

May 3, 2018

Catherine Riiska, MS, PWS, Principal Planner  
Growth Management Department  
Martin County Board of County Commissioners  
2401 S.E. Monterey Road  
Stuart, FL 34996

Re:	Project Name:	Circle K – Revised Major Final Site Plan
	CH Project No.:	16-0804
	Project Number:	P166-002
	Application Type and Number:	D059 201700358
	Report Number:	2018_0418_C166-002_DRT_Staff_FINAL.docx

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Dear Ms. Riiska:

Please accept this response letter addressing comments provided by staff on April 18<sup>th</sup>, 2018.

***F. Determination of compliance with Comprehensive Growth Management Plan requirements - Growth Management Department***

**Unresolved Issues:**

**Item #1:**

Consistency with Comprehensive Growth Management Plan

This application cannot be deemed to be in compliance with the Martin County Comprehensive Growth Management Plan (CGMP) until the issues identified in this report have been satisfactorily resolved.

MARTIN COUNTY, FLA., CGMP POLICY 4.1A.1. (2016)

***G. Determination of compliance with land use, site design standards, zoning, and procedural requirements - Growth Management Department***

**Unresolved Issues:**

**Item #1:**

Option 1 Other Agency Permits

The applicant has elected 'Option 1' regarding Agency permit submittal for review for consistency. No final site plan shall be approved until all applicable local, state, and federal approved permits are submitted and reviewed by the County Administrator. If an application is made to any permitting agency for a modification to a permit that was required to be issued prior to final site plan approval, the application for the permit modification must be submitted concurrently to Martin County. MARTIN COUNTY, FLA., LDR §10.9.A (2016)

**Remedy/Suggestion/Clarification:**

Thank you for submitting the Federal Jurisdiction Determination from the Army Corp of Engineers (ACOE), which appears to satisfy the federal authorizations. However, other state and local authorizations remain required. Please submit documentation of the remaining required other agency authorizations or exemptions, as cited in Section V of this report.

Alternatively, the applicant may request in writing to utilize 'Option 2' pursuant to Section 10.9.A.2., LDR, Martin County, Fla. (2016), and elect to submit remaining outstanding authorizations or permits after

development order approval and before scheduling the pre-construction site meeting along with a \$600.00 consistency review fee.

Applicant Response: We would like to request option 2 and submit all outstanding permits after development order approval. We will provide the \$600.00 consistency review fee.

**Item #2:**

Application Resubmittal Fee

If the applicant elects to make a resubmittal, an additional fee is required for the review of the elective resubmittal of documents for this development application. Please remit the \$2,282.00 elective resubmittal review fee with the resubmittal package. MARTIN COUNTY, FLA., LDR, §10.2.D.4

Applicant Response: Acknowledged, the check for the \$2,282.00 is included with this response to comments.

**Additional Information:**

**Information #1:**

No land clearing is authorized prior to the mandatory pre-construction meeting for the project. Property corners and preservation areas shall be located by a licensed land surveyor and clearly marked in the field prior to the pre- construction meeting. Authorization for clearing to install erosion control devices and preserve barricades will be granted at the pre-construction meeting. No additional land clearing shall commence until a satisfactory inspection of the required control structures and barricades has been obtained. Authorization for the relocation of gopher tortoises within the development, as provided for on state agency permits, may be granted by the Growth Management Department upon review of required permit materials. MARTIN COUNTY, FLA., LDR § 4.37

**Information #2:**

Timetable Of Development - Final

The timetable of development for final site plans require all permits to be obtained within one year of approval and require all construction to be completed within two years of approval. [Martin County, Fla., LDR, Sections 10.1 and 5.32 (2016)]

***H. Determination of compliance with the urban design and community redevelopment requirements – Community Development Department***

**Commercial Design**

**Unresolved Issues:**

**Item #1:**

Artwork - Commercial Developments

In addition to all other requirements of this subsection 4.872.C, Land Development Regulations, Martin County, Fla. (2013), developments located at an intersection of two or more arterial or collector streets shall provide a prominent architectural feature such as, but not limited to a monument, sculpture or clock tower to emphasize their location as gateways and transition within the community. SECTION 4.872.C.5., LDR, MARTIN COUNTY, FLA. (2013)

**Remedy/Suggestion/Clarification:**

Please show on the Site Plan the required architectural feature.

Applicant Response: Acknowledged, an architectural element has been added to the site plan emphasizing the location as a gateway. It has been added to the corner of SE Federal HWY and SE Cove Rd.

**Item #2:**

Bicycle And Pedestrian Amenities

Bicycle and pedestrian amenities shall be provided as determined by the square footage of buildings on the site. These amenities may be incorporated into a pedestrian arcade or similar feature that otherwise meets the requirements of this division 20. Bicycle racks shall be provided within 50 feet of any customer

entrance. The design of all amenities shall be of durable, long-lasting materials, consistent with the design of the principal structures on site and principles found in Bicycle Facilities Planning and Design Handbook (State of Florida, Department of Transportation, 1997). Benches shall not be less than six feet in length and shall have either structural or vegetative shading. Required bike racks shall be the inverted "U" type and shall be designed to store a minimum of six bicycles each. MARTIN COUNTY, FLA., LDR, § 4.873.B. (2013)

**Remedy/Suggestion/Clarification:**

Please show on sheet 2 of the Revised Final Site Plan a detail of the required bike rack designed to store a minimum of 6 bicycles.

*Applicant Response: The bike rack detail has been updated to show how it will hold a minimum of 6 bikes.*

**Community Redevelopment Area**

The proposed project is not located within a Community Redevelopment Area. Therefore, the Community Redevelopment Area reviewer was not required to review this application. MARTIN COUNTY, FLA., LDR ARTICLE 3, DIVISION 6 (2016)

*Applicant Response: Acknowledged.*

***I. Determination of compliance with the property management requirements – Engineering Department***

No dedication of additional right of way is required or proposed by the Applicant pursuant to the Roadway Classifications set forth in Section 4.843.B, Land Development Regulations, Martin County, Fla. [2001] which includes Table 4.19.1 that lists the minimum right of way requirements. Therefore, the Applicant is not required to submit due diligence materials for review by the Martin County Real Property Division.

*Applicant Response: Acknowledged.*

***J. Determination of compliance with environmental and landscaping requirements - Growth Management Department***

**Environmental**

**Unresolved Issues:**

**Item #1:**

Land Clearing Page

The following shall be included on the land-clearing page:

1. Please show orange barricade fence along the limits of clearing to the south of the upland preserve area and on the west side of the preserve. Please also add a detail for the orange preserve barricade.

*Applicant Response: Fencing has been revised to be along the southern and western boundary of the preserve area. Refer to sheet ES2.0 for the orange barricade fence detail.*

2. Please show silt fencing on the west side of the preserve to protect it during installation of the drainage pipe. Silt fencing shall be offset a minimum of five feet from the preserve boundary.

*Applicant Response: Silt fencing has been added.*

3. Please correct the sign detail for the SWPPP sign to show "SS" and not "ST". Please also add a detail and location for the permit box.

*Applicant Response: SWPPP detail has been revised and a permit box detail has been added to the SWPPP detail.*

## **Landscape**

### **Unresolved Issues:**

#### **Item 1:**

##### Construction Standards - Tree Protection

Please provide for the locations, construction and maintenance requirements of tree protection barricades on the appropriate pages of the landscape and construction plans [Section 4.666.B., LDR]. The following shall be included on the land-clearing page:

Location of protected trees with tree protection barricades, where warranted. Barricades must be constructed around the critical protection zone of each tree or cluster of trees.

Construction details for the installation of erosion control devices and tree protection barricades. All barricades must be maintained intact for the duration of construction.

Construction standards/criteria that states: During periods of development and construction, the areas within the drip-line of preserved trees shall be maintained at their original grade with pervious landscape material. Within these areas, there shall be no trenching or cutting of roots; no fill, compaction or removal of soil; and , no use of concrete, paint, chemicals or other foreign substances.

These barricades must be constructed of a minimum of one-fourth-inch diameter rope which is yellow or orange in color and made of nylon or poly. The rope is to be attached to a minimum of 2 × 2 wooden poles, iron rebar, two inches or greater PVC pipe or other material with prior approval of the Growth Management Department. The rope must be a minimum of four feet off the ground and may not be attached to any vegetation.

#### **Remedy/Suggestion/Clarification:**

Tree protection must be shown on both landscape plans and construction plans. Provide detail of tree barricade on construction plans. Note to refer to landscape plans is not sufficient direction to site contractor.

4.9.18. Tree barricade locations are not shown on construction plans, provide detail of tree barricade on clearing plans. Response letter states that tree barricade detail is shown on site plan and construction plans; however, I cannot find this detail. Detail does not need to be on the site plan.

[Applicant Response: Acknowledged. The tree protection detail has been added to the construction plans on sheet ES2.0](#)

#### **Item 2:**

##### Preserve Area Interface Requirements

Please provide for the following planting requirements, pursuant to Sec 4.663.E., LDR:

A preserve area interface shall be established between required landscaping and stormwater treatment areas and preservation areas when preservation areas exist on a development site and when preserve areas abut a development site. The preserve area interface shall include a consolidation and connection of landscaping and stormwater treatment areas with preservation areas. Where more than one preservation area exists on a development site or abutting a development site multiple preserve area interfaces shall be created. Within the preserve area interface the use of plant materials shall be restricted to native species.

The following preserve area interface criteria shall be documented and met for all development sites where preservation areas are identified and where preserve areas have been identified adjacent to a development site:

1. Stormwater management systems. Plantings within dry retention and detention stormwater areas abutting preserve areas shall be restricted to native trees, native shrubs and native groundcovers. Wet retention and detention stormwater areas abutting preserve areas shall be designed and planted as littoral and upland transition zone areas (preserve area interface) and connected to preserve areas pursuant to Article 4, Division 8, LDR, MCC.

Add a note to the site plan and landscape plan to state that stormwater management areas are to be maintained with planted native vegetation, in perpetuity.

#### **Remedy/Suggestion/Clarification:**

4.9.18. Response says that only native vegetation is utilized adjacent to the preserve, however bahia sod is not a native species. The retention area needs to be consolidated with the preserve area as required by Code and planted with native species.

Applicant Response: Per discussions with staff additional native plantings have been added to the drainage area to satisfy the preserve area interface.

#### ***K. Determination of compliance with transportation requirements - Engineering Department***

##### **Findings of Compliance:**

The Traffic Division of the Engineering Department finds this application in compliance.

##### **Compliance with Adequate Public Facilities Ordinance:**

Staff has reviewed the Traffic Statement prepared by O'Rourke Engineering and Planning, dated January 2018. O'Rourke Engineering and Planning stated that the site's maximum impact was assumed to be 37 directional trips during the PM peak hour. Staff finds that Cove Road is the recipient of a majority of the generated trips. The generalized service capacity of Cove Road is 880. The project impact is 2.5% of the maximum volume of that roadway. Cove Road is currently operating at a level of service C; it is anticipated to operate at level of service C at buildout (year 2020).

Applicant Response: Acknowledged.

#### ***L. Determination of compliance with county surveyor - Engineering Department***

The applicant has provided a certified boundary and topographic survey for the proposed development, pursuant to Section 10.1.F., LDR, Martin County, Fla. (2016). Therefore, the Engineering Department was not required to review this application for consistency with the Martin County Codes for survey requirements contained in Article 4, LDR, Martin County, Fla.

Applicant Response: Acknowledged.

#### ***M. Determination of compliance with engineering, storm water and flood management requirements - Engineering Department***

##### **Unresolved Issues:**

##### **Item #1:**

Rights Of Way Improvements

1. The proposed turn lane on SR-5 (SE Federal Highway) does not meet the minimum length specified by FDOT Index #301

Applicant Response: For a 45 mph road the striping length is 100' and from the end of striping to the end of taper is 85'. Refer to revised sheet C1.1 for dimensions.

2. As previously requested, dimension the width of the proposed turn lane along SR-5 (SE Federal Highway) on the Final Site Plans and Construction Plans.

Applicant Response: The dimension has been added. Refer to revised sheet C1.1.

3. Demonstrate that the proposed turn lane meets the minimum 3% cross slope requirement.

Applicant Response: Refer to sheet C3.1.

4. As previously requested include a bike lane (between the turn lane and through lane) along SR-5 (SE Federal Highway) on the Final Site Plans and Construction Plans.

Applicant Response: Acknowledged. The bike lane has been provided and will be shown more clearly. Refer to revised sheets C1.0 and C1.1 for bike lane striping.

5. Demonstrate that the existing roadside drainage along SE Federal Highway is not being blocked. Provide details (including inverts) for driveway culvert if required. [MARTIN COUNTY, FLA., LDR SECTION 4.843.D (2010)]

Applicant Response: Inlet has been added to provide positive drainage. Refer to revised sheet C2.0.

6. It is unclear if the existing drainage inlet within the proposed paved shoulder along SR-5 (SE Federal Highway) is being relocated. The inlet is not shown consistently on all the plan sheets. Show details for relocation of existing drainage inlet, or show new location if inlet has already been moved.

Applicant Response: The inlets are being removed and replaced with proposed inlets that will tie into the existing 24"RCP pipe.

7. Although the crosswalk markings at both driveways were revised in the Construction plans for consistency with Detail R-120B for Stop Controlled conditions, the Final Site Plan still shows markings for Mid-Block Crosswalks.

Applicant Response: The final site plan has been updated to reflect the parallel markings for the cross walk.

8. The light pole that is being relocated is maintained by Martin County.
  - a. Provide electrical details of the light pole relocation.

Applicant Response: Refer to revised sheet C4.0 for light pole relocation.

- b. Add the following notes to the Construction Plans:
  - i. All street light poles and circuits relocations must be done by a certified electrical contractor.
  - ii. Contact Bobby Allensworth at 772-288-5465 prior to any activities that require changes to the street light circuits.
  - iii. Relocate all street light circuits the same day of the pole relocation.

Applicant Response: Refer to revised sheet DM1.0.

**Item #2:**

Off Street Parking

All proposed sidewalks must be 6-feet in width.

Applicant Response: Acknowledged. The side walks have been checked for consistency with this code section, all sidewalks measure 6'.

**Item #3:**

Consistency With Other Plans

Provide the OR BK & PG for the utility easement shown on the Final Site plan.

Applicant Response: Acknowledged. All recorded easements show the recording information.

**Item #4:**

Stormwater Management Submitted Materials

A Stormwater Maintenance Plan was not included in the resubmittal. The Stormwater Maintenance Plan must include, at a minimum, the following: A written plan describing in detail the operation and maintenance of the stormwater management system in order to ensure the perpetual functioning of the system. This plan should include a detailed checklist of items that must be inspected on an annual basis, or more frequently as necessary, for the proper operation of the system. The stormwater maintenance plan shall ensure that all areas within the stormwater management system have a plan for the removal of nuisance exotics. In addition, the continued monitoring of nuisance exotics shall be included in the maintenance plan to ensure that no regrowth has occurred. [MARTIN COUNTY, FLA., LDR SECTION 4.386 (2015)]

[Applicant Response: A revised Stormwater Maintenance Plan has been included with this resubmittal.](#)

**Item #5:**

Stormwater Management Pre-Development

As previously requested, provide documentation that supports the tailwater design elevation for the FDOT drainage ditch. The application referenced as documentation has not been approved. Staff has also requested supporting documentation from that applicant.

[Applicant Response: We reached out to FDOT District 4 Drainage Office for information regarding the US-1 drainage system and the FDOT lateral canal. The design tailwater has been updated per the design highwater level of the ditch in the US-1 design plans, FDOT Project #89010-3500 / SFWMD application # 990611-6. A copy of the relevant pages of this report have been included in Appendix D of the revised stormwater report.](#)

**Item #6:**

Stormwater Management Post-Development

1. Revise the post development basin boundary map to accurately reflect the proposed system. The perimeter berm should be located along the basin limits. Show where the perimeter berm is being met on the plans.

[Applicant Response: A revised Post-Development Basin Map which reflects the currently-proposed drainage system has been included in the revised drainage report. The portion of the perimeter berm not within the pond bank has been outlined on the plans and in the post-development basin exhibit.](#)

2. As previously requested, the Water Table Elevation in the percolation link of the ICPR Drawdown Report, must be set at the Wet Season Water Table. The Water Table Elevation is set at 11' in the simulation, but at 13.5' in the rest of the calculations and report.

[Applicant Response: The drainage system has been designed, and the pond recovery is able to be accomplished without the use of percolation. The groundwater table and percolation link have been removed from the updated ICPR model.](#)

3. As previously requested, provide supporting documentation for the horizontal and vertical conductivity assumed for this Report.

[Applicant Response: The drainage system has been designed, and the pond recovery is able to be accomplished without the use of percolation. The percolation link has been removed from the updated ICPR model.](#)

**Item #7:**

Stormwater Management Construction Plans

1. The bleeder must be set at least one inch above the bottom of dry detention areas.

Applicant Response: Refer to revised sheet C2.1.

2. It is unclear where the minimum perimeter berm (25-year, 72-hour stage) elevation has been met. (SFWMDC ERP manual Volume IV & 4.386.G)

Applicant Response: The 25-yr 72-hr storm event is being held entirely in the detention pond and is also not flooding the site at that elevation.

3. Demonstrate that there is adequate access to the control structure taking the proposed landscaping into consideration.

Applicant Response: Maintenance access for the on-site control structure can be provided from the NW corner near the canal and through a path over the outfall pipe which will not have any obstructing landscaping.

4. Provide baffle for control structure.

Applicant Response: Refer to revised sheet C2.1.

5. Provide construction details for the proposed skimmer on the control structure.

Applicant Response: Refer to revised sheet C2.1.

6. The top of the Control structure is lower than the 25 year, 3 day storm event. Raise the top of the control structure to meet the 25 year, 3 day storm event or include the control structure as a weir in the ICPR flood routings.

Applicant Response: The top of the control structure has been revised to 17.85 while the 25-yr 72-hr storm event is has been revised to 17.82. Refer to revised sheet C2.1.

7. Provide Winged Concrete Endwalls per FDOT Standard Index 266 for the outfall culverts in the ditch. Demonstrate that the proposed location of the Winged Concrete Endwalls does not reduce the width of the existing ditch bottom. Provide existing elevations and/or contours for the ditch. The current alignment of the proposed mitered end section is against the flows within the ditch. Realign the pipe that is between the control structure and the ditch to provide a parallel alignment of the winged concrete endwall in the ditch. A structure between the dry detention and ditch may be necessary to achieve this alignment. Mitigate the potential for erosion on the banks of the ditch by armoring the ditch bank and bottom with bank and shore rip rap (1'-3' diameter). Provide a detail.

Applicant Response: Winged Endwall has been added and called out as structure D-9. Also, existing pond elevations have been called out. Rip rap has also been added.

8. A portion (but not all) of the drainage details are provided on the Grading and Paving Plan. Provide the remainder of the details for consistency.

Applicant Response: Additional drainage details have been added to the civil plans set.

9. Demonstrate how stormwater runoff is being collected from the rear of the buildings. It is unclear how the depression areas and yard drains will collect all of the stormwater runoff, as the proposed grades still show a continuous slope from the proposed building to SE Pine Avenue in some areas. The proposed wall cannot be utilized to direct stormwater runoff.

Applicant Response: Refer to revised sheet C3.0 for grading slopes and arrows

10. Cross Section B/B is inconsistent with the proposed elevations shown on the plan view. Revise section to provide a smoother transition onto the site.

Applicant Response: The transition included a valley gutter and sheets C1.0 and C5.0 have been revised accordingly.

11. The proposed contour line elevations along SE Pine Avenue are inconsistent between plan sheet C3.0 to C3.1.

Applicant Response: Refer to revised sheets C3.0 and C3.1 for contour labels.

12. Sheet C3.1 in the Construction Plans does not show the proposed HDPE from the dry retention area to the ditch.

Applicant Response: Refer to revised sheet C2.1 and C3.1.

13. Label 6-foot masonry wall on all plans.

Applicant Response: Label has been added.

14. Show the upland buffer on all plans and demonstrate that construction is not proposed within 5 feet of the upland buffer. Staff was unable to locate the upland buffer on the plan sets.

Applicant Response: The limits of disturbance is shown on sheet ES1.1. It is located more than 5 feet from the preserve area.

15. As previously stated, stabilization (seed or sod) of the disturbed areas must be completed within 30 days of vegetation removal. Provide method of stabilization. The note was not found on Sheet D1.0

Applicant Response: Refer to revised sheet DM1.0 note 19 for method of stabilization. Also refer to sheet ES1.0 note M.

16. Update the Martin County Standard details for consistency with the latest revisions. Provide detail name and number on each Martin County Standard Detail on Sheet D2.0 of the Construction Plans.

Applicant Response: The Martin County Standard details have been verified to be the latest versions. Refer to revised sheets D2.0 and D3.0.

#### **Additional Information:**

##### **Information #1:**

Staff is still evaluating whether the dedication of an easement for the maintenance of the ditch will be required. Provide a section through the maintenance easement demonstrating how this area will be graded to provide access.

Applicant Response: The maintenance easement has been provided as discussed with the County.

***N. Determination of compliance with addressing and electronic file submittal requirements – Growth Management and Information Technology Departments***

## **Addressing**

### **Findings of Compliance:**

The application has been reviewed for compliance with Division 17, Addressing, of the Martin County Land Development Regulations. Staff finds that the proposed site plan / plat complies with applicable addressing regulations. All street names are in compliance. They meet all street naming regulations in Article 4, Division 17, Land Development Regulations. Martin County, Fla. (2018).

[Applicant Response: Acknowledged.](#)

## **Electronic File Submittal**

### **Unresolved Issues:**

#### **Item #1:**

No new AutoCAD final site plan dwg file was received with your resubmittal.

[Applicant Response: An AutoCAD final site plan dwg file is provided with this response to comments.](#)

## ***O. Determination of compliance with utilities requirements - Utilities Department***

### **Water and Wastewater Service**

#### **Unresolved Issues:**

##### **Item #1:**

Drawings Must Be Approved

The construction drawings must be approved by the Utilities and Solid Waste Department prior to sign off by the Department of permit applications and agreements. [ref. Code, LDR, s.10.2.B.5. Code, LDR, Art.10]

[Applicant Response: Acknowledged.](#)

##### **Item #2:**

Must Submit Agreement

The applicant must submit an executable, final draft water and wastewater service agreement to the Growth Management Department for review by the Legal and Environmental Services departments prior to approval of the final site plan. The 'Water and Wastewater Service Agreement' must be executed and the applicable fees paid within sixty 60 days of final Martin County approval of the request.

[Applicant Response: A final executable draft of the water and wastewater service agreement has been included with this submittal.](#)

## **Wellfield and Groundwater Protection**

### **Findings of Compliance:**

The application has been reviewed for compliance under the Wellfield Protection Program. The reviewer finds the application in compliance with the Wellfield Protection and Groundwater Protection Ordinances. [Martin County, Fla., LDR, Division 5]

[Applicant Response: Acknowledged.](#)

## ***P. Determination of compliance with fire prevention and emergency management requirements – Fire Rescue Department***

### **Fire Prevention**

#### **Unresolved Issues:**

##### **Item #1:**

WATER SUPPLY

NEEDED FIRE FLOW REQUIREMENT FOR BUILDINGS

Identify the Needed Fire Flow Requirements for all buildings / structures. Fire flow calculations shall be prepared by a professional engineer currently licensed in the state of Florida for each newly constructed building. Per Florida Administrative Code section 61G15-32.004 Fire Protection Engineering documents shall include the point of service for the water supply, a list of NFPA standards applicable to the project, classification of hazard and occupancy for each room or area, suppression system type, design densities, water supply data (fire pump, hydrant flow test data) and any performance based information such as pre-engineered systems.

The Needed Fire Flow Requirement must be in accordance with Florida Fire Prevention Code, N.F.P.A. 1, Chapter 18.4.5 (latest adopted edition). The Guide for Determination of Needed Fire Flow, latest edition, as published by the Insurance Service Office (ISO). All calculations must be demonstrated and provided.

*Applicant Response: The fire flow calculations are provided with this submittal, NO sprinklers are proposed.*

#### **APPROVED WATER SUPPLY – HYDRANT FLOW TEST**

A hydrant flow test will be required to determine the available water supply to meet the needed fire flow for this project. Contact the Fire Prevention office at (772)288-5633 to schedule the flow test.

*Applicant Response: A hydrant flow test on the two available fire hydrants has been conducted and submitted. A copy of this hydrant flow test has been included again with this submittal.*

#### **Emergency Management**

The applicant has indicated that the project is for a non-residential use pursuant to Section 10.1.F., LDR, Martin County, Fla. (2016). Therefore, this project is not anticipated to impact Martin County Emergency Management resources and Emergency Management was not required to review this application.

*Applicant Response: Acknowledged.*

#### ***Q. Determination of compliance with Americans with Disability Act (ADA) requirements - General Services Department***

##### **Findings of Compliance:**

The General Services Department staff has reviewed the application and finds it in compliance with the applicable Americans with Disability Act requirements.

*Applicant Response: Acknowledged.*

#### ***R. Determination of compliance with Martin County Health Department and Martin County School Board***

##### **Martin County Health Department**

The applicant has indicated that the proposed final site plan contains no onsite potable wells or septic disposal systems. Therefore, the Department of Health was not required to review this application for consistency with the Martin County Code requirements within the Land Development Regulations or Comprehensive Growth Management Plan. MARTIN COUNTY, FLA., LDR SECTION 10.1.F. (2016)

*Applicant Response: Acknowledged.*

##### **Martin County School Board**

The applicant has indicated that the proposed final site plan is for a non-residential use. Therefore, the Martin County School Board was not required to review this application for consistency with the Martin County Code requirements for school concurrency purposes. MARTIN COUNTY, FLA., LDR SECTION 10.1.F. (2016)

*Applicant Response: Acknowledged.*

***S. Determination of compliance with legal requirements - County Attorney's Office***

**Review Ongoing**

Applicant Response: Acknowledged.

***T. Determination of compliance with the adequate public facilities requirements - responsible departments***

The following is a summary of the review for compliance with the standards contained in Article 5.7.D of the Adequate Public Facilities LDR for a Certificate of Adequate Public Facilities Reservation.

Potable water facilities service provider – Martin County Utilities

Source - Environmental Services Department

Findings - Pending

Reference - see Section O of this staff report

Sanitary sewer facilities service provider – Martin County Utilities

Source - Environmental Services Department

Findings - Pending

Reference - see Section O of this staff report

Solid waste facilities

Findings – In Place

Source - Growth Management Department

Stormwater management facilities

Findings - Pending

Source - Engineering Department

Reference - see Section N of this staff report

Community park facilities

Findings – N/A

Source - Growth Management Department

Roads facilities

Findings - Comply

Source - Engineering Department

Reference - see Section M of this staff report

Mass transit facilities

Findings – In Place

Source - Engineering Department

Reference - see Section L of this staff report

Public safety facilities

Findings – N/A

Source - Growth Management Department

Reference - see Section P of this staff report

A timetable for completion consistent with the valid duration of the development is to be included in the Certificate of Public Facilities Reservation. The development encompassed by Reservation Certificate must be completed within the timetable specified for the type of development.

Applicant Response: Acknowledged.

***U. Post-approval requirements***

Approval of the development order is conditioned upon the applicant's submittal of all required documents, executed where appropriate, to the Growth Management Department (GMD), including unpaid fees, within sixty (60) days of the final action granting approval.

**Item #1:**

Post Approval Requirements List: After approval the applicant will receive a letter and a Post Approval Requirements List that identifies the documents and fees required. The applicant will return the Post Approval Requirements List along with the required documents in a packet with the documents arranged in the order shown on the list.

**Item #2:**

Post Approval Fees: The applicant is required to pay all remaining fees when submitting the post approval packet. If an extension is granted, the fees must be paid within 60 days from the date of the development order. Checks should be made payable to Martin County Board of County Commissioners.

**Item #3:**

Post Approval Impact Fees: Impact fees must be paid after the development order has been approved. Submit a check made payable to Martin County Board of County Commissioners within 60 days of project approval.

**Item #4:**

Recording Costs: The applicant is responsible for all recording costs. The Growth Management Department will calculate the recording costs and contact the applicant with the payment amount required. Checks should be made payable to the Martin County Clerk of Court.

**Item #5:**

One (1) copy of the recorded warranty deed if a property title transfer has occurred since the site plan approval. If there has not been a property title transfer since the approval, provide a letter stating that no title transfer has occurred.

**Item #6:**

Original and one (1) copy of the current Unity of Title in standard County format if a property title transfer has occurred since the site plan approval. If there has not been a property title transfer since the approval, provide a letter stating so that no transfer has occurred.

**Item #7:**

Ten (10) 24" x 36" copies of the approved construction plans signed and sealed by the Engineer of Record licensed in the State of Florida. Fold to 8 by 12 inches.

**Item #8:**

Ten (10) copies 24" x 36" of the approved site plan and one (1) reduced copy 8 1/2" x 11".

**Item #9:**

Original approved site plan on Mylar or other plastic, stable material.

**Item #10:**

Ten (10) 24" x 36" copies of the approved landscape plan signed and sealed by a landscape architect licensed in the State of Florida.

**Item #11:**

One (1) digital copy of site plan in AutoCAD 2010 - 2014 drawing format (.dwg). The digital version of the site plan must match the hardcopy version as submitted.

**Item #12:** Original of the construction schedule.

**Item #13:**

Original of the Engineer's Design Certification, on the County format which is available on the Martin County website, signed and sealed by the Engineer of Record licensed in the State of Florida.

**Item #14:**

Original and one (1) copy or two (2) copies of the executed and signed Water and Wastewater Service Agreement with Martin County Regional Utilities and one (1) copy of the payment receipt for Capital Facility Charge (CFC) and engineering and recording fees.

[Applicant Response: Acknowledged.](#)

***V. Local, State, and Federal Permits***

Approval of the development order is conditioned upon the applicant's submittal of all required applicable Local, State, and Federal Permits, to the Growth Management Department (GMD), prior to approval (Option 1).

**Item #1:**

Environmental

The following must be submitted prior to scheduling the pre-construction meeting or during the post approval process:

1. Florida Fish and Wildlife Conservation Commission (FWC) listed species (gopher tortoise) survey or relocation permit.

*Applicant Response: Acknowledged. We request to have option 2 and submit all other agency permits after site plan approval.*

**Item #2:**

Public Works

The following permits must be submitted prior to scheduling the Pre-Construction meeting:

1. FDOT Driveway / Connection Permit
2. Martin County Right of Way Use Permit
3. South Florida Water Management District (SFWMD) Environmental Resource Permit (ERP)
4. Florida Department of Transportation (FDOT) Drainage Connection Permit
5. Florida Department of Environmental Protection (FDEP) NPDES Generic Permit for Stormwater Discharge for Large and Small Construction Activities

*Applicant Response: Acknowledged.*

**Item #3:**

Wellfield and Groundwater Protection

The applicant must provide a copy of all required South Florida Water Management permits prior to scheduling the Pre-Construction meeting.

*Applicant Response: Acknowledged.*

**X. General application information**

Applicant: Circle K Stores, Inc.  
Ryan Plate  
12911 N Telecom Pkwy Tampa, FL 33629

Agent: Cotleur & Hearing Daniel T. Sorrow  
1934 Commerce Lane, Suite 1  
Jupiter, FL 33458  
561-747-6336

I trust that the answers to the comments included in this resubmittal are complete and will allow this project to be approved at the earliest possible date. Please contact this office with any questions you may have in your review of this information.

Sincerely yours,



Daniel T. Sorrow, AICP, PLA, LEED AP BD+C  
Cotleur & Hearing  
1934 Commerce Lane, Suite 1  
Jupiter, FL 33458

## Water & Wastewater Service Agreement Information Form

Please complete the requested information below and return to the Martin County Utilities and Solid Waste Department. This information will be inserted into the standard "Water & Wastewater Service Agreement". The draft agreement will then be returned for your review. Note: Upon final Martin County approval of the project the owner/developer must execute the agreement and submit all applicable fees within 60 days of said approval.

Date: \_\_\_\_\_

Project Name:

\_\_\_\_\_

# Of Water ERCs Proposed: \_\_\_\_\_

# Of Previously Purchased or Assessed Water ERC's (If Known): \_\_\_\_\_

# Of Irrigation Water ERCs Proposed: \_\_\_\_\_

# Of Wastewater ERCs Proposed: \_\_\_\_\_

# Of Previously Purchased or Assessed Wastewater ERC's (If Known): \_\_\_\_\_

Justification of ERC calculations (i.e. flow calculations): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Indicate whether "DEVELOPER" as referred to in the agreement is either a(n) (please check one):

\_\_\_\_\_ Corporation - Please Provide Federal Tax ID # \_\_\_\_\_

\_\_\_\_\_ Individual(s) - Please Provide Driver's License # \_\_\_\_\_

\_\_\_\_\_ Partnership - Please Provide Federal Tax ID # \_\_\_\_\_

Name/Title, Address, and Telephone No. of Individual(s)/Corporation/Partnership executing agreement (**MUST BE THE CURRENT PROPERTY OWNER**):

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

email address: \_\_\_\_\_

Name/Title of person(s) executing on behalf of Corporation/Partnership:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

email address: \_\_\_\_\_

Engineer/Agent Name, Address & Telephone No.:

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email address: \_\_\_\_\_

Name, Address & Telephone No. of Individual/Organization to receive notices, updated correspondence, etc. if different from the developer:

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email address: \_\_\_\_\_

**If "DEVELOPER" is a Corporation or Partnership, an original or certified copy of the appropriate corporate resolution or proof of the general partner's authority is required.**

**Attach a copy of the Legal Description and the Warranty Deed of the property to be serviced.**

If you have any questions please contact Leo Repetti, P.E at (772) 320-3065.

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## STORMWATER MANAGEMENT SYSTEM OPERATION & MAINTENANCE PLAN

### Circle K - Martin County, Florida

The Circle K Convenience Store/Gas Station stormwater management system conveys stormwater to a dry retention area used to treat the first flush of runoff via catch basins and storm pipe and then outfalls to the Martin County maintained canal at the north end of the site. Proper maintenance is essential to the performance and treatment capacity of the system. A recommended maintenance schedule is outlined below, however additional inspections or maintenance may be required after significant rainfall events totaling more than 3 inches of rain in a 24 hour period.

#### Monthly Maintenance

1. Mechanically sweep surface parking and roadways.
2. Remove trash and debris from dry retention area.
3. Mow dry retention area as needed to prevent vegetative overgrowth. Exotic and nuisance vegetation should be removed to prevent overgrowth of required approved plantings.

#### Every 3 Months

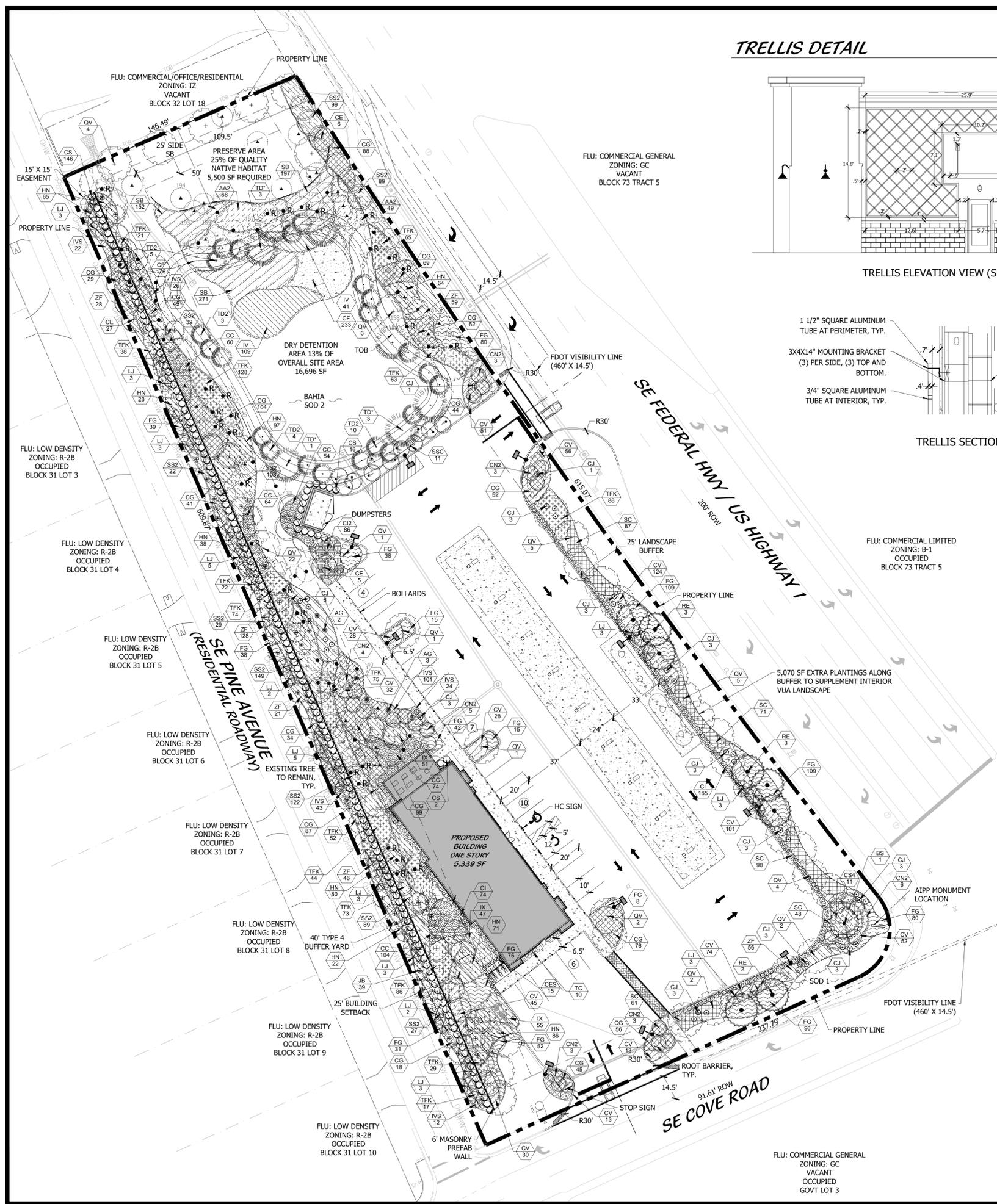
1. Perform Monthly Maintenance as described above.
2. Inspect inlets, manholes, and piped outfalls. Remove any trash, debris, or obstructions.

#### Annual Maintenance

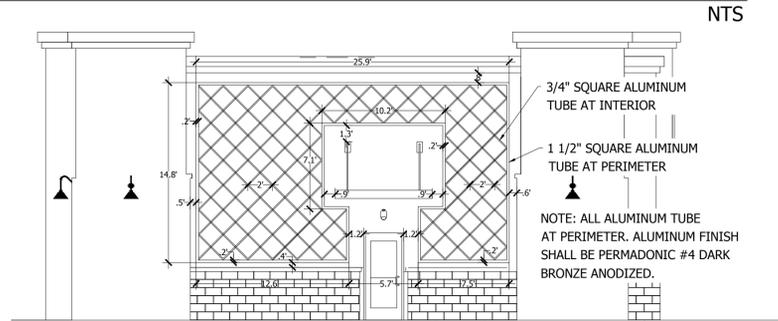
1. Perform Monthly and 3-Month Maintenance as described above.
2. Remove accumulated sediment and debris from catch basin and manholes. Overflow weirs and control structure should be free of debris and ready for service. Sedimentation and oil/grit separators should be scheduled for cleaning when sediment depth approaches cleanout level. Cleanout levels should be established not less than 1 foot below the invert elevation of the chamber.



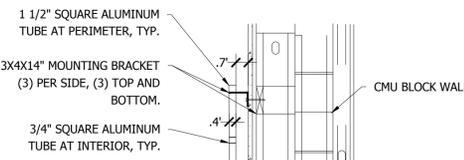
ANDREW J. PETERSEN, P.E.  
June 20, 2018



**TRELLIS DETAIL**

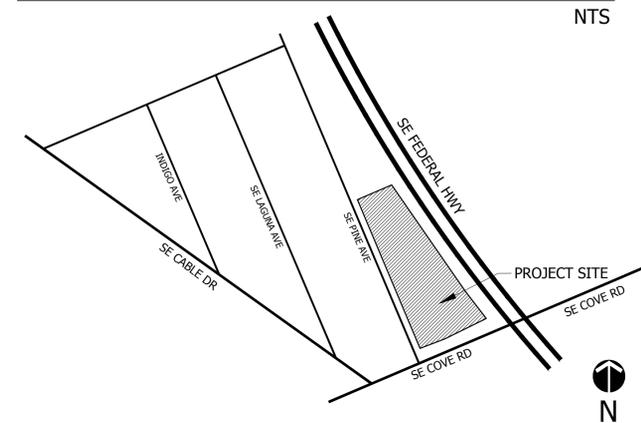


TRELLIS ELEVATION VIEW (SE COVE ROAD)



TRELLIS SECTION VIEW

**LOCATION MAP**



**LANDSCAPE DATA**

TOTAL SITE AREA		124,791 SF (2.86 ACRES)	
<b>VEHICULAR USE LANDSCAPE AREA REQ.</b>	<b>REQUIRED</b>	<b>PROVIDED</b>	
INTERIOR VUA	5,000 SF	6,798	
ONE 500 SF OF PLANTING AREA REQUIRED FOR EVERY 5,000 SF OF VUA (VUA AREA= 45,840 SF / 5,000 = 10)			
INTERIOR VUA AREA		1,728 SF	
PERIMETER VUA AREA		5,070 SF	
*PERIMETER AREA OF VUA USED TO SUPPLEMENT THE INTERIOR PLANTING AREA REQUIREMENT			
ONE TREE PER EVERY LANDSCAPE ISLAND	5 TREES	6 TREES	
<b>REQUIRED LANDSCAPE AREA</b>	20%	43.42%	
<b>PERIMETER VUA</b>			
25 FT WIDE LANDSCAPE STRIP ALONG US 1	14,250 SF	14,250 SF	
ONE TREE PER 30 LF	21	21	
(615.07 LF / 30 LF = 21 TREES)			
TYPE 4 40 FT WIDE LANDSCAPE STRIP ALONG PINE AVE	24,395 SF	24,500 SF	AVERAGE
ONE TREE PER 300 SF	81	156	
(24,394.8 SF / 300 SF = 81 TREES)			
(30 EXISTING TREES)			
(126 PROPOSED TREES)			
34 SHRUBS PER 300 SF	2,765	3,407	
(24,394.8 SF / 300 SF X 34 = 2,765 SHRUBS)			
25 FT WIDE LANDSCAPE STRIP ALONG COVE RD	5,578 SF	5,578 SF	
ONE TREE PER 30 LF	8	8	
(237.79 LF / 30 LF = 8 TREES)			
25 FT WIDE LANDSCAPE STRIP ALONG NORTH END	3,642 SF	3,642 SF	
ONE TREE PER 30 LF	5	5	
(146.49 LF / 30 LF = 5 TREES)			
<b>TOTAL</b>	<b>115</b>	<b>121</b>	
MINIMUM OF 25% OF TOTAL PERIMETER LANDSCAPE MUST BE NATIVE PLANTINGS	29 TREES	114 TREES	
MINIMUM OF 75% OF TOTAL PERIMETER LANDSCAPE MUST BE SHADE TREES	87 TREES	107 TREES	
<b>GENERAL REQUIREMENTS</b>	<b>REQUIRED</b>	<b>PROVIDED</b>	
1 TREE PER 2,500 SQUARE FEET OF TOTAL SITE AREA	50 TREES	50 TREES	
(124,791 / 2,500 = 50 TREES AT 16' TALL (OR 2 (TWO) 12' TALL PALMS PER 1 TREE))			
MINIMUM 75% CANOPY TREES	38 TREES	38 TREES	
MINIMUM 75% NATIVE TREES	38 TREES	57 TREES	
<b>PRESERVE AREA</b>	<b>REQUIRED</b>	<b>PROVIDED</b>	
25% OF QUALITY NATIVE HABITAT ON SITE	5,500	5,500	
<b>EXISTING TREES</b>			
1 EXISTING OAK (3) OR PINE (35) = 39 TREES, 3 EXISTING SABALS (21) = 7 TREES			
<b>TOTAL: 45 EX. TREES TO BE INCLUDED IN MEETING THE LANDSCAPE CODE REQUIREMENTS</b>			

**PLANT LEGEND**

- CATHEDRAL OAK
- PALM TO REMAIN
- ROYAL PALM
- PINES TO REMAIN
- BISMARK PALM
- OAKS TO REMAIN
- GREEN BUTTONWOOD
- RELOCATED PALMS
- BRODIE COLUMNAR CEDAR
- COCONUT PALM
- THATCH PALM
- LIGUSTRUM

**PROJECT TEAM**

**OWNER/CLIENT:**  
CIRCLE K  
12911 TELECOM PKWY N  
TEMPLE TERRACE, FL 33637  
813.910.6800  
CONTACT: EDWARD GIUNTA

**ENGINEER/ SURVEYOR:**  
BOWMAN CONSULTING GROUP  
4450 W. EAU GALLEE BLVD  
SUITE 232  
MELBOURNE, FL 32934  
321.255.5434  
CONTACT: NIM ROBINSON

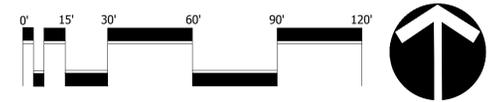
**LANDSCAPE ARCHITECT/PLANNER:**  
COTLEUR & HEARING, INC.  
1934 COMMERCE LANE, SUITE 1  
JUPITER, FL 33458  
561.747.6336  
CONTACT: DANIEL SORROW

**ARCHITECT:**  
MDM SERVICES INC.  
1055 KATHLEEN RD  
LAKELAND, FL 33805  
836.646.9130  
CONTACT: PAUL DOSS

**ENVIRONMENTAL CONSULTANT:**  
EW CONSULTANTS  
2081 SE OCEAN BLVD  
STUART, FL 34996  
772.287.8771  
CONTACT: ARNAUD ROUX

**TRAFFIC:**  
SUSAN O'ROURKE PE INC.  
969 SE FEDERAL HWY SUITE 402  
STUART, FL 34994  
772.781.7918  
CONTACT: SUSAN O'ROURKE

**LANDSCAPE PLAN**



**Cotleur & Hearing**

Landscape Architects  
Land Planners  
Environmental Consultants  
1934 Commerce Lane  
Suite 1  
Jupiter, Florida 33458  
561.747.6336 · Fax 747.1377  
www.cotleurhearing.com  
Lic# LC-C000239

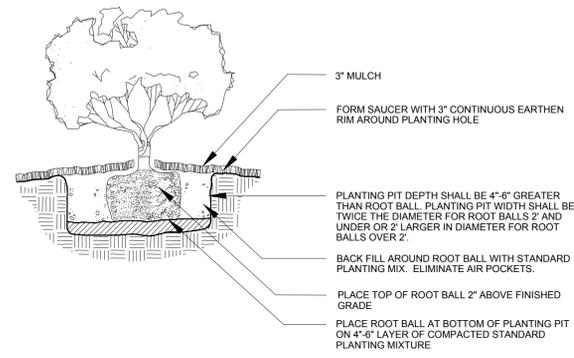
**CIRCLE K #1885**

Martin County, Florida



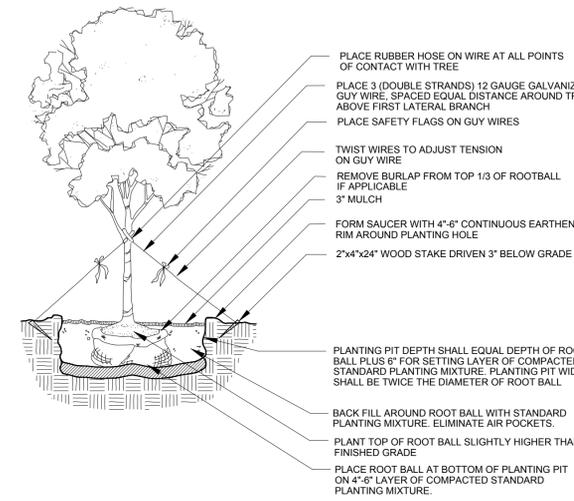
DESIGNED	LH
DRAWN	LH
APPROVED	DTS
JOB NUMBER	16-0804
DATE	09-15-17
REVISIONS	02-07-18
	06-20-18

## PLANTING DETAILS



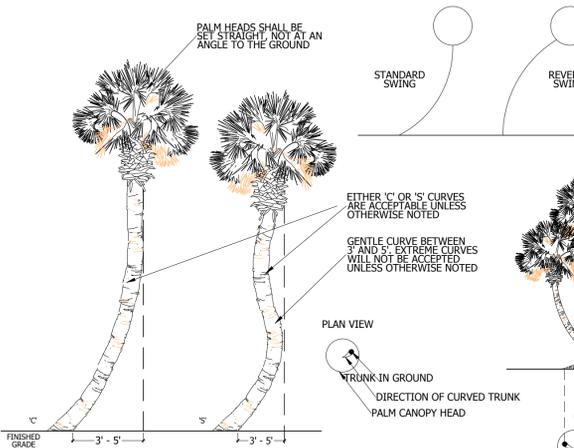
## SHRUB/GROUNDCOVER PLANTING DETAIL

NTS



## LARGE TREE PLANTING DETAIL

NTS



## SABAL PALM CURVED TRUNK PLANTING DETAIL FOR RELOCATED

NTS

## LANDSCAPE NOTES

ALL LANDSCAPING AND SITE IMPROVEMENTS UNDERTAKEN SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF MARTIN COUNTY'S DIVISION 15 LANDSCAPING, BUFFERING AND TREE PROTECTION CODE AND ANY OTHER APPLICABLE COUNTY REGULATIONS.

THE LANDSCAPE CONTRACTOR SHALL NOT MAKE ANY SUBSTITUTIONS OR CHANGES WITHOUT THE AUTHORIZATION OF THE OWNER AND THE LANDSCAPE ARCHITECT.

THE LANDSCAPE CONTRACTOR SHALL REVIEW THE PROJECT DRAINAGE PLANS AND VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION AND AVOID ALL CONFLICTS.

THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS RELATING TO HIS/HER WORK.

ALL LANDSCAPE PLANTED IN THE RIGHT-OF-WAY AND ON PRIVATE PROPERTY SHALL BE LOCATED SO THAT NO CONFLICT OCCURS WITH VEHICULAR SIGHT DISTANCES AT INTERSECTIONS AND AT DESIGNATED PEDESTRIAN CROSSWALKS.

ALL LANDSCAPING SHALL BE LOCATED IN THE RIGHT-OF-WAY AND ON PRIVATE PROPERTY SO THAT NO CONFLICT OCCURS WITH DESIGNATED COUNTY DRAINAGE AND / OR UTILITY EASEMENTS, OVERHEAD AND UNDERGROUND UTILITY LINES AND OR UTILITY STRUCTURES. NO TREE ARE ALLOWED IN UTILITY EASEMENTS OR CLOSER THAN TEN FEET TO ANY CITY UTILITY LINES.

TREES AT ENTRANCEWAYS SHALL BE LIMBED UP TO MAXIMIZE SITE DISTANCE. CLEAR VISIBILITY SHALL BE MAINTAINED BETWEEN 24" AND 6". TREES SHALL BE POSITIONED TO AVOID CONFLICTS WITH SITE LIGHTING.

PLANTING ISLANDS WITHIN AND ADJACENT TO PARKING AREAS SHALL BE FREE OF LIME ROCK AND OTHER FOREIGN MATERIALS TO A DEPTH OF 30". IF NECESSARY, RECYCLED PLANTING SOIL MIXTURE SHOULD BE USED TO REPLACE UNSUITABLE SOIL, WHICH IS EXCAVATED.

THE SURFACE OF ALL AREAS TO RECEIVE LANDSCAPING WILL BE FINELY GRADED AND SET SO DIPS AND DEPRESSIONS ARE REMOVED AND POSITIVE DRAINAGE IS ACHIEVED. THE FINISHED GRADE OF SOD AND MULCH AREAS SHALL BE SET SO THAT MULCH WASHOUTS DO NOT OCCUR AND THERE IS A SMOOTH TRANSITION FROM PAVED SURFACES TO ADJACENT LAWN AREAS.

ALL TREES, SHRUBS AND GROUNDCOVER BEDS ARE REQUIRED TO BE MULCHED WITH A 3" MIN. THICK LAYER OF MULCH. TREES LOCATED IN TURF AREAS ARE REQUIRED TO HAVE A 3" THICK MULCHED WATERING RING PROVIDED AROUND THE TRUNK. THE TREE RING IS REQUIRED TO BE A MINIMUM DIAMETER OF 3' AROUND SMALL TREES AND 5' AROUND LARGE TREES, TO FACILITATE MOWING. MULCH SHALL BE KEPT THREE FEET AWAY FROM THE TRUNK.

ALL TREE STAKING MATERIALS SHALL BE LOCATED WITHIN MULCH BEDS AND OR RINGS.

ALL AREAS SHALL BE FULLY IRRIGATED IN ACCORDANCE WITH THE REQUIREMENTS OF MARTIN COUNTY. IRRIGATION SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER AND LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION. THE IRRIGATION SYSTEM SHALL BE DESIGNED TO PROVIDE 100% OVERLAP COVERAGE TO ALL LANDSCAPE AND SOD AREAS.

THE IRRIGATION WATER SOURCE SHALL BE A WELL. THE IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN SENSOR/CUT OFF SWITCH IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.

ALL ABOVE GROUND UTILITIES I.E. TRANSFORMERS, SWITCH BOXES, AIR CONDITIONER CONDENSERS, SHALL BE FULLY SCREENED FROM VIEW ON THREE SIDES WITH LANDSCAPING WHICH MUST EXTEND ONE FOOT HIGHER THAN THE TALLEST POINT OF SAID EQUIPMENT AT TIME OF PLANTING.

NO LANDSCAPING SHALL BE LOCATED WITHIN 10' OF A COUNTY LINE OR APPURTENANCE. ALL OTHER UTILITIES SHALL BE A MINIMUM OF 5' HORIZONTAL SEPARATION FROM COUNTY UTILITY MAINS FOR PARALLEL INSTALLATIONS AND A MINIMUM OF 18" BELOW COUNTY UTILITY MAINS. (ALL MEASUREMENTS ARE TAKEN FROM OUTSIDE TO OUTSIDE)

NO LANDSCAPING SHALL BE PLACED IN A MANNER THAT WOULD CREATE CONFLICTS WITH THE INTENDED OPERATION AND MAINTENANCE OF ANY EXISTING UTILITY.

ST. AUGUSTINE SOD WILL BE UTILIZED FOR ALL TURF AREAS, EXCEPT AS NOTED. BAHIA SOD WILL BE UTILIZED IN DRY RETENTION AREAS AND IN AREAS OF EXISTING TREES TO REMAIN.

TREES OF SPECIES WHOSE ROOTS ARE KNOWN TO CAUSE DAMAGE TO PUBLIC ROADWAYS, UTILITIES, OR OTHER PUBLIC WORKS SHALL NOT BE PLANTED TO THOSE PUBLIC WORKS, UNLESS THE TREE ROOT SYSTEM IS COMPLETELY CONTAINED WITHIN A BARRIER FOR WHICH THE MINIMUM DIMENSIONS SHALL BE FIVE (5) FEET SQUARE AND FIVE (5) FEET DEEP AND FOR WHICH THE CONSTRUCTION REQUIRED SHALL BE FOUR INCH THICK CONCRETE REINFORCED WITH NUMBER 6 WELDED WIRE FABRIC (6 X 6 X 5) OR EQUIVALENT. PALM TREES SHALL BE LOCATED NO CLOSER THAN TWO (2) FEET TO AN UNDERGROUND PUBLIC UTILITY PIPE, ROADWAY, OR OTHER PUBLIC WORKS. REPAIR OF DAMAGE TO A PUBLIC UTILITY OR OTHER PUBLIC WORKS CAUSED BY TREES, OTHER THAN PALM TREES, LOCATED CLOSER THAN TEN (10) FEET SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE SUBJECT PROPERTY.

ALL PROHIBITED SPECIES SHALL BE REMOVED FROM THE ENTIRE SITE PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

THE USE OF CYPRESS MULCH IS PROHIBITED IN ALL LANDSCAPE AREAS.

NO USE SHALL BE MADE OF, AND NO DEVELOPMENT ACTIVITY SHALL BE PERMITTED IN, LAND USE BUFFERS AND PERIMETER LANDSCAPE AREAS, EXCEPT FOR:

I. PLANTING MATERIAL APPROVED AS PART OF THE LANDSCAPE PLAN.

II. COMPLETELY UNDERGROUND UTILITIES AND ARGENTINE APPROVED, OVERHEAD OR ABOVEGROUND UTILITIES WHICH CROSS THESE AREAS AND DO NOT INTERFERE WITH THE MATURE GROWTH OF REQUIRED PLANT MATERIAL.

III. GRASS DITCHES, WITH BLACK SLOPES NO STEEPER THAN 3V: 1H, WHICH CAN SUPPORT THE REQUIRED LANDSCAPING MATERIAL.

PRUNE & TIE FRONDS TOGETHER WITH DEGRADABLE TWINE (MINIMUM 6-8 FRONDS)

5 - 2"x4"x18" WOOD BATTENS, DO NOT NAIL BATTENS TO PALM. HEIGHT OF BATTENS SHALL BE LOCATED IN RELATION TO THE HEIGHT OF THE PALM FOR ADEQUATE BRACING

2 STEEL BANDS

MINIMUM 3 - 2"x4" WOOD BRACES SHALL BE TOE NAILED TO WOOD BATTENS

3" MULCH

FORM SAUCER WITH 4"-6" CONTINUOUS EARTHEN RIM AROUND PLANTING HOLE

2"x4"x24" WOOD STAKE REMAINING 3" ABOVE GRADE

BACK FILL AROUND ROOT BALL WITH STANDARD PLANTING MIXTURE. ELIMINATE AIR POCKETS.

PLANT ROOT BALL OF SABAL PALMS 2"-3" BELOW FINISHED GRADE

SIZE OF ROOT BALL WILL BE IN PROPORTION TO SIZE AND TYPE OF PALM IN RELATION TO SOUND NURSERY PRACTICE

PLACE ROOT BALL AT BOTTOM OF PLANTING PIT

FINISHED GRADE

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FORM SAUCER WITH 4"-6" CONTINUOUS EARTHEN RIM AROUND PLANTING HOLE

2"x4"x24" WOOD STAKE REMAINING 3" ABOVE GRADE

BACK FILL AROUND ROOT BALL WITH STANDARD PLANTING MIXTURE. ELIMINATE AIR POCKETS.

PLANT ROOT BALL OF SABAL PALMS 2"-3" BELOW FINISHED GRADE

SIZE OF ROOT BALL WILL BE IN PROPORTION TO SIZE AND TYPE OF PALM IN RELATION TO SOUND NURSERY PRACTICE

PLACE ROOT BALL AT BOTTOM OF PLANTING PIT

FINISHED GRADE

PRUNE & TIE FRONDS TOGETHER WITH DEGRADABLE TWINE (MINIMUM 6-8 FRONDS)

5 - 2"x4"x18" WOOD BATTENS, DO NOT NAIL BATTENS TO PALM. HEIGHT OF BATTENS SHALL BE LOCATED IN RELATION TO THE HEIGHT OF THE PALM FOR ADEQUATE BRACING

2 STEEL BANDS

MINIMUM 3 - 2"x4" WOOD BRACES SHALL BE TOE NAILED TO WOOD BATTENS

3" MULCH

FORM SAUCER WITH 4"-6" CONTINUOUS EARTHEN RIM AROUND PLANTING HOLE

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PLANT ROOT BALL OF SABAL PALMS 2"-3" BELOW FINISHED GRADE

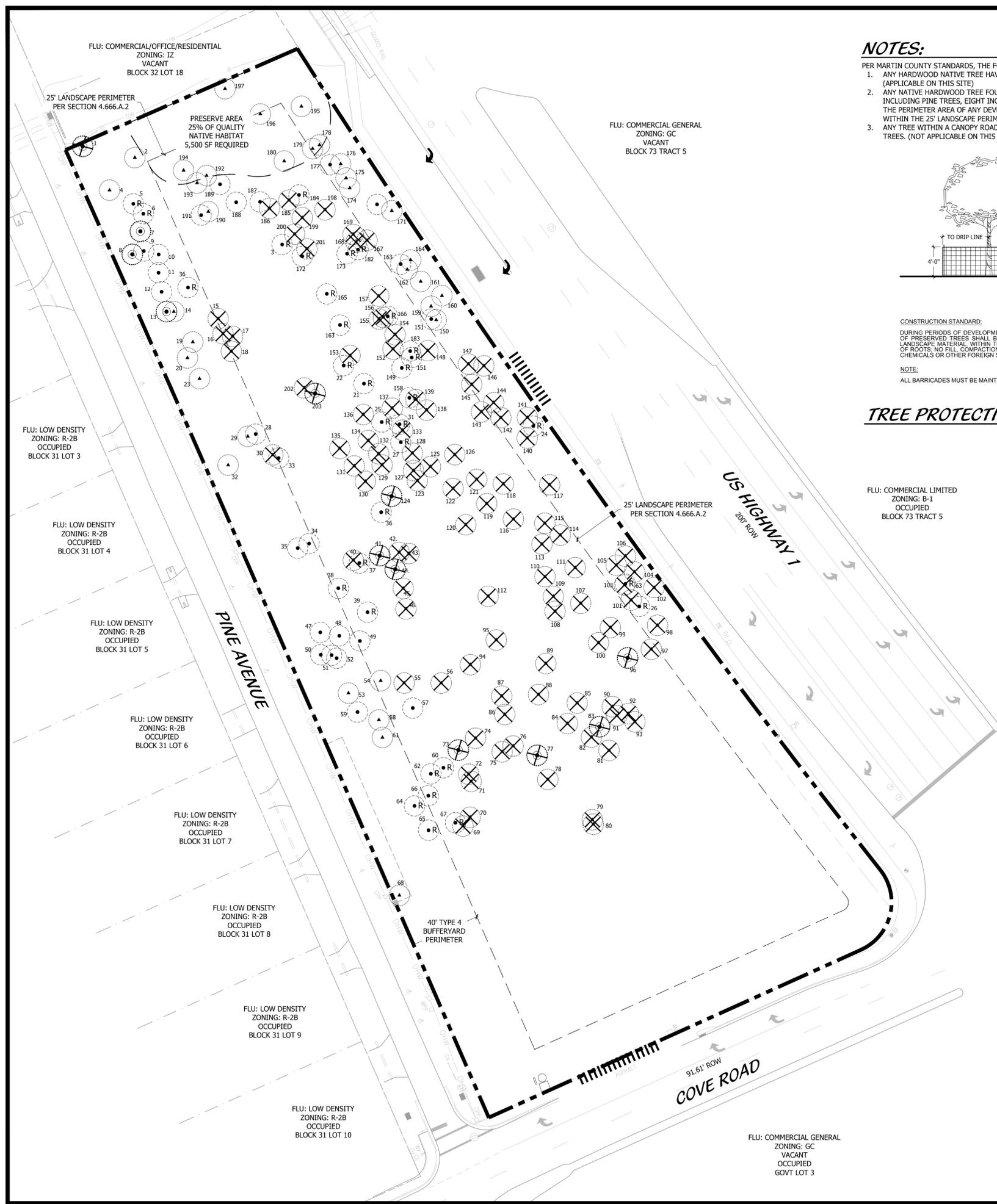
SIZE OF ROOT BALL WILL BE IN PROPORTION TO SIZE AND TYPE OF PALM IN RELATION TO SOUND NURSERY PRACTICE

PLACE ROOT BALL AT BOTTOM OF PLANTING PIT

FINISHED GRADE

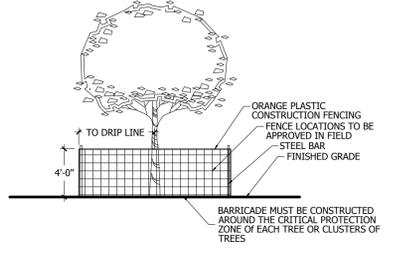
PRUNE & TIE FRONDS TOGETHER WITH DEGRADABLE TWINE (MINIMUM 6-8 FRONDS)

5 -



**NOTES:**

- PER MARTIN COUNTY STANDARDS, THE FOLLOWING NATIVE TREES ARE PROTECTED:
1. ANY HARDWOOD NATIVE TREE HAVING A DIAMETER OF EIGHT DBH OR GREATER. (APPLICABLE ON THIS SITE)
  2. ANY NATIVE HARDWOOD TREE FOUR INCH DBH OR ANY NATIVE SOFTWOOD, INCLUDING PINE TREES, EIGHT INCH DBH OR GREATER WHICH IS LOCATED IN THE PERIMETER AREA OF ANY DEVELOPMENT SITE. (APPLICABLE ON THIS SITE WITHIN THE 25' LANDSCAPE PERIMETER BUFFER AND 40' TYPE 4 BUFFER/YARD)
  3. ANY TREE WITHIN A CANOPY ROAD TREE PROTECTION ZONE, EXCEPT PROHIBITED TREES. (NOT APPLICABLE ON THIS SITE)

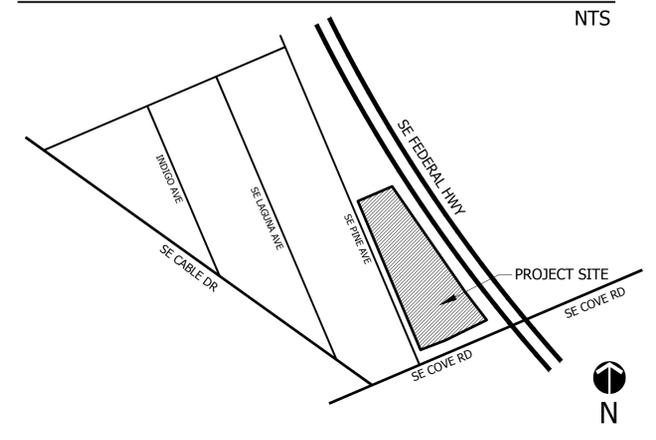


**CONSTRUCTION STANDARD:**  
 DURING PERIODS OF DEVELOPMENT AND CONSTRUCTION, THE AREAS WITHIN THE DRIP-LINE OF PRESERVED TREES SHALL BE MAINTAINED AT THEIR ORIGINAL GRADE WITH PERVIOUS LANDSCAPE MATERIAL WITHIN THESE AREAS. THERE SHALL BE NO TRENCHING OR CUTTING OF ROOTS; NO FILL, COMPACTION OR REMOVAL OF SOIL, AND NO USE OF CONCRETE, PAINT, CHEMICALS OR OTHER FOREIGN SUBSTANCES.

**NOTE:**  
 ALL BARRICADES MUST BE MAINTAINED INTACT FOR THE DURATION OF CONSTRUCTION.

**TREE PROTECTION DETAIL**

**LOCATION MAP**



**LEGEND**

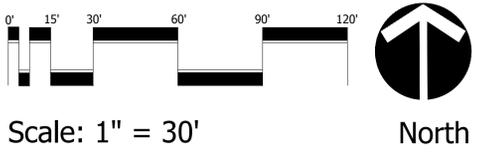
- EXISTING OAKS TO REMAIN
- EXISTING PINES TO REMAIN
- EXISTING CABBAGE PALMS TO REMAIN
- OAKS TO BE REMOVED
- PINES TO BE REMOVED
- CABBAGE PALMS TO BE RELOCATED

**NOTE:**  
 ALL SABAL PALMS TO BE RELOCATED, SEE LANDSCAPE PLANS FOR PROPOSED TRANSPLANT LOCATION.  
 TREES TO REMAIN WILL BE PROTECTED AND BARRICADED IN PLACE. REFER TO SHEET THREE FOR TREES TO BE REMOVED REQUIRING MITIGATION. NOT ALL TREES SHOWN ON THIS INVENTORY TO BE REMOVED REQUIRE MITIGATION.  
 ALL TREES ARE SHOWN FOR CONSTRUCTION AND PRESERVATION PURPOSES.

**PROJECT TEAM**

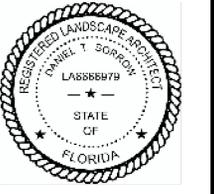
<b>OWNER/CLIENT:</b> CIRCLE K 12911 TELECOM PKWY N TEMPLE TERRACE, FL 33637 813.910.6800 CONTACT: ED GIUNTA	<b>ENGINEER/ SURVEYOR:</b> BOWMAN CONSULTING GROUP 4450 W. EAU GALIE BLVD SUITE 232 MELBOURNE, FL 32934 321.255.5434 CONTACT: NIM ROBINSON
<b>LANDSCAPE ARCHITECT/PLANNER:</b> COTLEUR & HEARING, INC. 1934 COMMERCE LANE, SUITE 1 JUPITER, FL 33458 561.747.6336 CONTACT: DANIEL SORROW	<b>ARCHITECT:</b> MDM SERVICES INC. 1055 KATHLEEN RD LAKELAND, FL 33805 836.646.9130 CONTACT: PAUL DOSS
<b>ENVIRONMENTAL CONSULTANT:</b> EW CONSULTANTS 2081 SE OCEAN BLVD STUART, FL 34996 772.287.8771 CONTACT: ARNAUD ROUX	<b>TRAFFIC:</b> SUSAN O'ROURKE PE INC. 969 SE FEDERAL HWY SUITE 402 STUART, FL 34994 772.781.7918 CONTACT: SUSAN O'ROURKE

**TREE MITIGATION PLAN**



**Cotleur & Hearing**  
 Landscape Architects  
 Land Planners  
 Environmental Consultants  
 1934 Commerce Lane  
 Suite 1  
 Jupiter, Florida 33458  
 561.747.6336 · Fax 747.1377  
 www.cotleurhearing.com  
 Lic# LC-C000239

**CIRCLE K #1885**  
 Martin County, Florida



DESIGNED	DTS
DRAWN	LH
APPROVED	DTS
JOB NUMBER	16-0804
DATE	09-15-17
REVISIONS	02-07-18
	06-20-18

# TREE INVENTORY

Tree #	Tree Species		DBH/Height	Proposed Disposition	Mitigate	Tree #	Tree Species		DBH/Height	Proposed Disposition	Mitigate
	Common Name	Botanical Name					Common Name	Botanical Name			
1	LIVE OAK	QUERCUS VIRGINIANA	8"	REMOVE	YES	104	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	YES
2	SLASH PINE	PINUS ELLIOTTII	12"	PRESERVE	NA	105	SLASH PINE	PINUS ELLIOTTII	9"	REMOVE	YES
3	SABAL PALM	SABAL PALMETTO	9"	RELOCATE ON SITE	NA	106	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	YES
4	SLASH PINE	PINUS ELLIOTTII	9"	PRESERVE	NA	107	SLASH PINE	PINUS ELLIOTTII	6"	REMOVE	NO
5	SABAL PALM	SABAL PALMETTO	10"	RELOCATE ON SITE	NA	108	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	NO, NOT IN PERIMETER
6	SABAL PALM	SABAL PALMETTO	15"	RELOCATE ON SITE	NA	109	SLASH PINE	PINUS ELLIOTTII	17"	REMOVE	NO, NOT IN PERIMETER
7	LIVE OAK	QUERCUS VIRGINIANA	11"	PRESERVE	NA	110	SLASH PINE	PINUS ELLIOTTII	13"	REMOVE	NO, NOT IN PERIMETER
8	LIVE OAK	QUERCUS VIRGINIANA	10"	PRESERVE	NA	111	SLASH PINE	PINUS ELLIOTTII	12"	REMOVE	NO, NOT IN PERIMETER
9	SABAL PALM	SABAL PALMETTO	9"	PRESERVE	NA	112	SLASH PINE	PINUS ELLIOTTII	14"	REMOVE	NO, NOT IN PERIMETER
10	SABAL PALM	SABAL PALMETTO	10"	PRESERVE	NA	113	SLASH PINE	PINUS ELLIOTTII	6"	REMOVE	NO
11	SABAL PALM	SABAL PALMETTO	12"	PRESERVE	NA	114	SLASH PINE	PINUS ELLIOTTII	13"	REMOVE	NO, NOT IN PERIMETER
12	SABAL PALM	SABAL PALMETTO	12"	PRESERVE	NA	115	SLASH PINE	PINUS ELLIOTTII	5"	REMOVE	NO
13	LIVE OAK	QUERCUS VIRGINIANA	7"	PRESERVE	NA	116	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	NO, NOT IN PERIMETER
14	SLASH PINE	PINUS ELLIOTTII	12"	PRESERVE	NA	117	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	YES
15	SLASH PINE	PINUS ELLIOTTII	11"	REMOVE	YES	118	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	NO, NOT IN PERIMETER
16	SLASH PINE	PINUS ELLIOTTII	6"	REMOVE	NO	119	SLASH PINE	PINUS ELLIOTTII	21"	REMOVE	NO, NOT IN PERIMETER
17	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	YES	120	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	NO, NOT IN PERIMETER
18	SLASH PINE	PINUS ELLIOTTII	11"	REMOVE	YES	121	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	NO, NOT IN PERIMETER
19	SLASH PINE	PINUS ELLIOTTII	10"	PRESERVE	NA	122	SLASH PINE	PINUS ELLIOTTII	12"	REMOVE	NO, NOT IN PERIMETER
20	SLASH PINE	PINUS ELLIOTTII	11"	PRESERVE	NA	123	SLASH PINE	PINUS ELLIOTTII	12"	REMOVE	NO, NOT IN PERIMETER
21	SABAL PALM	SABAL PALMETTO	10"	RELOCATE ON SITE	NA	124	LIVE OAK	QUERCUS VIRGINIANA	9"	REMOVE	YES
22	SABAL PALM	SABAL PALMETTO	12"	RELOCATE ON SITE	NA	125	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	NO, NOT IN PERIMETER
23	SLASH PINE	PINUS ELLIOTTII	12"	PRESERVE	NA	126	SLASH PINE	PINUS ELLIOTTII	12"	REMOVE	NO, NOT IN PERIMETER
24	SABAL PALM	SABAL PALMETTO	10"	RELOCATE ON SITE	NA	127	SLASH PINE	PINUS ELLIOTTII	11"	REMOVE	NO, NOT IN PERIMETER
25	SABAL PALM	SABAL PALMETTO	7"	RELOCATE ON SITE	NA	128	SLASH PINE	PINUS ELLIOTTII	16"	REMOVE	NO, NOT IN PERIMETER
26	SABAL PALM	SABAL PALMETTO	10"	RELOCATE ON SITE	NA	129	SLASH PINE	PINUS ELLIOTTII	12"	REMOVE	NO, NOT IN PERIMETER
27	SABAL PALM	SABAL PALMETTO	7"	RELOCATE ON SITE	NA	130	SLASH PINE	PINUS ELLIOTTII	9"	REMOVE	NO, NOT IN PERIMETER
28	SABAL PALM	SABAL PALMETTO	10"	PRESERVE	NA	131	SLASH PINE	PINUS ELLIOTTII	12"	REMOVE	NO, NOT IN PERIMETER
29	SLASH PINE	PINUS ELLIOTTII	11"	PRESERVE	NA	132	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	NO, NOT IN PERIMETER
30	SLASH PINE	PINUS ELLIOTTII	11"	REMOVE	YES	133	SLASH PINE	PINUS ELLIOTTII	12"	REMOVE	NO, NOT IN PERIMETER
31	SABAL PALM	SABAL PALMETTO	14"	RELOCATE ON SITE	NA	134	SLASH PINE	PINUS ELLIOTTII	9"	REMOVE	NO, NOT IN PERIMETER
32	SLASH PINE	PINUS ELLIOTTII	12"	PRESERVE	NA	135	SLASH PINE	PINUS ELLIOTTII	9"	REMOVE	NO, NOT IN PERIMETER
33	SABAL PALM	SABAL PALMETTO	12"	PRESERVE	NA	136	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	NO, NOT IN PERIMETER
34	SABAL PALM	SABAL PALMETTO	10"	PRESERVE	NA	137	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	NO, NOT IN PERIMETER
35	SABAL PALM	SABAL PALMETTO	10"	PRESERVE	NA	138	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	NO, NOT IN PERIMETER
36	SABAL PALM	SABAL PALMETTO	15"	RELOCATE ON SITE	NA	139	SLASH PINE	PINUS ELLIOTTII	15"	REMOVE	NO, NOT IN PERIMETER
37	SABAL PALM	SABAL PALMETTO	12"	RELOCATE ON SITE	NA	140	SLASH PINE	PINUS ELLIOTTII	12"	REMOVE	YES
38	SABAL PALM	SABAL PALMETTO	15"	RELOCATE ON SITE	NA	141	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	YES
39	SABAL PALM	SABAL PALMETTO	10"	RELOCATE ON SITE	NA	142	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	YES
40	SLASH PINE	PINUS ELLIOTTII	6"	REMOVE	NO	143	SLASH PINE	PINUS ELLIOTTII	6"	REMOVE	NO
41	LIVE OAK	QUERCUS VIRGINIANA	10"	REMOVE	YES, > 8" DBH	144	SLASH PINE	PINUS ELLIOTTII	9"	REMOVE	YES
42	SLASH PINE	PINUS ELLIOTTII	12"	REMOVE	NO, NOT IN PERIMETER	145	SLASH PINE	PINUS ELLIOTTII	7"	REMOVE	NO
43	SLASH PINE	PINUS ELLIOTTII	16"	REMOVE	NO, NOT IN PERIMETER	146	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	YES
44	LIVE OAK	QUERCUS VIRGINIANA	10"	REMOVE	YES, > 8" DBH	147	SLASH PINE	PINUS ELLIOTTII	7"	REMOVE	NO
45	SLASH PINE	PINUS ELLIOTTII	13"	REMOVE	NO, NOT IN PERIMETER	148	SLASH PINE	PINUS ELLIOTTII	14"	REMOVE	NO, NOT IN PERIMETER
46	SLASH PINE	PINUS ELLIOTTII	15"	REMOVE	NO, NOT IN PERIMETER	149	SABAL PALM	SABAL PALMETTO	10"	RELOCATE ON SITE	NA
47	SABAL PALM	SABAL PALMETTO	15"	PRESERVE	NA	150	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	NO, NOT IN PERIMETER
48	SABAL PALM	SABAL PALMETTO	15"	PRESERVE	NA	151	SABAL PALM	SABAL PALMETTO	10"	PRESERVE	NA
49	SABAL PALM	SABAL PALMETTO	15"	PRESERVE	NA	152	SLASH PINE	PINUS ELLIOTTII	14"	REMOVE	NO, NOT IN PERIMETER
50	SABAL PALM	SABAL PALMETTO	15"	PRESERVE	NA	153	SLASH PINE	PINUS ELLIOTTII	12"	REMOVE	NO, NOT IN PERIMETER
51	SABAL PALM	SABAL PALMETTO	12"	PRESERVE	NA	154	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	NO, NOT IN PERIMETER
52	SABAL PALM	SABAL PALMETTO	15"	PRESERVE	NA	155	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	NO, NOT IN PERIMETER
53	SLASH PINE	PINUS ELLIOTTII	8"	PRESERVE	NA	156	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	NO, NOT IN PERIMETER
54	SLASH PINE	PINUS ELLIOTTII	8"	PRESERVE	NA	157	SLASH PINE	PINUS ELLIOTTII	9"	REMOVE	NO, NOT IN PERIMETER
55	SLASH PINE	PINUS ELLIOTTII	7"	REMOVE	NO	158	SABAL PALM	SABAL PALMETTO	8"	RELOCATE ON SITE	NA
56	SLASH PINE	PINUS ELLIOTTII	13"	REMOVE	NO, NOT IN PERIMETER	159	SLASH PINE	PINUS ELLIOTTII	12"	REMOVE	NO, NOT IN PERIMETER
57	SABAL PALM	SABAL PALMETTO	8"	PRESERVE	NA	160	SLASH PINE	PINUS ELLIOTTII	14"	REMOVE	NO, NOT IN PERIMETER
58	SLASH PINE	PINUS ELLIOTTII	10"	PRESERVE	NA	161	SLASH PINE	PINUS ELLIOTTII	10"	PRESERVE	NA
59	SABAL PALM	SABAL PALMETTO	12"	PRESERVE	NA	162	SLASH PINE	PINUS ELLIOTTII	9"	PRESERVE	NA
60	SABAL PALM	SABAL PALMETTO	12"	RELOCATE ON SITE	NA	163	SABAL PALM	SABAL PALMETTO	12"	PRESERVE	NA
61	SLASH PINE	PINUS ELLIOTTII	8"	PRESERVE	NA	164	SLASH PINE	PINUS ELLIOTTII	9"	PRESERVE	NA
62	SABAL PALM	SABAL PALMETTO	13"	RELOCATE ON SITE	NA	165	SABAL PALM	SABAL PALMETTO	10"	RELOCATE ON SITE	NA
63	SABAL PALM	SABAL PALMETTO	8"	RELOCATE ON SITE	NA	166	SABAL PALM	SABAL PALMETTO	11"	RELOCATE ON SITE	NA
64	SABAL PALM	SABAL PALMETTO	14"	RELOCATE ON SITE	NA	167	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	NO, NOT IN PERIMETER
65	SABAL PALM	SABAL PALMETTO	15"	RELOCATE ON SITE	NA	168	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	NO, NOT IN PERIMETER
66	SABAL PALM	SABAL PALMETTO	14"	RELOCATE ON SITE	NA	169	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	NO, NOT IN PERIMETER
67	SABAL PALM	SABAL PALMETTO	14"	RELOCATE ON SITE	NA	170	SABAL PALM	SABAL PALMETTO	8"	RELOCATE ON SITE	NA
68	SLASH PINE	PINUS ELLIOTTII	9"	PRESERVE	NA	171	SLASH PINE	PINUS ELLIOTTII	17"	PRESERVE	NA
69	SLASH PINE	PINUS ELLIOTTII	14"	REMOVE	NO, NOT IN PERIMETER	172	SABAL PALM	SABAL PALMETTO	12"	PRESERVE	NA
70	SLASH PINE	PINUS ELLIOTTII	9"	REMOVE	NO, NOT IN PERIMETER	173	SABAL PALM	SABAL PALMETTO	10"	RELOCATE ON SITE	NA
71	SLASH PINE	PINUS ELLIOTTII	13"	REMOVE	NO, NOT IN PERIMETER	174	SLASH PINE	PINUS ELLIOTTII	13"	PRESERVE	NA
72	SLASH PINE	PINUS ELLIOTTII	12"	REMOVE	NO, NOT IN PERIMETER	175	SLASH PINE	PINUS ELLIOTTII	12"	PRESERVE	NA
73	LIVE OAK	QUERCUS VIRGINIANA	10"	REMOVE	YES	176	SLASH PINE	PINUS ELLIOTTII	14"	PRESERVE	NA
74	SLASH PINE	PINUS ELLIOTTII	16"	REMOVE	YES	177	SABAL PALM	SABAL PALMETTO	12"	PRESERVE	NA
75	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	YES	178	SLASH PINE	PINUS ELLIOTTII	8"	PRESERVE	NA
76	SLASH PINE	PINUS ELLIOTTII	7"	REMOVE	NO	179	SLASH PINE	PINUS ELLIOTTII	12"	PRESERVE	NA
77	LIVE OAK	QUERCUS VIRGINIANA	11"	REMOVE	YES, > 8" DBH	180	SLASH PINE	PINUS ELLIOTTII	12"	PRESERVE	NA
78	SLASH PINE	PINUS ELLIOTTII	6"	REMOVE	NO	181	SABAL PALM	SABAL PALMETTO	8"	RELOCATE ON SITE	NA
79	SLASH PINE	PINUS ELLIOTTII	14"	REMOVE	NO, NOT IN PERIMETER	182	SABAL PALM	SABAL PALMETTO	11"	RELOCATE ON SITE	NA
80	SLASH PINE	PINUS ELLIOTTII	13"	REMOVE	NO, NOT IN PERIMETER	183	SABAL PALM	SABAL PALMETTO	10"	RELOCATE ON SITE	NA
81	SLASH PINE	PINUS ELLIOTTII	16"	REMOVE	NO, NOT IN PERIMETER	184	SABAL PALM	SABAL PALMETTO	11"	RELOCATE ON SITE	NA
82	SLASH PINE	PINUS ELLIOTTII	9"	REMOVE	NO, NOT IN PERIMETER	185	SLASH PINE	PINUS ELLIOTTII	14"	REMOVE	NO, NOT IN PERIMETER
83	LIVE OAK	QUERCUS VIRGINIANA	7"	REMOVE	NO, NOT IN PERIMETER	186	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	NO, NOT IN PERIMETER
84	SLASH PINE	PINUS ELLIOTTII	13"	REMOVE	NO, NOT IN PERIMETER	187	SABAL PALM	SABAL PALMETTO	10"	PRESERVE	NA
85	SLASH PINE	PINUS ELLIOTTII	6"	REMOVE	NO	188	SABAL PALM	SABAL PALMETTO	10"	PRESERVE	NA
86	SLASH PINE	PINUS ELLIOTTII	9"	REMOVE	NO, NOT IN PERIMETER	189	SABAL PALM	SABAL PALMETTO	16"	PRESERVE	NA
87	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	NO, NOT IN PERIMETER	190	SLASH PINE	PINUS ELLIOTTII	15"	PRESERVE	NA
88	SLASH PINE	PINUS ELLIOTTII	7"	REMOVE	NO	191	SABAL PALM	SABAL PALMETTO	12"	PRESERVE	NA
89	SLASH PINE	PINUS ELLIOTTII	5"	REMOVE	NO	192	SLASH PINE	PINUS ELLIOTTII	10"	PRESERVE	NA
90	SLASH PINE	PINUS ELLIOTTII	9"	REMOVE	NO, NOT IN PERIMETER	193	SLASH PINE	PINUS ELLIOTTII	10"	PRESERVE	NA
91	SLASH PINE	PINUS ELLIOTTII	11"	REMOVE	NO, NOT IN PERIMETER	194	SLASH PINE	PINUS ELLIOTTII	7"	PRESERVE	NA
92	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	NO, NOT IN PERIMETER	195	SLASH PINE	PINUS ELLIOTTII	11"	PRESERVE	NA
93	SLASH PINE	PINUS ELLIOTTII	7"	REMOVE	NO	196	SLASH PINE	PINUS ELLIOTTII	12"	PRESERVE	NA
94	SLASH PINE	PINUS ELLIOTTII	11"	REMOVE	NO, NOT IN PERIMETER	197	SLASH PINE	PINUS ELLIOTTII	15"	PRESERVE	NA
95	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	NO, NOT IN PERIMETER	198	SLASH PINE	PINUS ELLIOTTII	9"	REMOVE	NO, NOT IN PERIMETER
96	LIVE OAK	QUERCUS VIRGINIANA	14"	REMOVE	YES, > 8" DBH	199	SLASH PINE	PINUS ELLIOTTII	13"	REMOVE	NO, NOT IN PERIMETER
97	SLASH PINE	PINUS ELLIOTTII	15"	REMOVE	NO, NOT IN PERIMETER	200	SLASH PINE	PINUS ELLIOTTII	14"	REMOVE	NO, NOT IN PERIMETER
98	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	YES	201	SLASH PINE	PINUS ELLIOTTII	7"	REMOVE	NO
99	SLASH PINE	PINUS ELLIOTTII	12"	REMOVE	NO, NOT IN PERIMETER	202	SLASH PINE	PINUS ELLIOTTII	7"	REMOVE	NO
100	SLASH PINE	PINUS ELLIOTTII	7"	REMOVE	NO	203	LIVE OAK	QUERCUS VIRGINIANA	8"	REMOVE	YES, > 8" DBH
101	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	YES						
102	SLASH PINE	PINUS ELLIOTTII	13"	REMOVE	YES						
103	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	YES						



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**CIRCLE K #1885**

Martin County, Florida



DESIGNED \_\_\_\_\_ DTS  
DRAWN \_\_\_\_\_ LH  
APPROVED \_\_\_\_\_ DTS  
JOB NUMBER 16-0804  
DATE 09-15-17  
REVISIONS 02-07-18  
06-20-18

## TREE MITIGATION TABLE

May 16, 2017 4:48:19 p.m.  
17-0201\_CONCEPTUAL MASTER PLAN B.DWG

# TREE MITIGATION DATA

## TREE MITIGATION DATA - PER STANDARD CODE REQUIREMENT

TREE #	REPLACEMENT TREES	MITIGATION RATIO	BOTANICAL NAME	COMMON NAME	SIZE	TREE DBH CREDITS
TREE # 1:	LIVE OAK					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (8" DBH)						
TREE # 41:	LIVE OAK					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (10" DBH)						
TREE # 44:	LIVE OAK					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (10" DBH)						
TREE # 73:	LIVE OAK					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (10" DBH)						
TREE # 77:	LIVE OAK					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (11" DBH)						
TREE # 98:	SLASH PINE					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (10" DBH)						
TREE # 101:	SLASH PINE					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (10" DBH)						
TREE # 102:	SLASH PINE					
2	2	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	4 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>6 CREDITS</b>
4 REPLACEMENT CREDITS (13" DBH)						
TREE # 103:	SLASH PINE					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (8" DBH)						
TREE # 104:	SLASH PINE					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (8" DBH)						
TREE # 105:	SLASH PINE					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (9" DBH)						
TREE # 106:	SLASH PINE					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (10" DBH)						
TREE # 117:	SLASH PINE					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (8" DBH)						
TREE # 124:	LIVE OAK					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (9" DBH)						
TREE # 140:	SLASH PINE					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (12" DBH)						
TREE # 141:	SLASH PINE					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (10" DBH)						
TREE # 142:	SLASH PINE					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (8" DBH)						
TREE # 144:	SLASH PINE					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (9" DBH)						
TREE # 146:	SLASH PINE					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (8" DBH)						
TREE # 203:	LIVE OAK					
1	1	1:1	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT, 6'-8" SPRD, 6" CAL	3 CREDITS
					<b>TOTAL DBH CREDITS MITIGATED</b>	<b>3 CREDITS</b>
3 REPLACEMENT CREDITS (8" DBH)						

TOTAL REPLACEMENT TREES: GRAND TOTAL DBH CREDITS REQUIRED 61 CREDITS  
 GRAND TOTAL DBH CREDITS PROVIDED 63 CREDITS

# TREE TO BE REMOVED REQUIRING MITIGATION

Tree #	Tree Species		DBH/Height	Proposed Disposition	Mitigate	Replacement Credit Needed	Replacement Credit Provided
	Common Name	Botanical Name					
1	LIVE OAK	QUERCUS VIRGINIANA	8"	REMOVE	YES, 8"-12" DBH	3	3
41	LIVE OAK	QUERCUS VIRGINIANA	10"	REMOVE	YES, 8"-12" DBH	3	3
44	LIVE OAK	QUERCUS VIRGINIANA	10"	REMOVE	YES, 8"-12" DBH	3	3
73	LIVE OAK	QUERCUS VIRGINIANA	10"	REMOVE	YES, 8"-12" DBH	3	3
77	LIVE OAK	QUERCUS VIRGINIANA	11"	REMOVE	YES, 8"-12" DBH	3	3
98	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	YES, 8"-12" DBH	3	3
101	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	YES, 8"-12" DBH	3	3
102	SLASH PINE	PINUS ELLIOTTII	13"	REMOVE	YES, 13"-18" DBH	4	6
103	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	YES, 8"-12" DBH	3	3
104	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	YES, 8"-12" DBH	3	3
105	SLASH PINE	PINUS ELLIOTTII	9"	REMOVE	YES, 8"-12" DBH	3	3
106	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	YES, 8"-12" DBH	3	3
117	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	YES, 8"-12" DBH	3	3
124	LIVE OAK	QUERCUS VIRGINIANA	9"	REMOVE	YES, 8"-12" DBH	3	3
140	SLASH PINE	PINUS ELLIOTTII	12"	REMOVE	YES, 8"-12" DBH	3	3
141	SLASH PINE	PINUS ELLIOTTII	10"	REMOVE	YES, 8"-12" DBH	3	3
142	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	YES, 8"-12" DBH	3	3
144	SLASH PINE	PINUS ELLIOTTII	9"	REMOVE	YES, 8"-12" DBH	3	3
146	SLASH PINE	PINUS ELLIOTTII	8"	REMOVE	YES, 8"-12" DBH	3	3
203	LIVE OAK	QUERCUS VIRGINIANA	8"	REMOVE	YES, 8"-12" DBH	3	3
<b>TOTAL CREDITS:</b>						<b>61</b>	<b>63</b>

## \*NOTES:

FOR EACH 4 INCH CALIPER TREE REPLANTED, 3 TREE CREDITS ARE GIVEN.

PER MARTIN COUNTY STANDARDS, TREES USED IN THE LANDSCAPE DATA THAT GO ABOVE THE MINIMUM CALIPER REQUIREMENT CAN SATISFY THE TREE REPLACEMENT CREDITS. OAKS BEING USED ARE SPECIFIED AT 6" CAL, USING THE EXTRA 4" TOWARD THE TREE MITIGATION CALCULATIONS.

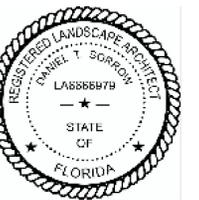


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CIRCLE K #1885

Martin County, Florida



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# TREE MITIGATION TABLE

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SHEET 3 OF 3

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