



CITY OF
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CoSA City Commission

“Public Works & Utilities Update”

January 27, 2020

Reuben C. Franklin, Jr., P.E. Director, Public Works

Todd J. Grant, P.G. Director, Utilities





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Public Works & Utilities

Update Agenda

Key Updates

- Paving Program
- North City Water Main Improvements
- S. Davis Shores / Coquina Park Update
- Major Projects in Design Phase
- Mobility Program

Overview

- CIP Overall Status Summary

Overview FY 2020

Road Name	From	To	Length (linear feet)	Cost
Completed in 1st Quarter FY 20:				
St Francis	Weeden St.	Park	1,228	\$27,478.59
			0.23 miles	\$27,478.59
Planned in 2nd Quarter FY 20:				
Anderson	South Dixie	US1	694	\$16,432.08
Aviles Dr	South Dixie	West Kings	620	\$21,624.08
Davis St	South Dixie	West Kings	968	\$23,984.78
Mackey Ln	Pellicer Ln	West Kings	755	\$18,957.76
Marion St	South Dixie	US1	480	\$24,725.56
Minorco Ave	Arrendondo Ave	Miruelo	890	\$21,627.13
Montrano Ave	Arendondo Ave	Miruelo	845	\$23,178.08
D'allyon Ave	Montrano Ave	Minorco	697	\$13,352.55
			1.13 miles	\$163,882.02
Paving completed with North City Water Main project (not part of Paving budget)			1.2 miles	
Total:			2.56 miles	
Paving work for 3rd Quarter FY 20 is currently being prioritized, and will encumber remaining paving budget for this fiscal year.				

Paving Program

Plus Paving Planned, Following Lincolnville Drainage Project

Road Name	From	To	Length (linear feet)	Cost
* Blanco St	Cerro St.	South St.	1,072	\$33,875.20
* Cerro St.	Riberia St.	Oneida St.	996	\$28,319.92
DeSoto Pl.	Granada St	ML King Ave	721	\$22,783.60
* Duero St.	MLK Ave.	Riberia St.	447	\$12,712.68
* Duero St.	Oneida St.	MLK Ave	503	\$14,305.32
* MLKingAve	DeHaven St.	Cerro St.	2,513	\$91,322.42
* Moore St.	Riberia St.	ML King Ave	703	\$19,979.10
* SanfordSt	Bridge St.	Cedar St.	511	\$15,347.73
School St.	Pomar St.	Kings Ferry Way	162	\$5,120.78
* SouthSt	Riberia St.	ML King Ave.	452	\$16,425.68
* Twine St.	Lovett St.	Cerro St.	1,559	\$49,270.72
Miles Planned, Following Utility Work:				1.83 miles
				\$309,463.15

* Portions of streets transferred to Lincolnville CDBG project in FY19-20

SUMMARY

Previously Paved 2014 – 2017:	12.8 miles (actual)
Paved FY 2018:	6.4 miles (actual)
Paved FY 2019:	5.02 miles (actual)
Total Miles Paved in Prior Years:	24.22 miles (actual)
Completed / Planned in 1st & 2nd Quarter FY 2020:	2.56 miles (actual + estimate)
Planned, Following Lincolnville Drainage Utility Work:	1.83 miles (estimate)
Planning in progress for remaining FY 2020 paving work, total budget \$750,000	



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North City Water Main Improvements

- ❖ SRF Funded; Replace aging, small diameter, cast iron water mains with new, larger mains
- ❖ Construction is complete
- ❖ 8,300 LF new water main installed
- ❖ New asphalt roadway (1.2 miles):
 - ✓ Hope Street
 - ✓ Cincinnati Avenue
 - ✓ Loring Street
 - ✓ Rohde Avenue
 - ✓ Grove Avenue





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S. Davis Shores / Coquina Park Update

- ❖ Coquina Creek upstream maintenance:
 - 90% Complete
- ❖ Coquina Creek downstream maintenance:
 - Will commence after upstream work completion
- ❖ Storm inlet maintenance:
 - Complete
- ❖ Menendez Road / Coquina Avenue intersection storm culvert lining and right-of-way improvements:
 - Work is on schedule for February
- ❖ Coquina Park culvert headwall:
 - Improvements are in design for permitting
- ❖ One-way tidal valve installation:
 - Valves are ordered



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S. Davis Shores / Coquina Park Update (continued)

❖ Ferdinand Avenue maintenance:

- Storm inlet and pipe cleaning complete
- Storm pipe lining is scheduled

❖ Coquina Park construction:

- First phase of nuisance flooding construction complete
- Obtained construction easements for improvements at #95 Coquina Avenue property

❖ City installation of one-way tidal valve in FDOT outfall near Arredondo Avenue and Arricola Avenue:

- Complete



Coquina Park grading work



City installation of one-way tidal valve in FDOT outfall



Nuisance flooding prior to one-way tidal valve installation



Dry roadway after one-way tidal valve installation



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Major Projects in Design Phase

Design Milestones Achieved

- ❖ **Lake Maria Sanchez Stormwater Project**
 - Detailed Design phase
- ❖ **South Whitney Street Box Culvert and West King Street Flood Mitigation**
 - Progressed to Final Design last quarter
- ❖ **Hurricane Matthew FEMA Lift Station Rehabilitation (13 stations) CMAR Project**
 - Final Design phase



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Mobility Program: Activity Management

Progress to Date

Level/Initiative	Deliverable/Activity	% Complete	Est. Finish	Notes
Neighborhood				
Plantation Island Sidewalk	Bid & Construct 8-ft Sidewalk along Plantation Island Dr	100%	-	
Arredondo Sidewalk	Construct sidewalk and bike racks	100%	-	
Ravenswood Framework	Develop conceptual plan for walking, biking and signage	100%	-	
City				
King St Complete St MP	Complete Street Master Plan for King St Corridor	90%	3/31/2020	4th workshop completed; Need to schedule 5th workshop
Mobility Plan	Develop statutorily compliant mobility plan for Comp Plan	100%	-	
Parking Code Update	Review and update parking code requirements	20%	9/31/2020	
Smart Parking System	Phase 2 Integrate Parking Garage with On/Off Street Parking	50%	2/28/2020	Purchased new Point of Sale system
Commercial Delivery (CD)	Implement parking & truck delivery management system	40%	TBD	Approved by HARB; SJRWMD Permitting
Bike Share Program	Develop a sponsored bike share program for the City	70%	Spring 2020	Delayed due to technical issues with app and product inventory
Bol Tallship Policy Analysis	Analyze bridge openings based on adopted schedule for tenants	100%	-	
City Marina Crosswalk	Design and bid crosswalk at City Marina	70%	3/31/2020	
NoL Shuttle	Provide park and ride shuttle during Nights of Lights	100%	-	
Local (SJC, CoSAB, TPO, etc.)				
SJR2C Loop Planning Study	Plan route for shared-use non-motorized trail	100%	-	
EV Charging Stations	Install EV charging stations at the garage, city hall parking, etc..	50%	TBD	Parking Garage and Davenport Park to be installed
NFTPO LRTP 2045	Develop and adopt long range transportation plan for region	100%	-	

Legend

	on target		at risk		corrective action required
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Mobility Program: Activity Management (continued)

Progress to Date

Level/Initiative	Deliverable/Activity	% Complete	Est. Finish	Notes
State (FDOT, SJRWMD, DEP)				
San Marco Ave & May Street	Intersection and drainage improvements	80%	Late Fall 2019	Began October 30, 2017, Intersection pushed to Fall 2019
US 1 SW (Fairbanks-Big Oak)	Design/construct sidewalk along US 1	60%	12/4/2019	Design Phase, Construction expected to begin 6/10/2020
US 1 Rehab Design	Traffic and pavement improvements from SR207 to North City Gates	60%	5/18/2020	Public Meeting on November 18, 2019
Red Cox Rd/Anastasia Blvd	Intersection improvements	30%	-	Data Collection Complete, FDOT working on concept
Zorayda/A1A Ped Crossing	Design	90%	TBD	Easement required; delayed; waiting on FDOT response
San Marco Ave Shared Path	Design and construct shared path between Pine and Ocean Ave	60%	TBD	Need decision on palm tree removal

Federal

Major Accomplishments (since October 28, 2019)	Upcoming Activities
→ NoL Shuttle	→ Historic Downtown Parking Facility Access Management Evaluation
→ SJR2C Loop	→ Spring Shuttle
→ Mobility Plan Approval	→ King Street Complete Street Master Plan Workshop No. 5
→ Plantation Island Drive Sidewalk	
→ Arredondo Sidewalk / Bike Racks	

Challenges, Risks & Issues

- Land Acquisition for Park and Ride Program

Key Decisions

Decisions Required:

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Legend

	on target		at risk		corrective action required
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Mobility Program: Plantation Island Drive Sidewalk





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Mobility Program: Nights of Lights Wrap-Up

2019 Nights of Lights – Park & Ride Shuttle

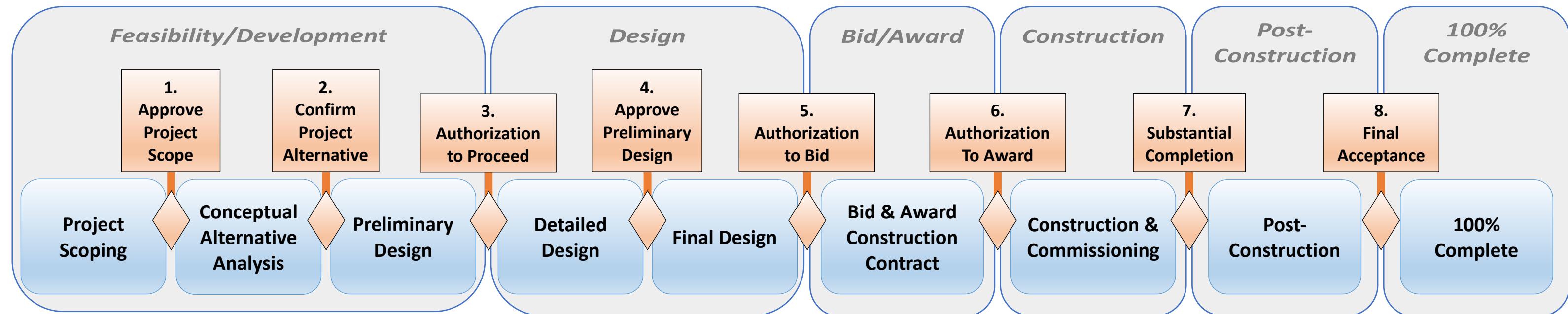
Passenger Count (Round Trip)

	Saturday	Friday	Saturday	Saturday	Saturday	Saturday	Thursday	Friday	Saturday	Sunday	TOTALS
	23-Nov	29-Nov	30-Nov	7-Dec	14-Dec	21-Dec	26-Dec	27-Dec	28-Dec	29-Dec	
301 San Marco Ave. Lot	1042	1178	1008	1104	730	763	885	894	1123	774	9,501
County Health Dept.	1638	1121	1144	597	1201	708	320	628	1175	129	8,661
2019 Total Passengers	2680	2299	2152	1701	1931	1471	1205	1522	2298	903	18,162
Percentage Increase Over 2018	46%	129%	22%	4%	34%	(-21%)	N/A	N/A	88%	N/A	61%
	Increase	Increase	Increase	Increase	Increase	Decrease Due to Rain	No Shuttle Prior Year	No Shuttle Prior Year	Increase	No Shuttle Prior Year	Increase
2019 Total Vehicles	893	766	717	567	644	490	402	507	766	301	6,054

Note: Total Vehicles is based on average industry standard of 3 passengers per vehicle.

CIP Overall Status Summary

Design-Bid-Build Active Projects – through January 27, 2020



Downtown Improvement District Phase 2	Hurricane Irma FEMA LS-2 and LS-51 Rehabilitation	Lift Station 14 Replacement	City Marina Crosswalk	S. Whitney & W. King Flood Mitigation ⁽¹⁾	West 5 th Street Gravity Sewer and Septic to Sewer Connections	Smoke Testing, Cleanout Repairs, and Manhole Inflow Dish Installation in Multiple Basins	North City Water Main Improvements	Plantation Island Drive Sidewalk
2020 Paving Projects	St. Francis Street Utility Improvements	Inlet Drive Shoreline Restoration	Avenue D Utility Relocation	Hurricane Matthew FEMA Lift Station Rehabilitation (13 stations) and CMAR Pre-Construction Services	Clean & Inspect Sanitary Mains in Basins 2, 3, 8, 12, 21, 29 & 56	Clean and CIPP Sanitary Mains in Basins 2 & 24	West 2nd Street Gravity Sewer and Septic to Sewer Connections	Macaris Outfalls Resiliency Retrofit
Pearl Street Force Main Improvements	Althea/Fern/ Seminole/Atlantic Neighborhood Drainage	Court Theophelia Neighborhood Drainage	Sevilla Street Brick Roadway & Utility Improvements	Lincolnville Utility & Drainage – Project 3 ⁽¹⁾ [Cerro St & Duero St (portion)]	Sanitary Manhole Inspection and Rehabilitation	Lincolnville Drainage – Project 1 ⁽¹⁾ [South St & DeHaven St]	Ravenswood Drive Drainage Utility Relocation	FSDB Sanitary Sewer Re-Route
King Street San Sebastian Water Main HDD	WWTP Resiliency Analysis ^{(1) (**)}	WWTP Resiliency Analysis ^{(1) (**)}	Lincolnville Utility & Drainage – Project 3 ⁽¹⁾ [Cerro St & Duero St (portion)]	LPRO Concentrate Discharge ^(*)	Sanitary Main and Lateral Cleaning, Inspection and Rehabilitation	Wells D-8, D-9, and D-10 Investigation and Repairs	Clean & Inspect Sanitary Mains in Basins 7, 9, 23, 4, 11, 22, 10	Davis Shores Backflow
Fish Island Management Plan	FEMA Contract	Awarded! – (February 10th Commission meeting)	Coquina Park and Stormwater Improvements	Water Treatment Plant Motor Control Center	Wastewater Treatment Plant Motor Control Center Replacement	Pump Station 3 Replacement		
Flood Mitigation at Avenida Menendez Seawall; Bayfront Connectivity ⁽¹⁾			WWTP Headworks Rehabilitation	Force Main Replacement LS-51 to LS-52		West Augustine Septic to Sewer Connections		

Key:

- ⁽¹⁾ Grant Dependent
- ⁽²⁾ Developer Dependent
- ^(*) Postponed
- ^(**) Phase Complete



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Additional Questions and Commission Discussion