CFX Industry Forum
2019/2020 Design, Expansion & CEI Projects
Will Hawthorne, PE, Director of Engineering
Jack Burch, PE, Resident Engineer/Construction Manager
Central Florida Expressway Authority
— July 16, 2019—
## FY 2020-2024 Work Plan

### Project Cost Summary ($000's)

<table>
<thead>
<tr>
<th>Category</th>
<th>19/20</th>
<th>20/21</th>
<th>21/22</th>
<th>22/23</th>
<th>23/24</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Existing System Improvements</td>
<td>91,304</td>
<td>271,842</td>
<td>480,534</td>
<td>279,212</td>
<td>43,552</td>
<td>1,166,444</td>
</tr>
<tr>
<td>System Expansion Projects</td>
<td>21,165</td>
<td>35,534</td>
<td>122,447</td>
<td>337,349</td>
<td>321,542</td>
<td>838,037</td>
</tr>
<tr>
<td>Interchange Projects</td>
<td>91,501</td>
<td>9,235</td>
<td>3,362</td>
<td>13,494</td>
<td>43,912</td>
<td>161,504</td>
</tr>
<tr>
<td>Facilities Projects</td>
<td>1,047</td>
<td>6,638</td>
<td>18,775</td>
<td>2,695</td>
<td>2,282</td>
<td>31,437</td>
</tr>
<tr>
<td>Transportation Technology Projects</td>
<td>13,457</td>
<td>8,445</td>
<td>4,383</td>
<td>3,794</td>
<td>7,507</td>
<td>37,586</td>
</tr>
<tr>
<td>Information Technology Projects</td>
<td>33,000</td>
<td>14,083</td>
<td>8,251</td>
<td>1,200</td>
<td>1,200</td>
<td>57,734</td>
</tr>
<tr>
<td>Signing and Pavement Markings</td>
<td>3,244</td>
<td>13,735</td>
<td>766</td>
<td>180</td>
<td>180</td>
<td>18,105</td>
</tr>
<tr>
<td>Renewal and Replacement Projects</td>
<td>51,040</td>
<td>70,497</td>
<td>45,073</td>
<td>12,229</td>
<td>24,048</td>
<td>202,887</td>
</tr>
<tr>
<td>Landscape Projects</td>
<td>769</td>
<td>787</td>
<td>1,413</td>
<td>799</td>
<td>794</td>
<td>4,562</td>
</tr>
<tr>
<td>Non-System Projects</td>
<td>601</td>
<td>3,151</td>
<td>1,368</td>
<td>0</td>
<td>547</td>
<td>5,667</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td>307,128</td>
<td>433,947</td>
<td>686,372</td>
<td>650,952</td>
<td>445,564</td>
<td>2,523,963</td>
</tr>
</tbody>
</table>
FY 2020-2024 Work Plan

**Pie Chart:**

- **Existing System Improvements:** 46.2%
- **System Expansion Projects:** 33.2%
- **Renewal & Replacement Projects:** 8.0%
- **Interchange Projects:** 6.4%
- **Information Technology Projects:** 2.3%
- **Transportation Technology Projects:** 1.5%
- **Facilities Projects:** 1.2%
- **Signing and Pavement Markings:** 0.7%
- **Landscape Projects:** 0.2%
- **Non-System Projects:** 0.2%

*Five-Year Work Plan FY 2020 - FY 2024*
System Expansion Map
FY 2020-2024
Work Plan
Typical Project Team Characteristics

• Prime Executes 60% of the Scope

• Key Local Resources:
  • Project Manager
  • Roadway
  • Drainage & Permitting
SR 528 Widening (System Improvements)
Narcoossee Road to SR 417

Prime – CFX Registered **SSBE**

1.8 Miles

Add Outside Lane, Mill & Resurface

No M/W/DBE Requirement

Design Estimate $750 K
SR 528 Widening (System Improvements)
Narcoossee Road to SR 417

Necessary Coordination:

Virgin Trains
CFX Project 528-143

Anticipated Advertisement
August 4, 2019
Limited Access Connection
Multiple Stakeholders
2.25 Miles
PD&E Estimate $1.5 M
Anticipated Advertisement
August 4, 2019
Concept, Feasibility & Mobility

Study Area Includes Osceola & Brevard County

Study Estimate $1.5 M

Anticipated Advertisement

August 18, 2019
SR 408 Operational Imp. (System Improvements)  
*Tampa Avenue to Orange Blossom Trail*

- Potential City of Orlando Partnership
- Approximately 1 Mile
- SR 408 Operational Improvements
- Design Est. $2.7 M
- Anticipated Advertisement
  - September/October 2019
Southport Connector PD&E (System Expansion)
Poinciana Parkway to Canoe Creek Road

System Interchange at Florida’s Turnpike

Concept, Feasibility & Mobility Documents [www.cfxway.com]

Anticipated Advertisement

November/December 2019
Expansion Project Design (System Expansion)

Contingent on Board Action
Possible Candidates Include
Lake/Orange Connector
Poinciana Parkway Extension
Osceola Parkway Extension
Anticipated Advertisement
November/December 2019
SR 528 Widening (System Improvements)
SR 417 to Innovation Way

Widening Concept in Development

Add 1 Lane Each Direction, Mill & Resurface

3.2 Miles

Design Estimate $3.7 M

Anticipated Advertisement

March/April 2020
### 1 – Year Look Ahead Summary

<table>
<thead>
<tr>
<th>Description</th>
<th>Phase</th>
<th>Work Plan Estimate</th>
<th>Anticipated Advertisement</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR 528 Widening Narcoossee to SR 417</td>
<td>Design</td>
<td>$750,000</td>
<td>August 4, 2019</td>
</tr>
<tr>
<td>SR 414 Direct Connection</td>
<td>PD&amp;E</td>
<td>$1,500,000</td>
<td>August 4, 2019</td>
</tr>
<tr>
<td>Osceola-Brevard Connector</td>
<td>CF&amp;M</td>
<td>$1,500,000</td>
<td>August 18, 2019</td>
</tr>
<tr>
<td>SR 408 Operational Improvements</td>
<td>Design</td>
<td>$2,700,000</td>
<td>September/October 2019</td>
</tr>
<tr>
<td>Southport Connector</td>
<td>PD&amp;E</td>
<td>TBD</td>
<td>November/December 2019</td>
</tr>
<tr>
<td>Expansion Project Design</td>
<td>Design</td>
<td>TBD</td>
<td>November/December 2019</td>
</tr>
<tr>
<td>SR 528 Widening SR 417 to Innovation</td>
<td>Design</td>
<td>$3,700,000</td>
<td>March/April 2020</td>
</tr>
</tbody>
</table>

~All dates are subject to change~
Construction Earnings
FY 2020-2024 Work Plan

Current 5 Year Work Plan

<table>
<thead>
<tr>
<th>Time</th>
<th>FY20</th>
<th>FY21</th>
<th>FY22</th>
<th>FY23</th>
<th>FY24</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>November 15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>December 15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January 16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>February 16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>March 16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April 16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>May 16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>June 16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July 16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>August 16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>September 16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>October 16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>November 16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>December 16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Earnings Per Month (Millions)

- Construction Earnings
- 5 Year Plan
- Past 5 Year Plan
Upcoming Widening Projects

Construction, Engineering and Inspection Consultants

#1

#2

#3

#4

#5

#6
CEI 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
SR 417 Widening
_I - Drive to Landstar Blvd._

- CEI Project #1 (417-141 & 142)
- Anticipated Advertisement:
  - Currently advertised!
- Procurement Schedule
  - LOI – 7/30/19
  - Shortlist – 8/12/19
  - Technical Due – 9/4/19
  - Interview and Final Ranking – 9/17/19
SR 417 Widening
Landstar Blvd. to Boggy Creek

- CEI Project #2 (417-149)
- Anticipated Advertisement:
  - September 2019
- Anticipated Construction NTP:
  - May 2020
- Approximately 3.7 miles
- Add lanes, mill and resurface
- 8 bridge widening locations
SR 417 Widening
Narcoossee Road to SR 528

• CEI Project #3 (417-150)
• Anticipated Advertisement:
  • November 2019
• Anticipated Construction NTP:
  • August 2020
• Approximately 4.7 miles
• Add lanes, mill and resurface
• 10 bridge widening locations
SR 429 Widening
*Turnpike to West Road*

- CEI Project #4 (429-152)
- Anticipated Advertisement:
  - January 2020
- Anticipated Construction NTP:
  - September 2020
- Approximately 5.7 miles
- Add lanes, mill and resurface
- 11 bridge widening locations
SR 429 Widening
CR 535 to Turnpike & West Road to SR 414

- CEI Project #5 (429-154 & 153)
- Anticipated Advertisement:
  - March 2020
  - Two firms will be selected
- Anticipated Construction NTP:
  - November 2020
- Approximately 7.2 miles (combined)
- Add lanes, mill and resurface
- 8 bridge widening locations
SR 417 Widening
Boggy Creek to Narcoossee Road

• CEI Project #6 (417-151)
• Anticipated Advertisement:
  • May 2020
• Anticipated Construction NTP:
  • March 2021
• 4.5 Miles
• Add lanes, mill & resurface
• 2 bridge widening locations
Construction, Engineering and Inspection

*Lighting, Tolling, and ITS*

- Anticipated Advertisement:
  - July 2020
- Typically a 3 year contract with (2) – 1 year renewals
- Traffic operations and technology projects
- Services include:
  - Senior Project Engineer
  - Technical Project Administrator
  - Senior ITS Inspector
Construction, Engineering and Inspection

Coatings Consultant - Surface Preparation and Painting

• Anticipated Advertisement:
  • September 2019

• Typically a 3 year contract with (2) – 1 year renewals

• VT and IA inspection of concrete and steel coating

• Services include:
  • Chief Scientist
  • Bridge Inspector
  • Coatings Inspector
## 1 – Year Look Ahead Summary

<table>
<thead>
<tr>
<th>Description</th>
<th>Anticipated Advertisement</th>
</tr>
</thead>
<tbody>
<tr>
<td>417-141/142 I-Drive to Landstar Blvd</td>
<td>ADVERTISED</td>
</tr>
<tr>
<td>417-149 Landstar Blvd to Boggy Creek</td>
<td>September 2019</td>
</tr>
<tr>
<td>417-150 Narcoossee Rd to SR 528</td>
<td>November 2019</td>
</tr>
<tr>
<td>429-152 Turnpike to West Rd</td>
<td>January 2020</td>
</tr>
<tr>
<td>429-153/154 CR 535 to Turnpike, West Rd to SR 414</td>
<td>March 2020</td>
</tr>
<tr>
<td>417-151 Boggy Creek to Narcoossee Rd</td>
<td>May 2020</td>
</tr>
<tr>
<td>Systemwide CEI – Lighting, Tolling, ITS</td>
<td>July 2020</td>
</tr>
<tr>
<td>Systemwide CEI – Coatings</td>
<td>September 2019</td>
</tr>
</tbody>
</table>

~All dates are subject to change~