Major Mobility Investment Program & Alternative Delivery Projects

Tim Mathews, PE

State Express Lanes Administrator

Andrew Hoenig, PE, DBIA

P3 Construction Program Manager

February 23, 2022

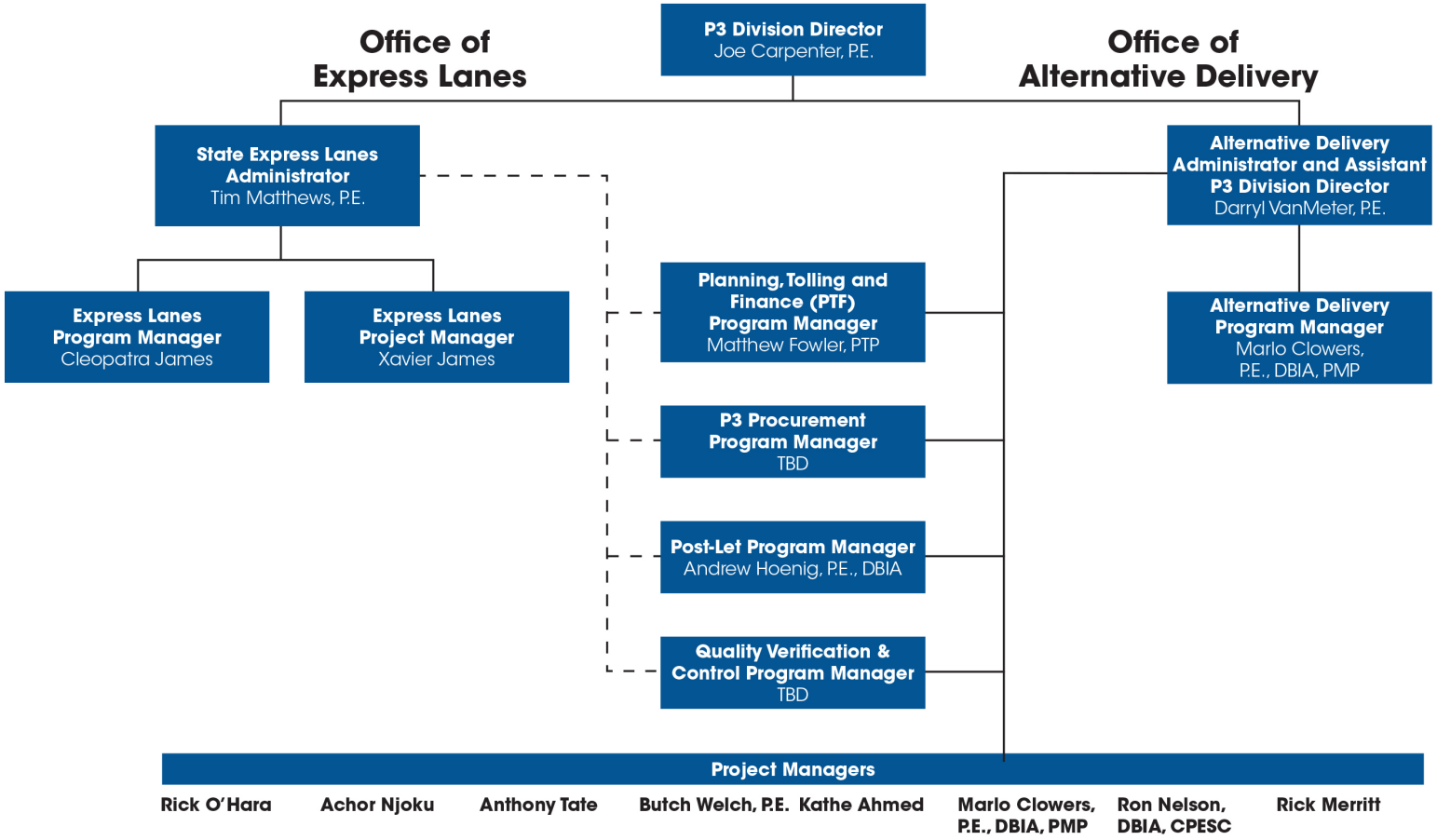
Agenda

- P3 Division and MMIP Updates
- Pre-Let Projects
- Post-Let Projects
- Industry Opportunities

P3 Division and MMIP Updates

Tim Matthews, P.E.

P3 Division Updates



- Added new Office of Express Lanes under P3 Division
- Working to deliver major projects quickly
- Focused on complex P3s and alternative delivery projects

P3 Division

DELIVERY MODEL	**Design-Build**	**Public-Private Partnerships**		**Private Revenue**
CONTRACTING METHODS	**Design-Build**	**Design-Build-Finance**	**Design-Build-Finance-Maintain**	**Design-Build-Finance-Operate-Maintain**
PROCUREMENT METHODS	**One Phase Low Bid Two Phase Low Bid Best Value**	**Best Value**		**Best Value**

Major Mobility Investment Program (MMIP)

Major Interchange Projects

- I-16/I-95
- I-285/I-20 West
- I-285/I-20 East

Major Express Lanes Projects

- I-285 East*
- I-285 West*
- SR 400**

Major Interstate Widening Projects

- I-85 Phase 1
- I-85 Phase 2
- I-16

Commercial Vehicle Lanes Project

- I-75

I-285 Advanced Improvement Projects

- I-285/Peachtree Industrial Boulevard Interchange Improvements
- I-285 Eastside Bridge Replacements
- I-285 Westbound Auxiliary Lane Extension

**Remainder of I-285 Express Lanes to be delivered as extensions*
***SR 400 Phase 1 Design-Build construction package comprised of three bridge replacements*

In Procurement

Under Construction

Open to Traffic

MMIP Project Locations

Interchange Reconstruction:

1. I-16/I-95
2. I-285/I-20 West
3. I-285/I-20 East

Express Lanes:

4. I-285 Express Lanes East*
5 I-285 Express Lanes West*
6. SR 400**
•••• Extensions

Interstate Widening:

7. I-85 Phase 1
8. I-85 Phase 2
9. I-16

Commercial Vehicle Lanes:

10 I-75

I-285 Advanced Improvement Projects:

11 I-285/Peachtree Industrial Boulevard Interchange Improvements

12 I-285 Eastside Bridge Replacements

13. I-285 Westbound Auxiliary Lane Extension

*Remainder of I-285 Express Lanes to be delivered as future segments or extensions

**SR 400 Phase 1 Design-Build construction package comprised of three bridge replacements

MMIP Progress

2016

Major Mobility Investment Program Announced
Largest transportation investment in state history

2018

INFRA Grant Awarded
SR 400 Express Lanes

Agency Coordination
- MARTA
- SRTA
- FHWA

First MMIP project broke ground
I-85 Widening, Phase 1

2019

Robust Industry Engagement
- Industry forums
- Speaking engagements
- One-on-ones

Advancing Environmental Process
- Over 300 stakeholder meetings
- Establishing environmental commitments

Advancing Projects Early on I-285
Provides local road improvements sooner and more opportunities for industry involvement

2020

Construction Begins in Savannah
16@95 Improvement Projects

Virtual Engagements
Pivoted to presenting and letting projects virtually to keep schedules on track

First MMIP Project Opens to Traffic
I-85 Widening, Phase 1

2021

Pivot to New P3 Approach
Adjust to Private Revenue delivery for I-285 Express Lanes

SR 400 Express Lanes
Cancelled procurement but not the project; advanced three bridges for DB project

Procurement Advances
I-285/I-20 East Interchange reaches final stages of procurement

Pre-Let Projects

Tim Matthews, P.E.

I-285/I-20 West Interchange

Project Overview

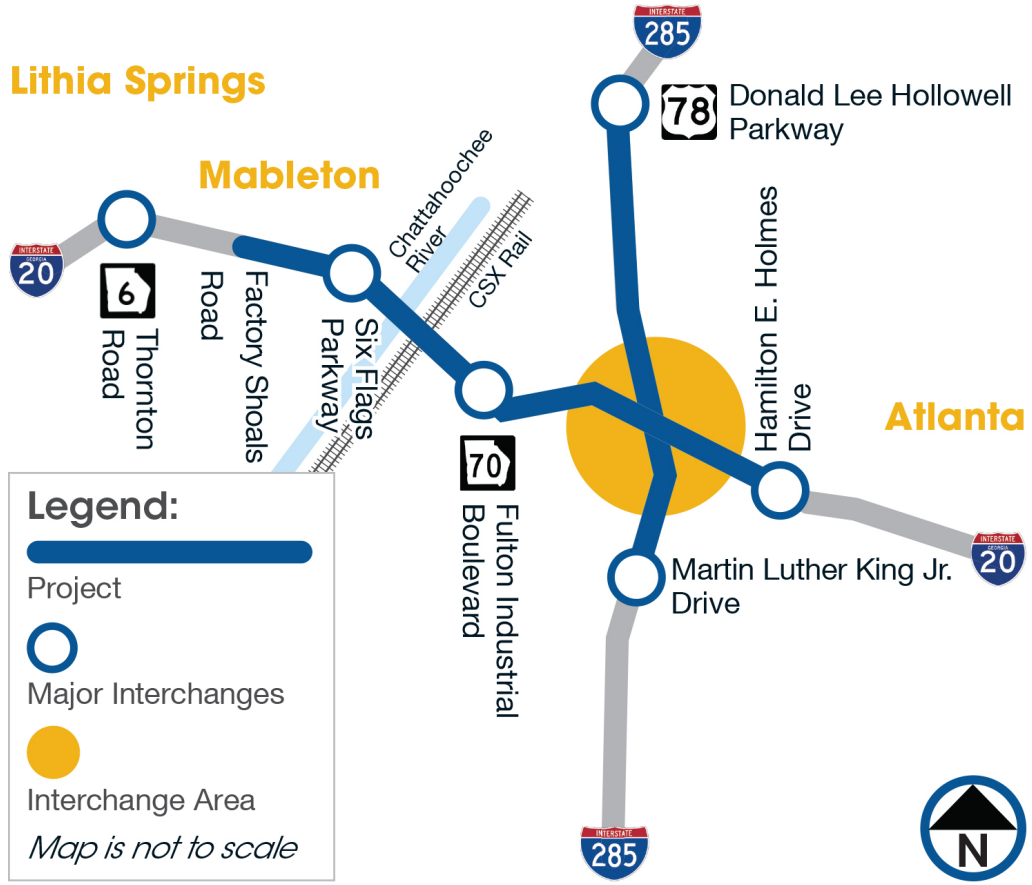
- Improve safety and operation of the I-285/I-20 West Interchange
- Includes WB collector-distributor system from I-285/I-20 Interchange to Fulton Industrial Boulevard
- 5th worst truck bottleneck in US
- Design-Build-Finance delivery model

Current Status

- Costing Plans 90% complete
- ROW plans prepared and Early Acquisition advancing
- EA under review at FHWA
- NEPA Approval expected within a year

Anticipated Procurement Start: Q4 2022

Anticipated Letting Date: Q2 2024



I-75 Commercial Vehicle Lanes

Project Overview

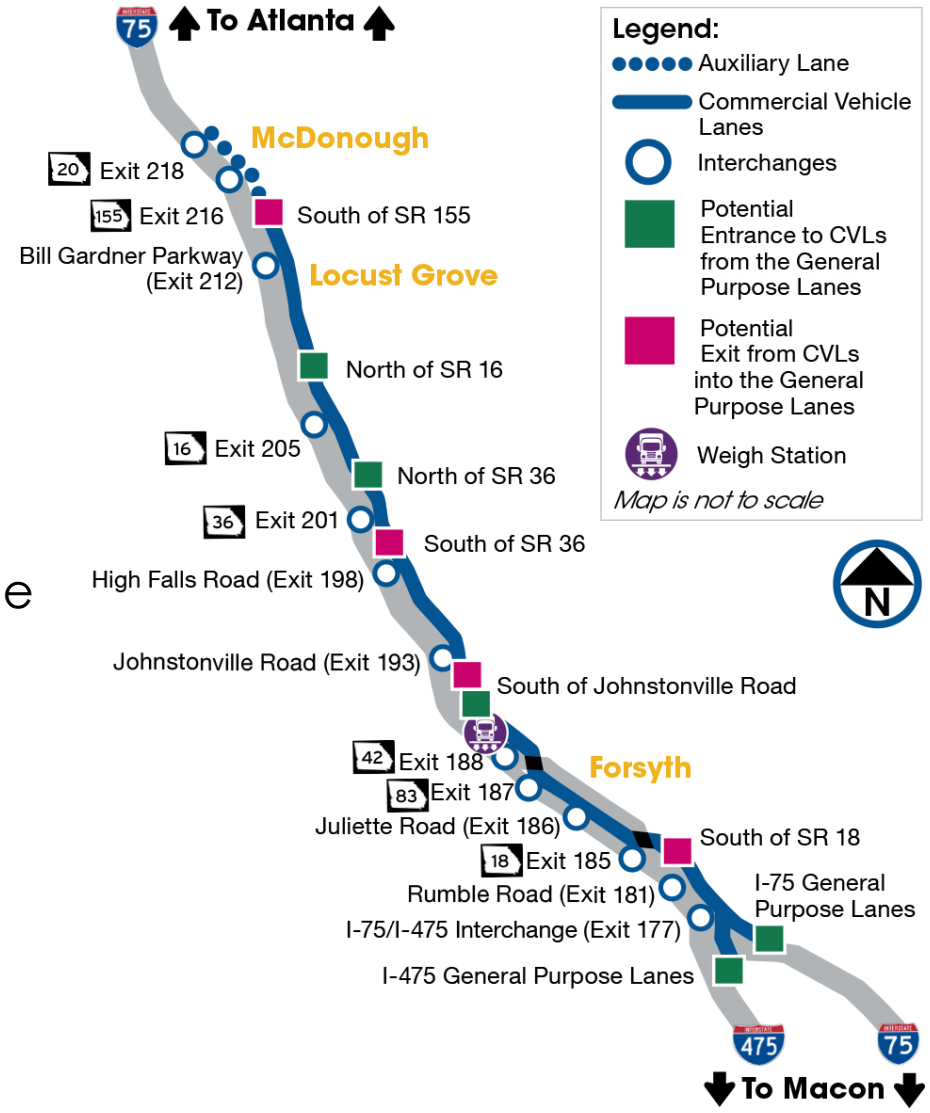
- Approximately 41 miles of NB only, toll-free, barrier-separated lanes, commercial vehicles only
- Facilitates future use of CAV technology
- Design-Build-Finance-Maintain delivery model with availability payments

Current Activities

- Costing Plans 90% complete
- ROW plans in progress and Early Acquisition will advance
- NEPA activities advancing to align with procurement schedule

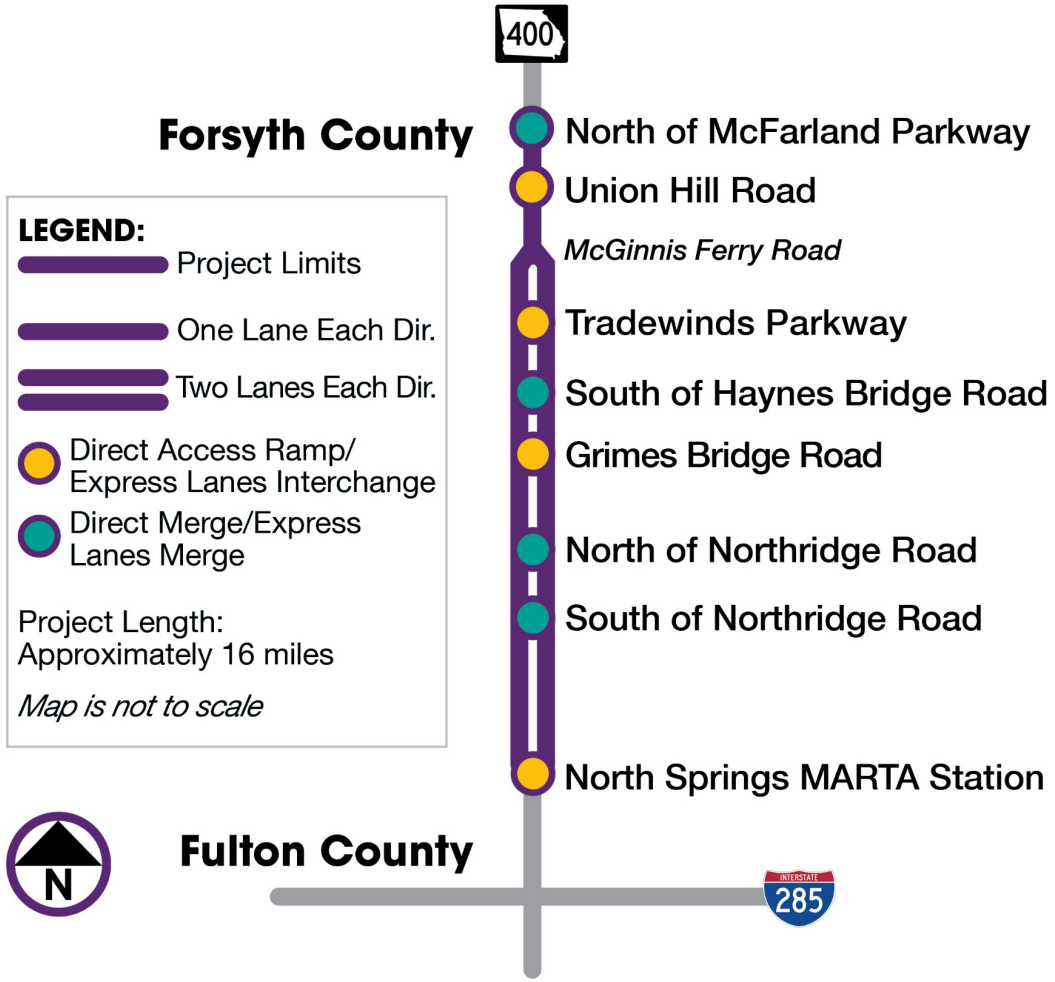
Anticipated Procurement Start: Q1 2025

Anticipated Letting Date: Q3 2026



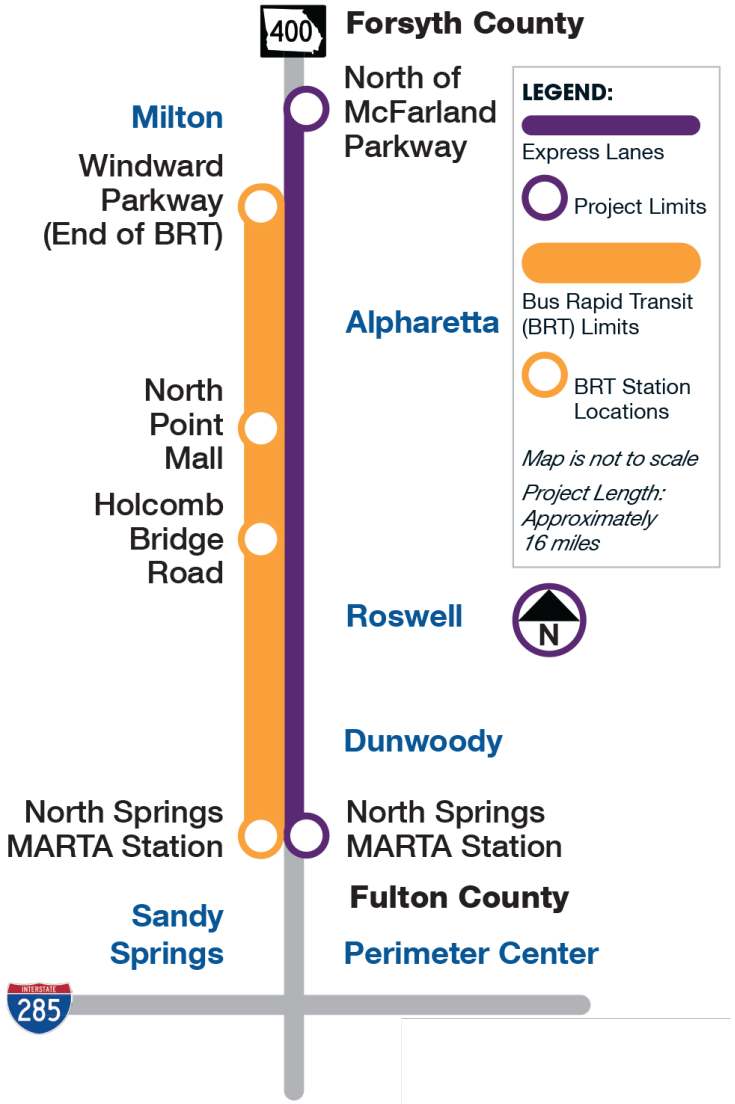
SR 400 Express Lanes

- New procurement as stand-alone revenue risk concession
- Project scope and limits remain the same (excluding accelerated bridges)
- Available public funding amounts to be detailed in RFP
- Will advance prior to the I-285 Express Lanes



Express Lanes Transit (ELT) on SR 400

- ELT is MARTA's preferred transit alternative and included in Fulton County Transit Plan
- ELT on SR 400 will be a bus rapid transit (BRT) system
- Funding available for construction of BRT accommodations and infrastructure
- Preliminary station designs will be provided to support procurement and design process
- Commitments to advancing transit elements will be considered in developer selection



I-285 Express Lanes Delivery Approach

- Initial segments for I-285 East and West Express Lanes to be procured separately
- Remainder of I-285 Express Lanes to be delivered as extensions to the initial concessions
- Extensions subject to demonstration of value and GDOT acceptance of detailed proposals
- GDOT retains rights to procure remaining segments separately if extension proposals not acceptable
- Anticipate that initial I-285 East segment will begin procurement in Summer 2023, and initial I-285 West segment in Fall 2024

Projects in Procurement

Tim Matthews, P.E.

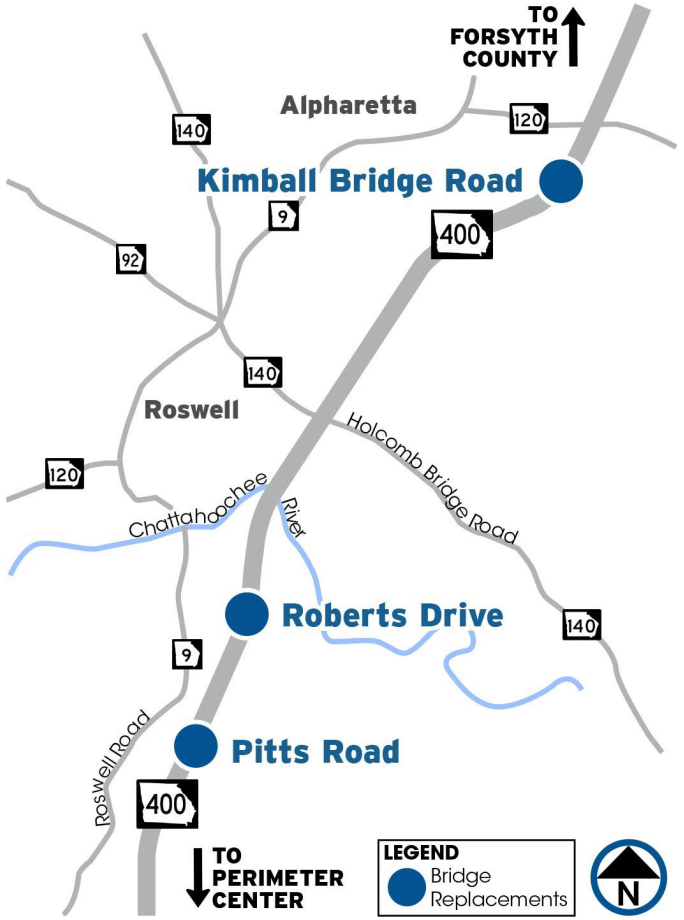
SR 400 Phase 1 DB Project

Project Overview

- Pulled forward as part of the phased delivery of the SR 400 Express Lanes project
- Replaces Pitts Road, Roberts Drive, and Kimball Bridge Road bridges over SR 400
- GEC: AECOM
- Budget: $63M

Current Activities

- Issued final RFP January 7
- Letting April 2022



2023
Construction starts

2025
Substantial Completion

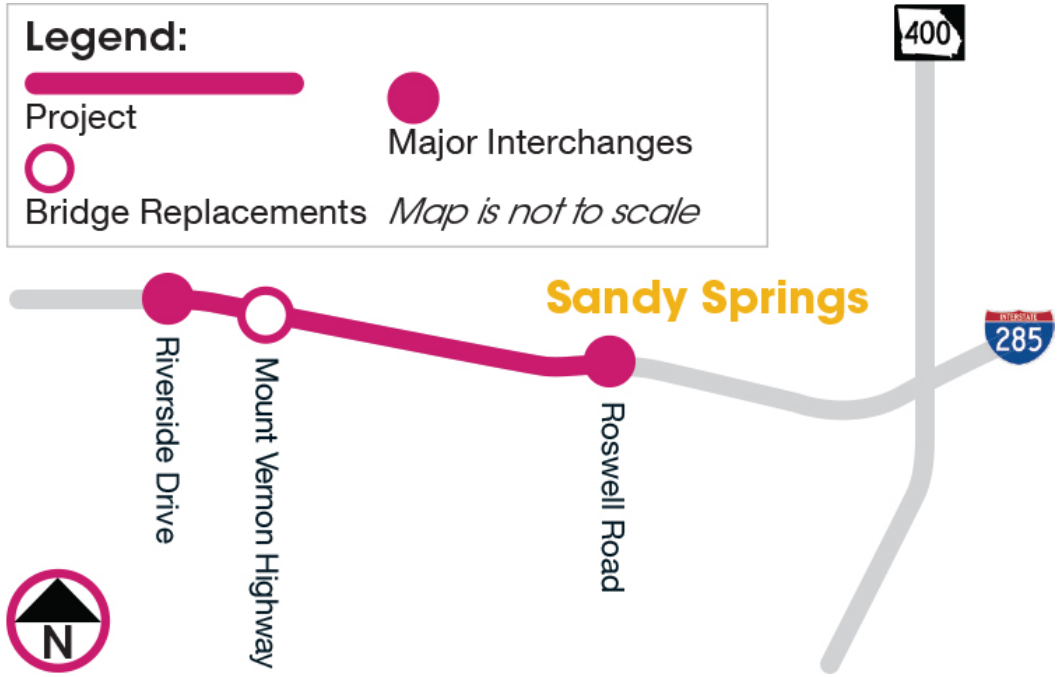
I-285 Westbound Auxiliary Lane Extension

Project Overview

- Adds an auxiliary lane along I-285 between Roswell Road and Riverside Drive
- Replaces the Mount Vernon Highway bridge over I-285
- Widens I-285 bridge over Long Island Drive to accommodate the auxiliary lane; lowers Long Island Drive to provide vertical clearance
- Budget: $23M

Current Activities

- CE anticipated to be approved in Q1 2022
- Letting May 2022



2023
Construction starts

2024
Substantial Completion

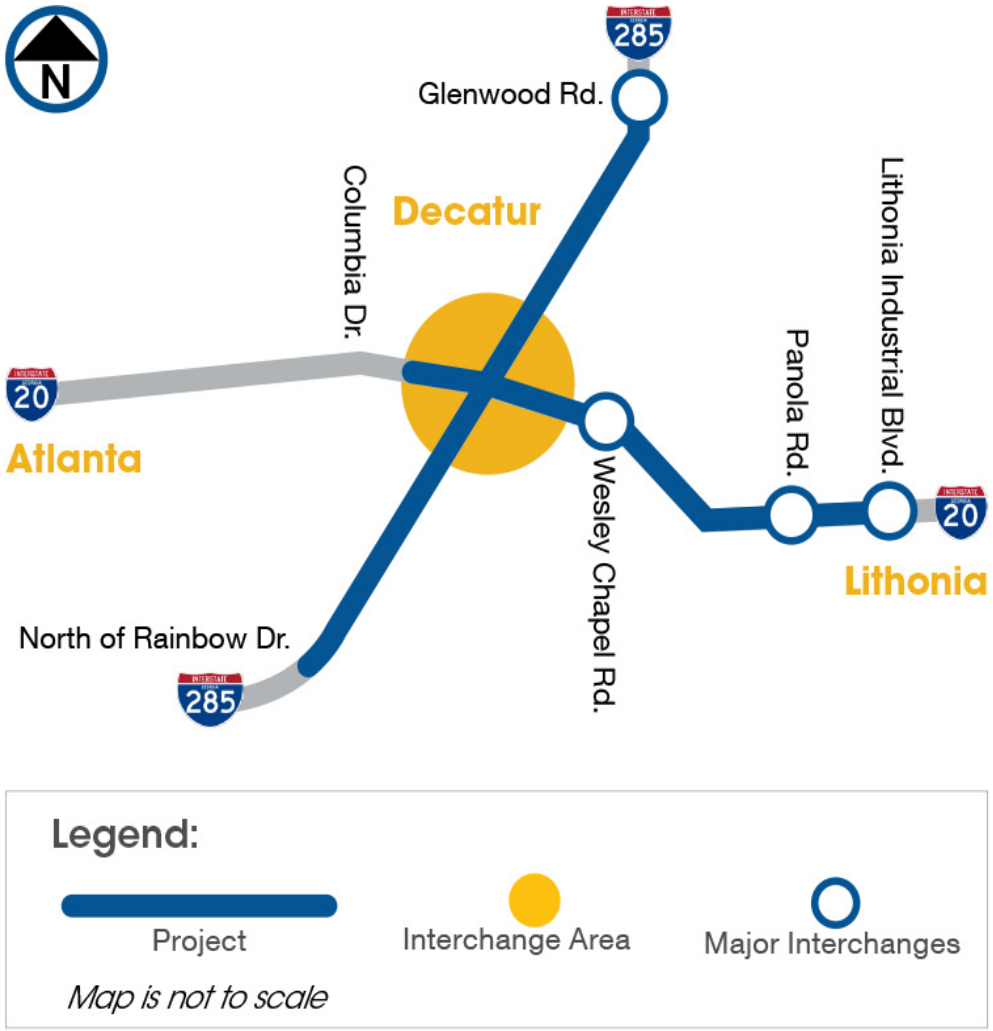
I-285/I-20 East Interchange

Project Overview

- Improves traffic and safety at the I-285/I-20 Interchange and along the I-20 corridor
- Reconstructs ramps and constructs new I-20 westbound collector-distributor (CD) lanes
- Adds auxiliary lanes along I-20 and I-285
- GEC: Parsons
- Budget: $810.7M

Current Activities

- Proposals received January 27
- Letting in Q2 2022



2023
Construction Start

2026
Substantial Completion

Upcoming DB Projects

Andrew Hoenig, DBIA

Additional Upcoming DB Projects

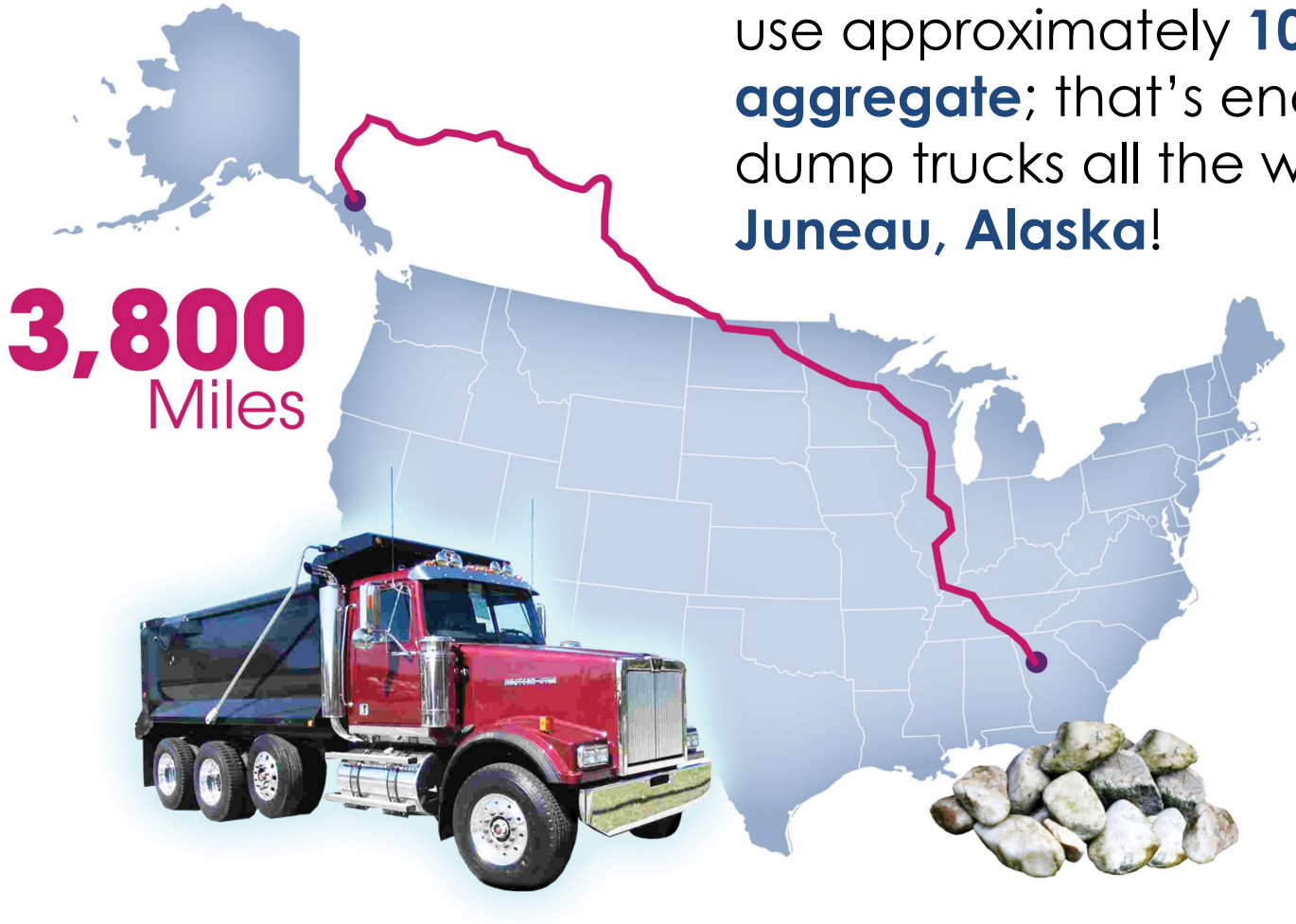
Project	Letting
FY22 Design-Build Bridge Bundle *PI Number 0018124*	June 2022
US 278 Widening *PI Number 0017219*	August 2022
I-20 Frontage Road from SR 12/US 278 to CR 249/Old Mill Road *PI Number 0018363*	August 2022
SR 316 @ SR 211 & SR 316 @ Barber Creek Road *PI Numbers 0010352 & 0013910*	Q2 2023
I-20@Old Mill Road (CR 249) Interchange Project *PI Number 0018361*	Q4 2023
SR 316 @ Jimmy Daniel Rd, SR 316 @ Virgil Langford & SR 316 @ Oconee Connector *PI Numbers 0013767, 0013768, 0013769*	Q4 2023
SR 25 @ Darien River Bridge Replacement *PI Number 0013599*	Q4 2023
SR 316 @ Carl – Bethlehem Rd & SR 316 @ Kilcrease Rd *PI Numbers 0013903 & 0013902*	Q2 2024

Post-let Projects

Andrew Hoenig, DBIA

MMIP Aggregate Estimate

The Major Mobility Investment Program will use approximately **10 million cubic yards of aggregate**; that's enough to fill a line of dump trucks all the way from **Atlanta** to **Juneau, Alaska**!



22

16@95 Improvement Projects

Project Overview

- Provides enhancements to the I-16 at I-95 interchange and along the I-16 corridor, one of Georgia's busiest freight corridors as well as the gateway to the growing port in Savannah
- Awarded to Savannah Mobility Contractors (SMC) in June 2018
- Budget: $317M

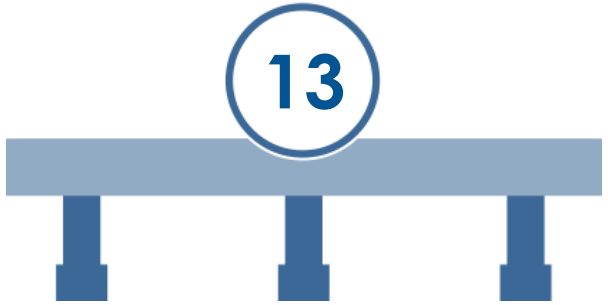
Current Activities

- MSE wall construction
- Ongoing construction in all three zones

2020
Construction Start

Q4 2023
Substantial Completion

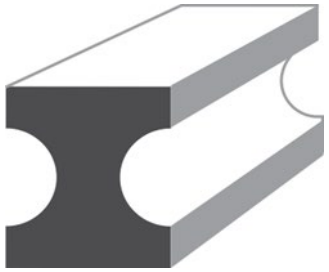
16@95 Improvement Projects



Bridges

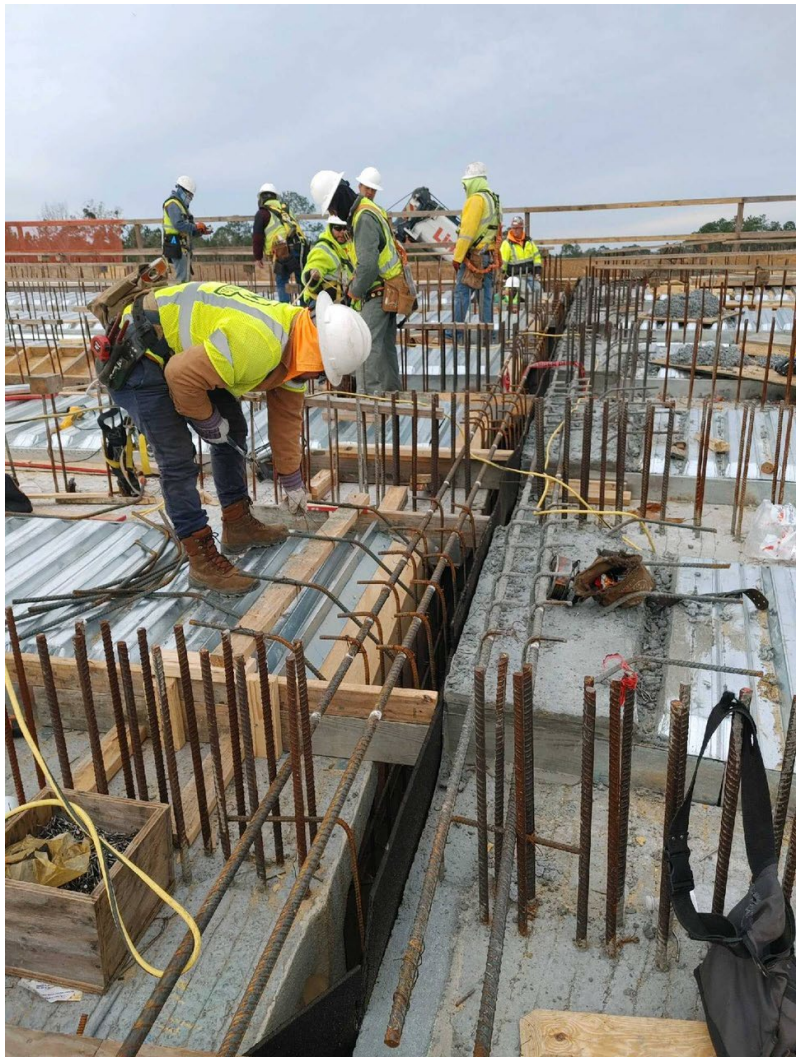
Lane miles

Retaining walls



Beams placed in the Interchange:
111 (to date)
265 (entire project)

Noise barriers



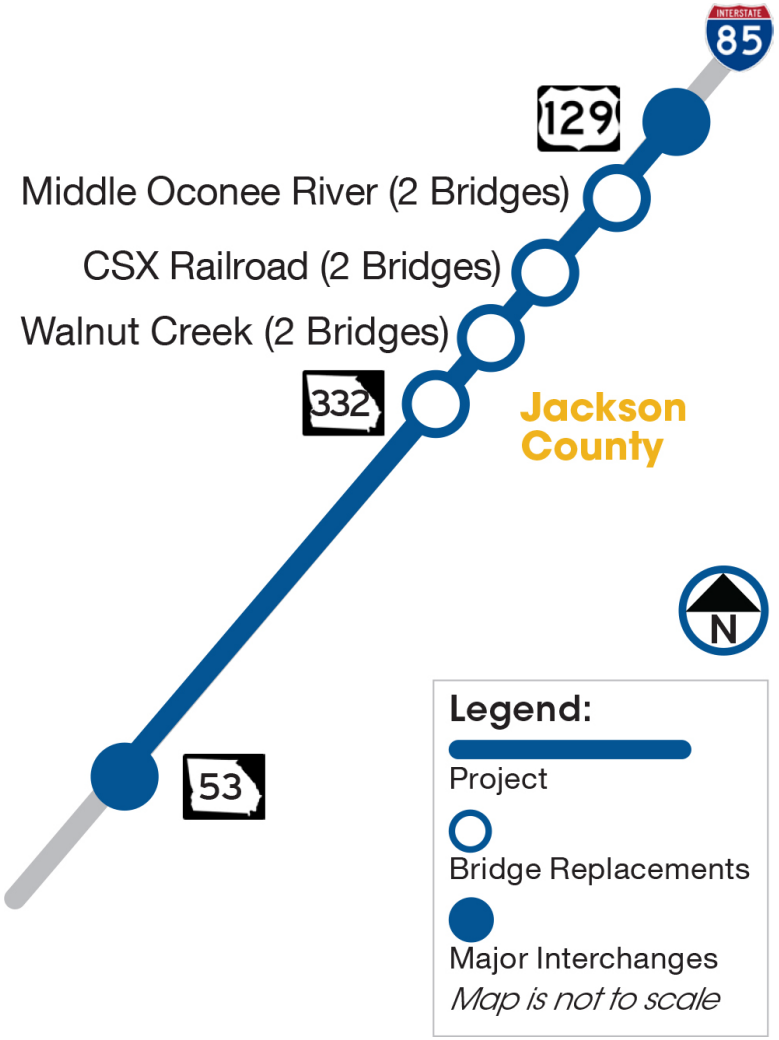
I-85 Widening, Phase 2

Project Overview

- Widens I-85 from two lanes to three lanes just north of SR 53 to just north of SR 11/US 129
- Replaces one overpass bridge and six in-line bridges
- Awarded to C.W. Matthews/I.C.E. in May 2020
- Budget: $109M

Current Activities

- Noise barrier construction
- Ongoing construction
- Detour started January 31 at SR 332 over I-85 for 180 days



Construction Start
2021

Substantial Completion
2023

I-85 Widening, Phase 2

Bridges

Lane miles

Retaining wall

Asphalt placed:
82,000 tons (to date)
230,000 tons (entire project)

Sound barriers

I-20@Savannah River Bridge

Project Overview

- Replacement of bridges on I-20 over the Savannah River and Augusta Canal
- Widening I-20 from four to six lanes
- Awarded to Superior/WSP in October 2018
- Budget: $90.1M

Current Activities

- NEPA reevaluation approved in January 2022
- Temporary lane closures
- Ongoing demolition of both bridges
- Preparing for cofferdam flip to the west side of the Savannah River

Construction Start
2019

Substantial Completion
2022

SR 53 WB over Chattahoochee River

Project Overview

- Replaces existing bridge over the Chattahoochee River/Lake Lanier
- Design-Build Team: ER Snell/ATLAS
- Awarded July 2019
- Budget: $25.1M

Current Activities

- Simple spans have been poured
- Two of six spans for the continuous span have been poured
- Deck rebar placement is ongoing
- Road work west of the bridge will begin shortly

Construction Start
2020

Substantial Completion
2022

Dean Forest Road (SR 307) @ I-16 DDI

Project Overview

- Provide operational improvements by replacing the bridge, adjusting ramp lengths, adding an exit lane to one ramp, and constructing a DDI
- Awarded to Reeves Construction/ICE in June 2020
- Budget: $46.8M

Current Activities

- Bent 2 substructure recently completed
- Ongoing clearing and grubbing
- Installation of MSE walls
- Preparation for bent cap placement

Construction Start
2021

Substantial Completion
2023

I-285/Peachtree Industrial Boulevard Interchange Improvements

Project Overview

- Combines the I-285 westbound exit ramps to Peachtree Industrial Boulevard north and south, while adjusting the horizontal curve of the north exit ramp to reduce bottleneck from I-285
- Awarded to E.R. Snell/ATLAS in Feb 2021
- Budget: $21.5M

Current Activities

- Construction activities began in January starting with utility relocations
- The permanent closure of a slip ramp from I-285 allows for construction of a temporary ramp

2022
Construction Start

2023
Substantial Completion

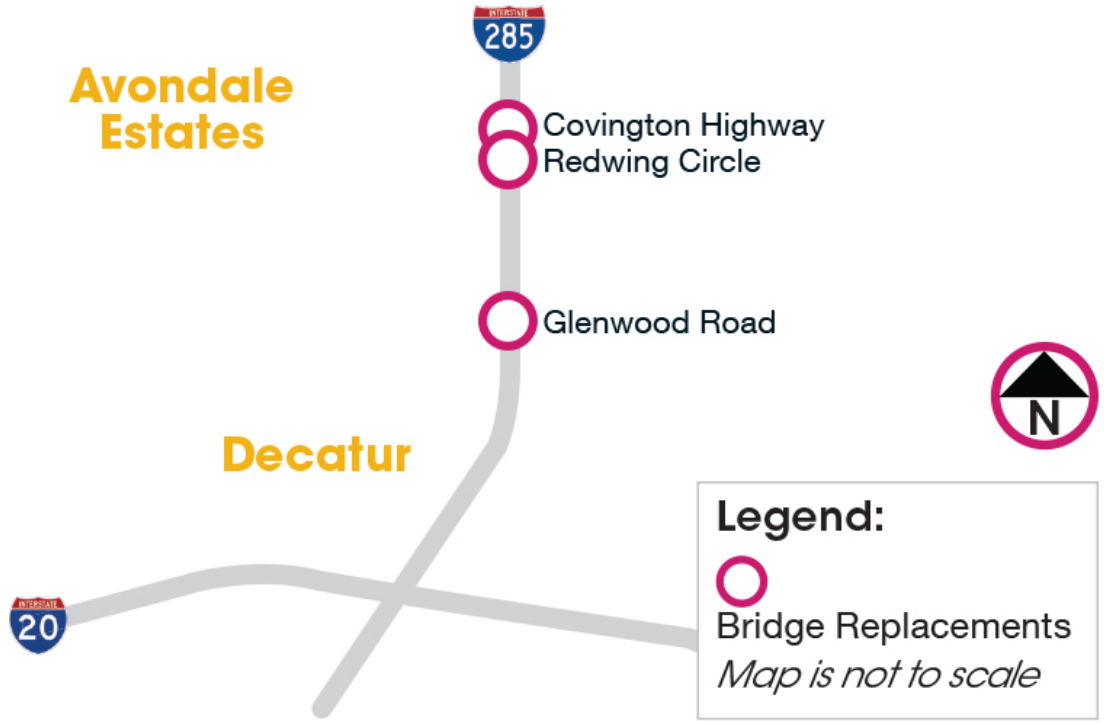
I-285 Eastside Bridge Replacements

Project Overview

- Replaces Covington Highway over I-285, Redwing Circle over I-285, and Glenwood Road over I-285
- Extends bridges to accommodate future express lanes and mitigate local access impacts during construction of the I-285 Eastside Express Lanes project
- Awarded to Archer Western/ICE in April 2021
- Budget: $61.5M

Current Activities

- Construction activities began in February on Redwing Circle and Covington Highway



2022
Construction Start

2023
Substantial Completion

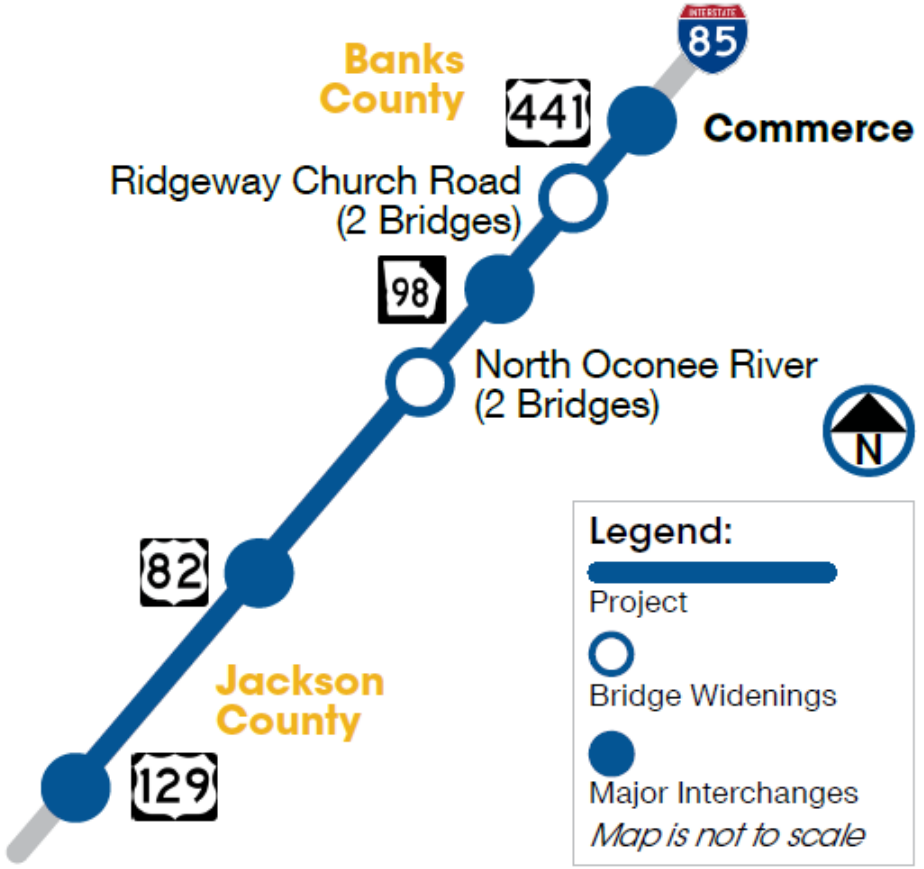
I-85 Widening, Phase III

Project Overview

- Widens I-85 from two the three lanes
- Widening four bridges
- Awarded June 25, 2021 to ER Snell/WSP USA
- Budget: $165.3M

Current Activities

- NTP 2 issued Feb 2022; working towards NTP 3
- DBT has started design and environmental submittals



Construction Start
2022

Substantial Completion
2024

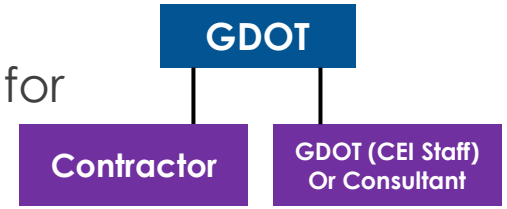
Industry Opportunities

Andrew Hoenig, DBIA

Construction Quality Assurance Program (CQAP)

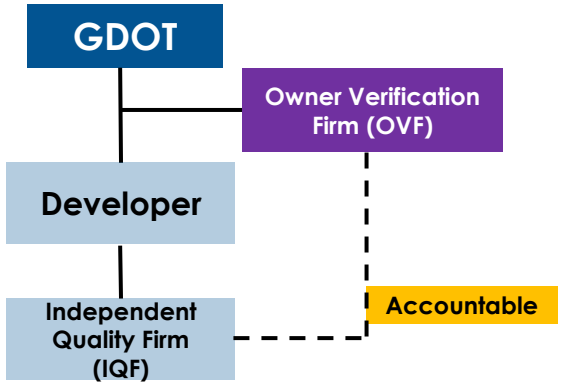
DBB vs. DBF/P3 Models

Quality Assurance Program
Design-Bid-Build & Design-Build



- Typically Projects <$200M
- Georgia DOT responsible for Construction Quality Acceptance (QA)
- Close coordination required between Georgia DOT QA and Contractor
- QA testing is performed by GDOT/representative
- QA inspection is performed by GDOT/representative
- Materials Certification at project completion by OMAT/ representative

Quality Assurance Program
Design-Build-Finance/P3

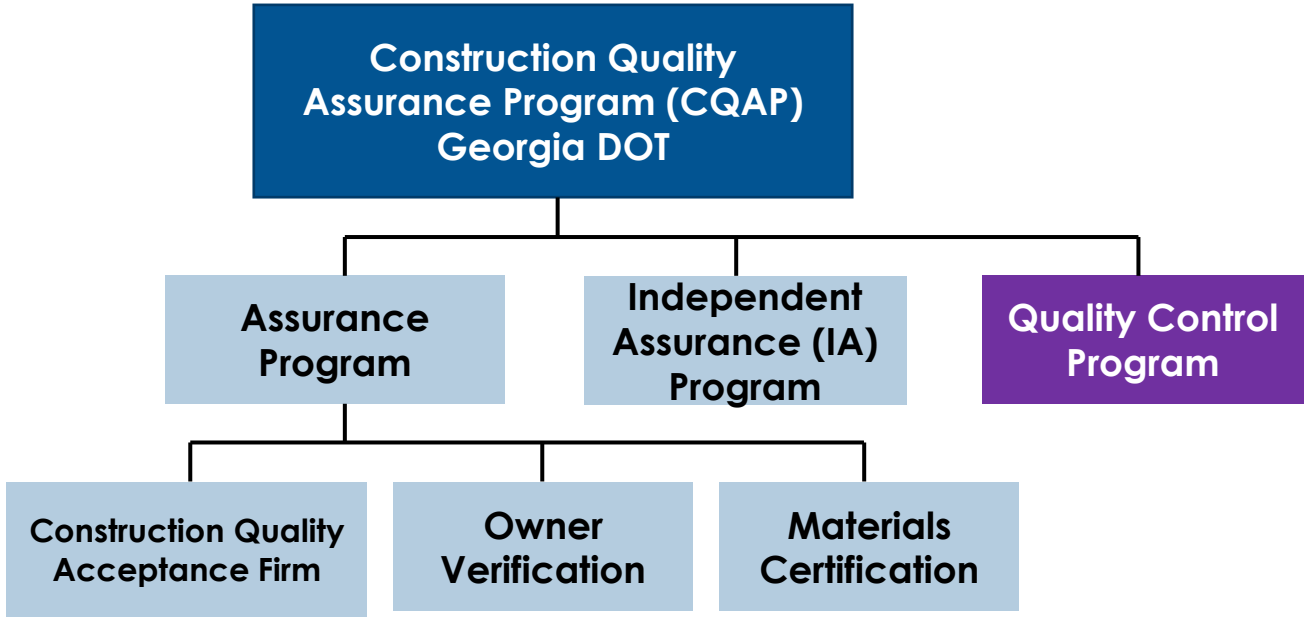


- Type of Projects:
  - DBF
  - DBFM
- Typically Projects > $200M
- Developer responsible for Design QC & QA
- Developer responsible for Construction QC &QA
- Independent Quality Firm hired by Developer to perform Quality Acceptance (QA)
- Georgia DOT performs verification testing, inspection and auditing
- Quality **Risk** allocated to the Developer

Construction Quality Assurance Program (CQAP)

CQAP Components:

- Quality Control (QC)
  - Developer's QC
- Acceptance Program
  - Quality Acceptance (QA)
  - Developer's IQF
  - Owner Verification (OV)
  - Owner's Verification Firm (OVF) - 10% frequency of QA testing
  - Material certification quarterly and at Project Final Acceptance
- Independent Assurance Testing (IA)
- Material Data Base – Assure-It



DBE Engagement

Industry forums and one-on-one meetings

Strong relationships between owner and developers/DBTs

Upcoming DBE Events

March 10 – DBE Advantage

March 24 – Plane, Trains & Automobiles (tentative)

April 28 – DBE Showcase

Contact Information:
DBEMMIP@dot.ga.gov
404-946-5764

Where to Find Opportunities

P3 Projects and MMIP:

http://www.dot.ga.gov/PS/Innovative/P3

Public Private Partnerships (P3) Program

Public-Private Partnerships (P3) are partnerships formed between public entities like the Georgia DOT and private companies and can complement Georgia DOT's other traditional and innovative delivery methods. Such a partnership allows the State to better allocate the limited resources we have for transportation projects by leveraging private sector innovation and capital.

These partnerships accelerate project delivery, provide access to additional capital, enable a longer-term view of asset management, and can reduce public cost and debt requirements. As a result, Georgia can offer enhanced and expanded mobility options for the traveling public and freight transportation.

NEWS

Announcing Award for the I-85 Widening Phase 3 Project
July 2, 2021, 10:30 AM

GDOT's Innovative Delivery Office has released the bid award for the I-85 Widening Phase III project (PI# 0015245), from US 129 to US 441 in Banks and Jackson counties.

Recent News

Pre-Register to Receive I-75 Commercial Vehicle Lanes Industry Forum Presentation

Announcing Award for I-285 at PIB Interchange Advanced Improvement Project

View All News

About P3 | P3 Projects | Procurement Details | ROW Services | Publications

The Georgia DOT is responsible for the development and implementation of a statewide program for project delivery through the P3 Program, as provided for under O.C.G.A. §§ 32-2-78 to -80 (2006) enacted at 2009 GA. Laws 976, 984-8.

P3 projects leverage limited transportation funds by partnering with the private sector using innovative delivery methods, such as Design-Build (DB), Design-Build-Finance (DBF), Design-Build-Finance-Operate (DBFO), Design-Build-Finance-Maintain (DBFM) and Design-Build-Finance-Operate-Maintain (DBFOM).

Benefits to P3 partnerships include expedited completion compared to conventional project delivery methods, project cost savings, improved quality and system performance from the use of innovative materials and management techniques, substitution of private resources and personnel for constrained public resources, and access to new sources of private capital.

The Georgia DOT is required to identify and submit to the State Transportation Board a list of projects on the Statewide Transportation Improvement Program, or otherwise identified, that should be considered for pursuit as P3. That list is submitted to the State Transportation Board on July 31st of each odd-numbered year. The goal is to identify those projects that can afford the greatest gains in congestion mitigation or promotion of economic development for Georgia.

Design-Build Projects:

http://www.dot.ga.gov/PS/Innovative/DesignBuild

Design-Build

Design-Build is a method of project delivery in which one entity – the Design-Build team – works under a single contract with Georgia DOT to provide design and construction services. This method allows for greater efficiencies in project delivery which typically results in accelerated project schedules.

NEWS

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Recent News

Announcing Bid Results for the I-85 Widening Ph 3 Project

Announcing Award for the I-285 Eastside Bridges Replacement

View All News

Design-Build Approved & Awarded Projects

PRINTABLE DOCUMENTS	REVISED
Design-Build Approved Projects	10/7/21
Design-Build Awarded Projects	10/7/21

Q&A

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