

CITY OF KEY WEST, FLORIDA

CONSTRUCTION PLANS

FINANCIAL PROJECT ID 450501-1-74-01

MONROE COUNTY (9001-0000)

U.S. 1/ S.R. 5

LANDSCAPE PLANS

INDEX OF LANDSCAPE PLANS

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LD-9	LANDSCAPE DETAILS
LD-10	LANDSCAPE DETAILS

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

Sunshine811

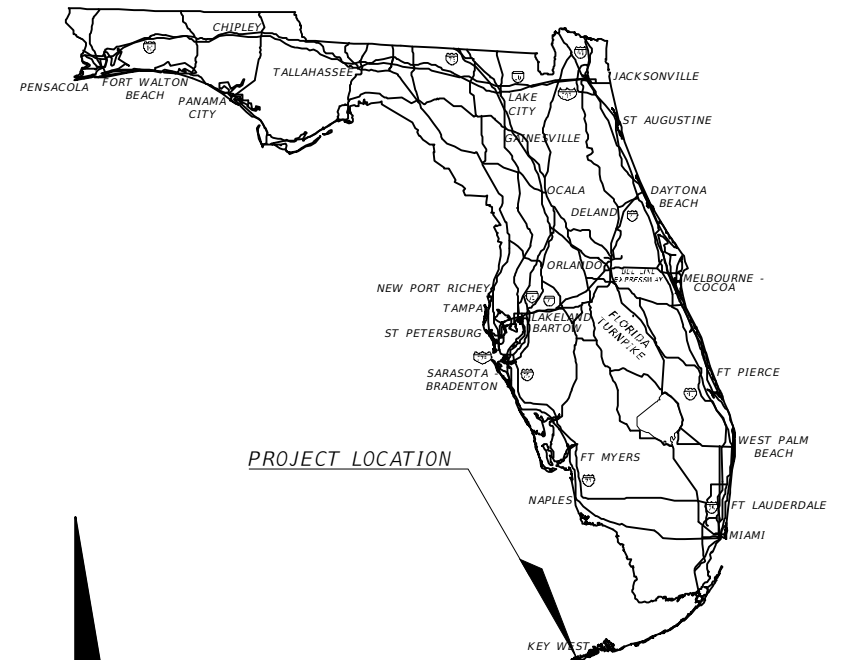
Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.  
Check positive response codes before you dig!

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 a available at the following website: <http://www.fdot.gov/design/dtandardplans>

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>



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

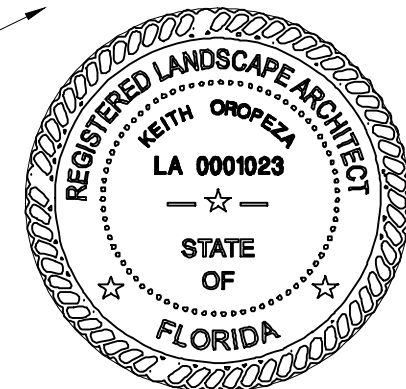
FDOT PROJECT MANAGER:

MAITE MEDINA

FINAL PLANS  
10-31-22



To Miami



END PROJECT  
STA. 29+08.30  
MP 4.100

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

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

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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	Sabal palmetto	Sabal Palm	existing	N/A	As Shown	relocated trees	EA	9						9	
580-1-2	Large	AD	Adonidia merrillii	Christmas Palm	B&B	N/A	As Shown	100 gal; 12-14 GW	EA	16		3				19	
580-1-2	Large	CC	Capparis cynophallophora	Jamaica Caper	8' x 4'; Full	N/A	As Shown	65 gal.	EA	1						1	
580-1-2	Large	CG	Caesalpinia gilliesii	Paradise Tree	14'-16'x6	N/A	As Shown	65 gal; 4" cal.	EA			1				1	
580-1-2	Large	CF	Cassia fistula	Apple Blossom	12'-14'x6	N/A	As Shown	65 gal; 4" cal.	EA			1				1	
580-1-2	Large	CR	Crinum asiaticum	Crinum Lily		N/A	As Shown	7 gal.	EA	7						7	
580-1-2	Large	DR	Delonix regia	Royal Poinciana	14'-16'x6	N/A	As Shown	65 gal; 4" cal.	EA	1		1				2	
580-1-2	Large	PL	Plumeria	Frangipani	7' x 4'	N/A	As Shown	45 gal; 3" cal.	EA	1						1	
580-1-1	Small	BX	Bougainvillea 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	Ficus microcarpa '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	Helianthus debilis	Dune Sunflower	14"x16"; Full Pot	N/A	18" o.c.	3 gal	EA	203		285				488	
580-1-1	Small	SJ	Strelitzia juncea	Bird of Paradise	Full Pot	N/A	24" o.c.	3 gal	EA	25		45				70	
580-1-1	Small	AG	Arachis glabrata	Perennial Peanut	4"-6" HT. X 12"-18" Sprd.	N/A	18" o.c.	1 gal	EA	221						221	
570-1-2	Turf	SS	Stenotaphrum secundatum	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			TABULATION OF QUANTITIES	SHEET NO.
			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			SR 5	MONROE	450501-1-74-01		LD-3

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

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- 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 course 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:**

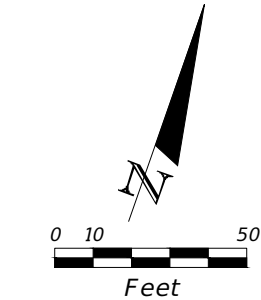
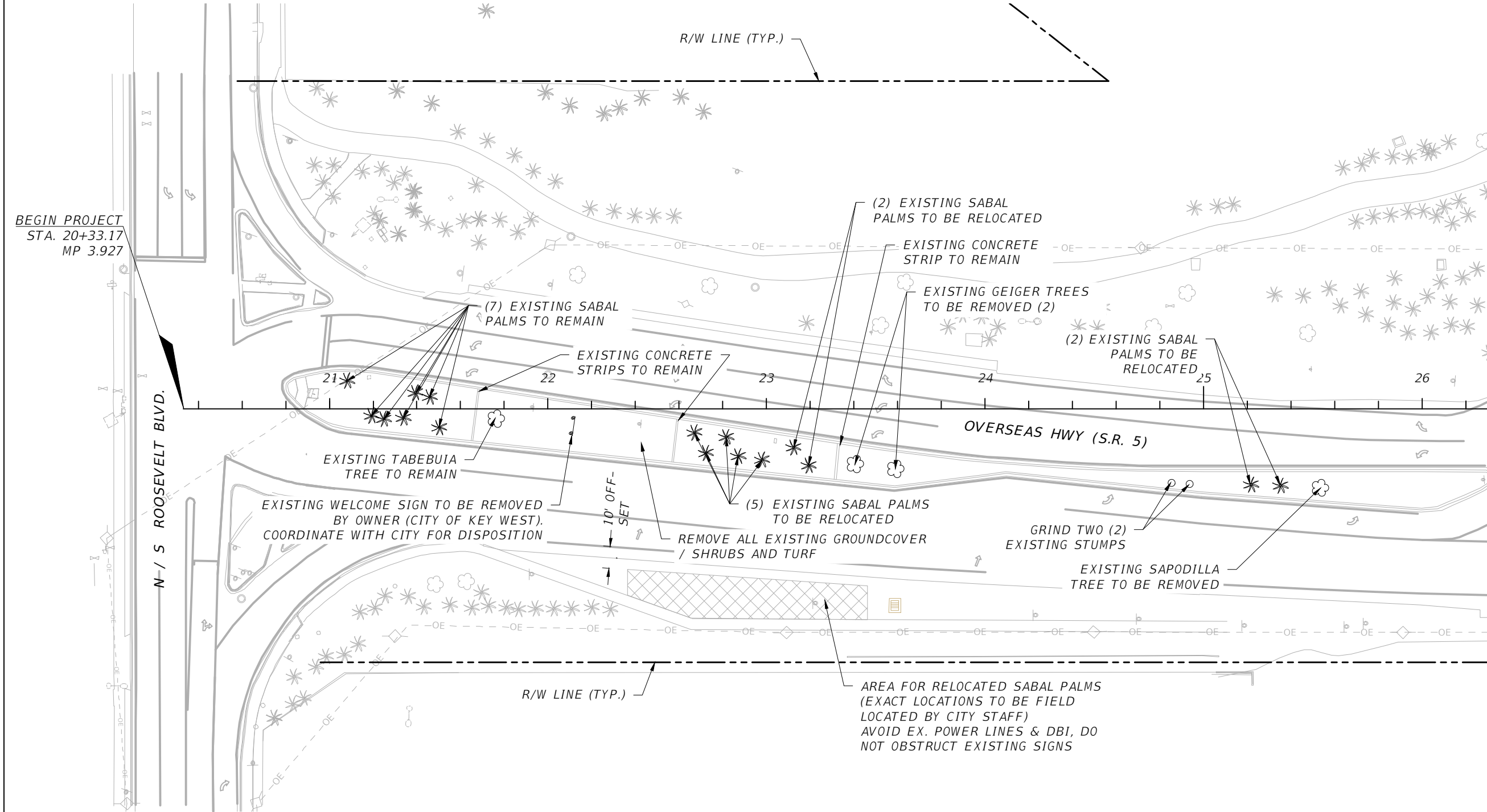
*The following Federal and State listed animal species could inhabit or migrate through the construction area: Roseate Tern, Piping Plover, American Crocodile, Stock Island Tree Snail, and Red Knot. The contractor shall comply with all Federal and State requirements regarding endangered and threatened 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.volenec@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 | rdelostrinos@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:**
- |  |   |
|--|---|
| FDOT DISTRICT 6 PERMITTING<br>Loren Marquez, P.E., C.B.I.<br>Consultant (LARS Engineering)<br>Ferrovia Services/FDOT - District Six<br>Email 1: lmarquez@larseng.com<br>Email 2: loren.marquez@dot.state.fl.us<br>Office: (305) 631-2594; Mobile: (305) 469-6162 | KWDOT<br>Rod Delostrinos, Director of Transportation<br>City of Key West<br>Office: 305-809-3918  |
| KEYS ENERGY SERVICES<br>Dan Sabino<br>Work 305-295-1041; Cell 305-304-4556   | ATT<br>Dan Juliana, Network Manager /<br>Lead Construction & Engineering<br>ACE, South Florida Engineering and Construction<br>Florida Keys |
| MONROE COUNTY<br>Judith S. Clarke, P.E., Director of Engineering Services<br>Monroe County<br>1100 Simonton Street<br>Key West, Florida 33040  | COMCAST<br>Michael Martin, Fielder<br>Lightspeed Construction Group<br>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.*

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-4
					SR 5	MONROE	450501-1-74-01		



BEGIN PROJECT  
STA. 20+33.17  
MP 3.927

N / S ROOSEVELT BLVD.

MATCHLINE - SEE SHEET LD-6

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

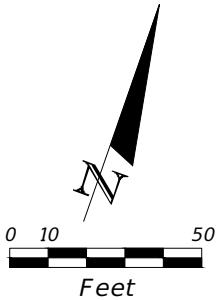
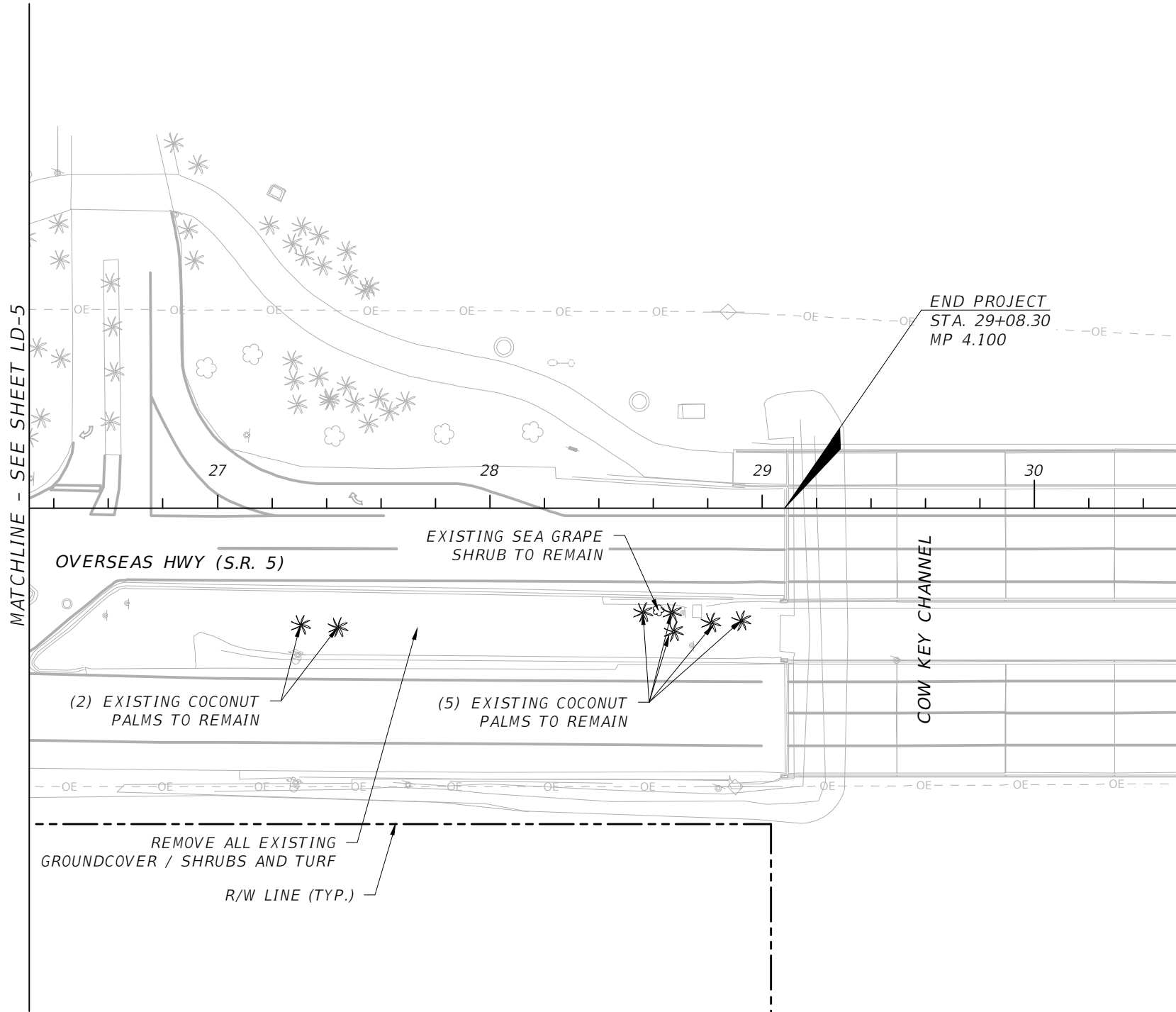
KEITH OROPEZA, RLA  
LICENSE #LA0001023  
GAI CONSULTANTS, INC.  
618 E. SOUTH STREET - SUITE 700  
ORLANDO, FL 32801

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

TREE DISPOSITION PLANS	

SHEET NO.
LD-5

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REVISIONS			
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GAI CONSULTANTS, INC.  
618 E. SOUTH STREET - SUITE 700  
ORLANDO, FL 32801

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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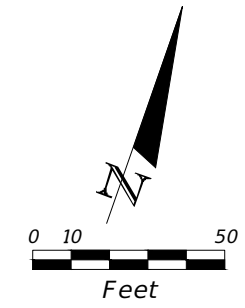
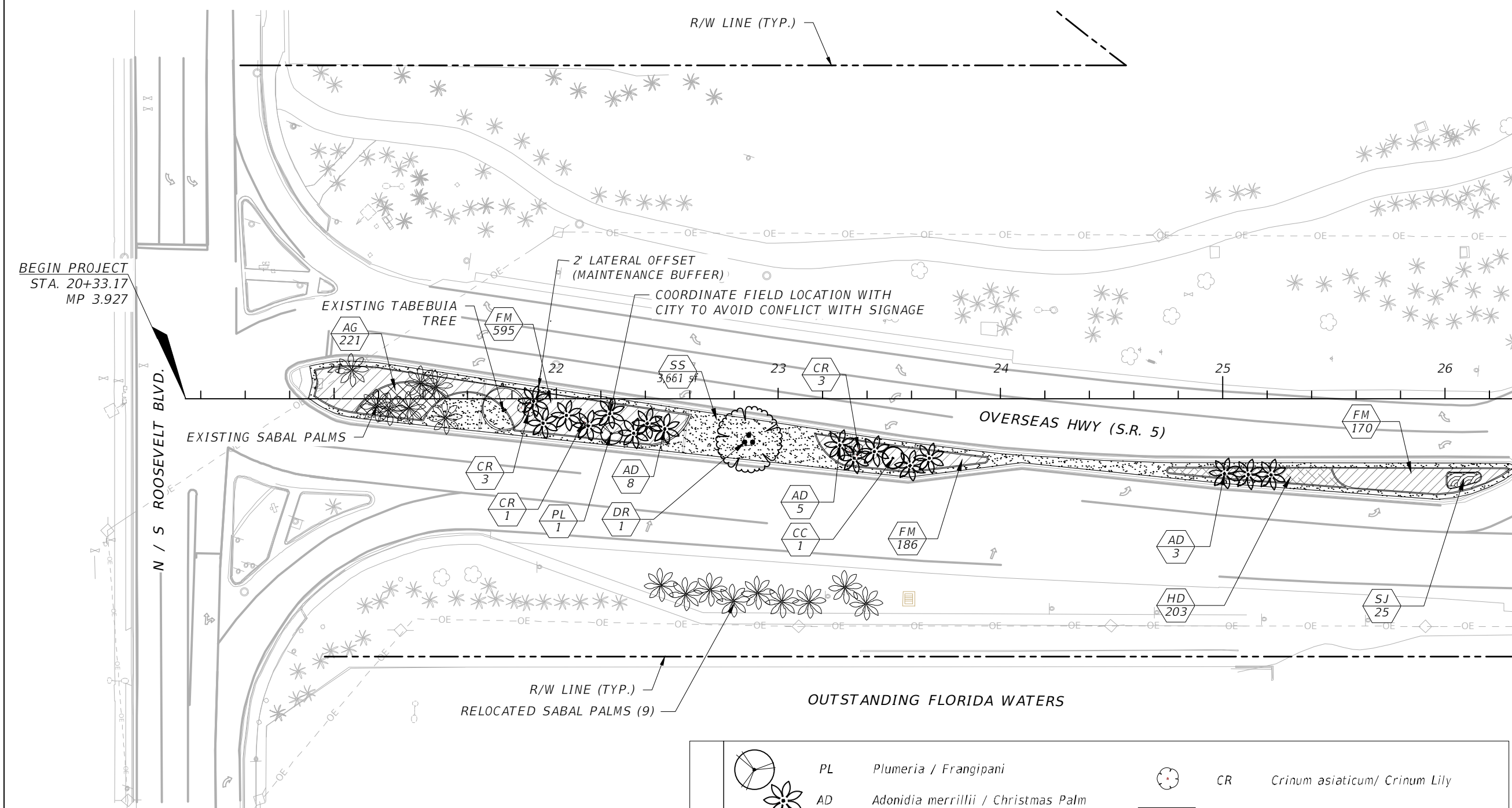
TREE DISPOSITION PLANS	
LD-6	

SHEET NO.
LD-6












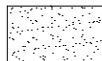

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PLANT LEGEND

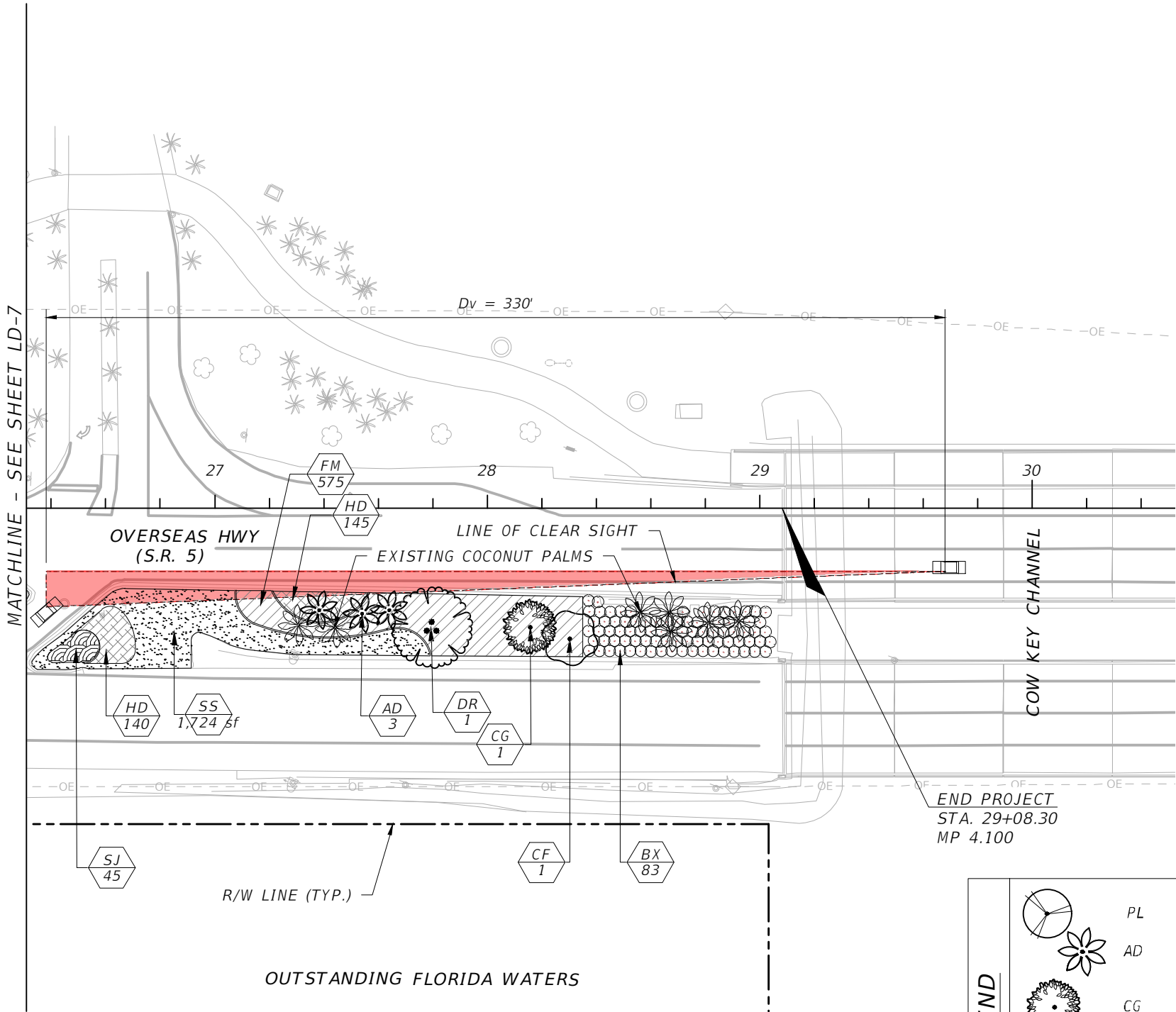
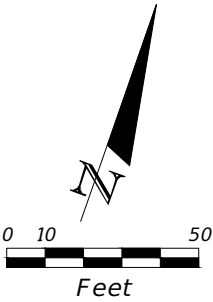
	PL	<i>Plumeria</i> / Frangipani		CR	<i>Crinum asiaticum</i> / <i>Crinum</i> Lily
	AD	<i>Adonidia merrillii</i> / Christmas Palm		FM	<i>Ficus microcarpa</i> / Green Island Fig
	CG	<i>Caesalpinia gilliesii</i> / Paradise Tree		HD	<i>Helianthus debilis</i> / Dune Sunflower
	CF	<i>Cassia fistula</i> / Apple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

DESIGN SPEED 40 MPH

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLANS	SHEET NO.  LD-7
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				SR 5	MONROE	450501-1-74-01		

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DESIGN SPEED 40 MPH

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

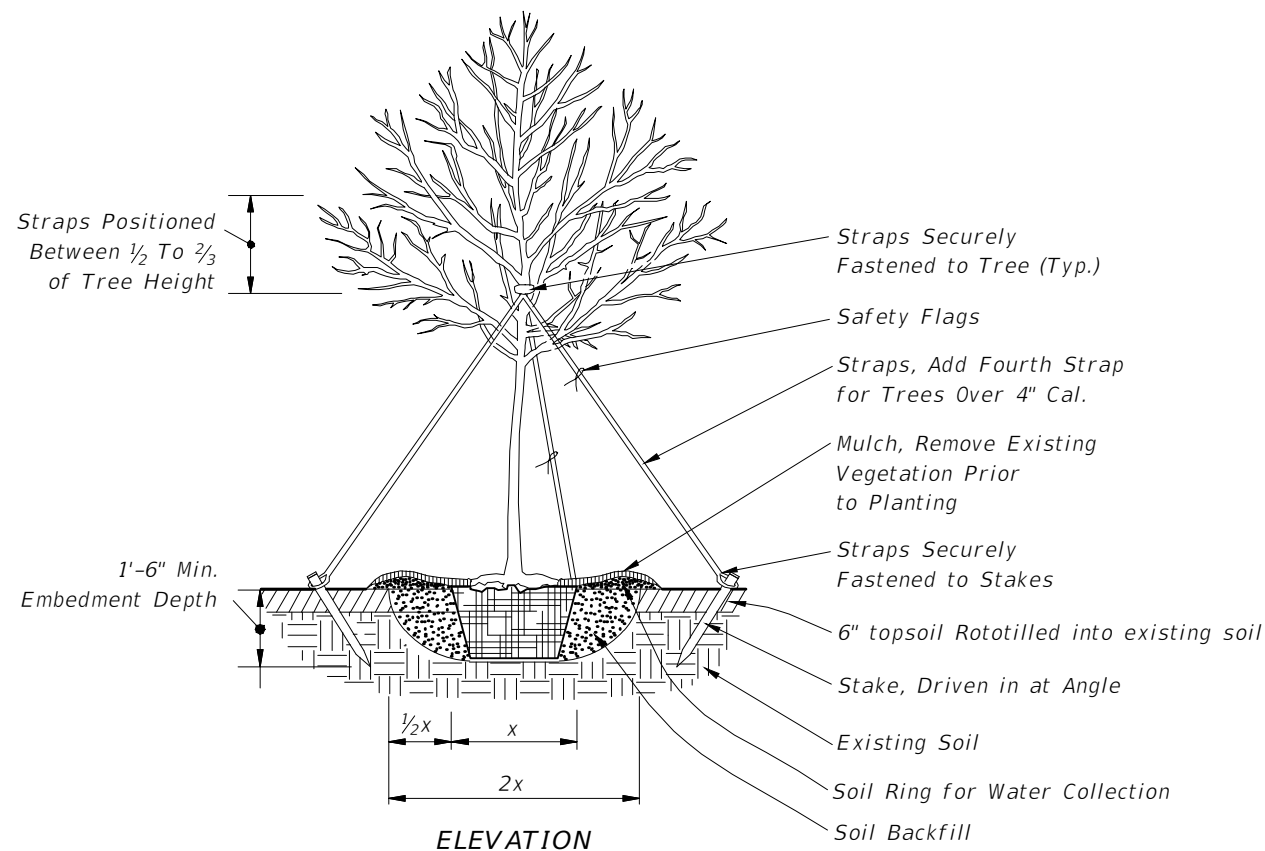
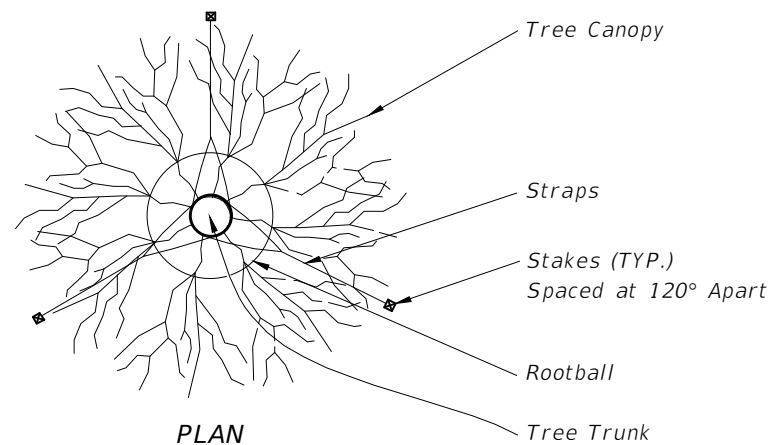
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KEITH OROPEZA, RLA LICENSE #LA0001023 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	LANDSCAPE PLANS	SHEET NO.
	ROAD NO.	COUNTY	
	SR 5	MONROE	LD-8
FINANCIAL PROJECT ID			
450501-1-74-01			

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

2 x 4 Wood Braces (Minimum of Three Wood Braces) Spaced at 120° Apart. Saw Cut Ends at Proper Angle to Allow for Flush Connection to Batten. Nail or Screw Wood Braces Securely to Wood Batten or Manufactured Tree Bracing

For Palms Over 24' Clear Trunk, Increase Wood Braces to 4" x 4" Minimum, Use a Minimum of Four Braces With Minimum Length of 16' Spaced

Mulch, Remove Existing Vegetation Prior to Planting

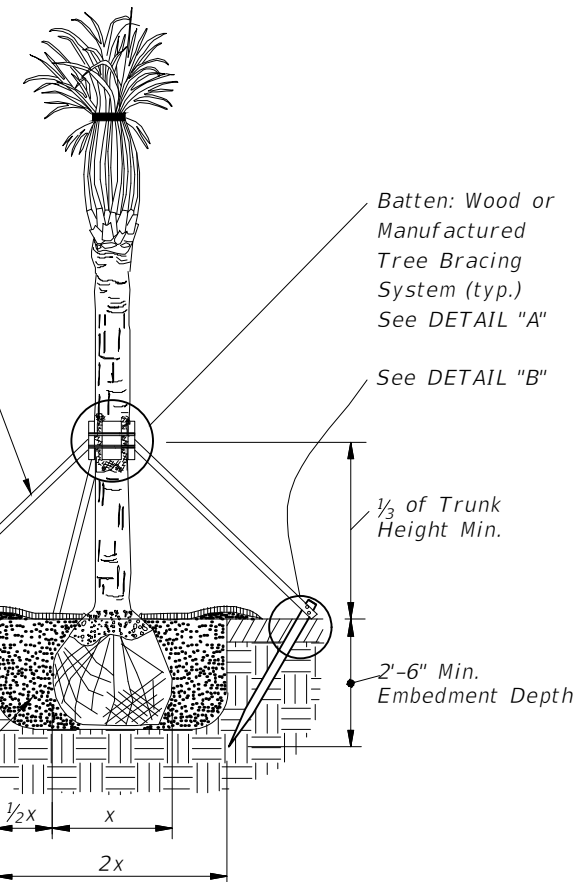
6" topsoil Rototilled into existing soil

Soil Ring for Water Collection

Wood Stake (Typ.)

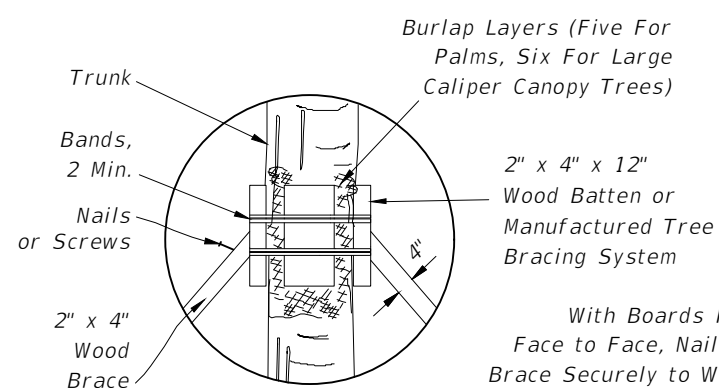
Existing Soil

Soil Backfill

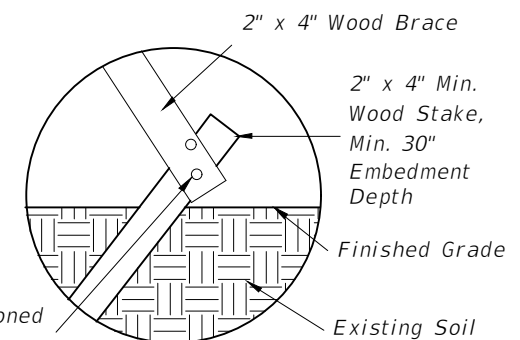


NOTE: May be used on large caliper canopy trees, 6" or larger, adjust banding every 6 months or as needed (for fast growing species) to prevent girdling.

### PALM PLANTING



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



NOTE: Stake Into Firm, Existing Soil.

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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-9**

Jennifer Webster

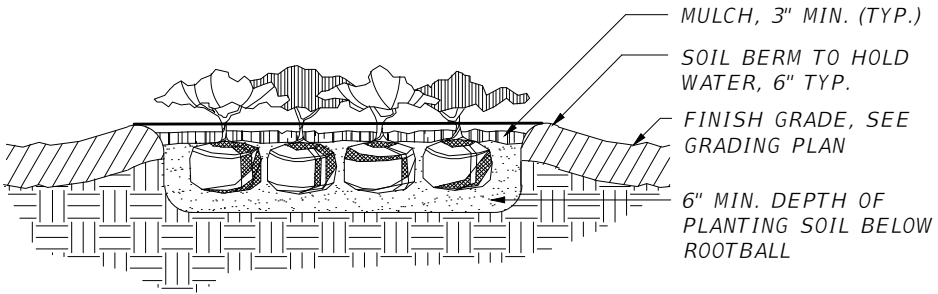
10/31/2022 12:15:19 PM

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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

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REVISIONS				KEITH OROPEZA, RLA LICENSE #LA0001023 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5	MONROE	450501-1-74-01		LD-10

Jennifer Webster

10/31/2022 12:15:25 PM

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# 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.



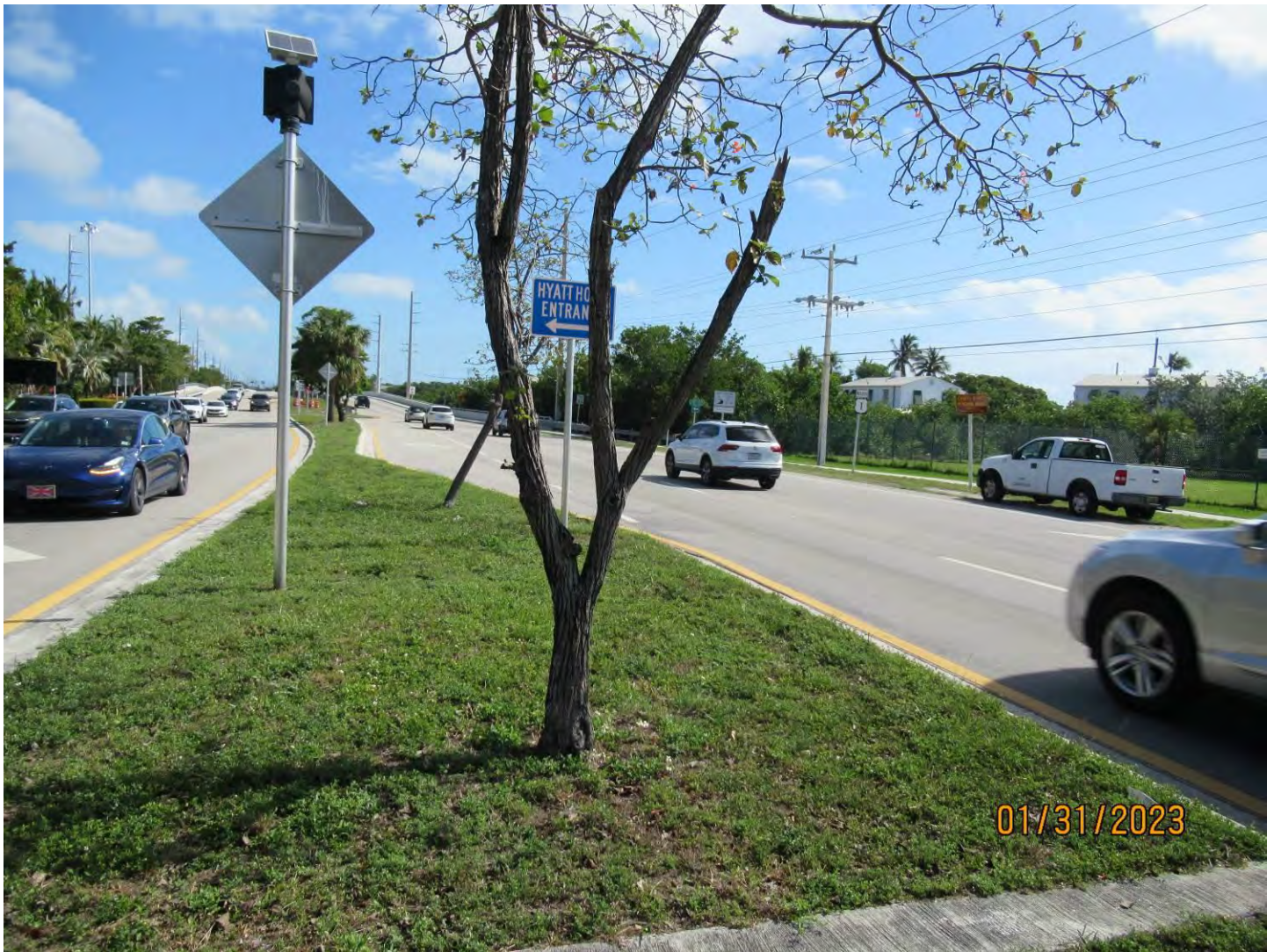


Photo showing trunks and base of tree.

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.



Photo of  
trunk and  
base of tree.



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.





Photo of base and trunks of tree, view 1.





Close up photo of decay in one trunk.





Photo of tree canopy, view 2.





Photo of whole tree, view 1.





Photo of whole tree, view 2.





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.

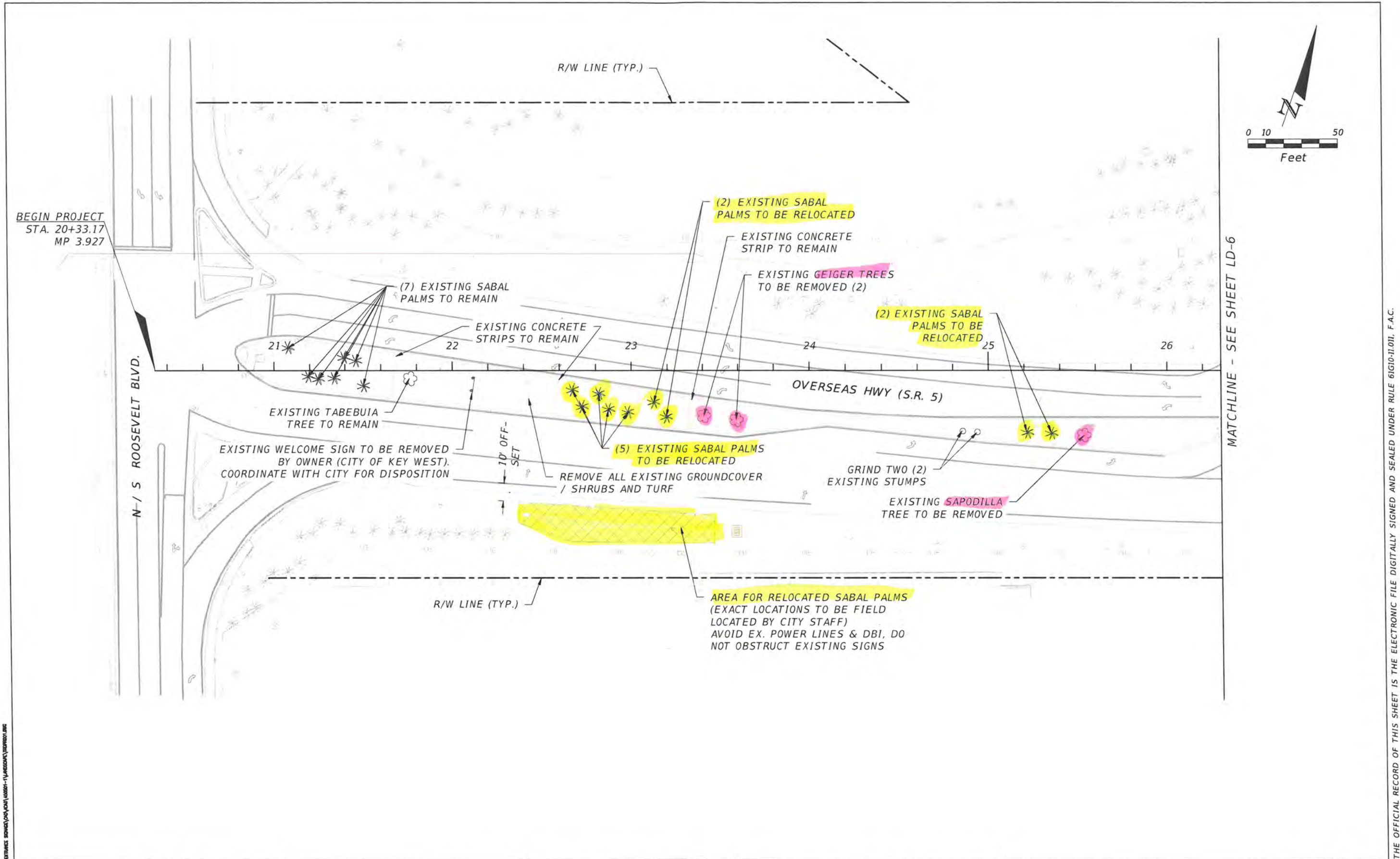


Area where  
Sabal Palms are  
to be  
transplanted  
(Area 1).





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

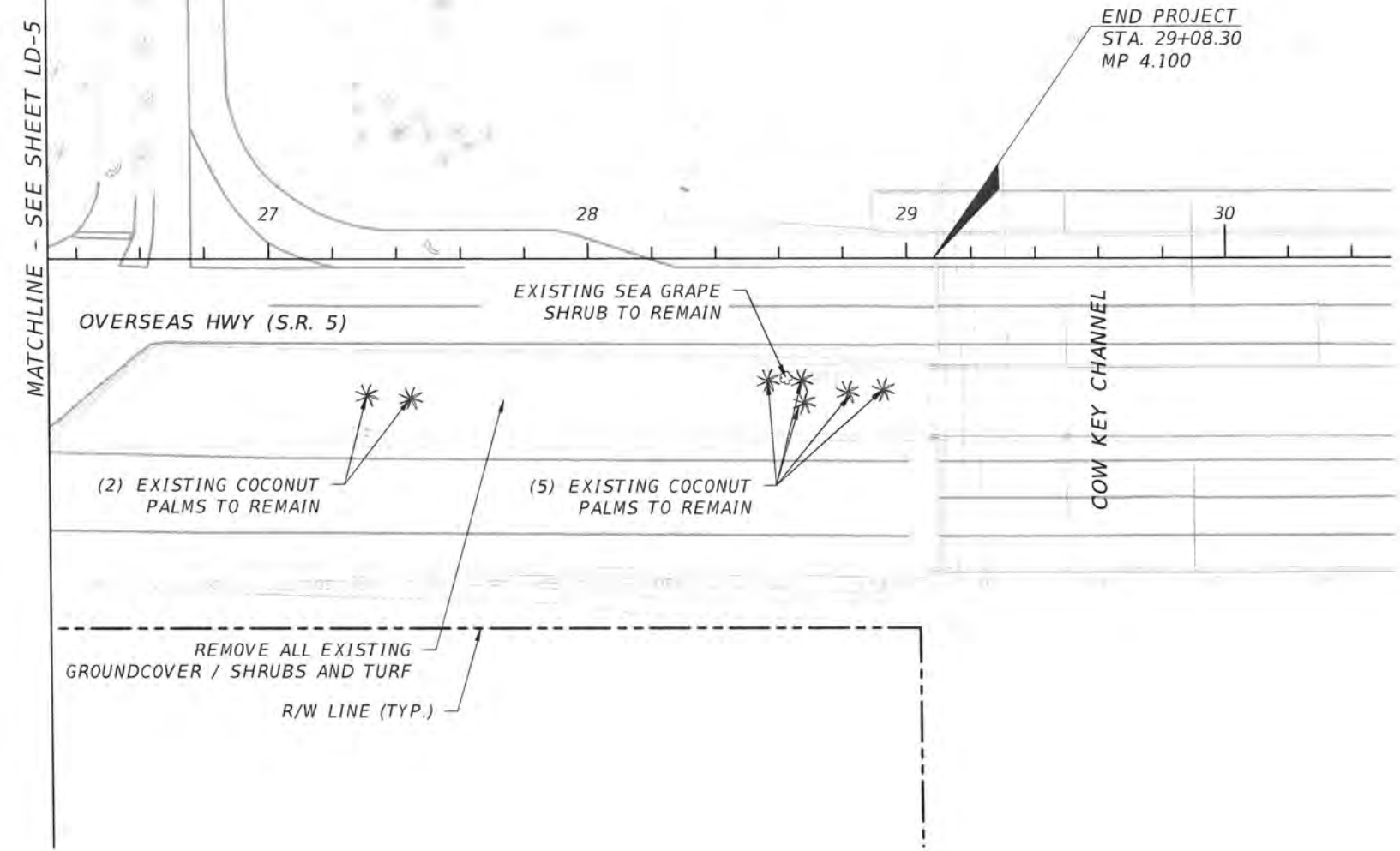
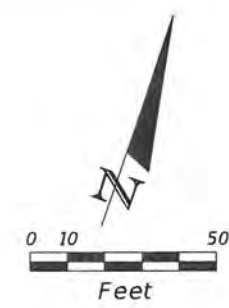


REVISIONS				<div> <div> <div>KEITH OROPEZA, RLA</div> <div>LICENSE #LA0001023</div> <div>GAI CONSULTANTS, INC.</div> <div>618 E. SOUTH STREET - SUITE 700</div> <div>ORLANDO, FL 32801</div> </div> <div> <div>STATE OF FLORIDA</div> <div>DEPARTMENT OF TRANSPORTATION</div> </div> </div>	<div> <div>ROAD NO.</div> <div>SR 5</div> </div> <div> <div>COUNTY</div> <div>MONROE</div> </div> <div> <div>FINANCIAL PROJECT ID</div> <div>450501-1-74-01</div> </div>	<div> <div>TREE DISPOSITION PLANS</div> </div>	<div> <div>SHEET NO.</div> <div>LD-5</div> </div>
DATE	DESCRIPTION	DATE	DESCRIPTION				

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-6
					SR 5	MONROE	450501-1-74-01		

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BEGIN PROJECT  
STA. 20+33.17  
MP 3.927

N / S ROOSEVELT BLVD.

EXISTING SABAL PALMS

EXISTING TABEBUIA TREE

2' LATERAL OFFSET  
(MAINTENANCE BUFFER)

COORDINATE FIELD LOCATION WITH  
CITY TO AVOID CONFLICT WITH SIGNAGE

OVERSEAS HWY (S.R. 5)

MATCHLINE - SEE SHEET LD-8

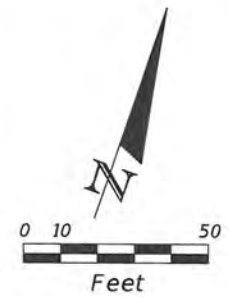
R/W LINE (TYP.)  
RELOCATED SABAL PALMS (9)  
OUTSTANDING FLORIDA WATERS

EXISTING  
Trees + Palms

DESIGN SPEED 40 MPH

PLANT LEGEND

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

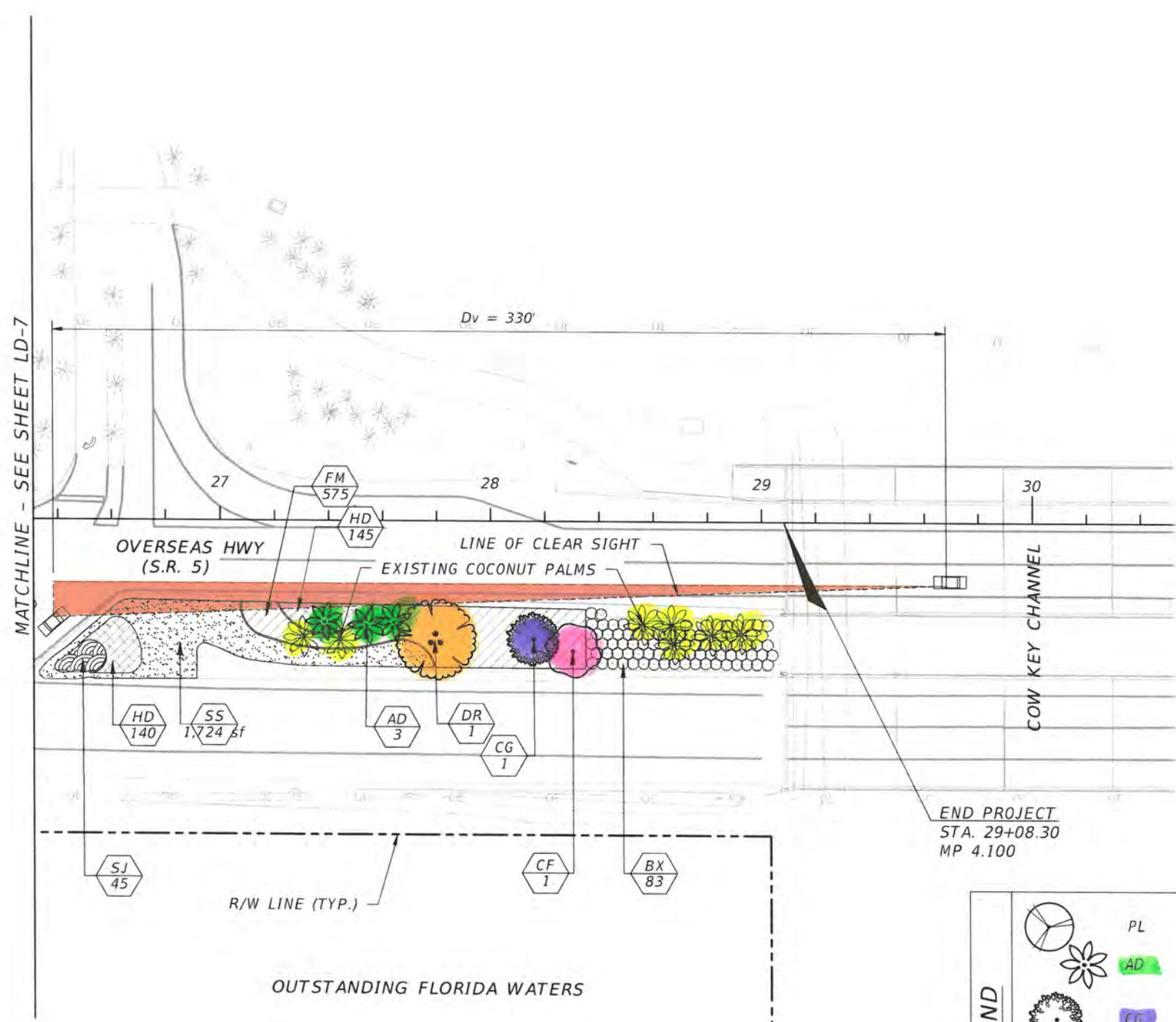
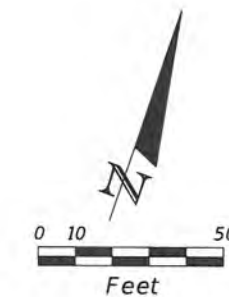


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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5	MONROE	450501-1-74-01		LD-7

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






EXISTING  
Trees + Palms

DESIGN SPEED 40 MPH

PLANT LEGEND

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

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REVISIONS				KEITH OROPEZA, RLA LICENSE #LA0001023 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLANS	SHEET NO.  LD-8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5	MONROE	450501-1-74-01		

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# Application





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 ( X ) Flowering ( ) Fruit ( ) Shade ( X ) Unsure
Reason(s) for Application:	
( ) Remove	( X ) Tree Health ( ) Safety ( X ) 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.oroepza@gaiconsultants.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

#16cm 2.0  
7.6" dbh

#26cm 1.3  
4.7" dbh

Sapo 3.7  
2.6  
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@gaiconsultants.com](mailto:K.Oropeza@gaiconsultants.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 and application unless the owner has given approval.

Sincerely,

Karen

**From:** Keith Oropeza <[K.Oropeza@gaiconsultants.com](mailto:K.Oropeza@gaiconsultants.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

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**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)

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