Agenda Item #: 3-C-13

PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS AGENDA ITEM SUMMARY

Meeting Date:	May 16, 2023	[X]	Consent Workshop	[]	Regular Public Hearing
Department:	Engineering & P	ublic Wo	rks		
Submitted By:	Engineering & Public Works				
Submitted For:	Traffic Division				

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to:

- A) adopt a Resolution to support the submittal of a Local Initiatives Program (LIP) grant application through the Palm Beach Transportation Planning Agency (TPA) to the Florida Department of Transportation (FDOT) for funding to replace and upgrade seven signalized intersections owned by Palm Beach County (County);
- **B)** approve the 2023 Application for Project Funding for Local Initiatives Construction Projects with the TPA.

SUMMARY: Adopting this Resolution will support the County's LIP application submittal for improving the safety and operation of seven intersections throughout the County, as listed in Exhibit A to the Resolution. If selected, the proposed Project will be built within the existing County or applicable municipal road right-of-way, and the County will enter into a grant reimbursement agreement with the FDOT. As part of the application process, the TPA requires this Resolution to support the LIP application submittal, and the County's commitment to design, construct, and operate and maintain the Project after construction. The LIP grant will fund the Project's construction costs, estimated at \$4,825,749.05. The County's local participation funding is estimated to be \$1,987,080.79 of voluntary funding for the Project's design and construction management. Funding provided by the LIP for construction will be programmed in 2028. Countywide (YBH)

Background and Justification: The FDOT's LIP is a cost-reimbursement program where projects are submitted to the TPA for ranking and prioritization. The Project includes replacing the signalized intersections from span wire to mast arm structures, replacing all signal equipment, upgrading the controllers and upgrading certain signal heads with flashing yellow arrow for left and/or right turns. The Project will enhance the safety and operations at the Project locations.

Attachment:

- 1. Resolution with Exhibit A
- 2. 2023 Application for Project Funding for Local Initiatives Construction Projects with Exhibit A

Recommended By:	David I high	5/4/23
	County Engineer	Date
Approved By:	Assistant County Administrator	S/10/23

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2023	2024	2025	2026	2027
Capital Expenditures	-0-	-0-	-0-	-0-	-0-
Operating Costs	-0-	-0-	-0-	-0-	-0-
External Revenues	-0-	-0-	-0-	-0-	-0-
Program Income (County	-0-	-0-	-0-	-0-	-0-
In-Kind Match (County	-0-	-0-	-0-	-0-	-0-
NET FISCAL IMPAT	-0-	-0-	-0-	-0-	-0
# ADDITIONAL FTE					
POSITIONS (Cumulative)	-0-	-0-		-0-	-0-

Is Item Included in Current Budget?

Does this item include the use of federal funds?

Yes

Budget Account No:

Fund

Dept

Unit

Object

Recommended Sources of Funds/Summary of Fiscal Impact:

** This item has no fiscal impact at this time. Funding for construction provided by the Local Initiatives Program (LIP) will be programmed in 2028; If and when the LIP grant is selected and approved for funding by FDOT, it will be brought back to the Board of County Commissioners as an agenda item that includes the complete fiscal impact as well as a budget amendment to recognize the grant revenue and appropriate it to the expense budget.

C. Departmental Fiscal Review

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Dev. and Control Comments:

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OFMB

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Contract Day and Co

B. Approved as to Form

and/Lega/Sufficiency:

Assistant County Attorney

C. Other Department Review:

Department Director

This summary is not to be used as a basis for payment.

RESOLUTION NO. R2023-____

RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA, SUPPORTING THE SUBMITTAL OF AN APPLICATION TO THE PALM BEACH TRANSPORTATION PLANNING AGENCY FOR THE FLORIDA DEPARTMENT OF TRANSPORTATION LOCAL INITIATIVES PROGRAM FOR FUNDING THE REPLACEMENT AND UPGRADE OF SEVEN SIGNALIZED INTERSECTIONS; COMMITTING TO FUND THE LOCAL SHARE OF PROJECT DELIVERY AND THE ASSOCIATED ONGOING OPERATION AND MAINTENANCE EXPENSES; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, Palm Beach County (County) is eligible to apply for funding in an amount not to exceed \$5 million from the Florida Department of Transportation (FDOT) Local Initiatives Program (LIP) through the Palm Beach Transportation Planning Agency (TPA); and

WHEREAS, the County plans to make improvements to seven (7) signalized intersections owned by the County that have reached their end of life, as listed in Exhibit A (Project); and

WHEREAS, the Project includes replacing the signalized intersections from a span wire intersection to mast arm structures, replacing all signal equipment, upgrading the controllers and upgrading certain signal heads with flashing yellow arrow for left and/or right turns; and

WHEREAS, the Project will improve safety and operations at the Project locations; and

WHEREAS, the Project will improve the intersections' resiliency against storms; and

WHEREAS, the Project will primarily be constructed within the County or applicable municipal road right-of-way; and

WHEREAS, construction of the Project is estimated to cost \$4,825,749.05; and

WHEREAS, FDOT will reimburse the County only for eligible construction costs associated with the Project in an amount not to exceed \$5,000,000; and

WHEREAS, the County will further fund the costs of design and construction management, estimated at \$1,987,080.79; and

WHEREAS, after construction of the Project, the County agrees to operate and maintain the Project contingent upon an annual appropriation by the Board of County Commissioners.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA, that:

- 1. The foregoing recitals are true, accurate and correct and are incorporated herein.
- 2. The Board of County Commissioners hereby supports the submittal of the application to the TPA for the LIP funding of the Project.
- 3. If the Project is selected for funding by the TPA, the County agrees to design and construct the Project and agrees to operate and maintain the Project after construction, contingent upon an annual appropriation by the Board of County Commissioners.
- 4. This Resolution shall take effect upon adoption.

The foregoing Resolution was offered by Commis	sioner who moved
for its adoption. The motion was seconded by Con	nmissioner and
upon being put to a vote, the vote was as follows:	
Commissioner Gregg K. Weiss, Mayor	-
Commissioner Maria Sachs, Vice Mayor	-
Commissioner Maria G. Marino	-
Commissioner Michael A. Barnett	<u>-</u>
Commissioner Marci Woodward	-
Commissioner Sara Baxter	<u>-</u>
Commissioner Mack Bernard	-
The Mayor thereupon declared the Resolu	tion duly passed and adopted this day of
, 2023.	
	PALM BEACH COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA BY AND THROUGH ITS BOARD OF COUNTY COMMISSIONERS
APPROVED AS TO FORM AND LEGAL SUFFICIENCY	JOSEPH ABRUZZO, CLERK OF THE CIRCUIT COURT AND COMPTROLLER
BY: /s/Yelizaveta B. Herman	BY:
Yelizaveta B. Herman Assistant County Attorney	BY: Deputy Clerk
APPROVED AS TO TERMS AND CONDITIONS	
BY: Motorin Str. Motasem Al-Turk	
Traffic Division, Director	

Exhibit A

Signalized Intersection Locations

	Intersection ID	East/West Road	North/South Road
1.	29060	Belvedere Road	Skees Road
2.	29070	Belvedere Road	Jog Road
3.	37800	Melaleuca Lane	Congress Avenue
4.	38110	Melaleuca Lane	Kirk Road
5.	41645	Hypoluxo Road	S. Jog Road
6.	43800	Gateway Boulevard	Jog Road
7.	50260	Flavor Pict Road	Military Trail



2023 APPLICATION FORM Project Funding for Local Initiatives (LI) Construction Projects

Project Title Flashing Yellow Left & Right Turn Arrow Upgrade

Applicant Palm Beach County Engineering & Public Works - Traffic Division

WHAT DO YOU WANT TO BUILD?

Briefly provide a general description of the project and what it will accomplish.

For the twenty-nine traffic signals we are proposing to add flashing yellow arrows for left turns and where applicable, right turns. We will be upgrading each controller cabinet, adding LED luminaries for street lighting where applicable and upgrading 11 intersections to include back plates to improve visibility. Through these improvements, we will be improving safety and travel time reliability for pedestrians and motorists.

	e applicant and/or another agency owns the right-of-way where the project will be
	support from facility owner clearly indicating that the project may be constructed as attachment (see submittal checklist).
Applicant	☐ Other Entities
See attached righ	t of way documents for more information.

WHO IS DOING WHAT?

Check the applicable boxes. All projects on state highways must be administered and constructed by FDOT. For projects on local raadways (county or city), the applicant may administer the project or ask FDOT to administer the project on their behalf. Locally administered projects require a Local Agency Program (LAP) agreement to administer Federal Aid projects in accordance with FDOT's <u>Local Agency Program Manual</u> (topic no. 525 010 300).

•		•
	Administered by:	Funded by:
Design (PE)	☑ Applicant or consultant ⁽¹⁾⁽²⁾	☑ Applicant (required if locally administered)
	☐ FDOT (requires prior approval)	☐ TPA (if FDOT administered)
Construction (CST)	☑ Applicant or consultant (1)	☐ Applicant
	☐ FDOT (requires prior approval)	☑ TPA
	☐ Other:	
Const Eng & Inspect (CEI)	☑ Applicant or consultant (1)(2)	☑ Applicant (if locally administered project)
constant and an inspect (circ)	☐ FDOT (requires prior approval)	☐ TPA (if FDOT administered project)

(1) FDOT pre-qualified consultants must be used on all design and CEI work for critical projects (a project is considered critical when it is on the State Highway System (SHS), features a major structure, and/or has a budget greater than \$10 million)

(2) Design consultant and CEI consultant shall not be the same.

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APPLICANT CONTACT INFORMATION

Contact Person Melissa Ackert, P.E.

Title Assistant Director, Traffic Division

Email mackert@pbcgov.org

Phone Number 561 684-4030

Address 2300 N. Jog Rd., 3rd Floor, West Palm Beach, FL 33411

PROJECT LOCATION

Road Name See attached list and map (7 locations)

Road Number US, SR, CR, etc.

Project Limit Begin See attached list

Project Limit End

QUALIFYING ACTIVITIES FOR FUNDING

Check the box that represents the majority of the work the proposed project will address. <u>Eligible activities</u> must be consistent with details described under <u>23 U.S.C. 133(b)</u>.

V	Complete Street projects - Including Lane Narrowing, Lane Elimination, Bicycle Facilities, Pedestrian Facilities, Transit Infrastructure, Intelligent Transportation Systems (ITS), Median Modifications, Signing and lighting, Turn Lanes, Traffic Signals, Striping and Marking.
	Transit capital - purchase of vehicles, shelters, park-and-ride facilities. Can also pay up to 50% of a 3-year turn-key contract for new transit service (e.g. trolley service)
	Non-motorized infrastructure - Separated, Buffered and/or designated bike lanes, Sidewalks, Shared-use paths, Street lighting
	Freight efficiency - Airport or seaport off-site capacity improvements, Railway capacity improvements, Truck movement improvements.
	Other eligible activities not specified above

PROJECT TYPICAL SECTION INFORMATION

Complete the following information for <u>existing & proposed</u> features, dimensions, & right of way lines. The typical section information provides an understanding of the spacing requirement differences between the existing facilities and the proposed facilities.

	EXISTING	PROPOSED
RIGHT-OF-WAY WIDTH	See Attached	See Attached
Project must fit within current ROW, acquisition is not permitted	See Attached	See Allacheu
PEDESTRIAN OR MULTIUSE FACILITIES		
Length (miles) for one direction. Do not count both sides of roadway.	NA	NA
Width on North or West side (feet)*		
Width on South or East side (feet)*		
BICYCLE FACILITIES		
Bike Lane Length (feet) for one direction. Do not count both sides of roadway.	NA	NA
Width on North or West side (feet)* (not Including Buffer Width)		
Buffer Width on North or West side (feet)*		
Width on South or East side (feet)* (not Including Buffer Width)		
Buffer Width on South or East side (feet)*		
Proposed improvements requires:		
Pavement widening Sharrows Restriping		
MOTORIZED VEHICLE FACILITIES		
Number of Through Travel Lanes	NA	NA
Typical Through Lane Width (feet)		
Total Width* (No. Travel Lanes x Lane Width)		
Posted Speed Limit		
Design Speed (if known)		
MEDIAN/SWALE/CURB		•
Median/Center Turning Lane Width (feet)*	NA	NA
Swale Width (feet)*		
Curb Width (feet)*		
*TOTAL WIDTH OF ALL COMPONENTS (Add all rows with red for total width) Must	0	0
fit within existing right-of-way.	0	0

RIGHT-OF-WAY OWNERSHIP DOCUMENTATION

Describe the project's existing right-of-way ownerships. This description shall identify when the right-of-way was acquired and how ownership is documented (i.e. plats, deeds, prescriptions, certified surveys, easements). If right-of-way is an easement, please describe the easement language. Right-of-way ownership verification documents are a required attachment (see submittal checklist on page 9).

All projects are located within County road right-of-way. See attached documentation.

PROJECT SCOPE OF WORK

Describe how the proposed improvements will affect the following:

ADA items (crosswalks, sidewalks, ramps, etc.)
All proposed crosswalks, sidewalks, ramps, etc. comply with ADA standards YES NO
All sidewalk and curb ramps impacted from construction will be rebuilt and enhanced to meet ADA standards.
Access Management revisions (median modifications, impacts to driveways, etc.) YES NO
Pedestrian and/or Roadway Lighting
Pedestrian lighting proposed YES V NO Roadway lighting proposed YES V NO
Roadway lighting and pedestrian level lighting will be upgraded to standards as required. Street lights will be upgraded to LED.
Landscape (with Local Funds) Median landscape proposed YES NO Other landscape proposed YES NO Irrigation items proposed YES NO
Signalization Pedestrian signals proposed YES V NO Existing signalization to be replaced V YES NO New traffic signalization proposed YES V NO
7 intersections will be rebuilt and upgraded. The scope of this includes: upgrading 4 span wire intersections to mast arm intersections and at 3 locations upgrading to steel strain poles and rewiring, adding flashing yellow arrow for left turns and rights, replace traffic signal heads, replace internally illuminated street name and sign panels, upgrade pedestrian features to meet ADA standards.
Transit Improvements
Queue jump possible YES V NO Transit provider concurrence provided YES NO V
Upgrade existing bus bay area YES V NO
School Zone Modifications Existing fleshing school zone signal on state read.
Existing flashing school zone signal on state road YES NO High emphasis cross walk at unsignalized crossing YES NO
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Utility Modifications	Attachment 2
Sub-surface relocation is required YES VNO	Utility coordination is required YES NO
Drainage and/or other Permits Existing closed drainage system to remain Existing open drainage system to remain YES YES	
Railroad Crossing Modifications	
Rail crossing within limits YES VNO	Replace railroad signal equipment and gates YES NO
Bridge Modifications Proposed pedestrian bridge YES VNO Proposed bridge widening YES VNO	Bridge replacement YES NO
Other Scope Items	
See attached scope for each location.	
Summarize any special characteristics of the project.	Whate is moveled as opposed to a solid green circular indication. If provides a drest massage amphasating the need is yield to opposing bells and podesybers price to poccasing. The PVA this previous expansive
	whiches in activities an opposed to be sold green circular inclination. It provides a devel message emphasizing the seed is jest to opposingly affect and possessible provide provides argument of all confidences arguments of the confidence are set of the confidence a
Identify any upcoming projects or projects currently u	nderway adjacent to the proposed project.
Other specific project information that should be cons	idered.

These intersections were identified to be rebuilt because of the age and the reliability they have demonstrated during major storms. These intersections are susceptible to going in flash because of the fragile and deteriorated cabling. The current equipment and structures are not consistent with the modern systems and signal components newer intersections being built.

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PUBLIC INVOLVEMENT AND SUPPORT

Describe the public outreach and support for the project (i.e. petitions, written endorsements, resolutions, etc.). Attach documentation.

The 7 project locations are not adjacent to single family home access; therefore, public outreach was not performed.

Projects impacting single family residential lots will require additional documentation of public support. Additional documentation must indicate that all property owners directly affected by the improvement were notified, that at least 25 percent of the property owners showed support for the project, and that no more than 10 percent of the property owners showed lack of support.

PROJECT MAINTENANCE

Document ownership and maintenance responsibilities for the project when complete. Applicant's Resolution of Support and commitment to fund operations and maintenance of the project is a required attachment. See submittal checklist on page 9).

The attached resolution in support of the project will be presented at the May 2, 2023 Palm Beach County Board of County Commissioners meeting. It includes a provision by the County to fund design, construction management, operation, and maintenance of the project.

The Lake Worth Drainage District has provided a 1-24-2023 letter to issue a permit for traffic signalization structures. (Location A #29060 and Location C #37800).

Palm Beach County Property Real Estate & Management has provided 2-13-2023 memorandums confirming Palm Beach County fee simple ownership and will process a Declaration of Easements for three project locations. (Location B #29070, Location C #37800, and Location F #43800).

COST ESTIMATE

The total construction amount of Local Initiatives Program funds requested per projects (infrastructure) must be in excess of \$250,000 with a maximum project amount of \$5,000,000.

Local Initiatives Program funds will be used to fund Construction, Construction Engineering and Inspection Activities (CEI) and FDOT in-house support activities. The applicant may also request that Local Initiative Program funds be used for project Design, Environmental Services, and Post Design Services.

Local Funds (LF) will be used for all non-participating items, contingency activities, and any costs in excess of the awarded funding (LI) allocation.

- (a) Provide detailed project cost estimate using one of the following forms. Estimate shall be broken down to eligible and non-eligible project costs. Estimates are to be prepared and signed by a Professional Engineer from the Local Agency's Engineering office.
 - a. On-System (on State Highway System) Cost Estimate Sheet
 - b. Off-System (not on State Highway System) Cost Estimate Sheet

Use the following links to access the basis of estimates manual as well as historical information for the project area.

Basis of Estimates Manual Historical Cost Information

CERTIFICATION OF PROJECT SPONSOR

CERTII	ICATION OF PROJECT 3FO	70K
-		Palm Beach County Engineering ct herein described is supported by
1	1) provide any funding requ	ed in addition to the grant amount;
2	2) enter into a LAP and mai	enance agreement with the Florida Department of Transportation;
3	B) have complied with the	deral Uniform Relocation Assistance and Acquisition Policies Act for any
	Right of Way actions inte	led for this project previously performed within the project limits;
4	4) will comply with NEPA pr	ess prior to construction, which may involve coordination with the State
	Historic and Preservation	ffice (SHPO); and
į	5) support other actions ne	ssary to fully implement the proposed project.
		 Signature
		Fatmeh Jafar, P.E., Ph.D.
		Name (please type or print)
		Manager, Traffic Signal & Street Light Design - Traffic Division
		Title
		2/16/2023
		Date
		FOR FDOT USE ONLY
		Application Complete Yes No

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Yes

Yes

Yes

No

No

No

Implementation Feasible

Include in Work Program

Project Eligible