

AGENDA CMC

Congestion Management Committee
Collier County Transportation Management
Services Department
South Conference Room
2885 South Horseshoe Drive
Naples, Florida 34104

NOTE: THIS IS AN IN-PERSON MEETING

November 15, 2023 2:00 p.m.

- 1. Call to Order
- 2. Roll Call
- 3. Approval of Agenda
- 4. Approval of July 19, 2023 Meeting Minutes
- 5. Open to Public for Comment on Items
 Not on the Agenda
- 6. Agency Updates
 - A. FDOT
 - B. MPO
 - C. Other

7. Committee Action

- A. Congestion Management Project Applications - Presentations and Review
- 8. Reports and Presentations (May Require Committee Action)
- 9. Member Comments
- 10. <u>Distribution Items (No presentation)</u>

A. Approved 2024 MPO Calendar

11. Next Meeting Date:

January 17, 2024, 2 p.m.

12. Adjournment

PLEASE NOTE:

The meetings of the advisory committees of the Collier Metropolitan Planning Organization (MPO) are open to the public and citizen input is encouraged. Any person wishing to speak on any scheduled item may do so upon recognition of the Chairperson. Any person desiring to have an item placed on the agenda should contact the MPO Director at least 14 days prior to the meeting date. Any person who decides to appeal a decision of the advisory committee will need a record of the proceedings pertaining thereto, and therefore may need to ensure that a verbatim record of the proceeding is made, which record includes the testimony and evidence upon which the appeal is to be based. In accordance with the Americans with Disabilities Act, any person requiring special accommodations to participate in this meeting should contact the Collier Metropolitan Planning Organization 72 hours prior to the meeting by calling (239) 252-5814. The MPO's planning process is conducted in accordance with Title VI of the Civil Rights Act of 1964 and Related Statutes. Any person or beneficiary who believes that within the MPO's planning process they have been discriminated against because of race, color, religion, sex, age, national origin, disability, or familial status may file a complaint with the Collier MPO Title VI Coordinator, Ms. Suzanne Miceli, (239) 252-5814 or by email at: Suzanne.Miceli@colliercountyfl.gov, or in writing to the Collier MPO, attention: Ms. Miceli, at 2885 South Horseshoe Dr., Naples, FL 34104.

CONGESTION MANAGEMENT COMMITTEE of the COLLIER METROPOLITAN PLANNING ORGANIZATION

July 19, 2023 2:00 p.m. Meeting Minutes

1. Call to Order

Mr. Beauvoir called the meeting to order at approximately 2:01 p.m.

2. Roll Call

Ms. Miceli called the roll and confirmed a quorum was present in the room.

CMC Members Present In-Person

Pierre-Marie Beauvoir, Chair, Collier County Traffic Management Center
Lorraine Lantz, Vice-Chair, Collier County Transportation Planning, Vice Chair
Alison Bickett, City of Naples (arrived during item #6)
Dave Rivera, City of Naples
Karen Homiak, Citizens Advisory Committee (CAC) Representative
Omar De Leon, Public Transportation and Neighborhood Enhancement (PTNE), Collier Area

CMC Members Absent

Don Scott, Lee MPO

Transit (CAT)

Dayna Fendrick, Bicycle Pedestrian Advisory Committee (BPAC) Representative

MPO Staff

Anne McLaughlin, Executive Director Sean Kingston, Principal Planner Suzanne Miceli, Administrative Support

Others Present

Alexander Showalter, Collier Area Transit

3. Approval of the Agenda

Ms. Lantz moved to approve the agenda. Mr. De Leon seconded. Carried unanimously.

4. Approval of the January 18, 2023 Meeting Minutes

Ms. Homiak moved to approve the January 18, 2023 minutes. Ms. Lantz seconded. Carried unanimously.

5. Public Comments for Items not on the Agenda

None.

6. Agency Updates

A. FDOT

Ms. McLaughlin: FDOT is not present.

B. MPO

Ms. McLaughlin: The MPO is about to enter a series of joint workshop meetings with Lee Metropolitan Planning Organization (MPO); Technical Advisory Committee (TAC) and Citizens Advisory Committee (CAC) on August 3, 2023, and the MPO Board on the August 18, 2023. Upcoming regular meetings are the Bicycle/Pedestrian Advisory Committee (BPAC) on August 15, 2023, and TAC and CAC on August 28, 2023.

C. Other

(i) City of Naples

Mr. Rivera: The City of Naples had a meeting with the Florida Department of Transportation (FDOT) regarding upcoming CMC projects, one of which was intersection cameras. One of the locations slated for a camera, at 3rd Ave South, has been converted to a roundabout. We would like to use the funds slotted for that intersection to place a camera at Park Shore and Creighton Road. FDOT approved, pending MPO approval. With the new software, the camera records bicyclists, pedestrians, and near misses.

Ms. McLaughlin: As this has not been added as a voting item on the agenda, we will show approval via general Committee concurrence in the minutes to pursue the request.

(ii) Collier County Public Transportation & Neighborhood Enhancement (PTNE)

Mr. De Leon: Brian Wells, from Colorado, is the new Collier Area Transit (CAT) Director. CAT is currently working on the Regional Fare/Regional Service Study with the MPO. An update on the study will be presented at the Technical Advisory Committee Joint Workshop. CAT has a few projects underway, including the Computer Aided Dispatch, Vehicle Location System, and the Traffic Signal Prioritization portion of the Change Project. Technology integration efficiency is a key priority, so a master database has been created.

(iii) Collier County Transportation Planning

Ms. Lantz: CCTP is working on submitting the Annual Update and Inventory Report (AUIR) at the end of this week. We are still understaffed, working a department of 4 with 2 and have posted two positions on the Collier County job board.

(iv) Collier County Traffic Management Center (TMC) Operations

Mr. Beauvoir: I have some cross-projects with Mr. Rivera and Mr. De Leon. Starting with Mr. De Leon for Traffic Signal Prioritization (TSP). One of the projects in flight with TMC Traffic Operations is travel time data collection using BlueToad, a Bluetooth sensor at intersections with FDOT on Old 41 to Isle of Capri, (stopping at Pine Ridge and picking back up at Bayshore, skipping SR 951, which is a State Road, and continuing to the last intersection before Marco Island.) Travel time, speed, congestion, and other controller data is what is measured at traffic signals. The goal is to have the entire county covered. Since they're doing the US 41 East Trail with 12 intersections, and where CAT will be working on Traffic Signal Prioritization, TMC would like to share this technology with CAT.

TMC will be getting an FCC license for all intersections for CV2X (connected) vehicles. Vehicles will be able to communicate with traffic signal cabinets. As you drive a connected vehicle through an intersection, it will tell you on the dashboard the color of the light at the time. It counts down to when the light will change to green. This will help eliminate the gaps that occur with driver delay, which prevents congestion. Since Collier County and the City of Naples will be connected through fiber technology, TMC would be able to share a controller data dashboard. The goal is to connect to sister agencies to share data. This technology is expected to be in place for new vehicles in 2025.

I'm working on a project with Mr. Rivera and the City of Naples to upgrade the entire network infrastructure throughout the County and the City of Naples to share data and improve traffic mobility. The project is slated to be completed by December 31, 2023.

(v) Lee County MPO

Mr. Scott was not present.

7. Committee Action

A. Discuss Need for Transportation System Performance Report & Action Plan Update (TSPR)

Ms. McLaughlin: The MPO's Unified Planning Work Program (UPWP) calls for an updated TSPR to be completed by June 2024. The prior TSPR consisted of two separate documents – a Baseline Condition Report and an Action Plan. Both were approved by the MPO Board on September 11, 2020. These can be viewed on the MPO's website at the following link: https://www.colliermpo.org/congestion-management. The recommendations in the 2020 TSPR were incorporated into the Congestion Management Process Update (CMP) approved by the Board in April 2022. The CMP includes the Congested Corridor Fact Sheets and Origin and Destination Study (O&D). The TSPR does not appear to be a resource that agencies use when submitting

projects when the MPO issues a Call for Projects. Would like to hear from committee members on this. No motion or action is required today. We would bring a UPWP amendment forward in the future.

- **Mr. Beauvoir:** Traffic Operations deals with congestion that already exists. The planning side needs to address future conditions.
- **Ms. Lantz:** The MPO does long range planning and looks to County plans and studies, including the AUIR, to identify potential projects.
- **Mr. De Leon:** PTNE refers to the Transit Development Plan and other transit-related plans to identify projects to submit. How does the MPO use the TSPR?
- **Ms. McLaughlin:** it's incorporated by reference into the LRTP, but the congestion analysis for the LRTP was entirely based on the travel demand modeling done for the roadway network.

A group discussion ensued regarding the TSPR in relation to current traffic conditions, transportation engineering, land use planning and the LRTP, indicating that the TSPR is not a key resource document.

B. Review and Comment on Draft Scope for 2025 Transit Development Plan – Major Update

- **Ms. McLaughlin:** The TDP Major Update is an integral part of the 2050 LRTP and ideally needs to be done by June 2025 to become a part of the LRTP, although the timeframe has been extended to September 2025 in the UPWP. The revisions to the prior TDP scope (shown in Track Changes on Attachment 1) are to improve data sharing between the consultant for the 2050 LRTP, Jacobs Engineering) and the consultant that develops the TDP.
- **Mr. De Leon** This is a study that looks at a ten-year horizon for transit agencies for 2026-2035, considering the different modes and technologies of transit.
- **Ms. McLaughlin:** This is an excellent opportunity to review the scope of the plan and its integration into the LRTP. A vendor will do the TDP and hand it off to MPO consultant, Jacobs Engineering. We'll need formal endorsement from the Technical & Citizens Advisory Committees. This item was presented for informational purposes only and no motion is required.

8. Reports and Presentations (May Require Committee Action)

A. 2023/2024 Call for Projects

Ms. McLaughlin: Submittal deadlines for projects are upcoming Does anyone have a project they were considering submitting for funding?

A group discussion followed, which included fiber optics for the City of Naples, as well as the possibility of BlueToad technology, and the project funding process for Collier County.

B. Topics for Next Meeting

Ms. Bickett: I'd like to see a list of the projects that have already been discussed.

Mr. Beauvoir: I'd like to investigate BlueToad and see what it can bring to Collier County. Another system, a video wall as an item called Visibility allows us to display a remote video wall to other agencies. We can provide that to different departments. Will be going to the BCC because it's over \$50,000. Not at the next meeting, but upcoming.

9. Member Comments

None.

10. Distribution Items

None.

11. Next Meeting Date

September 20, 2023 - 2:00 p.m.

12. Adjournment

There being no further comments or business to discuss, **Mr. Beauvoir** adjourned the meeting at 4:00 p.m.

EXECUTIVE SUMMARY COMMITTEE ACTION ITEM 7A

Congestion Management Project Applications - Presentations and Review

<u>OBJECTIVE:</u> For the Committee to receive presentations by submitting agencies, review the submitted project applications, and discuss ranking of projects.

<u>CONSIDERATIONS</u>: Congestion Management projects are slated by MPO Board policy to receive a programming amount for FY 2030 of approximately \$5.2 million in combined Transportation Alternative - Urban (TALU), Surface Transportation Block Grant – Urban (SU) and Carbon Reduction Program – Urban (CARU) funds.

The MPO received four applications by the September 29 due date for funding in the total amount of \$5,471,375. The remainder of the schedule for the 2023/2024 Congestion Management Call for Projects is as follows:

- November 15, 2023: Presentations by Submitting Agencies, Committee Review, Comment, Questions & Answers at CMC
- January 2024: CMC Preliminary Rating and Ranking of Projects
- March 2024: CMC Final Rating and Ranking of Projects
- April 2024: CAC/TAC Review and Endorsement Following Presentations by Submitting Agencies
- May 2024: Preliminary MPO Board Review Presentations by Submitting Agencies
- June 2024: MPO Board approval of Final List of Prioritized Projects

STAFF RECOMMENDATION: For the Committee to review the submitted projects and discuss ranking of projects in the next phase of the application process.

Prepared By: Sean Kingston, AICP, PMP, CFM, Principal Planner

Attachments:

- 1. 2023 CMP Congestion Management Strategy & Performance Measure Matrix
- 2. 2023-2024 Call for Projects Congestion Management Evaluation Criteria and Scoring Matrix
- 3. Application Fiber connections and mast-arm upgrades to Crayton signalized intersections
- 4. Application US 41 from 3rd Ave to SR 84 Intersection/Mobility Improvements PD&E
- 5. Application ATMS and Controller Update
- 6. Application (ITS) Retiming of Arterials

2023 CMP Congestion Management Strategy & Performance Measure Matrix

Project Name	Submitting Agency	Description	Funding Request	Congestion Management Strategy	CMP Performance Measure(s)
Fiber connections from US-41 to Mooring Line Drive & Crayton and Harbour & Crayton span-wire to mast arm intersection improvements	City of Naples	Fiber connections to intersections and upgrades from the existing span-wire assembly	\$1,998,153	Demand mangement & Safety	safety, customer service, incident duration
		Analyze cumulative effects of		Physical Roadway Capacity Enhancement	PD&E to look at ways to improve V/C ratio or to accommodate increased traffic without V/C ratio worsening
US41 from 3rd Ave to SR 84 Intersection / Mobility Improvements PD&E	City of Naples	redevelopment projects on US41's functionality from a Complete Streets Perpective and address Bike - Ped Safety Concerns utilizing a Safe Systems approach.	\$1,118,220	Bicycle & Pedestrian	PD&E will identify improvements that enhance safety of bike-ped facilities; may identify improvements that lead to wider sidewalks as shared use paths
				Transit	PD&E to look at improvements that may increase passenger trips on bus route
				Safety	PD&E will identify improvements that enhance safety of bike-ped facilities
ATMS and Controller Update	Collier County	ATMS and Controller Update	\$1,622,000	ITS & Access Management - Active Roadway Management	Report on nature of comments/responses and customer satisfaction
ITS Retiming of Arterials	Collier County	ITS Retiming of Arterials	\$633,000	ITS & Access Management - Active Roadway Management	Transit On-Time Performance

Evaluati	on Criteria and Scorin	ng Matrix)24 Call for I	-	ongestio	n Manage	ement		Dunin et (·:6:-				7B Attac	chment 2
Project No.	Project Name	Submitting Agency/ Jurisdiction	Supported by Multiple Jurisdictions Yes - 3 pts No - 0 pts	Local Technical and/or Monetary Contribution? Yes 3pt No 0 pts	Requires Acquisition of ROW Yes 0 pts No 3 pts	Uses TSM Approach *High 5 pts Med 3pts Low 1 pt	Uses TDM Strategy *High 5pts Med 3 pts Low 1 pt	Existing ITS *High 5 pts Med 3pts Low 1 pt	Increases Security Yes 3pt No 0 pt	Increases Safety *High 5pts Med 3 pts Low or No 0 pts	Promotes Regional Connectivit y *High 5pts Med 3pts Low 1 pt	Promotes Multi-Modal Solutions *High 5pts Med 3 pts Low 1 pt	Protects Environmental Resources *High 5 pts Med 3 pts Low 1 pt	Promotes Economic Development or Freight Movement *High 5 pts Med 3pts Low 1 pt	TOTAL POINTS	RANKING
1	Fiber Connections and mast-arm upgrades to Crayton signalized intersections	City of Naples														
2	US 41 from 3rd Ave to SR 84 Intersection/ Mobility Improvements PD&E	City of Naples														
2																
3	ATMS and Controller Update	Collier County														
4	(ITS) Retiming of Arterials	Collier County														
*TSM Scoring					ITS Scoring							Regional Con	nectivity			
High	intersection improvements - turn enhances emergency operations re				High	affects arterial		addresses criti m improvemen		o insufficient		High	enhances inter-coun	ty connectivity of hi	ghways or trar	nsit
Med	intersection improvements -turn l enhances emergency operations r intersection improvements - turn	esponse on LOS E	facilities		Med			r addresses a c		etam back un		Med	enhances inter-coun	ty connectivity of pa	thways, bikew	ays or tails
Low	enhances emergency operations r				Low	or purchase m			ontingency sy.	stem back up		Low	on a facility identifie	ed on regional netwo	rk	
TDM Scoring					Safety S	Scoring						Multimodal Sc	oring			
High	adds new transit route or new par regional TDM program	rk & ride facility or	cooperates with		High	ped/bike or tra of transit relat	ansit related cr ed injuries	y problem; redu ashes or seriou	ıs injuries; red			High	improves at least 3 motorized and non- from existing Bike/I Walkability Studies	motorized modes; ac	lvances recom	mendations
Med	increases existing carpooling, van facility	pooling, transit or	a park & ride		Med		oves safety of	emergency res	sponders; or re			Med	enhances at least 2 i	nodes		
Low	adds new bicycle or pedestrian fa	cilities										Low	improves 1 mode; in increases transit enh shelters or other enl	ancements such as p	ark & ride lot	s or bus

Economic Development/Freight Movement

freight activity centers

freight activity centers

overall economic development

located at and directly affects access to airports, major activity or

located near and affects access to airports, high employment areas,

not located near airports, high employment areas but can promote

Scoring

High

Med

Low

High

Med

Low

Environmental Scoring

improves monitoring and reporting capability

supports general congestion avoidance measures

corridor congestion

reduces air quality emissions; reduces fuel consumption by reducing

reduces fuel consumption by reducing specific intersection delays;

Source: Collier MPO – Congestion Management

Process 2022 Update



Collier MPO Congestion Management - Project Concept Sheet 2023

(Each fillable area can accommodate multiples lines.)

Α.	REQU	JIRED	PROJEC1	Γ INFORMATION:
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1.	Name of Project Fiber Connections and mast-arm upgrades to Crayton signalized into	ersections
2.	Name of Applicant Alison Bickett	
3.	Name of Submitting Jurisdiction City of Naples	
4.	If this is a multi-jurisdictional application, please list the jurisdictions involved City of Naples is immediate stakeholder with access by FDOT & Collier County	
5.	Describe the project and its purpose, including the project limits (if applicable). Attachment	included?
	Project limits: Harbour Drive - Between US-41 and Crayton Road and Mooring Line Dri and Crayton Road. The project is proposed to provide fiber to both intersections (Crayton Rd. & Harbour D Mooring Line Dr.) for communication including video to each. This will allow the video Collier County and FDOT. The video could also assist with hurricane evacuations from	or and Crayton & to be shared with
6.	Amount of CMC/ITS SU Box funds being requested \$ Estimated Total Proj	ect Cost \$ TBD
	If SU Box funds are not requested, what funding source would be most appropriate	<u>;</u> ?
7.	Are there specific technical and/or monetary local contributions for this project? If you YES NO The City has preliminary intersection design plans for Crayton Rd. & Mooring Line Dr. and is preparing to hire design firms to provide 100	
8.	Anticipated time to complete the project 10-12 months for updated design plans and	d final completion.
9.	Does this project require the acquisition of Right-of-Way?	YES NO
10.	Is this project on a congested corridor? Identify the corridor.	YES NO
	Harbour Dr. and Mooring Line Dr Crayton Rd has a heavy amount of traffic	
11.	Does this project address a documented safety problem? Explain.	YES NO 🗸
12.	Does this project address a strategy listed on the implementation matrix?	YES 🖊 NO
13.	Does this project maintain concurrency with FDOT Regional ITS architecture?	YES 🗸 NO
14.	Does this project promote one or more multi-modal solutions by advancing recommendations from an adopted MPO study? Please identify.	YES NO V















B. PROJECT SPECIFIC DESCRIPTION:

CHECK ALL STATEMENTS BELOW THAT APPLY TO THE PROJECT WITH AN EXPLANATION OF HOW IT APPLIES.

*If project is funded, you will be expected to provide data to the MPO within 2 years and 5 years of construction/ implementation for performance measures selected. (*Each fillable area can accommodate multiples lines.*)

'	1. <u>Travel Demand</u> - Describe how the project addresses one or more of the following Performance Measures:
	a. Percent of roadway miles by volume to capacity (V/C) ratio
	b. Percent of vehicle miles traveled by volume to capacity (v/c) ratio
	c. Number of signalized intersections connected to ATMS This will connect the FDOT, Collier County and City systems.
	2. <u>Transit Travel</u> – Describe how the project addresses one or more of the following performance measures:
	a. Average bus route service frequency and number of routes
	b. Passenger trips (annual ridership)
	c. Passenger trips per revenue hour
	d. Transit on time performance
'	3. <u>Pedestrian/Bicycle Facilities</u> - Describe how project addresses one or more of the following Performance Measures:
	a. Centerline miles of bicycle lanes
	At Mooring Line Dr. & Crayton, the bike lane is proposed to better connect through the intersection.
	b. Linear miles of connector sidewalks on arterial roadways
	c. Linear miles of Shared Use paths adjacent to roadways
	4. <u>Goods Movement</u> – Describe how project addresses one or more of the following performance measures:
	a. Vehicle miles traveled (VMT) on designated truck routes with V/C greater than 1/0
	b. Number of crashes involving heavy vehicles/trucks















'	5.	<u>Safety-</u> Describe how project addresses one or more of the following performance measures:
		a. Total crashes
	*W	e can better manage and monitor the intersection for timing improvements, evacuations and response time.
		b. Motor vehicle severe injury crashes
		c. Motor vehicle fatal crashes
		d. Pedestrian and bicycle severe injury and fatal crashes
	6.	TDM- Describe how project addresses one or more of the following performance measures:
		 a. Number of people registered in the FDOT Commute Connector database that have an origin in Collier County
	7.	<u>Accessibility</u> Describe how project addresses one or more of the following performance measures:
		a. Share of regional jobs within ¼ mile of transit
		b. Share of regional households within ¼ mile of transit
/	8.	Incident Duration Describe how project addresses one or more of the following performance measures: a. Mean time for responders to arrive on scene after notification
	Th	improvements are expected to lead to a reduction in the response time with connectivity to the intersection.
		b. Mean incident clearance time
		c. Road Ranger stops
/	9.	<u>Customer Service</u> – Describe how project addresses one or more of the following performance measures:
		a. Report on nature of comments/responses and customer satisfaction
		s will allow our traffic staff to monitor the intersection for improved timings. In the event of an evacuation, we make timing adjustments to improve the evacuation time from the coastal areas.















District One Priority Project Information Packet

Please fill out this application completely. Please ensure all attachments are LEGIBLE Applications containing insufficient information will not be reviewed by the FDOT.

Name of Applying Agency: City of Naples Project Name: Fiber connections from US-41 to Mooring Line Drive & Crayton and Harbour & Crayton span-wire to mast arm intersection improvements **Project Category:** TRIP CIGP Congestion Management Transportation Alternative ⊠ Transit/Modal For more information on State Grant Programs (CIGP, SCOP, SCRAP, TRIP) please click here. Yes ⊠ No □ Is applicant LAP certified? Yes □ No ⊠ Is project on State Highway System? If the project is off the state system and the applicant is LAP certified the project will be programmed as a LAP project. Is the roadway on the Federal Aid Eligible System? No ⊠ Yes □ If yes, provide Federal Aid roadway number: Click here to enter text. If no, give local jurisdiction: Click here to enter text. http://www.fdot.gov/statistics/fedaid/

Detailed Project Limits/Location:

Describe begin and end points of project, EX., from ABC Rd. to XYZ Ave. Limits **run south to north or west to east.** Include jurisdiction (city/county), project length, attach a labeled project, map.

The location of the project is within the City of Naples in Collier County. The project begins at US-41 and Mooring Line Drive. The fiber line is proposed to extend approximately 1,300-ft. west to Crayton Road with infrastructure improvements at the intersection of Mooring Line Drive and Crayton Road. The start of the connection for the Harbour Drive section commences at US-41 and extends 2,500-ft west to Crayton Road with proposed intersection improvements at the intersection of Harbour Drive and Crayton Road.

Discuss how this project is consistent with the MPO/TPO Long Range Transportation Plan?

Page Number (attach page from LRTP): ES-3-6; 3-5,3-6, 3-10: Please see attached pages

Discuss the project in the local jurisdiction's Capital Improvement Plan?

(Attach page from CIP): The intersection improvements were previously proposed for roundabouts at both Mooring Line Dr. & Crayton and Harbour Dr. & Crayton. During this years budgeting discussions, City Council requested both interesections be designed as mast-arms and funding was identified to be used. The Department has sought proposals from the City's Qualified Firms for design of both intersection upgrades. The request is proposed to go before City Council on October 4, 2023. If approved, the City will have design plans in place for the intersection improvements in advance of construction.

		Proje	ect Description	on		
Phase(s) requested:			="		
Planning	Study □ PD&I	E□ PE⊠	ROV	V □ CST	⊠ CEI	
-	cost estimates by ntation in back-u			ailed cost estir	nate and	
Phase (PD&E, ROW CST)	Estimated	Funds Requested	Matching Local Funds	Local Fund Source	Type of M (Cash, in-k	
CST	\$1,998,153	1998153	0	0	0	
L		Total	Project Cost	: \$ 1,998,153		
improver	Details: Clearly de ments in detail. Ple or justify the propos needed):	ease provide stu	udies, docume	ntation, etc., co	ompleted to-dat	e to
Please s	ee Attachment A –	Project Scope				
		Constr	uctability Re	view		
For items	s 2-9 provide labele	ed and dated pl	notos (add add	ditional pages if	needed)	
	iscuss other projection	, ,			ocal, state or fe	deral)
2. D	oes the applicant l	have an adopte	d ADA transiti	on plan?	Yes ⊠	No □
	lentify areas within				it. (Include GIS	

3.	Is there a rail crossing along the project? Yes □ No ⊠ What is the Rail MP? Enter MP							
4.	Are there any transit stops/shelters/amenities within the project limits? Yes □ No ⊠							
	How many? Click here to enter text.							
	Stop ID number: Click here to enter text.							
5.	Is the project within 10-miles of an airport? Yes ⊠ No □							
6.	Coordinate with local transit and discuss improvements needed or requested for bus stops? (add additional pages if needed): Click here to enter text.							
7.	Are turn lanes being added? Yes □ No ⊠							
	If yes, provide traffic counts, length, and location of involved turn lanes. Click here to enter text.							
8.	Drainage structures:							
	 Discuss lengths and locations of each culvert along the roadway: Click here to enter text. 							
	 Discuss the disposition of each culvert and inlet. Which culverts are "to remain" and which are to be replaced, upgraded, or extended? Click here to enter text. 							
	 Discuss drainage ditches to be filled in? (Discuss limits and quantify fill in cubic yards) None 							
	 Describe the proposed conveyances system (add additional pages if needed.) Click here to enter text. 							
	Are there any existing permitted stormwater management facilities/ponds within the project limits? Yes □ No ☒							
	If yes, provide the location and permit number (add additional pages if needed) Click here to enter text.							

Click here to enter text.

	 Discuss proposed stormwater management permits needed for the improvements. It is not anticipated that the improvements will trigger a SFWMD permit.
	 List specific utilities within project limits and describe any potential conflicts (addadditional pages if needed): Click here to enter text.
	Discuss Bridges within project limits? none
	 Can bridges accommodate proposed improvements? Yes ⋈ No ☐ If no, what bridge improvements are proposed? (Offset and dimensions of the improvements, add additional pages if needed): Click here to enter text.
9.	Has Right-of-way (ROW), easements, or ROW activity already been performed/acquire for the proposed improvements? If yes, please provide documentation
	Yes ⊠ No □
	If ROW or Easements are needed detail expected area of need (acreage needed, ownership status): No ROW or easements are anticipated to be needed.
10.	Discuss required permits (ERP, Drainage, Driveway, Right of Way, etc.): Local permits may be necessary for the improvements, including Right-of-Way. An ERP is not anticipated.
	If none are needed, state the qualified exemption: Click here to enter text.
11.	Are there any wetlands within the project limits? Yes □ No ⊠
	If yes, list the type of wetlands, estimated acreage and if mitigation will be required. Please note whether the project is within the geographic service area of any approved mitigation banks. Provide any additional information: Click here to enter text.
12.	Are there any federal or state listed/protected species within the project limits? Yes □ No ⊠
	If yes, list the species and what, if any mitigation or coordination will be necessary: Clickhere to enter text.
	If yes, discuss critical habitat within the project limits: Click here to enter text.

13.	archaeological resources (include year, project, result None.	•	a for flistorical	anu
14.	Are any Recreational, historical properties or resource property within the project limits? (Provide details) Click here to enter text.	es covered ur ′es □	nder section 4(i No ⊠	f)
15.	Discuss whether any prior reviews or surveys have be which may have potential contamination involvement. This should include a discussion of locations which m location, or be which may be exacerbated by the consimprovements. No prior reviews or studies indicate an	with the prop nay directly im struction of th	osed improven pact the projec e proposed	nents.
16.	Are lighting improvements requested as part of this properties of the properties of	-	Yes □ ng.	No ⊠
17.	Is a mid-block crossing proposed as part of the project lf yes, please provide the justification for mid-block croclick here to enter text.		Yes □	No ⊠

Required Attachments

- A. Detailed Project Scope with Project Location Map with sufficient level of detail (Please include typical section of proposed improvements)
- B. Project Photos dated and labeled (this is important!)
- C. Detailed Cost Estimates including Pay Items
- D. LRTP and Local CIP page
- E. Survey/As-builts/ROW documentation/Utility/Drainage information
- F. Detailed breakdown of ROW costs included in estimate (if ROW is needed/included in request or estimate)

Applicant Contact Information

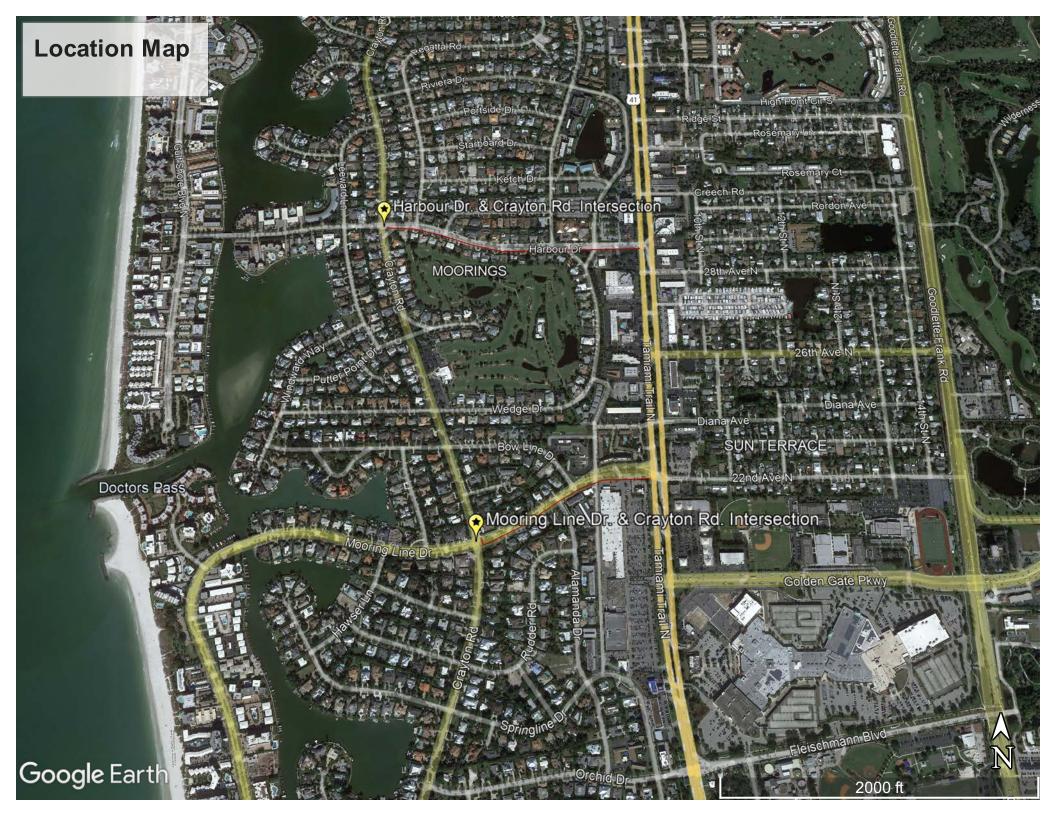
Agency Name:
Mailing Address: 295 Riverside Circle, Naple, FL 34102
Contact Name and Title: Alison Bickett, P.E Traffic Engineer
Email: abickett@naplesgov.com Phone: 239-213-5014
Signature: Date: 9/29/2023 Your signature indicates that the information included with this application is accurate.
<u>Maintaining Agency</u> :
Contact Name and Title: Bob Middleton – Public Works Director
Email: rmiddleton@naplesgov.com Phone: 239-213-5003
Signature: Date: 9/29/2023 Your signature serves as a commitment from your agency to maintain the facility requested.
MPO/TPO: Contact Name and Title: Click here to enter text.
Email: Click here to enter text. Phone: Click here to enter text.
Signature: Date:
Your signature confirms the request project is consistent with all MPO/TPO plans and
documents, is eligible, and indicates MPO/TPO support for the project.

ATTACHMENT A - PROJECT SCOPE

The City of Naples currently does not have fiber connections along Harbour Drive or Mooring Line Drive between US-41 to Crayton Road. The proposed fiber would provide connectivity between US-41 and the intersections of Crayton Road & Harbour Drive and Crayton Road & Mooring Line Drive. Both of the two intersections are currently span-wire assemblies. The City is proposing to replace their existing span wire intersections with mast arms to reduce the chance of losing signal operation after severe storms. This is consistent with the State system requirements. The Department's Plans Preparation Manual, Topic No. 625-000-007, Volume 1 – Chapter 7 requires that all traffic signals installed on the State Highway System that are within the Mast Arm Structures Boundary shall be supported by mast arms. Per FDOT's Traffic Engineering Manual, Section 3.5, it states "The mast arm structures boundary map follows an alignment of state roads that are parallel to an approximate ten miles distance to the coastline. This request includes adding conduit, pull boxes, fiber and tracer wire for the fiber connections and upgrades of the current span-wire systems." The existing locations are within 0.6 of a mile from the coast. With the need for resiliency the span-wire intersections are in need of upgrade.

The City previously put together a preliminary design and requested a proposal for the intersection upgrades at Mooring Line Drive and Crayton Rd. The preliminary design included striping adjustments (keyhole) for the bike lane approach along Mooring Line Drive westbound heading into the intersection for increased bike safety. The preliminary design is included in this package. The City has budgeted for design of the intersection improvements to upgrade the span-wire intersections to mast arms at both the Mooring Line Drive & Crayton Rd. location as well as the Harbour Drive and Crayton Rd location. The upgrades were proposed approximately 8 years ago but never moved forward as there was interest in roundabouts. Earlier this year, City Council voted to maintain signalized intersections at each location.

This project, shall it be funded, will provide an opportunity for quicker response time for accidents, monitoring of the area for traffic conditions, resiliency for future adverse conditions and being in a coastal area, they are primary routes for residents from the coast during evacuations. The connections will provide interlocal sharing of video and software data for the intersections between the City of Naples, Collier County, FDOT and the Collier County EOC.



Harbour Drive from Crayton Rd to US41



2,500' of Orange Conduit
5 Pull Boxes

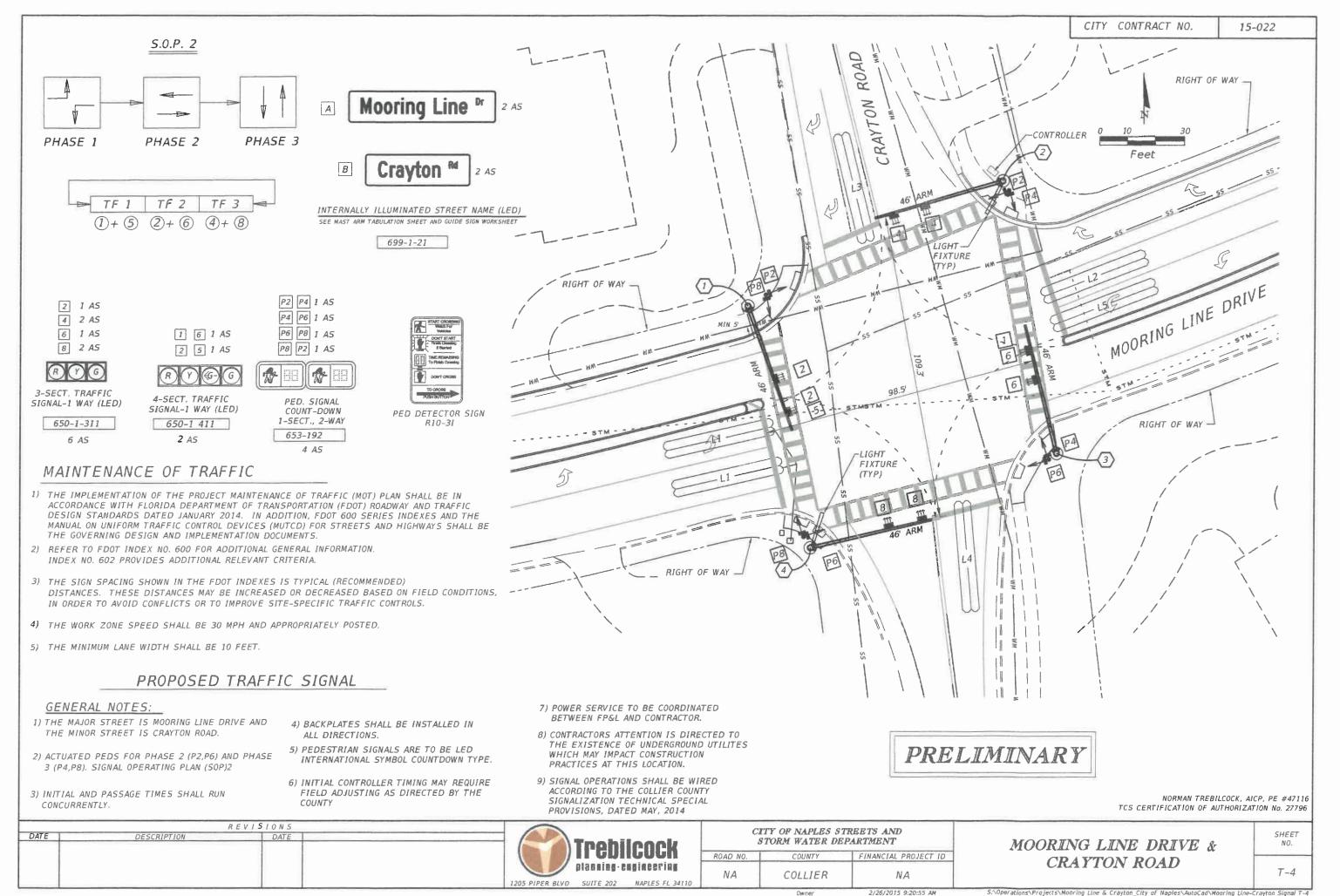
2700' (48) Fibet 2700' Tracer wire (#10)

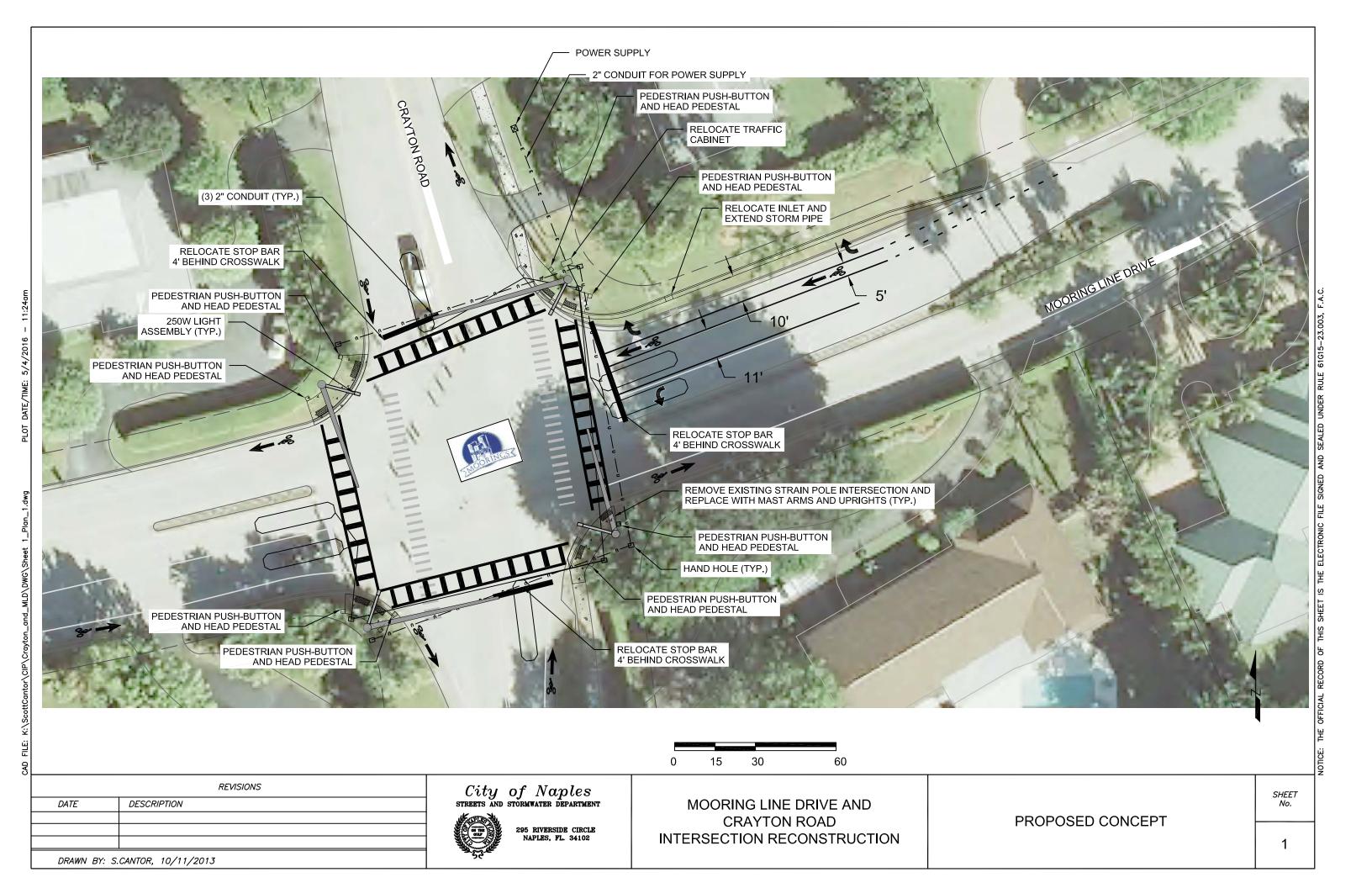
Mooring Line Dr from Crayton Rd to USHI



1800' of Orange Conduit
5 Pull Boxes

2000' (48) Fiber 2000' Tracer wire (#10)





Harbour Drive and Crayton Rd. Intersection



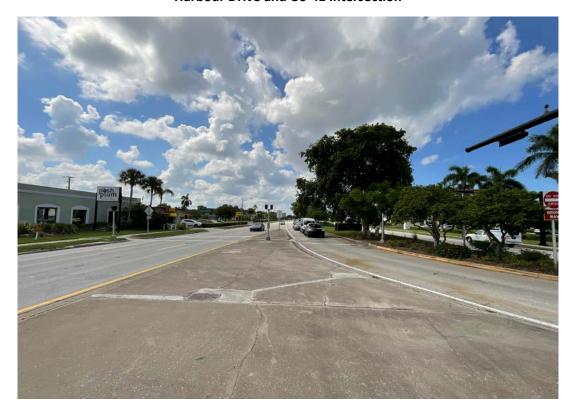








Harbour Drive and US-41 Intersection





















Attachment B

















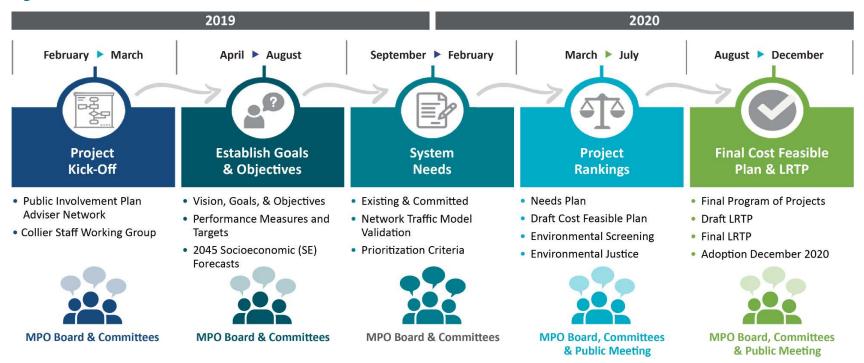
ATTACHMENT C

City of Naples

Fiber Connections and Mast Arm Intersection Improvements - Cost Estimate

DESCRIPTION		UNIT PRICE	QUANTITY	TOTAL
Orange Conduit	FT	\$3.03	4300	\$ 13,033.30
Pull Boxes	EA	\$243.65	10	\$ 2,436.50
Fiber	FT	\$1.45	4700	\$ 6,837.94
#10 Tracer Wire	FT	\$0.65	4700	\$ 3,050.30
Mobilization	LS	\$22,000.00	2	\$ 44,000.00
MOT	LS	\$20,160.00	2	\$ 40,320.00
Conduit Open Trench	LF	\$25.25	400	\$ 10,100.80
Conduit Directional Bore	LF	\$62.42	4840	\$ 302,122.48
Signal Cable	PI	\$12,272.00	2	\$ 24,544.00
Pull Box	EA	\$1,345.20	32	\$ 43,046.40
Electric Service UG	AS	\$3,103.40	2	\$ 6,206.80
Electric Service Wire	LF	\$23.01	240	\$ 5,522.40
Prestressed Concrete Pole	EA	\$1,817.20	2	\$ 3,634.40
Remove Concrete Strain Pole	EA	\$6,136.00	4	\$ 24,544.00
Aluminum Signal Poles	EA	\$2,926.40	16	\$ 46,822.40
Mast Arm Single Arm	EA	\$94,000.00	8	\$ 752,000.00
Traffic Signal 3 Section 1 Way	AS	\$2,400.00	12	\$ 28,800.00
Traffic Signal 5 Section 1 Way	AS	\$3,600.00	4	\$ 14,400.00
Pedestrian Signal LED 1 Way	AS	\$1,333.40	16	\$ 21,334.40
Loop Detector	AS	\$500.00	14	\$ 7,000.00
Loop Assembly Type F	AS	\$2,000.00	14	\$ 28,000.00
Vehicle Detection Pre Empt	EA	\$15,000.00	2	\$ 30,000.00
Vehicle Detection Optical Pre Empt	EA	\$3,700.00	8	\$ 29,600.00
Pedestrian Detector	EA	\$425.00	16	\$ 6,800.00
Installl Traffic Signal Controller	AS	\$9,500.00	2	\$ 19,000.00
Install UPS System	AS	\$1,003.00	2	\$ 2,006.00
Internally Illuminated Sign	EA	\$7,721.92	8	\$ 61,775.36
ADA adjustments-intersection curb ramps, etc.	EA	\$70,000.00	1	\$ 70,000.00
Restoration	EA	\$10,000.00	2	\$ 20,000.00
Inlet adjustments (intersections)	EA	\$45,000.00	2	\$ 90,000.00
Geotech - structural	EA	\$75,000.00	2	\$ 150,000.00
F-Curb	LF	\$34.98	150	\$ 5,247.00
Asphalt	TN	\$191.23	421	\$ 80,507.83
Striping - 6"	LF	\$0.97	1250	\$ 1,212.50
Striping - 12"	LF	\$2.36	1500	\$ 3,540.00
Striping - 24"	LF	\$4.72	150	\$ 708.00
			TOTAL	\$ 1,998,152.81

Figure ES-3. Plan Process



The project evaluation criterion showed the advantages and disadvantages of the proposed projects independently as well as in relation to each other. This type of evaluation was ultimately used to develop the recommendations and prioritize transportation projects in the Needs Plan and Cost Feasible Plan. The following presents the evaluation criteria and weighting factor used for each goal.

- Goal #1: Ensure the Security of Transportation System for Users – 8 percent weighting factor
 - Project Evaluation Criteria:
 - Improves or maintains critical evacuation routes

- Provides enhanced or potential new evacuation routes where needed
- Goal #2: Protect Environmental Resources 12 percent weighting factor
 - o Project Evaluation Criteria:
 - Minimize wetland encroachments by transportation projects
 - Minimize impacts to wetland flows (maintain or enhance existing flows to the extent feasible)
 - Minimize the adverse impacts on threatened and endangered species

- Goal #3: Improve System Continuity and Connectivity 10 percent weighting factor
 - o Project Evaluation Criteria:
 - Improves existing infrastructure deficiencies
 - Improves connectivity with new transportation links to address system gaps
- Goal #4: Reduce Roadway Congestion 18 percent weighting factor
 - o Project Evaluation Criteria:
 - Improves existing deficient facility or improves a new or neighboring facility intended to relieve an existing deficient facility
 - Improves intersections and roadways with poor levels of service
- Goal #5: Promote Freight Movement 6 percent weighting factor
 - o Project Evaluation Criteria:
 - Enhances operation of the facility identified as a major freight route
- Goal #6: Increase the Safety of the Transportation System for Users – 10 percent weighting factor
 - Project Evaluation Criteria:
 - Enhances safety of transportation system users
 - Improves facility or intersection identified as having a high crash occurrence or a fatality
 - Promotes traffic calming
 - Reduces vehicular conflicts with bicyclists, pedestrians, and other vulnerable road users

- Goal #7: Promote Multimodal Solutions 10 percent weighting factor
 - Project Evaluation Criteria:
 - Provides for trail improvements that implement the Bicycle and Pedestrian Master Plan
 - Provides multimodal improvement near affordable housing, centers of employment, multi-family housing, health care, educational, recreational, or cultural centers
 - Provides multimodal improvements for Environmental Justice communities and underserved neighborhoods, and connects these neighborhoods to centers of employment and important destinations for transit-dependent households
 - Improves transit (frequency and reliability) within existing or future transit service areas or within a community redevelopment area (CRA); improves access to park-and-ride facilities; provides for BRT
 - Improves bicycle or pedestrian access to transit
 - Improves safety and access for people of all ages and abilities; improves safety for people walking, biking, and using mobility devices

 Goal #8: Promote the Integrated Planning of Transportation and Land Use – 10 percent weighting factor

Project Evaluation Criteria:

- Improves access to regional travel (for example, interstates, airports, ports, and Strategic Intermodal System [SIS] facilities)
- Improves access to tourist destinations
- Supports targeted redevelopments or CRAs (multimodal or vehicle improvements)
- Identified in partner agency (city, transit, county, MPO, etc.) plans as a priority
- Goal #9: Promote Sustainability in the Planning of Transportation and Land Use – 8 percent weighting factor

Project Evaluation Criteria:

 Benefits low-income areas and improves sustainability through increased housing choices and reduced automobile dependency



 Goal #10: Consider Climate Change Vulnerability and Risk in Transportation Decision-Making – 4 percent weighting factor

Project Evaluation Criteria:

- Promotes transportation infrastructure resiliency in the face of climate change and sea level rise
- Goal #11: Consider Connected and Autonomous Vehicles
 (CAV) Technology in Future 4 percent weighting factor

Project Evaluation Criteria:

 Uses technological improvements (for example, Intelligent Transportation System (ITS), Transit Signal Priority, etc.)

The federal government's Fixing America's Surface Transportation Act includes several planning factors required for long-range transportation planning. The LRTP goals and objectives incorporate the federal planning factors required for all MPOs to address through planning. **Table ES-1** illustrates which 2045 LRTP goals meet the federal planning factor requirements.



Table ES-1. LRTP Goals and Federal Planning Factors

Federal Planning Factors	Goal 1 Ensure the Security of the Transportation System for Users		Goal 3: Improve System Continuity and Connectivity	Goal 4: Reduce Roadway Congestion	Goal 5: Promote Freight Movement	Goal 6: Increase the Safety of the Transportation System for Users	Goal 7: Promote Multimodal Solutions	Goal 8: Promote the Integrated Planning of Transportation and Land Use	Goal 9: Promote Sustainability in the Planning of Transportation and Land Use	Goal 10: Consider Climate Change Vulnerability and Risk in Transportation Decision-Making
Safety						✓				
Security	✓									
Accessibility & Mobility			✓	✓			✓	✓		
Multimodal Connectivity			✓				✓		✓	
System Preservation										✓
Economic Vitality					✓		✓			
Environmental Quality		✓							✓	
System Efficiency				✓	✓			✓		
Resiliency & Reliability	✓			✓						✓
Transit & Tourism							✓	✓		

Goal #1: Ensure the Security of Transportation System for Users



The primary security issue for Collier County residents relates to implementation of sound emergency management plans. The primary threat to the County is extreme weather events, particularly hurricanes and wildfires. As a result, emphasis has been placed on enhancing important evacuation

routes.

The total weighting factor for this goal is 8 percent.

Objectives:

- Enhance important evacuation routes
- Maintain sound transportation components of the emergency management plan for Collier County

Project Evaluation Criteria:

- Improves or maintains critical evacuation routes
- Provides enhanced or potential new evacuation routes where needed

Goal #2: Protect Environmental Resources



Collier County is fortunate to have wide-ranging environmental resources including extensive wetland resources and natural wildlife areas that greatly enhance the quality of life for residents and visitors. Protection of these resources has been highly valued in the 2045 LRTP.

The total weighting factor for this goal is 12 percent.

Objectives:

- Minimize encroachment by transportation projects on wetlands and other protected natural areas
- Minimize adverse impacts on threatened and endangered species

Project Evaluation Criteria:

- Minimize wetland encroachments by transportation projects
- Minimize impacts to wetland flows (maintain or enhance existing flows to the extent feasible)
- Minimize the adverse impacts on threatened and endangered species

Goal #10: Consider Climate Change Vulnerability and Risk in Transportation Decision-Making



A resilient transportation system is one that supports mobility, system preservation, and evacuation needs, and addresses social equity.

The total weighting factor for this goal is 4 percent.

Objectives:

- Identify key climate impacts (rising sea levels, hurricanes, etc.)
- Identify sensitive assets and thresholds for impacts
- Identify, evaluate, and adopt strategies to address identified vulnerabilities
- Screen projects during planning to avoid making investments in particularly vulnerable areas

Project Evaluation Criteria:

 Promotes transportation infrastructure resiliency in the face of climate change and sea level rise

Goal #11: Consider Connected and Autonomous Vehicles (CAV) Technology in Future



Advances in automotive infrastructure technology through connected vehicles or self-driving cars pose some of the biggest challenges to transportation planning (for example, equity among users). The potential for disruptions to transportations systems includes changes to land uses and the

system network itself. However, because of the potential safety benefits, the Collier MPO is exploring ways to incorporate these technologies into the transportation network.

The total weighting factor for this goal is 4 percent.

Objectives:

- Explore options for application and implementation of CAV technologies, in light of the lack of current guidance
- Consider new guidance and developments during the LRTP process

Project Evaluation Criteria:

 Uses technological improvements (for example, ITS, Transit Signal Priority, etc.)

Goal #3: Improve System Continuity and Connectivity



Continuity and connectivity make it easier for residents and visitors to access the transportation system as directly as possible. Connectivity is a priority for all modes, and the future network provides direct routes and reduces travel time.

The total weighting factor for this goal is 10 percent.

Objectives:

- Improve continuity and capacity of existing facilities
- Promote connectivity by creating new transportation links
- Create a network of direct routes between and within areas of development

Project Evaluation Criteria:

- Improves existing infrastructure deficiencies
- Improves connectivity with new transportation links to address system gaps

Goal #4: Reduce Roadway Congestion



Congestion and accompanying delay poses a serious cost to the residents of Collier County, reducing their access to jobs, education, health care, shopping, recreation, and other activities. The 2045 LRTP emphasizes reducing congestion to help enhance the quality of life for County residents.

The total weighting factor for this goal is 18 percent.

Objectives:

- Reduce the number of deficient roadways (those with a high volume-to-capacity ratio) identified in the 2045 existing plus committed (E+C) network
- Reduce travel delay between residential areas and key destinations

Project Evaluation Criteria:

- Improves existing deficient facility or improves a new or neighboring facility intended to relieve an existing deficient facility
- Improves intersections and roadways with poor levels of service

CAPITAL IMPROVEMENT PROJECTS STREETS & TRAFFIC - FUND 190

CIP ID	PROJECT DESCRIPTION	AMENDED BUDGET 2022-23	DEPT REQUEST 2023-24	2024-25	2025-26	2026-27	2027-28
	Annual Pavement Resurfacing Program*	1,000,000	750,000	750,000	750,000	750,000	750,000
	Total Programs Budgeted in the Operations Budget	1,000,000	750,000	750,000	750,000	750,000	750,000
24U29	Pedestrian & Bicycle Master Plan Projects**	175,000	150,000	150,000	150,000	150,000	150,000
24U01	Intersection/Signal System Improvements***	375,000	700,000	700,000	900,000	700,000	700,000
	CRA Improvements - Pavement Markings and Signage	125,000	0	75,000	0	0	0
	Annual Alleyway Improvement Project	0	0	250,000	250,000	250,000	250,000
	Traffic Management Center & Systems Improvements	25,000	0	0	0	0	0
	Lantern Lane Drainage & Street Resurfacing Project	80,000	0	0	0	0	0
	Total Streets and Traffic CIP Budget	780,000	850,000	1,175,000	1,300,000	1,100,000	1,100,000
	TOTAL STREETS AND TRAFFIC FUND	1,780,000	1,600,000	1,925,000	2,050,000	1,850,000	1,850,000

^{*} Pavement resurfacing is budgeted in the operations budget "Road Resurfacing" line item, and identified on the CIP list for information only.

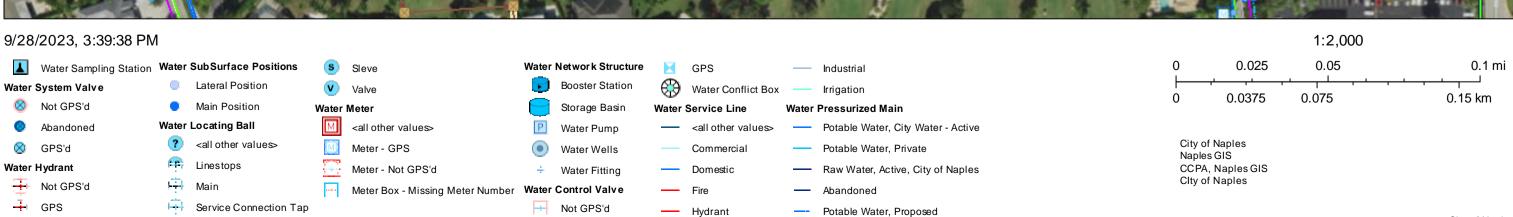
** Ped & Bike projects are prioritized and described within the 2022 Update of the Ped-Bike Master Plan.

*** Construction of Crayton & Harbour and 9th Street S & 10th Avenue. Out year construction Crayton & Mooring Line, design of Fleischmann & 10th Street Broad & 8th Street South.

	FDOT FUNDED PROJECTS	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
FDOT	Reimbursement for Traffic Signal Operations on US41	109,649	143,013	147,303	154,668	0	0
FDOT	Reimbursement for US41 Street Lighting	180,198	165,567	0	0	0	0
FDOT	Reimbursement for Traffic Operations Center	28,500	28,500	28,500	28,500	0	0
FDOT	Orchid Drive Pedstrian Bicycle Connection	0	0	0	0	349,407	0
FDOT	South Golf Drive Bike Lane/Sidewalk: Gulf Shore Blvd to W US41	0	1,980,749	0	0	0	0
FDOT	Bicycle Detection Systems at 4 intersections	0	67,429	0	0	0	0
FDOT	26th Avenue North Sidewalks	0	55,000	0	678,588	0	0
FDOT	TOTAL	318,347	2,440,258	175,803	861,756	349,407	0

City of Naples Utilities

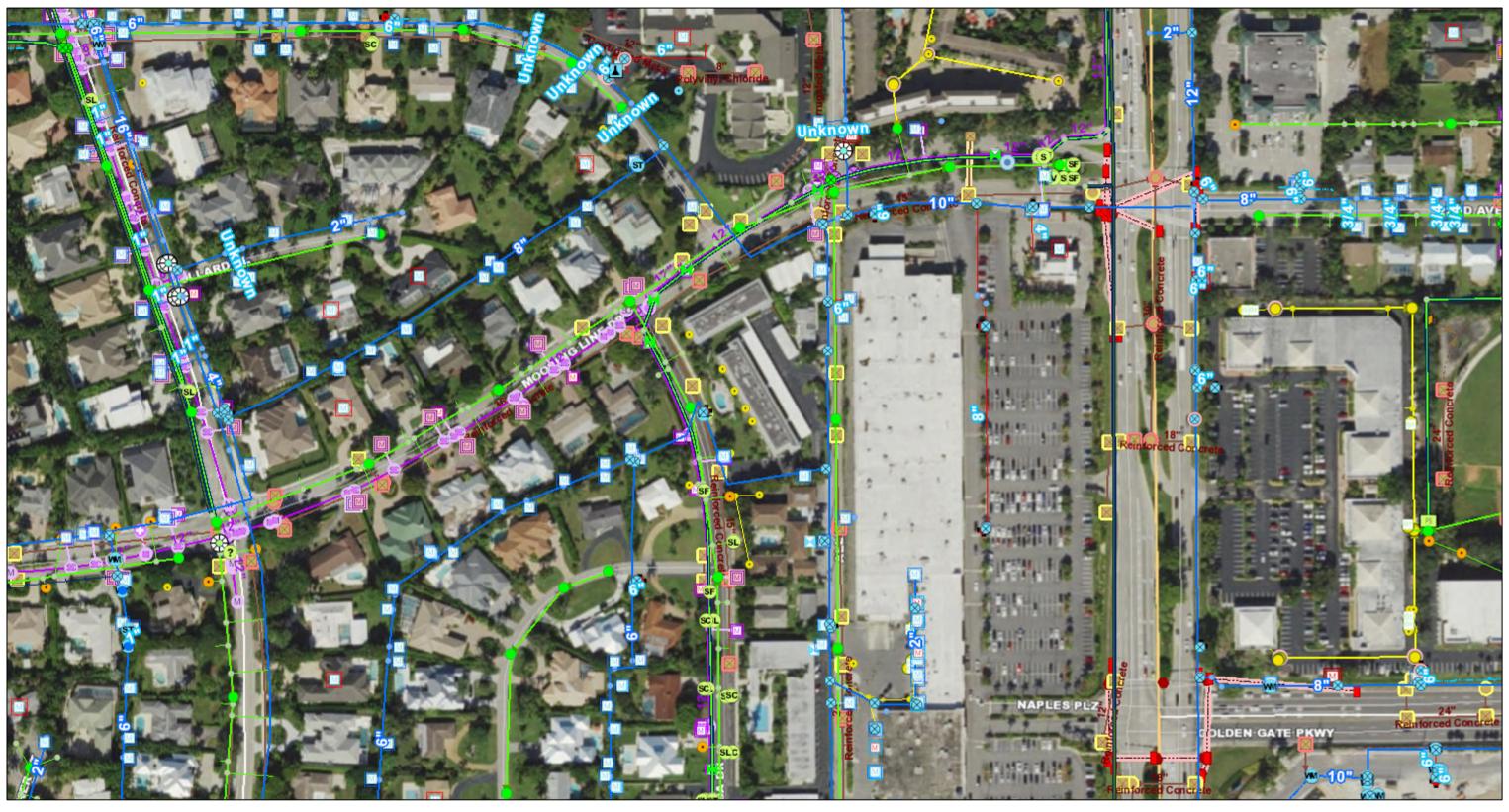


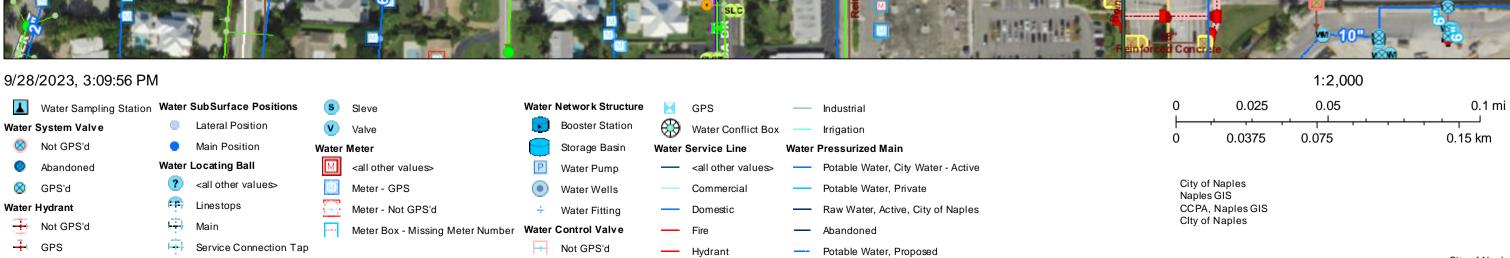


City of Naples Stormwater



City of Naples Utilities





City of Naples Stormwater



2022 CMP Congestion Management Strategy & Performance Measure Matrix

	Submitting		Funding	Congestion Management	CMP Performance
Project Name	Agency	Description	Request	Strategy	Measure(s)
Fiber connections from US-41					
to Mooring Line Drive &		Fiber connections to			
Crayton and Harbour & Crayton		intersections and upgrades			
span-wire to mast arm		from the existing span-wire			safety, customer service, incident
intersection improvements	City of Naples	assembly	\$1,998,153	Demand mangement & Safety	duration

Source: Collier MPO – Congestion Management

Process 2022 Update



Collier MPO Congestion Management - Project Concept Sheet 2023

(Each fillable area can accommodate multiples lines.)

A.	REQU	JIRED	PROJEC1	Γ INFORMATION:
----	------	-------	---------	----------------

1.	Name of Project US 41 from 3rd Ave to SR 84 Intersection/Mobility Improvements P	D&E					
2.	Name of Applicant Alison Bickett						
3.	Name of Submitting Jurisdiction City of Naples						
4.	If this is a multi-jurisdictional application, please list the jurisdictions involved Collier County, FDOT, City of Naples, are immediate stakeholders; and affects region	nal travel.					
5.	Describe the project and its purpose, including the project limits (if applicable). Attachmen	nt included?					
	Project limits: US 41 from 3rd Ave to SR84 (Davis Blvd) Analyze cumulative effect of redevelopment projects on roadways functionality from a Perspective utilizing a Safe Systems approach.	a Complete Streets					
6.	Amount of CMC/ITS SU Box funds being requested \$ 1.1 M Estimated Total Pro	oject Cost \$ _TBD					
	If SU Box funds are not requested, what funding source would be most appropria	te?					
7.	Are there specific technical and/or monetary local contributions for this project? If YES NO	yes, please explain.					
8.	Anticipated time to complete the project 12-18 months						
9.	Does this project require the acquisition of Right-of-Way?	YES NO 🗸					
10.	Is this project on a congested corridor? Identify the corridor.	YES NO					
	US 41						
11.	Does this project address a documented safety problem? Explain.	YES 🖊 NO					
	bicycle and pedestrian safety at intersections and on Gordon River Bridge						
12.	Does this project address a strategy listed on the implementation matrix?	YES 🖊 NO					
13.	Does this project maintain concurrency with FDOT Regional ITS architecture?	YES NO 🗸					
14.	Does this project promote one or more multi-modal solutions by advancing recommendations from an adopted MPO study? Please identify.	YES NO					
	Physical Roadway Capacity enhancement, Bicycle & Pedestrian, Transit, Safety						















B. PROJECT SPECIFIC DESCRIPTION:

CHECK ALL STATEMENTS BELOW THAT APPLY TO THE PROJECT WITH AN EXPLANATION OF HOW IT APPLIES.

*If project is funded, you will be expected to provide data to the MPO within 2 years and 5 years of construction/implementation for performance measures selected. (*Each fillable area can accommodate multiples lines.*)



- 1. <u>Travel Demand</u> Describe how the project addresses one or more of the following Performance Measures:
 - a. Percent of roadway miles by volume to capacity (V/C) ratio

PD&E may identify ways to improve V/C ratio, or to accommodate additional traffic without V/C ratio worsening

- b. Percent of vehicle miles traveled by volume to capacity (v/c) ratio
- c. Number of signalized intersections connected to ATMS

PD&E will identify ways to improve the movement vehicles through signalized intersections.



- 2. <u>Transit Travel</u> Describe how the project addresses one or more of the following performance measures:
 - a. Average bus route service frequency and number of routes
 - b. Passenger trips (annual ridership)

PD&E may identify Improvements that ultimately increase passenger trips on bus route

- c. Passenger trips per revenue hour
- d. Transit on time performance

PD&E may identify improvements that increase on time performance



- 3. <u>Pedestrian/Bicycle Facilities</u> Describe how project addresses one or more of the following Performance Measures:
 - a. Centerline miles of bicycle lanes

PD&E may identify improvements that would enhance safety of existing lanes

b. Linear miles of connector sidewalks on arterial roadways

PD&E may identify improvements that enhance safety and comfort of pedestrians rather than add to miles.

c. Linear miles of Shared Use paths adjacent to roadways

PD&E may lead to wider sidewalks that can function as shared use paths

- ~
- 4. <u>Goods Movement</u> Describe how project addresses one or more of the following performance measures:
 - a. Vehicle miles traveled (VMT) on designated truck routes with V/C greater than 1/0

PD&E may identify improvements that reduce congestion and thereby increase VMT

b. Number of crashes involving heavy vehicles/trucks















'	5.	Safety- Describe	e how project addresses one or more of the following performance measures:							
		a.	Total crashes							
	PD&E will evaluate current conditions and propose mitigation strategies									
	b. Motor vehicle severe injury crashes									
		C.	Motor vehicle fatal crashes							
		d.	Pedestrian and bicycle severe injury and fatal crashes							
	PD	0&E will evaluate o	current conditions and propose mitigation strategies							
	6.	TDM– Describe ł	now project addresses one or more of the following performance measures:							
		a.	Number of people registered in the FDOT Commute Connector database that have an origin in Collier County							
	7.	<u>Accessibility –</u> De	escribe how project addresses one or more of the following performance measures:							
		a.	Share of regional jobs within ¼ mile of transit							
		b.	Share of regional households within ¼ mile of transit							
	8.	Incident Duratio	n– Describe how project addresses one or more of the following performance measures:							
		a.	Mean time for responders to arrive on scene after notification							
		b.	Mean incident clearance time							
		C.	Road Ranger stops							
	9.	Customer Service	<u>ce</u> Describe how project addresses one or more of the following performance measures:							
		a.	Report on nature of comments/responses and customer satisfaction							













2022 CMP Congestion Management Strategy & Performance Measure Matrix

	Submitting		Funding	Congestion Management	CMP Performance
Project Name	Agency	Description	Request	Strategy	Measure(s)
		Analyze cumulative effects of redevelopment projects on			
		US41's functionality from a			
		Complete Streets Perpective and			
US41 from 3rd Ave to Sr 84		address Bike - Ped Safety			PD&E to look at ways to improve V/C
Intersection / Mobility		Concerns utilizing a Safe Systems			ratio or to accommodate increased
Improvements PD&E	City of Naples	approach.	\$1,118,220	Physical Roadway Capacity Enhancement	traffic without V/C ratio worsening
	, ,	, .	. , ,	, , ,	PD&E will identify improvements that
					enhance safety of bike-ped facilities;
					may identify improvements that lead
					to wider sidewalks as shared use
				Bicycle & Pedestrian	paths
					PD&E to look at improvements that may increase passenger trips on bus
				Transit	route
				Halisit	Toute
					PD&E will identify improvements that
				Safety	enhance safety of bike-ped facilities



(Attach page from CIP): Click here to enter text.

District One Priority Project Information Packet

Please fill out this application completely. Please ensure all attachments are LEGIBLE Applications containing insufficient information will not be reviewed by the FDOT.

77		•					
Name of Applying Agency: City of Naples							
Project Name: US41 from 3rd Ave to SR 84 Intersection/Mobility Improvements PD&E							
Project Category:							
Congestion Management ⊠ TRIP □	CIGP						
Transportation Alternative □ Transit/Modal □							
For more information on State Grant Programs (CIGP, So	COP, SCRAP, T	RIP) please click here.					
Is applicant LAP certified?	Yes ⊠	No □					
Is project on State Highway System? If the project is off the state system and the applicant is L programmed as a LAP project.	Yes ⊠ .AP certified the	No □ project will be					
Is the roadway on the Federal Aid Eligible System? If yes, provide Federal Aid roadway number: Click here to If no, give local jurisdiction: Click here to enter text. http://www.fdot.gov/statistics/fedaid/		No □					
Detailed Project Limits/Location: Describe begin and end points of project, EX., from ABC north or west to east. Include jurisdiction (city/county), map. US 41 from 3 rd Ave S to SR 84 (Davis Blvd)							
Discuss how this project is consistent with the MPO/	TPO Long Ran	ge Transportation					
Plan? Page Number (attach page from LRTP): p6-17 SU Box attached							
Discuss the project in the local jurisdiction's Capital Improvement Plan?							

Project Description Phase(s) requested: Planning Study □ PD&E ⊠ PE \square ROW CST □ CEI 🗆 Project cost estimates by phase (Please include detailed cost estimate and documentation in back-up information): Phase Estimated Local Fund Matching Type of Match (PD&E, ROW, PE, **Funds Requested** Total Cost Local Funds (Cash. in-kind) Source CST) PD&E 1188222 1188222 0 n/a [Number] [Number] [Fund Source] [Phase] [Number] [Match Type] [Phase] [Number] [Number] [Number] [Fund Source] [Match Type] [Phase] [Number] [Number] [Number] [Fund Source] [Match Type] Total Project Cost: \$1,188,222 Project Details: Clearly describe the existing conditions and the proposed project and desired improvements in detail. Please provide studies, documentation, etc., completed to-date to support or justify the proposed improvements. Include labeled photos and maps. (Add additional pages if needed): Not applicable. **Constructability Review** For items 2-9 provide labeled and dated photos (add additional pages if needed) 1. Discuss other projects (ex. drainage, utility, etc.) programmed (local, state or federal) within the limits of this project? Click here to enter text. 2. Does the applicant have an adopted ADA transition plan? Yes ⊠ No □ Identify areas within the project limits that will require ADA retrofit. (Include GIS coordinates for stops and labeled photos and/or map.) Click here to enter text. 3. Is there a rail crossing along the project?

4. Are there any transit stops/shelters/amenities within the project limits? Yes \boxtimes $\;\;$ No \Box

How many? Click here to enter text.

No ⊠

What is the Rail MP?

Yes □

Enter MP

Stop ID number: Click here to enter text.

5.	. Is the project within 10-miles of an airport? Yes □ No □								
6.	Coordinate with local transit and discuss improvements needed or requested for bus stops? (add additional pages if needed): Click here to enter text.								
7.	. Are turn lanes being added? Yes \square No \square								
	If yes, provide traffic counts, length, and location of involved turn lanes. Click here to enter text.								
8.	 Drainage structures: Number of culverts or pipes currently in place: Click here to enter text. 								
	 Discuss lengths and locations of each culvert along the roadway: Click he enter text. 	re to							
	 Discuss the disposition of each culvert and inlet. Which culverts are "to remain" and which are to be replaced, upgraded, or extended? Click here to enter text. 								
	 Discuss drainage ditches to be filled in? (Discuss limits and quantify fill in cubic yards) Click here to enter text. 								
 Describe the proposed conveyances system (add additional pages if no Click here to enter text. 									
	 Are there any existing permitted stormwater management facilities/ponds the project limits? Yes □ No □ 	within							
	 If yes, provide the location and permit number (add additional pages if no Click here to enter text. 	eeded)							
	 Discuss proposed stormwater management permits needed for the improvements. Click here to enter text. 	· · ·							
 List specific utilities within project limits and describe any potential cor additional pages if needed): Click here to enter text. 									
	Discuss Bridges within project limits? Click here to enter text.								
	 Can bridges accommodate proposed improvements? Yes If no, what bridge improvements are proposed? (Offset and dimensions of improvements, add additional pages if needed): Click here to enter text. 	No □ of the							

9.	Has Right-of-way (ROW), easements, or ROW activity already been performed/acquired for the proposed improvements? If yes, please provide documentation						
	Yes □ No □						
	If ROW or Easements are needed detail expected area of n ownership status): Click here to enter text.	need (acrea	ge needed,				
10.	 Discuss required permits (ERP, Drainage, Driveway, Right of enter text. 	of Way, etc.): Click here to				
	If none are needed, state the qualified exemption: Click here to enter text.						
11.	11. Are there any wetlands within the project limits? Yes □	l No [
	If yes, list the type of wetlands, estimated acreage and if mit Please note whether the project is within the geographic set mitigation banks. Provide any additional information: Click here to enter text.	•	•				
12.	12. Are there any federal or state listed/protected species within Yes \square No \square	n the projec	t limits?				
	If yes, list the species and what, if any mitigation or coordinate to enter text.	ation will be	necessary: Click				
	If yes, discuss critical habitat within the project limits: Click h	here to ente	r text.				
13.	 Discuss whether any prior reviews or surveys have been completed for historical and archaeological resources (include year, project, results) Click here to enter text. 						
14.	 Are any Recreational, historical properties or resources covered under section 4(f) property within the project limits? Yes □ No □ (Provide details) Click here to enter text. 						
15.	15. Discuss whether any prior reviews or surveys have been completed for sites/facilities which may have potential contamination involvement with the proposed improvements. This should include a discussion of locations which may directly impact the project location, or be which may be exacerbated by the construction of the proposed improvements. Click here to enter text.						

16. Are lighting improvements requested as part of this project?	Yes □	No □
Please provide a lighting justification report for the proposed light	ghting.	
Click here to enter text.		
17. Is a mid-block crossing proposed as part of the project?	Yes □	No □
If yes, please provide the justification for mid-block crossing.		
Click here to enter text.		

Required Attachments

- A. Detailed Project Scope with Project Location Map with sufficient level of detail (Please include typical section of proposed improvements)
- B. Project Photos dated and labeled (this is important!)
- C. Detailed Cost Estimates including Pay Items
- D. LRTP and Local CIP page
- E. Survey/As-builts/ROW documentation/Utility/Drainage information
- F. Detailed breakdown of ROW costs included in estimate (if ROW is needed/included in request or estimate)

Applicant Contact Information

Agency Name:	
Mailing Address: City of Naples, Dept Streets & S	tormwater 295 Riverside Cl
Naples, FL 34102	
Contact Name and Title: Alison Bickett, PE	
Email: abickett@naplesgov.com	Phone: 239-213-5014
Signature: Date	e: 9-15-23
Your signature indicates that the information included with	this application is accurate.
Maintaining Agency:	
Contact Name and Title: FDOT, Victoria Peters, C	ommunity Liaison
Email: victoria.peters@dot.state.fl.us	•
Signature: Date	•
Your signature serves as a commitment from your agency	
MPO/TPO:	
Contact Name and Title: Anne McLaughlin, MPO Di	rector
Email: anne.mclaughlin@colliercountyfl.gov	Phone: 239-252-5884
Signature: Date	:
Your signature confirms the request project is consistent to documents, is eligible, and indicates MPO/TPO support for	with all MPO/TPO plans and

From: Peters, Victoria
To: Anne McLaughlin
Subject: US41 PD&E -some info

Date: Friday, August 25, 2023 4:48:09 PM

Attachments: <u>image001.png</u>

EXTERNAL EMAIL: This email is from an external source. Confirm this is a trusted sender and use extreme caution when opening attachments or clicking links.

Hi Anne! Thank you so much for taking time to catch up with me today. Below is some information regarding the PD&E.

Description: US 41 FROM 3RD AVE TO SR 84 INTERSECTION/MOBILITY IMPROVEMENTS PD&E

Fiscal Year: FY27 Work Mix: PD&E Funds: SU

Ant Cost: \$1,188,222.

Project limits: US41, from 3rd Ave to SR84/Davis Boulevard

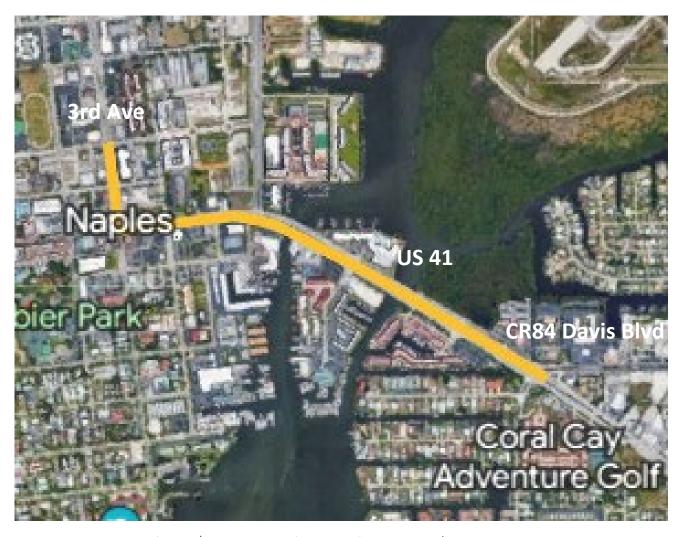
FDOT Managed PD&E

Thank you,

Victoria

Victoria Peters, JD Florida Department of Transportation; D1 (Cell) (863) 272-2368



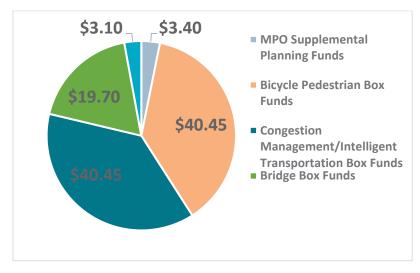


Project Location: US41 from 3rd Ave S to SR 84 (Davis Blvd) Intersection/Mobility Improvements PD&E

Table 6-8. SU Box Funds by Planning Year and Project Phase

		an Period 2 2026-2030			an Period 3 2031-2035			an Period 4 2036-2045		Total Cost 2026- 2045
Allocation Type	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	
MPO Supplemental Planning Funds	\$0.70			\$0.80			\$1.90			\$3.40
Bicycle Pedestrian Box Funds			\$10.17			\$10.13			\$20.15	\$40.45
Congestion Management/Intelligent Transportation Box Funds			\$10.17			\$10.13			\$20.15	\$40.45
Bridge Box Funds			\$4.96			\$4.94			\$9.80	\$19.70
Safety			\$0.80			\$0.80			\$1.50	\$3.10

Figure 6-9. SU Fund Allocation Through 2045





Collier MPO Congestion Management - Project Concept Sheet

A. REQUIRED PROJECT INFORMATION: 1. Name of Project ATMS and Controller Update_ 2. Name of Applicant **Trinity Scott** 3. Name of Submitting Jurisdiction Collier County_ 4. If this is a multi-jurisdictional application, please list the jurisdictions involved Attachment? \overline{X} 5. Describe the project and its purpose, including the project limits (if applicable). The ATMS and traffic signal controllers provide Traffic Management Center (TMC) staff real-time data on the functioning of Intelligent Transportation Systems (ITS) at signalized intersections throughout the County's roadways. The systems regulates and monitors vehicle detection, pedestrian movement, traffic responsive operations, time of day plans, preemption/priority signal treatment for Fire/Rescue, EMS, and Bus traffic, provides Signal Phase and Timing (SPaT) data to vehicle equipped with CV2X (Connected Vehicles to Infrastructure) capabilities. Collier County Traffic Operations continues to adopt ITS innovations on County roadways, to mitigate congestion and enhance safety. (See Map and List Attachment A) 6. Amount of CMC/ITS SU Box funds being requested \$1,622,000 Estimated Total Project Cost \$1,622,000 If SU Box funds are not requested, what funding source would be most appropriate? 7. Are there specific technical and/or monetary local contributions for this project? If yes, please explain. NO√ YES 8. Anticipated time to complete the project *24 months* NO √ 9. Does this project require the acquisition of Right-of-Way? YES 10. Is this project on a congested corridor? Identify the corridor. YES All congested corridors are included within the list of projects, see attached list of corridors. NO V YES

11. Does this project address a documented safety problem? Explain.

12			project address a strategy listed on the ntation matrix?	YES		NO [
13		Does this TS archi	project maintain concurrency with FDOT Regional tecture?	YES		NO	
14			project promote one or more multi-modal solutions by g recommendations from an adopted MPO study? Please identify	YES		NO	
B. PR	RO	JECT S	PECIFIC DESCRIPTION:				
<u>APPL</u>	ΙE	<u>ES</u> . (If 1	TATEMENTS BELOW THAT APPLY TO THE PROJECT <u>WI</u> project is funded, you will be expected to provide data to the blementation for performance measures selected.)				
1	l.	Travel	<u>Demand</u> - Describe how the project addresses one or more of the	e follow	ing Pe	rforma	nce Measures:
		a.	Percent of roadway miles by volume to capacity (V/C) ratio				
		b.	Percent of vehicle miles traveled by volume to capacity (v/c) rat	tio			
		c.	Number of signalized intersections connected to ATMS				
	2.	Transi	t <u>Travel</u> – Describe how the project addresses one or more of the Average bus route service frequency and number of routes	e follow	ing per	forma	nce measures:
			Passenger trips (annual ridership)				
		c.	Passenger trips per revenue hour				
		d.	Transit on time performance				
	3.	Pedes	rian/Bicycle Facilities – Describe how project addresse	es one	or mo	re of	the following
		Perform	nance Measures:				
		a.	Centerline miles of bicycle lanes				
		b.	Linear miles of connector sidewalks on arterial roadways				
		c.	Linear miles of Shared Use paths adjacent to roadways				

4.	Goods	<u>a Movement</u> – Describe how project addresses one or more of the following performance measures:
	a.	Vehicle miles traveled (VMT) on designated truck routes with V/C greater than 1/0
	b.	Number of crashes involving heavy vehicles/trucks
 5.	Safety-	- Describe how project addresses one or more of the following performance measures:
٥.	Barcty	
	a.	Total crashes
	b.	Motor vehicle severe injury crashes
	c.	Motor vehicle fatal crashes
	d.	Pedestrian and bicycle severe injury and fatal crashes
6.	TDM-	Describe how project addresses one or more of the following performance measures:
	a.	Number of people registered in the FDOT Commute Connector database that have an origin in Collier County
7.	Access	sibility – Describe how project addresses one or more of the following performance measures:
	a.	Share of regional jobs within ¼ mile of transit
	b.	Share of regional households within 1/4 mile of transit
8.	Incider	at Duration – Describe how project addresses one or more of the following performance measures:
	a	Mean time for responders to arrive on scene after notification
	a. b	Mean incident clearance time
	b.	
	c.	Road Ranger stops
 9.	Custor	ner Service – Describe how project addresses one or more of the following performance measures:
	a.	Report on nature of comments/responses and customer satisfaction

This project will improve customer service and driver satisfaction in Collier County, by improving the current traffic signal operations and improving service and communications with the field devices.

2020 CMP IMPLEMENTATION MATRIX

	Tiered Congestion Hot Spots & Key
	Intersections (referenced in 2020
2020 TSP Update	TSP BASELINE CONDITION REPORT)
	Tier 1 Congestion Hot Spot &
Immokalee Rd from Livingston Rd to I-75*	Critical Intersection
8	
Immokalee Rd from Logan Rd to CR 951 (Collier Blvd)*	Tier 1 Congestion Hot Spot
CR 951 (Collier Blvd) from Vanderbilt Beach Rd to Immokalee	
Rd	Tier 1 Congestion Hot Spot
CR-862 (Vanderbilt Beach Rd) from Airport-Pulling Rd to	Tier 1 Congestion Hot Spot &
Livingston Rd	Critical Intersection
6	
Pine Ridge from Goodlette Frank Rd to Airport-Pulling Rd	Tier 1 Congestion Hot Spot
Golden Gate Parkway from Santa Barbara Blvd to CR 951	
(Collier Blvd)	Tier 1 Congestion Hot Spot
Immokalee Rd from I-75 to Logan Rd*	Tier 2 Congestion Hot Spot
Immokalee Rd from Goodlette Frank Rd to Livingston Rd*	Tier 2 Congestion Hot Spot
	Tier 2 Congestion Hot Spot &
US 41 from Vanderbilt Beach Rd to Immokalee Rd	Critical Intersection
US 41 from Immokalee Rd to Old US 41	Tier 2 Congestion Hot Spot
CR-862 (Vanderbilt Beach Rd) from Vanderbilt Dr to US 41	Tier 2 Congestion Hot Spot
, , , , , , , , , , , , , , , , , , , ,	1
Airport-Pulling Rd from Pine Ridge Rd to Orange Blossom Dr	Tier 2 Congestion Hot Spot
Pine Ridge Rd from Livingston Rd to I-75**	Tier 2 Congestion Hot Spot
The Mage Na Holli Elvingston Na to 1-73	Tier 2 Congestion Hot Spot &
Golden Gate Pkwy from Livingston Rd to I-75	Critical Intersection
Davis Blvd from US 41 to Airport-Pulling Rd	Tier 2 Congestion Hot Spot
	Tier 3 Congestion Hot Spot &
Airport-Pulling Rd from Golden Gate Pkwy to Radio Rd	Critical Intersection
Santa Barbara Blvd/Logan Blvd at Green Blvd	Critical Intersection



District One Priority Project Information Packet

Please fill out this application completely. Applications containing insufficient information will not be reviewed by the FDOT

information will not be reviewed by the r bor							
Name of Applying Agency: Collier County							
Project Name: ATMS	and Signal Co	ntroller					
Project Category:							
Congestion Manageme	ent 🗵	TRIP		CIGP	•		
Transportation Alternat	ive 🗆	Transit/	Modal □				
Is applicant LAP Cert	ified?		Yes	s 🗵	No □		
Is project on State Hig If the project is off the s programmed as a LAP	state system an			s ⊠ ertified the	No □ e project	will be	
Is the roadway on the If no, give local jurisdic		•	n? Yes	S 🗵	No □		
Detailed Project Limit Describe begin and end or west to east. Include	d points of proje						
This project is for the current and future sig	•	•				•	t
Discuss how this propage Number (attach p	*		/IPO/TPO L	₋ong Ran	nge Tran	sportation Plan?	,
This project is consis (Intelligent Transporta signalized intersectio roadways. See Attach	ation Systems) ns, as well as) in the Traffic	: Managen	nent Cen	ter and a	at all County	
Discuss the project in (Attach page from CIP)	_	sdiction's Ca	pital Impro	ovement	Plan?		
The funding requeste goes out 5 years.	d is for 2030, l	but Collier's (Capital Imp	orovemei	nt Progra	am (CIP) only	
		Project De	escription				
Phase(s) requeste	d:						
Planning Study \square	PD&E □	PE□	ROW [_ C	ST ⊠	CEI □	

Project cost estimates by phase (Please include detailed cost estimate and documentation in back-up information): This project is for the purchase of equipment

Phase (PD&E, ROW, PE, CST)	Estimated Total Cost	Funds Requested	Matching Local Funds	Local Fund Source	Type of Match (Cash, in-kind)
[Phase 98]	\$[1,622,000.00]	\$[1,622,000.00]	\$[0.00]	[N/A]	[N/A]
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]

Total Project Cost: \$ [1,622,000.00]

Project Details: Clearly describe the existing conditions and the proposed project and desired improvements in detail. Please provide studies, documentation, etc., completed to-date to support or justify the proposed improvements. Include labeled photos and maps. (Add additional pages if needed): The ATMS and traffic signal controllers provide Traffic Management Center (TMC) staff real-time data on the functioning of Intelligent Transportation Systems (ITS) at signalized intersections throughout the County's roadways. The systems regulates and monitors vehicle detection, pedestrian movement, traffic responsive operations, time of day plans, preemption/priority signal treatment for Fire/Rescue, EMS, and Bus traffic, provides Signal Phase and Timing (SPaT) data to vehicle equipped with CV2X (Connected Vehicles to Infrastructure) capabilities. Collier County Traffic Operations continues to adopt ITS innovations on County roadways, to mitigate congestion and enhance safety.

Constructability Review

For items 2-9 provide labeled and dated photos (add additional pages if needed)

Stop ID number:

5. Is the project within 5-miles of an airport? Yes \boxtimes No \square

1.	Discus other projects (ex. drainage, utility, etc.) programmed (local, state or federal) within the limits of this project? <i>Not Applicable. This ITS project entails the purchase of traffic signal controllers and installation by staff.</i>
2.	Does the applicant have an adopted ADA transition plan? Yes □ No ☒ Identify areas within the project limits that will require ADA retrofit. (Include GIS coordinates for stops and labeled photos and/or map.) Click here to enter text.
3.	Is there a rail crossing along the project? Yes □ No ⋈ What is the Rail MP? Enter MP
4.	Are there any transit stops/shelters/amenities within the project limits? Yes □ No ☒ How many? Not Applicable. This ITS project entails the purchase of traffic signal controllers and installation by staff.

6.	Coordinate with local transit and discuss improvements needed or requested for bus stops? (add additional pages if needed): This is not applicable, for the project entails the purchase of traffic signal controllers, to be installed by County staff, in our traffic signal cabinets. (See Attachment B).
7.	Are turn lanes being added? Yes \square No \boxtimes If yes, provide traffic counts, length, and location of involved turn lanes. Click here to enter text.
8.	Drainage structures: <i>Item 8 in its entirety is not applicable, for the project entails the purchase of traffic signal controllers, to be installed by County staff, in our traffic signal cabinets.</i> (See Attachment B).
	Number of culverts or pipes currently in place: Click here to enter text.
	 Discuss lengths and locations of each culvert along the roadway: Click here to enter text.
	 Discuss the disposition of each culvert and inlet. Which culverts are "to remain" and which are to be replaced, upgraded, or extended? Click here to enter text.
	 Discuss drainage ditches to be filled in? (Discuss limits and quantify fill in cubic yards) Click here to enter text.
	 Describe the proposed conveyances system (add additional pages if needed.) Click here to enter text.
	\bullet Are there any existing permitted stormwater management facilities/ponds within the project limits? Yes \Box No \boxtimes
	 If yes, provide the location and permit number (add additional pages if needed) Click here to enter text.
	 Discuss proposed stormwater management permits needed for the improvements. Click here to enter text.
	 List specific utilities within project limits and describe any potential conflicts (add additional pages if needed): Click here to enter text.
	Discuss Bridges within project limits? Click here to enter text.
	Can bridges accommodate proposed improvements? Yes □ No ☒

9. Has Right-of-way (ROW), easements, or ROW activity already been performed/ acquired for the proposed improvements? Yes □ No \boxtimes If ROW or Easements are needed detail expected area of need (acreage needed, ownership status): Not Applicable. This ITS project entails the purchase of traffic signal controllers and installation by staff. 10. Discuss required permits (ERP, Drainage, Driveway, Right of Way, etc.): If none are needed, state the qualified exemption: Not Applicable. This ITS project entails the purchase of traffic signal controllers and installation by staff. 11. Are there any wetlands within the project limits? Yes \square No \boxtimes If yes, list the type of wetlands, estimated acreage and if mitigation will be required. Please note whether the project is within the geographic service area of any approved mitigation banks. Provide any additional information: Click here to enter text. 12. Are there any federal or state listed/protected species within the project limits?Yes \square No \boxtimes If yes, list the species and what, if any mitigation or coordination will be necessary: Click here to enter text. If yes, discuss critical habitat within the project limits: Click here to enter text. 13. Discuss whether any prior reviews or surveys have been completed for historical and archaeological resources (include year, project, results) Not Applicable. This ITS project entails the purchase of traffic signal controllers and installation by staff. 14. Are any Recreational, historical properties or resources covered under section 4(f) property within the project limits? Yes \square No \boxtimes (Provide details) Click here to enter text.

If no, what bridge improvements are proposed? (Offset and dimensions of the

Not Applicable. This ITS project entails the purchase of traffic signal controllers

improvements, add additional pages if needed):

and installation by staff.

15.	. Discuss whether any prior reviews or surveys have been completed for
	sites/facilities which may have potential contamination involvement with the
	proposed improvements. This should include a discussion of locations which may
	directly impact the project location, or be which may be exacerbated by the
	construction of the proposed improvements. Not Applicable
16	Ar a lighting improvements requested as part of this project? Vac \(\sim \) No \(\sim \)

16	. Ar e lighting improvements requested as part of this project? Yes \Box No $ar{ ext{D}}$
	Please provide a lighting justification report for the proposed lighting.
	Click here to enter text.

17.	Is a mid-block crossing proposed as part of the project? Yes \square	No	\times
If yes, please provide the justification for mid-block crossing.			
	Click here to enter text.		

Required Attachments

- A. Detailed Project Scope with Project Location Map at sufficient level of detail (Please include typical section of proposed improvements) The project is for the purchase of new traffic signal controllers for all signalized intersections maintained by Collier County, and replace our current controllers which will have reached End-of-Life (EOL), See Attachment A List of Signalized Intersections and Project Location Map.
- B. Project Photos dated and labeled The ATMS and Controllers Update project consists of a purchase of equipment and
 installation done by County Staff at all County maintained signalized intersections, See
 Attachment B -Traffic Signal Cabinet and Controller images.
- C. Detailed Cost Estimates including Pay Items See Attachment C.
- D. LRTP and Local CIP page See Attachment D Pg 6-11, 6-12, 6-15, pg 4-1, 4-2. The funding is requested for 2030 but Collier's Capital Improvement Program only goes out 5 years.
- E. Survey/As-builts/ROW documentation/Utility/Drainage information *Not applicable for this will be a purchase of ITS equipment.*
- F. Detailed breakdown of ROW costs included in estimate (if ROW is needed/included in request or estimate) *Not applicable for this will be a purchase of ITS equipment.*

Applicant Contact Information

Agency Name: Collier County	
Mailing Address: 2885 S Horseshoe Dr, Nag	oles, FL 34104
Contact Name and Title: Trinity Scott, Depa	rtment Head
Email: trinity.scott@colliercountyfl.gov	Phone: (239) 252-5873
Signature: ScottTrinity Digitally signed by ScottTrinity Date: 2023.09.29 13:48:48 Your signature indicates that the information include	Date:
Your signature indicates that the information include	ed with this application is accurate.
Maintaining Agency: Collier County Contact Name and Title: Trinity Scott, Depa	rtment Head
Email: trinity.scott@colliercountyfl.gov	Phone: (239) 252-5873
Signature: ScottTrinity Digitally signed by ScottTrinity Date: 2023.09.29 13:49:02 Your signature serves as a commitment from your a	Date:
Your signature serves as a commitment from your a	agency to maintain the facility requested
MPO/TPO: Contact Name and Title: Anne McLaughlin Email: Anne.McLaughlin@colliercountyfl.gov	Phone: 239-252-5884
Signature:	Date:
Your signature confirms the request project is considered documents, is eligible, and indicates MPO/TPO sup	

COLLIER COUNTY TRAFFIC OPERATIONS TRAFFIC MANAGEMENT CENTER (TMC) ADVANCED TRAFFIC MANAGEMENT SYSTEM (ATMS) AND CONTROLLERS PROJECT SCOPE

PROJECT INFORMATION

A. Introduction

The Collier County "Traffic Management Center" (TMC), has the responsibility to safely, and efficiently manage the flow of vehicle, pedestrian, bicycle and any other form of future multi-modal traffic throughout Collier County. An important tool used by TMC staff is the ATMS and signal controller systems, which run all signalized intersections. Every seven to ten years, this system needs to be replaced, to accommodate new innovations in the field and ensure the County stays current with our long-range plans, towards a smart County.

B. Background

The Traffic Management Center (TMC) is the command center for all Collier County Intelligent Transportation System (ITS) operations. TMC staff manage traffic operations, disseminate traveler information, and provide on-going incident management services to the Florida Department of Transportation (FDOT), other Local Agencies and Municipalities. In 2030, our ATMS and all 222 Traffic Signal Controllers will have exceeded its end-of-life, since they were deployed in 2017 (13 years old). It is therefore the County's intent to replace these systems with new ATMS and Traffic Signal Controllers, that will better serve the County's planned expansion of its Intelligent Transportation System and optimize traffic signal functions, coordination, as well as TMC operations.

C. Existing Conditions

Traffic Signal Controllers

Collier County currently operates and maintains 222 traffic intersections in the county. These controllers are NEMA TS2-1 and TS2-2 based Intelight controllers.

Traffic Management Software

Collier County currently uses Q-Free's MaxView/Kinetic Signal ATMS to command and control all signalized intersections ad interconnected ITS systems, like detection, preemption and CV2X Travel Time devices.

1

D. Traffic Signal Controllers

The County will strive to utilize the latest technology available in 2030, which will offer compatibility with our current infrastructure and that of FDOT and adjacent Local Agencies and Municipalities to which Collier County is connected. At this time, Connected Vehicle (CV2X) and the Internet of Things (IoT) integration is an important requirement. If this continues to be the rigor, the new ATMS and Traffic Signal Controllers, will need to account for this integration. Additionally, the system will need to provide the following features:

- Control and Coordination Features
- Controller Preemption and Transit Signal Priority Features
- Time-Based Features
- Detector Features
- Logging Features
- Additional Features
 - Digital Short-Range Communication (DSRC
 - o Connected Vehicle-to-Infrastructure (V2I / V2X)) interfacing
 - o Any future ITS protocols

E. <u>ATMS Central Control Software Features</u>

The ATMS central control software is an integral part of the traffic operations. The manufacturer or vendor shall provide a new ATMS central control software package, licensing, and supporting ATMS central control software servers or Cloud-based options. The system will need to provide at a minimum, the following features:

- The ATMS central control software shall be capable of supporting any combination of controllers and controller software versions deployed simultaneously in the field.
- The ATMS program needs to be compatible with the County's multi-modal Traffic Count Data System.
- The ATMS will be cloud-based and provide local virtual hosting in the TMC data center, with an appropriate SQL style database.
- Individual client logins shall use secure authentication.
- Access via mobile devices shall be provided.
- The ATMS central control software main interface shall be a graphical user interface and shall consist of a main map.
- ATMS Central Control Software main interface shall contain notifications of active alarms or alerts.
- Logging and Reports
- The ATMS central control software shall be able to produce client customizable reports. At a minimum the following reports should be available:
 - o Device Configuration Reports

- o Schedule Reports
- Signal Changes Reports
- Detector Event Reports
- Split Monitoring Reports
- o System Event Reports
- Upload and compare Reports using a Critical Record Check (CRC) to verify the data is correctly uploaded.
- Detector Volume of Service (VOS) Data Reports should be available including but not limited to the following:
 - Daily
 - Hourly
 - Multi-date hourly
 - Multi-date Daily

The ATMS central control software shall have the ability to provide, display, log, and report a Measure of Effectiveness (MOE).

The operator shall have the ability to define the location of saved or exported system logs files and reports.

The operator shall have the ability to schedule or automated the export of logging and system reports (e.g., Count Data) to multiple file formats including but not limited to Microsoft Excel®, csv, pdf formats.

Controller Interfacing

The ATMS Central Control Software shall have the ability to full interface with the traffic signal controllers running local control software. The ATMS Central Control Software shall fully support all mandatory and optional objects for generic NTCIP 1201/1202 compliant traffic signal controllers.

Features shall include efficient uploading and downloading of the controller database information and the complete set of NTCIP parameters.

When communicating with controller software, the database editor menus and options shall be self-describing. The local traffic signal controller database editor menu structure and parameter/option names shall be configured similar to the corresponding controller software's front panel.

The ATMS should be able to manipulate High-Definition Data from the traffic signals controllers.

The ATMS shall support "live editing" of database whereas the system database editor current table view is refreshed at a minimum of once every 2 seconds with currently active data running in field.

The ATMS shall be able to schedule split time phasing for both coordinated and free operations.

The ATMS shall have ability to name special program days and weeks for intersections. (e.g. Sports event schedules, spring break, holidays, etc.)

The system shall be capable of saving a full database and editing offline, uploading, or downloading the database to/from the field device. Uploaded or downloaded database integrity shall be verified by the ATMS central control software using a Critical Record Check (CRC).

The system shall be capable of copying and pasting programming data from one intersection to another.

The system shall be capable of automatically uploading and comparing local controller databases to archived databases at user configured times.

Main System Map

The ATMS Central Control Software shall contain a main system map. The software shall support a variety of maps such as GIS based maps, Google based maps, Open Streets maps and Bing maps. Other maps may be supported, however, a minimum of three map sources shall be supported.

The client operator shall have the ability to select between having the background reflect map view, aerial view, street view, or a Panorama view (if available).

The main map shall capable up automatically updating imagery and information without requiring user interaction.

The main map shall have the ability to real time display incident and traffic data from traffic data feeds to provide real time status of incidents and traffic conditions.

The client operator shall have the ability to toggle the display of incident and traffic information on or off, and to select which types of traffic information is displayed.

The main map shall display several levels of details based upon the zoom level of the map within each individual client window. Map zoom level shall be controlled by more than one user interactions i.e., mouse wheel scrolling, software interface slider bar, and magnifying glass selection.

It shall be possible to select one or multiple intersections for display in a selected intersection view by clicking on one intersection, or "lassoing" multiple intersections. The user shall be capable of adding or removing single or multiple intersections to the dynamic group without having to reselect all intersections again. All intersections that are selected in this manner shall be visible in the

selected intersection view at the same time.

As the client zooms in on a particular intersection of the map, additional information shall be shown. At a minimum this shall include individual phase status, current operational status, and current pattern, pedestrian and/or overlap indication status.

Clients should be able to toggle or select through a contextual menu device status display such as main street greens, communications status, color coded signal coordination status, signal coordination pattern number (active), preemption status, and time clock/time drift status.

The main map shall alert in the status window and pictorially any intersection where Emergency Vehicle Priority\Preemption is activated. The client operator shall have the ability to toggle the feature on or off.

Selected Intersection Functions, Status, and Views

The client operator shall have the ability to configure and modified the intersection view within the ATMS central control software without the need for separate graphics editor software.

The intersection view background shall be automatically populated with aerials after the intersection/device is located on the main map. Client operators shall also have the ability to add custom static graphics or backgrounds.

Intersection view graphics shall be stored in the system SQL database on the system server.

The ATMS central control software system shall allow a user to save an existing intersection configuration or view as a "template" for new intersections.

The selected intersection view shall display detailed configuration and operational status for the selected intersections. Each item shall be a single icon with a dynamic display. (i.e. Single phase movement status icon displays the Green, Yellow, and Red indications of the configured phase. The views windows at a minimum shall have the ability to show:

- Phase Movement (Left, Right, Through, Left/Right 45-degree angles)
- Pedestrian Movement (Single object displays walk, flashing don't walk, and don't walk)
- Overlap Movement (Left, Right, Through, Left/Right 45degree angles)
- Flashing Yellow Arrow (Flashing Yellow Arrow must flash)
- Protected Permissive Left-Turn (displays green ball and green arrow)

Preempt status (displays preempt states)

Intersection status windows shall have the ability to be enhanced with client defined data, i.e., controller status window shall be able to display phase numbers and with client labels for approaches such as NB, NBLT, WB, etc.

Intersection status windows shall have the ability to display individual detectors on a channel (e.g., 3 detectors coming back to 1 phase).

Intersection status windows shall be client customizable to filter information as defined by the client operator.

The client operator shall have the ability to view the MMU status in the intersection view window.

The client operator shall have the ability to access real time, programmed and historical time space views, and manual and group plan controls from the selected intersection window.

The client operator shall have the ability to set a Pedestrian Button "No Activity" period for 7 to 14 days.

The client operator shall have the ability to view and control video sources associated with an intersection from the selected intersection window.

The client operator shall have the ability to access other devices associated with the intersection such as UPS, CMU, MMU, VIDS, network switches, wireless radios, and ITS equipment.

Time of Day Schedules (TOD)

TOD schedules should be searchable and filterable. Duplicate or conflicting TOD entries shall be highlighted, flagged, or not allowed (input control). The ATMS central control software shall have the ability to grouped TOD schedules at a minimum, by time and event categories.

The ATMS central control software shall have the ability to presented TOD entries in a tabular format for simpler troubleshooting, modification and correction.

TOD schedule edits shall be logged by the ATMS central control software system allowing client operators to review changes. The initial changes and revision history should be archived so that previous version of TOD schedule can be rolled back.

The ATMS central control software shall be capable of scheduling split monitoring reports by Time of Day for multiple pattern changes.

Detection and Counts

The ATMS central control software shall have the ability to map detectors for all 64 user-defined count stations and other count groupings with lane and direction assignment labels.

The ATMS central control software shall have the ability to differentiate individual detectors on a single channel (e.g. 3 detectors coming back to 1 phase).

The ATMS central control software shall have the ability to display count stations and counts independent from intersections and each other.

The ATMS central control software shall have the ability to export count data should be standard formats.

Any counter should be counted independently by the ATMS central control software to a minimum of 64 phases.

The ATMS central control software shall keep count station and counters log files and stored report data separate from the intersection configuration data and from detection logs, etc. The data log files should be capable of being automatically exported to a secondary database storage location.

Intersection Inventory

The ATMS central control software shall have the ability to store, search, filter, and sort inventory from the traffic control system such as type, make, model, serial numbers, firmware and software revisions, service history etc., in the database.

ATMS Central Control Software Communications

At a minimum, the ATMS central control software shall support any combination of the following communications methods:

- Ethernet
- Fiber Optic
- Wireless Ethernet
- Cellular
- Ethernet over Copper
- Serial over IP
- Ethernet over Dialup (PPP)
- Direct Serial

ATMS Central Control Intelligent Transportation System (ITS) Capabilities

At a minimum, the ATMS central control software shall support interfacing of the following ITS technologies:

- Closed Circuit Television (CCTV) Cameras
- Microwave Detectors
- Bluetooth Detectors
- Dynamic Message Signs
- Vehicle Video (VID) Detection

F. Vendor Responsibilities

All existing controller settings and signal timings shall be converted and/or transferred from the current ATMS and controllers by the manufacturer or vendor prior to installation of equipment by the County.

The manufacturer or vendor shall submit a documented description of the intended process and procedure for transferring the current ATMS and controller data to the new equipment for county approval.

The manufacturer or vendor shall submit a quality assurance plan and quality assurance checklist to the county for approval.

The manufacturer or vendor shall verify that all software and equipment has been properly configured prior to installation by the County.

The controller manufacturer or vendor shall provide and document 48 hours of bench controller operational testing, at an agreed location, prior to field installation by the County.

The manufacturer or vendor shall be available 24 hours a day to provide product support and troubleshooting during the installation phase. The manufacturer or vendor shall consider a thirty (30) workday installation phase.

The manufacturer or vendor shall supply and install redundant servers for the ATMS Central Control Software that meet the requirements outlined in the MTRs.

The manufacturer or vendor will be required to populate the provided ATMS Central Control Software with the new traffic signal controllers provided as part of this project and existing traffic signal controllers not replaced during this phase. The selected manufacturer or vendor will be responsible to provide all deliverables with the proper configurations of all equipment and software items listed in the proposal before final acceptance.

Attachment A

The manufacturer or vendor will be required to populate the provided ATMS central control software with all the initial intersection data, maps, graphics, and client information.

G. <u>Training</u>

In addition to the training requirements described in the MTR, the manufacturer or vendor shall provide training and assistance to the county staff outlining the manufacturer's recommended procedures for installing the new controllers.

The manufacturer or vendor shall provide onsite assistance to the County staff during the installation phase until the manufacturer or vendor is confident that the county staff understands the manufacturers recommended installation procedures.

A project training plan for training the TMC staff in the operation of all systems provided shall be provided

H. Testing

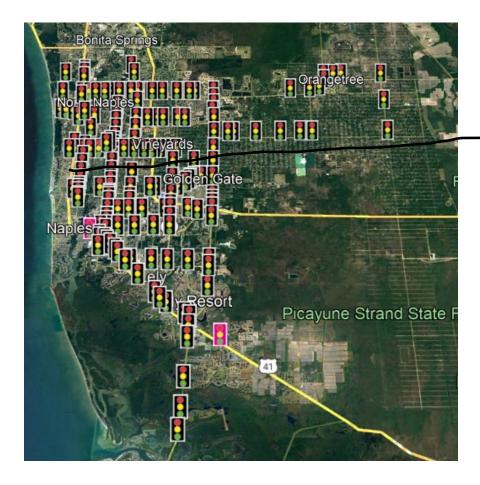
A system engineering test plan shall be provided to ensure that all systems meet their manufacturers' requirements once fully integrated and operational and prior to acceptance by the County. Prior to acceptance by the County all equipment and systems provided must be operational and functioning as required by the County and meet all criteria as set forth in this RFP and the MTRs.

COUNTY MAP – COLLIER COUNTY

The maps below depict the traffic signals under the jurisdiction of Collier County Traffic Operations. Total number of traffic signal controllers will exceed the 222 counts currently in operations by 2030.



Immokalee



<u>Traffic Signals Under the Jurisdiction</u> of Collier County Traffic Operations

Intersection Controller Status Report¬9/19/2023 8:47 AM

	1		
Number	Name	Number	Name
1	Airport @ Carillon/Pine Ridge Crossing	112	Lake Trafford @ 19th
2	Airport @ Clubhouse/Rustic Oaks	113	Livingston @ County Park
2			
3	Airport @ Cougar	114	Livingston @ Enterprise
4	Airport @ Emerald Lakes/Old Grove	115	Livingston @ Grey Oaks Blvd
5	Airport @ Enterprise	116	Livingston @ Learning Lane
6	Airport @ Estey	117	Livingston @ Orange Blossom
7			
/	Airport @ Estuary	118	Livingston @ Osceola
8	Airport @ Pine Woods Cir/Europa Dr	119	Pine Ridge @ Livingston
9	Airport @ Glades	120	Livingston Rd @ Progress Ave / Briarwood Blvd
10	Airport @ Golden Gate Pkwy	121	Livingston Road @ Radio Road
11	Airport @ Grey Oaks Blvd/Poinciana Dr	122	Livingston @ Vanderbilt
12	Airport @ Progress	123	Livingston @ Veterans
13	Immokalee @ Airport	124	Naples @ Hollywood
14	Airport @ JC/Fountainview	125	New Market @ Charlotte
15			
	Airport @ Longboat	126	Oil Well @ Corkscrew (School Signal)
16	Airport @ Mercantile	127	Oil Well @ Everglades
17	Airport @ Naples Blvd	128	Oil Well @ Palmetto (School Signal)
18	Airport @ North	129	Pine Ridge @ FS 40
	Airport @ Orange Blossom		
19		130	Pine Ridge @ FS 46
20	Airport @ Tiburon	131	Pine Ridge @ Forest Lakes/Shirley
21	Airport Rd @ Pelican Marsh ES (School Signal)	132	Pine Ridge @ I-75
22	Pine Ridge @ Airport	133	Pine Ridge @ Osceola ES/Kensignton
23	Airport @ Poinciana Elementary	134	Pine Ridge @ Logan
24	Airport Rd @ Radio Rd	135	Pine Ridge @ Napa
25	Airport @ Vanderbilt	136	Pine Ridge @ Naples
26	Bayshore @ FS 22	137	Pine Ridge @ Pine Ridge Crossing
27	Bayshore @ Lakeview/Plantation (HAWK)	138	Pine Ridge @ PRMS
28	Bayshore @ Weeks (HAWK)	139	Pine Ridge @ Vineyards Blvd
29	Collier @ Business	140	Pine Ridge @ Whippoorwill
30	Collier @ Magnolia/City Gate	141	Pine Ridge @ YMCA/Carillon
31	Collier @ Oakridge/Crystal Lake	142	Poinciana @ FS 24
32	Collier @ Golden Gate Blvd	143	Radio @ Countryside/Devonshire
33	Collier @ Golden Gate Pkwy	144	Radio Rd @ Industrial/Donna
34	Collier @ Grand Lely/Veronawalk	145	Radio @ Madison/Sanctuary
35	Collier @ Green	146	Radio Rd @ San Marcos Blvd
36	Collier @ I-75 N	147	Santa Barabara @ Radio
37	Collier @ I-75 S	148	Rattlesnake @ County barn
38	Immokalee @ Collier	149	Rattlesnake @ Grand Lely/Skyway
39	Collier @ Lely Cultural	150	Rattlesnake @ Hawaii
40		151	
	Collier @ Pine Ridge/White		Rattlesnake @ Santa Barbara/St Andrews
41	Collier @ Rattlesnake	152	Santa Barbara @ Berkshire/Devonshire
42	Collier @ Walmart	153	Santa Barbara @ Calusa (School Signal)
43	Collier @ Tree Farm	154	Santa Barbara @ Coronado
1.0	Collier @ Vanderbilt		Santa Barbara @ E.M.S. Station 75
44		155	
45	Collier @ Wolfe	156	Santa Barbara @ Green
46	Collier @ Capri	157	Santa Barbara @ Prince/Recreation
47	Collier @ FS 23	158	Seagate @ Myra Janco/West
48	Collier @ Mainsail	159	SR 29 @ 1st
49	Collier @ Manatee Rd	160	S.R. 29 @ 9th
50	Davis Blvd @ Airport Rd	161	S.R. 29 @ Farm Worker/Village Oak E.S.
51	Collier @ Davis	162	S.R. 29 @ Immokalee Dr
52	Davis @ County Barn/Glen Eagle	163	SR 29 @ Lake Trafford
53	Davis @ FS 20	164	SR 29 @ New Market/Westclox
54	Davis @ Kings way	165	US 41 @ Creekside Blvd / 107th Ave N
55	Davis @ Lakewood	166	US 41 @ Strada/91st
56	Davis @ Radio	167	US 41 @ 99/Pelican Marsh
			US 41 @ Airport/Peters
57	Davis @ Santa Barbara	168	
58	Davis @ Shadowlawn	169	US 41 @ Lakewood/Highland
59	Everglades @ 18th	170	US 41 @ Barefoot Williams
60	Everglades @ Randall	171	US 41 @ Bayshore/Shadowlawn
61	Golden Gate Blvd @ 13th		US 41 @ Broward
		172	
62	Golden Gate Blvd @ 5th	173	US 41 @ Collier
63	Golden Gate Blvd @ Big Cypress (School Signal)	174	US 41 @ Courthouse/Espinal
64	Golden Gate Blvd @ Everglades	175	US 41 @ Guilford
65	Golden Gate Blvd @ Max Hasse	176	US 41 @ Immokalee Rd / 111th Ave N
66	Golden Gate Blvd @ Wilson	177	US 41 @ Imperial Golf Course Blvd
67	Golden Gate Pkwy @ 44TH	178	US 41 @ Manatee
68	Golden Gate Pkwy @ 50th	179	US 41 @ Old US 41
69	Golden Gate Pkwy @ 53rd	180	US 41 @ Palm Dr
70	Golden Gate Pkwy @ Bears Paw/Estuary	181	US 41 @ Pelican Bay N
71	Golden Gate Pkwy @ Coronado	182	US 41 @ Pelican Bay S
72	Goodlette @ Golden Gate	183	US 41 @ Pine Ridge/Seagate
		184	US 41 @ Price/Triangle
73	Golden Gate Pkwy @ 75 E		
	Golden Gate Pkwy @ 75 W	185	US 41 @ Rattlesnake/Thomasson
74		400	US 41 @ St. Andrews
74	Livingston @ Golden Gate Pkwy	186	
73 74 75 76	Livingston @ Golden Gate Pkwy		
74 75 76	Livingston @ Golden Gate Pkwy Golden Gate Pkwy @ Naples HS/Coastland	187	US 41 @ Southwest
74 75 76 77	Livingston @ Golden Gate Pkwy Golden Gate Pkwy @ Naples HS/Coastland Golden Gate Pkwy @ Santa Barbara	187 188	US 41 @ Southwest US 41 @ SR 29
74 75 76 77 78	Livingston @ Golden Gate Pkwy Golden Gate Pkwy @ Naples HS/Coastland Golden Gate Pkwy @ Santa Barbara Golden Gate Pkwy @ Sunshine	187 188 189	US 41 @ Southwest US 41 @ SR 29 US 41 @ Vanderbilt
74 75 76 77 78	Livingston @ Golden Gate Pkwy Golden Gate Pkwy @ Naples HS/Coastland Golden Gate Pkwy @ Santa Barbara	187 188	US 41 @ Southwest US 41 @ SR 29
74 75 76 77	Livingston @ Golden Gate Pkwy Golden Gate Pkwy @ Naples HS/Coastland Golden Gate Pkwy @ Santa Barbara Golden Gate Pkwy @ Sunshine	187 188 189	US 41 @ Southwest US 41 @ SR 29 US 41 @ Vanderbilt

Attachment A

81	Goodlette @ 22nd	192	Vanderbilt @ Island Walk
82	Goodlette @ Fleischmann	193	Vanderbilt @ Logan
83	Goodlette @ Granada	194	Vanderbilt @ North Pointe
84	Immokalee @ Goodlette	195	Vanderbilt @ Oakes
85	Goodlette @ Ohio	196	Vanderbilt @ Strada
86	Goodlette @ Orange Blossom	197	Vanderbilt @ Vanderbilt Dr
87	Goodlette @ Panther	198	Vanderbilt @ Village Walk/Willshire
88	Goodlette @ Pine Ridge	199	Vanderbilt @ Vineyards
89	Goodlette @ Solana	200	Vanderbilt Dr @ Bluebill Ave / 111th Ave
90	Vanderbilt @ Goodlette	201	Vanderbilt Dr @ Wiggins Pass Rd
91	Goodlette @ Wilderness	202	Veterans @ FS 45
92	Green @ Sunshine	203	Wolfe @ FS 73
93	Immokalee @ Arthrex/Collier Reserve	204	Naples @ Dicks
94	Immokalee @ EMS 10	205	Davis @ Market St
95	Immokalee @ FS 10	206	Collier @ Fiddlers Creek
96	Immokalee @ Gulf Coast HS	207	Livingston @ FS 48
97	Immokalee @ I-75	208	Immokalee @ Charter
98	Immokalee @ Lakeland/The Lane	209	Immokalee @ Quarry/Woodcrest
99	Immokalee @ Laurel Oaks/Preserve	210	Immokalee & FS 42
100	Immokalee @ Livingston	211	SR 29 @ 3rd St
101	Immokalee @ Logan	212	Goodlette @ Creekside/Innovation
102	Immokalee @ Northbrooke	213	US41 @ Treviso
103	Immokalee @ Oil Well	214	Collier @ Founders Square/Pebblebrooke
104	Immokalee @ Orange Tree	215	Vanderbilt @ Groves
105	Immokalee @ Palm River/Parnu	216	Randall @ 8th St
106	Immokalee @ Randall/4th	217	Immokalee @ NCA (School Signal)
107	Immokalee @ Strand	218	Immokalee @ Twin Eagles Blvd
108	Immokalee @ Valewood	219	Veterans @ Veterans HS
109	Immokalee @ Veterans	220	Veterans @ Veterans ES
110	Immokalee @ Wilson	221	US 41 @ Andrew (HAWK)
111	Lake Trafford @ Carson	222	US 41 @ Pelton (HAWK)

Attachment B

Intelight Traffic Signal Controller in Traffic Signal Cabinet



Traffic Signal Cabinet at Signalized Intersection



ATMS Controller Update

ATMS Software and Traffic Signal Controllers Costs Estimates Collier County					
Description	QTY		Cost per Unit		Total Cost
Controller Cost	222	\$	4,000.00	\$	888,000.00
ATMS Software	1	\$	225,000.00	\$	225,000.00
SQL Software	2	\$	15,000.00	\$	30,000.00
CV2X and other Software Applications	222	\$	500.00	\$	111,000.00
Software Application Training	2	\$	2,500.00	\$	5,000.00
ATMS Software Training	2	\$	2,500.00	\$	5,000.00
Accessories and Cables	222	\$	1,000.00	\$	222,000.00
Extended Hardware Warranty	222	\$	500.00	\$	111,000.00
Traffic Count System Integration	1	\$	25,000.00	\$	25,000.00
			TOTAL:	\$	1,622,000.00

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Figure 6-6 presents the total costs by project phase for the SIS cost feasible projects for this 2045 LRTP update. **Figures 6-7** and **6-8** present the total costs by project phase and funding source, respectively, for the FDOT Other Roads and Local Roads cost feasible projects for this 2045 LRTP update.

Figure 6-6. Total Costs by Project Phase SIS Funded Projects 2026–2045 (YOE \$ in millions)

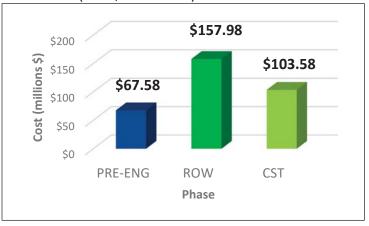


Figure 6-7. Total Costs by Project Phase for FDOT Other Roads and Local Roads Funded Projects 2026–2045 (YOE \$ in millions)

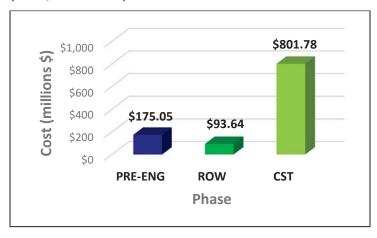
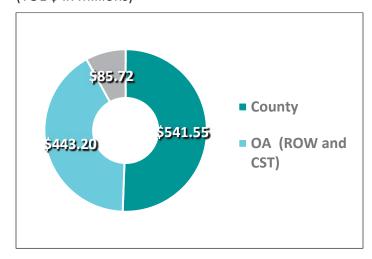


Figure 6-8. Total Costs by Funding Source 2026–2045 (YOE \$\(\frac{1}{2}\) in millions)



Funding of Other Roadway Needs

East of CR 951 Bridges

As noted in Chapter 4, there are 10 proposed canal crossing bridges that are the subject of the 2020 East of CR 951 Bridge Reevaluation Study. A 1-cent infrastructure surtax with specific funding earmarked for constructing these new bridges will be available within the next 7 years. A total of \$19.7 million in TMA (or SU) Funds is dedicated for bridge projects in the 2045 LRTP update:

- Planning Period 2026 to 2030: \$4.96 million for CST
- Planning Period 2031 to 2035: \$4.94 million for CST
- Planning Period 2036 to 2045: \$9.8 million for CST

Congestion Management Projects

Congestion management and ITS projects are generally shortterm and immediate action projects. Therefore, their role in the LRTP process is modest and are more thoroughly addressed in the CMP. The current TIP includes several

Attachment D

improvements to the traffic management center, arterial monitoring cameras, and other traffic equipment improvements that address safety, active roadway management, and bicycle and pedestrian facilities. **Table 6-4** presents congestion management projects funded for construction in the 2021–2025 TIP.

The Collier MPO identified congestion management priorities resulting from the TSPR and the Local Road Safety Plan (Collier MPO 2020e). **Tables 6-5** and **6-6** present infrastructure and non-infrastructure multimodal strategies, respectively, that contribute to the MPO's project selection process.

Table 6-4. Congestion Management Projects Funded in TIP

ITS Projects	Funded Amount	TIP/CIP Year
Bicycle Detection – City of Naples (refer to Figure 4-7 in Chapter 4)	\$66,429	CST 2024/25
ITS Fiber Optic and FPL Power Infrastructure at 13 locations	\$272,725	CST 2024/25
Travel Time Data Collection and Performance Measures	\$700,000	CST 2020/21
New Updated School Flasher System	\$353,250	CST 2024/25
New Vehicle Count Station Update (refer to Figure 4-7 in Chapter 4)	\$311,562	CST 2023/24
New Adaptive Traffic Control System at 13 signalized locations along Santa Barbara Boulevard and Golden Gate Parkway (refer to Figure 4-7 in Chapter 4)	\$893,000	PE 2023/24 CST 2024/25

Source: Collier MPO 2020 Transportation System Performance Report & Action Plan

Future congestion management projects will be prioritized through the MPO's congestion management process. A total of \$40.45 million in TMA (or SU) Funds is dedicated for future congestion management projects in the 2045 LRTP update:

- Planning Period 2026 to 2030: \$10.17 million for CST
- Planning Period 2031 to 2035: \$10.13 million for CST
- Planning Period 2036 to 2045: \$20.15 million for CST

Other Consideration for SU Funds

In addition to congestion management and bridge projects, the MPO allocates its TMA SU funds to planning, bicycle/pedestrian facilities, and safety projects. These five categories are often referred to as "SU Box" funds by the MPO. The Planning SU Box funds are used to supplement the MPO's federal Planning (PL) funds to cover costs associated with updating the LRTP every 5 years. The MPO may also use SU Box funds to update the Bicycle and Pedestrian Master Plan, Transportation System Performance Report, Local Roads Safety Plan (LRSP), freight studies, and other plans and studies that are integral to updating the LRTP.

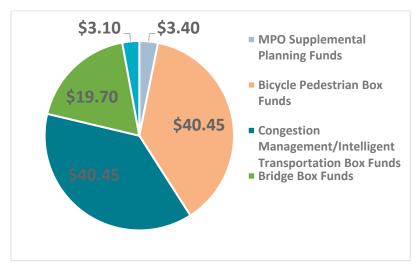
The MPO sets aside SU Box funds allocated to safety projects to implement the LRSP. The LRSP identifies priority projects that include engineering, enforcement, education, and emergency response. Safety projects will be vetted by the Congestion Management Committee, BPAC, TAC, and CAC before going to the MPO Board for adoption. The MPO may also choose to use Safety Box funds to supplement FDOT funding on safety projects that address the MPO's and FDOT's shared Vision Zero Safety Performance Targets. **Table 6-7** presents the presents the SU funds by planning year and project phase. **Figure 6-9** presents a summary of the allocation of SU Funds through 2045.

Attachment D

Table 6-7. SU Box Funds by Planning Year and Project Phase

		Plan Period 2: 2026-2030		Plan Period 3: 2031-2035			Plan Period 4: 2036-2045			Total Cost 2026- 2045
Allocation Type	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	
MPO Supplemental Planning Funds	\$0.70			\$0.80			\$1.90			\$3.40
Bicycle Pedestrian Box Funds			\$10.17			\$10.13			\$20.15	\$40.45
Congestion Management/Intelligent Transportation Box Funds			\$10.17			\$10.13			\$20.15	\$40.45
Bridge Box Funds			\$4.96			\$4.94			\$9.80	\$19.70
Safety			\$0.80			\$0.80			\$1.50	\$3.10

Figure 6-9. SU Fund Allocation Through 2045



Collier MPO Transportation System Performance Report & Action Plan Action Plan



4.0 Congestion Management Strategies

Federal guidance recommends that identification of congestion management strategies be based on their ability to support regional congestion management objectives, meet local context, and contribute to other regional goals and objectives. Strategies that effectively manage congestion and achieve congestion management goals and objectives established in the CMP process are selected to meet Collier County's specific needs. In the 2020 CMP update process, new CMP strategies were identified and added to the existing strategies list based on the analysis that was conducted in the Baseline Conditions Report which identified causes and locations of congested corridors and the Action Plan which analyzed and identified congestion mitigation strategies for the specific corridors. The main additions include safety strategies and strategies to address school related congestion. Table 4-1 lists the category and respective congestion management strategies identified to mitigate congestion along the CMP network in Collier County.

Table 4-1: Collier MPO Congestion Management Strategies

	Improved incident management
	Carpool/Vanpool Assistance and Carpool/Vanpool
	Technology including School Carpooling Apps
	Flexible Work Hours
	Transit Vouchers
	Transit Oriented Development
STRATEGIES: Demand	Jobs/Housing Regional Balance
	Implement Complete Streets Policy All New
Management (Programmatic),	Development
Transportation & Land Use Policy	High-Density & Mixed-Use Fixed Route Corridor
. oney	School Dismissal timing (e.g. stagger dismissal times,
	dismissal automation software)
	Walking, Biking, Transit and School Bus
	Awareness/Education campaigns
	Safe Routes to School & School Zone Traffic Congestion
	Study
	Origin-Destination Study
	Signage and Pavement Markings (e.g. special emphasis
	crosswalks, yield/stop for pedestrian signs, advanced
	street signs)
	Visibility and Sightline Improvements
STRATEGIES: Safety	New and upgraded street lighting
	Traffic control devices (e.g. left turn signals, variable
	message signs, pedestrian hybrid beacons)
	New and Upgrade existing bicycle and pedestrian
	crossings













Collier MPO Transportation System Performance Report & Action Plan Action Plan



	Amenities to Attract New Ridership				
	MPO transit service expansion and improvement (e.g. frequency, hours of operation, realign routes)				
	Regional Transit system Expansion				
CTD4TF01T0 T ':	Bus rapid transit corridor				
STRATEGIES: Transit	Park & Ride facilities				
	Intermodal Hubs				
	Transit ITS and MOD				
	Arrival Prediction Technology				
	Park-and-Ride lots				
	Expanded traffic signal timing & coordination - ITS				
	Traffic Center Operations Enhancements				
	Traffic signal equipment modernization - ITS				
STRATEGIES: ITS & Access	Traveler information devices - ITS				
Management - Active Roadway	Communications networks & roadway surveillance - ITS				
Management	Access management				
	School Zone Traffic Calming Measures				
	School Zone pedestrian and traffic signal optimization				
	School off-site waiting lots and curbing and parking zones				
	Intersection Improvements				
STRATEGIES: Physical	Replace intersections with round-abouts & other innovative designs				
Roadway Capacity	Deceleration lanes and turn lanes				
Enhancement	New grade-separated intersections				
	New travel lanes (general purpose)				
	New roadway network connections				
	New off-street pedestrian and multi-use facilities to close gaps in the transportation network and make connections to key destinations				
	Integrated into TODs, High Density Corridors				
STRATEGIES: Bicycle & Pedestrian Facilities	Regional Bike/Ped Facilities				
r euesti iali ratilities	Complete Streets on New Facilities & Retrofit or new on-street bicycle				
	Supporting bicycle infrastructure (e.g. secure and convenient parking, bike repair and pumps)				













2023 CMP Congestion Management Strategy & Performance Measure Matrix

	Submitting		Funding	Congestion Management	CMP Performance
Project Name	Agency	Description	Request	Strategy	Measure(s)
ATMS and Controller Update	Collier County	ATMS and Controller Update	\$ 1,622,000.000	ITS & Access Management - Active	Report on nature of
				Roadway Management	comments/responses and
					customer satisfaction



Collier MPO Congestion Management - Project Concept Sheet

A. R	EQUIRED PROJECT INFORMATION:						
1.	Name of Project (ITS) Retiming of Arterials_						
2.	Name of Applicant Trinity Scott						
3.	3. Name of Submitting Jurisdiction Collier County						
4.	If this is a multi-jurisdictional application, please list the jurisdictions involved						
5.	Describe the project and its purpose, including the project limits (if applicable	e). Attachi	ment?	$\sqrt{}$			
	The project will consist of retiming 39 signalized intersections on Airport	Road from	n Gold	en Gate			
	Parkway to Pelican Marsh Boulevard/Tiburon Boulevard, on Pine Ridge	Road from	n Good	llette-Frank			
	Road to Logan Boulevard, on Vanderbilt Beach Road from Goodlette-Fra	ank Road	to Islar	nd Walk			
	Boulevard and on Livingston Road from Pine Ridge Road to Vanderbilt	Beach Roa	d, thus	reducing			
	delay and improving traffic progression on these key arterials. The Feder	al Highwa	y Adm	inistration			
	(FHWA) states that Retiming traffic signals every three to five years is ge	nerally co	nsidere	ed to be			
	good engineering practice.						
6.	Amount of CMC/ITS SU Box funds being requested \$663,000.00 Estimated If SU Box funds are not requested, what funding source would be most approximately appr	Total Projec priate?	ct Cost	\$663,000.00			
7.	Are there specific technical and/or monetary local contributions for this project	ct? If yes,	please	explain.			
	YES NO 🗓						
8.	Anticipated time to complete the project <u>24 months</u>						
9.	Does this project require the acquisition of Right-of-Way?	YES		NO V			
10	. Is this project on a congested corridor? Identify the corridor.	YES		NO 🗌			
	The Retiming project will be done on the following corridors:						
	1) *Airport Road - 15 Intersections						
	2) *Pine Ridge Road - 15 Intersections						
	3) *Vanderbilt Beach Road - 7 Intersections						
	4) Livingston Road - 2 Intersections						

TOTAL = 39 Intersections

*includes congested corridor

11. Does this	s project address a documented safety problem? Explain.	YES		NO 🕡	
	s project address a strategy listed on the entation matrix?	YES	V	NO L	
	s project maintain concurrency with FDOT Regional itecture?	YES		NO	
14. Does thi	s project promote one or more multi-modal solutions by	YES		NO V	
advancin	g recommendations from an adopted MPO study? Please iden	tify.			
B. PROJECT S	SPECIFIC DESCRIPTION:				
APPLIES. (If	TATEMENTS BELOW THAT APPLY TO THE PROJECT project is funded, you will be expected to provide data to to plementation for performance measures selected.)				
1. <u>Trave</u>	Demand - Describe how the project addresses one or more of	f the follow	ving Pe	erformance M	easures:
a.	Percent of roadway miles by volume to capacity (V/C) ratio				
b.	Percent of vehicle miles traveled by volume to capacity (v/c)) ratio			
c.	Number of signalized intersections connected to ATMS				
√ 2. Transi	t Travel – Describe how the project addresses one or more of	the follow	ing pe	rformance me	easures:
a.	Average bus route service frequency and number of routes				
b.	Passenger trips (annual ridership)				
c.	Passenger trips per revenue hour				
d.	Transit on time performance				
The project	ct goal is to reduce congestion on the selected corridors, the	rough the	ontim	ization of sig	nal
	us enhancing Transit on time performance.	i vugn the	օհայ	izativii vi sig	шаі

3.		rian/Bicycle Facilities – Describe how project addresses one or more of the following nance Measures:
	b.	Centerline miles of bicycle lanes Linear miles of connector sidewalks on arterial roadways Linear miles of Shared Use paths adjacent to roadways
4.	Goods	<u>Movement</u> – Describe how project addresses one or more of the following performance measures: Vehicle miles traveled (VMT) on designated truck routes with V/C greater than 1/0
		Number of crashes involving heavy vehicles/trucks
 5.	Safety-	- Describe how project addresses one or more of the following performance measures:
	a.	Total crashes
	b.	Motor vehicle severe injury crashes
	c.	Motor vehicle fatal crashes
	d.	Pedestrian and bicycle severe injury and fatal crashes

	6.	<u>TDM</u> -	Describe how project addresses one or more of the following performance measures:
		a.	Number of people registered in the FDOT Commute Connector database that have an origin in Collier County
-			
-			
	7.	Access	sibility – Describe how project addresses one or more of the following performance measures:
		a.	Share of regional jobs within 1/4 mile of transit
		b.	Share of regional households within ¼ mile of transit
		-	
		-	
	8.	Incide	ent Duration – Describe how project addresses one or more of the following performance measures:
		a.	Mean time for responders to arrive on scene after notification
		b.	Mean incident clearance time
		c.	Road Ranger stops
_	9.	Custo	mer Service – Describe how project addresses one or more of the following performance measures:
		a.	Report on nature of comments/responses and customer satisfaction



District One Priority Project Information Packet

Please fill out this application completely. Applications containing insufficient information will not be reviewed by the FDOT

illorillation will not be rev	riewed by	y lile FDOT			
Name of Applying Agency	: Collier	County			
Project Name: (ITS) Retim	ing of Ar	terials			
Project Category:					
Congestion Management	\boxtimes	TRIP □	CIG	P 🗆	
Transportation Alternative		Transit/Mod	al □		
Is applicant LAP Certified	?		Yes ⊠	No □	
Is project on State Highwa If the project is off the state programmed as a LAP proje	system a		Yes □ .AP certified th	No ⊠ ne project will l	be
Is the roadway on the Federal If no, give local jurisdiction:		-	Yes ⊠	No □	
Detailed Project Limits/Local Describe begin and end point north or west to east. Including project map. The project will consist of reacting Parkway to Pelican Mark Goodlette-Frank Road to Local to Island Walk Boulevard and Road, thus reducing delay as County. The work will entail, implementation of timing plant.	nts of prode jurisdictiming 39 rsh Bouled on Living on conduction	stion (city/county), p signalized intersect vard/Tiburon Boulev evard, Vanderbilt Bea gston Road from Pi ving traffic progress	roject length, a ions on Airpor ard, on Pine R ach Road from ne Ridge Road ion on these ke	attach a labele t Road from Go idge Road from Goodlette-Frai to Vanderbilt I ey arterials in C	d olden n nk Road Beach Collier
Discuss how this project i Plan?	s consis	tent with the MPO	TPO Long Ra	nge Transpo	rtation
This project is consistent with of signal timing at 39 Collier from LRTP): See Attachment	County in	ntersections. See At	t achment D . Pa	ige Number (att	
Discuss the project in the (Attach page from CIP): The funding requested is for out 5 years.	-	·	•		ly goes
Phase(s) requested:		Project Description	<u>on</u>		

ROW □ CST □ CEI □

Planning Study □ PD&E □ PE ⊠

Project cost estimates by phase (Please include detailed cost estimate and documentation in back-up information):

			/ =		
Phase (PD&E, ROW, PE, CST)	Estimated Total Cost	Funds Requested	Matching Local Funds	Local Fund Source	Type of Match (Cash, in-kind)
[Phase 38]	\$\$[663,000.00]	\$\$[663,000.00]	\$\$[0.00]	[N/A]	[N/A]
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]
[Phase]	[Number]	[Number]	[Number]	[Fund Source]	[Match Type]

Total Project Cost: \$[663,000.00]

Project Details: Clearly describe the existing conditions and the proposed project and desired improvements in detail. Please provide studies, documentation, etc., completed to-date to support or justify the proposed improvements. Include labeled photos and maps. (Add additional pages if needed):

Collier County roadways should have signalized intersection timing updated at least every five years to progress arterial traffic and minimize delay. This project will consist of traffic signalization timing optimization of five coordinated arterial control sections consisting of a total of 39 traffic signals within the County that have not had a complete signalization timing update in excess of five years. Traffic signalization timing optimization of each coordinated control section will require traffic counts, timing plan development, timing plan implementation, and fine tuning of each coordinated control section. The signalized intersections in each coordinated control section are shown on Attachment A pg 4, and Attachment A pg 5.

Constructability Review

For items 2-9 provide labeled and dated photos (add additional pages if needed)

1.	Discus other projects (ex. drainage, utility, etc.) programmed (local, state or federal) within the limits of this project? <i>Not Applicable.</i>
2.	Does the applicant have an adopted ADA transition plan? Yes \square No \boxtimes Identify areas within the project limits that will require ADA retrofit. (Include GIS coordinates for stops and labeled photos and/or map.) <i>Not Applicable.</i>
3.	Is there a rail crossing along the project? Yes □ No ⊠ What is the Rail MP? Enter MP
4.	Are there any transit stops/shelters/amenities within the project limits? Yes \boxtimes No \square

How many? Airport Corridor-19 CAT Bus Stops | Pine Ridge Rd 12 CAT Bus Stops.

5. Is the project within 5-miles of an airport? Yes \boxtimes No \square

ID number: CAT Bus Routes - R12, R13, R20

	There plann	dditional pages if needed): is currently no transit priority deployed in any of the project corridors. A ed project exists for low-priority transit in 2025. Traffic Operations will work Collier Area Transit (CAT), to address their requirements.
7.	If yes,	rn lanes being added? Yes \square No \boxtimes provide traffic counts, length, and location of involved turn lanes. here to enter text.
		age structures: Number of culverts or pipes currently in place: This is a retiming of intersections only, therefore this is not applicable.
	•	Discuss lengths and locations of each culvert along the roadway: This is a retiming of intersections only, therefore this is not applicable.
	•	Discuss the disposition of each culvert and inlet. Which culverts are "to remain" and which are to be replaced, upgraded, or extended? <i>This is a retiming of intersections only, therefore this is not applicable.</i>
	•	Discuss drainage ditches to be filled in? (Discuss limits and quantify fill in cubic yards) <i>This is a retiming of intersections only, therefore this is not applicable.</i>
	•	Describe the proposed conveyances system (add additional pages if needed.) This is a retiming of intersections only, therefore this is not applicable.
	•	Are there any existing permitted stormwater management facilities/ponds within the project limits? Yes \square No \boxtimes
	•	If yes, provide the location and permit number (add additional pages if needed) Click here to enter text.
	•	Discuss proposed stormwater management permits needed for the improvements. <i>This is a retiming of intersections only, therefore this is not applicable.</i>
	•	List specific utilities within project limits and describe any potential conflicts (add additional pages if needed): <i>This is a retiming of intersections only, therefore this is not applicable.</i>
	•	Discuss Bridges within project limits? <i>This is a retiming of intersections only, therefore this is not applicable.</i>
	•	Can bridges accommodate proposed improvements? Yes \square No \boxtimes

6. Coordinate with local transit and discuss improvements needed or requested for bus

If no, what bridge improvements are proposed? (Offset and dimensions of the improvements, add additional pages if needed):

This is a retiming of intersections only, therefore this is not applicable.

9.	Has Right-of-way (ROW), easements, or ROW activity already been performed/
	acquired for the proposed improvements?
	Yes □ No ⊠
	If ROW or Easements are needed detail expected area of need (acreage needed,
	ownership status): This is a retiming of intersection project therefore no ROW or
	Easement required.
10.	Discuss required permits (ERP, Drainage, Driveway, Right of Way, etc.): No
	permits required, for this a retiming of intersections project.
	If none are needed, state the qualified exemption: Collier County owns the ROW
11.	Are there any wetlands within the project limits? Yes \square No \boxtimes
	If yes, list the type of wetlands, estimated acreage and if mitigation will be
	required. Please note whether the project is within the geographic service area of
	any approved mitigation banks. Provide any additional information:
	Click here to enter text.
12.	Are there any federal or state listed/protected species within the project limits? Yes $\hfill\square$ No \boxtimes
	If yes, list the species and what, if any mitigation or coordination will be
	necessary: Click here to enter text.
	If yes, discuss critical habitat within the project limits: Click here to enter text.
13.	Discuss whether any prior reviews or surveys have been completed for historical and archaeological resources (include year, project, results) This is not relevant, for it is simply a retiming of arterials project.
14.	Are any Recreational, historical properties or resources covered under section 4(f) property within the project limits? Yes \square No \boxtimes (Provide details) Click here to enter text.

- 15. Discuss whether any prior reviews or surveys have been completed for sites/facilities which may have potential contamination involvement with the proposed improvements. This should include a discussion of locations which may directly impact the project location, or be which may be exacerbated by the construction of the proposed improvements. *This is not relevant, for it is simply a retiming of arterials project.*
- 16. A re lighting improvements requested as part of this project? Yes □ No ⊠ Please provide a lighting justification report for the proposed lighting. Click here to enter text.
- 17. Is a mid-block crossing proposed as part of the project? Yes□ No ⊠

 If yes, please provide the justification for mid-block crossing.

 Click here to enter text.

Required Attachments

- A. Detailed Project Scope with Project Location Map at sufficient level of detail (Please include typical section of proposed improvements) **See Attachment A**
- B. Project Photos dated and labeled See Attachment B
- C. Detailed Cost Estimates including Pay Items See Attachment C
- D. LRTP and Local CIP page See Attachment D pg 6-11, 6-12, 6-15 & pg 4-1, 4-2
- E. Survey/As-builts/ROW documentation/Utility/Drainage information Not Applicable
- F. Detailed breakdown of ROW costs included in estimate (if ROW is needed/included in request or estimate) **Not Applicable**

Applicant Contact Information

Agency Name. Comer County
Mailing Address: 2885 S Horseshoe Dr, Naples, FL 34104
Contact Name and Title: Trinity Scott, Department Head
Email: trinity.scott@colliercountyfl.gov Phone: (239) 252-5873
Digitally signed by ScottTrinity Digitally signed by ScottTrinity
Signature: ScottTrinity Digitally signed by ScottTrinity Date: 2023.09.29 13:49:40 Date:
Your signature indicates that the information included with this application is accurate.
Maintaining Agency: Collier County
Contact Name and Title: Trinity Scott, Department Head
Fmail: trinity scott@colliercountyfl.gov Phone: (239) 252-5873
Digitally signed by ScottTrinity
Signature: ScottTrinity Digitally signed by ScottTrinity Date: 2023.09.29 13:50:36 Date: Date:
Your signature serves as a commitment from your agency to maintain the facility requested
Tour dignature convocate a community of y
MPO/TPO:
Contact Name and Title: Anne McLaughlin, Executive Director
Email: Anne.McLaughlin@colliercountyfl.gov Phone: 239-252-5884
Dodge.
Signature: Date:
Signature: Date: Your signature confirms the request project is consistent with all MPO/TPO plans and

ITS RETIMING OF ARTERIALS

Project Scope:

Collier County Traffic Operations has as a goal to contract with a reputable Engineering Firm, who will perform a retiming of 39 intersections across several corridors listed in this document, adhering to the Federal Highway Administration (FHWA) Signal Timing guidelines, which can be located in this link, https://ops.fhwa.dot.gov/publications/fhwahop08024/index.htm#toc.

Purpose - Public Good

Reviewing and performing signalized intersection timing is a critical aspect of traffic management and transportation engineering. The primary purpose of this process is to optimize traffic flow and enhance overall transportation efficiency in urban areas. Here are some key purposes and benefits:

- 1. Traffic Flow Optimization: Signalized intersections are common in urban areas, and they can be a major source of traffic congestion if not properly timed. Reviewing and adjusting signal timings helps to ensure that vehicles move smoothly through intersections, reducing delays and improving traffic flow.
- **2. Reducing Congestion:** By optimizing signal timings, transportation authorities can reduce congestion and improve the overall efficiency of road networks. This leads to shorter travel times, reduced fuel consumption, and lower emissions, which benefits both commuters and the environment.
- **3. Safety Improvement:** Properly timed signalized intersections enhance safety by reducing the likelihood of accidents. This is achieved by minimizing conflicts between vehicles and pedestrians, implementing appropriate phases for left and right turns, and ensuring sufficient clearance time for all movements.
- **4. Pedestrian and Cyclist Considerations:** Signal timing reviews also consider the needs of pedestrians and cyclists. Crosswalk timings and pedestrian signal phases are adjusted to provide safe and convenient crossings, encouraging more sustainable modes of transportation.
- **5. Emergency Vehicle Access:** Signal timing plans often include provisions for emergency vehicles. These vehicles may be given priority treatment, such as the ability to trigger green lights or have a longer green phase to clear intersections quickly.
- 6. Coordination with Traffic Management Systems: Many urban areas have advanced traffic management systems that allow for real-time adjustment of signal timings. Reviewing signal timings ensures that these systems work effectively, responding to changing traffic conditions and incidents.
- 7. **Data-Driven Decision Making:** Traffic engineers use data collected from traffic counts, vehicle detection systems, and other sources to inform signal timing adjustments. This data-driven approach helps in making informed decisions to improve traffic operations.
- **8.** Congestion Pricing and Transit Priority: In some cases, signal timing may be adjusted to accommodate congestion pricing schemes or to prioritize public transportation, such as buses and trams, to encourage their use and reduce car dependency.

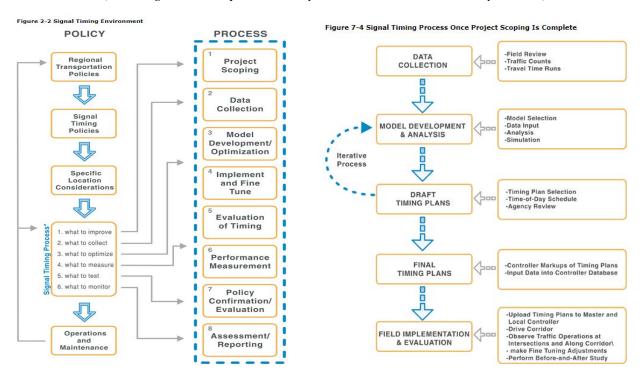
- **9. Synchronization:** In areas with multiple signalized intersections, synchronization of signal timings can create "green waves," where a series of traffic lights are coordinated to allow vehicles to travel through multiple intersections without stopping. This reduces stops and starts, improving fuel efficiency and reducing travel times.
- **10. Adaptation to Growth:** As Collier County grows and changes, the traffic patterns evolve. Regularly reviewing and adjusting signal timings helps accommodate changes in traffic demand, new developments, and shifts in transportation modes.

Summary:

In summary, the purpose of reviewing and performing signalized intersection timing is to enhance traffic flow, safety, and overall transportation efficiency. It involves a combination of data analysis, engineering expertise, and technology to ensure that intersections operate optimally, benefiting both commuters and the environment.

Signal Timing Environment

(The images below depict the Policy and Process recommended by FHWA.)



List of Signalized Intersections

Airport Rd

- 1 Airport Rd @ Golden Gate Pkwy
- 2 Airport Rd @ Estuary Dr
- 3 Airport Rd @ Poinciana Elementary School
- 4 Airport Rd @ Grey Oaks Blvd/Poinciana Dr
- 5 Airport Rd @ Europa Dr/Pinewoods Cir
- 6 Airport Rd @ Clubhouse Dr/Rustic Oaks Cir
- 7 Airport Rd @ Carillon Plaza/Pine Ridge Crossing
- 8 Airport Rd @ Pine Ridge Rd*
- 9 Airport Rd @ Cougar Dr
- 10 Airport Rd @ Naples Blvd/Artesia Ln
- 11 Airport Rd @ J&C Blvd/Fountainview Dr
- 12 Airport Rd @ Orange Blossom Dr
- 13 Airport Rd @ Emerald lakes Blvd/Old Groves Rd
- 14 Airport Rd @ Vanderbilt Beach Rd*
- 15 Airport Rd @ Pelican Marsh Blvd/Tiburon Blvd E

Livingston Rd

- Livingston Rd @ Pine Ridge Rd*
- 1 Livingston Rd @ Osceola Trail/Sabal Ridge Way
- 2 Livingston Rd @ Orange Blossom Dr
 - Livingston Rd @ Vanderbilt Beach Rd*

Pine Ridge Rd

- 1 Pine Ridge Rd @ Logan Blvd
- 2 Pine Ridge Rd @ Vineyards Blvd
- 3 Pine Ridge Rd @ Napa Blvd
- 4 Pine Ridge Rd @ I-75 (West)**
- 5 Pine Ridge Rd @ I-75 (East)**
- 6 Pine Ridge Rd @ Whippoorwill Ln
- 7 Pine Ridge Rd @ Livingston Rd*
- 8 Pine Ridge Rd @ Kensington Park Blvd/Osceola Trail
- 9 Pine Ridge Rd @ Carillon Plaza/YMCA
- 10 Pine Ridge Rd @ Airport Rd*
- 11 Pine Ridge Rd @ Pine Ridge Crossing
- 12 Pine Ridge Rd @Naples Blvd
- 13 Pine Ridge Rd @ Shirley Dr/Forest Lakes Blvd
- 14 Pine Ridge Rd @ Pine Ridge Middle School
- 15 Pine Ridge Rd @ Goodlette-Frank Rd

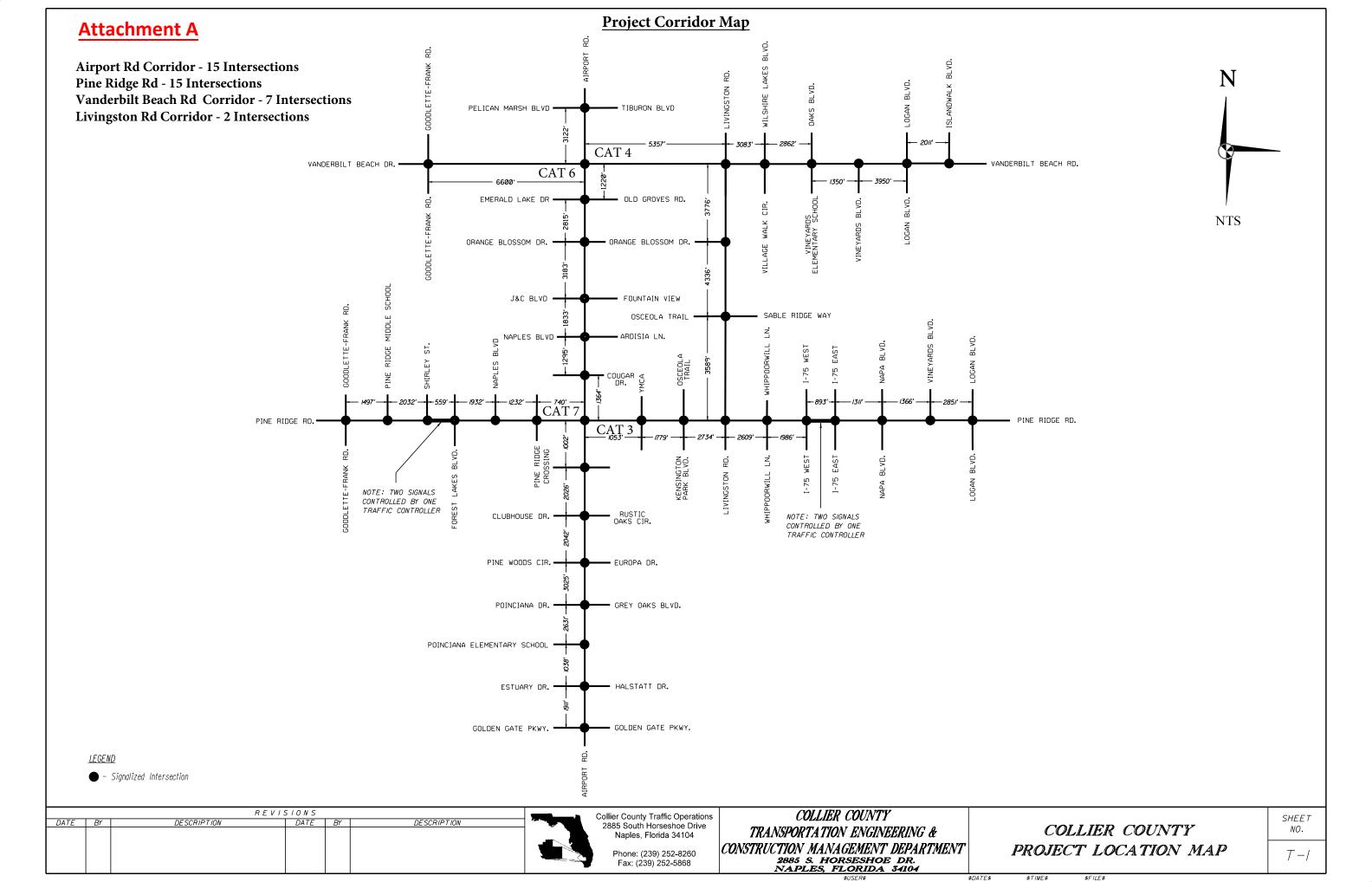
Vanderbilt Beach Rd

- 1 Vanderbilt Beach Rd @ Island Walk Blvd
- 2 Vanderbilt Beach Rd @ Logan Blvd
- 3 Vanderbilt Beach Rd @ Vineyards Blvd
- 4 Vanderbilt Beach Rd @ Oaks Blvd
- 5 Vanderbilt Beach Rd @ Village Walk Dr/ Willshire Lakes Blvd
- 6 Vanderbilt Beach Rd @ Livingston Rd*

- 7 Vanderbilt Beach Rd @ Airport Rd *
- 8 Vanderbilt Beach Rd @ Goodlette Frank Rd

*CONSULTANT shall implement cross coordination where two arterials meet.

**The CONSULTANT shall consider this as two intersections when collecting counts but should note that both intersections are controlled by one controller unit.



All Images were compiled on August 30, 2023

Vanderbilt Beach Rd and Goodlette Frank Rd



Airport Rd & Pelican Marsh Blvd/Tiburon Blvd



Airport Rd & Emerald Lake Dr / Old Groves Rd



Vanderbilt Beach Rd & Livingston Rd



Vanderbilt Beach Rd & Village Walk Cir / Wilshire Lakes Blvd





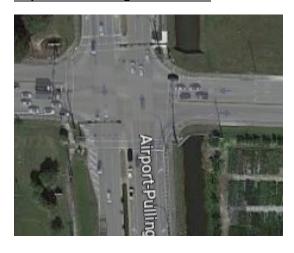
Vanderbilt Beach Rd & Oakes Blvd



Vanderbilt Beach Rd & Logan

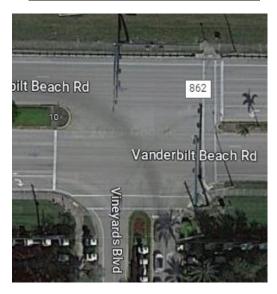


Airport Rd & Orange Blossom Dr



Wednesday, August 30, 2023

Vanderbilt Beach Rd & Vineyards Blvd



Vanderbilt Beach Rd & Island Walk Blvd

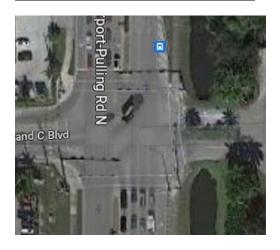


Livingston Rd & Orange Blossom Dr



Page **2** of **7**

Airport Rd & J&C Blvd / Fountain View



Airport Rd & Naples Blvd / Ardesia Ln.



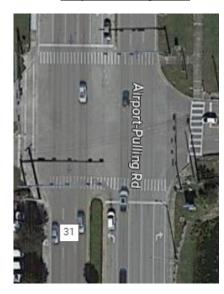
Pine Ridge Rd & Goodland Frank Rd



Livingston Rd & Osceola Trail / Sable Ridge Way



Airport & Cougar Dr.



Pine Ridge Rd & Pine Ridge Middle School



Attachment B

Images of Project Intersections

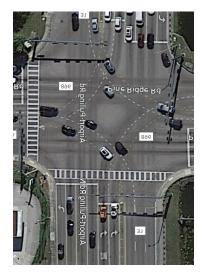
Pine Ridge Rd & Shirley St.



Pine Ridge Rd & Naples Blvd



Airport Rd & Pine Ridge Rd



Wednesday, August 30, 2023

Pine Ridge Rd & Forrest Lakes Blvd



Pine Ridge Rd & Pine Ridge Crossing



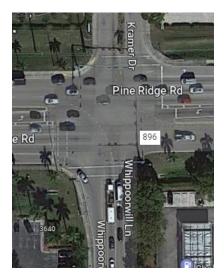
Airport Rd & YMCA



Pine Ridge Rd & Osceola Trl / Kensington Park Blvd



Pine Ridge Rd & Whippoorwill Ln



Pine Ridge Rd & I-75 E



Wednesday, August 30, 2023

Pine Ridge Rd & Livingston Rd



Pine Ridge Rd & I-75 W



Pine Ridge Rd & Napa Blvd



Attachment B

Pine Ridge Rd & Vineyards Blvd



Livingston Rd & Sable Ridge Way / Osceola Trl



Airport Rd & Rustic Oaks Cir



Wednesday, August 30, 2023

Pine Ridge Rd & Logan Blvd



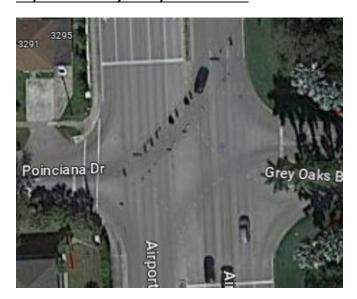
Airport Rd & Pine Ridge Crossing / Carillon Pl



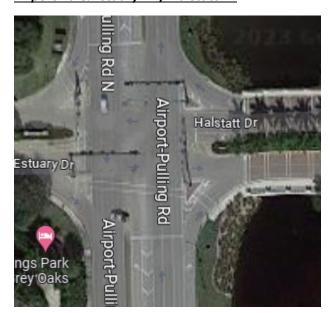
Airport Rd & Europa / Pinewoods Cir



Airport Rd & Grey Oaks / Poinciana Dr



Airport Rd & Estuary Dr / Halstatt Dr



Airport Rd & Poinciana Elementary School



Airport Rd & Golden Gate Pkwy



	COLLIER COUNTY TRAFFIC SIGNAL TIMING AND COORDINATION Estimate 2030 - Staff Hour Estimate by Task									
						Round Trip Travel Time (Hrs)	7.0			
Task	Description	Labor	Units	Unit Type	Task Hours	No. of Trips	Travel Hrs	Total	Fee	Notes
1	Approach Counts (Pine Ridge Rd)	5.50	3	Counts	16.50	6	42.0	58.50	\$ 13,070.17	Seven (7) Days (VHB) (Peak and Off-Peak Season)
2	Turning Movement Counts (Pine Ridge Rd)	161.60	1	Counts	161.60	8	56.0	217.60	\$ 67,473.41	Three (3) Day (VHB) (weekday, Saturday, Sunday) (Peak and Off-Peak Season)
1	Approach Counts (Airport Pulling Rd)	5.50	2	Counts	11.00	6	42.0	53.00	\$ 13,070.17	Seven (7) Days (VHB) (Peak and Off-Peak Season)
2	Turning Movement Counts (Airport Pulling Rd)	141.40	1	Counts	141.40	8	56.0	197.40	\$ 60,784.48	Three (3) Day (VHB) (weekday, Saturday, Sunday) (Peak and Off-Peak Season)
1	Approach Counts (Vanderbilt Beach Rd)	5.50	2	Counts	11.00	6	42.0	53.00	\$ 10,026.93	Seven (7) Days (VHB) (Peak and Off-Peak Season)
2	Turning Movement Counts (Vanderbilt Beach Rd)	90.70	1	Counts	90.70	8	56.0	146.70	\$ 45,682.41	Three (3) Day (VHB) (weekday, Saturday, Sunday) (Peak and Off-Peak Season)
1	Approach Counts (Livingston Rd)	5.50	1	Counts	5.50	6	42.0	47.50	\$ 10,026.93	Seven (7) Days (VHB) (Peak and Off-Peak Season)
2	Turning Movement Counts (Livingston Rd)	20.20	1	Counts	20.20	4	28.0	48.20	\$ 13,669.92	Three (3) Day (VHB) (weekday, Saturday, Sunday) (Peak and Off-Peak Season)
	Field Inventory	2.25	39	Int	87.75	4	28.0	115.75	\$ 20,048.12	0.75 hrs per int for field review * 2 people + 0.5 hrs per int for link node diagram + 0.25 (QC)
3	Operational Review (Peak Season)	8.00	4	Corridors	32.00	2	14.0	46.00	\$ 13,202.96	8 hrs per corridor for operational review (EOR) [peak season weekday only]
	Speed Limit Technical Memorandum	7.00	1	Report	7.00	0	0.0	7.00	\$ 1324.93	6 hrs for report + 0.5 hrs (EOR) + 0.5 hrs (QC)
4	Intersection Analysis	2.00	39	Int	78.00	0	0.0	78.00	\$ 16,316.21	1 hr per int to develop model + 0.5 hrs per int for existing plan development + 0.25 hrs per int (PE) + 0.25 hrs per int (QC)
	Arterial Analysis (Syncrho and Tru-Traffic)	6.00	39	Int	234.00	0	0.0	234.00	\$ 52,621.16	2 seasons * 3 days (weekday, Sat, Sun) * 4 plans = 24 plans * [0.25 hrs per int]
5	TOD Graph	2.75	8	Counts	22.00	0	0.0	22.00	\$ 4,571.89	2 hr per count location + 0.5 per count location (PE) + 0.25 per count location (QC)
	Peak Hour Volume Diagram	0.50	39	Int	19.50	0	0.0	19.50	\$ 4,385.10	0.25 per int + 0.25 (QC)
	Development of Controller Timings (Draft Timing Report)	12.00	4	Corridors	48.00	0	0.0	48.00	\$ 10,783.94	8 hrs per corridor + 2 hrs (PE) + 2 hrs (QC)
6	Clearance Interval Analysis	1.50	39	Int	58.50	0	0.0	58.50	\$ 13,142.92	1 per int + 0.25 (PE) + 0.25 (QC)
	Controller Timing Sheets	1.00	39	Int	39.00	0	0.0	39.00	\$ 9,969.64	0.5 per int + 0.25 (PE) + 0.25 (QC)
	Timing Implementation and Fine Tuning (Pine Ridge Rd)	120.00	2	Seasons	240.00	6	42.0	282.00	\$ 65,528.14	2 people * 4 hrs (program) + 2 people * 11 hrs (3 WD) + 2 * 8 hrs (Sat) + 2 * 8 hrs (Sun) + 10 hrs (County Review) + 1 * 2 hr (Monitoring Period) + 2 hrs (report update)
7	Timing Implementation and Fine Tuning (Airport Pulling Rd)	120.00	2	Seasons	240.00	6	42.0	282.00	\$ 65,528.14	2 people * 4 hrs (program) + 2 people * 11 hrs (3 WD) + 2 * 8 hrs (Sat) + 2 * 8 hrs (Sun) + 10 hrs (County Review) + 1 * 2 hr (Monitoring Period) + 2 hrs (report update)
,	Timing Implementation and Fine Tuning (Vanderbilt Beach Rd)	94.00	2	Seasons	188.00	6	42.0	230.00	\$ 53,834.55	2 people * 2 hrs (program) + 2 people * 11 hrs (2 WD) + 2 * 8 hrs (Sat) + 2 * 8 hrs (Sun) + 10 hrs (County Review) + 1 * 2 hr (Monitoring Period) + 2 hrs (report update)
	Timing Implementation and Fine Tuning (Livingston Rd)	59.00	2	Seasons	118.00	6	42.0	160.00	\$ 36,974.58	2 people * 1 hrs (program) + 2 people * 11 hrs (1 WD) + 2 * 8 hrs (Sat) + 2 * 8 hrs (Sun) + 1 * 2 hr (Monitoring Period) + 1 hrs (report update)
8	Intersection Evaluation	1.75	9	Int	15.75	0	0.0	15.75	\$ 3,678.78	1 hr per intersection + 0.5 (PE) + 0.25 (QC)
0	Report	8.00	4	Corridors	32.00	0	0.0	32.00	\$ 6,693.83	6 hrs update analysis of improvements/report + 1 hr (PE) + 1 hr (QC)
	System Evaluation (Peak)	20.00	4	Corridors	80.00	2	14.0	94.00	\$ 15,296.87	Weekday, 10 hrs before and 10 hrs after
10	System Evaluation (Off-Peak)	20.00	4	Corridors	80.00	2	14.0	94.00	\$ 15,296.87	Weekday, 10 hrs before and 10 hrs after
	Summary	6.00	4	Corridors	24.00	0	0.0	24.00	\$ 5,391.97	4 hrs + 1 hr (PE) + 1 hr (QC)
11	Final Report	11.00	4	Corridors	44.00	0	0.0	44.00	\$ 9,143.77	8 hrs + 2 hr (PE) + 1 hr (QC)
							Sub-total	2747.40	\$ 657,538.79	
Project Management (2 hrs per month for 10 month) 20.00 \$5,461.21									-	
	Total 2767.40 \$663,000.00 Page 1									

Figure 6-6 presents the total costs by project phase for the SIS cost feasible projects for this 2045 LRTP update. **Figures 6-7** and **6-8** present the total costs by project phase and funding source, respectively, for the FDOT Other Roads and Local Roads cost feasible projects for this 2045 LRTP update.

Figure 6-6. Total Costs by Project Phase SIS Funded Projects 2026–2045 (YOE \$ in millions)



Figure 6-7. Total Costs by Project Phase for FDOT Other Roads and Local Roads Funded Projects 2026–2045 (YOE \$ in millions)

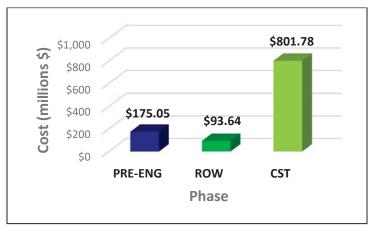
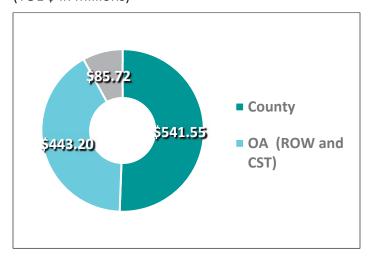


Figure 6-8. Total Costs by Funding Source 2026–2045 (YOE \$\(\) in millions)



Funding of Other Roadway Needs

East of CR 951 Bridges

As noted in Chapter 4, there are 10 proposed canal crossing bridges that are the subject of the 2020 East of CR 951 Bridge Reevaluation Study. A 1-cent infrastructure surtax with specific funding earmarked for constructing these new bridges will be available within the next 7 years. A total of \$19.7 million in TMA (or SU) Funds is dedicated for bridge projects in the 2045 LRTP update:

- Planning Period 2026 to 2030: \$4.96 million for CST
- Planning Period 2031 to 2035: \$4.94 million for CST
- Planning Period 2036 to 2045: \$9.8 million for CST

Congestion Management Projects

Congestion management and ITS projects are generally shortterm and immediate action projects. Therefore, their role in the LRTP process is modest and are more thoroughly addressed in the CMP. The current TIP includes several

Attachment D

improvements to the traffic management center, arterial monitoring cameras, and other traffic equipment improvements that address safety, active roadway management, and bicycle and pedestrian facilities. **Table 6-4** presents congestion management projects funded for construction in the 2021–2025 TIP.

The Collier MPO identified congestion management priorities resulting from the TSPR and the Local Road Safety Plan (Collier MPO 2020e). **Tables 6-5** and **6-6** present infrastructure and non-infrastructure multimodal strategies, respectively, that contribute to the MPO's project selection process.

Table 6-4. Congestion Management Projects Funded in TIP

ITS Projects	Funded Amount	TIP/CIP Year
Bicycle Detection – City of Naples (refer to Figure 4-7 in Chapter 4)	\$66,429	CST 2024/25
ITS Fiber Optic and FPL Power Infrastructure at 13 locations	\$272,725	CST 2024/25
Travel Time Data Collection and Performance Measures	\$700,000	CST 2020/21
New Updated School Flasher System	\$353,250	CST 2024/25
New Vehicle Count Station Update (refer to Figure 4-7 in Chapter 4)	\$311,562	CST 2023/24
New Adaptive Traffic Control System at 13 signalized locations along Santa Barbara Boulevard and Golden Gate Parkway (refer to Figure 4-7 in Chapter 4)	\$893,000	PE 2023/24 CST 2024/25

Source: Collier MPO 2020 Transportation System Performance Report & Action Plan

Future congestion management projects will be prioritized through the MPO's congestion management process. A total of \$40.45 million in TMA (or SU) Funds is dedicated for future congestion management projects in the 2045 LRTP update:

- Planning Period 2026 to 2030: \$10.17 million for CST
- Planning Period 2031 to 2035: \$10.13 million for CST
- Planning Period 2036 to 2045: \$20.15 million for CST

Other Consideration for SU Funds

In addition to congestion management and bridge projects, the MPO allocates its TMA SU funds to planning, bicycle/pedestrian facilities, and safety projects. These five categories are often referred to as "SU Box" funds by the MPO. The Planning SU Box funds are used to supplement the MPO's federal Planning (PL) funds to cover costs associated with updating the LRTP every 5 years. The MPO may also use SU Box funds to update the Bicycle and Pedestrian Master Plan, Transportation System Performance Report, Local Roads Safety Plan (LRSP), freight studies, and other plans and studies that are integral to updating the LRTP.

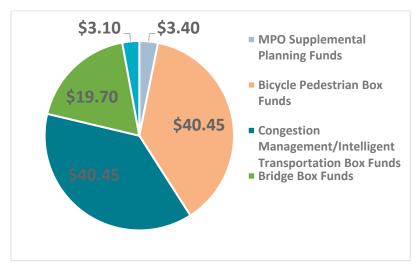
The MPO sets aside SU Box funds allocated to safety projects to implement the LRSP. The LRSP identifies priority projects that include engineering, enforcement, education, and emergency response. Safety projects will be vetted by the Congestion Management Committee, BPAC, TAC, and CAC before going to the MPO Board for adoption. The MPO may also choose to use Safety Box funds to supplement FDOT funding on safety projects that address the MPO's and FDOT's shared Vision Zero Safety Performance Targets. **Table 6-7** presents the presents the SU funds by planning year and project phase. **Figure 6-9** presents a summary of the allocation of SU Funds through 2045.

Attachment D

Table 6-7. SU Box Funds by Planning Year and Project Phase

		Plan Period 2: 2026-2030			Plan Period 3: 2031-2035		Plan Period 4: 2036-2045		Total Cost 2026- 2045	
Allocation Type	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	PRE-ENG	ROW	CST	
MPO Supplemental Planning Funds	\$0.70			\$0.80			\$1.90			\$3.40
Bicycle Pedestrian Box Funds			\$10.17			\$10.13			\$20.15	\$40.45
Congestion Management/Intelligent Transportation Box Funds			\$10.17			\$10.13			\$20.15	\$40.45
Bridge Box Funds			\$4.96			\$4.94			\$9.80	\$19.70
Safety			\$0.80			\$0.80			\$1.50	\$3.10

Figure 6-9. SU Fund Allocation Through 2045



Collier MPO Transportation System Performance Report & Action Plan Action Plan



4.0 Congestion Management Strategies

Federal guidance recommends that identification of congestion management strategies be based on their ability to support regional congestion management objectives, meet local context, and contribute to other regional goals and objectives. Strategies that effectively manage congestion and achieve congestion management goals and objectives established in the CMP process are selected to meet Collier County's specific needs. In the 2020 CMP update process, new CMP strategies were identified and added to the existing strategies list based on the analysis that was conducted in the Baseline Conditions Report which identified causes and locations of congested corridors and the Action Plan which analyzed and identified congestion mitigation strategies for the specific corridors. The main additions include safety strategies and strategies to address school related congestion. Table 4-1 lists the category and respective congestion management strategies identified to mitigate congestion along the CMP network in Collier County.

Table 4-1: Collier MPO Congestion Management Strategies

	Improved incident management
	Carpool/Vanpool Assistance and Carpool/Vanpool
	Technology including School Carpooling Apps
	Flexible Work Hours
	Transit Vouchers
	Transit Oriented Development
	Jobs/Housing Regional Balance
STRATEGIES: Demand	Implement Complete Streets Policy All New
Management (Programmatic),	Development
Transportation & Land Use Policy	High-Density & Mixed-Use Fixed Route Corridor
	School Dismissal timing (e.g. stagger dismissal times,
	dismissal automation software)
	Walking, Biking, Transit and School Bus
	Awareness/Education campaigns
	Safe Routes to School & School Zone Traffic Congestion
	Study
	Origin-Destination Study
	Signage and Pavement Markings (e.g. special emphasis
	crosswalks, yield/stop for pedestrian signs, advanced
	street signs)
	Visibility and Sightline Improvements
STRATEGIES: Safety	New and upgraded street lighting
	Traffic control devices (e.g. left turn signals, variable
	message signs, pedestrian hybrid beacons)
	New and Upgrade existing bicycle and pedestrian
	crossings













Collier MPO Transportation System Performance Report & Action Plan Action Plan



	Amenities to Attract New Ridership			
	MPO transit service expansion and improvement (e.g. frequency, hours of operation, realign routes)			
	Regional Transit system Expansion			
CTD4TF01T0 T ':	Bus rapid transit corridor			
STRATEGIES: Transit	Park & Ride facilities			
	Intermodal Hubs			
	Transit ITS and MOD			
	Arrival Prediction Technology			
	Park-and-Ride lots			
	Expanded traffic signal timing & coordination - ITS			
	Traffic Center Operations Enhancements			
	Traffic signal equipment modernization - ITS			
STRATEGIES: ITS & Access	Traveler information devices - ITS			
Management - Active Roadway	Communications networks & roadway surveillance - ITS			
Management	Access management			
j	School Zone Traffic Calming Measures			
	School Zone pedestrian and traffic signal optimization			
	School off-site waiting lots and curbing and parking zones			
	Intersection Improvements			
STRATEGIES: Physical	Replace intersections with round-abouts & other innovative designs			
Roadway Capacity	Deceleration lanes and turn lanes			
Enhancement	New grade-separated intersections			
	New travel lanes (general purpose)			
	New roadway network connections			
	New off-street pedestrian and multi-use facilities to close gaps in the transportation network and make connections to key destinations			
	Integrated into TODs, High Density Corridors			
STRATEGIES: Bicycle & Pedestrian Facilities	Regional Bike/Ped Facilities			
r euesti iali ratilities	Complete Streets on New Facilities & Retrofit or new on-street bicycle			
	Supporting bicycle infrastructure (e.g. secure and convenient parking, bike repair and pumps)			













2023 CMP Congestion Management Strategy & Performance Measure Matrix

	Submitting		Funding	Congestion Management	CMP Performance
Project Name	Agency	Description	Request	Strategy	Measure(s)
(ITS Retiming of Arterials	Collier County	(ITS Retiming of Arterials	\$ 663,000.00	ITS & Access Management - Active Roadway	Transit On-Time Performance
				Management	

EXECUTIVE SUMMARY DISTRIBUTION ITEMS ITEM 10A

Approved 2024 MPO Meeting Calendar

<u>OBJECTIVE</u>: For the committee to receive a copy of the MPO Board approved 2024 MPO Meeting Calendar.

CONSIDERATIONS: The MPO Board approved the 2024 MPO Meeting Calendar (**Attachment 1**) at its September 8, 2023, meeting.

The 2024 meeting schedule for the Congestion Management Committees is as follows:

- January 17, 2024
- March 20, 2024
- May 15, 2024
- July 17, 2024
- September 18, 2024
- November 20, 2024

COMMITTEE RECOMMENDATIONS: N/A.

STAFF RECOMMENDATION: N/A.

Prepared By: Sean Kingston, AICP, PMP, Principal Planner

ATTACHMENT(S):

1. MPO Board Approved 2024 MPO Meeting Calendar



2024 Meeting Schedule

Collier Metropolitan Planning Organization (MPO) 2885 S. Horseshoe Drive, Naples, FL 34104 (239) 252-5814 | www.CollierMPO.org

Approved September 8, 2023

RED STRIKETHROUGH = CANCELLED MEETING

DATES IN GREEN = ADDED MEETING

Metropolitan Planning Organization (MPO) – Monthly at 9:30 a.m.

MPO Board Meetings are held on the second Friday of the month at the Board of County Commissioners Chambers, Admin. Bldg. F, 3299 Tamiami Trail East, Naples, FL, 34112, unless otherwise noted.

February 9, 2024	March 8, 2024	April 12, 2024	May 10, 2024	
June 14, 2024	September 13, 2024	October 11, 2024	November 8, 2024	
December 13, 2024				
*TENTATIVE JOINT MEETING with Lee County MPO, TBD.				

Technical Advisory Committee (TAC) – Monthly at 9:30 a.m.

TAC Meetings are held on the fourth Monday of the month at the County Transportation Management Services Bldg., Main Conference Room, 2885 South Horseshoe Drive, Naples, FL, 34104, unless otherwise noted.

Conference Room,	2885 South Horseshoe Dri	ve, napies, FL, 34104, uniess oth	ierwise notea.		
January 22, 2024	February 26, 2024	March 25, 2024	April 22, 2024		
May 20, 2024 (due to holiday)	August 26, 2024	September 23, 2024	October 28, 2024		
November 25, 2024					
* TENTATIVE JOINT MEETING with Lee County TAC. TBD.					

Citizens Advisory Committee (CAC) – Monthly at 2:00 p.m.

CAC Meetings are held on the fourth Monday of the month at the County Transportation Management Services Bldg., Main Conference Room, 2885 South Horseshoe Drive, Naples, FL, 34104, unless otherwise noted.

Conference Room, 2885 South Horseshoe Drive, Naples, FL, 34104, unless otherwise noted.						
January 22, 2024	February 26, 2024	March 25, 2024	April 22, 2024			
May 20, 2024 (due to holiday)	August 26, 2024	September 23, 2024	October 28, 2024			
November 25, 2024						
* TENTATIVE IOINT MEETING with Lee County CAC TRD						

Bicycle/Pedestrian Advisory Committee (BPAC) – Monthly at 9:00 a.m.

BPAC Meetings are held on the third Tuesday of the month at the Collier County Government Center, Admin. Bldg. F, IT Training Room. 5th Floor. 3299 Tamiami Trail East. Naples. 34112. unless otherwise noted.

Training Roc	om, sui Fioor, szee rannami fra	iii East, Napies, 34112, uniess oth	erwise notea.		
January 16, 2024	February 20, 2024	March 19, 2024	April 16, 2024		
May 21, 2024	August 20, 2024	September 17, 2024	October 15, 2024		
November 19, 2024					
* TENTATIVE JOINT MEETING with Lee County BPCC, TBD.					

Congestion Management Committee (CMC) – Bi-Monthly at 2:00 p.m.

CMC Meetings are held on the third Wednesday of every other month at the Collier County Transportation Management Services Bldg., South Conference Room, 2885 South Horseshoe Drive, Naples, FL, 34104, unless otherwise noted.

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January 17, 2024	March 20, 2024	May 15, 2024	July 17, 2024
September 18, 2024	November 20, 2024		

Local Coordinating Board (LCB) for the Transportation Disadvantaged – Quarterly at 1:30 p.m. LCB Meetings are held quarterly on the first Wednesday of the corresponding month at the Collier County Government Center, Admin. Bldg. F, IT Training Room, 5th Floor, 3299 Tamiami Trail East, Naples, 34112, unless otherwise noted.

		<u> </u>	<u> </u>
March 6, 2024	May 1, 2024	September 4, 2024	December 4, 2024