



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090779

Mode: Highway

Status: Submitted

US-70

From/Cross Street: SR 1175 (Radio Island Road)

Specific Improvement Type: 7 - Upgrade At-grade Intersection to Interchange or Grade Separation

To:

Project Category: Statewide Mobility

Length: 2

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$34,944,000

Description:

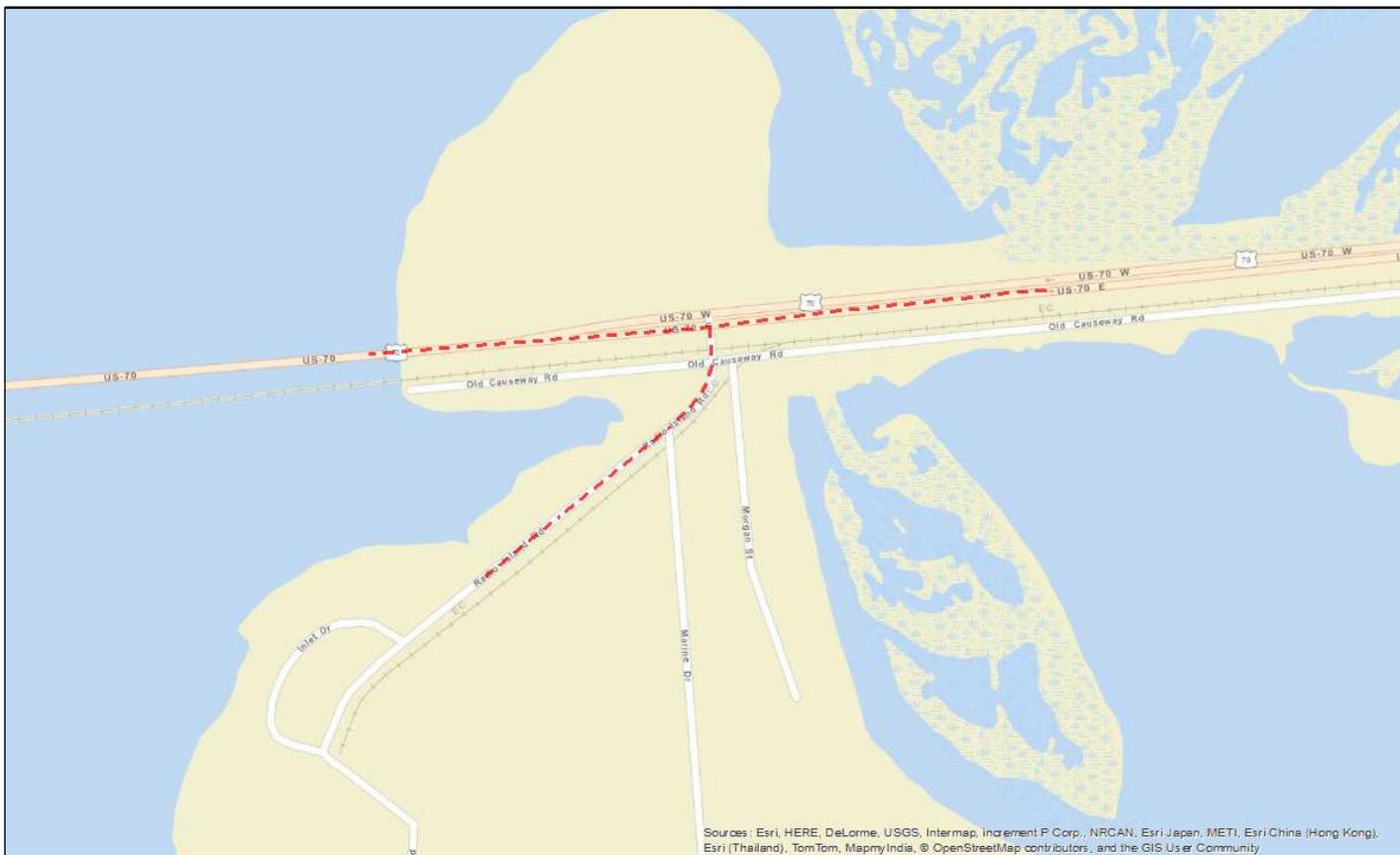
Compressed Diamond intersection Located at the Highway 70 Entrance to Radio Island

Division(s): Division 2

County(s): CARTERET

MPOS(s)/RPO(s): Down East RPO

Project Location



Statewide Mobility Total Score: 31.87

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|--------------------------------------|----------------------------|
| [Travel Time] Benefit/Cost (30%) 1.42 Multimodal + [Freight & Military] (20%) 46.34 Congestion (V/C) (30%) 60.91 Safety (10%) 33.30 Economic Competitiveness (10%) 5.74 | N/A | N/A |
| Totals: Weight: 100% Weighted Score: 31.87 | | |

Regional Impact Total Score: 50.04

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|--|--------------------------------------|----------------------------|
| Multimodal + [Freight & Military] (25%) 46.34 [Travel Time] Benefit/Cost (20%) 1.42 Safety (25%) 33.30 | Percent: 15% Points: 100 | Percent: 15% Points: 99 |
| Totals: Weight: 70% Weighted Score: 20.19 | | |

Division Needs Total Score: 23.48

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|--------------------------------------|----------------------------|
| Congestion (V/C) (20%) 60.91 Safety (20%) 33.30 Multimodal + [Freight & Military] (10%) 46.34 | Percent: 25% Points: 0 | Percent: 25% Points: 0 |
| Totals: Weight: 50% Weighted Score: 23.48 | | |

Project Data ***Existing Conditions**

| | |
|---|--------------------------|
| Existing Cross-Section: | |
| Speed Limit: | 45 |
| Length (miles); | 2 |
| Facility Type: | Arterial |
| Access Control: | None |
| Functional Classification: | Other Principal Arterial |
| Terrain Type: | Level |
| Lane Width: | 12 |
| Paved Shoulder Width: | 0 |
| Roadway has Curb & Gutter? | No |
| Volume (AADT): | 38000 |
| Capacity: | 49881.58 |
| Volume/Capacity Ratio: | 0.76 |
| % Autos: | 96% |
| % Trucks: | 4% |
| Truck Volume: | 1650 |
| Crash Density: | 0 |
| Crash Severity: | 0 |
| Critical Crash Rate: | 0 |
| Crash Frequency: | 33.3 |
| Severity Index: | 33.3 |
| County Tier Designation: | 3 |
| Non-Interstate STRAHNET Route? | Yes |
| Average Commuting Time: | 10 |
| Existing Median Type (for Cost Estimation): | Divided |
| Pavement Condition Rating: | 74 |
| Actual Congested Speed: | 21.64 |
| Travel Time Index: | 2.08 |

Project Benefits

| | |
|--|--------------------------|
| Project Cross-Section: | |
| Speed Limit: | 55 |
| Length (miles): | 2 |
| Facility Type: | Multi-Lane Highway |
| Access Control: | Limited |
| Functional Classification: | Other Principal Arterial |
| TerrainType: | Level |
| DOT Design Lane Width: | 12 |
| DOT Design Paved Shoulder Width: | 4 |
| Travel Time Savings for 30 Years (Total): | 2211000 |
| Travel Time Savings for 30 Years (Autos): | 2114996.13 |
| Travel Time Savings for 30 Years (Trucks): | 96003.87 |
| Long-Term Employment: | 38 |
| % Change in Economy: | 7.69E-05 |
| Provides Direct Connection to Transportation Terminal? | Yes |
| Does project upgrade how the roadway functions? | Yes |
| In CTP or LRTP? | No |
| CTP/LRTP Name: | |
| CTP/LRTP Completion Year: | |
| Submitted by: | Division 2 |

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

Project Ownership**Division**

| Division | Percent | Regional Impact | Division Needs |
|------------------------------|----------------|------------------------|-----------------------|
| Division 2 | 100% | 100 | 0 |
| | 0% | 0 | 0 |
| | 0% | 0 | 0 |
| TOTAL Division Points | | 100 | 0 |

MPO/RPO

| MPO/RPO | Percent | Regional Impact | Division Needs |
|-----------------------------|----------------|------------------------|-----------------------|
| Down East RPO | 100% | 99 | 0 |
| | 0% | 0 | 0 |
| | 0% | 0 | 0 |
| TOTAL MPO/RPO Points | | 99 | 0 |

Project Cost and Source

| | | |
|------------------------|---------------------|----------------------|
| Construction Cost: | \$30,324,000 | TIP Unit |
| Right-of-Way Cost: | \$4,620,000 | Cost Estimation Tool |
| Utilities Cost: | \$0 | Cost Estimation Tool |
| Total Project Cost: | \$34,944,000 | |
| Other Funding: | \$0 | None |
| Cost to NCDOT : | \$34,944,000 | |