

# Exhibit E

**FDOT Standalone Landscape Project**

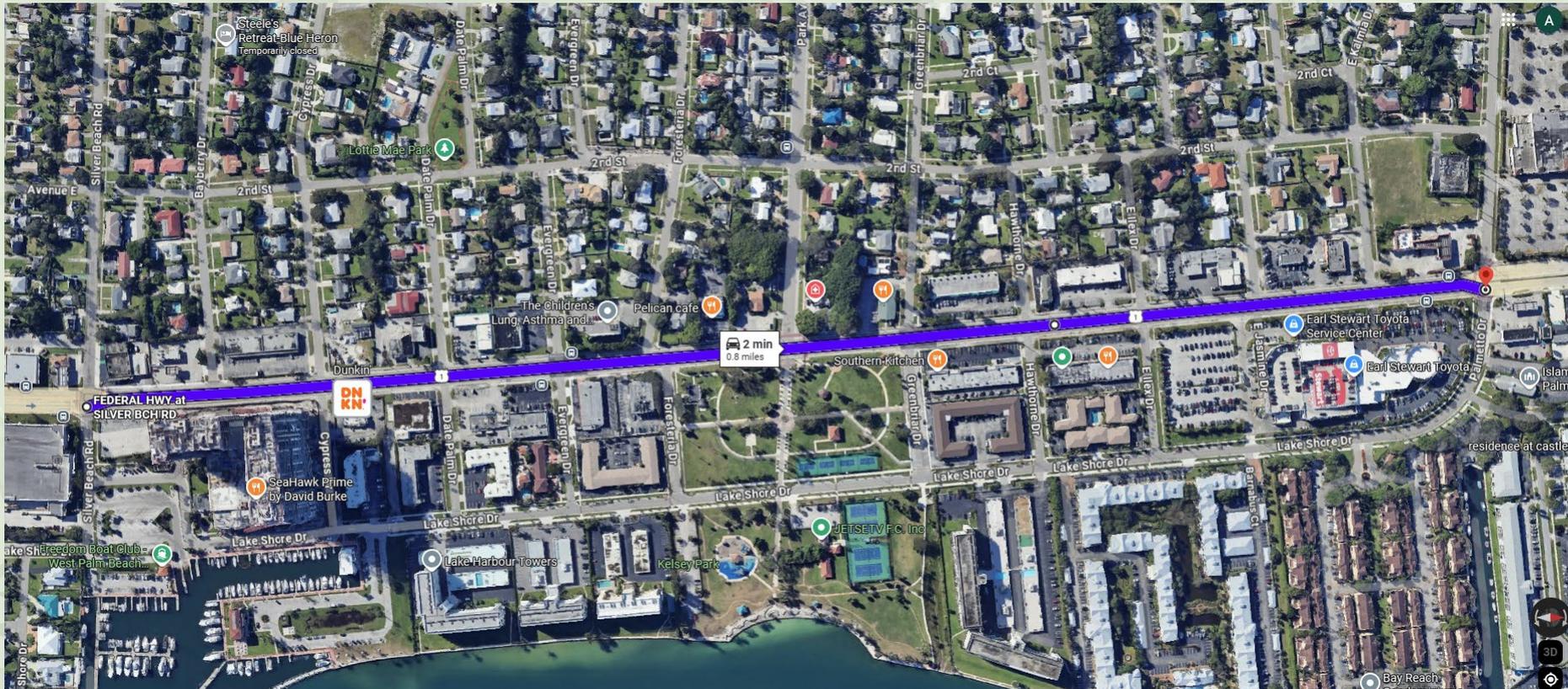
**State Road (S.R.) 5 / US-1**

**from N. of Silver Beach Rd. to S. of Palmetto Dr.**

**Lake Park, FL**

## Project Location:

- The project is located within US-1 (SR 5) between Silver Beach Road and Palmetto Drive, within the state right of way.
- Project Length – 0.2 Miles



## **Project Overview:**

- Project to follow roadway construction project FPID 438386-2.
- Standalone Landscape Project programmed/funded to provide landscaping and irrigation within the proposed US-1 medians.
- Landscape design to focus on providing trees, palms, shrubs, and groundcovers throughout the medians. Trees and Palms shall be included in shrub beds with sod maintenance strips provided.
- Irrigation shall utilize pump station and well for water source/point of connection. New electric service will be provided. Irrigation components will follow Lake Park preferred components and brand names utilized throughout the Town.
- Landscape and irrigation installation dependent on execution of Maintenance Memorandum of Agreement (MMOA).
- The Landscape Design Concepts are provided on the following slides.

## Design Concepts: Segment 1 (South) – Medians 1 & 2 Overview (Silver Beach Rd to Park Ave)

### A. Landscape Design with Shrubs and Groundcovers



Silver Beach Rd

Park Ave

### B. Landscape Design without Shrubs or Groundcovers



Silver Beach Rd

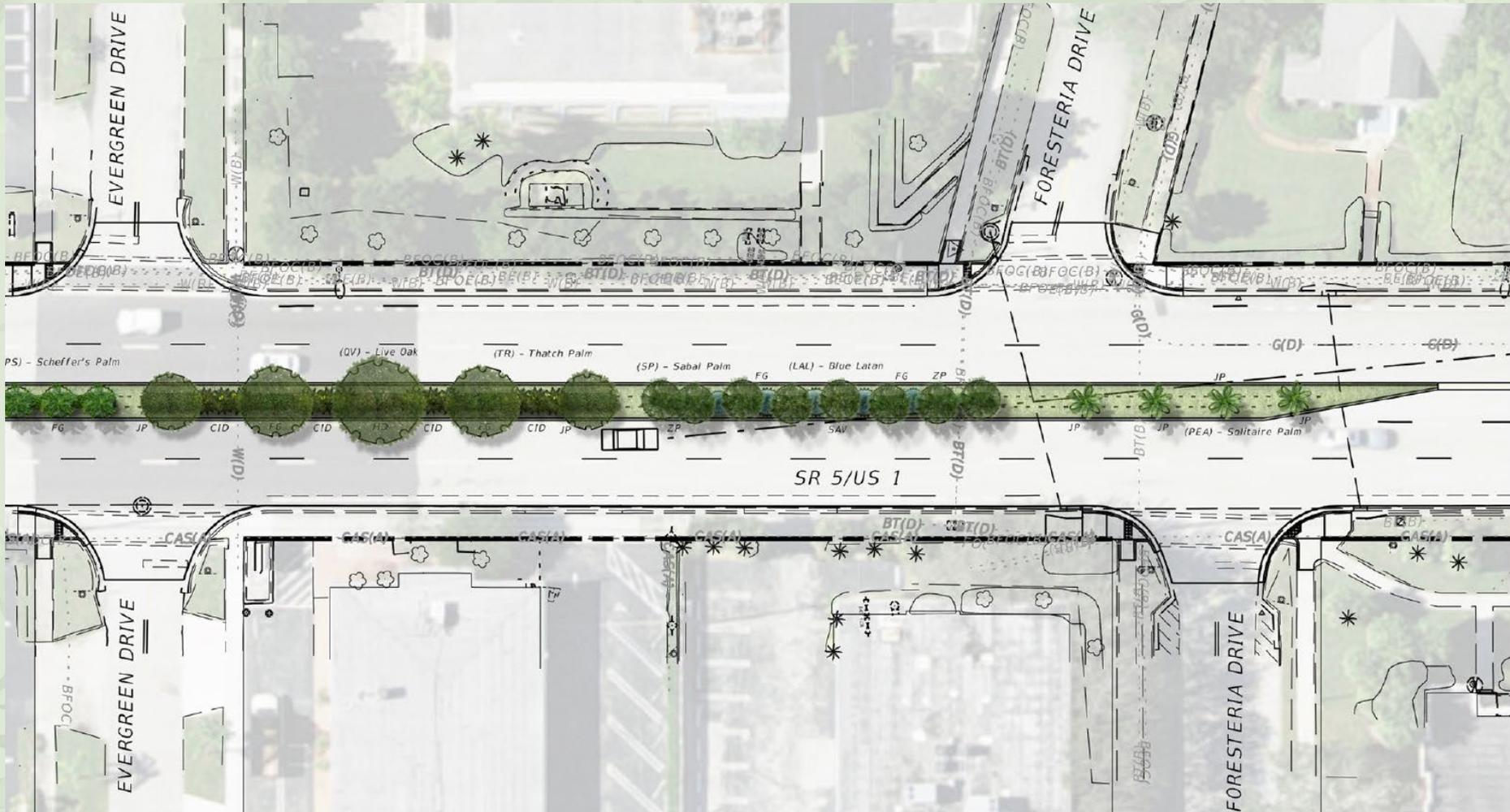
Park Ave





## Design Concepts: Segment 1 (South) – Detailed

### A. South Median 2B



## Design Concepts: Segment 2 (North) – Medians 1, 2, & 3 Overview (Park Ave to Palmetto Dr)

### A. Landscape Design with Shrubs and Groundcovers



Park Ave

Palmetto Dr

### B. Landscape Design without Shrubs or Groundcovers



Park Ave

Palmetto Dr



## Design Concepts: Segment 2 (North) – Detailed

### A. North Median 2



## Design Concepts: Segment 2 (North) – Detailed

### A. North Median 3



## Design Concepts: Plant Palette

### SHADE TREES



LIVE OAK  
*QUERCUS VIRGINIANA*

### FLOWERING TREES



CRAPE MYRTLE  
*LAGERSTROEMIA INDICA*

### PALMS



MEDJOOl DATE PALM  
*PHONEIX DACTYLIFERA*



SABAL PALM  
*SABAL PALMETTO*



SCHEFFER'S PALM  
*PTYCHOSPERMA SCHEFFERI*



MONTGOMERY PALM  
*VEITCHIA MONTGOMERYANA*

### PALM TREES



SOLITAIRE PALM  
*PTYCHOSPERMA ELEGANS*



THATCH PALM  
*THRINAX RADIATA*



EUROPEAN FAN PALM  
*CHAMAEROPS HUMILIS*



BLUE LATAN  
*LATANIA LODDIGESII*

### ACCENT SHRUBS



SONG OF INDIA  
*DRACAENA REFLEXA*



QUEEN EMMA CRINUM LILY  
*CRINUM AUGUSTUM*  
'QUEEN EMMA'

## Design Concepts: Plant Palette

### SHRUBS



**FIREBUSH**  
*HAMELIA PATENS*



**VARIEGATED SCHEFFLERA**  
*SCHEFFLERA ARBORICOLA*  
'TRINETTE'



**HORIZONTAL COCOPLUM**  
*CHRYSOBALANUS ICACO*  
'HORIZONTAL'



**GREEN ISLAND FICUS**  
*FICUS MICROCARPA*  
'GREEN ISLAND'



**MUHLY GRASS**  
*MUHLENBERGIA CAPILLARIS*



**COONTIE**  
*ZAMIA INTEGRIFOLIA*

### SHRUBS



**PARSONS JUNIPER**  
*JUNIPERUS CHINENSIS*  
'PARSONII'

# US-1 from Silver Beach Rd to Palmetto Dr



## Design Concepts: Cost (Project Construction)

### SR 5 (US-1) FROM SILVER BEACH RD TO PALMETTO RD - LANDSCAPE COST ESTIMATE

FPI# 450677-1-52-01

*PAY ITEM NO.	SYMBOL	DESCRIPTION	NATIVE	MAX. MAINT. SIZE	UNIT	QTY	UNIT COST	TOTAL
0999 2		LUMP SUM CONTRACT			LS	1	\$ 445,618.00	\$ 445,618.00
0101 1		MOBILIZATION - INCLUDES CONSTRUCTION PHASE ONLY (10%)			LS	1	\$ 44,561.80	\$ 44,561.80
0102 1		MAINTENANCE OF TRAFFIC (MOT) - INCLUDES CONSTRUCTION PHASE ONLY (10%)						
0102 60		WORK ZONE SIGN			ED	462	\$ 0.24	\$ 110.88
0102 74 1		CHANNELIZING DEVICE - TYPES I, II, DI, VP, DRUM, OR LCD			ED	1,562	\$ 0.11	\$ 171.82
0102 76		ARROW BOARD/ADVANCE WARNING SIGN, TEMPORARY			ED	70	\$ 6.86	\$ 410.50
0102 99		PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY			ED	28	\$ 9.95	\$ 278.60
0102 115		TYPE III BARRICADE			ED	105	\$ 0.31	\$ 32.55
0107 1		LITTER REMOVAL AND DISPOSAL (30 CYCLES)			AC	10.47	\$ 31.00	\$ 324.57
0107 2		MOWING (30 CYCLES)			AC	6.93	\$ 63.00	\$ 436.59
0570 1 2		STENOTAPHRUM SECUNDATUS - St. Augustine Sod			SY	1,118	\$ 6.50	\$ 7,267.00
0580 1 1		LANDSCAPE COMPLETE - SMALL PLANTS (INCIDENTAL)			LS			\$ 104,684.53
		MULCH, HARDWOOD			CY	60	\$ 40.00	\$ 2,400.00
		2 YEAR ESTABLISHMENT PERIOD MAINTENANCE (24% PLANT/IRRIGATION COST)			LS	1	\$ 102,284.53	\$ 102,284.53
0580 1 1		LANDSCAPE COMPLETE - SMALL PLANTS			LS			\$ 19,246.00
	CJD	CHRYSOBALANUS ICACO 'HORIZONTALIS', DWARF COCOPLUM, #3 GAL, 1.5x 1.5, 2 OC	Y	2	EA	128	\$ 21.00	\$ 2,688.00
	FG	FICUS MACROPHYLLA 'GREEN ISLAND', GREEN ISLAND FIGUS, #3 GAL, 1.5x 1.5, 2 OC	N	2	EA	190	\$ 14.00	\$ 2,660.00
	HD	HAMELIA NODOSA, DWARF FIREBUSH, #3 GAL, 1.5x 2, 2 OC	Y	3	EA	20	\$ 14.00	\$ 280.00
	JR	JUNIPERUS PARSONII, PARSONS JUNIPER, #3 GAL, 1x 1.5, 2 OC	Y	2	EA	258	\$ 11.00	\$ 3,612.00
	MUH	MUHLENBERGIA CAPILLARIS, MUHLY GRASS, #3 GAL, 1.5x 1.5, NO CUT BACK PLANTS, 2.5 OC	Y	3	EA	245	\$ 14.00	\$ 3,430.00
	SAV	SCHEFFLERA ARBORICOLA 'TRINETTE', DWARF VARIEGATED SCHEFFLERA, #3 GAL, 1.5x 1.5, 2 OC	N	3	EA	99	\$ 14.00	\$ 1,386.00
	ZP	ZAMIA PUMILA, COONTIE, #3 GAL, 1.5x 2, 2 OC	Y	3	EA	173	\$ 30.00	\$ 5,190.00
0580 1 2		LANDSCAPE COMPLETE - LARGE PLANTS			LS			\$ 125,585.00
	CH	CHAMAEROPS HUMILIS, EUROPEAN FAN PALM, 7.5' OA X 7' SPRD, MULTI, MIN 7' TOTAL STEM FOOTAGE	N	15' (NF)	EA	9	\$ 750.00	\$ 6,750.00
	LI	LAGERSTROEMIA INDICA 'MUSKOGEE', LAVENDER CREPE MYRTLE, 14-16' OA X 6' SPRD, MULTI, LIMB UP 5'	N	25'	EA	12	\$ 800.00	\$ 9,600.00
	PEA	PTYCHOSPERMA ELEGANS, SOLITAIRE PALM, MIN 14' CT, SINGLE, MAX 4' CAL, MATCHED	N	25'	EA	15	\$ 875.00	\$ 13,125.00
	PHM	PHOENIX DACTYLIFERA 'MEDJOL', MEDJOL DATE PALM, 18-20' CT	N	50'	EA	2	\$ 6,075.00	\$ 12,150.00
	QV1	QUERCUS VIRGINIANA, LIVE OAK, 12' OA X 4' SPRD, 2' CAL	Y	50' (NF)	EA	4	\$ 590.00	\$ 2,360.00
	QV2	QUERCUS VIRGINIANA, LIVE OAK, 16' OA X 6' SPRD, 4' CAL	Y	50' (NF)	EA	6	\$ 1,650.00	\$ 9,900.00
	QV3	QUERCUS VIRGINIANA, LIVE OAK, 20' OA X 8' SPRD, 6' CAL	Y	50' (NF)	EA	2	\$ 2,850.00	\$ 5,700.00
	SP	SABAL PALMETTO, SABAL PALMETTO, 12', 18', 24' CT, SEE PLAN FOR SIZE	Y	50' (NF)	EA	26	\$ 400.00	\$ 10,400.00
	TR	THRINAX RADIATA, FLORIDA THATCH PALM, 8-10' OA, (1'-2' CT), FF, SL	Y	20' (NF)	EA	24	\$ 1,000.00	\$ 24,000.00
	VM	VEITCHIA MONTGOMERYANA, MONTGOMERY PALM, 18-24' OA (20-26' RANGE), SL, MIN 8' LC	N	45' (NF)	EA	12	\$ 1,275.00	\$ 15,300.00
0590 70		IRRIGATION SYSTEM			LS	1	\$ 281,354.55	\$ 281,354.55
0630 2 11		CONDUIT, FURNISH & INSTALL, OPEN TRENCH			LF	20	\$ 12.70	\$ 254.00
0630 2 12		CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE			LF	50	\$ 34.50	\$ 1,725.00
0715 1 12		LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6			LF	100	\$ 3.50	\$ 350.00
0715 1 13		LIGHTING CONDUCTORS, F&I, INSULATED, NO.4 - 2			LF	60	\$ 5.25	\$ 315.00
0715 7 11		LOAD CENTER, F&I, SECONDARY VOLTAGE			EA	1	\$ 17,900.00	\$ 17,900.00
								<b>LANDSCAPE TOTAL: \$ 249,515.53</b>
								<b>IRRIGATION TOTAL: \$ 281,354.55</b>
								<b>ELECTRICAL TOTAL: \$ 22,233.00</b>
								<b>ANCILLARY TOTAL: \$ 98,155.81</b>
								<b>PROJECT TOTAL: \$ 651,258.89</b>
								<b>DIFFERENCE: \$ (205,640.89)</b>

## Design Concepts: Cost (Maintenance Estimate)

### 450677-1-52-01 SR 5 / US-1 from Silver Beach to Palmetto - Landscape Maintenance Estimate

#### Approximate Landscape Maintenance Activities, Units, & Cost

Item	Qty	Length	Man Hours/Qty	Rate	Freq/Year	Annual Total	Remarks
Hand weeding of Shrub Beds (SF)	6286		2 guys (\$35/hr) x 3 hours	\$ 225.00	12	\$ 2,700.00	Less extensive in winter months
Trimming of Shrub Beds (SF/LF)	6286	1275	1 guy (\$35/hr) x 3 hours	\$ 2.50	4	\$ 12,750.00	Less extensive in winter months. Estimate on High end due to several species not requiring pruning.
Fertilization (Palms Only, EA)	78		\$182 material + \$140 labor	\$ 910.00	2	\$ 1,820.00	Based on 78 palms x 7lb avg. each = 546lbs/40 =14 bags x \$55each = \$770 material + 2 guys (\$35/hr x 2 hrs) = \$140 labor (\$910 total)
Tree Pruning (Oaks and Non-Shedding Palms, EA)	86		2 guys (\$45*/hr) x 2.75 hours	\$ 1,161.00	1	\$ 1,161.00	Based on 86 trees, 0.15 hr/tree, (12.9 hrs, 2 guys (\$45/hr) = \$1,161.00 labor
Disease & Pest Control (LS)	As needed throughout site		As needed throughout site	\$ 100.00	12	\$ 1,200.00	Based on \$100/month - As needed, (Majority of pest & disease resistant)
Mulching (SF)	6286		As needed throughout site	\$ 1,086.62	1	\$ 1,086.62	1,571.5 CF of Mulch, 786 Bags per complete remulch. Every other year. 393 bags utilized per year, 2CF per bag @ \$2.68/bag = \$526.62 + 2 guys, 8 hrs, \$35/hr = \$560 (\$1,086.62 total per year)
Litter Removal (AC)	0.205		2 guys (\$35/hr) x 1 hour	\$ 150.00	12	\$ 368.60	Performed concurrently with mowing.
Mowing - Small Machine (AC)	0.205		3 guys (\$45/hr) x 4 hours	\$ 540.00	12	\$ 1,326.94	Based on 1 guy on small mower, 1 guy with edger, and 1 guy with blower (4hrs/each).
Irrigation Repairs and Testing (LS)	15206		2 guys (\$45/hr) x 4 hours +\$200 parts	\$ 560.00	4	\$ 2,240.00	Based on 2 guys x 4 hrs each @\$45/hr for performance testing. \$200 per quarter for parts.
<b>Annual Cost</b>						<b>\$ 24,653.16</b>	

**NOTES:**

All landscape will be maintained by installation contractor for 2 year after installation is complete, (the Town will not begin maintenance until the fall/winter of 2029).

## Next Steps:

- As stated, the project requires maintenance commitments from Lake Park to move forward.
- The Town of Lake Park will need to sign a maintenance commitment letter, confirming the intent to maintain.
- FDOT and the consultant team will coordinate the design and species with the Town for final approval.
- An MMOA (Maintenance Agreement) will be developed based on those design preferences and requests and provided for Town/Council execution.
- If an MMOA is not executed, FDOT will move forward with Trees, Palms, and Sod only utilizing a standard drought tolerant roadway planting palette.

# Thank You

Questions or comments?

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