



FPID: 436187-1



FPID: 435627-1

Concept Development & Evaluation

Project Update

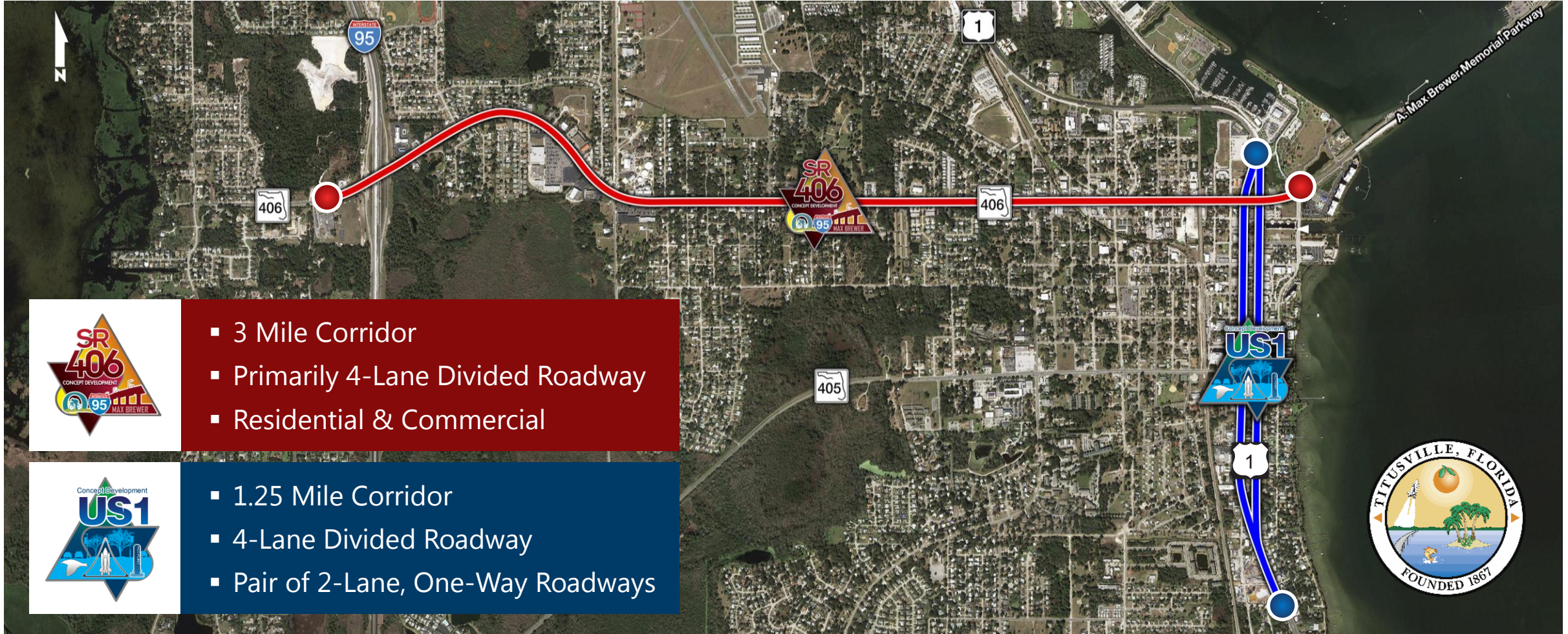
October 2018



Florida Department of Transportation



Regional Context



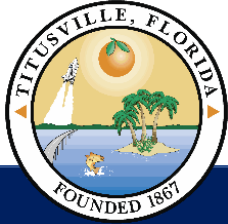
- 3 Mile Corridor
- Primarily 4-Lane Divided Roadway
- Residential & Commercial



- 1.25 Mile Corridor
- 4-Lane Divided Roadway
- Pair of 2-Lane, One-Way Roadways



Project Background



Studies Requested
by City of Titusville



Corridor Planning
Studies



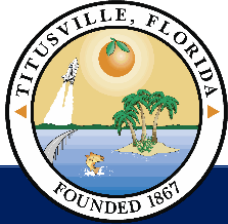
Concept
Development and
Evaluation

Studies Requested by City of Titusville

Purpose: Provide **improved multimodal mobility**, with consistent roadway design that will **enhance safety and connectivity** while supporting economic and community development goals.



Project Background



Studies Requested
by City of Titusville



Corridor Planning
Studies



Concept
Development and
Evaluation

Corridor Planning Studies

- Studies **began in January 2015**
- Public Meeting in February 2016 **presented the potential alternatives**
- Studies **completed in September 2016** producing the original alternatives to be advanced into the next phase



Project Background



Studies Requested
by City of Titusville



Corridor Planning
Studies



Concept
Development and
Evaluation

Concept Development and Evaluation Studies

- Began in June 2017
- **Refining original alternatives** from planning studies into proposed alternatives



Original Planning Studies Alternatives

Advanced into Concept Development and Evaluation Study



S.R. 406

- **Median Improvements** throughout the S.R. 406 corridor
- Addition of **bike lanes** throughout the S.R. 406 corridor
- **Lane Modification** along S.R. 406, from Dixie Avenue to Indian River Avenue
- **Roundabout** at Singleton Avenue & S.R. 406

U.S. 1

- **Roundabout** at U.S. 1 & S.R. 406
- **Roundabout** at U.S. 1 & Grace Street (did not move forward during the current study)



Proposed Alternative Not Moving Forward: U.S. 1 & Grace Street Roundabout



During the **Concept Development and Evaluation Studies** this roundabout was removed from the **Proposed Alternatives**.

Will **NOT** move forward due to:

- Low side-street volume
- Low benefit-cost ratio
- Potential of significant business relocation costs





Future Conditions: No Build

Roadway Operations & Safety Needs



Roadway Capacity

- Corridor expected to operate at an **acceptable** level in 2040 without any changes

Safety Needs

- Reduction in number of median openings
- Reduction in number of intersection crashes



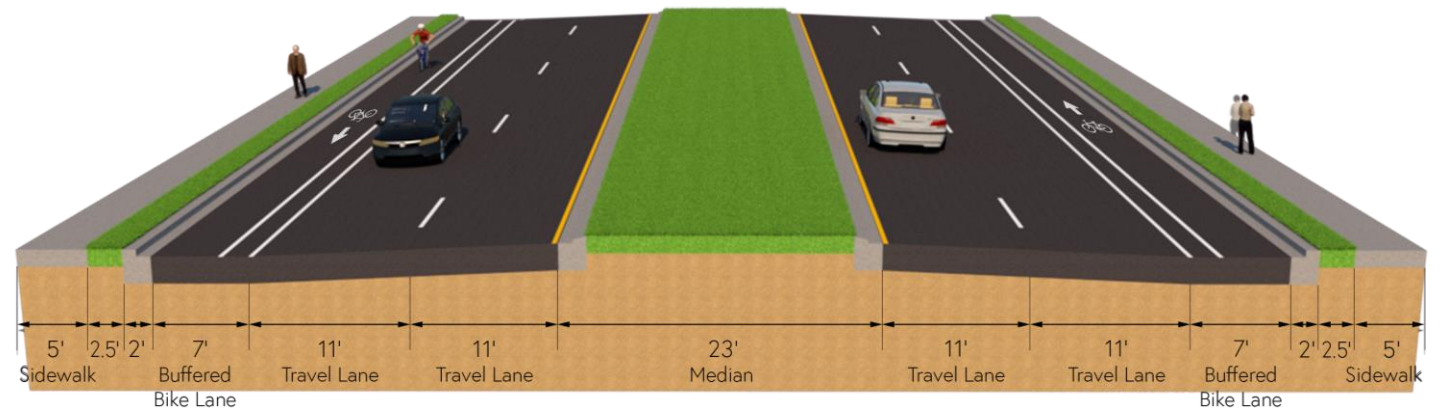


Median Improvements and Addition of Bike Lanes

S.R. 406 from South Lake Elementary School to Dixie Avenue



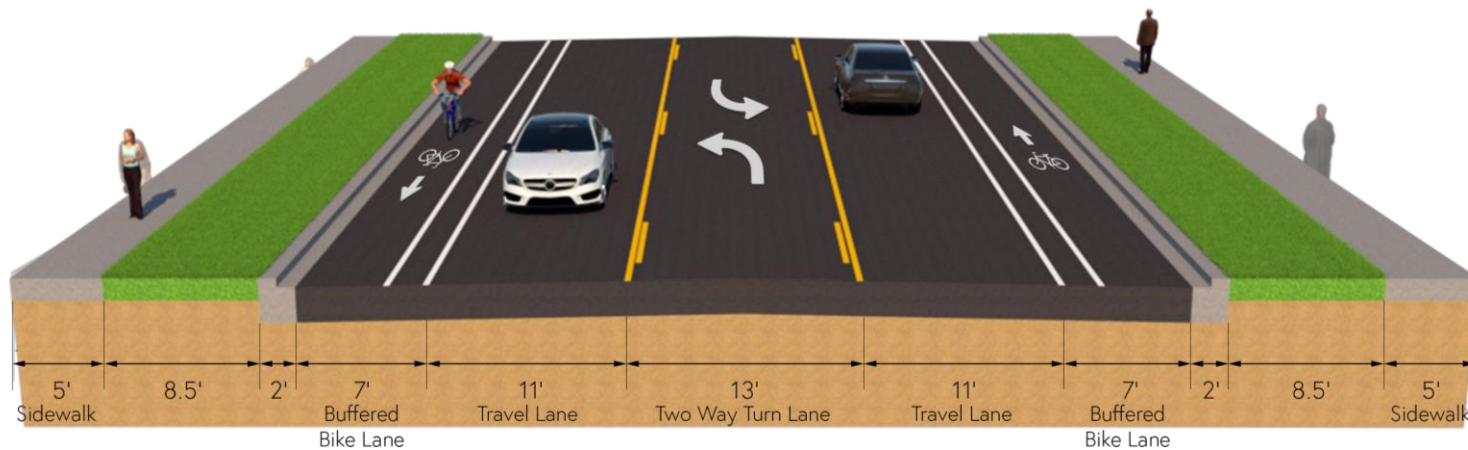
- ### Proposed Changes
- **Removal** of on street parking
 - **Reduction** of travel lane width
 - **Addition** of buffered bicycle lanes
 - **Widen** raised median
 - **Reduce** the number of openings
 - **Maintain** existing sidewalks, curb, and right of way





Lane Modification

S.R. 406 from Dixie Avenue to Indian River Avenue

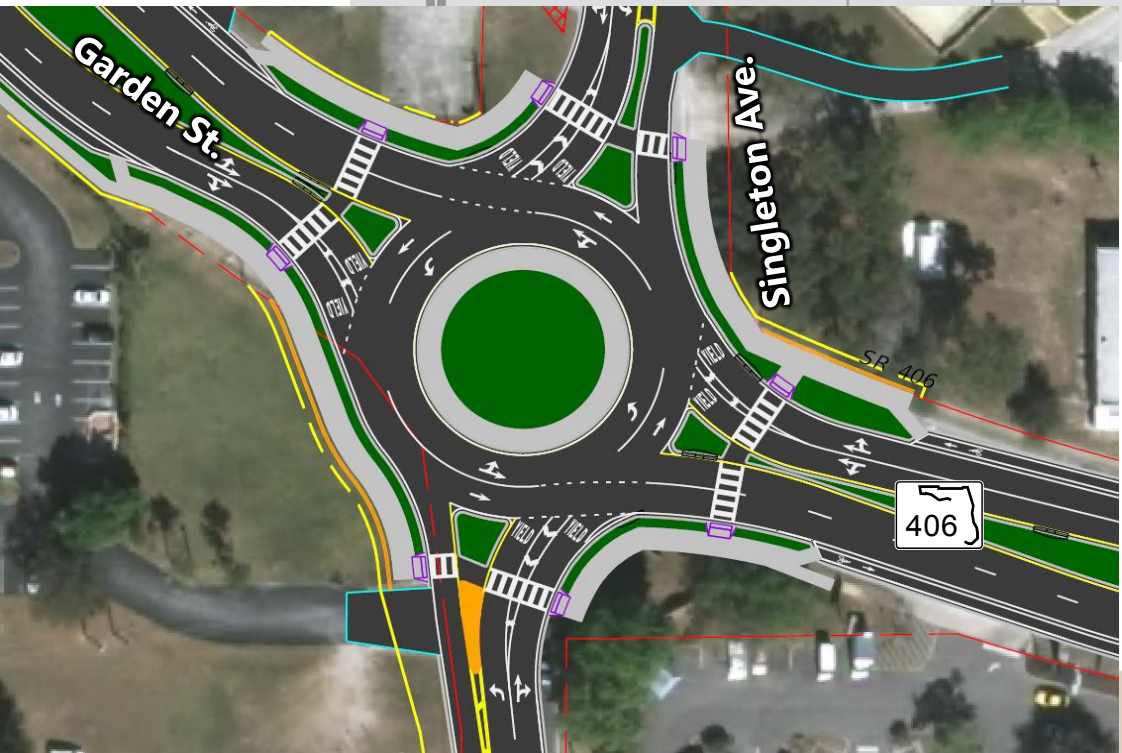
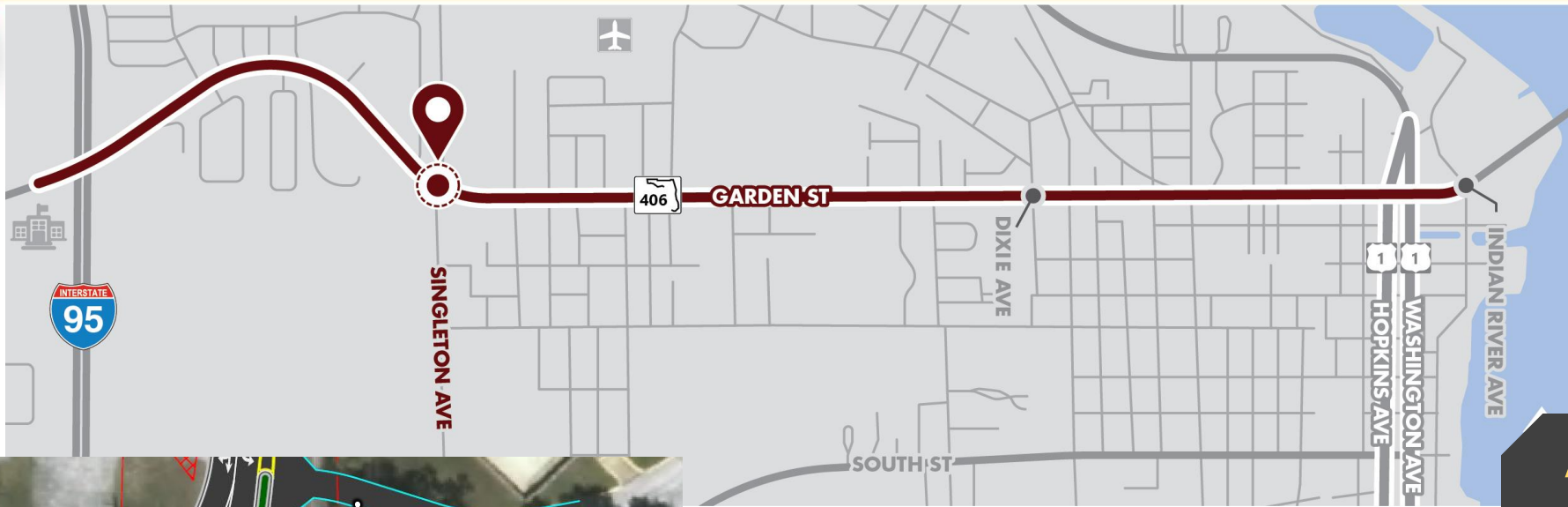


Proposed Changes

- **Reduce** typical section from 5-lanes to 3-lanes: 2 travel lanes and 1 center turn lane
- **Reduction** of travel lane width
- **Addition** of buffered bicycle lanes
- **Reduction** of overall roadway width



Roundabout: S.R. 406 at Singleton Avenue



Anticipated to:

- ✓ **Reduce** number of crashes at intersection
- ✓ **Slow** traffic speeds moving into downtown
- ✓ **Serve** as gateway feature into downtown
- ✓ **Improve** traffic operations
- ✓ **Provide** an estimated savings over the life of the project of:
 - \$6.2 million in crash cost reduction
 - \$1.1 million in delay reduction savings



Roundabout: S.R. 406 at U.S. 1

Both intersections (Hopkins Avenue and Washington Avenue)



Anticipated to:

- ✓ **Reduce** number of crashes at intersections
- ✓ **Slow** traffic speeds moving into downtown
- ✓ **Serve** as gateway feature into downtown
- ✓ **Improve** traffic operations
- ✓ **Provide** an estimated savings over the life of the project of:

\$8.7 million in crash cost reduction

\$2.1 million in delay reduction savings





Roundabout: S.R. 406 at U.S. 1

Removes closely spaced signalized intersections



- ✓ Simplified
- ✓ Safer

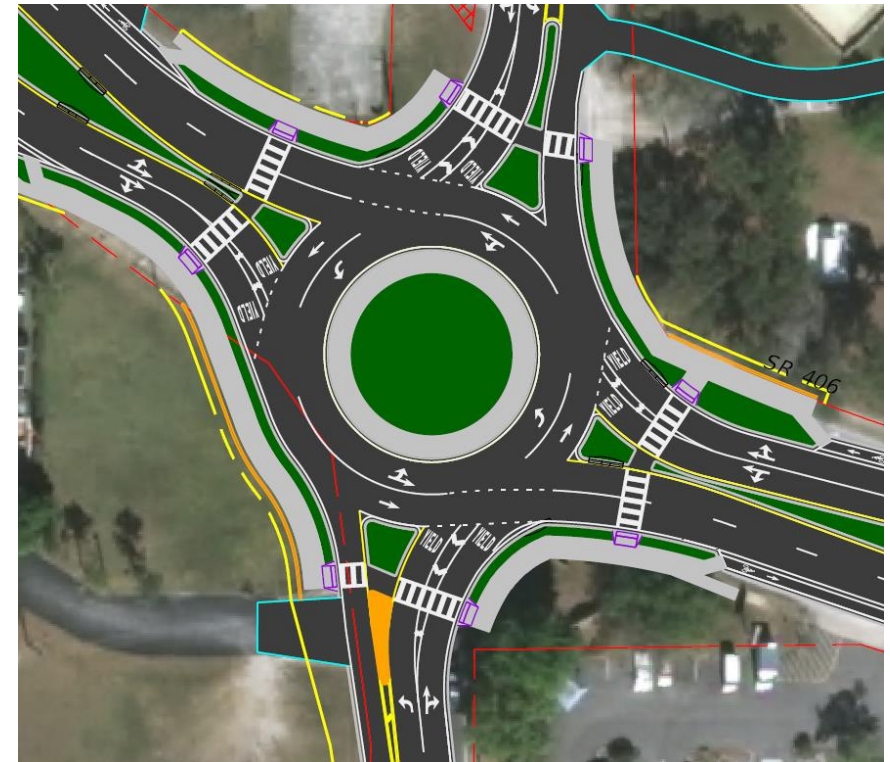


Final Recommendations

Summary



- **Median Improvements** throughout the S.R. 406 corridor
- Addition of **bike lanes** throughout the S.R. 406 corridor
- **Lane Modification** along S.R. 406 from Dixie Avenue to Indian River Avenue
- **Roundabout** at Singleton Avenue and S.R. 406
- **Roundabout** at S.R. 406 and U.S. 1





Stakeholder & Local Outreach

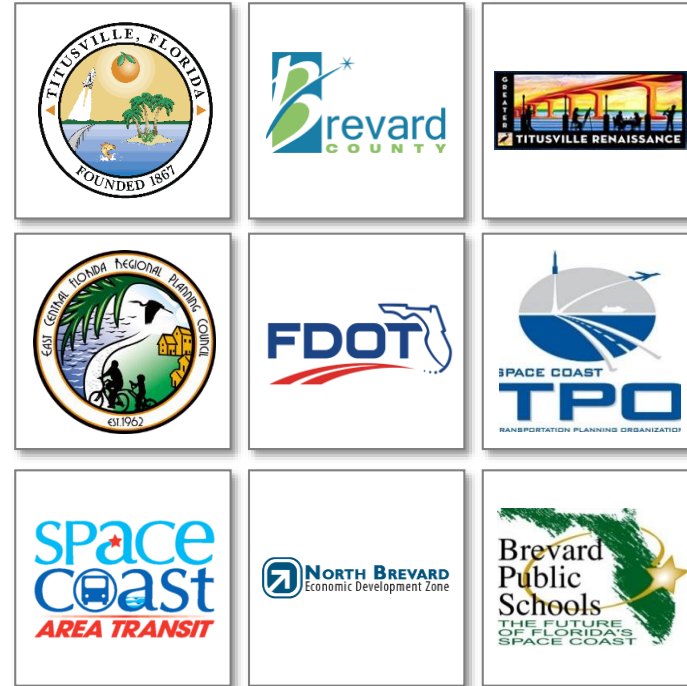


Project Visioning Team (PVT)

- PVT meetings held on November 8, 2017 & June 27, 2018

Public Meeting

- Present study findings, recommendations, and receive feedback
- Held on September 20, 2018





Next Steps



End Concept Development Phase
December 2018

Present findings to Titusville City Council And Space Coast TPO
October 2018

Public Comment and Response Period
September 2018

Planning Phase

Concept Development Phase

Design Phase

Right of Way Phase

Construction Phase





Questions or Comments?



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Project information available at:

S.R. 406: <http://www.cflroads.com/project/436187-1/>

U.S. 1: <http://www.cflroads.com/project/435627-1/>

www.cflroads.com