

PROJECT STATUS SHEET

PROJECT DESCRIPTION

The purpose of this project is to convert the bus lanes in the median of Independence Boulevard (U.S. 74) in Charlotte from I-277 to Wallace Lane to Express Lanes. This conversion will include the bus lanes that currently exist between I-277 and Albemarle Road (NC 27), as well as the bus lanes currently being constructed under STIP Project U-209B.

P & D: TGS ENGINEERS

NATURAL RESOURCES: KIMLEY-HORN

DESIGN: ATKINS/HNTB

TRAFFIC ANALYSIS: AECOM

TRAFFIC & REVENUE: STANTEC

IMPORTANT FACTS

Contract Let: November 2017

Projected Cost: \$28.8M (Total)

Open to Traffic: Late 2018

Type of Tolling: Express Lanes

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

- Conduct and complete Final Design of Intelligent Transportation System (ITS), Gate Control System, and All-Electronic Toll (AET) (by mid 2017)
- Coordinate with NCDOT on the civil & signing design
- Coordinate with other ongoing Express Lane projects in the Charlotte metro area

FINANCE

- Update State Transportation Improvement Plan (STIP) with new project costs
- Refine Operations & Maintenance Model if needed
- Initiate Level II Traffic & Revenue (T&R) Study as a part of the U-2509 project which extends Express Lanes east to I-485

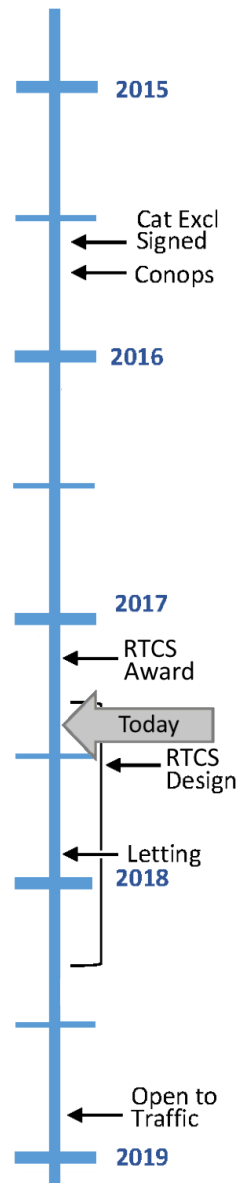
ALL-ELECTRONIC TOLLING

- Produce, negotiate and execute Extra Work Orders for Back Office System (BOS), and Toll Operations (OPS)
- Produce, negotiate and execute contracts for Roadside Toll Collection System (RTCS) & Electronic Toll Collection System (ETCS)
 - Contracts executed early March 2017

OPERATIONS

- Prepare for Express Lane Operations by coordinating with NCDOT Division 10 and the local transportation management centers
- Plan for Charlotte area tolling storefront

PROJECT DELIVERY



PROJECT STATUS SHEET

PROJECT DESCRIPTION

The proposed project would widen and add Express Lanes to Independence Boulevard (US 74) from Wallace Lane in Charlotte to I-485 in Matthews, a distance of approximately 6.3 miles. This project is the second phase of the US 74 Express Lanes system and is also part of an overall Express Lanes network that includes planned 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 Award: Fiscal Year 2020

Projected Cost: \$406M (STIP)

Open to Traffic: TBD

Type of Tolling: Express Lanes

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 Development and Environmental Analysis (PDEA) Unit on developing alternatives for study
- Support the PDEA Unit on preparation of the Environmental Assessment (EA)
- Participate in Stakeholder Meetings and Public Meetings

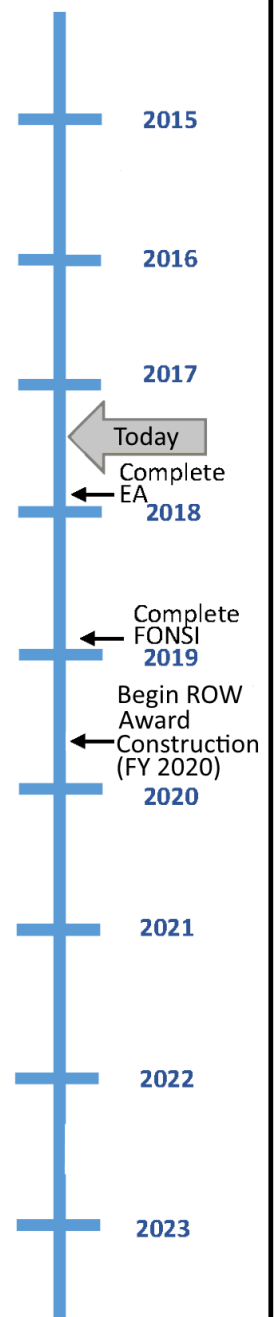
FINANCE

- Develop Traffic & Revenue (T&R) Study
- Prepare cost estimates (Capital, Operations and Maintenance)
- Develop Preliminary Plan of Finance with PFM (NCTA financial advisor)

ALL-ELECTRONIC TOLLING

- No activities anticipated

PROJECT DELIVERY



PROJECT STATUS SHEET

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

NCDOT and NCTA have undertaken an upgrade to the existing SB exit ramp from Toll NC-540 to NC 55 Bypass east of the Old Holly Springs Apex Road proposed interchange. The project consists of approximately 1,000' of ramp plan and profile upgrades in the southwest quadrant of the existing interchange of NC 55 Bypass and Toll NC-540. The project will improve the ramp sight distance and increase the radius of the curve at the foot of the ramp, thereby improving motorist safety. The Intelligent Transportation System (ITS) trunkline and an ITS device will be impacted therefore ITS plans will be part of the package.

DESIGN: HNTB

CONTRACTOR: BLYTHE CONSTRUCTION, INC.

IMPORTANT FACTS

Construction to Start: April 2016

Project Cost: \$1,307,000

Open to Traffic: November 2016

Type of Tolling: N/A

Completion: Mid-2017

KEY NCTA ACTIVITIES

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

DESIGN/CONSTRUCTION

- Complete punchlist
- Complete R-2635A,B,C Warranty Work
- Close out project

FINANCE

- No activities anticipated

ALL-ELECTRONIC TOLLING

- No activities anticipated

PROJECT DELIVERY

2015

Design
NTP

2016

Field Insp.
Plans

Sealed Plans
Let by
Division

New Ramp
Open to
Traffic

2017

R-2635
Warranty
Work

Today

Complete

2018

PROJECT STATUS SHEET

PROJECT DESCRIPTION

The purpose of this project is to construct an expressway extending nearly 20 miles from US 74 near I-485 in Mecklenburg County to US 74 between the towns of Wingate and Marshville in Union County. The four-lane divided facility will have fixed toll rates at seven mainline zones.

CONTRACTOR: MONROE BYPASS CONSTRUCTORS**

CEI: SUMMIT

TRAFFIC & REVENUE: CDM SMITH

P & D: ATKINS **

** see page 2 for further information

IMPORTANT FACTS

Construction Started: May 2015

Projected Cost: \$731M

Open to Traffic: November 2018

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.

DESIGN/CONSTRUCTION

- Review of design submittals for All-Electronic Tolling (AET) infrastructure, Intelligent Transportation Systems (ITS), Signing & Aesthetics
- Coordinate with Roadside Environmental Unit (REU) on approach to landscaping and procurement strategy
- Attend meetings to monitor progress and address toll-related concerns
- Construction of AET toll sites is well underway
- Update Proj. Mgmt. Plan (for Federal Highway Administration) as required

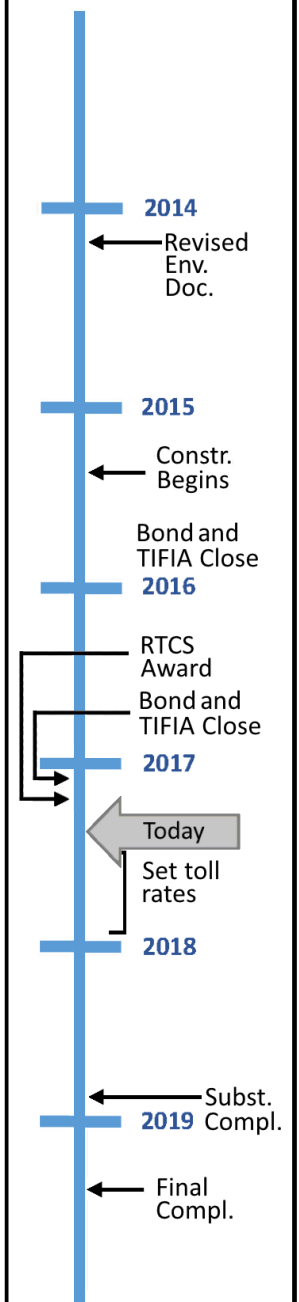
FINANCE

- Complete financial reporting documents as required:
 - Quarterly Construction Progress Report (for Wells Fargo)
 - Consulting Engineer's Report (for bond rating agencies)
 - Annual Financial Plan Update

ALL-ELECTRONIC TOLLING

- Award Request for Proposal (RFP) for Roadside Toll Collection System (RTCS)
- Begin preparing for other toll-related contract modifications in 2016:
 - Back Office System (BOS)
 - Electronic Toll Collection System (ETCS)
- Toll Operations (OPS) – including planning for Monroe area toll storefront
- Implement Wrong-Way Detection & Notification system

PROJECT DELIVERY



Additional Design-Build Team Information:

- **JOINT VENTURE PARTNERS:** **UNITED INFRASTRUCTURE GROUP, ANDERSON-COLUMBIA, BOGGS PAVING**
- **LEAD DESIGNER – RK&K**
- **SECONDARY ROADWAY DESIGNER – MULKEY (now CALYX)**
- **SECONDARY STRUCTURAL DESIGNERS – SIMPSON ENGINEERING, KCI, MULKEY (now CALYX), MORRIS ISRAELNAIM**
- **SIGNING & ITS DESIGN – RKK, DRMP**
- **STRUCTURAL CONTRACTORS – DELLINGER, DANE, SLOAN, UNITED, MOUNTAIN CREEK**
- **ROADWAY CONTRACTOR – ES WAGNER, VECELLIO AND GROGAN, SLOAN**
- **ELECTRICAL CONTRACTOR – T&H ELECTRIC**
- **GEOTECH AND GEOENVIRONMENTAL, PAVEMENT DESIGN – AMEC-FOSTER-WHEELER, F&ME**
- **PERMITTING & ENVIRONMENTAL - THE CATENA GROUP (now THREE OAKS)**
- **SYSTEMS INTEGRATION – T&H ELECTRIC, PROTRONIX**

Additional P & D Subconsultants:

- **INDIRECT AND CUMULATIVE EFFECTS ASSESSMENT, COST ESTIMATION – HNTB**
- **NATURAL RESOURCES – ENVIRONMENTAL SERVICES, INC.**
- **HISTORIC ARCHITECTURAL RESOURCES SURVEY – MATTSON, ALEXANDER, AND ASSOCIATES**
- **PRELIMINARY TRAFFIC AND REVENUE STUDY AND TRAFFIC FORECASTS - WILBUR, SMITH AND ASSOCIATES (now CDM SMITH)**
- **TRAFFIC FORECASTS – MARTIN/ALEXIOU/BRYSON (now VHB)**
- **RELOCATION REPORTS – CAROLINA LAND ACQUISITION**
- **INDIRECT AND CUMULATIVE EFFECTS – BAKER**
- **CULTURAL RESOURCES – NEW SOUTH ASSOCIATES**
- **BIOLOGICAL ASSESSMENT FOR ENDANGERED SPECIES - THE CATENA GROUP (now THREE OAKS)**
- **RIGHT OF WAY ACQUISITION: HNTB, CAROLINA LAND ACQUISITIONS, ATKINS, PROFESSIONAL PROPERTY SERVICES**

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.

P & D: **RS&H**

TRAFFIC ANALYSIS: **RS&H**

TRAFFIC & REVENUE: **STANTEC**

** see page 2 for further information

IMPORTANT FACTS

Contract Award: FY 2018 (anticipated)

Projected Cost: \$215.6M (from STIP)

Open to Traffic: 2020

Type of Tolling: Express Lanes

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

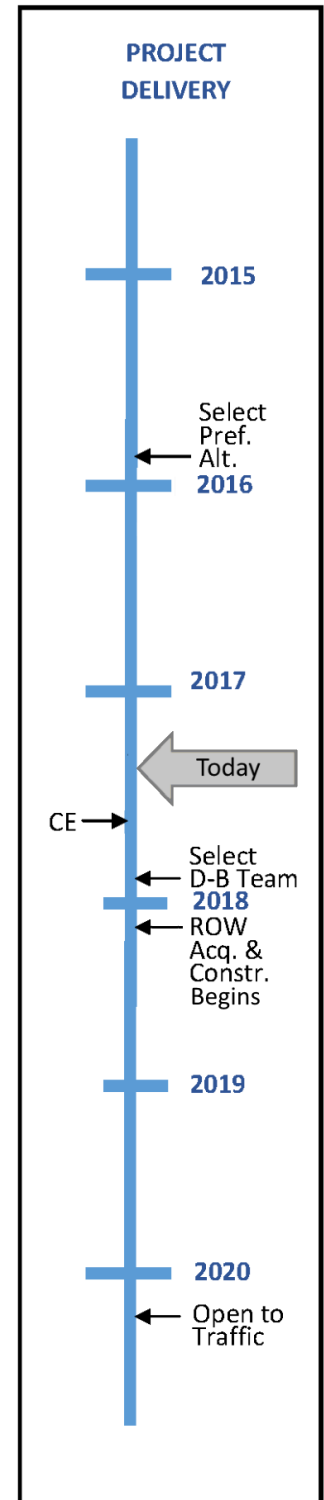
- Coordinate with PDEA, Roadway Design, Design-Build Unit, Congestion Management, and Division 10
- Attend stakeholder and public involvement meetings as needed
- Finalize Concept Plans for Signing, Intelligent Transportation Systems (ITS), and All-Electronic Tolling (AET)
- Revise/Finalize Design/Build Scopes of Work for AET and ITS
- Update NCTA AET Standard Drawings for Express Lanes
- Prepare and coordinate project cost estimation for NCDOT
- Begin work on Concept of Operations

FINANCE

- Level II Traffic & Revenue (T&R) Study (final draft completed)
- Complete Operations & Maintenance Model following T&R

ALL-ELECTRONIC TOLLING

- Complete estimates for Toll Collection System (TCS) contracts as a part of the Tolling Concept Plans



PROJECT STATUS SHEET

Additional P & D Subconsultants:

- **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**
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PROJECT STATUS SHEET

PROJECT DESCRIPTION

The purpose of the project is to widen I-77 to ten lanes by constructing Express Lanes from I-485 (Exit 1) to I-277/NC 16 (Brookshire Freeway) (Exit 11). The total project length is 9.6 miles.

P & D: HDR

TRAFFIC ANALYSIS: TBD

TRAFFIC & REVENUE: TBD

IMPORTANT FACTS

ROW Acquisition: 2024

Projected Cost: \$1.2B

Construction Begins: 2027

Type of Tolling: 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

- Coordinate with PDEA and Division 10 once project is re-started in planning process
- Attend stakeholder and public involvement activities as needed

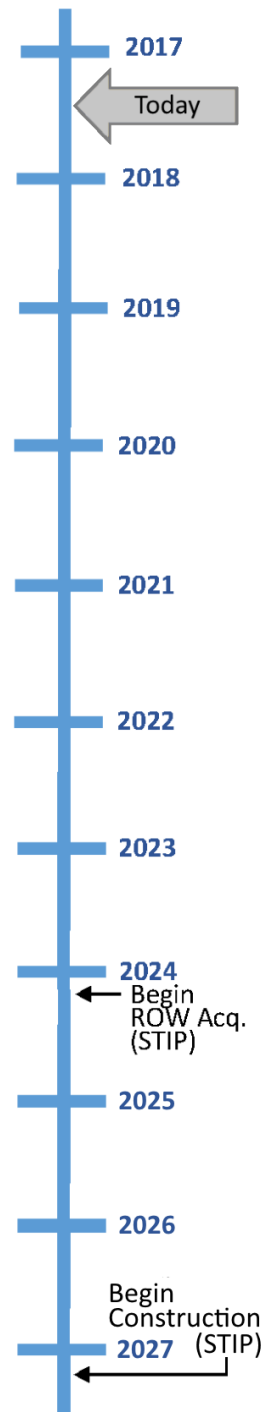
FINANCE

- No activities anticipated

ALL-ELECTRONIC TOLLING

- No activities anticipated

PROJECT DELIVERY



PROJECT STATUS SHEET

PROJECT DESCRIPTION

The purpose of this project is to add capacity to the corridor between I-277 (Exit 11) in Charlotte (Mecklenburg County) and N.C. 150 (Exit 36) in Iredell County (26 miles). This project offers drivers the option of using the existing general purpose lanes for free, or paying a toll to enter and exit the I-77 Express Lanes at various points.

DEVELOPER: I-77 MOBILITY PARTNERS **

CONTRACTOR: SUGAR CREEK CONSTRUCTION

CEI: RK&K

P & D: ATKINS/RK&K **

**** see page 2 for further information**

IMPORTANT FACTS

Construction Started: November 16, 2015

Projected Cost: \$665M

Open to Traffic: 1st segment March 2018,
Early 2019 for all 3 segments

Type of Tolling: Express Lanes

KEY NCTA ACTIVITIES

Listed below are key activities currently being conducted by NCTA in order to bring the project on-line.

CONSTRUCTION

- Participating in project meetings with I-77 Mobility Partners (I77MP)
- Conducting reviews of All-Electronic Tolling (AET) System, Intelligent Transportation System (ITS), Pavement Marking and Signing plans

FINANCE

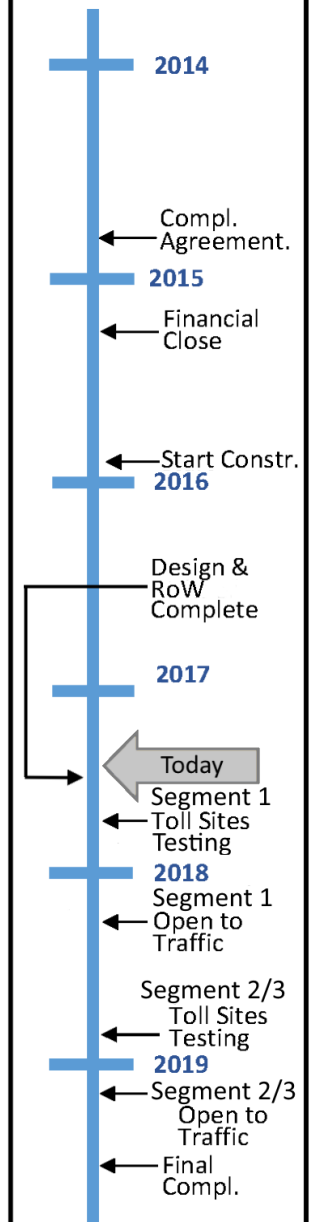
- Determining Operations and Maintenance (O&M) costs for processing Electronic Toll Collection (ETC) and Bill by Mail (BBM) video transactions
- Cost estimate for staffing for Charlotte/I-77 area NC Quick Pass Storefront

ALL-ELECTRONIC TOLLING

- Continue preparation of toll-related contract modifications in 2017:
 - Back Office System (BOS)
 - Interface Control Document and Processing Business Rules between I-77 and BOS (95% complete)
 - Electronic Toll Collection System (ETCS)
 - NCTA witnessed Factory Acceptance Tests (FAT) for the roadside toll collection system last week in March; ITS FAT in May

(see Page 2)

PROJECT DELIVERY



PROJECT STATUS SHEET

OPERATIONS

- Toll Operations – Determining staff requirements for storefront
- Coordination with Developer for Charlotte/I-77 area NC Quick Pass Storefront for customer payments and NC Quick Pass accounts
 - Co-located in I77MP Admin. & Maint. Bldg (to open Oct. 2017)
- Developing system communications requirements I77MP to NCTA CSC

Additional Developer Team Information:

- PRIMARY DEVELOPER: **CINTRA INFRAESTRUCTURAS, SA**
- JOINT VENTURE PARTNERS: **FERROVIAL AGROMAN, S.A. & W.C. ENGLISH, INC.**
- LEAD DESIGNER – **LOUIS BERGER**
- FIELD SYSTEMS INTEGRATOR – **KAPSCH**
- FIELD SYSTEMS CIVIL CONSTRUCTION – **GANNETT FLEMING**
- FIELD SYSTEMS INSTALLATION – **WORLD FIBER**
- GEOTECH, PAVEMENT DESIGN, QUALITY CONTROL INSPECTION AND TESTING – **PSI**
- RIGHT OF WAY ACQUISITION – **AMEC-FOSTER-WHEELER**
- DEVELOPER'S COMMISSIONING AGENT - **KILAN SOLUTIONS**

Additional P & D Subconsultants:

- NOISE ANALYSIS, PRELIM. HYDRAULIC ANALYSIS, NATURAL RESOURCES, TRAFFIC OPERATIONS – **RK&K**
- AIR QUALITY ANALYSIS – **KIMLEY-HORN AND ASSOCIATES**
- HISTORIC ARCHITECTURAL RESOURCES SURVEY – **URS** (now **AECOM**)
- FINANCIAL PLAN AND INVESTMENT STRATEGIES – **PFM GROUP**

Other:

- NCDOT CONTRACT REVIEW CONSULTANT – **MERCATOR ADVISORS LLC**

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 in Knightdale, completing the 540 Outer Loop around the greater Raleigh area. This proposed new location, limited-access, tolled highway would extend approximately 27 miles.

IMPORTANT FACTS

Construction to Start: FY 2020

Projected Cost: \$2.2B

Open to Traffic: TBD

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

- Support the Project Development and Environmental Analysis (PDEA) Unit on preparing the Final Environmental Impact Statement (FEIS)

FINANCE

- Initiated Traffic & Revenue (T&R) Study with CDM Smith
- Prepare cost estimates (Capital, Operations and Maintenance)
- Develop Preliminary Plan of Finance with PFM (NCTA financial advisor)

ALL-ELECTRONIC TOLLING

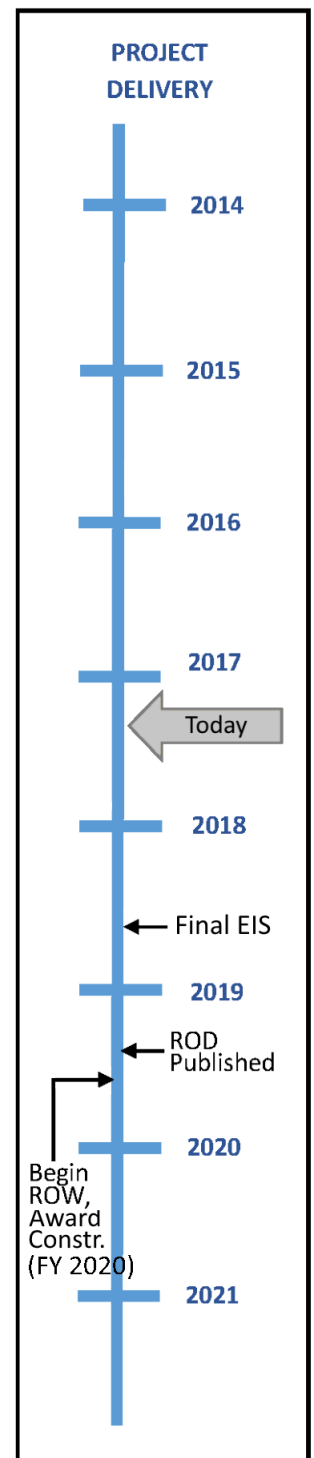
- No activities anticipated

P & D: **LOCHNER ****

TRAFFIC ANALYSIS: **HNTB**

TRAFFIC & REVENUE: **CDM SMITH**

** see page 2 for further information



PROJECT STATUS SHEET

Additional P & D Subconsultants:

List of subconsultants used to date:

- **BRANDING & LEP SERVICES – SPRINGBOARD/EYDO** (no longer in business)
- **NATURAL SYSTEMS – MULKEY** (now **CALYX**)
- **HYDROLOGY (PRELIMINARY) – MULKEY** (now **CALYX**)
- **MUSSEL SPECIES – CATENA** (now **THREE OAKS**)
- **HISTORIC ARCHITECTURE – MATTSON & 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**

Potential future subconsultants for permits, hydrology, and right of way plans:

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

PROJECT DESCRIPTION

The Veridea Parkway interchange project (also known as "Access 540") will add a new interchange to the NCTA's Triangle Expressway (Toll NC 540) in southwest Wake County, near the southern end of the toll road. The interchange will include two new ramp toll zones.

CONTRACTOR: BLYTHE CONSTRUCTION, INC.

CEI: S&ME/STEWART

P & D: HNTB

** see page 2 for further information

IMPORTANT FACTS

Contract Award: June 2015

Projected Cost: \$24.4M (Total)

Open to Traffic: March 2017 (new ramps/lanes)

Type of Tolling: Fixed tolls

Completion: June 2017

KEY NCTA ACTIVITIES

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

DESIGN/CONSTRUCTION

- Attend design meetings to monitor project progress and address toll and aesthetic related concerns
- Track/inspect ITS/AET construction activities; AET sites are operational and collecting tolls
- Coordinate with NC-55 Bypass SB ramp reconstruction and warranty work

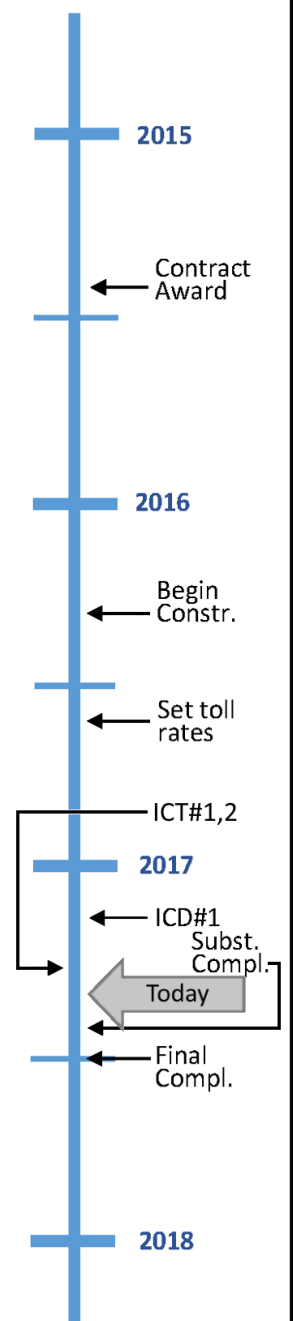
FINANCE

- Update Operations & Maintenance Model if needed

ALL-ELECTRONIC TOLLING

- Monitor roadside tolling at new and modified toll sites
- Monitor Back Office system modifications

PROJECT DELIVERY



PROJECT STATUS SHEET

Additional P & D Consultants:

- **NATURAL RESOURCES – BAKER**

Additional Design-Build Team Information:

- **DESIGNER – KIMLEY-HORN & ASSOCIATES**
 - **ITS AND SIGNING CONTRACTOR – TRAFFIC CONTROL DEVICES**
 - **UTILITY COORDINATION – TELICS**
 - **ENVIRONMENTAL – ESP**
 - **AET SITES – CALLIS**
-

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

Construction Award: FY 2018

Projected Cost: \$489M (per STIP)

Open to Traffic: December 2022

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

- Support the Project Development and Environmental Analysis (PDEA) Unit on completing the Reevaluation Report of the Environmental Impact Statement (EIS) and Record of Decision
- Determine procurement process for construction contract

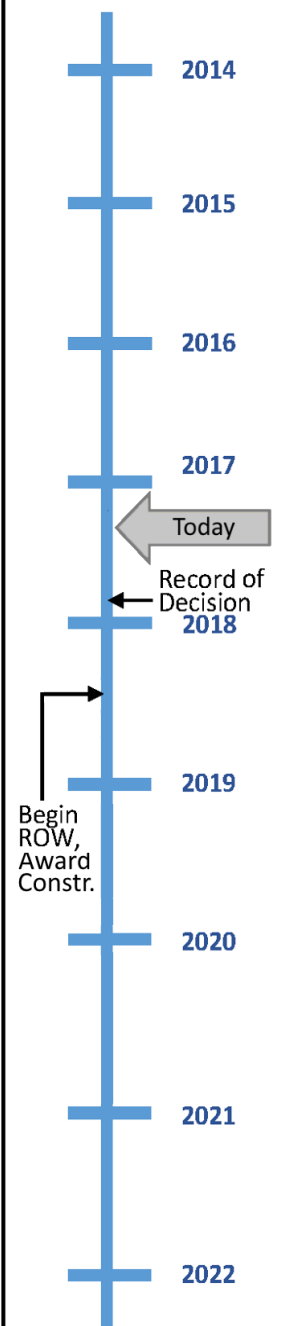
FINANCE

- Develop Investment Grade Traffic & Revenue (T&R) Study with Stantec
- 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 – MOFFAT & NICHOL**
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PROJECT STATUS SHEET

PROJECT DESCRIPTION

The purpose of the project is to extend Morrisville Parkway and construct an interchange with Triangle Expressway (Toll NC 540) in Wake County to provide increased connectivity and access. Planning and Design were managed by the Town of Cary in coordination with NCDOT. Project will be let to contract by NCDOT. NCTA is participating in funding for U-5315B (interchange) only.

P & D: RK&K

DESIGN: RK&K

CONTRACTOR: TO BE DETERMINED

** see page 2 for further information

IMPORTANT FACTS

Construction Start: Early 2018

Projected Cost: \$22.8M (U-5315B)

Open to Traffic: 2020

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

- Coordinate with Town of Cary, Division 5, and Local Programs Management Office for Right of Way acquisition and other municipal agreements as needed
- Review design submittals for Roadway, Signing, ITS, AET and WZTC

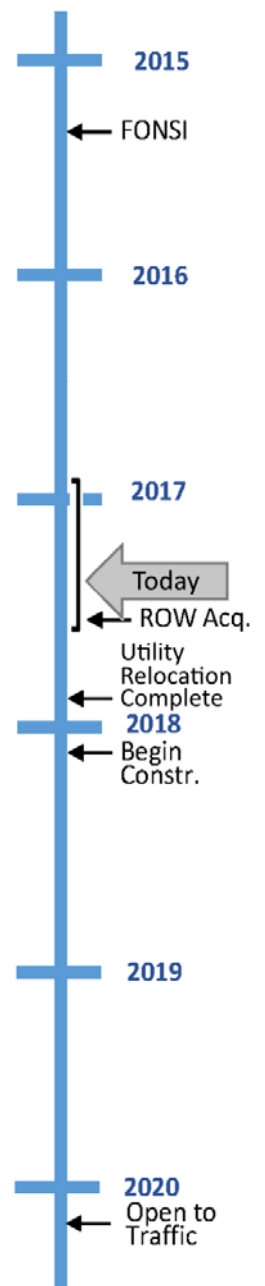
FINANCE

- No activities anticipated

ALL-ELECTRONIC TOLLING

- Begin preparation for other toll-related contract modifications:
 - Roadside Toll Collection System (RTCS)
 - Back Office System (BOS)
 - Electronic Toll Collection System (ETCS)
 - Toll Operations (OPS)

PROJECT DELIVERY



PROJECT STATUS SHEET

Additional P & D Subconsultants:

- **EA & FONSI – VHB**
- **GEOTECHNICAL – FALCON**
- **USACE 404 PERMIT: URS (now AECOM)**
- **ROW ACQUISITION – RIGHT OF WAY CONSULTANTS**
- **SURVEYS, PLATS, LEGAL DESCRIPTIONS – ESP**