specimen Trees: Oak, Magnolia, Red Cedar, Pecan, Sabal Palmetto

#### West Unit 1

| Planning Unit | 0-40' TZ<br>(6"-Over) | *0-40' TZ<br>(specimen) | 0-40' TZ<br>12" & (oak, palm,<br>mag, red bay) | 40'-100' TZ<br>(6" & Over) | *40'-100' TZ<br>(specimen) | 40'-100' TZ<br>(10" & oak,<br>palm, mag,<br>red bay) | 100' TZ<br>(Total) |
|---------------|-----------------------|-------------------------|--|----------------------------|----------------------------|--|--------------------|
| West Unit 1   | 61                    | 14                      | 14   | 110                        | 52                         | 43   | 171                |

#### West Central Unit 2

| Planning Unit       | 0-40' TZ<br>(6" & over) | *0-40' TZ<br>(Specimen) | 0-40' TZ<br>12" & (oak,<br>palm, mag,<br>red bay) | 40'-100' TZ<br>(6" & over) | *40'-100' TZ<br>(Specimen) | 40'-100' TZ<br>(10" & oak,<br>palm, mag,<br>red bay) | 100' TZ<br>(Total) |
|---------------------|-------------------------|-------------------------|---|----------------------------|----------------------------|--|--------------------|
| West Central Unit 2 | 57                      | 23                      | 15  | 95                         | 44                         | 18   | 152                |

#### East Unit 3A

| Planning Unit | 0-40' TZ<br>(6" & over) | *0-40' TZ<br>(Specimen) | 0-40' TZ<br>12" & (oak,<br>palm, mag,<br>red bay) | 40'-100' TZ<br>(6" & over) | *40'-100' TZ<br>(Specimen) | 40'-100' TZ<br>(10" & oak,<br>palm, mag,<br>red bay) | 100' TZ<br>(Total) |
|---------------|-------------------------|-------------------------|---|----------------------------|----------------------------|--|--------------------|
| East Unit 3A  | 1                       | none                    | none  | 1                          | none                       | none   | 2                  |

## East Unit 3C

| Planning Unit | 0-40' TZ<br>(6" & over) | *0-40' TZ<br>(Specimen) | 0-40' TZ<br>12" & (oak,<br>palm, mag,<br>red bay) | 40'-100' TZ<br>(6" & over) | *40'-100' TZ<br>(Specimen) | 40'-100' TZ<br>(10" & oak,<br>palm, mag,<br>red bay) | 100' TZ<br>(Total) |
|---------------|-------------------------|-------------------------|---|----------------------------|----------------------------|--|--------------------|
| East Unit 3C  | none                    | none                    | none  | 6                          | 6                          | 3  | 6                  |

## East Unit 4: 22.5 to 26

| Planning Unit               | 0-40' TZ<br>(6" & over) | *0-40' TZ<br>(Specimen) | 0-40' TZ<br>12" & (oak,<br>palm, mag,<br>red bay) | 40'-100' TZ<br>(6" & over) | *40'-100' TZ<br>(Specimen) | 40'-100' TZ<br>(10" & oak,<br>palm, mag,<br>red bay) | 100' TZ<br>(Total) |
|-----------------------------|-------------------------|-------------------------|---|----------------------------|----------------------------|--|--------------------|
| Bayonne Ex.,ROW<br>(40')    | 32                      | 27                      | N/A   | N/A                        | N/A                        | N/A  | 32                 |
| East Unit 4 (22.5 to<br>26) | 32                      | 18                      | 12  | 66                         | 9                          | 7  | 98                 |

## East Unit 4: 26 to 28

| Planning Unit          | 0-40' TZ<br>(6" & over) | **0-40' TZ<br>(Specimen) | 0-40' TZ<br>12" & (oak,<br>palm, mag,<br>red bay) | 40'-100' TZ<br>(6" & over) | **40'-100' TZ<br>(Specimen) | 40'-100' TZ<br>(10" & oak,<br>palm, mag,<br>red bay) | 100' TZ<br>(Total) |
|------------------------|-------------------------|--------------------------|---|----------------------------|-----------------------------|--|--------------------|
| East Unit 4 (26 to 28) | 9                       | 5                        | 5   | 30                         | 23                          | 10   | 39                 |

## East Unit 4: 28 to 29

| Planning Unit          | 0-40' TZ<br>(6" & over) | **0-40' TZ<br>(Specimen) | 0-40' TZ<br>12" & (oak,<br>palm, mag,<br>red bay) | 40'-100' TZ<br>(6" & over) | **40'-100' TZ<br>(Specimen) | 40'-100' TZ<br>(10" & oak,<br>palm, mag,<br>red bay) | 100' TZ<br>(Total) |
|------------------------|-------------------------|--------------------------|---|----------------------------|-----------------------------|--|--------------------|
| East Unit 4 (28 to 29) | 1                       | none                     | 1   | 5                          | 3                           | 0  | 6                  |

# Landscaping

*Can Be* Attractive &  
**FIREWISE**

## "FIRE SMART" Plant List for SC

*Native and Landscape*

### HIGHLY Flammable Plants (Plants that will ignite faster and burn readily)

#### SHRUBS

- Arborvitae
- Gallberry
- Hollies
- Junipers
- Podocarpus
- Saw Palmetto
- Wax Myrtle
- Yaupon

#### TREES

- Eastern red cedar
- Eucalyptus
- Leyland cypress
- Pines



#### GROUNDCOVERS, BEDDING PLANTS, and VINES

- Pampas grass
- Pine straw

*Note: When living in the Wildland Urban Interface areas, it is recommended that these plants NOT be planted adjacent to any wooden structure such as house, fences, or decks. This list is NOT inclusive as other plants with similar characteristics, i.e. low moisture content, high percentage of dead limbs or are under stress, can affect their performance.*

### LESS Flammable Plants with some fire resistance

#### TREES

- Ash
- Birch
- Cherry
- Cottonwood
- Crab apple
- Dogwood
- Elm
- Hickory
- Maple
- Oak
- Plum
- Redbud
- Southern Magnolia
- Sweetbay Magnolia
- Tulip tree (Yellow Poplar)
- Willow



## **SHRUBS**

- Azalea
- Barberry (Mahonia)
- Bottlebrush
- Boxwood
- Burning bush
- Butterfly bush
- Camellia
- Cleyera
- Crape myrtle
- Eleagnus
- Forsythia
- Gardenia
- Hydrangea
- Indian Hawthorne
- Ligustrum
- Liriope
- Loripetalum
- Mahonia
- Muhlenbergia
- Oleander
- Philodendron
- Photinia
- Pittosporum
- Privet
- Pyracantha, firethorn
- Rhododendron
- Rose
- Russian olive
- Spirea
- Spirea
- Viburnum
- Weigela
- Witch Hazel



## **GROUNDCOVERS, BEDDING PLANTS, & VINES**

- Blue-eyed grass
- Daylily
- Dusty miller, senecio
- Honeysuckle
- Iris
- Lantana
- Periwinkle
- St. Augustine grass
- Stonecrop
- Trumpet creeper
- Yarrow
- Yellow Jessamine
- Yellow-eyed grass



*Note: This list is NOT inclusive. Any plant will burn given sufficient exposure to heat. Plants suffering from moisture stress will also be less resistant fire to than adequately watered plants.*

**There are no ~~fire proof~~ plants, but some are more fire resistant than others.**

### **These "fire smart" plants:**

- Are less likely to ignite from a wildfire.
- Burn less intensely when they do ignite, and spread the fire slower.
- Are lower growing or smaller.
- Have stems and leaves that are not resinous, oily, or waxy.
- Have a high moisture content; succulent plants.
- Easy to maintain and prune.
- Have less accumulated debris and fewer dead branches.
- Have an open, loose branching pattern.
- Are drought resistant, requiring less irrigation.

## **Councilmember Middaugh Proposal for Transition Zone 11-30-2015**

This proposal is based on the extensive work by the LUNR Committee and Town Council members since 2009, as well as extensive discussions with current residents and fellow Council members. It is based on the desire to be a good neighbor to owners of property adjoining the Protected Land and at the same time respect the Protected Land Trust Area that is highly valued by many Island residents for its great natural beauty, wildlife, recreational and educational value, and protection from storms.

**The Transition Zone will be 100 feet, as measured from the RS-zoned lot line (0 ft.) seaward (to 100 ft.) for all Units/Zones and will consist of two, differently managed bands: 0-40 ft. and 40-100 ft.**

**0-40 feet:** Preserve trees of 6" diameter and larger (species to be discussed, see below)  
Remove underbrush and shrubs, including myrtles  
Trees less than 6" diameter may be removed with a site plan.

The purpose of the site plan is to identify, for possible preservation, small trees of desirable species of that seldom reach 6" diameter at maturity:

*Hercules Club/Toothache Tree, Black Cherry, Yaupon, Red Bay*

**40-100 feet:** Thin vegetation to provide a transition to the Protected Land beyond.  
All trees to remain (except those on the List of Non-Native Invasive Species).  
Underbrush to be removed  
In areas adjacent to Forested Areas: all shrubs, including myrtles, to be removed.  
In areas adjacent to Maritime Grassland and Maritime Shrubland: Myrtles and  
Other Maritime Shrubs to be thinned to 1/3 of current coverage.

**OCRM Setback Line & Baseline:** In areas where the Transition Zone (wholly or in part) lies seaward of the OCRM Setback Line and Baseline (Critical Line), DHEC approval and permit will be required for removal of vegetation.

## **Rationale for the Proposed Transition Zone Plan**

This Proposed Plan achieves the overarching goal of providing a true Transition by providing - clearly and quantitatively - for greater manipulation of the Protected Land vegetation closest to adjacent homes and lesser manipulation seaward where the TZ joins the rest of the Protected Land. This Plan also takes into account the different characteristics of the land across the four Management Units. This is accomplished by specifying two differently managed Bands within a common 100 ft. Transition Zone.

*Neither of the two Transition Zones, that have been considered previously, accomplish a real transition.*

The Plan for a single 100 ft. Transition Zone for all Units (approved by Council on 5-20-2014) recognized the problem of selecting a different TZ size for each of the four Units, primarily based on distance from the ocean – a factor that could vary within a Unit, overlap across Units, and change over time. No management strategy was included, but it was implied (in discussion) that management would be uniform throughout.

The more detailed LUNR Committee approach (approved by LUNR Committee on April 11, 2014) recognized the strong logic of providing for differences in management based on differences in the

Protected Land itself. This was to be accomplished by specifying a range for the Transition Zone that varied from Unit to Unit (e.g., 40 to 100 ft. for Unit 1, and 25-50 for Unit 3A and 3C). However, there was no guidance on how the management strategy might differ within this range – if at all. Instead, there was adoption of a single strategy for each Unit (e.g., manage by tree removal in Unit 1; manage as grassland for Unit 4) to be carried out uniformly *for the entire range*, and with the likelihood that the range *maximum* would apply.

The Proposed Compromise Transition Zone Plan combines elements of both previous approaches. It adds a practical method for providing a true transition between homes and the Protected Land, and for adapting management strategy for different areas. This is accomplished by specifying two differently managed bands of 0 to 40 feet and 40 to 100 ft. within a common 100 ft. Transition Zone.

#### **The Rationale for selection of the 0-40 foot Band for heaviest manipulation.**

- a) 40 ft. is sufficient to achieve the goals of enhancement of breezes and relief from wildlife and mosquitoes by removal of underbrush, shrubs and small understory trees. Also, 30 ft. is the defensible space recommended by the SC Forestry Service for fire management. The LUNR Committee (April 11, 2014) and the Accreted Land Management Draft Plan 3A (November, 2011), include 40 ft. in the recommended Transition Zone Ranges for all four Units. This choice acknowledges this 5+ year body of work.
- b) Rationale: 40 ft. is the typical width of a neighborhood road bed (20 ft.) plus 10 ft. ROWS (20 ft.). Island-wide, this provides open space between Residential Lots for breezes and relief from fire hazard and mosquitoes. This 40 ft. of open space allows Owls, Hawks, etc. to spot rodents and snakes crossing from a heavily vegetated lot to a neighbor's yard across the street. 40 ft. will provide the same benefit to homes adjacent to the Land Trust Area.

#### **The Rationale for selection of a 40-100 foot Band for lighter manipulation.**

- a) In forested areas, 40 to 100 ft. in which underbrush and shrubs are cleared, but no trees removed, will provide significant additional relief and enhanced forest views. This will provide a real transition to the seaward Protected Land without distorting the naturally developing mixture of tree species that belong to a Maritime Forest. It is essential that trees not be removed in this area. Trees will be younger and smaller with greater distance seaward, especially for slower growing hardwoods such as oaks. As a result, if trees are removed in the 40 to 100 ft. Band, based on diameter as in the 0 to 40 ft. Band, a higher proportion of trees will be removed, fewer large trees will remain, and species diversity will be reduced. This is the exact reverse of the desired real transition.
- b) In areas where the Transition Zone is adjacent to Maritime Grassland and Maritime Shrubland, clearing of underbrush and thinning of shrubs (including myrtles) to 1/3 of the current coverage will provide the desired relief and automatically increase native maritime grassland vegetation, which is naturally interspersed with maritime shrubs. This will provide a true transition to the Maritime Shrubland beyond. There should be no clear-cutting of myrtles and other maritime shrubs – this will simply produce a wall of shrubs at the 100 ft. line. Appropriate thinning will repair the damage done by years of cutting to 5 ft. and reinstate the natural mixture of maritime grassland, shrubs and trees.

## Previously Proposed Transition Zones by Unit/Zone

(in feet, measured from private property line seaward)

### By LUNR Committee April 11, 2014

Unit 1: 40 to 100  
Unit 2: 40 to 70  
Unit 3A & 3C: 25 to 50  
Unit 4: 40 to 100

### By ALMP 3A Nov 22, 2011

40 to 100  
32 to 40  
23 to 40 (3A) 10 to 40 (3C)  
40 to 100

By Town Council May 20, 2014 All Units 100 feet with an additional 20 feet at Council discretion.

### For Discussion: Species of Trees (6" in diameter) to be preserved in the 0-40 ft. Band of the TZ

- 1) Per Zoning Ordinance, Article XVII Tree Commission, Sec. 21-158 p 78 and Sec. 21-164 p 82  
Category I Trees: 16" diameter, is a "Significant" tree, needing Tree Commission Approval  
Category II Trees: 6" diameter of any species (and any size Palmetto), is a "Protected" tree, and a permit is required for removal.  
Category I and II trees must be replaced by the same species for  
Pecans, Cedars, Oaks, Magnolias, Palmettos.
- 2) The Tree Commission also has a Protected Tree category (as part of its Approved Tree List).  
*These are also the species that must be replaced by the same species under Category II, above.*

|                   |                    |                               |
|-------------------|--------------------|-------------------------------|
| Eastern Red Cedar | Southern Red Cedar | (Both are Red Cedar variants) |
| Laurel Oak        | Live Oak           |                               |
| Pecan             | Southern Magnolia  |                               |
| Palmetto          |                    |                               |
- 3) Additional Trees are found in the Protected Land and contribute to the Maritime Ecosystem

|               |  |
|---------------|--|
| Black Cherry  | Carolina Willow / Coastal Plain Willow |
| Red Mulberry  | Hackberry / Sugarberry                 |
| Longleaf pine | Additional Oak species                 |
- 4) Additional Small Trees are found in the Protected Land and contribute to the Ecosystem  
*(All of these are on the Tree Commission Approved Tree List)*

|              |                                |
|--------------|--------------------------------|
| Yaupon Holly | Hercules Club / Toothache Tree |
| Red Bay      | Carolina Cherry Laurel         |
| Wax Myrtle   | Groundsel Tree / Baccharis     |

### For Information: Size Considerations for Transition Zone

Council needs to consider more than just depth of Transition Zone; e.g., 100 ft. vs 40 ft. when making management decisions. The Total Area size, in square feet, is an important measurement of the environmental impact and the relative costs of implementation and maintenance of a Plan.

**Calculation of Estimated Transition Zone Area:**

The approximate length of the Transition Zone from Station 16 to Station 28 ½ = 2 miles  
2 miles @ 5280 linear ft. per mile = 10,560 linear feet

With a 100 ft. TZ depth:  $100 \times 10,560$  linear feet = 1,056,000 square feet of land Area

With 44,000 sq. ft. per acre:  $1,056,000 \text{ sq. ft.} \div 44,000 \text{ sq. ft.} = 24$  acres

Converting to standard half-acre lots:  $24 \times 2 = 48$  half-acre lots

With a 40 ft. TZ depth the values are  $.4 \times 100 \text{ ft. values} : 422,400 \text{ sq. ft. of land Area}$

9.6 acres

19.2 half-acre lots

**Conclusion:** Manipulation of a 100 foot deep TZ = manipulation of 48 half-acre lots

Manipulation of a 40 foot deep TZ = manipulation of 19.2 half-acre lots

**A plan with more reliance on underbrush clearance and less on tree removal will be more cost-effective.:**