

1015 Cultural Park Blvd. Cape Coral, FL

# AGENDA Transportation Advisory Commission

May 15, 2019 8:00 AM Conference Room 220A

# 1. Meeting called to order

A. Chair Gunter

# 2. ROLL CALL

A. Carioscia, Cosden, Coviello, Gunter, Stokes, and Alternate Williams

# 3. APPROVAL OF MINUTES

A. March 20, 2019 Meeting Minutes

# 4. PUBLIC INPUT

### 5. BUSINESS

- A. 2018 Toll Revenue Report Eileen Webster, Lee County D.O.T. Fiscal Manager
- B. Median Landscape Templates and S.E. 47th Terrace Streetscape Update Max Spann, Landscape Architect, CPH
- C. MPO Issues Persides Zambrano, P.W. Planning and Permitting Manager

# 6. OLD BUSINESS

- A. Cape Coral Parkway / Del Prado Boulevard Traffic Update William Corbett, Traffic Engineer
- B. Adopt-A-Median William Corbett, Traffic Engineer
- C. Landscaping by Cape Coral Bridge John Castle, Senior Project Manager
- D. Coronado Parkway Landscaping Update Stephanie Smith, P.W. Design and Construction Manager
- E. Hancock Bridge Parkway Landscaping Update Stephanie Smith,

P.W. Design and Construction Manager

- F. Hurricane Replacement Trees Update Stephanie Smith, P.W. Design and Construction Manager
- G. Oasis Median John Castle, Senior Project Manager
- H. Median Landscape Improvement Priorities Stephanie Smith, P.W. Design and Construction Manager
- I. Welcome Signs Maureen Buice, Public Information Specialist

# 7. MEMBERS COMMENTS

# 8. Time and Place of Next Meeting

A. The next meeting will be held on Wednesday, June 19, 2019, at 9:00 a.m. in Conference Room 220A.

# 9. Motion to Adjourn

In accordance with the Americans with Disabilities Act and <u>Florida Statutes</u> 2.86.26, persons needing a special accommodation to participate in this proceeding should contact the Human Resources Department whose office is located at Cape Coral City Hall, 1015 Cultural Park Boulevard, Cape Coral, Florida; telephone 1-239-574-0530 for assistance, if hearing impaired, telephone the Florida Relay Service Numbers, 1-800-955-8771 (TDD) or 1-800-955-8700 (v) for assistance.

If a person decides to appeal any decision made by the Board/Commission/Committee with respect to any matter considered at such meeting or hearing, he will need a record of the proceedings, and for such purpose, he may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is based.

Item 3.A. Number: 3.A. Meeting 5/15/2019 Date: APPROVAL OF MINUTES

# AGENDA REQUEST FORM CITY OF CAPE CORAL



TITLE:

March 20, 2019 Meeting Minutes

SUMMARY:

# ADDITIONAL INFORMATION:

# ATTACHMENTS:

# Description

D March 20, 2019 Meeting Minutes

**Type** Backup Material

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#### MINUTES FROM THE REGULAR MEETING OF THE CAPE CORAL TRANSPORTATION ADVISORY COMMISSION (CTAC)

#### Wednesday, March 20, 2019

#### Conference Room 220A

9:00 a.m.

Meeting called to order by Chair Gunter at 9:03 a.m.

ROLL CALL: Carioscia, Cosden, Gunter, and Stokes were present. Mayor Coviello arrived at 9:04 a.m. Alternate Williams was excused.

Also Present: John Szerlag, City Manager Paul Clinghan, PW Director Mark Ridenour, PW Facility Projects Manager Persides Zambrano, PW Planning and Permitting Manager William Corbett, PW Traffic Engineer Stephanie Smith, PW Design & Construction Manager Maureen Buice, Public Information Specialist Tessa Heines, PW Engineer John Castle, PW Senior Project Manager David M. Newlan, Chief of Police

### APPROVAL OF MINUTES

### January 16, 2018 Meeting Minutes

The minutes of the CTAC meeting of January 16, 2019 were presented for approval.

Commission Member Carioscia moved, seconded by Commission Member Stokes, to approve the minutes from the January 16, 2019 meeting as presented. Voice Poll: All "ayes." Motion carried.

#### **PUBLIC INPUT**

No speakers.

### BUSINESS

#### S.E. 47th Terrace Streetscape Project Update John Szerlag, City Manager and Paul Clinghan, PW Director

City Manager Szerlag and PW Director Clinghan provided the following PowerPoint presentation:

- S.E. 47<sup>th</sup> Terrace Streetscape
- Questions

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City Manager Szerlag stated the Streetscape Project was essentially finished. There are still minor punch list items to do. He noted there were two budgets: CRA Revenue and Utilities. The project was on time and under budget. The City Council and the CRA had discussed some enhancements to consider at the finish of the project. At the last CRA meeting, the CRA approved enhancements for kiosks, cameras, fiber optics cable, and Wi-Fi. He noted that the item for License Plate Readers would be on the April 1, 2019 Council meeting agenda.

Chief Newlan explained the following: cameras that scan license plates for crime deterrent, amber and silver alerts, and sharing data through this system between cities. This tool has been useful and is being used by many departments.

Chair Gunter inquired if the cameras are stationary.

Chief Newlan responded they are stationary, but they can be put on trailers and moved throughout the City. They have multiple purposes since they can also be used as a radar detector.

Chair Gunter questioned if there were any in the City now.

Chief Newlan stated there were a couple on trailers and on one of the police vehicles.

Chair Gunter inquired if the County had any of these on the bridges.

Chief Newlan stated the County, as well as Fort Myers, has some on trailers. He noted they were working with them to place them in stationary locations.

Commission Member Stokes inquired how the data would be kept private.

Chief Newlan responded that this was only for law enforcement use and not for personal reasons, which would be considered a violation. When searching for a license plate, the reason for the search must be indicated, as well as the case number.

Vice Chair Cosden inquired how many would be installed.

Chief Newlan stated they were looking at putting eight on SE 47<sup>th</sup> Terrace. They will be placed in areas that would capture the vehicles pulling into or out of the parking lots on 47<sup>th</sup> Terrace. He noted wiring was already installed.

City Manager Szerlag inquired if these were public parking lots.

Chief Newlan responded in the affirmative.

Commission Member Carioscia inquired if cameras will be permanent.

Chief Newlan responded in the affirmative.

Commission Member Carioscia agreed that this was a great idea.

### City-Owned Street Lights on Cape Coral Parkway Mark Ridenour, PW Facility Projects Manager

PW Facility Projects Manager Ridenour provided the following distributed PowerPoint presentation:

• Cape Coral Parkway Street Lights and Median Lights

Director Clinghan explained the following:

- Option #1 Streetlights to remain Paint, replace globes, and replace with LED lights estimated at \$179,800
- Option #2 Replace streetlights with similar quality estimated at \$424,560
- Option \$3 Replace streetlights to match SE 47<sup>th</sup> Terrace estimated at \$762,700
- All streetlight options do not include cameras or Wi-Fi.
- CRA approved \$20,000 to install 12 volt up lights on the remaining small palms in the narrow medians

Director Clinghan noted this was presented to the CRA, but there was no decision made.

City Manager Szerlag stated that as the CRA Director, this would be discussed further.

<u>Chair Gunter</u> inquired if it would be premature to have a discussion about this topic before the CRA discussion.

City Manager Szerlag did not believe so. He would share any discussions with the CRA.

<u>Chair Gunter</u> stated there was a dire need to do something. He opined that his preference was Option #1, which would take care of the aesthetics problem and would be the most cost effective.

Director Clinghan asked Mr. Ridenour how often they would need to be re-painted in Option #1.

Manager Ridenour stated a high-quality paint would last 15 to 20 years.

Commission Member Coviello inquired if the streetlights were in good structural shape.

Manager Ridenour responded in the affirmative as the streetlights are cast aluminum. He stated that replacing the globes with the LED globes would eliminate any maintenance concerns.

<u>Commission Member Stokes</u> concurred with Chair Gunter concerning the price for Option #1 and opined that this option would be the most cost effective.

Commission Member Coviello also agreed.

Vice Chair Cosden questioned the sharing of the cost with the CRA.

<u>Chair Gunter</u> stated that even if the Committee chose Option #1, the CRA may be able to share the cost—some type of mutual percentage that each entity could pay.

<u>Commission Member Coviello</u> inquired if the idea would be to match the existing colors on 47<sup>th</sup>.

Manager Ridenour stated changing colors would be acceptable.

Director Clinghan stated they would provide the information about any extra cost.

City Manager Szerlag stated that as the CRA Director, he would be forwarding the recommendation of Option #1 to the Board.

#### Cape Coral Parkway Traffic William Corbett, Traffic Engineer

Traffic Engineer Corbett provided the following PowerPoint presentation:

- Cape Coral Parkway Traffic Issues
- Cape Coral Parkway Traffic Solutions 5 on-street parking spaces eastbound and 56 on-street westbound
- Cape Coral Parkway Traffic Solutions Del Prado accommodations
- Cape Coral Parkway Traffic Solutions Collecting Data

Director Clinghan mentioned that the Staff is performing a cost-benefit analysis to purchase an in-house traffic program instead of hiring an outside consultant. There are ranges of software programs available, and the Staff would be looking at the lower end programs.

Chair Gunter inquired if a price has been determined.

Engineer Corbett responded that no prices have been determined for the software at the moment and there was ongoing research with vendors to identify the best product that would meet the City's needs.

City Manager Szerlag mentioned that he was familiar with the transportation network simulation analysis program and explained how the software would benefit the City.

<u>Commission Member Coviello</u> mentioned the issues on the other side of the bridge at McGregor which causes backup eastbound. He questioned how to reach out to the MPO and FDOT about considering a study.

City Manager Szerlag noted that he and Lee County Manager Desjarlais have been discussing a potential Master Transportation Plan which would involve County roads in the City, as well as the extensions of the roads from the bridges. He noted that the expectation would be to introduce a plan that would be approved by both the City Council and the County Commissioners in the next couple of months.

Commission Member Stokes responded that he looked forward to the results.

Engineer Corbett mentioned that the County has already initiated a study at the McGregor location to evaluate some lane assignment changes which may help with the flow.

<u>Commission Member Coviello</u> questioned if there would be work done at that intersection or only studies.

Engineer Corbett stated that once the study is completed, the results should identify the potential for some projects to enhance the traffic at that intersection. It would be up to the City Council and City Management for funding of those types of projects.

Discussion held regarding:

- Eliminating left turn during peak hours eliminate
- Utilizing that extra lane to get cars through the intersection
- Alignment issue on the left turn lane
- Issues with Del Prado three left turn lanes going onto Cape Coral Parkway
- Evaluating changes during simulation and study
- Conversion of lanes and weaving conflicts among vehicles due to lane reductions
- Benefits of purchasing an in-house traffic software
- Discussion about replacement of the westbound span in 2028
- Cost would be approximately \$80 million, deck would accommodate three lanes
- Eastbound span still pending for future planning
- Maintaining, closure, and extension of lanes at the intersection

<u>Chair Gunter</u> requested the Commission review the handout of the aerials that he provided before the start of the meeting.

City Manager Szerlag inquired about the timeframe for completing the analysis and whether it would be better to go in-house or out-house with the program. His second question was when this would be presented to the City Council.

Engineer Corbett responded that the quotes have been received from the consultants to complete the work, and they are waiting on the vendor to provide the cost for the software. He reported that data has been collected and more would be collected for the next 30 days. If the software is purchased, he anticipated that would be completed in the next 60 to 90 days; he emphasized closer to 90 days including the purchasing process. For the consultant, the time would be six to eight weeks.

Director Clinghan stated that the target would be to have data available before the hiatus.

<u>Chair Gunter</u> mentioned that this item was placed on the agenda because of the City Manager's recommendation for density increase in the South Cape. He agreed with increasing the density to help bring in development to the City. However, the roadways and infrastructure in those areas must be evaluated to make sure that the increase could accommodate this change. He would be in favor of enlarging the turn lane and removing the other lane. There is another route of travel so that businesses would not be affected. He stated once the study has been completed in 60 days, he would like that brought before the CTAC for a final decision.

Engineer Corbett responded in the affirmative.

# Chair Gunter asked for a consensus from the Commission to move forward on the information presented today.

#### Consensus agreed with the suggestion.

<u>Chair Gunter</u> summarized that both City and County would need to work together on this project. He also discussed the second printed handout of Cape Coral Parkway dealing with Coronado Parkway and Del Prado Boulevard. The enlarged aerial printout showed two traffic signal lights between two points. He suggested that the lights be put on a flashing time period to see if this would help with the traffic.

Engineer Corbett requested clarification for this suggestion. Would the left turns be from the side streets on to Cape Coral Parkway?

<u>Chair Gunter</u> stated it would be the left turns from the north or south side streets, you would not be able to turn left on to Del Prado to head east. On the south side of Cape Coral Parkway, you would not be able to turn off and go west on Cape Coral Parkway, only during peak traffic times. Traffic traveling on Cape Coral Parkway could still make a left or right turn on to those streets.

Engineer Corbett noted that the through movements would also need to be closed.

Chair Gunter responded in the affirmative.

Engineer Corbett stated this would be closing all entering traffic onto the main line, except for the right turns.

<u>Commission Member Carioscia</u> inquired if pedestrians would be impacted by synchronizing the lights between Coronado and Del Prado. He suggested that the lights be synchronized for faster usage.

<u>Vice Chair Cosden</u> inquired how does the process work to find out if the options would work or not.

Engineer Corbett responded that travel time runs would be completed and data collected.

City Manager Szerlag stated that given the growth the City would undergo, there are different scenarios to be considered in the cost-benefit analysis of an in-house versus an outside consultant. If the program is purchased, there would be virtually an unlimited number of experiments that could be conducted.

<u>Commission Member Stokes</u> agreed with the City Manager on not having to pay out and would rather keep it in-house.

Discussion held regarding studies required to select the best scenario.

# *City Manager Szerlag inquired if CTAC would be in agreement to purchase the program. Consensus agreed pending the costs and being presented to Council.*

<u>Vice Chair Cosden</u> recommended that it be shown how many times we have hired consultants and the costs associated so that it could be evaluated which option would be best.

City Manager Szerlag agreed.

Chair Gunter inquired if there are personnel that could run the software.

Engineer Corbett responded there would be some training which could be handled with the existing staff.

City Manager Szerlag stated that there was also the possibility of the software being shared with the County. He would contact the County Manager.

City Manager Szerlag left the meeting at 9:41 a.m.

# Median Landscape Design Sample Plans Max Spann, Landscape Architect, CPH

Engineer Corbett introduced Max Spann, CPH Registered Landscape Architect, to discuss the Median Landscape Design Sample Plans.

Director Clinghan and Engineer Corbett mentioned that the changes requested by the Board were implemented.

Mr. Spann presented the following slides:

- Cape Coral Median Landscape Templates
- FDOT Safety & Design Standards
- Plant Lists
- Cost Translation
- Proposed Landscape Plan
- Proposed Landscape Plan (continued)
- Proposed Landscape Plan (continued)
- Trees
- Palms
- Shrubs
- Shrubs (continued)

Discussion held regarding the following:

- Irrigation system
- Xeriscape not requiring a lot of irrigation

<u>Commission Member Coviello</u> inquired if there was a comparison over a ten-year span for installing irrigation (one-time cost) versus utilizing the water truck with a crew. Engineer Corbett stated that this could be evaluated as labor versus infrastructure, but there would still be a cost for the water.

Mr. Spann continued with the presentation as follows:

• Proposed Landscape Plan - Tropical High Intensity (Example)

Engineer Corbett mentioned that this example shows more majestic palm trees. If other types of smaller palms are used, then the density would be increased.

Director Clinghan added that the cost would be affected by curbing and irrigation.

Mr. Spann continued with the presentation as follows:

- Proposed Landscape Plan Tropical / Shade Medium Intensity (Example)
- Proposed Landscape Plan Xeriscape Low Intensity (Example)

Chair Gunter questioned what the timeframe was for Mr. Spann.

Mr. Spann stated he anticipated to be completed by April 1<sup>st</sup>.

Director Clinghan stated that the plan would be to have the information by the next CTAC meeting.

<u>Commission Member Stokes</u> mentioned that he was interested in the costs associated with the proposals, he requested a low and medium cost. He would like to keep it at the lower cost, so there could be more of these projects.

Director Clinghan responded that he would present medians per mile.

Chair Gunter inquired on issues in the UEP areas.

Director Clinghan stated they were already planning.

Chair Gunter inquired about the issue with the Streetscape project area.

Mr. Spann responded that the selected trees and the specifications of the trees did not change except for stakeholders' request of certain tree types. The contractors did not meet the request, and what he was able to find in the field was less than standard. He reported that we were forced to install substandard based on height but not quality.

Director Clinghan mentioned that there have been replacements of trees throughout the City. The next step would be discussing the contract since the City did not get what was specified per the contract and obtaining some type of credit.

Mr. Spann stated that the Geiger trees that were installed were 3-4 feet below height standard specifications. They were at least two inches below standard. Those trees have already put on about a half inch of caliper since installation. When we went to Homestead, we picked out new Geiger trees, but they did not re-install new Geiger trees. Mr. Spann stated that he would include this recommendation in his final report.

Commission Member Stokes inquired how much credit would the City be getting.

Mr. Spann stated he did not do the calculation on this yet.

Chair Gunter requested that this information be available by the next meeting.

Mr. Spann mentioned that he would provide whatever information is available to the Staff.

Discussion held regarding prior landscaper company and not fulfilling contract:

- Purchase of plants in December 2017 January 2018
- Standard to deliver
- Negotiations issues

<u>Commission Member Coviello</u> inquired if there were any grants or programs that would fund landscape medians.

Mr. Spann responded that there are different types of programs available.

PW Planning and Permitting Manager Zambrano mentioned that the landscaping on Pine Island Road was a grant. FDOT provided the grant, and the City did the design. That grant program was only for State roadways.

Director Clinghan stated that this item would be researched for local roads grants.

Discussion held regarding:

- Look into streetlights and landscaping funding programs
- Finding money elsewhere to contribute

Mr. Spann continued with the presentation as follows:

• Trees – Plant Lists & Specifications

Director Clinghan mentioned that North of Pine Island Road was still being improved.

Vice Chair Cosden stated that the maps should be updated to report changes accurately.

Mr. Spann continued with the presentation as follows:

- Palms Plant Lists & Specifications
- Shrubs Plants Lists & Specifications

Mr. Spann summarized that they would present more information to include costs at the next meeting.

### Adopt a Median Ordinance William Corbett, Traffic Engineer

Engineer Corbett presented the following PowerPoint slide regarding this item as follows:

• "Adopt-a-Median" Ordinance Revision

Director Clinghan mentioned that the major change was that the City would take over the maintenance of the medians.

<u>Commission Member Carioscia</u> discussed the email he sent to Public Works regarding the issue with Oasis. He inquired if it has been resolved.

Director Clinghan stated that was a site visibility issue which was resolved. Manager Smith concurred.

#### Median Improvements Stephanie Smith, PW Design and Construction Manager and William Corbett, Traffic Engineer

Manager Smith provided the following update on the Median Improvements as follows:

- Median Improvements
- Tree Replacement Hurricane Irma Loss Total of 588 trees lost
- Tree Replacement Hurricane Irma Loss Remaining 469 trees to be replaced
- Tree Replacement Hurricane Irma Loss Tree Replacement Phase II
- Median Landscaping Capital Funds

Director Clinghan reported that the Coronado project was put out for bidding, but there were no bid responses. The bid would be relisted.

Engineer Corbett continued with the presentation as follows:

- Median Landscape Project Priority List
- Median Landscape Project Priority List (continued-actual priority list)

Engineer Corbett noted that the Median Landscape Project Priority List was developed with the previous CTAC composed of prior City Council Members. He requested feedback from the current CTAC as there were concerns with the order and requested feedback to incorporate in the changes.

Manager Smith stated that when North 2 is completed, Staff could review the roads and evaluate where to adjust the list. She mentioned that what set the current priority list was the traffic count. She requested the direction from the CTAC.

Engineer Corbett mentioned that the list would be a 10-year project list.

<u>Vice Chair Cosden</u> mentioned that a resident inquired about landscaping in the area on Chiquita from Cape Coral Parkway to El Dorado Parkway.

Engineer Corbett reported that this area was not curbed. At the south end, the last median has been fully landscaped and curbed, and it is maintained by Cape Harbour. He noted that the first median had some plantings that were donated by a resident and were impacted by the utility project. Staff was working on some plantings at the next south median. Other than the two far ends, there was no substantial landscaping. There are existing trees and grass, as well as irrigation in the right-of-way, but area is not curbed.

Manager Smith stated that it was not on the top ten list due to a lesser amount of traffic.

Vice Chair Cosden questioned how El Dorado Parkway East compared to Pelican.

Manager Smith stated Pelican was already landscaped.

Discussion held regarding:

- Adding to the list this particular intersection (Chiquita from Cape Coral Parkway to El Dorado)
- Median Landscape Project Priority List would be ever-growing and fluid
- Viscaya Parkway (SE 24<sup>th</sup> Avenue to Del Prado) moved to the end of list
- Original list based on high traffic and high visibility

<u>Chair Gunter</u> stated that the CTAC needs to address a methodology on how to move forward. Will destination points or traffic count be used as criteria? He opined that destination points should be addressed first, then move out from the main thoroughfares. He discussed that Chiquita from Cape Coral Parkway to El Dorado is a destination point going to Cape Harbour, as well as Tarpon Point on Skyline. He suggested that the plan would be to follow this strategy or come up with something different. Once that is established, then Committee could identify the roads accordingly.

<u>Commission Member Stokes</u> agreed with many of the items mentioned by Chair Gunter. He noted if Seven Islands takes off, then that item would need to be added to the list. He noted improvements should be done throughout the entire City.

<u>Commission Member Carioscia</u> inquired what has been accomplished on the list presented.

Director Clinghan responded that Coronado, #2 on the list provided, has been completed. He suggested that the list would be updated to reflect those still in progress and remove the completed areas.

# Consensus agreed to remove #5 from the list provided in the meeting packet.

Director Clinghan responded that they would look at destination points and provide an updated spreadsheet.

#### Landscape Enhancements at the Cape Coral Parkway Bridge William Corbett, Traffic Engineer

Engineer Corbett demonstrated the Landscape Architect Software on printouts about the Landscape Enhancements at the Cape Coral Parkway Bridge and provided the following information:

- Landscape Architect Software Rendering Tool Examples
- Example 1: Before
- Example 1: Rendering
- Example 2: Before
- Example 2: Rendering

Director Clinghan stated that it would be beneficial in the Adopt-a-Median.

Engineer Corbett presented the following PowerPoint presentation with the artistic rendering as follows:

- Landscaping at CC Pkwy Bridge, Bernice Braden Park (east of Del Prado)
- Aerial Map of Cape Coral Parkway Roadside ownership at Bridge
- Staging area for 4-yard dumpsters Cape Coral Parkway Special Event Plan
- Cape Coral Parkway Roadside at Bridge artistic rendering with trees

Chair Gunter inquired about the rendering provided of 30-40 trees.

Engineer Corbett stated that the fee of the trees would need to be taken into consideration based on the tree type and specifications. There would be minimal irrigation costs.

Discussion held regarding a private contractor working in the area located near the Chamber of Commerce.

<u>Commission Member Coviello</u> mentioned the concern from the Friends of Wildlife who inquired about the lot mowing near gopher tortoises.

Director Clinghan explained the training that the Staff would be receiving in April.

Manager Smith noted that on a yearly basis, the outside contractors who has been used for the past several years meet with Friends of Wildlife for training. She mentioned that CBI handles the training for the lot mowing and awareness of the burrowing owls. Discussion held regarding the property owned by the Chamber of Commerce.

Director Clinghan mentioned the issue with paving nearby burrowing owls.

Manager Smith responded that there has been a plan worked out and a certified ecologist would be on site during the work.

Vice Chair Cosden agreed with the dialogue, comments, and plan of action.

Chair Gunter inquired about a cost analysis on the design for next the meeting.

Director Clinghan stated they could have a cost which would come out of the General Fund and would inquire with Lamar on other details.

Chair Gunter stated that he would be in favor of Royal Palms.

Commission Member Coviello inquired about additional signage that may be needed.

Chair Gunter stated that further discussion should take place when figures are available.

<u>Commission Member Stokes</u> commented on entrances to other cities and counties where there is shrubbery at the bottom of signage.

Director Clinghan stated there were pictures that would be shared further in the presentation.

### Alley Paving Stephanie Smith, PW Design and Construction Manager

<u>Chair Gunter</u> requested to discuss this item due to the prior discussions of completing the alley paving and undeveloped roadways. He voiced his concerns with the paving of the alleys and who would be responsible for the costs.

Manager Smith presented the following PowerPoint slides on this topic as follows:

- Alley Paving Program Update Approximately .71 miles of alley remaining
- Alley Paving Program Update Unimproved gaps between paved sections

<u>Commission Member Coviello</u> suggested to explore how to get the alleys paved by the business owners and to review funding options.

Manager Smith stated that the designs would be analyzed and determine the funding options. In the meantime, she would work with the developers about holding off paving.

Director Clinghan stated that details would be worked out. The key would be to move forward and obtain a design.

Discussion held regarding:

• Funds in paving program

- Moving from spot paving to alley paving
- Cost effectiveness to use this option
- \$6.5 million project for paving
- Obstacles with gas prices
- 4-5 years for local roads
- 3-4 years paving plans
- Utilize all the funds allocated for paving
- Major roads still require work

Manager Smith continued with the presentation as follows:

- Alley Paving Program Update Procurement to issue Request for Proposals
- Alley Paving Program Capital Fund Current FY 2019 Balance \$1,406,000
- Alley Paving: Completed and Future

Discussion held regarding the funds that would be discussed in the upcoming budget.

#### Streetlight Program William Corbett, Traffic Engineer

Engineer Corbett discussed the following PowerPoint slides:

- Streetlight Program Priority 1
- Streetlight Program Priority 2 & 3
- Aerial Map FY 2015-2019 Streetlight Program

Engineer Corbett noted that LCEC no longer has the high-pressure sodium lights for the 100-watt street lights which are found in the residential neighborhoods. They are only using the 53-watt LEDs which are power savings and last longer. High wattage lights on the major roads and intersections are high-pressure sodium and LCEC has not determined to eliminate these lights in those locations as it is not cost effective.

Discussion held regarding the lifespan of the lights.

Engineer Corbett stated when an older high-pressure sodium light goes out, they do not replace the bulb, instead it is replaced with the LED.

<u>Commission Member Stokes</u> inquired about the day-light savings time change. He recommended that the budget for lighting near bus stops be increased.

Engineer Corbett responded that there are over 400 semi-permanent bus stops, pick-up or drop-off during dark hours, on the list—they do not anticipate moving them and they are utilized by multiple schools.

Discussion held regarding:

- School Choice in Florida
- Frequent change of bus stops
- Looking into other options, such as solar and stand-alone type of lighting

- 2017 cost benefit analysis was done by Staff looking into various options including solar and it was determined that utilizing LCEC was the most efficient at that time
- Removable lighting requiring structural analysis and foundation requirements
- Semi-permanent bus stops
- Random changes by bus drivers of the pick-up areas
- Grant and funding opportunities to be explored

Manager Smith addressed the concerns of street lights being out. She reported that LCEC checks at least twice a year the major roads lighting. Her department implemented checking on the lightings in the local areas and report any repairs issues to LCEC. The City has taken on the responsibility to make sure that the lights are monitored as the City pays for this cost.

Commission Member Coviello suggested that this data be published on social media.

<u>Chair Gunter</u> suggested to allocating additional funds toward street lights and increasing the \$100,000 budget.

Engineer Corbett added that at this particular time, the Staff was instructed by Council not to install street lights upon resident request. The Staff compiled a list of 350 requests for street lights in neighborhoods. The residents have been informed that they have the option of contacting LCEC on their own and installing a security light on their property. He summarized that the Staff has been focusing on the high priority locations.

Discussion held regarding how long it would take to complete the lights project; major road intersections to be completed in 2020; major road corridors and segments possibly 5 to 8 years; cost to install a single street light ranges from zero dollars upfront cost to \$3,500 based on the existing infrastructure.

#### Citywide Welcome Signs William Corbett, Traffic Engineer and Maureen Buice, Public Information Specialist

Engineer Corbett and Public Information Specialist Buice announced that after it was discussed at City Council, they were assigned the task to research sign samples within other municipalities in the State of Florida. Engineer Corbett reported the following slides:

- City of Cape Coral "Welcome" Sign Examples
- Existing Welcome Signs Cape Coral Bridge
- Existing Welcome Signs Midpoint Bridge
- Existing Welcome Signs Del Prado Blvd. North
- Existing Welcome Signs Del Prado Blvd. North (continued)
- Existing Welcome Signs Midpoint Bridge and Hancock Bridge Parkway
- Welcome Signs Other Communities Tier 1 Clearwater
- Welcome Signs Other Communities Tier 1 Fort Lauderdale
- Welcome Signs Other Communities Tier 1 Hollywood

- Welcome Signs Other Communities Tier 1 Miami Gardens
- Welcome Signs Other Communities Tier 1 Port St. Lucie
- Welcome Signs Other Communities Tier 1 St. Petersburg
- Welcome Signs Other Communities Tier 2 Palm Bay
- Welcome Signs Other Communities Tier 2 Pompano Beach
- Welcome Signs Other Communities Tier 3 Orlando
- Welcome Signs Other Communities Tier 3 Example of in-house capability
- City of Cape Coral Entrance Points Map

<u>Vice Chair Cosden</u> opined her concerns with A. and B. existing signs demonstrated in the PowerPoint slide.

Discussion held regarding the Lamar sign that says, "Welcome to Cape Coral."

<u>Commission Member Coviello</u> suggested that the City needs to be consistent with the same signs at all entry points.

Engineer Corbett stated that options were provided to be utilized in different entrance points based on the traffic volume.

Commission Member Stokes mentioned that the design is also based on the area size.

Discussion held regarding the design, size, and placement of signs throughout the City.

Engineer Corbett continued with the presentation as follows:

• Welcome Sign Potential Costs

Further discussion held regarding the logo and types of designs (reviewal of pictures).

Chair Gunter requested some options to be brought to the CTAC at a future meeting.

Director Clinghan responded in the affirmative.

Vice Chair Cosden left the meeting at 11:27 a.m.

### Burnt Store Road Improvements Persides Zambrano, PW Planning and Permitting Manager

Manager Zambrano provided an overview on the Burnt Store Road Improvements and provided the following summary to the Joint Lee Charlotte County-Punta Gorda MPO meeting held on February 22, 2019:

- Status of the Burnt Store Road Corridor Improvements
- Map of Burnt Store Road Corridor in Charlotte and Lee Counties
- Discussion Item: Burnt Store Road Corridor Improvements Status Report
- Background
- Project Development Lee County and Charlotte County
- Recommendation

Discussion held regarding all the segments to be completed by 2023.

John Jacobs, President of the NW Neighborhood Association, mentioned that Vince Miller had been in communication with the association regarding Burnt Store Road. They had two options that they were considering for the south segment which was presented to the membership, which 75% chose Option 1 with one exception of adding two lanes as a lefthand turn from Burnt Store Road onto Pine Island Road. Recently, he was contacted by Mr. Miller with an update that Option 1 was adopted and now in the planning stages.

#### MPO Issues Persides Zambrano, PW Planning and Permitting Manager

Manager Zambrano distributed the agenda for the MPO meeting scheduled for 9:00 a.m. on Friday, March 22, 2019, at the Lee County Administration East Building, 2201 Second Street, Room 118, Fort Myers. She reviewed the agenda items to be discussed and suggested action/comments. She highlighted the following items on the agenda: 1) Follow up on the SR 80 Sidewalk Project from Shoreland to Buckingham Road. She discussed the following:

- FDOT allocated \$2.7 million for construction of this 6.8-mile sidewalk project
- If deleted by MPO, only \$222,000 could come back to Lee County
- The \$222,000 could be used to design three sidewalk projects in Lee County including sidewalks on SW Santa Barbara Place (from north of Veterans to Nicholas Parkway)
- Bike-Ped Committee, TAC and CAC are recommending keeping the SR 80 Sidewalk project as planned.

### **OLD BUSINESS**

None.

# MEMBER COMMENTS

None.

### Time and Place of Next Meeting

The next regular meeting was scheduled for Wednesday, April 17, 2019, at 9:00 a.m. in Conference Room 220A.

### Motion to Adjourn

There being no further business, the meeting was adjourned at 11:37 a.m.

Submitted by,

Betty Castillo Recording Secretary

Transcribed by B. Kerr 4/2/19

Item Number: 5.A. Meeting Date: 5/15/2019 Item Type: BUSINESS

# AGENDA REQUEST FORM

CITY OF CAPE CORAL



### TITLE:

2018 Toll Revenue Report - Eileen Webster, Lee County D.O.T. Fiscal Manager

SUMMARY:

# ADDITIONAL INFORMATION:

ATTACHMENTS:

# Description

2018 Toll Revenue Report

**Type** Backup Material

#### Excess Bridge Tolls -Cape Coral/Midpoint Bridges Presentation of 21 years of historical data Net Excess Toll Revenues

Date Updated: 4/5/2019

#### INAUDITED DRAFT

						[	20 Yr Total
	1998 - 2012	2014	2015	2016	2017	2018	
Gross Revenue	400,001,651	27,850,410	29,315,247	30,844,890	30,573,049	32,281,914	601,608,92
Operating Expenses	364,303,437	7,555,404	7,338,120	6,746,787	6,961,003	7,774,681	407,948,29
Net Revenue	384,958,104	20,295,006	21,977,127	24,098,103	23,612,046	24,507,233	193,660,62
Annual Debt Service	186,363,793	11,121,882	10,404,919	10,237,625	9,823,794	13,814,646	250,589,810
Other Debt/Expenses	168,498,369	2,155,145	2,173,268	1,811,382	1,832,784	47,056	181,243,32
Net Toll Revenues after Debt Service and Expen	ses 30,095,942	7,017,979	9,398,940	12,049,096	11,955,468	10,645,531	89,451,000
Projects Funded by Tolls (marked as completed)							
4085 *Expressway Corridor Study	976,528		1	Ĩ			976,528
4080 *Toll Equipment	406,260			1			406,260
4087 *Leeway Svc Ctr Rennovations	424,437						424,437
5020 *Veterans Mem/Surfs-Chiq	233,249						233,249
4095 *Burnt Store & Ceitus Pkwy	273,107						273,10
6058 *Veterans Pkwy Access-Everest	411,915						411,91
4089 *Sunpass Integration	581,467						581,46
6746 *Burnt Store Embers Turn Ln	178,589						178,58
5029 *Veterans Pkwy @ Del Prado	598,852						598,85
5600 *Fiber Optics	771,650						771,65
5039 Vehicle Enforcement System	2,004,908						2,004,90
6068 SeGo Implementation	346,032						346,03
5054 Colonial Express Lanes	2,198,454						2,198,45
5601 Cape/Midpoint Plaza Reconst	15,487,538						16,356,365
5815 Cape Coral Toll Plaza Rehab	3,048,880						3,048,880
6755 Veterans/Santa Barbara Intersection	2,349,476						2,349,476
5038 e-Arcs Upgrade for Leeway	743,872						757,39
Projects funded by Tolls (in process)							-
4088 Burnt Store Widening	8,153,784	882,743	1,385,489	4,872,528	7,015,378	4,184,768	27,207,927
6760 Cape Painting					45,970	3,575	49,545
Various Software Updates	33,379	252,909	l	31,216	89,804	205,949	646,636
Excess Applied to Projects	39,222,377	1,135,652	1,385,489	4,903,744	7,151,152	4,394,292	59,821,675

Accumulated Excess Tolls	(9,126,435)	5,882,327	8,013,451	7,145,352	4,804,316	6,251,239	29,629,325

Data Source: Net Surplus Toll Revenues

Unaudited Excess Revenues Over Expenditures, Lee County, Clerk of Courts Finance Division, provided by E. Webster

- > Gross Revenues: all revenues, including Leeway
- > Operating Expenses: toll bridge expense, excluding debt, capital, and Leeway
- > Annual Debt Service: senior debt principal and interest (bond payments)
- > Other Debt/Expenses: fixed assets, FDOT Loans, SIB Loans, Cap & Tran Bond, Renewal and Replacement Requirement, Leeway Expenses, adjustments (accruals and interest)

Data Source: Projects Funded by Tolls

- > Project History which has some or all Toll-Funding, spreadsheet provided by E. Webster
- > Projects Funded by Tolls: columns contain amounts used from surplus tolls related to Cape Coral and MidPoint Bridge s

Excess Bridge Tolls -Cape Coral/Midpoint Bridges Data provided by: E. Webster Lee County DOT Cape Coral And Midpoint Bridge Project Budgets from FY2018/19 to FY2022/23 In Adopted Capital Improvement Program

UNAUDITED

	Estimates for future years							
	2018/19	2019/20	2020/21	2021/22	2022/23	Long Range Projects		
Available Excess (carried								
Forward)	29,629,325	11,872,798	20,352,798	29,032,798	47,012,798			
Estimated Future Annual Excess*	3,800,000	8,600,000	17,600,000	18,100,000	18,400,000			
Subtotal	33,429,325	20,472,798	37,952,798	47,132,798	65,412,798	-		
ects Budgeted with Tolls	19 656 072							
Burnt Store Road S-78-Tropicana	18,656,072							
	700 455							
	700,455							
Cape Painting MP and Leeway Painting 80%	2,080,000							
MP and Leeway Painting 80%		120,000	120,000	120,000	120,000			
	2,080,000	120,000	120,000 200,000	120,000	120,000 10,400,000			
MP and Leeway Painting 80% Toll Interoperability (80%) Toll System Replacement 80%	2,080,000	120,000		120,000		73,235,96		
MP and Leeway Painting 80% Toll Interoperability (80%)	2,080,000	120,000	200,000	120,000		73,235,96 75,033,56		

Balance	11,872,798	20,352,798	29,032,798	47,012,798	54,892,798	
Dalanoc	11,012,100	20,002,100	20,002,100	11,012,100	01,002,100	

\* based on budgeted revenue and expenses for the year
\*\* projects identified outside 5

Data Source: Net Excess Toll Revenues

Item Number: 5.B. Meeting Date: 5/15/2019 Item Type: BUSINESS

# AGENDA REQUEST FORM

CITY OF CAPE CORAL



# TITLE:

Median Landscape Templates and S.E. 47th Terrace Streetscape Update - Max Spann, Landscape Architect, CPH

# SUMMARY:

# ADDITIONAL INFORMATION:

# ATTACHMENTS:

# Description

Median Landscape Templates

**Type** Backup Material





Median Landscape Templates

60 05.14.19 / C10212 M2









Medium Intensity (Example)







Medium Intensity (Example)

Median Landscape Templates














PAGE 16							1. 1. T. 1.			
02:14:19 \ C10515	thoishing and hera search and and the best of a forommonor is ear sint to sear tho and the meas those until the Des to potential root on the used intervent in waiwey, and the potential of the potential of the busic of the granting growt areas.	theight of teup3						upphysion puppe (a		
UCD)	Variatel nego nol beels areas beved online analoes ways, meteres of the select of the beved areas. Beels for operation areas nego parallel previr areas		3020.	4060.				mupilisitel emolisyJ		brinsmeT blW
	Due to potential root damage the use of this trees is recommended to be used only in limited areas that have sufficient	tripied of laup	30-20	40.60			A STREET	Lysioma bahamensis		brinsmeT biW
Cape Coral	Not to be used in medians and/or pering lots where cancey clearances for vehicles is necessary. Les in areas where bee and cancey can spread. Laterai right of ways, wide medians with no sight restrictions can be loteil locations.	Equal to spread	50-52 57-52	50-52 (S-52				Acecta famesiana Myrica centera		Sweet Acacia Wirtle
第二人	Good plant to use in wet areas (e.g. detention areas)	beards of leup3	S1-01	1050.				andsig snonnA	elqqA bro9, elqqA rof9	Swamp Apple
0	Due to pice and potential root demoge the use of the tree is should be timed to meas. Built for open failentification of energy Should not be used immediately adjecent to walkways, medians and/or paved areas. Bailt for open failentification areas:	* Ingleri ot teup3	50-30	St-DC				slooiolle eurodrut.		Southern Redeeter
<b>N</b>	Due to helpit and spread, the use of this species that he restricted to areas with sufficient areas and nearby managed over overheed utilities:	bearqs samit č. t	32-50.	.001-SL				Pinus elliottii	Cuban Pine, Dade County Pine, Dade County Stash Pine, Pitch Pine, Stash Pine, South Florida Stash Pine, Swamp Pine	aniq rtzal2
2 0	Can be trained to be shrub form or can be tree form.	Equal to spread	5030.	.0E-SZ		Manager and Annual Contraction		Coccoloba uvitera	AW	Sea Grape
Media		Equal to height	12-50.	5060.		10,000		Pandanus utilis Bory	AN	Screw Pine
liar		Equal to height	50-52	St-SC				Chrysophyllum oliviforme		tesinites
E O		Equal to height	52-32	S109		1000		. հշծ տեսո և		Red Maple
an N		Equal to spread	10-12	SI-01	(			Caesaptinia pulcherrima (L.) Sw.	Peacock Flower, Barbados Pride	Poinclana: Dwart
e Coral Median Landscape Templates	Due to potential root damage the use of this tree is recommended to be used only in imited areas there autistient One to potential could not be used immediately adjacent to waikways, medians and/or parvel areas. Elect for open arealied green areas.	bearqs samit č. f	2060.	3040.				թեւօրիօւսա թւթւօշորսա	Yellow Flame Tree, Copper-Pod	Poinciana: Yellow
e en 🕑	Due to polivital ranse damage the use of this tree is recommended to be used only in finited areas there sufficient, One to polivital ranse. Each do the baread involves the set of the one of the one of the baread areas. Besid for received present areas.	beerqs semil 2.1	.09-05	3010.				Delonix regia (Bojer ex Hook.) Raf.	Poinciana Tree	Poinciana: Royal
pla		bearqs of leup3	5030.	12-52		1-41-60		Coccoloba diversifolia		Pigeon Plum
ates	Due to polivitation are a series of the tree of the tree is recommended to be used only in limited areas the tree sufficient. Due to polivitation areas, benefit investigation of the series of the series. Best for years areas, the series revealed group measures.	beands of teup3	.00109	4090,			D. Cas	Quercus virginiana Mil.		өмү-түкө
Contraction of the second		Equal to spread	1052	SE-0E		- hards		Megnolia grandiflora L.	Southern Magnolia, Little Gem	silongeM
		beards of leup3	12-52	50.40.	A State of the second			Elaeocethus decipens	and the second se	Abadeut Blueberty
	a con	3-5 o.c. (for shrub)/10-15 o.c. spread for tree form	.21-15	.SI9		12.6		Capparis cynophallophora		Jamaican Caper
<u>D</u>	Due to size and potentiative and the use of this tree of this tree is should be limited to where and potentiative address and potentiative address and the address and the address address address and the address a Decempendentiative address address Decempendentiation address ad	beards of leup3	42-90.	52-40.				Jacaranda mimosifolia		Jacaranda Tree
2		Equal to spread	12-50.	12-52				sixofimov xell	noqueY	Holly-Yaupon
	sejse to Bunad	Equal to spread	12-50	30-42				'rfenneve'S ateunatte x xall	KioH denneve2	Holly-East Palataka
	Can be used in medians, growth rate is slow and roots have not proven to be issues when planted in medians and/or position by allele	beards of leup3	52-20	52-20.			and set	Bursera simeruba		Oumbo Limbo
		Equal to spread	50.52	52-30.				Cordia sebestena L.	Constant States	Geiger Tree
	Can be trained to be shrub form or can be tree form.		.015	SI-01				Eorestiera segregata	"Florida Swamp Privet, and Southern Privet"	Florida Privet
	Can be trained to be sitrub form or can be tree form.	peauds of lenp3	.01 S	18-52				Citharexylum finiticosum	among epixela"	Fiddewood
	The burner strengtherwide the set of the set of the tree of the tree is included by each street sufficient depe trees and should not be used in mediations. Do not pace immediately edjacent to walkways, mediants and/or paved areas. Best for open intensityanalisi green areas.	peauds of tenb3	+.0507	.051001				muhadabi muhaaafia	Bald Cypress	Cypress-Baid
20		peards of leupa	SZ-SI	10-30	a second second			Lagerstroemia indica	Wuskogee	Crepe Myrtle
		5' a.c. (for shrub)//Equal to spread for tree form	50,-30.	57-00				Conocarpus erectus var.sericeus	boownothut Teves	boownothuB
peg		5 o.c. (for strub)//Equal to spread for tree form	5030.	St-02				Conocarpus erectus	Green Buttonwood	bcownoffuß
읖		beards of leup3	S1-01	1012		CV TOS		Callistemon citrinus or viminalis		Bottle Brush
Specifications	Due to portinitial root damage the use of this tree is recommended to be used only in imited areas that have sufficient. Due to portinitial root damage the use of this tree is recommended to be used only point and the point of the to available groot more:	bearqs of leup3	<i>0</i> 9-50	,0507				Bucida buceras	Shady Lady, Gregorywood, Oxhorn Bucida, Bucida (various)	Black Olive Tree
ti					Xerisape	Shade Tropical	×IM			
one	NOTES / COMMENTS	SPACING Recommended	OA3992 39UTAM	тныен еялтам	N	IOITADIJ99A EMEHT NA	WEDI	BMAN JADINATOB	OTHER NAMES	COMMON NAME
				REES		SELAND SECOND				

COMMON NAME	OTHER NAMES	BOTANICAL NAME	MEDIAN THEME APPLICATION	MATURE HEIGHT	MATURE SPREAD	RECOMMENDED	NOTES / COMMENTS
			Mix Shade Tropical Xerisape				
Palm-Alexander		Ptychosperma elegans		15-20	10-15	Equal to spread	Nerrowslim trunk paim. Can be found in multiple trunk clusters
Palm-Areca	Golden Cane, Yellow Butterfly, Madagascar, Areca lutescens	Dypsis lutescens (H. Wendl.) Beentje & Dranst.		25-35	10-20	Equal to spread	This species will be limited to select locations and will be considered on a case by case basis. Approval and/or rejection of this path will vary.
Palm-Bismarckia	Bismark, Bismarckia, Bismarkia	Bismarckia nobilis		30'-60'	15-20	Equal to height	Specing equal to height. This is a showy palm and needs pliently of room. Very susceptible to diseases and pest infestations.
Palm-Buccaneer		Psuedophoenix sargentii		10-25	8-15	Equal to spread	Very slow growing. Sometimes difficult to source palms greater than 5 o.a. height.
Paim-Canary Island Date		Phoenix canariansis					
Palm-Carpentaria		Carpentaria acuminata					
Palm-Christmas	Manila Palm, Adonidia	Veitchia merrilli		20-25	10-15	Equal to spread	Adonida mentili is synonomous with Veitchia mentili
Palm-Coconut		Cocos nucliera		35-40	15-20	Equal to height	Not to be placed in medians with high traffic (vehicle and/or pedestrian) volumes.
Palm-Foxtail		Wodyetia bifurcata		20-30	15-20	Equal to height	Watch for signs of Micronutrient deficiencies
Palm-European Fan							
Palm-King Alexander	Alexander Palm, Alexandra Palm, King Alexander Palm, Northern Bangalow Palm	Archontophoenix cunning- hamiana		20-40	10-15	Equal to height	Merrowdzim trunk pałm. Can be found in multiple trunk clusters
Palm-Latania Blue		Latania spp.		20-30	10-15	Equal to height	Similar appearance to Bismarckia. Also a red cultivar in some limited areas.
Palm-Majesty	Majestic Palm	Ravenee rivularis		15-20	10-15	Equal to height	Can be fast growing paim.
Palm-Montgomery		Veltchia montgomeryana		25-35	15-20	Equal to spread	They have combined the Vielchia montgomeryana with the vielchia modanielsii and lumped them together to make the vielchia arrecina
Palm-Palmetto (Silver)	Saw Palmetto (green/silver)	Serence repens		5-10	4'10'	Equal to height	
Palm-Palmetto (Scrub)	Scrub Palm, Scrub Palmetto	Sabal etonia Swingle ex Nash		3-5	3.5	Equal to height	
Paim-Paurotis	Everglades Palm	Accelorrhaphe wrightii		30	20	Equal to spread	
Palm-Piccabeen		Archontophoenic cunning- hamiana		20-30	10-15	Equal to spread	
Palm-Pindo		Butia capitata		15-20	10-15	Equal to height	
Palm-Pygmy	Miniature Date Palm, Pygmy Date Palm	Phoenix roebelenii		15-20	10-15	Equal to spread	
Palm-Reclinata		Phoenix reclinata		25-50	15-20	Equal to spread	
Palm-Ribbon		Livistona decipiens		30-50	15-20	Equal to spread	
Patro-Royal	Florida Royal Palm	Roystonea regia		50'-70'	20:25	Equal to spread	
Palm-Sabal	Cabbage Palm, Palmetto	Sabal palmetto		20'-40'	15-20	Equal to spread	
Palm-Spindle		Hyophorbe verschaffelti		20-25	10-15	Equal to spread	
Palm-Sylvester		Phoenix sylvestris (L) Roxb.		40'-50'	15-25	Equal to spread	
Palm-Thatch	Florida Thatch	Thrinax radiata		15-20'	5-10'	Equal to height	
Palm-Thatch (Silver)	Silver Thatch, Silverpalm	Coccothrinax argentata		5-20'	5-10"	Equal to spread	
Palm-Triangle	A DATE OF THE OWNER	Dypeis decaryi		25-35	10-15	Equal to spread	
Palm-Wax		Copernicia prunifera		25-30"	10-15	Equal to spread	
				MULCH			
COMMON NAME							NOTES / COMMENTS
Mulch-Cypress							3" loose depth
Mulch-Flora							3" loose depth
The second secon							3" loose depth



Cape Coral Median Landscape Templates



		peauds of jenb3	SZ-51	10.12		200			ridragatu jeboujcatu	Javing esanage	առքոնյ
PAGE 18		peauds of leupa	SI-01	10.12			No. of Concession, Name		Jatropha integerima compacta	Peregrina, Spicy Jatropha	Jatropha
02'14'19 / C10515	The second s	peards of leup3	.01S	SI-S					mubilin munimeel.		Jasmine-Star
==-									elidulov munimzel.		
UCD .		beards of leup3	.10. S	SI-12.		Carlo Carlo			(exe) multofoliqmiz munimzet.		xsW-enimzel.
G Cale		Equal to spread	2-10.	8-12			and one		munolitium munimeel.		VinvoQ-eniment
Cape coral	"Can be utilized as an understary free in the peraits and and final the period of the period of the period the drough and and final the period the period of the period the drough and the drough of the period of the period of the final screen to block an understable view.	beenqs at leup∃	.21-9	51-01					enoriqolleriqomyo sheqqe.D		Jamaican Caper
to Meria	and the second	2.00	J.+10.	1.3	and the second second			-	Bitofimov xell	Dwert Holly, Dwert Schilling	Brilling xell
10		beards of laup3	S1-01	5030.					llex cassine	A\N	Holly-Dahoon
Cape Medi	Can be spaced closer if desired. Used frequently in median locations to replace Indian Hawfaxms, few pest problems experienced	3-5 e.c.	5-2	3-t.					Flous microcarpa		Green Island Ficus
<u>10</u>	avita Nov	5 o.c. for hedge//space equal to	10-50.	51-01					Duranta erecta		Golden Dewdrop
	aviav	C o.c. for hedge/lepage equal to mot durit leukivitri form	1050.	10-12					Duranta repens		Golden Dewdrop
E P		beards of leup3	5.4.	1,-5,					Asparagus densifiorus	Wyers or Myers Asperagus	Foxtail Fern
<u>e</u>	Can be trained to be struct form or can be tree form.	語いの見ませる。	.015	S1-D1					Forestiera segregata	*Florida Swamp Privet, and Southern Privet*	Privida Privet
Cora 1 Landscape Te									Hamelia patens var glabra or compacta	Dwart Firebush	Fire Bush-Dwart
1 St (•)		A STREET AND A STREET AND A STREET	and the second	and the second states of the second states of the				- Aller and a	Hamelia patens	oviteN	Fire Bush
ä 🚬		beards of leup3	28.	9,-15,					Hamelia patens Jacq.	Scartet Bush, Hummingbird Bush	Fre Bush
<u></u>	Can be trained to be strub form or can be tree form.	3-2,00	51-01	12-52					Citherexylum fruticosum		Fiddlewood
g 🔛		peauds of lenb3	5.4	1-1					Dianella tasmanica		Flax Lity
		3-2.00	4:•0. 4:•0.	3-2.			_	Contraction of the local division of the loc	Tripsecum floridana		Fakahatchee Grass-Full Fakahatchee Grass-Full
ate	Numerous Cultivara Available	Equal to spread	5.50.	3.3.					Tripsenter foridanum		Energenchen Grees Dweit
ω I	Numerous Cultivers Available	200	3-6.	3-8.		-		-	Codiaeum variegatum		Craton
and the second second second second		3-2,000	2.2	5-2.			- Lange and a		enebirolt simeS	foorwornA strinoi H	Coonfie
		5 o.c. (for shrub)//Equal to spread for tree form	.91-2	31-E					Chrysobalanus icaco Horizantalis		Cocopium
		5 o.c. (for shrub)//Equal to spread for thee form	51-2	SI-E			22		Cltrysobalanus icaco L	Jeaco	Cocobjnu
		5 o.c. (for shrub)//Equal to spread for tree form	SZ-51	52-30					ຣາອາຫັນຊູ ສະນາວ & ຣອຂວາ ສະນາວ	elqqA rtafiq	Clusia
	Natal Plum is the largest of the three, and has a bit more of an open follage pattern to it. This cultivar is used mainly as an accent or foundation plant	3-2.00	.8.7	1:5.		24. ali		- Alegaland	Carissa macrocarpa	muit letel hum	mulg lateN hewG-assing)
Lew 1	This cuthvar is a compact, mounded shrub, makes a nice foundation plant. Has spreading habit and can be used as a ground cover shrub as well.	3-2.00	.9.9	2-1					Garissa macrocarpa	boowsog	Carissa-Borwood
	Emerald Blanket is the dwart cultiver, and its low spreading	3-2.00	.8.5	2:1					Carissa macrocarpa	Emerald Blanket	Certsse-Emerald Blanket
	Can be used for a string or vire if a creening guoses (Due to growth potential, recommend manhaing 10 bulks from treespearse, walls, radicd structures. Growth can be very aggressive and rampant. When used as a strub, often best responds when allowed to maturally form strappe in-level of heavy pruningcheping cuts. Aures' cuthren has yellow flowers, Npricol cuthren has organge flowers.	3' o.c. (for shrub)	52+	Z1-01					Tecomaria capensis		Cape Honeysuckie
		5 o.c. (for shrub)//Equal to spread for tree form	.01-51	+.50.+					dds seginusefing		hewG-ealiwrisguoB
<sub>∞</sub> ()		5 a.c. (for shrub)//Equal to spread for tree form	.07-51	1.50.+			1		dds seilivriisgud	Paper Flower, Helen Johnson	Bougainvilea
		3-2,00	.9.5	4.8,			-		Stachytarpheta jamaicensis		Blue Porterweed
		2.00	.9.9	3.8.			-	10000	Callicarpa emericana	American Beautyberry	Везифрецу
<u> </u>	in the particular second s	3.00	52	52					helianthus debilis		Beach Sunflower
<u>i</u>		5' a.c. for individual shrub form spread for individual shrub form	.019	3.6.					clanamented sizzeO		Bahama Cassia
fica		5 o.c. (for shrub)//Equal to spread for thee form	.919	SI-01					Schefflera arboicola	Dwart Schettlera, Dwart Schett, Trinette	alocitodia
at l					ical Xerisape	e Tropid	peys	×iM			
Specifications	NOTES / COMMENTS	SPACING Recommended	QA3992 39UTAM	THOISH SRUTAM		HEME APPLIC			BOTANICAL NAME	SEMAN REHTO	COMMON NAME
10					In the second second	A CONTRACTOR	No. of Contention	North Married			
0				"Sanahs							

101	Use your conver ior cover wither montris, whether bees and build mes.								A CONTRACTOR OF A CONTRACTOR OFTA CONT
	The Viet states for another index months. Attents have and buttedies	12"-14" o.c.	Spring-Summer	Sun to Partial Shade		Concentration (	Zinnia elegans	Zinnia	Zinnia
	Does well in heat	12"-18" o.c.	February-December	Sun to Partial Shude			Torenia fournieri	Toreni	Torenia
T TINT		10"-12" o.c.	Spring-Summer	Full Sun			Portulaca grandiflora	Purslane, Portulaca Portula	Moss Rose Purs
Vape Vora	Great for Summer	12-18° o.c.	Year Round	Sun to Partial Shade			Melampodium paludosum	Melam	Velampodium
		12"-14" a.c.	Spring-Summer	Partial to Full Shade			Justicia carnea	Justici	lacobinia
		12"-18" o.c.	October-May	Partial to Full Shade			Impatiens wallerana	Impati	Impatiens
	Tolerates Cold and Sale Spray	12"-18" o.c.	October-May	Full Sun			Pelargonium x hortorum	Pelarg	Geranium
C		8	Year Round	Full Sun			Gezania splendens	Gazan	Gazania
	Remove and Replace every 3 months or as they decline	12-18° o.c.	Year Round	Full Sun			Cosmos bipannatus	Cosmo	Cosmos
a		18"-24" o.c.	Year Round	Sun to Partial Shade			Coleus x hybridus	Coleur	Coleus
0		10-12" a.c.	February-July	Full Sun			Celosia argenta	Cockscomb Celosi	Celosia Coc
		10"-12" o.c.	February-July	Full Sun			Ageratum houstonianum	Blue Horizon Agerat	Ageratum Blue
					Tropical Xerisape	Shade	Mix		
	NOTES / COMMENTS	RECOMMENDED SPACING	PLANTING PERIOD (ADD-REMOVE)	SUN EXPOSURE	APPLICATION	MEDIAN THEME APPLICATION	BOTANICAL NAME	OTHER NAMES BO	COMMON NAME
			NIS	BEDDING PLANTS			South States and States	The state of the state of the state	
		NIA	NA	NIA					Sod-St. Augustine
		NA	NIA	NA			de la	Bahia spp.	Sod-Bahin
°a e Ten		NA	NA	NA			Tubeghia violacea (Tubeghia L- et least 20 varieties of this species)	Pink Agepenthus Tubeghi L- et lea species)	Society Garlic Pink
							pomoea pes-caprae		
ate	Can be aggressive in growth. Use may be imited/restricted to select medians/areas.						Arachis glabrata	Arachi	Perennial Peanut
		3'ac.	1:2	,5-1°			Juniperus davurica 'Parsonil'	Dahurian Juniper Junipe	Parson Juniper Dah
	Slow growing and can be used in median ends. Is susceptible to spider mites.	3-5 o.c.	24"	34			Liriope muscari (Decne.) L.H. Bailey	Border Grass, Lily-Turf Linope Bailey	Linope Borr
P		Equal to spread	1:2	24			Ernodea littoralis	Emot	Colden Creeper
							Euphorbia milli	Christ Thorns, Christ Plant Eupho	Crown of Thorns Chri
2		Equal to spread	2-3	1:3			Evolvulus glomeratus	Evolu	Blue Daze
	Allow to spread to fill in. Can be susceptile to miles. Not recommended to be used where soils are not well drained	3° a.c.	1-2	,5-1"			Gailardia pulchella	Caillar	Blanket Flower
1	Annual/Seesonal flower.	1-2 a.c.	2.3	2:1			Helianthus debils	Helan	Beach Sunflower
nt	Use of this as groundcover will be limited in areas outside of 100' from median ends.	3°ac.	2.4	24	Tropical Xerisape	x Shade	Mix		
	NOTES / COMMENTS	RECOMMENDED SPACING	MATURE SPREAD	MATURE HEIGHT	APPLICATION	MEDIAN THEME APPLICATION	BOTANICAL NAME	OTHER NAMES BO	COMMON NAME
			VER	GROUND COVER					
Ī							Eugenia axilaris	Eugen	White Stopper
5							umila		Wax Myrtle-Dwarf
t	Availability may be limited and hard to source due.	Equal to spread	5-15	10-15			Dodorniea viscosa		/amish Leaf Hopbush
-							Myrcianthes fragrans	Twinberry Myrcla	low Stopper
							Justicia brandegeana	Justici	-
		Equal to spread	20-30	25-30			Coccoloba uvitera		
Sr							Plumbago auriculata Lam.	Leadwort, Skyflower Plumb	Plumbago Lea
De							Philodendron bipinnat#idum		
ec		Equal to height	410	5-10			Serence repens	Saw Palmetto (green/silver) Seren	Palm-Palmetto (silver) Saw
ifi		5' o.c. for hedgel/space equal to spread for individual shrub form	10-15	5-10"			Sophora tomentosa var. truncata	Sopho	Necklace Pod
Cá		Equal to spread	3-5	3.5			Muhlenbergia capillaris	Regal Mist, Harawn Muhly Muhle	Muhly Grass Reg
ati					Tropical Xerisape	x Shade	Mix		
on	NOTES / COMMENTS	RECOMMENDED	MATURE SPREAD	MATURE HEIGHT	APPLICATION	MEDIAN THEME APPLICATION	BOTANICAL NAME	OTHER NAMES BO	COMMON NAME
S				אוגעסאייי	A LOCAL STREET, STREET		A CONTRACTOR OF A CONTRACTOR O	and the second se	



Item Number: 5.C. Meeting Date: 5/15/2019 Item Type: BUSINESS

#### AGENDA REQUEST FORM

CITY OF CAPE CORAL



#### TITLE:

MPO Issues - Persides Zambrano, P.W. Planning and Permitting Manager

#### SUMMARY:

ADDITIONAL INFORMATION:

Item Number: 6.C. Meeting Date: 5/15/2019 Item Type: OLD BUSINESS

### AGENDA REQUEST FORM





#### TITLE:

Landscaping by Cape Coral Bridge - John Castle, Senior Project Manager

#### SUMMARY:

#### ADDITIONAL INFORMATION:

#### ATTACHMENTS:

#### Description

Landscaping by Cape Coral Bridge

#### **Type** Backup Material

# Bernice Braden Park, Foot of Cape Coral Bridge

Slide 1

Palm & Plant Alternatives

### Existing Conditions

- Numerous Existing Roots and Stumps
- Very Rocky & Sandy Soil
- Area Prone to Salt Spray
- High Traffic Volume
- Limited Irrigation Availability
- Lateral Storm Drainage Swales & Drainage Issues Making It Prone To Seasonal Flooding
- Above existing conditions may limit number, species, and types of palms/trees to be in final selection



CAPE CORAL PARKWAY – ROADSIDE AT BRIDGE

### West Bound: Alt 1 - Bismarckia Palm



Existing site conditions

Conceptual site conditions

Slide 4

### West Bound: Alt 2 - Coconut Palm



Existing site conditions



Conceptual site conditions

### West Bound: Alt 3 - Royal Palm



Existing site conditions



### East Bound: Alt 1 - Bismarckia Palm



Existing site conditions



### East Bound: Alt 2 - Coconut Palm



Existing site conditions



### East Bound: Alt 3 - Royal Palm



Existing site conditions



## Existing Irrigation Locations



#### **Cape Coral Parkway**

#### Proposed Planting Locations



Add large palms/trees (approx. 40–50)

Add mixture of shrubs and ground covers



Clouded area represents locations of potential landscape enhancements and plantings

### Project Considerations to Estimated Costs

- Complete professional landscape and irrigation design
- Conduct soil sampling and testing
- Remove existing trunks and roots that may conflict with plantings
- Amend/augment soils where required
- Extend irrigation lines
- Possible drainage improvements to reduce seasonal flooding
- Perform installation of palms, shrubs, and irrigation system

### Estimated Costs

- Estimated landscaping costs of approx. \$55,000
- Estimated irrigation and drainage costs of approx. \$40,000
- Design costs of approx. \$25,000
- Total estimated costs of approx. \$120,000

# Royal Palm





### Bismarckia Palm





### Coconut Palm





Item Number: 6.G. Meeting Date: 5/15/2019 Item Type: OLD BUSINESS

AGENDA REQUEST FORM CITY OF CAPE CORAL



**TITLE:** Oasis Median - John Castle, Senior Project Manager

SUMMARY:

#### ADDITIONAL INFORMATION:

ATTACHMENTS:

#### Description

D Oasis Median

**Type** Backup Material



Item Number: 6.H. Meeting Date: 5/15/2019 Item Type: OLD BUSINESS

#### AGENDA REQUEST FORM

CITY OF CAPE CORAL



#### TITLE:

Median Landscape Improvement Priorities - Stephanie Smith, P.W. Design and Construction Manager

SUMMARY:

#### ADDITIONAL INFORMATION:

#### ATTACHMENTS:

#### Description

Median Landscape Improvement Priorities

**Type** Backup Material

## City of Cape Coral Median Landscape Improvement Priorities



May 15, 2019

At the March 2019 meeting, CTAC directed staff to modify the Landscape Priority list to focus on medians at the entrance to the City and medians along streets leading to City destinations.These include:

- Entrances:
  - Cape Coral Parkway including at Bernice Braden Park.
  - Hancock Bridge Parkway, west of Del Prado Boulevard (request for bids expected July/August 2019).



### Destinations:

- Yacht Club Coronado Parkway from Cape Coral Parkway to the Yacht Club (Council agenda June 3, 2019 for approval).
- Tarpon Point Pelican Boulevard from Cape Coral Parkway to El Dorado Parkway (currently landscaped).
- Cape Harbour Chiquita Boulevard from Cape Coral Parkway to El Dorado Parkway.
- Seven Islands Ceitus Parkway from Burnt Store Road to Tropicana Parkway.

- Current FY 2019 Balance of Median Landscaping Fund Available: \$1,102,000
- Approved/Pending App Project Costs: \$349,000
- Pending Projects Estimated Costs: \$550,000 Total Costs : \$899,000
  - \$82,000 for Coronado Parkway 84 additional trees (Council agenda June 3, 2019 for approval).
  - \$142,000 for Del Prado Blvd. replacement of trees lost during Hurricane Irma (currently on-going).
  - \$95,000 for Phase I replacement of trees lost during Hurricane Irma, (bid received May 10, 2019, pending Council approval).
  - \$30,000 Johnson Engineering for plan revisions to Hancock Bridge Parkway and construction contract services (revisions complete).
  - \$550,000 for landscaping improvements on Hancock Bridge Parkway-Del Prado Blvd to Santa Barbara (estimate, request for bids expected July/Aug 2019).

### Remaining Balance FY 2019: \$173,000

### Requested funding FY 2020: \$312,000

### Total: \$485,000

## **Future Median Projects**

- \$260,000 for Phase II replacement of trees lost during Hurricane Irma.
  - Includes contractor maintained medians (73) and City maintained medians (152). Staff working to find new locations for trees that meet sight distance requirements.
- \$120,000 for design and landscaping improvements at Bernice Braden Park (estimate).

## **Future Median Projects**

- \$450,000 to \$625,000 for design and landscaping improvements on Chiquita Blvd. south of Cape Coral Parkway (estimate).
  - Estimates based on maximizing the number of trees considering sight distance criteria and considering different caliper of trees. Estimate includes irrigation, shrubbery and ground cover in accordance with the landscape template (tropical theme). The estimate does not include the costs for curbing and access management. Actual landscaping costs dependent on a final design.

## Contractor Median Maintenance Current Costs

 Currently spend +/- \$ 1.2 M for Contractor maintained medians.

### Includes:

- Approximately 40 miles of medians (\$ 20,000 to \$25,000/mile).
- Approximately one million square feet of green areas (ponds, parking lots, sides of right-of-way).
- Contingency for accident replacements, sight distance replacements, non-contractor responsibility replacements, operating costs of water, electricity, tools and materials, bee removal, etc.

## Contractor Median Maintenance Expected Costs

- Expect increase in FY 2020 to +/- 2.2 M for Contractor maintained medians.
- Includes:
  - Increase to +/- \$40,000/mile.
  - Additional medians to maintain including El Dorado Parkway, Coronado Parkway, Hancock Bridge Parkway, Bernice Braden Park (possible that Parks and Rec will maintain), any added Adopt-a-Medians.

• Future maintenance of SE 47<sup>th</sup> Terrace.

Item Number: 6.I. Meeting Date: 5/15/2019 Item Type: OLD BUSINESS

#### AGENDA REQUEST FORM CITY OF CAPE CORAL



#### TITLE:

Welcome Signs - Maureen Buice, Public Information Specialist

#### SUMMARY:

#### ADDITIONAL INFORMATION:

#### ATTACHMENTS:

#### Description

Welcome Signs Update

**Type** Backup Material

# Welcome Signs



# Existing Signs

# City's existing logo





# Monument Signs

# LED signs



All the

### Information needed:

Prioritization of sign locations as part of a multi-year phased project

Monument sign locations

Other sign locations





Identify a funding source