

- February 17, 2022 -

Agenda

- Procurement Overview Aneth Williams, Director of Procurement
- Supplier Diversity Program Iranetta Dennis, Director of Supplier Diversity
- Engineering Dana Chester, Manager of Engineering
- Transportation Technology Overview Bryan Homayouni, Director of ITS
- Construction Oversight Jack Burch, Resident Engineer/Construction Manager
- CFX Design Guidelines Update Jamison Edwards, Project Manager



Procurement Overview

Aneth Williams – Director of Procurement



Procurement Overview



Procurement Objectives

It is the mission of CFXs Procurement Department to promote public confidence in procedures the agency follows to procure goods and services.



Roadway & Bridge Construction

02 Fac

Facilities & Operations



Design Professional Services



Commodities & Contractual Services



Procurement E-Registration

endorRegistry[®]

- Access to vendor registration to complete company a profile for your business
- Enroll to receive solicitations and invitations to bids
- Account Management to update company information

And much more.....

RIDA OKITY Commension		
gistration		
Welcome to the Central Florida Express	way Authority Vendor Registratio	n System
Central Florida Expressway Authority is pleased to offer a	I free, online vendor registration system, powere	d by Vendor Registry.
Begin your registration by entering the information below	and clicking "Get Started."	
Already have a Vendor Registry Profile? Log in to complete	ete your registration with Central Florida Express	way Authority.
		CCO Margani, Lou Arm, Konty
		WEW Mith Speaky many of a low minimum
TITLE -Select-	:	600
	2	Have any questions? I'm happy to help.
FIRST NAME *		
First Name		
LAST NAME *		
Last Name		
COMPANY NAME *		
Company Name		
DBA (DOING BUSINESS AS)		
Doing Business As		
EMAIL ADDRESS *		Write a message
Email Address		

Central Florida Expressway Authority is pleased to offer a free, online vendor registration system, powered by <u>Vendor Registry</u>. <u>https://www.cfxway.com</u>



Solicitations & Public Records

The CFX Procurement Policy identifies three methods to procure goods and services.



Competitive Sealed Bids



Competitive Sealed Proposals



Selection of Design Professional Consultants

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jister your	business with us to be on our vendor list. Th	nis ensure	es that you	are set up a	and ready	to bid w	nen the opportunity an	se
GISTER MY I	BUSINESS							
					Dri	nt Reculte		
		Ĭ.		i	-	nt Results		
Туре	Description	Status	ID#	Deadline	Pri Pre-Bid Meeting	nt Results Docs		
Type Sealed	Description CEI SERVICES FOR SR 417 WIDENING BOGGY CREEK	Status Open	LOI	2/9/2021	Pre-Bid			
		a subserved a	2	Personality	Pre-Bid			
Sealed	CEI SERVICES FOR SR 417 WIDENING BOGGY CREEK	a subserved a	LOI	2/9/2021	Pre-Bid			
Sealed Solicitation	CEI SERVICES FOR SR 417 WIDENING BOGGY CREEK TO NARCOOSSEE; PROJECT NO. 417-151	Open	LOI 001750	2/9/2021 1:30 PM	Pre-Bid	Docs		
Sealed Solicitation Sealed	CEI SERVICES FOR SR 417 WIDENING BOGGY CREEK TO NARCOOSSEE; PROJECT NO. 417-151 DESIGN SERVICES FOR SR 528 WIDENING FROM	Open	LOI 001750 LOI	2/9/2021 1:30 PM 1/4/2021	Pre-Bid	Docs		



Questions?



Aneth Williams

CFX Director of Procurement Aneth.Williams@cfxway.com



Supplier Diversity Program

Iranetta Dennis - Director of Supplier Diversity



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Who Participates



D/M/WBE Program

Firms certified by:

- City of Orlando
- Orange County
- FDOT



SSBE Program

Companies are registered with CFX as a SSBE firm



DBE Program

Firms certified by Florida Unified Certification Program

> CENTRAL Florida

CFX FY20&21 D/M/WBE Contract Award

Fiscal Year	Total Award Amount	Total Minority Award Amount	Percentage of Utilization
2020	\$240,918,991.64	\$42,242,460.15	18%
2021	\$508,255,186.12	\$78,509,170.31	15%



Business Diversity Management System





Online Small Sustainable Business Enterprise Directory (SSBE)

AUTHORITY		
0	nline Registration	
Welcome!		Need Help?
Please login or create an account to apply for registr	stration, and/or provide annual updates and renewal	 Download.tbs.user minual
information to us. If you have questions about reg or call (407) 690-5000.	stration, please contact SupplierDiversity@CFXWay.com	 Sign up for a Training Class
You may already have an account due to working is always best to Lookup Account to ensure you an	relationships with other agencies. Therefore, prior to create not currently in the system.	iting a new account, it
	New Registration	
You	r firm is not currently registered.	
	Create Account	
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2	Renew Your Registration	
	now My Username & Password	
	Login	
15	orgot My Username & Password	
	Lookup Account	
	ed to the application form. You can also click the Apply for chnical assistance while completing the application, pleas	



Apply for SSBE Registration



Renew Your Registration





Online Small Sustainable Business Enterprise Directory (SSBE)

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Sma	Il Sustainable Business Enterpri	se Registration Directo	ry
below. Search results may be downloaded to Exc	terprise Directory by entering the search oriens and cick at, by clicking the "Download Results in Excel" button after	r your starch results are displayed. To di	
Note: The Central Florida Expression A	oil to the bottom of the page and click the "Download Ent Notherity (CFR) does not certify Small Sustainable Bus In certification stated within the table and final searc	Aness Enterprises. CFX only registers o	omponies as participants in the df program.
Search by Certification Type	,		
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Search by Business Name or	r DBA		
BUSINESS NAME/DBA	Tig: Try just a few letters of the firm's name.		
Search by Business Descript	lion		
BUSINESS DESCRIPTION	Tip: Try just a few letters of a keyword.		
Search by Commodity Code			
COMMODITY CODES	Click to Lookup Commodity Codes		
Search by Contact Person			
CONTINCT PERSON/CWINER	Fest Name	Last Name	
	Tap: Use the first letter.	Tip: Try the Snyt few lett	05
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- Search Criteria Types
- Ø Certification
- Ø Business Name or DBA
- **Ø** Business Description
- **Ø** Commodity Code
- Ø Contact Person
- Ø Location



Questions?



Iranetta Dennis CFX Director of Supplier Diversity Iranetta.Dennis@cfxway.com



Dana Chester, P.E. - Manager of Engineering

1100



Upcoming Design Projects - Engineering



Design Team Requirements

Prime Firm Requirements:

- Prime executes at least 55% of the contract
- Utilize D/M/WBE Firms
 - 0 12 Points on Letters of Interest (LOI) scoring

Key Local Resources:

- Prime Project Manager
- Roadway Lead
- Drainage/Permitting Lead

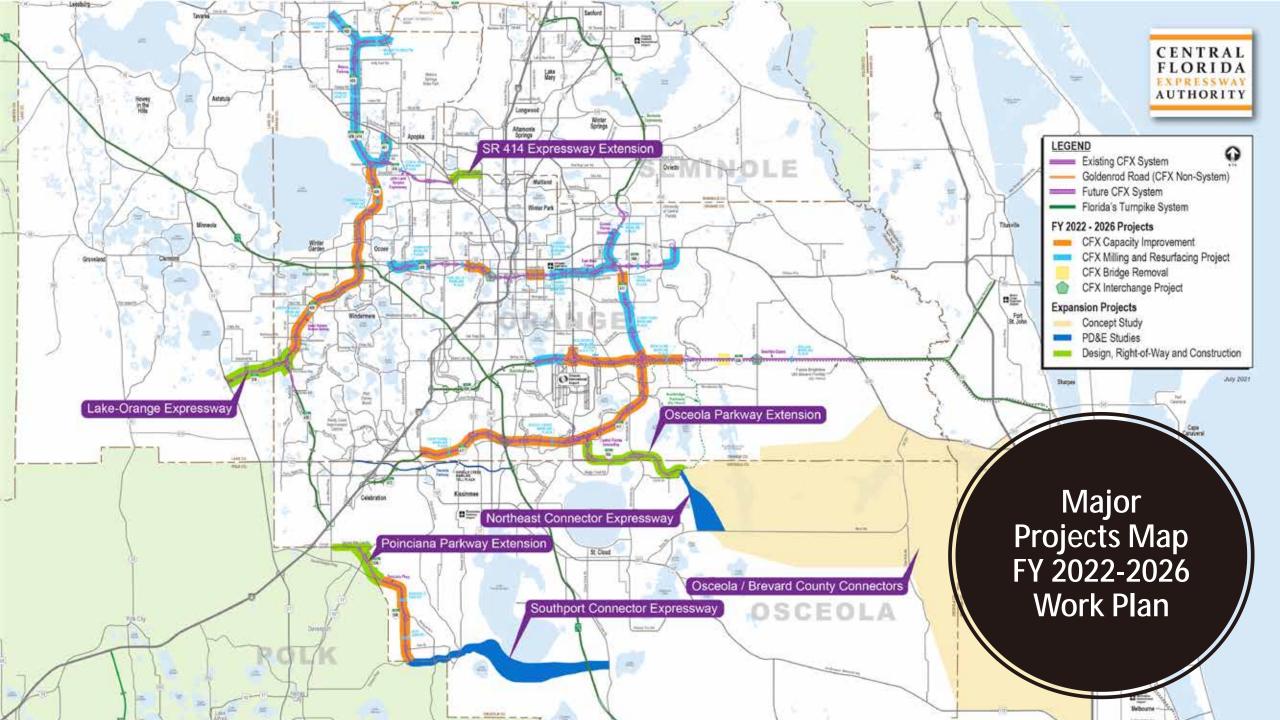




FY 2022-2026 Work Plan

Project Cost Summary (\$000's)	Fiscal Year					
Category	2021/22	2022/23	2023/24	2024/25	2025/26	Totals
Existing System Improvements	358,209	453,058	289,189	147,654	94,371	1,342,481
System Expansion Projects	90,555	223,941	361,448	352,251	410,989	1,439,184
Interchange Projects	3,937	9,790	39,698	82,064	14,348	149,837
Facilities Projects	15,496	13,365	7,612	9,480	5,382	51,335
Transportation Technology Projects	10,138	7,800	3,410	1,497	3,258	26,103
Information Technology Projects	49,855	11,241	2,707	2,180	2,180	68,163
Signing and Pavement Markings	9,438	11,794	1,981	4,086	2,376	29,675
Renewal and Replacement Projects	39,480	23,824	16,099	8,658	15,604	103,665
Landscape Projects	80	1,463	1,418	109	1,478	4,548
Non-System Projects	19	348	0	140	1,884	2,391
TOTALS	577,207	756,624	723,562	608,119	551,870	3,217,382

CENTRAL FLORIDA EXPRESSWAY AUTHORITY



Upcoming Design Projects

SR 534 (4 projects)

 Osceola Parkway Extension Segments 1, 3, 2, and 1A (SR 417 to Narcoossee Road)

SR 414 Expressway Extension

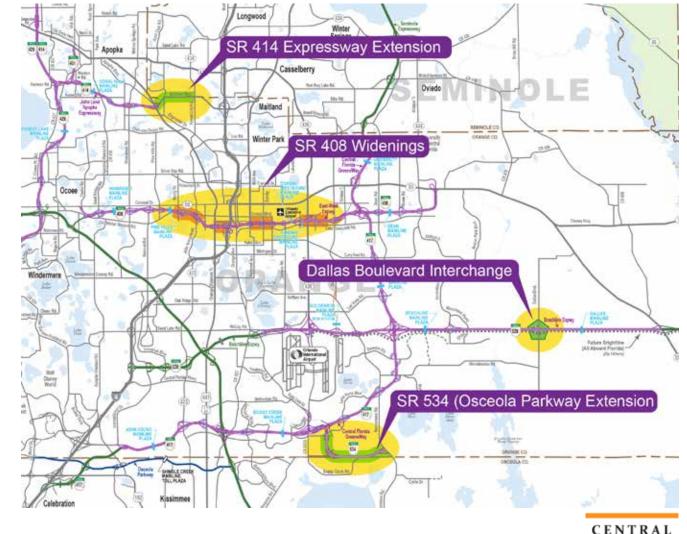
• US 441 to SR 434

SR 408 Widenings (3 Projects)

- Orange Blossom Trail to I-4 (EB)
- SR 436 to Goldenrod Rd/Mills Ave to Bumby Ave (WB)
- Pine Hills Plaza to Church Street (EB)

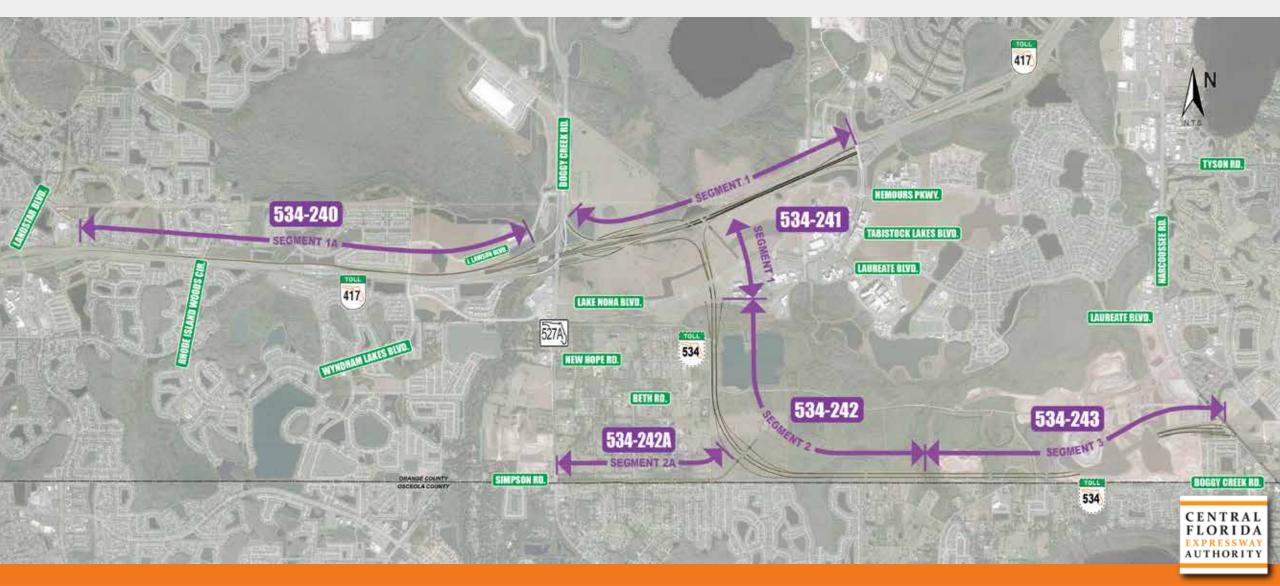
SR 528 Dallas Bvld Interchange

 New Interchange and Improvements to Dallas Boulevard



Calendar year quarters (dates subject to change)

SR 534 (Total of 5 Segments) SR 417 to Narcoossee Road



SR 534 – Segment 1 SR 417 to Laureate Boulevard

Project No. 534-241

• New Systems Expressway

Advertisement

• March 20th, 2022

Design Fee Estimate

• \$12 Million





SR 534 – Segment 3 East of Jim Branch Creek to Narcoossee Road

Project No. 534-243

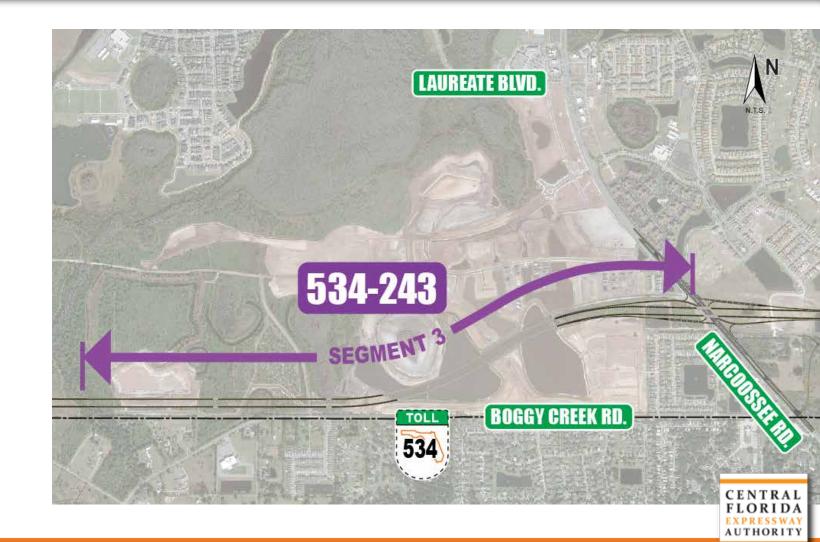
- 2.2 Miles
- New Expressway

Advertisement

• 2nd Quarter 2022

Design Fee Estimate

• \$10 Million



SR 534 – Segment 2 Laureate Boulevard to East of Jim Branch Creek

Project No. 534-240

- 2.2 Miles
- New Expressway

Advertisement

- 3rd Quarter 2022
- Design Fee Estimate
 - \$6 Million



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SR 534 – Segment 1A SR 417 SB Ramp Extension

Project No. 534-240

- 3.1 Miles
- New Ramp By-Pass

Advertisement

• 4th Quarter 2022

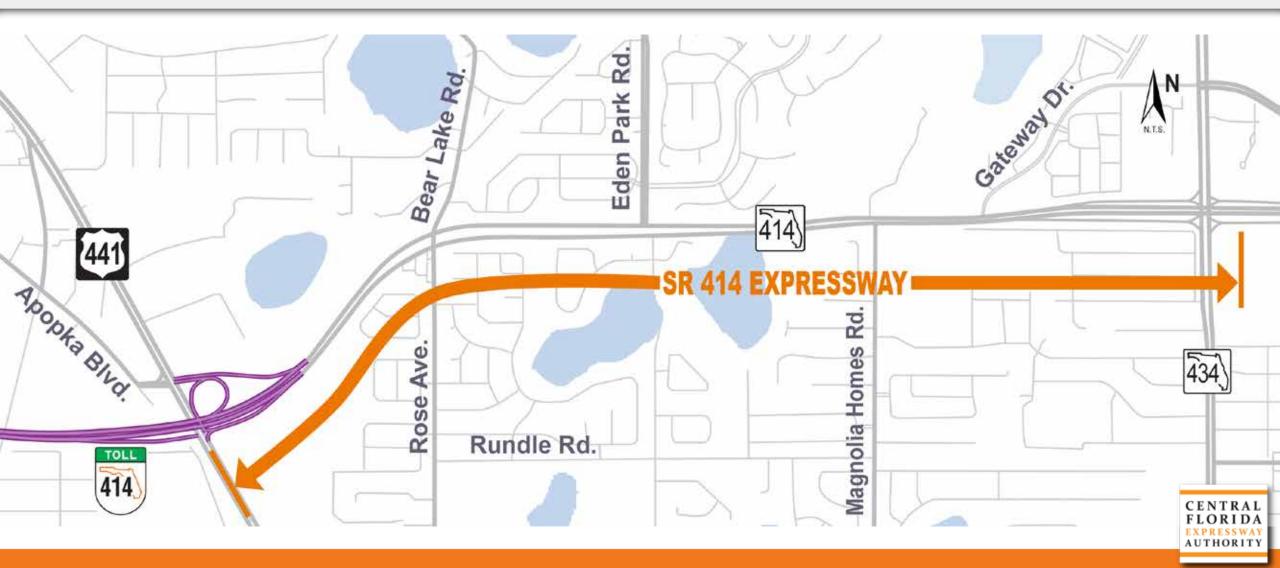
Design Fee Estimate

• \$5 Million





SR 414 Expressway US 441 to SR 434



SR 414 Expressway US 441 to SR 434

PD&E Final Draft

• Public Hearing in 2nd Quarter

Advertisement

• 3rd Quarter 2022

Design Fee Estimate

• \$20 Million

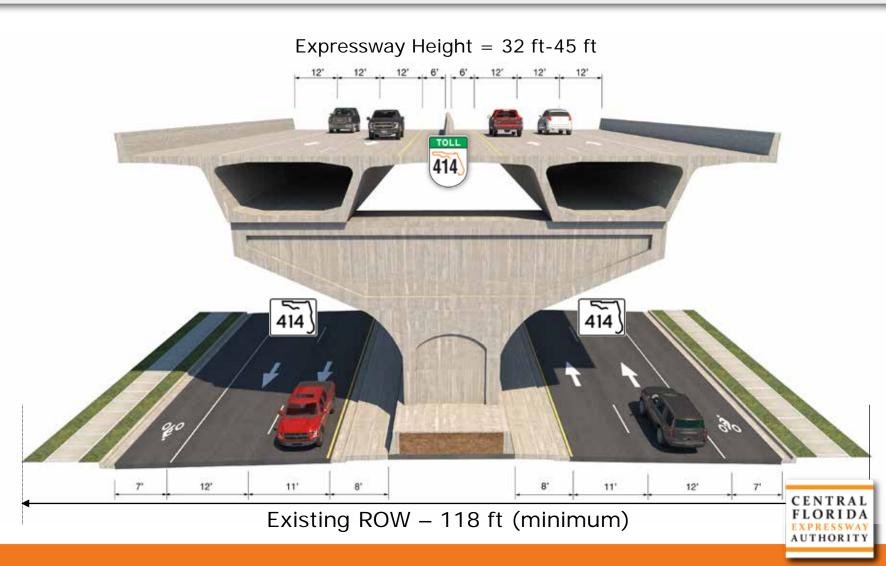




SR 414 Expressway US 441 to SR 434

Typical Section

- PD&E Recommended Alternative
- Segmental Bridge
- Four 12' Lanes w/ 12' Shoulders



SR 408 Widenings (3 Projects)





SR 408 EB 4th Lane Addition - Project 1 OBT (US 441) to I-4 EB

Project No. 408-315 A New Project

• EB Direction Only

Advertisement

• March 13th, 2022

Design Fee Estimate

• \$3 Million





SR 408 Widening – Project 2 *Mills Avenue to Goldenrod Road WB*

Planning Phase Now

• WB Direction Only

Advertisement

• 2nd Quarter 2022

Design Fee Estimate

• \$3 Million

hornton Ave. Brown Ave 0 Lake Crystal Lake Underhill Rd. 408 South St SR 408 WIDENING 408 Anderson St. SR 408 WIDENING ake Underhill Rd 436/S Mill CENTRAL

Calendar year quarters (dates subject to change)

FLORIDA EXPRESSWAY AUTHORITY

SR 408 Widening – Project 3 *West of Pine Hills Plaza to East of Church Street EB*

Planning Phase Now

- EB Direction Only
- 4th Through Lane

Advertisement

• 3rd Quarter 2022

Design Fee Estimate

• \$3 Million



AUTHORITY

SR 528 & Dallas Boulevard Interchange East of Econ River Bridge to East of Dallas Boulevard

Advertisement

• 4th Quarter 2022

Design Fee Estimate

• \$4 Million





Get Started

- Read the Current Work Plan
- Pick your Projects
- Pick your Team
- Be flexible
- Check the Monthly Board Report for upcoming projects

The following items are for information only and are <u>subject to change</u>:

- 3. The following is a list of anticipated advertisements (3-4 month look ahead)
 - 1. 408-128A: SR 408 Dynamic Messaging Signs and ITS Improvements
 - 2. 408-167: SR 408 Lighting Replacements (LAMS System) from I-4 to SR 417 Construction
 - 3. 408-315A: SR 408 East Bound Widening between US 441 and I-4 Design
 - 4. 408-430: CFX HQ 2nd Floor Renovations
 - 5. 417-760: SR 417 Resurfacing between SR 528 and Curry Ford Road Construction
 - 6. 429-427: Independence Mainline Photovoltaics Deployment Design/Build
 - 7. 451-767: SR 451 Resurfacing Construction
 - 8. 528/SR 436 Interchange Landscape



Questions?



Dana Chester, P.E. CFX Manager of Engineering Dana.Chester@cfxway.com



Transportation Technology Overview

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EXIT 128

Bryan Homayouni, P.E. - Director of ITS

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Transportation Technology and Sustainability



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- Maintain and Expand Existing ITS Infrastructure
- Sustainability Study
- Summary of Current Work Plan
- ITS Master Plan



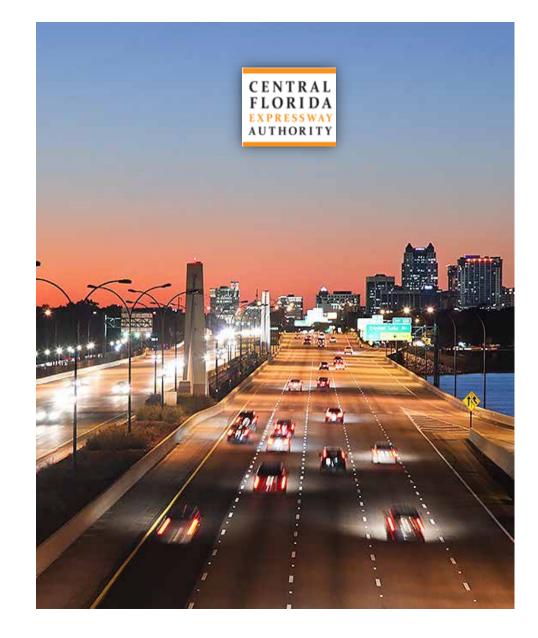
Current ITS Assets

- 283 CCTV Cameras
- 189 Data Collection Sensors (DCS)
- 445 Traffic Monitoring Stations (TMS)
- 50 Three Line Dynamic Message Signs (DMS)
- 52 Toll Plaza Dynamic Message Signs (DMS)
- 27 Arterial Dynamic Message Signs (DMS)
- 2 Toll Booth Dynamic Message Signs (DMS)
- 63 Wrong Way Driving (WWD) Detection Stations
- Over 500 miles of Fiber Optic Cable



ITS Design Details

- Current 10th Edition
 - Updated February 2022 ITS Design Details
 - Includes Part Time Shoulder Use (PTSU)
 - Includes Wrong Way Driving System



Sustainability Study

- Board Approved April 2019
- Key Elements
 - Deployment of Photovoltaic (PV) Power Solutions
 - Improved Energy Efficiencies at CFX Buildings
 - Readiness for Vehicle Electrification



Central Florida Expressway Authority SUSTAINABILITY STUDY June 24, 2019



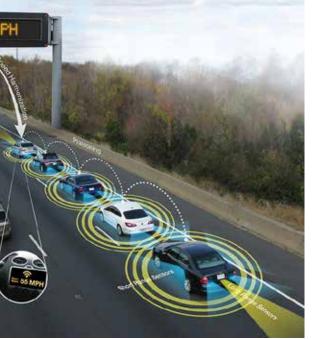
https://www.cfxway.com/wp-content/uploads/2019/11/CFX_Sustainability_Report-FINAL.pdf

Sustainability Projects FY 2022-2026 Work Plan

- Five Solar Deployment (PV) Projects (Facilities Projects Summary Page)
- Includes Solar Deployment Projects at Eight Toll Plaza Facilities
- Total capital investment estimated at \$10.3M
- Total estimated lifetime benefit of +/- \$25.0M









Transportation Technology FY 2022-2026 Work Plan

- Construction
 - DMS Replacement Project
- Design & Construction
 - Wrong Way Driving Deployment Project
 - Connected Vehicle Projects
- Implementation & Installation
 - Lifecycle Equipment Replacements
 - Advanced Expressway Operations Performance Measures
 - Fiber Installation



Questions?



Bryan Homayouni, P.E. CFX Director of ITS Bryan.Homayouni@CFXway.com





Construction Overview

Jack Burch, PE – Resident Engineer/ Construction Manager



CEI Team Qualifications

Major Types of Work:

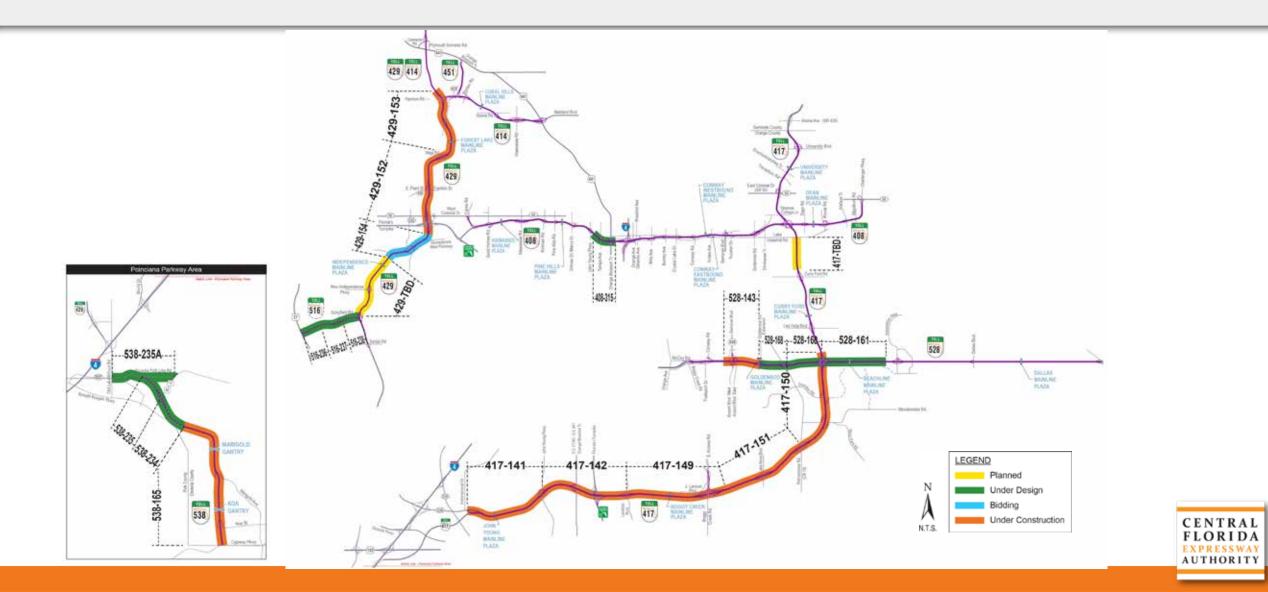
- 10.1 Roadway Construction
- 10.3 Construction Materials Inspection
- 10.4 Minor Bridge and Miscellaneous Structures
- 10.5 Major Bridge (scope dependent)

Additional Services:

- VT Lab Testing, Asphalt Plant Inspection
- Commercial Inspection
- Dynamic Testing Engineer



Status of Major Projects



SR 408 Tampa Avenue Interchange Tampa Avenue to Orange Blossom Trail

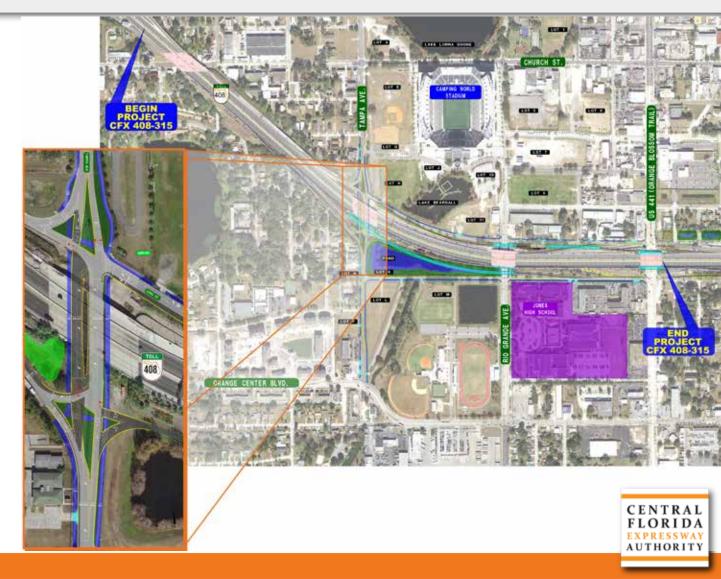
Project (408-315)

Advertisement:

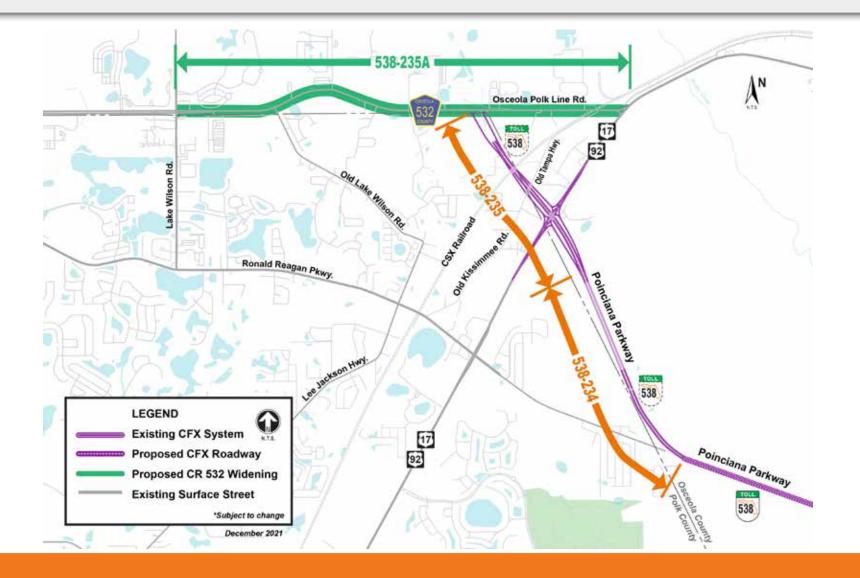
• 4th Quarter 2022

\$68M Construction cost estimate

- Multiple new / widened bridges
- Add a 4th lane eastbound from JYP to OBT
- New and reconstructed ramps
- 3 AET ramp toll gantries



SR 538 Poinciana Parkway Extension CR 532 to Ronald Reagan Parkway





SR 538 Poinciana Parkway Extension South of US 17/92 to Ronald Reagan Parkway

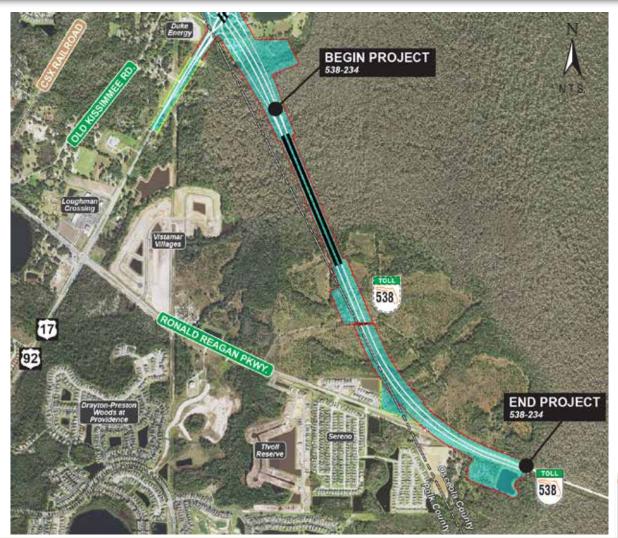
Project (538-234)

Advertisement:

• 4th Quarter 2022

\$88M Construction cost estimate

- New Expressway
- 4 Bridges
- Reedy Creek Mitigation Bank





SR 538 Poinciana Parkway Extension CR 532 to South of US 17/92

Project (538-235)

Advertisement:

• 4th Quarter 2022

\$60M Construction cost estimate

- New Expressway
- 9 Bridges
- Utility Relocations
- CSX Railroad
- FDOT (US 17/92 Interchange)
- Toll Gantries



CR 532 Widening Lake Wilson Road to US 17/92

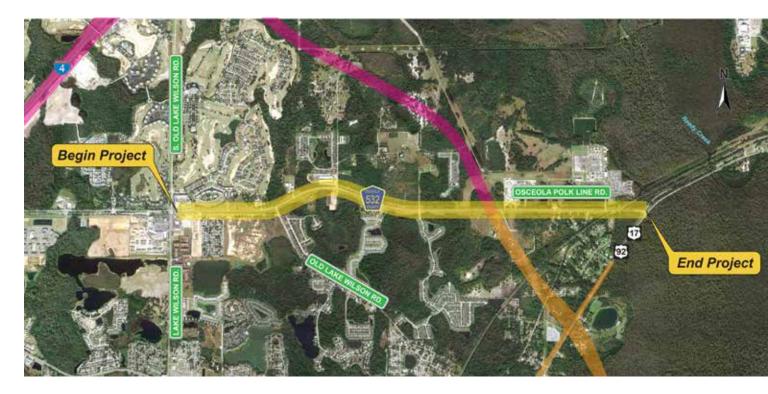
Project (538-235A)

Advertisement:

• 4th Quarter 2022

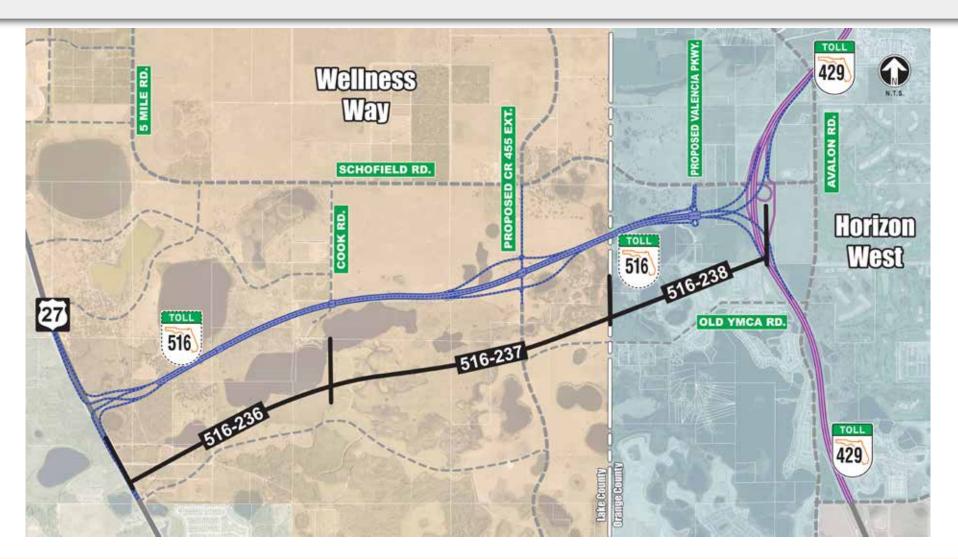
\$32M Construction cost estimate

- 2 lane to 4 lane divided (2.9 mi.)
- Partnership with Osceola Co.
- 10' Trail & 5' Sidewalk
- CSX Railroad at-grade crossing





SR 516 Lake/Orange Expressway US 27 to SR 429





SR 516 Lake/Orange Expressway US 27 to Cook Road

Project (516-236)

Advertisement:

- 4th Quarter 2022
- \$77M Construction cost estimate
 - New Expressway (1.2 mi.)
 - US 27 Re-Construction (1.4 mi.)
 - Free-Flow Interchange at US 27
 - 8 New Bridges (Including trail along SR 516)
 - 14' Wide Trail along SR 516 & US 27
 - In-Road EV Charging Pilot



SR 516 Lake/Orange Expressway Cook Road to Lake/Orange County Line

Project (516-237)

Advertisement:

• 4th Quarter 2022

\$88M Construction cost estimate

- New Expressway (1.9 mi.)
- CR 455 Interchange
- 4 New Bridges
- 2 New Ramp Toll Sites
- 14' Wide Trail along SR 516 & CR 455



SR 516 Lake/Orange Expressway Lake/Orange County Line to SR 429

Project (516-238)

Advertisement:

• 4th Quarter 2022

\$92M Construction cost estimate

- New Expressway (0.6 mi.)
- Valencia Parkway Interchange (Roundabouts)
- SR 429 Systems Interchange & Widening
- 5 New & 4 Widened Bridges
- 6 New AET Ramp Toll Sites
- 14' Wide Trail along Valencia Parkway



1 – Year Look Ahead CEI Advertisements

Project #	Description	Work Plan Cost Estimate	Anticipated CEI Advertisement*
408-315	SR 408 Tampa Avenue Interchange	\$68 Million	4 th Quarter 2022
538-234	SR 538 Extension South of US 17/92 to Ronald Reagan Parkway	\$88 Million	4 th Quarter 2022
538-235	SR 538 Extension South of CR 532 to South of US 17/92	\$60 Million	4 th Quarter 2022
538-235A	CR 532 Widening Lake Wilson Road to US 17/92	\$32 Million	3 rd Quarter 2022
516-236	SR 516 US 27 to Cook Road	\$77 Million	4 th Quarter 2022
516-237	SR 516 Cook Road to Lake/Orange County Line	\$88 Million	4 th Quarter 2022
516-238	SR 516 Lake/Orange County Line to SR 429	\$92 Million	4 th Quarter 2022

*Quarters are "Calendar" Quarters and subject to change.



1 – Year Look Ahead Construction Advertisements

Project #	Description	Work Plan Cost Estimate
528-160	SR 528 Widening from Narcoossee Road to SR 417	Advertised
417-760	SR 417 Resurfacing from 528 to North of Berry Dease Road	\$14 Million
451-767	SR 451 Resurfacing from SR 414 to US 441	\$4.7 Million
528-757	SR 528 Farm Access Road 1 Bridge Removal	\$6.7 Million
408-167	SR 408 Lighting (LAMS)	\$2.6 Million
599-646	Systemwide Guide Sign & Lighting Replacement	\$5.4 Million
599-416C	CFX East District Facility Renovation	\$2.7 Million
538-235A	CR 532 Widening Lake Wilson Road to US 17/92	\$32 Million



Questions?



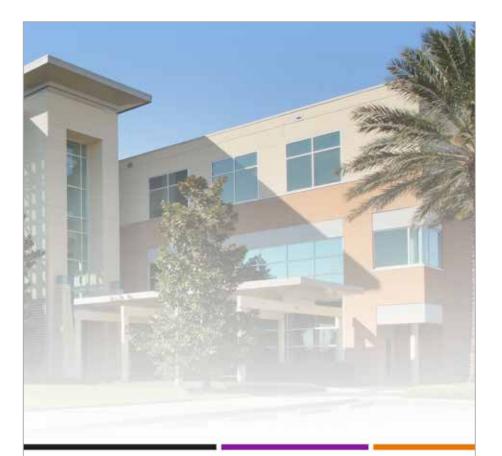
Jack Burch, PE CFX Resident Engineer/Construction Manager Jack.Burch@cfxway.com



CFX Design Guidelines

- Current 2nd Edition
 - Published March 2021
 - Adopts 2021 FDOT Design Manual (FDM)
 - CFX PD&E Study Documentation Guidance added to website
- Updated Annually
 - 3rd Edition February 2022 Release (Adopts 2022 FDM)



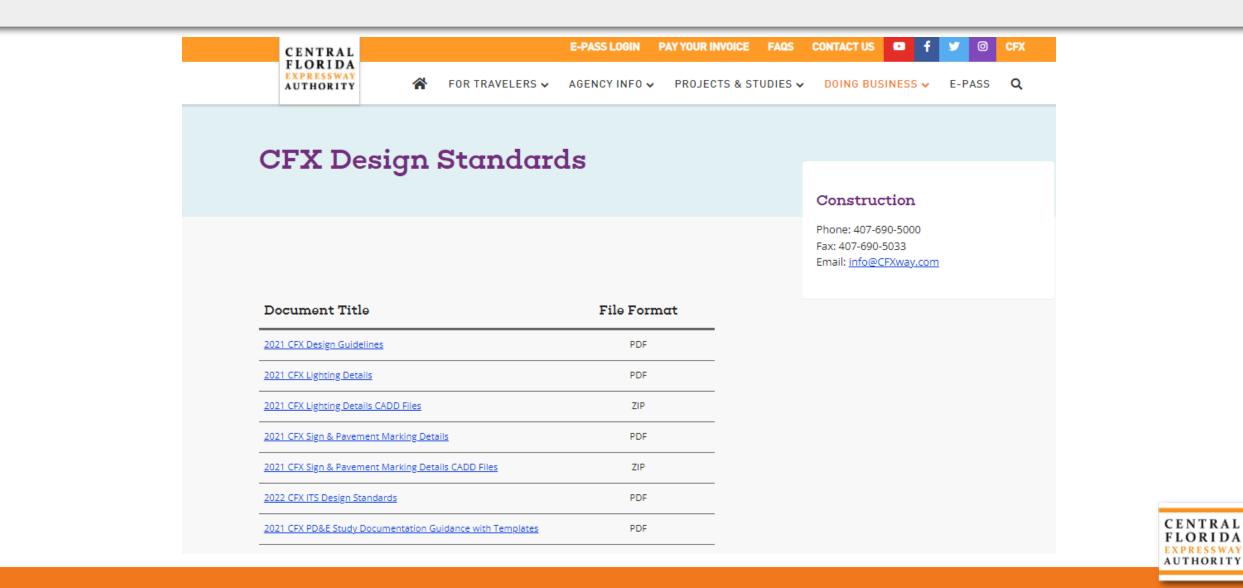


Design Guidelines

Central Florida Expressway Authority



CFX Design Guidelines



Questions?



Jamison Edwards, PE CFX Engineering Project Manager Jamison.Edwards@cfxway.com



