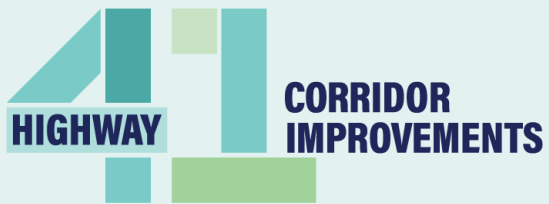


CAGE Meeting

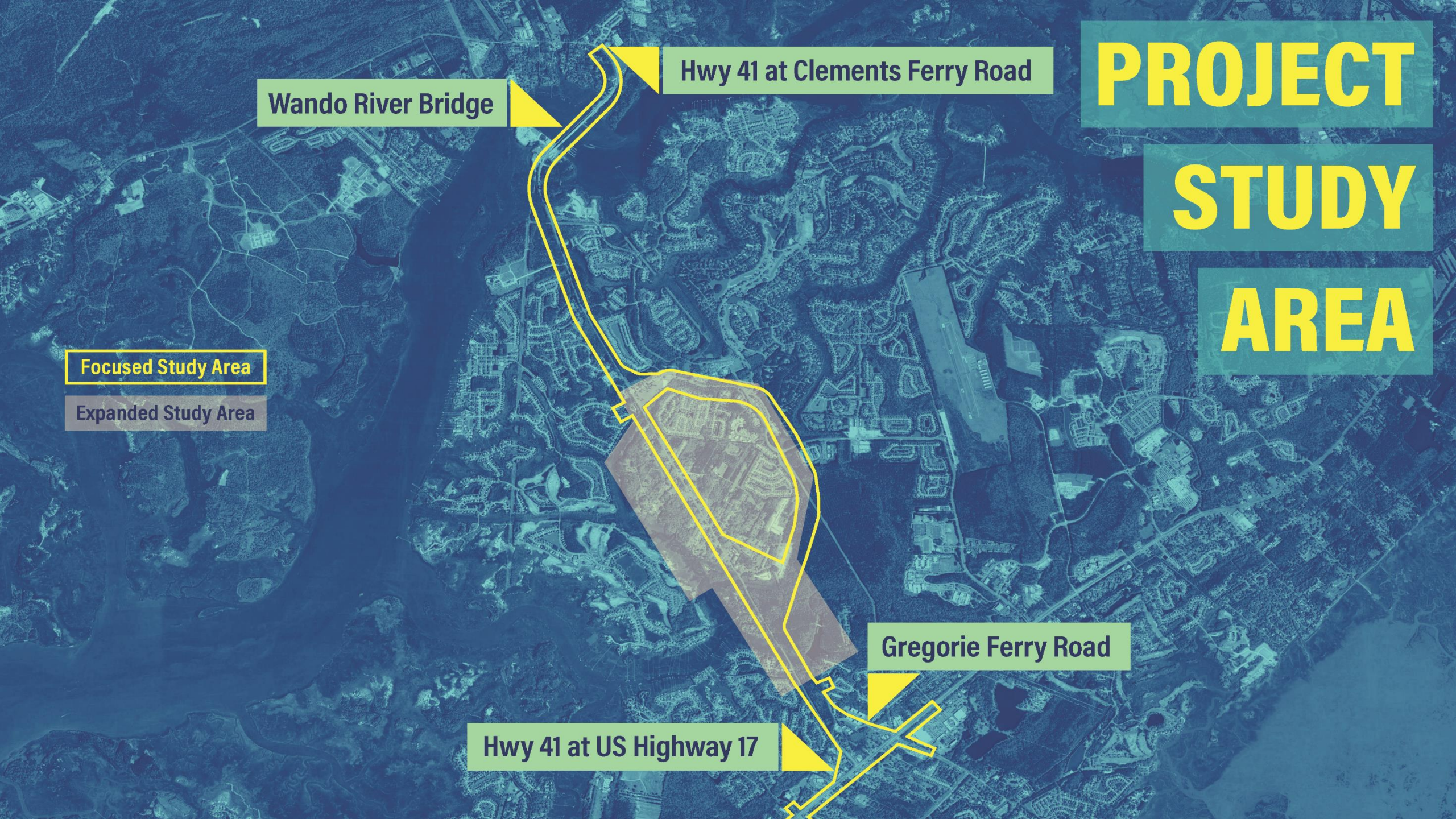
August 1, 2019



The goals of today's meeting are to:

- Introduce you to the project and where we are in the environmental and alternatives process.
- Gather your input and feedback.
- Provide information on next steps and the fall public meeting.

PROJECT STUDY AREA



Wando River Bridge

Hwy 41 at Clements Ferry Road

Focused Study Area

Expanded Study Area

Gregorie Ferry Road

Hwy 41 at US Highway 17

Project Goals:

- Improved capacity along the corridor.
- Improved safety for bicyclists, pedestrians and commuters.
- Improved capacity at the intersection of Highway 41 and Highway 17.
- The completion of the Gregory Ferry Road connector.

Project Purpose & Need:

- The primary purpose of the proposed SC 41 Corridor Improvements project is to **reduce traffic congestion within the SC 41 corridor** to accommodate future traffic projections.
- The secondary purposes of the proposed SC 41 Corridor Improvements project are to **enhance safety** throughout the corridor, **improve transportation system and community connections**, and **provide bicycle and pedestrian accommodations**, while **minimizing community and environmental impacts**.
- The proposed project is needed to **address anticipated local and regional growth**, increased traffic congestion, **safety and emergency response concerns**, and inadequate interconnections of transportation modes, including pedestrian and bicycle facilities.

Project Phases

WE ARE HERE!

PHASE 1

- Introduction of the Project Letter of Intent
- Traffic Analysis and Field Data Collection
- Development of Conceptual Alternatives
- Determine NEPA Class of Action

PHASE 2

- Perform preliminary alternatives development
- Conduct alternatives analysis
- Identify proposed alternative(s)
- Environmental Assessment or Impact Statement & Completion of NEPA process

PHASE 3

- Design and Permitting
- Procurement

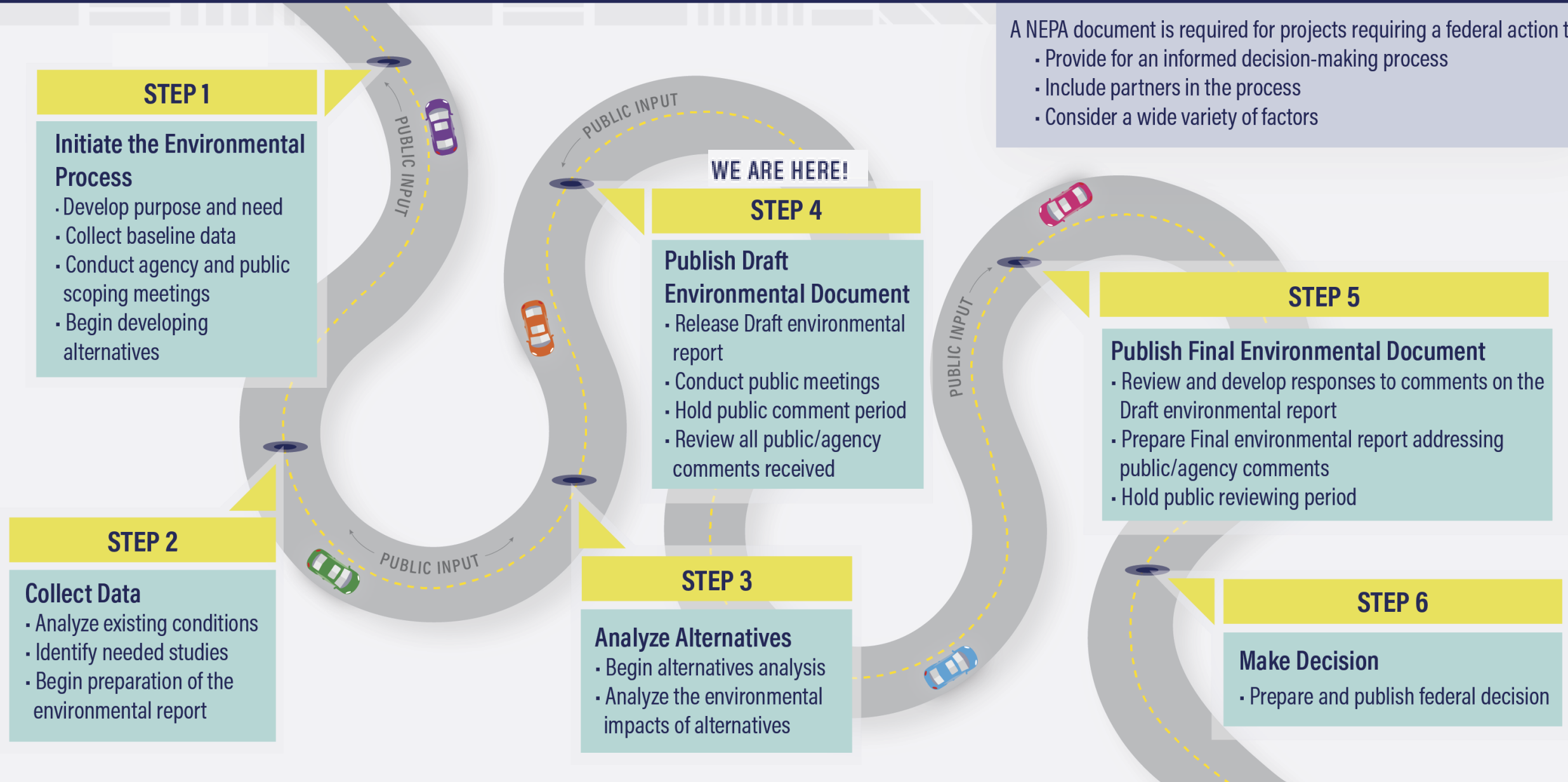
PHASE 4

- Construction

National Environmental Policy Act (NEPA)

A NEPA document is required for projects requiring a federal action to:

- Provide for an informed decision-making process
- Include partners in the process
- Consider a wide variety of factors

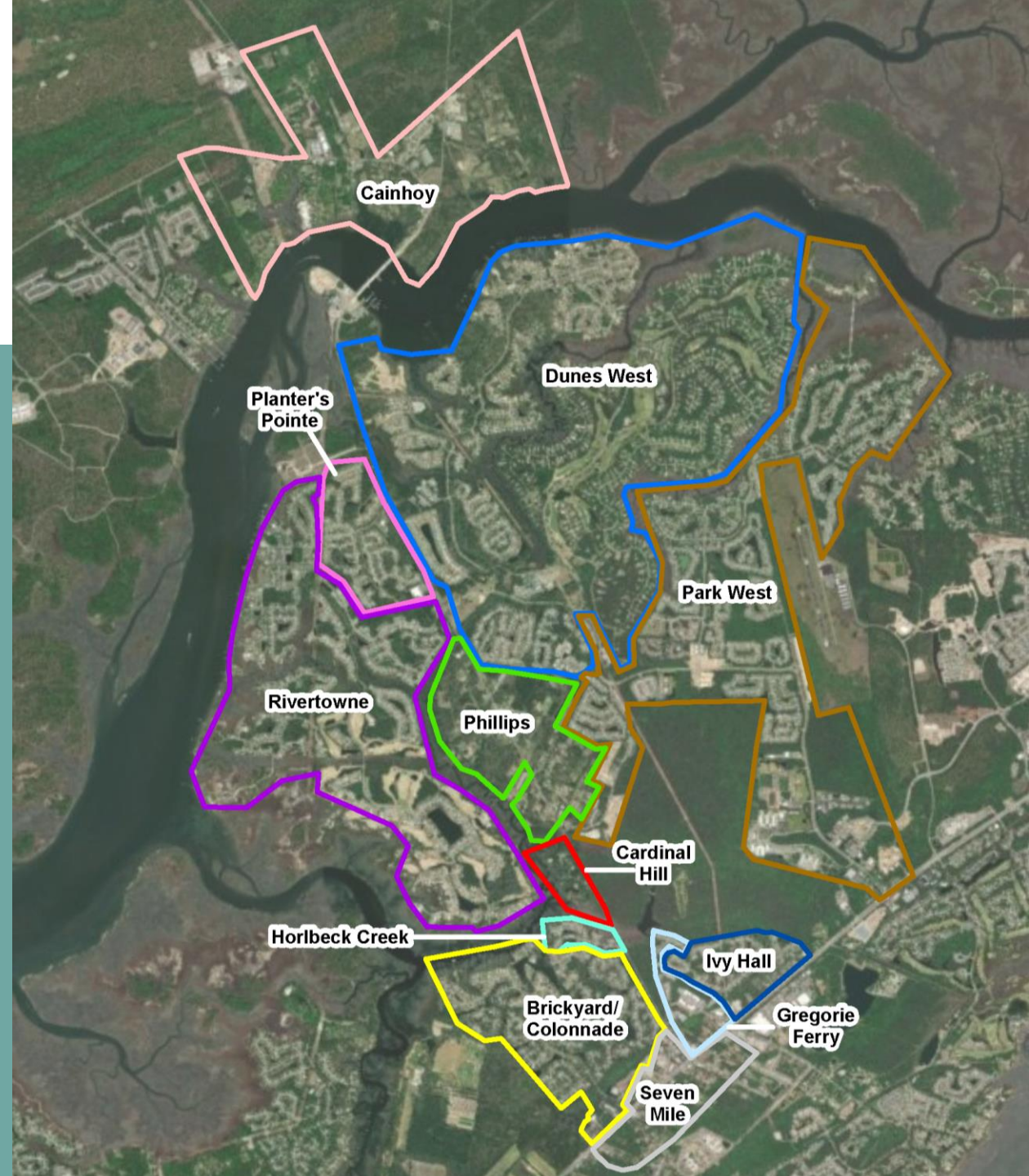


Factors examined in the environmental review:

-  AIR QUALITY
-  ARCHITECTURAL/ ARCHAEOLOGICAL RESOURCES
-  BUSINESSES
-  CEMETERIES
-  CHURCHES, SCHOOLS, PARKS
-  CONSTRUCTION FEASIBILITY
-  COSTS
-  ENDANGERED SPECIES
-  EXISTING/PLANNED UTILITIES
-  FARMLANDS
-  FLOODPLAINS
-  HAZARDOUS MATERIALS
-  HISTORIC/CULTURAL RESOURCES
-  NEW/PLANNED DEVELOPMENTS
-  NOISE
-  RESIDENTIAL AREAS
-  STATE/FEDERAL LANDS
-  WETLANDS/ WATERWAYS

Community Characterization Report

Findings from the Community Characterization and Community Impact Assessment will be used to evaluate project impacts to the human environment in the environmental document for the proposed project.



Traffic: Level of Service

A standard measurement based on vehicle delay and speed, which reflects the relative ease of traffic flow on a scale of A to F.



Stable Traffic Flow



Unstable Traffic Flow



ALTERNATIVES SCREENING PROCESS

DEVELOP RANGE OF ALTERNATIVES

Based on

- Preliminary traffic studies (CHATS model and planned developments)
- Regional planning documents
- Community and stakeholder working group meetings
- Agency input

| | |
|---------------|----------------|
| ALTERNATIVE 1 | ALTERNATIVE 7 |
| ALTERNATIVE 2 | ALTERNATIVE 8 |
| ALTERNATIVE 3 | ALTERNATIVE 9 |
| ALTERNATIVE 4 | ALTERNATIVE 10 |
| ALTERNATIVE 5 | ALTERNATIVE 11 |
| ALTERNATIVE 6 | ALTERNATIVE 12 |

SCREENING 1

IDENTIFY REASONABLE ALTERNATIVES

Eliminate and advance preliminary alternatives based on

- Ability to meet purpose and need
- Public input

| |
|---------------|
| ALTERNATIVE 1 |
| ALTERNATIVE 2 |
| ALTERNATIVE 7 |

SCREENING 2

REFINE THE LIST OF REASONABLE ALTERNATIVES

Eliminate and advance preliminary alternatives based on

- Ability to meet purpose and need
- Public input
- Refined traffic analysis

| |
|---------------------------|
| ALTERNATIVE 1 |
| ALTERNATIVE 2 |
| ALTERNATIVE 2A |
| INTRODUCED ALTERNATIVE 5A |
| ALTERNATIVE 7 |
| INTRODUCED ALTERNATIVE 7A |

SCREENING 3

FINALIZE REASONABLE ALTERNATIVES FOR ANALYSIS IN DRAFT REPORT

Reasonable alternatives will be refined and either eliminated or advanced based on

- Public input
- Environmental factors
- Costs
- Logistics

| |
|----------------|
| ALTERNATIVE 1 |
| ALTERNATIVE 5A |
| ALTERNATIVE 7A |

SCREENING 4

IDENTIFY PROPOSED ALTERNATIVE

Identify proposed alternative based on

- Ability to meet the purpose and need of the project
- Public input
- Environmental factors
- Costs
- Logistics

WE ARE HERE

ALTERNATIVES SCREENING PROCESS

DEVELOP RANGE OF ALTERNATIVES

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WE ARE HERE

Reasonable Alternatives Presented in May 2018

No Build

Level of Service (LOS)



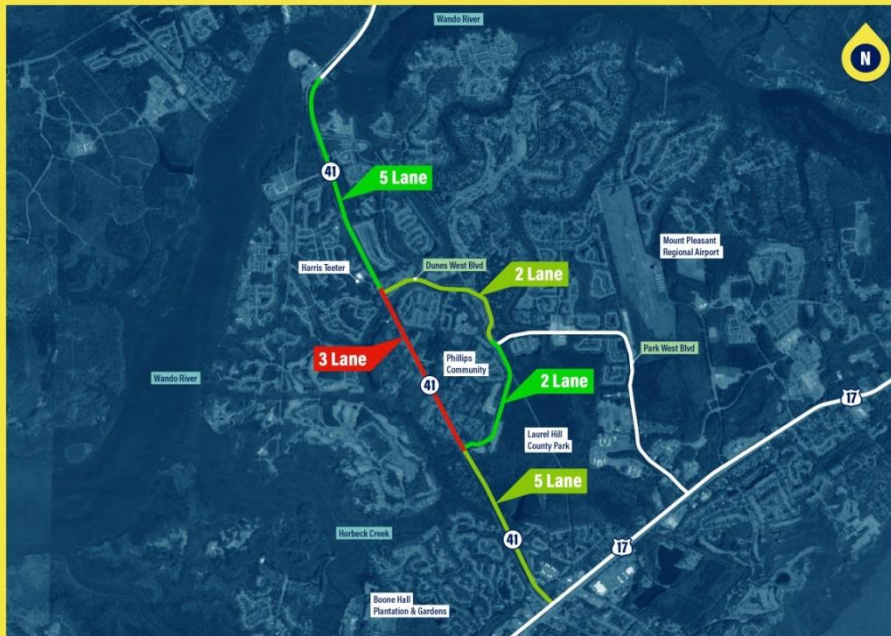
Alternative 1

Level of Service (LOS)



Alternative 2

Level of Service (LOS)



Alternative 7

Level of Service (LOS)



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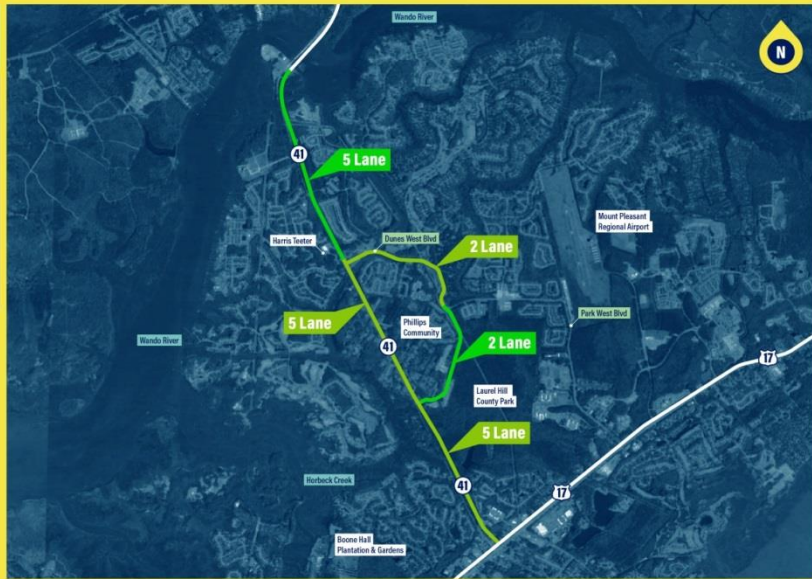
Identify proposed alternative based on

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WE ARE HERE

Alternative 1

Level of Service (LOS)



Alternative 7a

Level of Service (LOS)



Alternative 5a

Level of Service (LOS)



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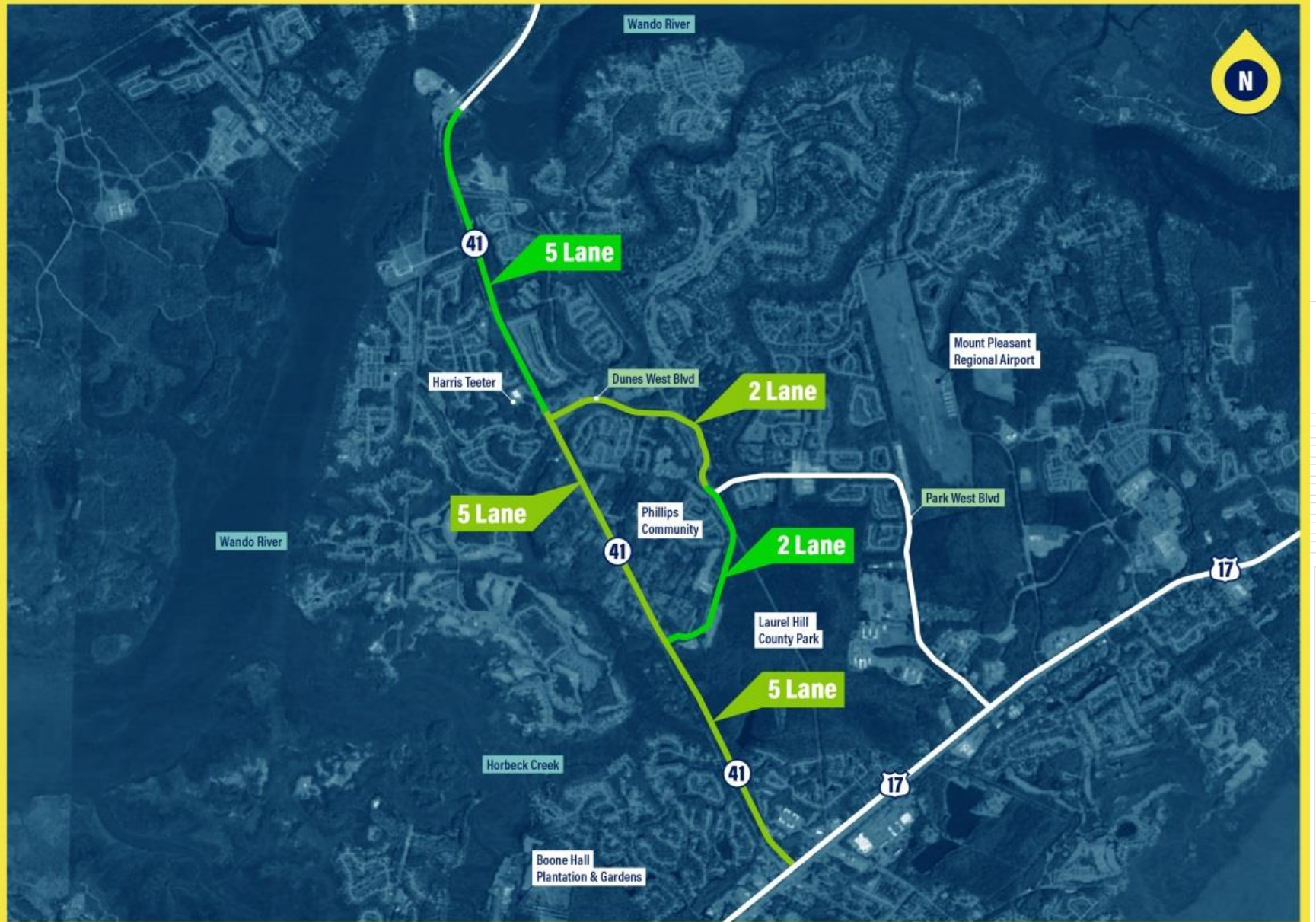
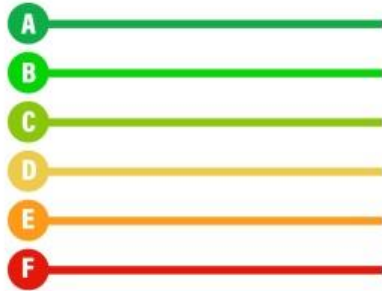
Identify proposed alternative based on

- Ability to meet the purpose and need of the project
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WE ARE HERE

Alternative 1

Level of Service (LOS)



- Alternative 1 meets the purpose and need of the project

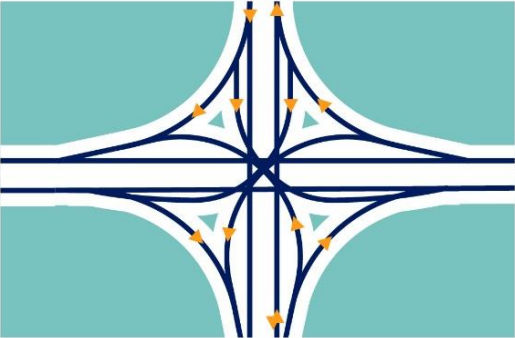
Alternative 7a

Level of Service (LOS)

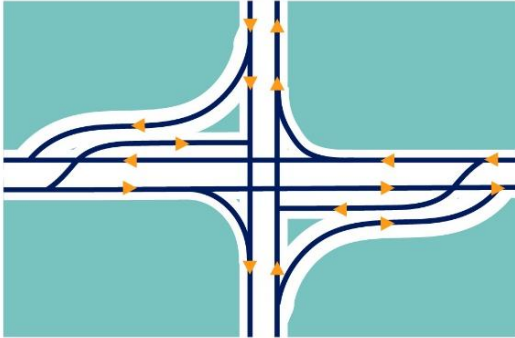


- Alternative 7a has been modified to reroute Highway 41 parallel to Bessemer Road and onto Laurel Hill County Park property, parallel to the power line easement, and then back along Dunes West Boulevard.
- Alternative 7a meets the purpose and need of the project.

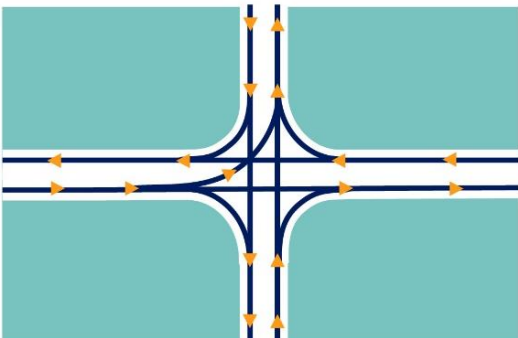
Intersection Concepts – Highway 41 at Highway 17



Single Point Urban Interchange



Continuous Flow Intersection

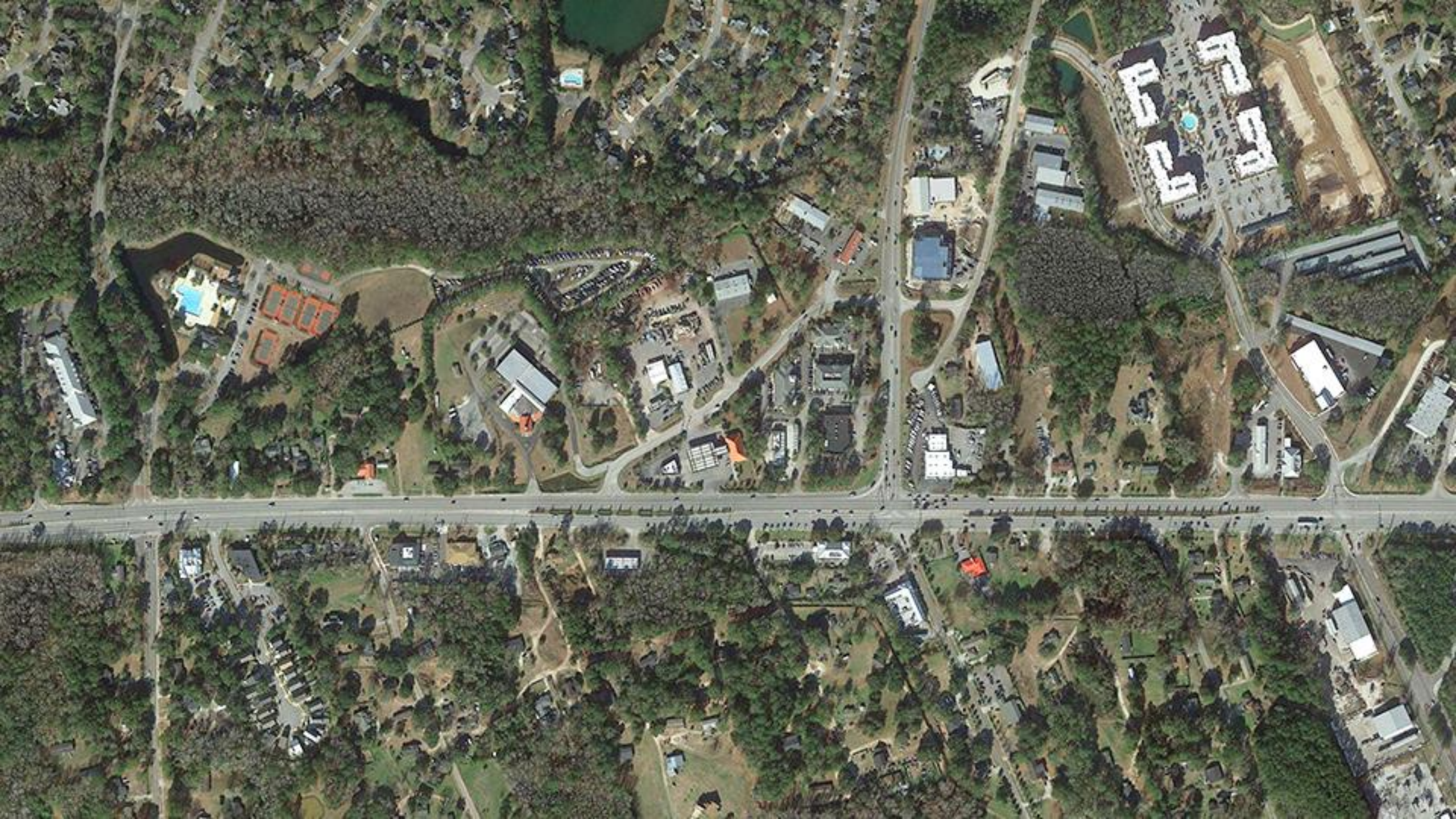


Flyover Left Turn Mid



Flyover Left Turn





Intersection Concepts

Highway 41 at 17 Intersection

- Evaluation of interchange options
- Preliminary design layout of interchanges
- Preliminary traffic modeling

What's next

- Finalize interchange concept – traffic, design, impacts minimization
- Present concept to the public for input – mid-August



Comment Summary to Date

2,325 Project Comments Received

Top Comment Themes

- **Traffic/Safety**
- **Residential Areas**
- **Historic/Cultural Resources**
- **Property Value**
- **New/Platted Developments**
- **Noise**

Next Steps

- Further evaluate
 - Alternative 1
 - Alternative 7a
 - Interim Improvements
 - Intersection design options
- Public Meeting on the proposed alternative, fall 2019
- Draft environmental report for review by US Army Corps of Engineers



Contact Us



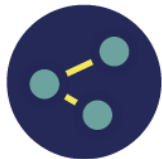
Visit: www.Hwy41SC.com



Email us to leave comments or join the project mailing list: Hwy41SC@gmail.com



Leave a message for the project team
843-972-4403



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CAL OYER, P.E.

Project Manager

Charleston County Transportation
Development

843-202-6148

coyer@charlestoncounty.org