

US 70 (Arendell Street) Widening

From 4th Street to SR 1175 (Radio Island Rd)

Local ID: U-5876

Purpose: Congestion

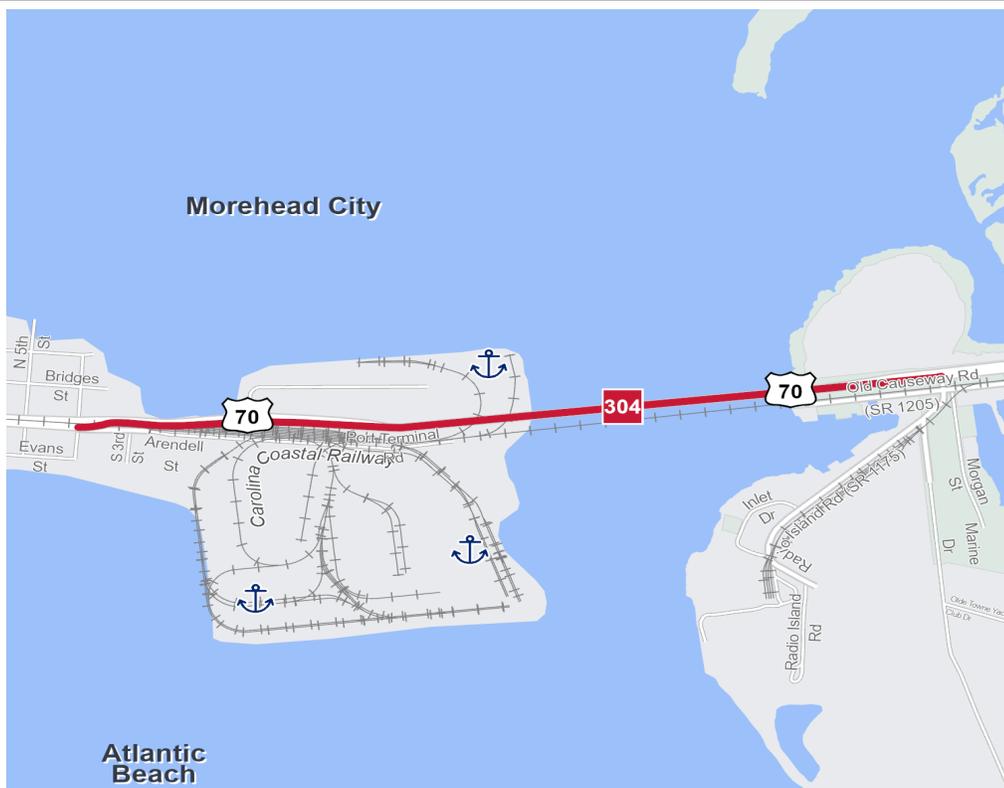
Improvement: Widening

Identified Need

US 70 (Arendell St) from 4th Street in Morehead City to Beaufort Causeway is projected to be over capacity by year 2050. Improvements are needed to relieve congestion on the existing facility and accommodate projected traffic volumes such that a minimum of Level of Service (LOS) D can be achieved.

Recommendation

U-5876 proposes to improve US 70 (Arendell Street) from 4th Street in Morehead City to SR 1175 through widening the roadway to four lanes. Addition of multiuse path as well.



Proposal At A Glance

Highway Class	Congestion & Mobility
Facility Type	Boulevard
Typical Section	04 B
Section Options	-
Length (miles)	1.40
Existing ROW (feet)	50-200
Safety Risk Score	56

Proposal Data: 2019 Base Year 2050 Future Year

Improved Route	2019 Base Year		2050 Future Year	
	Existing	Without Proposal	With Proposal	
Facility Type	Boulevard	Boulevard	Boulevard	
Travel Lanes	4	4	4	
Volume (vpd)	21000	32300	30000	
Capacity (vpd)	13200-38100	28100-38100	38100	

Capacity Data: Year

Facility will be Approaching Capacity (>80%)	-
Facility will be Over Capacity (>=100%)	-

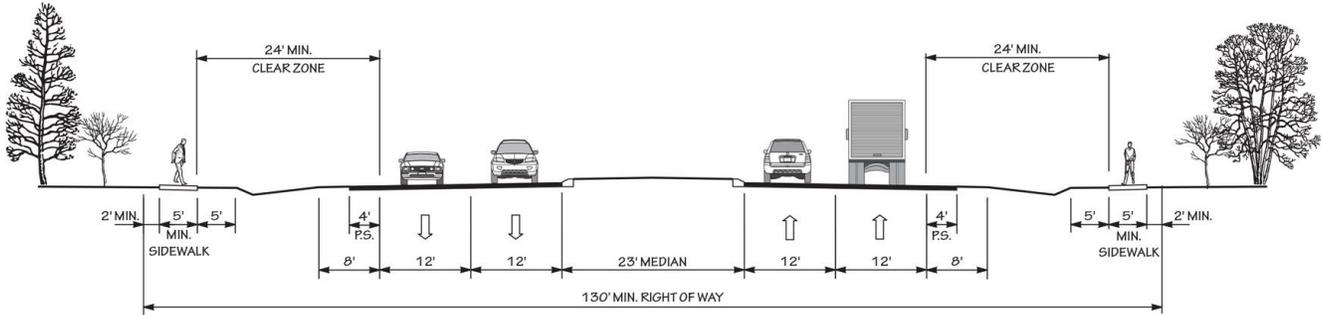


Typical Section Options:

None

TYPICAL SECTION No. 4B

4 LANE DIVIDED (23' RAISED MEDIAN) WITH PAVED SHOULDERS AND SIDEWALKS



POSTED SPEED 35-55 MPH

Project History/Linkage to Other Plans

Project History

This project is identified in the 2024-2033 State Transportation Improvement Program (STIP) and is funded for preliminary engineering only.

Bridge No. 13 is a fixed span high rise bridge built in 1964. Originally, Bridge No. 13 was proposed to be improved or replaced under STIP No. U-5740 while improvements on US 70 (Arendell Street) were programmed under U-5876. NCDOT combined these projects into a single project as STIP No. U-5876 in April 2018.

Land Use

Current land uses in the project area are a mixture between business and recreational. The Port of Morehead City encompasses land both north and south of Bridge No. 13. A rail line serving the Port runs parallel to US 70 (Arendell Street) throughout the project area. Morehead City Yacht Basin, Radio Island Marina, and Portside Marina are all located in the project area. The Morehead City Boat Ramp and Fishing Pier and Newport River Beach Access occupy Radio Island north of US 70 (Arendell Street).

The Port of Morehead City, owned/operated by the North Carolina State Ports Authority, is located in the study area along US 70. The Port of Morehead City is one of the deepest breakbulk and bulk facilities on the United States East Coast, easily accessible from the Atlantic Ocean, and is a major economic force locally and for the state. Located across the Newport River from the Port of Morehead City, Radio Island is a 150-acre site for future port industrial development.

CTP Goal Analysis

Goals and Objectives Survey

The vision for Carteret County is to have a safe, diverse, efficient, integrated, and environmentally sensitive and

sustainable multi-modal transportation system for its residents, visitors, and businesses. The Carteret County CTP goals include: promoting a safer and more secure transportation network, creating a more efficient transportation system, providing an integrated and multimodal transportation network, supporting regional growth in the transportation network, preserving the social and environmental character of the region, extending the life of the transportation system by developing sustainable transportation solutions, and anticipating future needs of the area in terms of resiliency and flooding. This project addresses congestion concerns along US 70 near Morehead City providing a more efficient transportation network in Carteret County.

Public Comments

This Carteret County CTP survey was open from March 1st, 2023 to April 30th, 2023 and there was an English and Spanish version of the survey. There were a total of 439 participants and 1,387 comments as pins on the map were received. This project received 34 comments as pins during the online survey. The main concerns were congestion, better bicycle and pedestrian access, and maintenance.

Other Information

This project has a safety risk score of 56. The safety risk score calculation is based on three components - class density ratio, severity index, and critical crash rate ratio. The higher the score the more unsafe an area is - so this area is considered mostly safe.

Environmental Data

All environmental data in the database was considered. This Project is within 150 feet of:

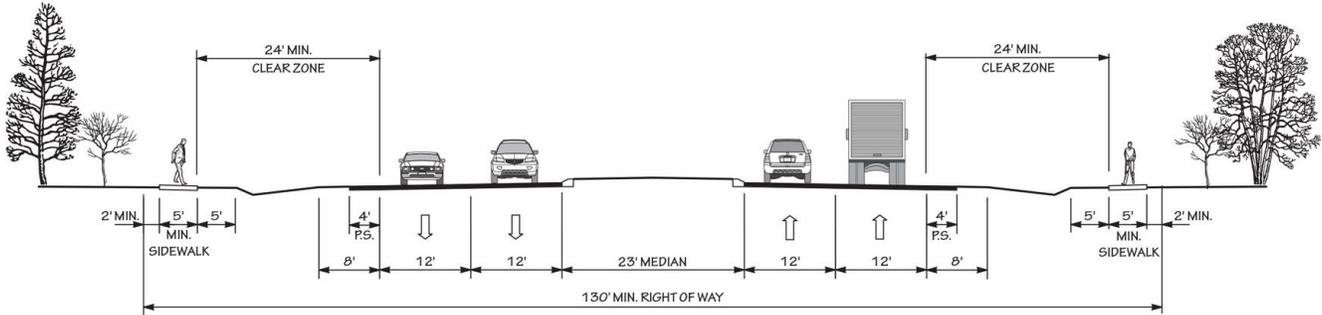
- 1 Beach And Waterfront Access Feature(s)
- 8 Benthic Habitat Feature(s)

Typical Section Options:

None

TYPICAL SECTION No. 4B

4 LANE DIVIDED (23' RAISED MEDIAN) WITH PAVED SHOULDERS AND SIDEWALKS



POSTED SPEED 35-55 MPH

- 1 Coastal Region Evaluation Of Wetland Significance Feature(s)
- 14 Flood Hazard Area Feature(s)
- 1 Hazard Substance Disposal Site(s)
- 2 High Quality And Outstanding Resource Water Feature(s)
- 2 Impaired Waters Line Feature(s)
- 2 Impaired Waters Polygon Feature(s)
- 4 Major River Feature(s)
- 2 Managed Area Feature(s)
- 4 Natural Heritage Element Occurrence Feature(s)
- 2 Wetland Feature(s)
- 2 River And Stream Feature(s)
- 2 Quality Monitored River And Stream Feature(s)
- 1 Target Local Watershed Feature(s)

- 0% identify as Over 18 with Limited English Proficiency (LEP) - Other
- 0% identify as Over 18 with Limited English Proficiency (LEP) - Spanish
- Between 5% and 15% identify as Native American
- Between 5% and 10% identify as Two of More Races
- Between 25% and 50% identify as Below Poverty Line
- Between 20% and 50% identify as Households with No Car

This recommendation passes through one or more Census Blocks with the following characteristics:

- Between 50% and 100% identify as 65+
- Between 25% and 50% identify as African American
- Between 0% and 5% identify as Asian
- Between 1% and 2.5% identify as Hawaiian or Pacific Islander
- Between 1% and 5% identify as Hispanic and Latino
- 0% identify as Over 18 with Limited English Proficiency (LEP) - Asian and Pacific Islander
- Between 0% and 5% identify as Over 18 with Limited English Proficiency (LEP) - Indo-European