



## THE CITY OF KEY WEST – Tree Commission

Post Office Box 1409, Key West, FL 33041-1409  
(305) 809-3768

Date: August 4, 2023

From: Karen DeMaria, Urban Forestry Manager

Reference: Use of Tree Fund Money for the Purchase of Trees- US 1 Triangle Beautification Project

On February 13, 2023, the Tree Commission approved a landscape plan and tree removal application regarding the beautification of the US1/Triangle entrance area to the City of Key West. Tree permit T2023-0023, approved the removal of (2) Orange Geiger and (1) Sapodilla tree to be replaced with 25.8 caliper inches of approved trees and Tree permit T2023-0024, approved the transplantation of (16) Sabal Palms.

The beautification of the US1/Triangle entrance area is a project that received grant money and final design approvals from FDOT. The project is ready to start but costs associated with the work exceed the grant moneys that were appropriated. In order to reduce direct grant associated costs, it is asked that City Tree Fund money be used to purchase the trees and palms for the project, and the transplantations of the Sabal palms.

Sec 110-287 states that funds from the tree fund account shall be spent only as requested by the urban forestry manager and approved by the Tree Commission and shall be used to finance protection, replacement, or additional plantings of trees in the City.

Therefore, it is asked that a total of \$30,937.65 of Tree Fund money be approved for use as requested, in the US 1 Triangle Beautification project.

Tree Commission  
MEMORANDUM

## Karen DeMaria

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**From:** Karen DeMaria  
**Sent:** Friday, August 4, 2023 12:14 PM  
**To:** Karen DeMaria  
**Subject:** FW: Tree fund- FDOT Entry beautification  
**Attachments:** Bid Breakdown- Tree fund.pdf

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**From:** Karen Wilman <karen.wilman@cityofkeywest-fl.gov>  
**Sent:** Tuesday, July 25, 2023 3:56 PM  
**To:** Karen DeMaria <kdemaria@cityofkeywest-fl.gov>  
**Cc:** Ian McDowell <cimcdowell@cityofkeywest-fl.gov>; Gary Volenec <gary.volene@cityofkeywest-fl.gov>  
**Subject:** RE: Tree fund- FDOT Entry beautification

Karen, please see the attached bid showing the total costs for the trees (\$24,462.06) and transplanted sabal palms (\$6,475.59) for a total request of \$30,937.65. Please let me know if we can put this on the Aug tree commission for approval.

Thank you,

*Karen Wilman*  
**City of Key West**  
**(305) 809-3963**  
[Karen.wilman@cityofkeywest-fl.gov](mailto:Karen.wilman@cityofkeywest-fl.gov)

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**From:** Karen Wilman <[karen.wilman@cityofkeywest-fl.gov](mailto:karen.wilman@cityofkeywest-fl.gov)>  
**Sent:** Monday, July 24, 2023 11:57 AM  
**To:** Karen DeMaria <[kdemaria@cityofkeywest-fl.gov](mailto:kdemaria@cityofkeywest-fl.gov)>  
**Cc:** Ian McDowell <[cimcdowell@cityofkeywest-fl.gov](mailto:cimcdowell@cityofkeywest-fl.gov)>; Gary Volenec <[gary.volene@cityofkeywest-fl.gov](mailto:gary.volene@cityofkeywest-fl.gov)>  
**Subject:** Tree fund- FDOT Entry beautification

Karen, attached is the bid from Blue native for the entry triangle. Engineering is in communication with them to understand the bid and possibly adding irrigation to the project based on the cost of watering.

In the past you mentioned that you might have dollars for trees. Do you have time tomorrow to talk about tree funds that might be available for the project?

Gary, you might also want to talk about Clinton square for tree fund dollars.

*Karen Wilman*  
**Senior Construction Manager**  
**Engineering Department**  
**City of Key West**  
**(305) 809-3963**  
[Karen.wilman@cityofkeywest-fl.gov](mailto:Karen.wilman@cityofkeywest-fl.gov)

Scope	Details	Quantity	Column4	Column6	
Landscape	Christmas Palm, Adonidia merrillii, Field Grown, 100 Gallon, 12' x 6 Grey Wood	19	999.76	18995.44	18995.44
Landscape	Perennial Peanut, Arachis glabrata, 1 Gallon, 4"-6" x 12"-18", 18" On center	221	7.47	1650.87	
Landscape	Alabama Sunset Bougainvillea, Bougainvillea x 'Alabama Sunset', 7 Gallon (5 Gallon NOT AVAILABLE)	83	54.94	4560.02	
Landscape	Jamaica Caper, Capparis cynophallophora, Field Grown, 65 Gallon, 8' x 4' Full	1	909.84	909.84	909.84
Landscape	Apple Blossom, Cassia fistula, Field Grown, 65 Gallon, 12'-14' x 6	1	1014.84	1014.84	1014.84
Landscape	Paradise Tree, Caesalpinia gilliesii, Roots Plus Grower, 65 Gallon, 14'-16' x 6	1	944.84	944.84	944.84
Landscape	Crinum Lily, Crinum asiaticum, Roots Plus Grower, 7 Gallon	7	56.34	394.38	
Landscape	Royal Poinciana, Delonix regia, Roots Plus Grower, 65 Gallon, 14'-16' x 6	2	945.09	1890.18	1890.18
Landscape	Green Island Fig, Ficus microcarpa, 3 Gallon, 12"x12", Full Pot, 24" On center	1526	17.15	26170.9	
Landscape	Dune Sunflower, Helianthus debilis, 1Gallon (3 Gallon NOT AVAILABLE)	488	12.95	6319.6	
Landscape	Frangipani, Plumeria, Field Grown, 45 Gallon, 7' x 4'	1	706.92	706.92	706.92
Landscape	Bird of Paradise, Strelitzia juncea, 3 Gallon, Full Pot, 24" On center	70	54.25	3797.5	
Landscape	St. Augustine Grass, Stenotaphrum secundatum, Solid Mat	5514	0.95	5238.243	
Tree Disposition	Sabal Palmetto	9	719.51	6475.59	
				79069.163	
					\$ 6,475.59
					\$ 30,937.65
Maintenance	Maintenance (Bi-Weekly Service)	26	1153.85	30000.1	
Maintenance of Traffic	Maintenance of Traffic	1	3500	3500	
Inlet Protection	Inlet Protection System	5	308	1540	
Watering	Watering	34	1680	57120	\$ 136,189.16
Tree Disposition	Clearing and Grubbing	1	4900	4900	
Site Work	Per Plans 6" of Soil per Truck	8	1190	9520	
Site Work	Excavation of Existing and Installation of New Soil	1	6300	6300	
	No MOT plans provided. MOT costs are based on limited, temporary Traffic redirection				
					\$ 191,949.26

# CITY OF KEY WEST, FLORIDA

## CONSTRUCTION PLANS

### INDEX OF LANDSCAPE PLANS

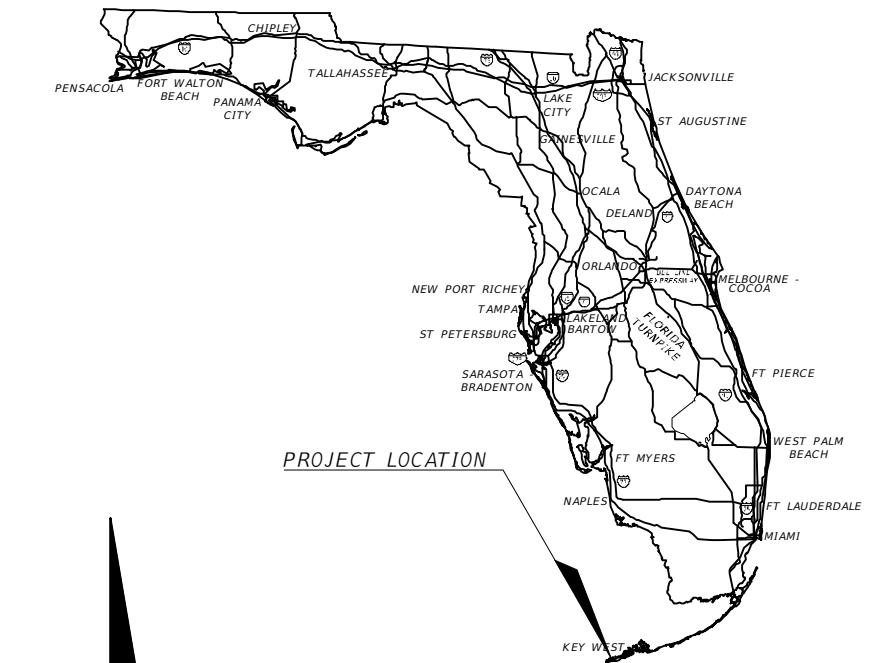
SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2	SUMMARY OF PAY ITEMS
LD-3	TABULATION OF QUANTITIES
LD-4	GENERAL LANDSCAPE NOTES
LD-5 & LD-6	TREE DISPOSITION PLANS
LD-7 & LD-8	LANDSCAPE PLANS
LD-9	LANDSCAPE DETAILS
LD-10	LANDSCAPE DETAILS

FINANCIAL PROJECT ID 450501-1-74-01

MONROE COUNTY (9001-0000)

U.S. 1/ S.R. 5

## LANDSCAPE PLANS



PROJECT LOCATION



### LANDSCAPE PLANS PROFESSIONAL OF RECORD:

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT  
ARE NOT CONSIDERED SIGNED AND  
SEALED. THE SIGNATURE MUST BE  
VERIFIED ON THE ELECTRONIC  
DOCUMENTS.

GAI CONSULTANTS, INC.  
618 E. SOUTH STREET, SUITE 700  
ORLANDO, FL 32801  
KEITH OROPEZA LA NO. 0001023

### FDOT PROJECT MANAGER: MAITE MEDINA

FINAL PLANS  
10-31-22

COMMUNITY  
SOLUTIONS  
GROUP

A GAI Consultants Service Group

### LANDSCAPE ARCHITECTURE

618 E. SOUTH STREET  
SUITE 700  
ORLANDO, FL 32801  
Phone: (407) 423-8398  
Fax: (407) 843-1070

Contact: Keith Oropeza, RLA

**Sunshine 811**

Call 811 or visit [sunshine811.com](http://sunshine811.com) two full business days before digging to have buried facilities located and marked.

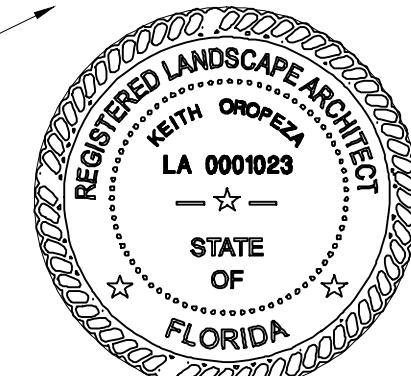
Check positive response codes before you dig!

GOVERNING STANDARD PLANS:  
Florida Department of Transportation, FY2022-23 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

APPLICABLE IRs: None

GOVERNING STANDARD SPECIFICATIONS:  
Florida Department of Transportation, JULY 2022 Standard Specifications for Road and Bridge Construction at the following website:  
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>



BEGIN PROJECT  
STA. 20+33.17  
MP 3.927  
END PROJECT  
STA. 29+08.30  
MP 4.100

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T-0000	23	LD-1

FLORIDA DEPARTMENT OF TRANSPORTATION  
PROJECT SUMMARY OF PAY ITEMS  
FOR PROJECT: 450501-1-74-01

Item #	Pay Item #	Pay Size	Code	Description					TOTAL	UNIT
1	101-1			MOBILIZATION					1	LS
2	102-1			MAINTENANCE OF TRAFFIC					1	LS
3	104-18			INLET PROTECTION SYSTEM					5	EA
4	110-1-1			CLEARING AND GRUBBING					1	LS
5	581-1-8			RELOCATE TREES AND PALMS, >=14' OF CLEAR TRUNK, SABAL PALM ONLY					9	EA
				LANDSCAPE COMPLETE - LARGE PLANTS						
		Pay Size	Code	(Botanical/Common)		Cont / Size			Spacing	
6	580-1-2	Large	AD	Adonidia merrillii / Christmas Palm	F.G.	100 Gal, B&B	12'x6 Gray Wood	As Shown	19	EA
7	580-1-2	Large	CC	Capparis cynophallophora / Jamaica Caper	F.G.	65 Gal	8' x 4' Full	As Shown	1	EA
8	580-1-2	Large	CG	Caesalpinia gilliesii / Paradise Tree	RPG	65 Gal	14'-16'x6	As Shown	1	EA
9	580-1-2	Large	CR	Crinum asiaticum / Crinum Lily	F.G.	7 Gal		As Shown	7	EA
10	580-1-2	Large	CF	Cassia fistula / Apple Blossom	RPG	65 Gal	12'-14'x6	As Shown	1	EA
11	580-1-2	Large	DR	Delonix regia / Royal Poinciana	F.G.	65 Gal	14'-16'x6	As Shown	2	EA
12	580-1-2	Large	PL	Plumeria / Frangipani	F.G.	45 Gal	7' x 4'	As Shown	1	EA
				LANDSCAPE COMPLETE SMALL PLANTS						
13	580-1-1	Small	BX	Bougainvillea x 'Alabama Sunset' / Alabama Sunset Bougainvillea		5 gal	24"x24"; Full Pot	48" o.c.	83	EA
14	580-1-1	Small	FM	Ficus microcarpa / Green Island Fig		3 gal	12"x12"; Full Pot	24" o.c.	1,526	EA
15	580-1-1	Small	HD	Helianthus debilis / Dune Sunflower		3 gal	14"x16"; Full Pot	18" o.c.	488	EA
16	580-1-1	Small	SJ	Strelitzia juncea / Bird of Paradise		3 gal	Full Pot	24" o.c.	70	EA
17	580-1-1	Small	AG	Arachis glabrata / Perennial Peanut		1 gal	4"-6" x 12"-18"	18" o.c.	221	EA
				TURF						
18	570-1-2	Turf	SS	Stenotaphrum secundatum / St. Augustine Grass	SY	Solid mat	Solid mat	Solid	598	SY
				ESTABLISHMENT						
19	570-9-1			Watering for Installation/Establishment, Year One (Priced Per Tree)					34	EA
20	580-173-2			Maintenance / Establishment Period, One Year					1	LS
21	580-11-2			Mycorrhizal Fungal Inoculate					1	LS

(SEE TABULATION OF QUANTITIES FOR BREAKDOWN OF LANDSCAPE MATERIAL.)

REVISIONS				KEITH OROPEZA, RLA LICENSE #LA0001023 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF PAY ITEMS
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 5	MONROE	450501-1-74-01	

LANDSCAPE TABULATION OF QUANTITIES AND PLANT SCHEDULE									SHEET NUMBERS								
PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINT'D SIZE	SPACING	REMARKS	UNIT	LD-7		LD-8				TOTAL	
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
581-1-8	Large	SP	<i>Sabal palmetto</i>	Sabal Palm	existing	N/A	As Shown	relocated trees	EA	9						9	
580-1-2	Large	AD	<i>Adonidia merrillii</i>	Christmas Palm	B&B	N/A	As Shown	100 gal; 12-14 GW	EA	16		3				19	
580-1-2	Large	CC	<i>Capparis cynophallophora</i>	Jamaica Caper	8' x 4'; Full	N/A	As Shown	65 gal.	EA	1						1	
580-1-2	Large	CG	<i>Caesalpinia gilliesii</i>	Paradise Tree	14'-16'x6	N/A	As Shown	65 gal; 4" cal.	EA			1				1	
580-1-2	Large	CF	<i>Cassia fistula</i>	Apple Blossom	12'-14'x6	N/A	As Shown	65 gal; 4" cal.	EA			1				1	
580-1-2	Large	CR	<i>Crinum asiaticum</i>	Crinum Lily		N/A	As Shown	7 gal.	EA	7						7	
580-1-2	Large	DR	<i>Delonix regia</i>	Royal Poinciana	14'-16'x6	N/A	As Shown	65 gal; 4" cal.	EA	1		1				2	
580-1-2	Large	PL	<i>Plumeria</i>	Frangipani	7' x 4'	N/A	As Shown	45 gal; 3" cal.	EA	1						1	
580-1-1	Small	BX	<i>Bougainvillea</i> x 'Alabama Sunset'	Alabama Sunset Bougainvillea	24"x24"; Full Pot	N/A	48" o.c.	5 gal	EA			83				83	
580-1-1	Small	FM	<i>Ficus microcarpa</i> 'Green Island'	Green Island Fig	12"x12"; Full Pot	N/A	24" o.c.	3 gal	EA	951		575				1526	
580-1-2	Large	HD	<i>Helianthus debilis</i>	Dune Sunflower	14"x16"; Full Pot	N/A	18" o.c.	3 gal	EA	203		285				488	
580-1-1	Small	SJ	<i>Strelitzia juncea</i>	Bird of Paradise	Full Pot	N/A	24" o.c.	3 gal	EA	25		45				70	
580-1-1	Small	AG	<i>Arachis glabrata</i>	Perennial Peanut	4"-6" HT. X 12"-18" Sprd.	N/A	18" o.c.	1 gal	EA	221						221	
570-1-2	Turf	SS	<i>Stenotaphrum secundatum</i>	St. Augustine Grass			Solid	Flat	SY	407		192				598	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KEITH OROPEZA, RLA  
LICENSE #LA0001023  
GAI CONSULTANTS, INC.  
618 E. SOUTH STREET - SUITE 700  
ORLANDO, FL 32801

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION  
ROAD NO. COUNTY FINANCIAL PROJECT ID  
SR 5 MONROE 450501-1-74-01

TABULATION OF QUANTITIES

SHEET NO.  
LD-3

**LANDSCAPE NOTES:**

1. Flag all planting locations prior to installation. All planting locations must be approved by and may be adjusted by the Landscape Architect.
2. All plant materials are subject to inspection and approval by the Landscape Architect at the growing site, nursery or handling area designated for the project site.
3. Transplant all existing sabal palm trees in work area.
4. All plant material improperly pruned, undersized, infested, diseased or otherwise not to grade or size indicated on the plans shall be removed and replaced upon notice from either the county engineer or county landscape coordinator, or their assigned agent.
5. Take responsibility for plant quantity take-off and provide all plant material required as shown on landscape plans.
6. Apply pre-emergent granular herbicide to all planting beds and mulch rings. The herbicide active ingredients shall be suitable for control of annual and perennial broadleaf weeds and grasses. The granular herbicide shall be applied by hand after planting and before placing mulch. The herbicide shall be applied at a rate recommended by the manufacturer.
7. Treat the root ball of all trees in the upper 8-10 inches of the planting hole with the manufacturer's recommended amount of mycorrhizal fungal inoculants, to include at a minimum of the following:
  - Endomycorrhizal fungus
  - Ectomycorrhizal fungus
  - Fulvic acid
  - Trichoderma
  - Phosphate solubilizing, nitrogen fixing and growth promoting bacteria
  - Humic acid derived from Leonardite
  - Sea kelp extract (*Ascophyllum nodosum*)
  - Yucca plant extract (*Yucca schidigera*)
  - Water holding polymer (cross linked acrylamide and potassium acrylate)
  - Particle size: 0.8 mm to 2.0 mm
  - Percent soluble: less than 0.05%
  - Absorption rate: 300-400 times in distilled water

Submit sample of mycorrhizal for acceptance by the Landscape Architect.

10. Use slow release, long-lasting, 20-10-5 Planting Tablets plus minors during planting per manufacturer's specifications.
11. Use super-absorbent long-lasting medium or coarse planting hydrogel, (Potassium Polyacrylamide acrylate Copolymer) in conjunction with planting on all palms and trees.

**Signs:**

All present traffic signs and delineator posts are to remain in place and are not to be removed nor impacted, including temporarily, in any way as a result of the construction activities by the contractor.

**ENVIRONMENTAL MANAGEMENT NOTES:**

The following Federal and State listed animal species could inhabit or migrate through the construction area: Roseate Tern, Piping Plover, American Crocodile, Stock Island Tree Snail, and Red Knot. The contractor shall comply with all Federal and State requirements regarding endangered and threatened species and State listed species of special concern. Should these species be encountered, the Contractor shall contact the Project Engineer within 24 hours of each encounter.

No staging or other activities for this project will be allowed within or adjacent to the Florida Keys Overseas Heritage Trail or the Florida Keys National Marine Sanctuary. Access to the Florida Keys Overseas Heritage Trail must be maintained at all times.

**CITY OF KEY WEST PROJECT CONTACTS:**

Project Manager	Karen Wilman	karen.wilman@cityofkeywest-fl.gov	305-809-3963
Engineering Director	Gary Volenec	gary.volene@cityofkeywest-fl.gov	305-809-3828
Assistant Engineer	Ian McDowell	cimcdowell@cityofkeywest-fl.gov	305-809-3753
Community Services	Marcus A. Davila	madavila@cityofkeywest-fl.gov	305-809-3765
Urban Forestry	Karen DeMaria	kdemaria@cityofkeywest-fl.gov	305-809-3768

**Lane Closure Notification**

Director of Transportation	Rod Delostrinos	rde lostrinos@cityofkeywest-fl.gov	305-809-3918
Public Information Officer	Alyson Crean	acrean@cityofkeywest-fl.gov	305-809-1058

**UTILITY NOTES:**

The location(s) of the utilities shown in the plans are based on limited investigation techniques and should be considered approximate only. Plant material that appears to be in close proximity to existing utilities should be field located with soft digs to locate exact location of buried utility.

Existing utilities are to remain in place unless otherwise noted.

**UTILITY CONTACTS:**

<b>FDOT DISTRICT 6 PERMITTING</b>
Loren Marquez, P.E., C.B.I.
Consultant (LARS Engineering)
Ferrovial Services/FDOT - District Six
Email 1: lmarquez@larseng.com
Email 2: loren.marquez@dot.state.fl.us
Office: (305) 631-2594; Mobile: (305) 469-6162

<b>KEYS ENERGY SERVICES</b>
Dan Sabino
Work 305-295-1041; Cell 305-304-4556

<b>MONROE COUNTY</b>
Judith S. Clarke, P.E., Director of Engineering Services
Monroe County

1100 Simonton Street  
Key West, Florida 33040

<b>KWDOT</b>
Rod Delostrinos, Director of Transportation
City of Key West

<b>ATT</b>
Dan Julian, Network Manager / Lead Construction & Engineering
ACE, South Florida Engineering and Construction

<b>COMCAST</b>
Michael Martin, Fielder

Lightspeed Construction Group  
727-313-1435

**FDOT ITS FACILITIES**

Non-located / unmarked FDOT ITS facilities, including fiber optic communications and traffic control signal loops/devices, may be located within the project limits; make temporary repairs to any damage to a facility within four (4) hours of the occurrence. If assistance is required regarding ITS facilities, contact the District 6 FDOT Traffic Operations ITS Manager at (305) 470-5336.

**TEMPORARY TRAFFIC CONTROL NOTES:**

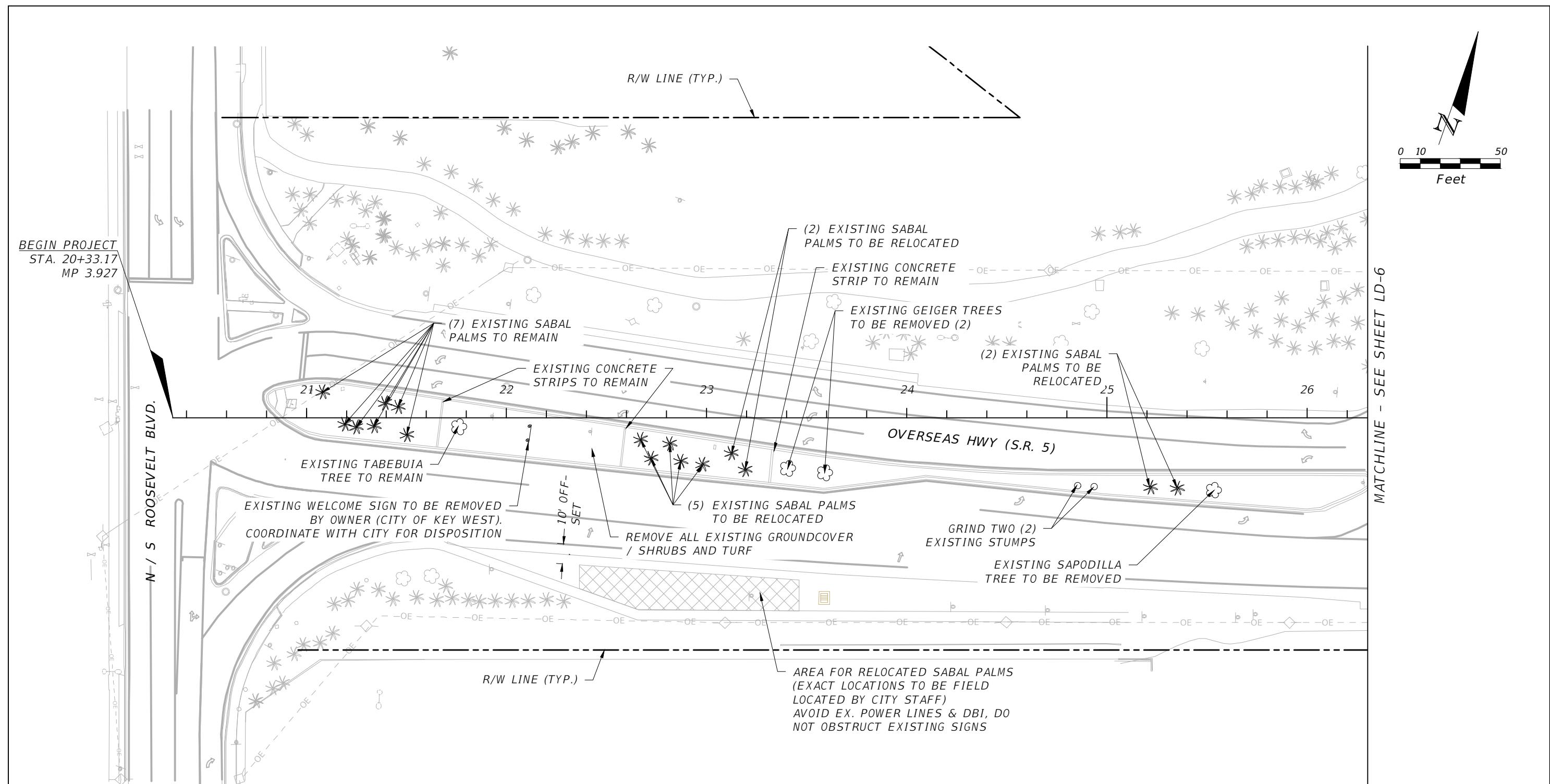
1. Traffic controls shall be in accordance with the project plans, the current edition of the Florida DOT Standard Plans (102-600 series), the standard specification for road and bridge construction, and the manual on uniform traffic control devices as minimum criteria.
2. Notification of lane closures or temporary detours shall be accomplished 14 working days prior to closure, detour or MOT phase change by submitting the required lane closure form, sketches, calculations, and other data through the engineer to the district traffic operations office.
3. The traffic and travel ways shall not be altered by the contractor to create a work zone until all labor and material are available for the construction in that area.
4. Lane Closings shall occur only during NON-PEAK hours. NON-PEAK hours are:  
8:00 PM to 6:00 AM Sunday through Thursday nights
5. The contractor shall develop a detailed maintenance of traffic plan based on the site-specific means and methods of construction. The detailed plans shall be submitted for review and approval by the city prior to any construction activities. Traffic plan shall be in conformance with FDOT standard plans 102-600 series.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KEITH OROPEZA, RLA  
LICENSE #LA0001023  
GAI CONSULTANTS, INC.  
618 E. SOUTH STREET - SUITE 700  
ORLANDO, FL 32801

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	450501-1-74-01

**GENERAL LANDSCAPE NOTES**

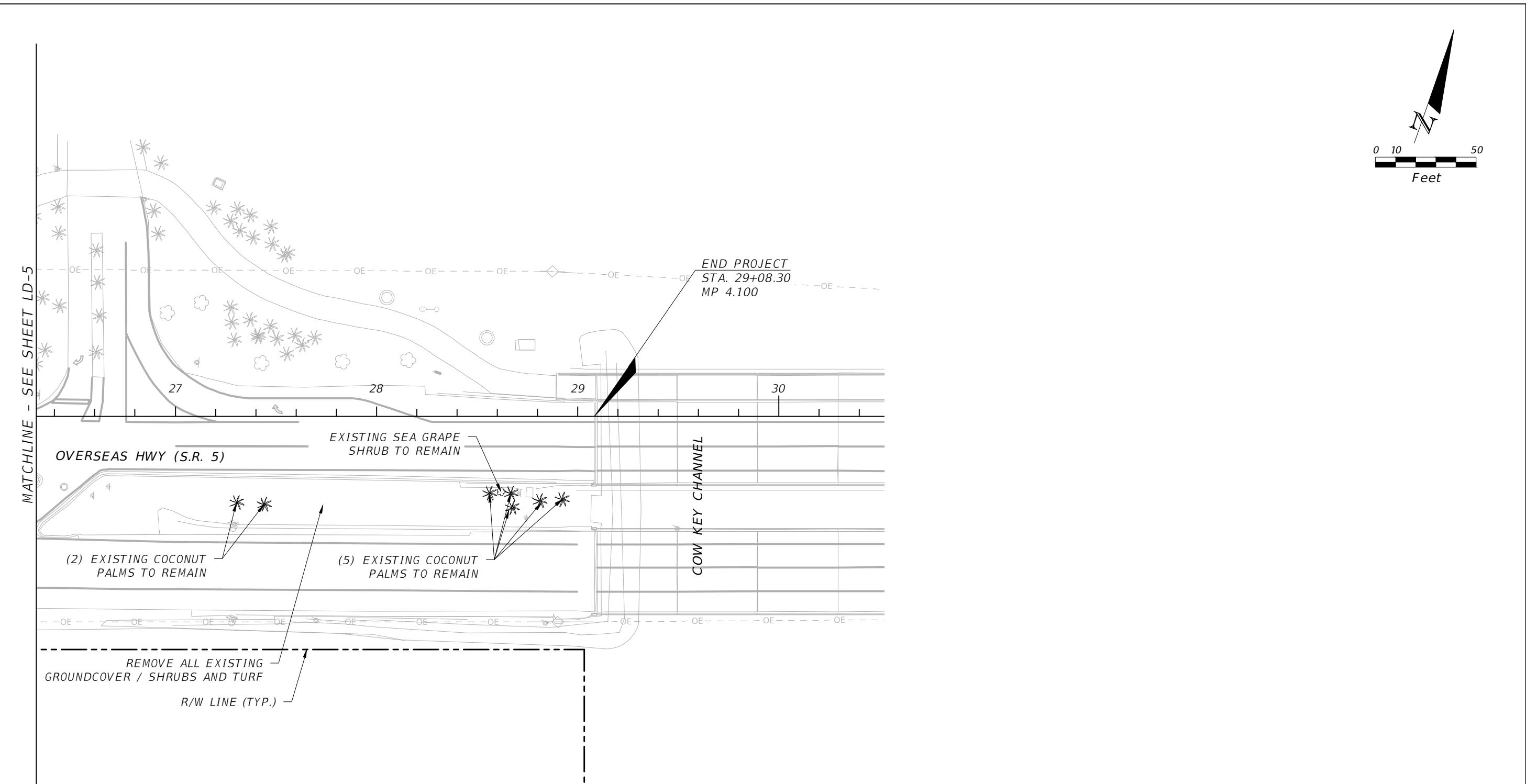


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ORLANDO, FL 32801

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION  
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SR 5 MONROE 450501-1-74-01

**TREE DISPOSITION PLANS**



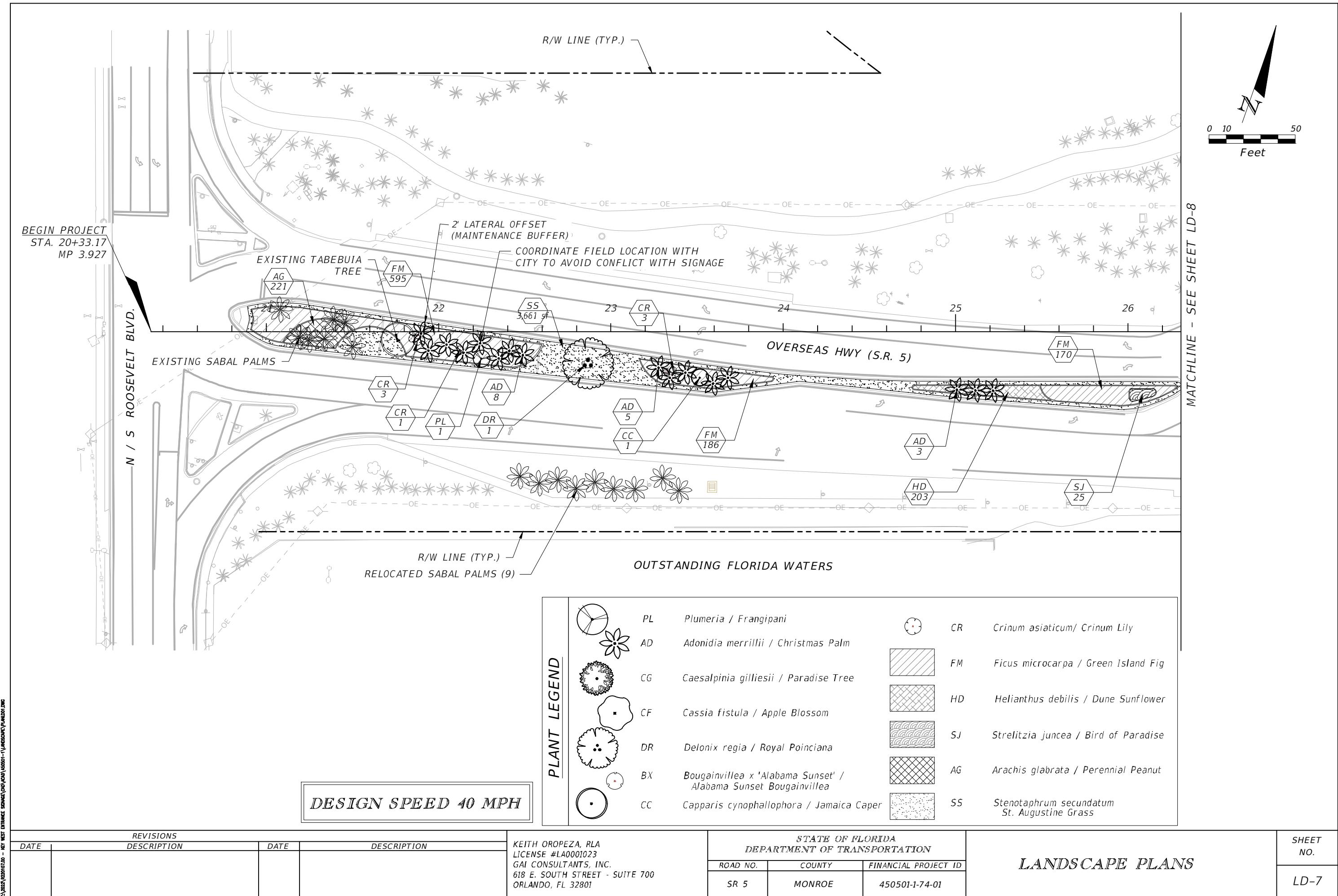
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STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION  
ROAD NO. COUNTY FINANCIAL PROJECT ID  
SR 5 MONROE 450501-1-74-01

TREE DISPOSITION PLANS

SHEET NO.  
LD-6



## MATCHLINE = SEE SHEET 1D-7

OVERSEAS HWY (S.R. 5)

LINE OF CLEAR SIGHT

EXISTING COCONUT PALMS

FM 575

HD 145

HD 140

SS 1,724 sf

AD 3

DR 1

CG 1

Dv = 330'

27 28 29 30 31

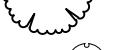
COW KEY CHANNEL

END PROJECT STA. 29+08.30 MP 4.100

## *OUTSTANDING FLORIDA WATERS*

### DESIGN SPEED 40 MPH

PLANT LEGEND

PLANT LEGEND		SPECIES			
	PL	<i>Plumeria / Frangipani</i>		CR	<i>Crinum asiaticum/ Crinum Lily</i>
	AD	<i>Adonidia merrillii / Christmas Palm</i>		FM	<i>Ficus microcarpa / Green Island Fig</i>
	CG	<i>Caesalpinia gilliesii / Paradise Tree</i>		HD	<i>Helianthus debilis / Dune Sunflower</i>
	CF	<i>Cassia fistula / Apple Blossom</i>		SJ	<i>Strelitzia juncea / Bird of Paradise</i>
	DR	<i>Delonix regia / Royal Poinciana</i>		AG	<i>Arachis glabrata / Perennial Peanut</i>
	BX	<i>Bougainvillea x 'Alabama Sunset' / Alabama Sunset Bougainvillea</i>		SS	<i>Stenotaphrum secundatum / St. Augustine Grass</i>
	CC	<i>Capparis cynophallophora / Jamaica Caper</i>			

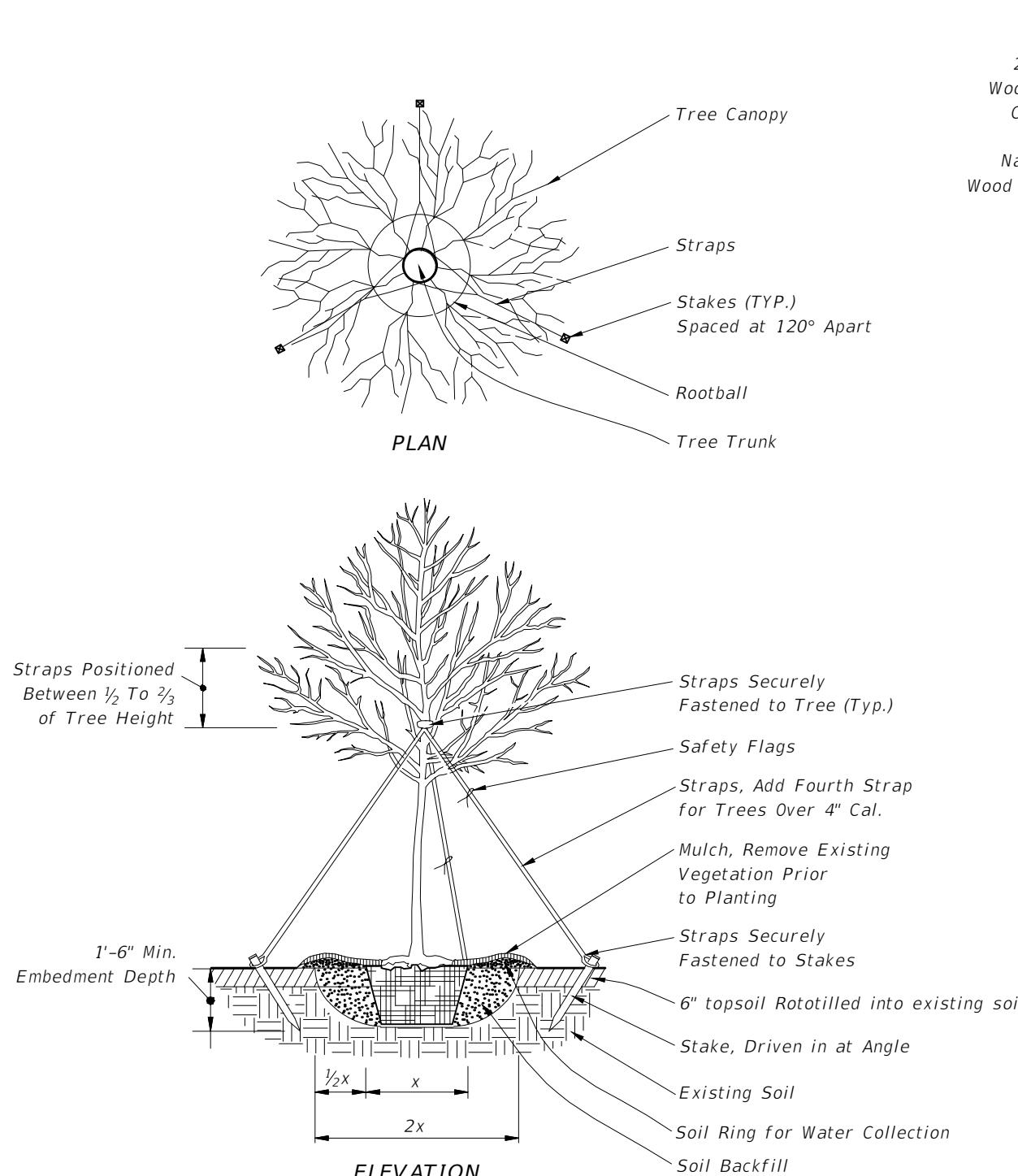
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618 E. SOUTH STREET - SUITE 700  
ORLANDO, FL 32801

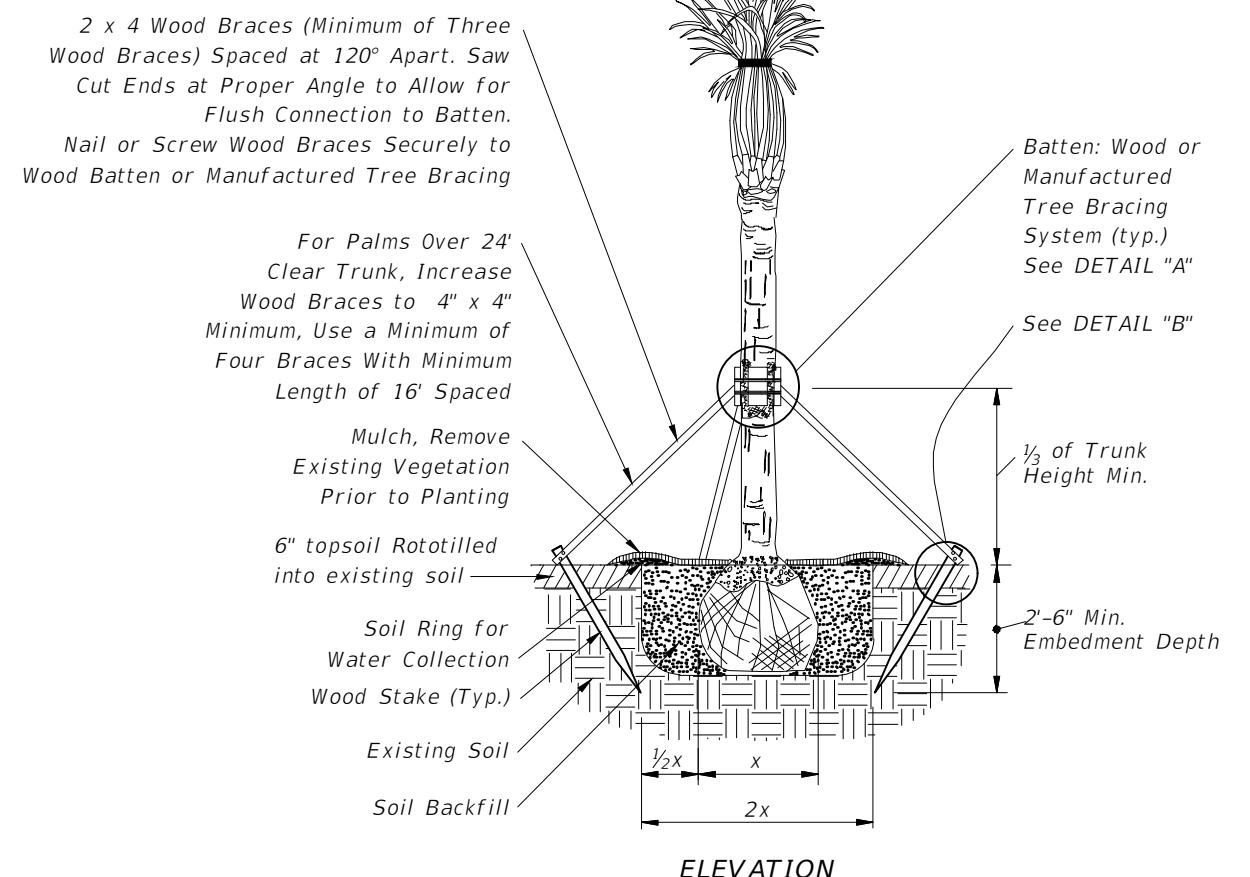
**STATE OF FLORIDA**  
**DEPARTMENT OF TRANSPORTATION**

## LANDSCAPE PLANS

THE JOURNAL OF CLIMATE

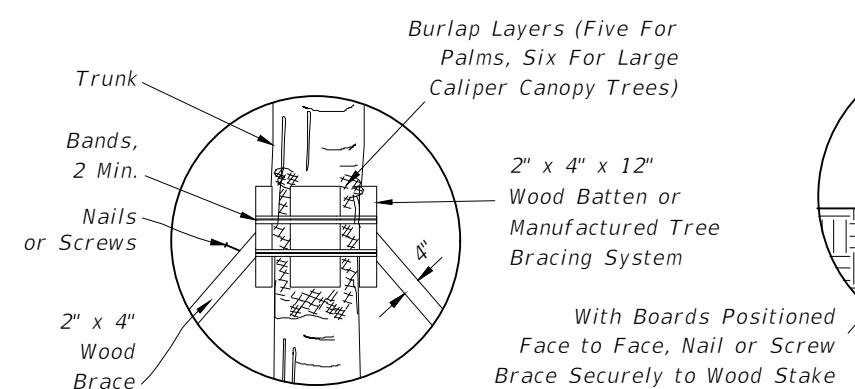


### 2 1/2" TO 6" CALIPER TREE PLANTING



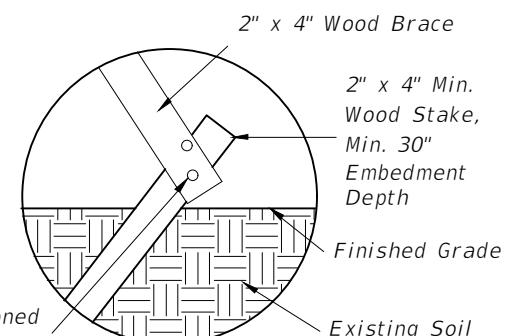
NOTE: May be used on large caliper canopy trees, 6" or larger, adjust banding every 6 months or as needed (for fast growing species) to prevent girdling.

### PALM PLANTING



NOTE: Install bands and couplings that are rated a min. 900lb. tensile strength, and are corrosion and UV resistant.

### DETAIL "A"



NOTE: Stake Into Firm, Existing Soil.

### DETAIL "B"

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

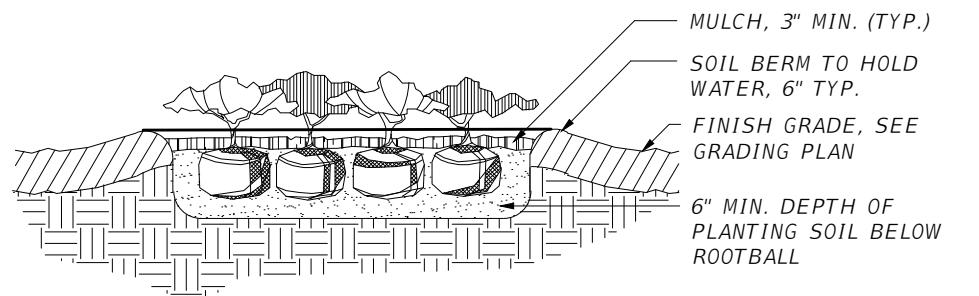
KEITH OROPEZA, RLA  
LICENSE #LA0001023  
GAI CONSULTANTS, INC.  
618 E. SOUTH STREET - SUITE 700  
ORLANDO, FL 32801

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION  
ROAD NO. COUNTY FINANCIAL PROJECT ID  
SR 5 MONROE 450501-1-74-01

### LANDSCAPE DETAILS

## GENERAL NOTES:

1. Staking guidelines are based on standard horticultural requirements and are provided for plant establishment purposes only. Details not intended to apply when bracing is intended to address safety considerations. When bracing for safety, refer to Designer generated signed and sealed details. These guidelines are not intended to apply when the tree or palm is within falling distance of a roadway, pedestrian or bicycle route, under extreme wind loads, non-standard soil properties, non-standard plant dimensions, or when rootball is anticipated to be greater than 4 feet diameter and planted on 1:3 slope or steeper.
2. All dimensions 6" and less are exaggerated for illustrative purposes only. Dimensions shown for wood materials are nominal. Slopes shown are Vertical:Horizontal
3. Remove plant containers prior to planting. Remove a minimum of the top 1/3 of burlap, fabric, or wire mesh for plants not grown in containers.
4. Allow no more than 1" of soil to cover the uppermost root on all trees. Set the top of root ball 1"-2" above finish grade after settling and set plumb to the horizon.
5. Backfill with loosened existing soil or as shown in the plans. Remove rocks, sticks, or other deleterious material greater than 1" in any direction prior to backfilling. Water and tamp to remove air pockets. Contact Engineer prior to planting if existing soils contain excessive sand, clay, or other material not conducive to proper plant growth.
6. Construct soil rings at the outer edge of the planting pit with a height of 3" and gently sloping sides unless a permanent, subsurface or drip irrigation system is provided. Do not pile soil on top of rootball.
7. Construct a 2"-3" deep layer of mini pine bark nugget mulch in all planting beds and tree wells. No cypress mulch shall be utilized in this project.
8. Install guying with minimum 1" wide nylon or polypropylene straps with a minimum 600 lb. break strength. Check straps monthly and adjust as required to eliminate girdling of tree. Locate all wood stakes beyond the edge of soil ring in existing soil and embed a minimum of 18" below finished grade unless otherwise specified. Alternate tree bracing and guying systems specified or approved by the Engineer may be used in lieu of the tree bracing and guying methods detailed on the Index.
9. Use 2" X 2" minimum wood stakes unless otherwise shown in the Plans or directed by the Engineer. Use wood meeting #2 Common or better in accordance with the Standard Grading Rules for Southern Pine. Use 4"x4" for larger palms.
10. Drive stakes into existing, undisturbed soil. Localized compaction may be provided to prevent displacement of the stakes for previously disturbed existing soils that do not provide sufficient stability.
11. Provide 6" topsoil (organic material) Rototilled into top 6" of existing soil.



NOTE: CONTRACTOR SHALL ASSURE  
PERCOLATION OF ALL PLANTING PITS /  
BEDS PRIOR TO INSTALLATION

## SHRUB & GROUNDCOVER PLANTING

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KEITH OROPEZA, RLA  
LICENSE #LA0001023  
GAI CONSULTANTS, INC.  
618 E. SOUTH STREET - SUITE 700  
ORLANDO, FL 32801

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	450501-1-74-01

## LANDSCAPE DETAILS

SHEET NO.  
LD-10

# STAFF REPORT

DATE: February 2, 2023

RE: US1 Triangle (permit application # T2023-0023)

FROM: Karen DeMaria, City of Key West Urban Forestry Manager

An application was received requesting the removal of (2) Geiger and (1) Sapodilla tree. A site inspection was done and documented the following:

Tree Species: Geiger (*Cordia sebestena*)



Photo showing location of Geiger trees.

Tree #1



Photo of Tree #1 showing whole tree and location.



Photo of whole tree.



Photo of tree canopy.

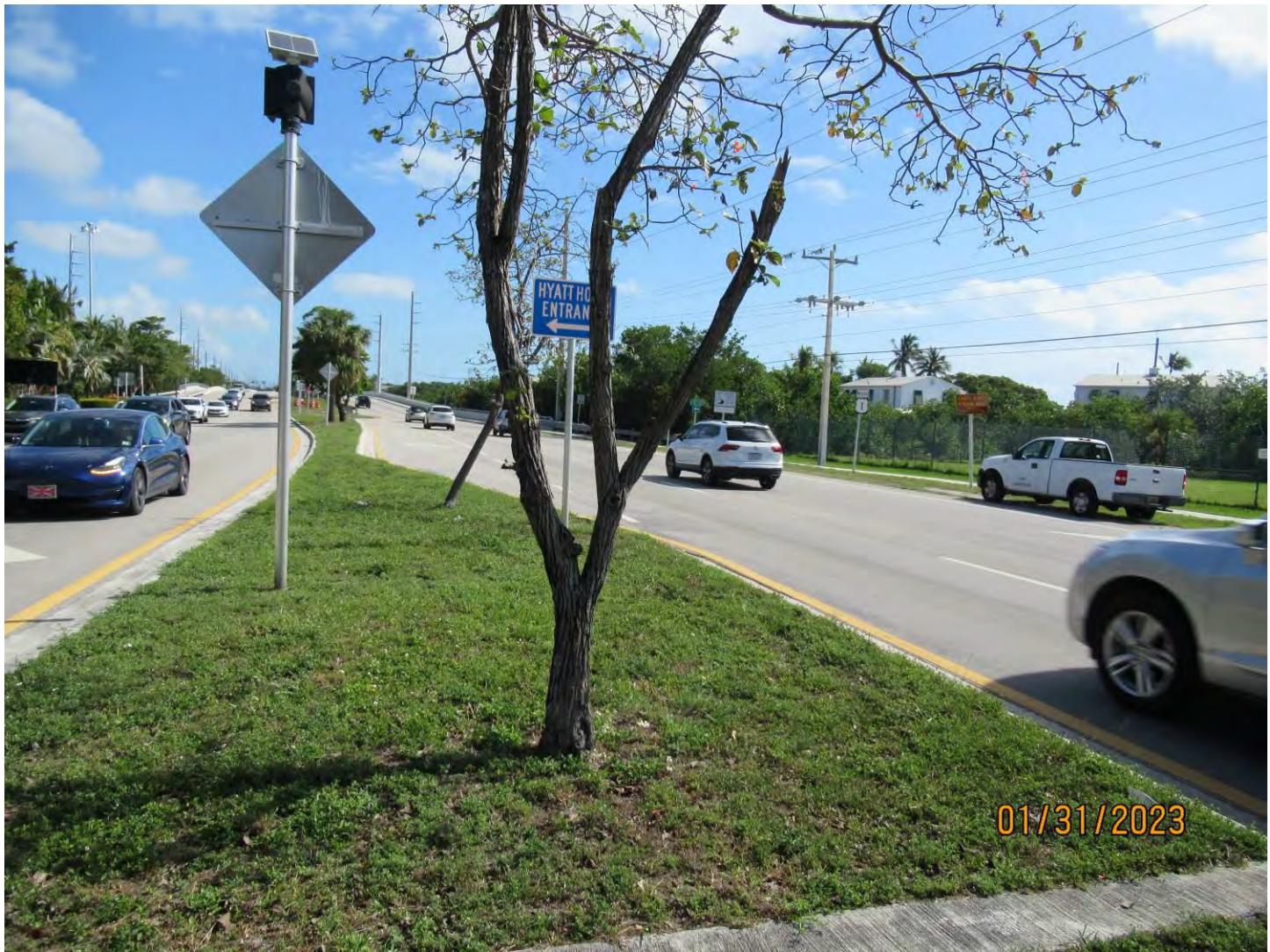


Photo showing trunks and base of tree.

Diameter: 7.6"

Location: 80% (in a median planter area, very visible)

Species: 100% (on protected tree list)

Condition: 60% (overall condition is fair-appears to be having a common health issue with bugs that is usually easily treatable)

Total Average Value = 80%

Value x Diameter = 6 replacement caliper inches

Tree #2



Photo of whole tree, view 1.



Photo of whole tree, view 2.



Photo of  
tree  
canopy.

01/31/2023



Photo of  
trunk and  
base of tree.

01/31/2023

Diameter: 4.7"

Location: 40% (growing in planter media, very visible, growth close to high traffic area)

Species: 100% (on protected tree list)

Condition: 50% (overall condition is fair to poor, poor structure with sideways growth toward road, also appears to be impacted by bugs)

Total Average Value = 63%

Value x Diameter = 2.9 replacement caliper inches

Tree Species: Sapodilla (Manilkara zapota)

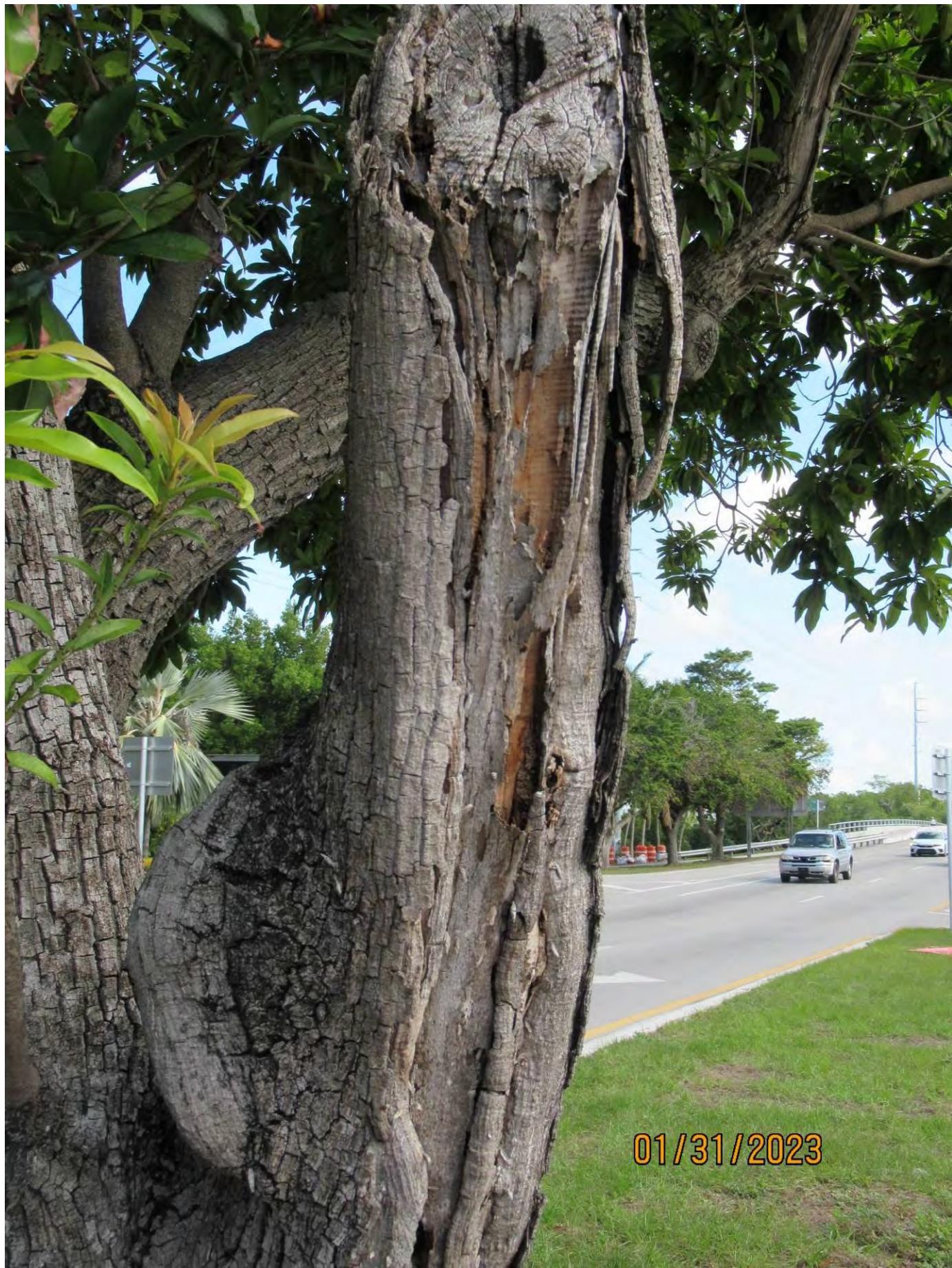


Photo showing location of tree in the median.



01/31/2023

Photo of base and trunks of tree, view 1.



01/31/2023

Close up photo of decay in one trunk.



01/31/2023

Photo of tree canopy, view 2.



Photo of whole tree, view 1.



01/31/2023

Photo of whole tree, view 2.



01/31/2023

Photo of base and trunks of tree, view 2.



Photo of  
tree canopy,  
view 2.



Photo of  
whole  
tree,  
view 3.

Diameter: 23.2"

Location: 70% (Growing in narrow planter median, very visible tree)

Species: 100% (on protected tree list)

Condition: 50% (overall condition is fair poor, lots of decay especially in one of the three main trunks, poor structure, good healthy leaf growth)

Total Average Value = 73%

Value x Diameter = 16.9 replacement caliper inches

A total of 25.8 caliper inches of approved trees is required to be planted if all requested trees are approved for removal. This project proposes to plant (2) Royal Poinciana, (1) Plumeria, (1) Apple Blossom, (1) Paradise tree, (1) Jamaican Caper, and 19 Christmas Palms. A total of 30 caliper inches of approved trees is being replanted as part of the proposed landscape plan.

Recommend approval of the removal of (2) Geiger trees and (1) Sapodilla tree and approval of the proposed landscape plan for the triangle area.

Below are photos of the rest of the median/triangle area:



Palms in this area are to remain.



Sapodilla tree to be removed and Sabal Palms to be transplanted.



Sabal Palms in this area to be transplanted.



Yellow  
Tabebuia  
and Sabal  
Palms to  
remain.

01/31/2023



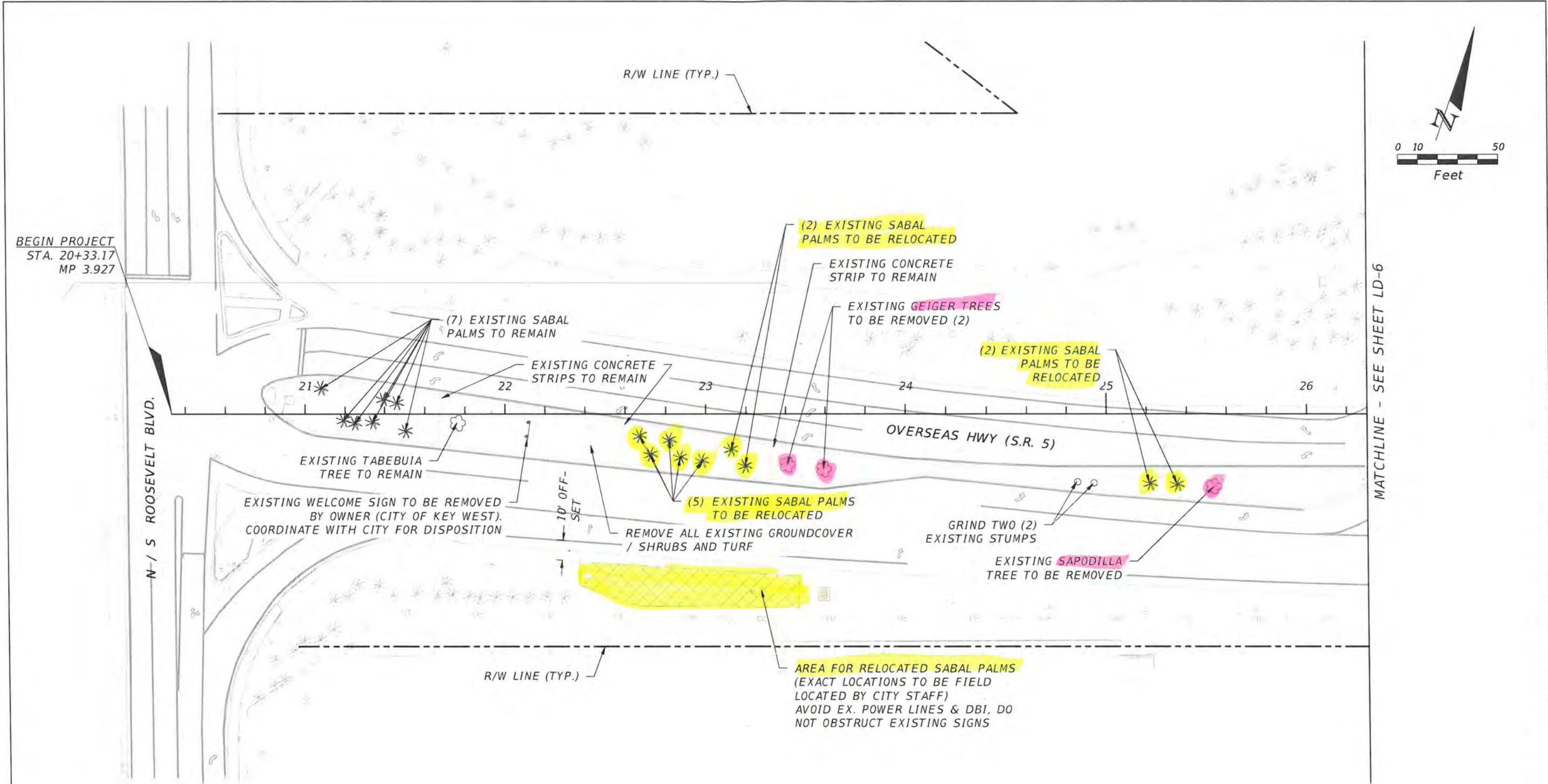
Area where  
Sabal Palms are  
to be  
transplanted  
(Area 1).

01/31/2023



01/31/2023

Area where Sabal Palms are to be transplanted (Area 2).



REVISIONS		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION

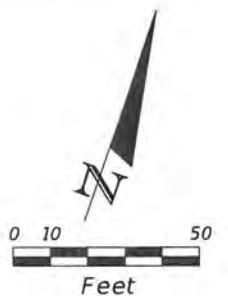
KEITH OROPEZA, RLA  
LICENSE #LA0001023  
GAI CONSULTANTS, INC.  
618 E. SOUTH STREET - SUITE 700  
ORLANDO, FL 32801

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

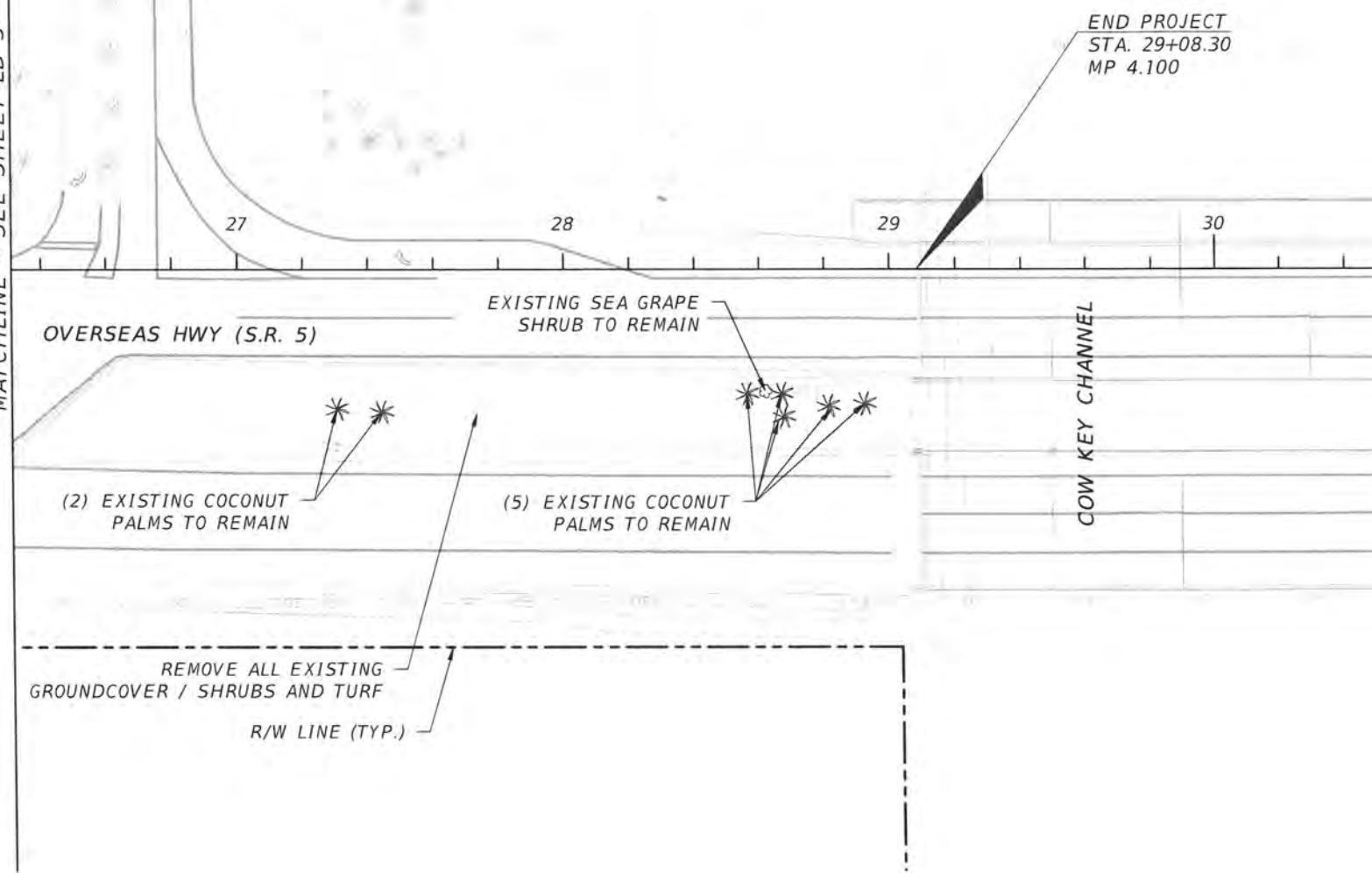
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	450501-1-74-01

### TREE DISPOSITION PLANS

SHEET NO.  
LD-5



MATCHLINE - SEE SHEET LD-5



THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

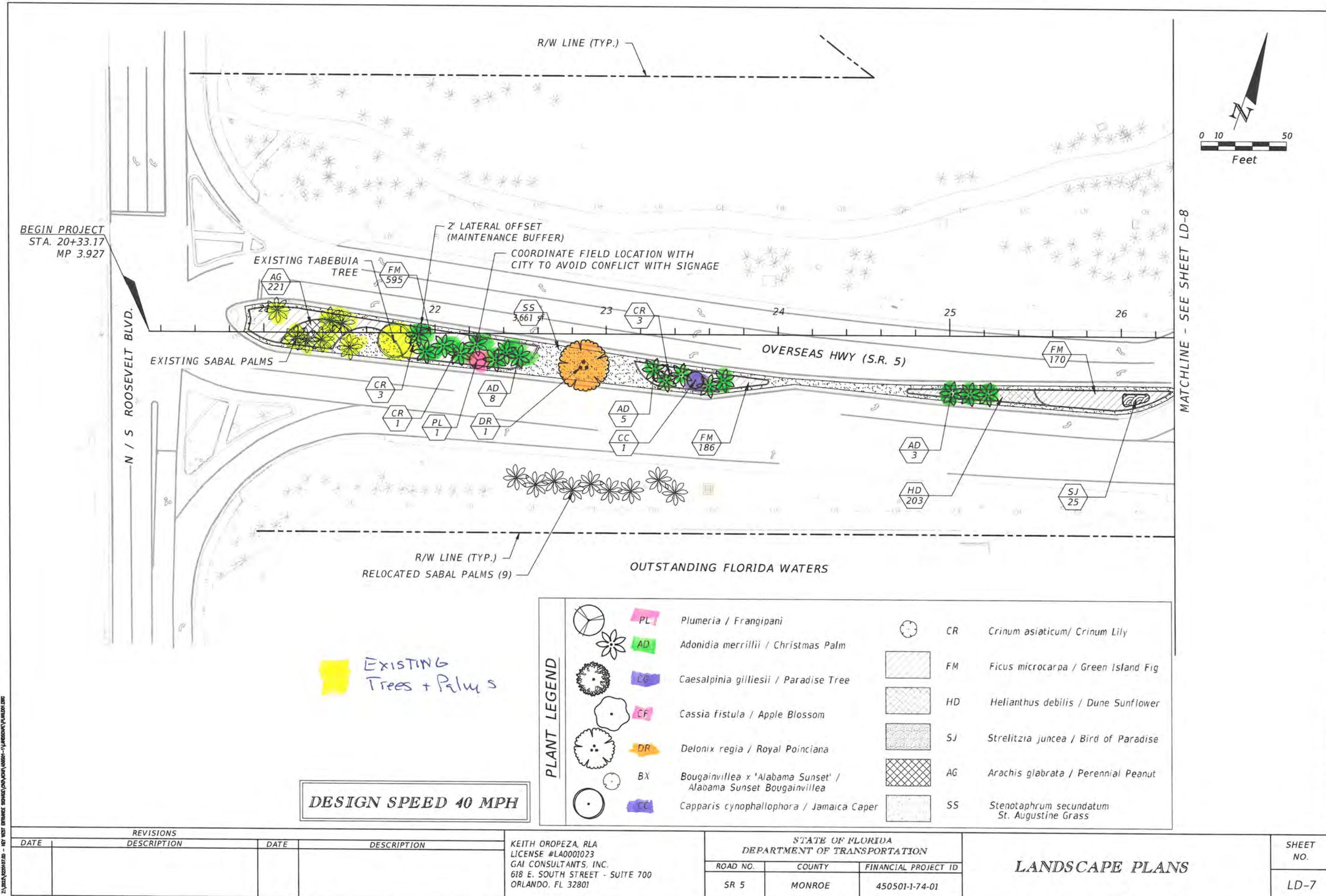
REVISIONS		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION

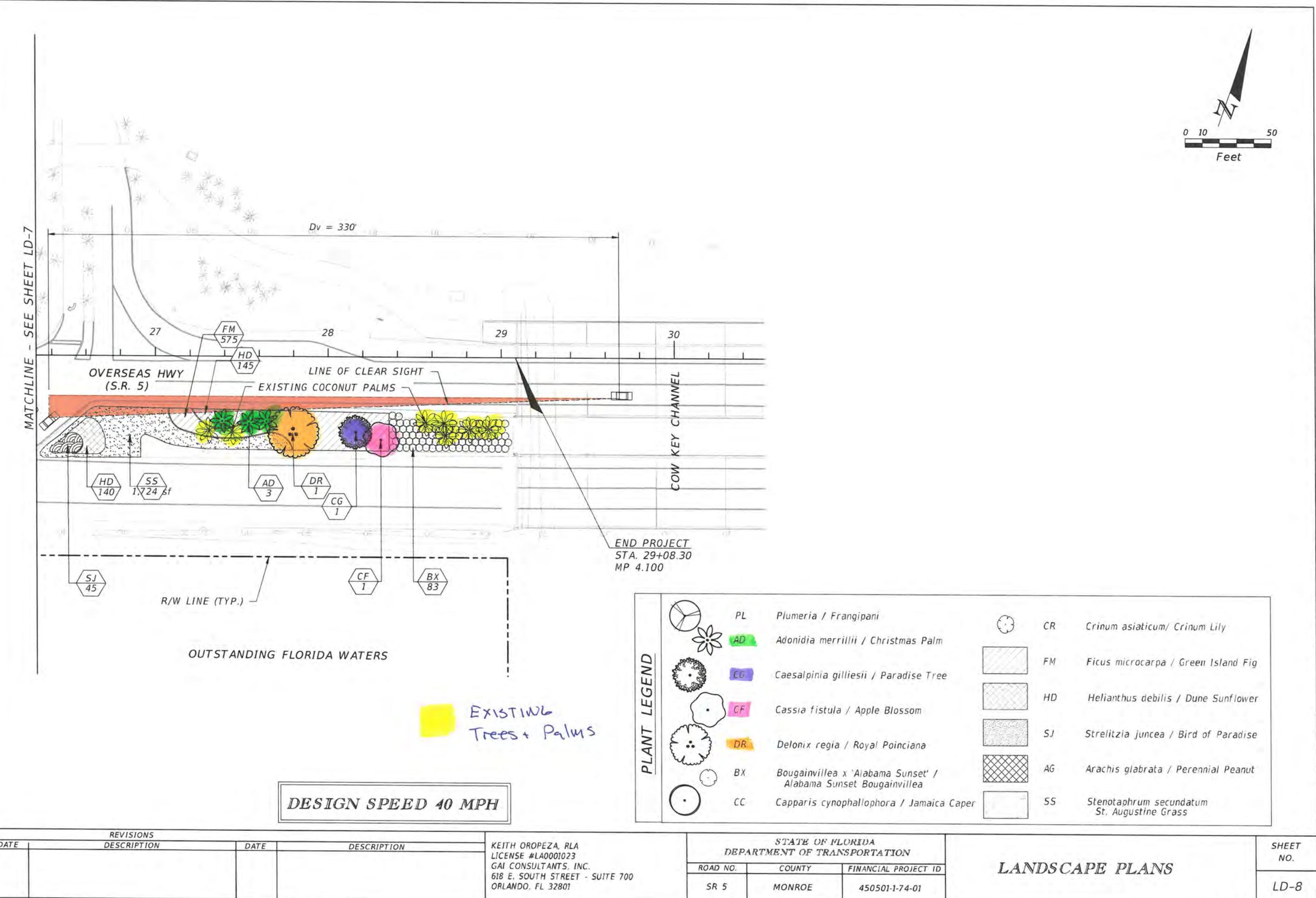
KEITH OROPEZA, RLA  
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DEPARTMENT OF TRANSPORTATION  
ROAD NO. COUNTY FINANCIAL PROJECT ID  
SR 5 MONROE 450501-1-74-01

TREE DISPOSITION PLANS

SHEET NO.  
LD-6





# ADDITIONAL INFORMATION



## *Florida Department of Transportation*

RON DESANTIS  
GOVERNOR

1000 NW 111<sup>th</sup> Avenue  
Miami, Florida 33172

JARED W. PERDUE, P.E.  
SECRETARY

### **ERC LANDSCAPE PLAN REVIEW FOR FDOT BEAUTIFICATION GRANT CONTRACTS**

Date: 2/3/2023  
To: Karen Wilman, RA, LEED AP  
From: Monica Rodriguez  
Copies: District Landscape Manager  
FM: 450501-1-74-01  
State Rd: SR 5/ (US-1)  
Road ID: 90010000  
Mile Post: From 3.927 To 4.100  
Agency: City of Key West  
LA Firm: GAI Consultants, Inc  
LAOR: Keith Oropeza, RLA  
Project: SR5/US-1 From South Roosevelt Boulevard to Cow Key Bridge Landscape  
Re: ERC Plan Review- Conditional Approval  
Status: Plan Review – Conditional Approval

The signed and sealed Landscape Plans dated 10/31/2022 are conditionally approved, all previous comments have been completed and there are no further comments; however, a FDOT Beautification Grant Contract including Memorandum Maintenance of Agreement (MMOA) with the City of Key West is required, and the Notice to Proceed cannot be issued until the Contract and MMOA process has been completed and executed.

If you have any questions please contact Monica Rodriguez, DLM at 305-470-5452 or  
[monica.rodriguez@dot.state.fl.us](mailto:monica.rodriguez@dot.state.fl.us)

# **Application**

RECEIVED  
JAN 26 2023  
KA



Canopy removal T2023-0023

palm transplant T2023-0024

## Tree Permit Application

Please Clearly Print All Information unless indicated otherwise. Date: January 25, 2023

**Tree Address** US 1 Triangle Median

**Cross/Corner Street**

**List Tree Name(s) and Quantity** 2 Orange Gieger, 1 Sapodilla, 16 sabal palms for transplant

**Species Type(s) check all that apply**  Palm  Flowering  Fruit  Shade  Unsure

**Reason(s) for Application:**

Remove  Tree Health  Safety  Other/Explain below

Transplant  New Location  Same Property  Other/Explain below

Heavy Maintenance Trim  Branch Removal  Crown Cleaning/Thinning  Crown Reduction

**Additional Information and Explanation** Part of the design effort for landscape beautification at the Triangle median along US 1 and Roosevelt Blvd.

**Property Owner Name**

DOT- Contact: Monica Rodriguez

**Property Owner email Address**

Monica.Rodriguez@dot.state.fl.us

**Property Owner Mailing Address**

1000 NW 111th Ave, Room 6251

**Property Owner Phone Number**

305 470 5452

**Property Owner Signature** See attached letter from DOT for project approval

**Representative Name**

Keith Oropeza/Karen DeMaria/ Karen Wilman

**Representative email Address**

k.oropeza@gaconsultants.com

**Representative Mailing Address**

GA Consultants, 618 E South Street, #700 Orlando, FL 32801

**Representative Phone Number**

407 222 9583

**NOTE:** A Tree Representation Authorization form must accompany this application if someone other than the owner will be representing the owner at a Tree Commission meeting or picking up an issued Tree Permit. Tree Representation Authorization form attached

**Sketch location of tree in this area including cross/corner Street**

**Please identify tree(s) with colored tape**

See submitted plans

CL00035

2.0  
1.6 dbh  
7.6 dbh  
\* 2.0 dbh  
1.3 dbh  
1.7 dbh  
Sabal 2.0  
3.7 dbh  
23.2 dbh

If this process requires blocking of a City right-of-way, a separate ROW Permit is required. Please contact 305-809-3740.

## Karen DeMaria

---

**From:** Karen Wilman  
**Sent:** Wednesday, January 25, 2023 5:09 PM  
**To:** Karen DeMaria  
**Subject:** RE: [EXTERNAL] RE: [EXTERNAL] Triangle Tree Commission Application  
**Attachments:** Tree Permit Application\_revised.pdf

Karen D.

Attached is the revised form. I spoke with my DOT contact Monica and she will be sending me a letter that states the drawings and project is approved by the State with her signature. Please confirm that will work for this application.

Once approved, does this project need to pay for a permit with the City of Key West?

Let's talk tomorrow if you have any question.

Thanks,

*Karen Wilman*  
*Senior Construction Manager*  
*Engineering Department*  
*City of Key West*  
*(305) 809-3963*  
[Karen.wilman@cityofkeywest-fl.gov](mailto:Karen.wilman@cityofkeywest-fl.gov)

**From:** Karen DeMaria <[kdemaria@cityofkeywest-fl.gov](mailto:kdemaria@cityofkeywest-fl.gov)>  
**Sent:** Wednesday, January 25, 2023 3:29 PM  
**To:** Keith Oropeza <[K.Oropeza@gaconsultants.com](mailto:K.Oropeza@gaconsultants.com)>  
**Cc:** Karen Wilman <[karen.wilman@cityofkeywest-fl.gov](mailto:karen.wilman@cityofkeywest-fl.gov)>  
**Subject:** RE: [EXTERNAL] RE: [EXTERNAL] Triangle Tree Commission Application

Well somebody needs to get the FDOT signatures on the proper forms or this item will not be heard by the Tree Commission. I can not accept an application unless the owner has given approval.

Sincerely,

Karen

**From:** Keith Oropeza <[K.Oropeza@gaconsultants.com](mailto:K.Oropeza@gaconsultants.com)>  
**Sent:** Wednesday, January 25, 2023 3:24 PM  
**To:** Karen DeMaria <[kdemaria@cityofkeywest-fl.gov](mailto:kdemaria@cityofkeywest-fl.gov)>  
**Cc:** Karen Wilman <[karen.wilman@cityofkeywest-fl.gov](mailto:karen.wilman@cityofkeywest-fl.gov)>  
**Subject:** [EXTERNAL] RE: [EXTERNAL] Triangle Tree Commission Application

## Karen DeMaria

---

**From:** Keith Oropeza <K.Oropeza@gaiconsultants.com>  
**Sent:** Wednesday, January 25, 2023 2:30 PM  
**To:** Karen DeMaria  
**Cc:** Karen Wilman  
**Subject:** [EXTERNAL] Triangle Tree Commission Application  
**Attachments:** Tree Permit Application.pdf; 450501-1-74-01\_Landscape Plans\_2022-10-31\_FINAL.pdf

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Karen,

Attached please find the landscape drawings approved by FDOT for submittal to tree commission.  
I've attached an application as well.

Thanks, KO



**Keith Oropeza, PLA, ASLA**  
Landscape Architecture Director

618 E. South Street, Suite 700  
Orlando, Florida 32801  
T 407.423.8398 | D 321.445.8034 | M 407.222.9583  
[k.oropeza@gaiconsultants.com](mailto:k.oropeza@gaiconsultants.com)

*A GAI Consultants, Inc. Service Group*