

PROJECT STATUS SHEET

PROJECT DESCRIPTION

The proposed "Complete 540" project, also known as the Southeast Extension, would extend the Triangle Expressway from the NC 55 Bypass in Apex to the US 64/US 264 Bypass (I-87) in Knightdale, completing the 540 Outer Loop around the greater Raleigh area. Phase 1 is under construction to extend Triangle Expressway by 17.8 miles between NC 55 Bypass and I-40.

P & D: LOCHNER **

TRAFFIC ANALYSIS: HNTB

TRAFFIC & REVENUE: CDM SMITH

** see page 2 for further information

IMPORTANT FACTS

Construction Began: late 2019/early 2020 Projected Cost: \$1.3B

Open to Traffic: 2023

Type of Tolling: Fixed tolls

KEY NCTA ACTIVITIES

Listed below are key activities being conducted by NCTA in the next six months in order to bring the project online.

PLANNING/DESIGN/CONSTRUCTION

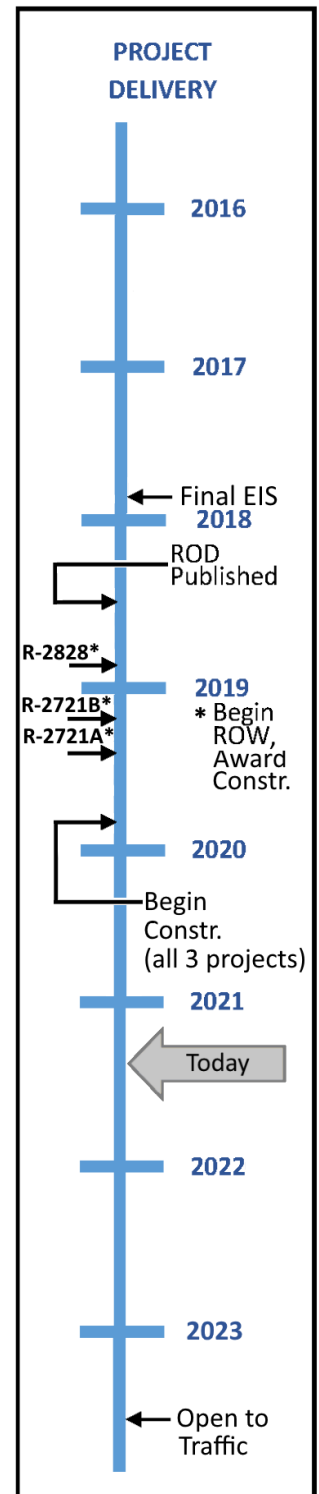
- Review and respond to Design-Build Teams' design submittals
- Completing right-of-way acquisition
- Continuing utility relocations
- Coordinating with construction teams and Division 5
- Complete Quarterly Construction Progress Reports
- Hold quarterly Dispute Review Board meetings

FINANCE

- Submitted Letter of Interest and application to the Build America Bureau seeking an interest rate reset on the December 2019 TIFIA loan
- Monitoring expenditures
- Completing financial reporting requirements

ALL-ELECTRONIC TOLLING

- Continue project activities with selected vendor for the Roadside Toll Collection System (RTCS)



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Additional P & D Subconsultants:

- **BRANDING & LEP SERVICES – SPRINGBOARD/EYDO** (no longer in business)
- **NATURAL SYSTEMS & HYDROLOGY (PRELIMINARY) – MULKEY** (now NV5)
- **MUSSEL SPECIES – CATENA** (now THREE OAKS)
- **HISTORIC ARCHITECTURE – MATTSON, ALEXANDER & ASSOCIATES**
- **UTILITIES – HINDE ENGINEERING**
- **RIGHT OF WAY (DEIS) – HDR**
- **QUANTITATIVE ICE – BAKER**
- **BIOLOGICAL ASSESSMENT T&E SPECIES – THREE OAKS**
- **ARCHAEOLOGY – COASTAL CAROLINA RESEARCH** (now COMMONWEALTH HERITAGE GROUP)
- **RIGHT OF WAY (FEIS) – CAROLINA LAND ACQUISITION**
- **PLAN OF FINANCE – PFM**

Subconsultants for permits, hydrology, and right of way plans:

- **HYDROLOGY – SUNGATE DESIGN GROUP**
- **HYDROLOGY – ECOLOGICAL ENGINEERING**
- **PERMITS – ECOLOGICAL AND/OR SUNGATE**

NCTA Advisors and Vendors:

- **PROJECT DELIVERY – DAWSON & ASSOCS.**
- **ROADSIDE AET SYSTEM – KAPSCH**

R-2828 Design-Build Team:

- **CONSTRUCTOR JOINT VENTURE– LANE CONSTRUCTION CORP., BLYTHE CONSTRUCTORS, INC.**
- **LEAD DESIGNER – WSP**
- **GEOTECH – TERRACON**
- **ITS, SURVEY – DRMP**
- **ITS AND AET CONSTRUCTOR - TCD**
- **RIGHT OF WAY ACQUISITION – AAG**
- **UTILITY COORDINATION – TELICS**
- **STRUCTURE DESIGN – WETHERILL**
- **PERMITTING & ENVIRONMENTAL - THREE OAKS**

R-2721B Design-Build Team:

- **CONSTRUCTOR JOINT VENTURE– FLATIRON CONSTRUCTORS INC., BRANCH CIVIL INC.**
- **LEAD DESIGNER – HDR ENGINEERING INC. OF THE CAROLINAS**
- **GEOTECH – HDR ENGINEERING INC. OF THE CAROLINAS**
- **ITS – HDR ENGINEERING INC. OF THE CAROLINAS**
- **ITS AND AET CONSTRUCTOR – TO BE DETERMINED**
- **UTILITY COORDINATION – HDR ENGINEERING INC. OF THE CAROLINAS, SO-DEEP**
- **STRUCTURE DESIGN – HDR ENGINEERING INC. OF THE CAROLINAS, SIMPSON ENGINEERS & ASSOCIATES, PC**
- **PERMITTING & ENVIRONMENTAL - HDR ENGINEERING INC. OF THE CAROLINAS**

R-2721A Design-Build Team:

- **CONSTRUCTOR JOINT VENTURE– FLATIRON CONSTRUCTORS INC., BRANCH CIVIL INC.**
- **LEAD DESIGNER – GANNETT FLEMING, INC.**
- **GEOTECH – KLEINFELDER, INC.**
- **ITS – GANNETT FLEMING, INC.**
- **ITS AND AET CONSTRUCTOR - TO BE DETERMINED**
- **UTILITY COORDINATION – KCI ASSOCIATES OF NORTH CAROLINA, PA**
- **STRUCTURE DESIGN – GANNETT FLEMING, INC., KCI ASSOCIATES OF NORTH CAROLINA, PA, SIMPSON ENGINEERS & ASSOCIATES, INC.**
- **PERMITTING & ENVIRONMENTAL - MOFFATT & NICHOL, INC.**

Representing Division 5:

- **CONSTRUCTION ENGINEERING & INSPECTION – SUMMIT**

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The proposed "Complete 540" project, also known as the Southeast Extension, would extend the Triangle Expressway from the NC 55 Bypass in Apex to the US 64/US 264 Bypass (I-87) in Knightdale, completing the 540 Outer Loop around the greater Raleigh area. Phase 2 will extend Triangle Expressway by 10.8 miles between I-40 and US 64/US 264 Bypass (I-87).

P & D: LOCHNER **

TRAFFIC ANALYSIS: HNTB

TRAFFIC & REVENUE: CDM SMITH

** see page 2 for further information

IMPORTANT FACTS

Contract let*: FY 2025

Projected Cost: \$834M

Open to Traffic: TBD

Type of Tolling: Fixed tolls

*Contract let subject to change

KEY NCTA ACTIVITIES

Listed below are key activities being conducted by NCTA in the next six months in order to bring the project online.

PLANNING/DESIGN/CONSTRUCTION

- Coordination with CAMPO regarding the recent STIP amendment approved by the NCDOT Board of Transportation
- Developing schedule for acceleration of the project
- Identifying project development activities to prepare for Design-Build procurements

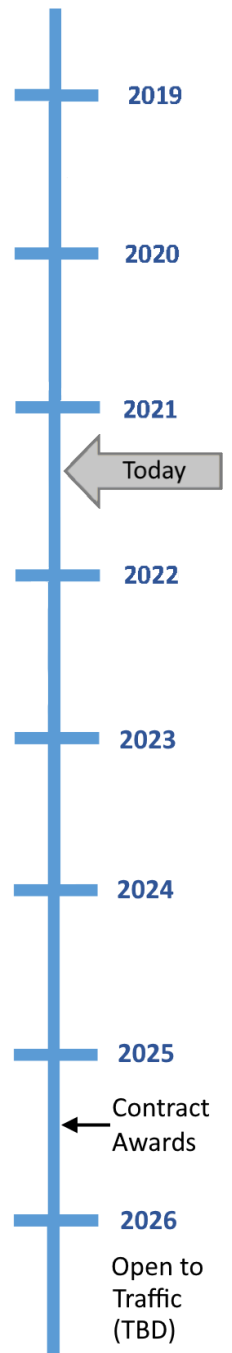
FINANCE

- Completing Investment Grade Traffic & Revenue (T&R) Study
- Submitted Letter of Interest to the Build America Bureau seeking a TIFIA loan

ALL-ELECTRONIC TOLLING

- No activities anticipated

PROJECT DELIVERY



PROJECT STATUS SHEET

Additional P & D Subconsultants:

- **BRANDING & LEP SERVICES –**
SPRINGBOARD/EYDO (no longer in business)
- **NATURAL SYSTEMS & HYDROLOGY (PRELIMINARY) –** **MULKEY** (now **NV5**)
- **MUSSEL SPECIES –** **CATENA** (now **THREE OAKS**)
- **HISTORIC ARCHITECTURE –** **MATTSON, ALEXANDER & ASSOCIATES**
- **UTILITIES –** **HINDE ENGINEERING**
- **RIGHT OF WAY (DEIS) –** **HDR**
- **QUANTITATIVE ICE –** **BAKER**
- **BIOLOGICAL ASSESSMENT T&E SPECIES –** **THREE OAKS**
- **ARCHAEOLOGY –** **COASTAL CAROLINA RESEARCH** (now **COMMONWEALTH HERITAGE GROUP**)
- **RIGHT OF WAY (FEIS) –** **CAROLINA LAND ACQUISITION**
- **PLAN OF FINANCE –** **PFM**

Subconsultants for permits, hydrology, and right of way plans:

- **HYDROLOGY –** **SUNGATE DESIGN GROUP**
- **HYDROLOGY –** **ECOLOGICAL ENGINEERING**
- **PERMITS –** **ECOLOGICAL AND/OR SUNGATE**

NCTA Advisors and Vendors:

- **PROJECT DELIVERY –** **DAWSON & ASSOCS.**
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PROJECT STATUS SHEET

PROJECT DESCRIPTION

The purpose of this project is to provide a reliable travel time option by constructing one Express Lane in each direction on I-485 (Charlotte Outer Loop) from I-77 to US 74 (Independence Boulevard), for approximately 17 miles, and other improvements.

CONTRACTOR: BLYTHE CONSTRUCTION

LEAD DESIGNER: WSP

TRAFFIC & REVENUE: STANTEC

** see page 2 for further information

IMPORTANT FACTS

Contract Award: October 2018

Projected Cost: \$346M (as bid)

Type of Tolling: Express Lanes

Express Lanes Open to Traffic: TBD

KEY NCTA ACTIVITIES

Listed below are key activities being conducted by NCTA in the next six months in order to bring the project online.

PLANNING, DESIGN, CONSTRUCTION

- Coordination ongoing with Design-Build Unit, CRTPO and municipal partners, and Division 10 as needed
- Review design plan and construction submittals for ITS, Tolling, Signing, and Pavement Marking, as needed
- Prepare for toll equipment integration and asset management

FINANCE

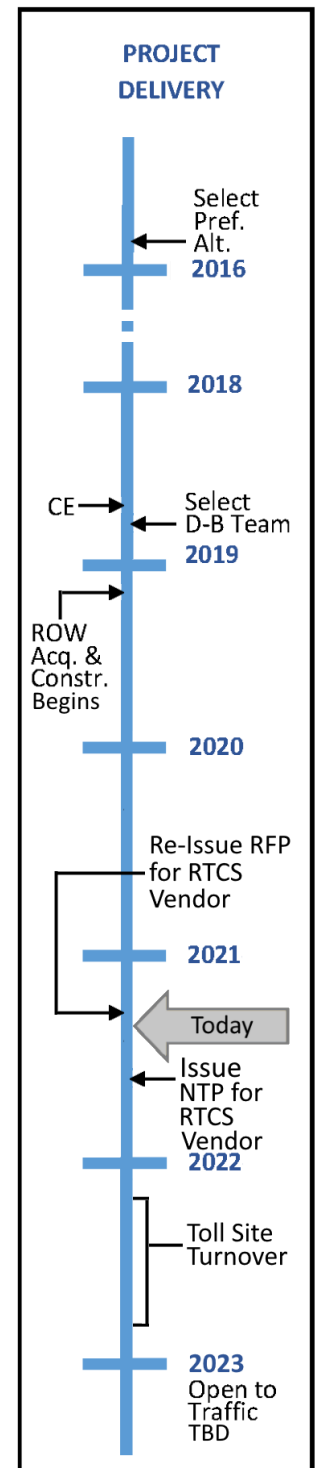
- Complete Operations & Maintenance Model

ALL-ELECTRONIC TOLLING

- Continue planning for Toll Collection System (TCS) contracts
- Execute re-advertised (April 14, 2021) Roadside TCS vendor procurement

OPERATIONS

- Prepare for Express Lane Operations by coordinating with NCDOT Division 10 and local transportation management centers



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P & D Consultants:

- LEAD – **RS&H**
- TRAFFIC ANALYSIS – **RS&H**
- AIR QUALITY ANALYSIS – **VHB**
- NATURAL RESOURCES – **ENVIRONMENTAL SERVICES, INC.**
- TRAFFIC FORECAST – **CLEARBOX**
- TRAFFIC OPERATIONS ANALYSIS – **PATRIOT ENGINEERING**

Design-Build Scope & Concept Preparation:

- SIGNING – **HNTB**
- ITS & AET – **ATKINS**

Design-Build Team:

- GEOTECH – **TERRACON**
- ITS, ROADWAY, STRUCTURES DESIGN – **DRMP**
- ITS AND AET CONSTRUCTOR - **TCD**
- RIGHT OF WAY ACQUISITION – **TELICS**
- UTILITY COORDINATION – **UCC**
- MOT, SIGNING & PAVEMENT MARKING – **PROGRESSIVE DESIGN GROUP**

Representing Division 10:

- CONSTRUCTION ENGINEERING & INSPECTION – **SEPI, SUMMIT, RK&K, CECS**
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PROJECT STATUS SHEET

PROJECT DESCRIPTION

The project would widen and add Express Lanes to Independence Boulevard (US 74) from west of Idlewild Road in Charlotte to I-485 in Matthews, a distance of approximately 6.4 miles. This project is a part of the US 74 Express Lanes system and is also part of an overall Express Lanes network that includes Express Lanes on I-77 and I-485.

P & D: VHB **

TRAFFIC ANALYSIS: AECOM

TRAFFIC & REVENUE: STANTEC

** see page 2 for further information

IMPORTANT FACTS

Contract Let: TBD*

Projected Cost: \$1.0B (STIP)**

Open to Traffic: TBD*

Type of Tolling: Express Lanes

*Contract let and construction dates TBD based on Corridor Implementation Strategy (funding programmed FY 2023 to Post Year)

**Funding includes right of way, utilities and construction for U-2509 and U-6103

KEY NCTA ACTIVITIES

Listed below are key activities being conducted by NCTA in the next six months in order to bring the project online.

PLANNING/DESIGN/CONSTRUCTION

- Support the Project Management Unit on project development efforts, including the preparation of the final environmental document (expected to be a Finding of No Significant Impact)
- Continue coordination with stakeholders
- Coordinate with adjacent Express Lane project (U-6103)
- Participate in the development of a Corridor Implementation Strategy for the US 74 Express Lanes projects (U-6103 and U-2509)
- Participate in the value engineering study being conducted by NCDOT

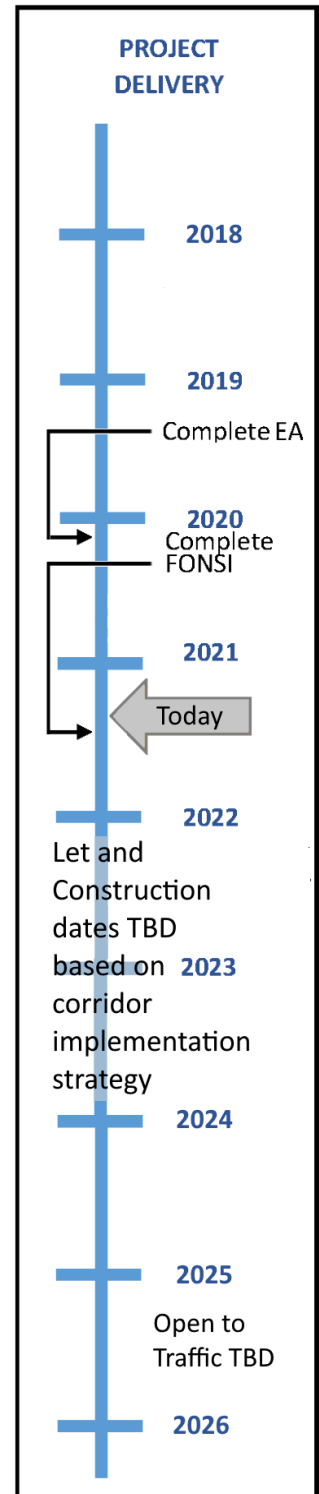
FINANCE

- Refine Operations & Maintenance Model as needed
- Refine joint U-6103/U-2509 Investment Grade Traffic & Revenue (T&R) Study as needed
- Update cost estimates (Capital, Operations and Maintenance)

ALL-ELECTRONIC TOLLING

- No activities anticipated

(see Page 2)



PROJECT STATUS SHEET

OPERATIONS

- Prepare for Express Lane Operations by coordinating with NCDOT Division 10 and local transportation management centers

Additional P & D Subconsultants:

- PRELIMINARY HYDRAULIC ANALYSIS AND REPORT – [SUNGATE DESIGN GROUP](#)
 - ICI WATER QUALITY ASSESSMENTS, T AND E SPECIES SURVEYS, STREAM AND WETLAND DELINEATIONS – [CATENA](#) (now [THREE OAKS](#))
 - SURVEYING (STREAM AND WETLAND DELINEATIONS) – [TGS ENGINEERS](#)
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PROJECT STATUS SHEET

PROJECT DESCRIPTION

The project would widen Independence Boulevard (US 74) in Charlotte from I-277 to just west of Idlewild Road to allow for two-way Express Lanes. This project supersedes U-5526A, which proposed to convert the existing bus lanes to a reversible Express Lane from I-277 to Wallace Ln.

P & D: RS&H (U-6103)

NATURAL RESOURCES: THREE OAKS

DESIGN: RS&H/CDM SMITH

TRAFFIC ANALYSIS: RS&H/THREE OAKS

TRAFFIC & REVENUE: STANTEC

IMPORTANT FACTS

Contract Let: TBD*

Projected Cost: \$95.3M (STIP)

Open to Traffic: TBD*

Type of Tolling: Express Lanes

*Contract let and construction dates TBD based on Corridor Implementation Strategy (funding programmed FY 2023 to Post Year)

KEY NCTA ACTIVITIES

Listed below are key activities being conducted by NCTA in the next six months in order to bring the project online.

PLANNING/DESIGN/CONSTRUCTION

- Prepare planning preliminary design including 2 alternatives for the Albemarle Road direct connector interchange
- Prepare build traffic analysis
- Continue coordination with CATS Silver Line team and other stakeholders
- Coordinate with adjacent Express Lane project (U-2509)
- Participate in the development of a Corridor Implementation Strategy for the US 74 Express Lanes projects (U-6103 and U-2509)

FINANCE

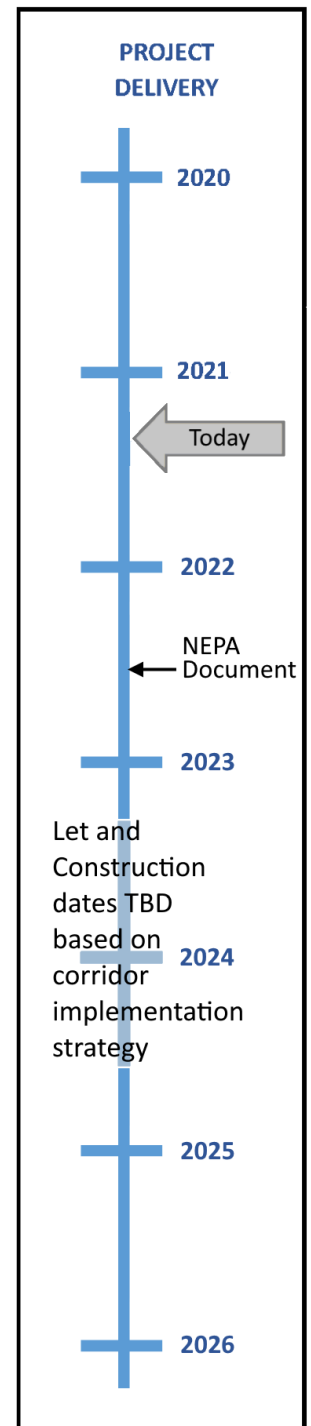
- Refine Operations & Maintenance Model as needed
- Refine joint U-6103/U-2509 Investment Grade Traffic & Revenue (T&R) Study as needed
- Update cost estimates (Capital, Operations and Maintenance)

ALL-ELECTRONIC TOLLING

- No activities anticipated

OPERATIONS

- No activities anticipated



PROJECT STATUS SHEET

PROJECT DESCRIPTION

The proposed project calls for transportation improvements in the Currituck Sound area with focus on the consideration of a Mid-Currituck Bridge. The proposed action is a seven-mile long toll project including a two-lane bridge that spans Currituck Sound connecting the Currituck County mainland with its Outer Banks, and a separate two-lane bridge that spans Maple Swamp on the Currituck County mainland connecting Aydlett to US 158, in Currituck County.

P & D: WSP/PB **

TRAFFIC ANALYSIS: WSP/PB

TRAFFIC & REVENUE: STANTEC

** see page 2 for further information

IMPORTANT FACTS

Contract Let: TBD

Projected Cost: \$492M (per STIP)

Open to Traffic: TBD

Type of Tolling: Variable

KEY NCTA ACTIVITIES

Listed below are key activities being conducted by NCTA in the next six months in order to bring the project online.

PLANNING/DESIGN/CONSTRUCTION

- Continue to support the activities related to the legal challenge on the environmental document
- Continue coordination with environmental agencies and develop environmental permit applications
- Determine procurement process for construction contract
- Likely to delay design-build letting from October 2021 schedule

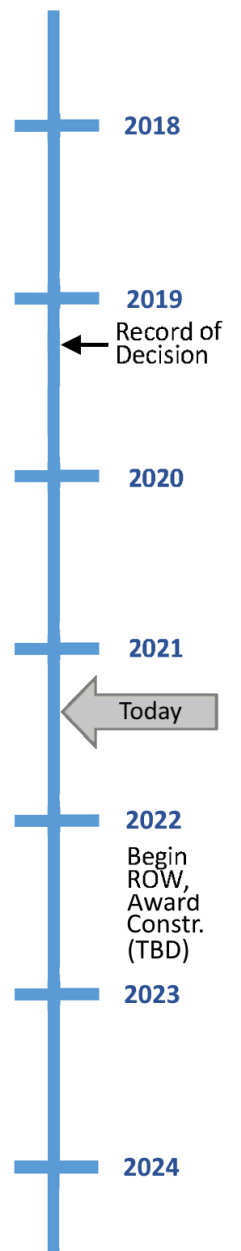
FINANCE

- Update, as appropriate, Investment Grade Traffic & Revenue (T&R) Study with Stantec to support future project finance efforts
- Update cost estimates (Capital, Operations and Maintenance)
- Update Plan of Finance with PFM (NCTA financial advisor)

ALL-ELECTRONIC TOLLING

- No activities anticipated

PROJECT DELIVERY



PROJECT STATUS SHEET

Additional P & D Subconsultants:

- **HURRICANE EVACUATION MODELING – ATKINS**
- **NATURAL RESOURCES – CZR**
- **PUBLIC INVOLVEMENT – FITZGERALD & HALLIDAY, INC.**
- **PLAN OF FINANCE – PFM**

Preliminary Engineering:

- **ROADWAY DESIGN PLANS – LOCHNER**
 - **HYDRAULIC DESIGN – WETHERILL**
 - **GEOTECHNICAL DESIGN – GOLDER**
 - **COASTAL & HYDRAULIC ENGINEERING, ENVIRONMENTAL MITIGATION, PERMIT APPLICATIONS – MOFFATT & NICHOL**
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