



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

September 2, 2009

MEMORANDUM

TO: Mr. Calvin W. Leggett, P.E.
Manager, Program Development Branch

FROM: Ms. Lynnise M. Hawes, P.E. *LMA*
Feasibility Studies Engineer

SUBJECT: R-4431 - New Route (Northern Carteret Bypass) from the Havelock Bypass (TIP# R-1015) to Beaufort, Carteret and Craven Counties.

As requested, we have completed the study of the additional sections for the project listed above. This project proposes to construct a new freeway section of roadway for the limits mentioned above as shown on Figure 2.

SECTION 8: Four-lane divided freeway section from the terminus of Sections 3 and 7 to approximately 0.3 miles north of SR 1466 (Harbor Drive) on new location, a distance of approximately 3.9 miles. Included in the costs below are new dual bridges over SR 1163 (Laurel Road) and two private roadways. Also included in the costs below is a diamond interchange at the junction with the proposed extension of US 70.

Cross-section: Four-lane divided freeway, 102 feet from edge of pavement to edge of pavement, with 12-foot travel lanes, a 46-foot depressed grass median, 4-foot inside paved shoulders, and 14-foot outside shoulders (4 feet of which are paved) on 350 feet of right of way.

With this proposed cross-section, it is anticipated that there will be two (2) residences and one (1) business relocated due to this project. The total cost of this section, including right of way, utility relocation, and construction is estimated to be \$52,400,000.

Right of Way.....	\$5,600,000
Utility Relocation.....	\$300,000
<u>Construction.....</u>	<u>\$46,500,000</u>
Total Cost (Section 8).....	\$52,400,000

raised grass median, and 8-foot shoulders (4 feet of which are paved) on 150 feet of right of way for a distance of approximately 2.4 miles.

SECTION 9 – OPTION A: Four-lane divided freeway section from the terminus of Section 8 to approximately 0.2 miles south of SR 1429 (Olga Road) utilizing the existing US 70, a distance of approximately 1.6 miles.

Cross-section: Four-lane divided freeway, 102 feet from edge of pavement to edge of pavement, with 12-foot travel lanes, a 46-foot depressed grass median, 4-foot inside paved shoulders, and 14-foot outside shoulders (4 feet of which are paved) on 350 feet of right of way.

With this proposed cross-section, it is anticipated that there will be twenty-six (26) residences and one (1) business relocated due to this project. The total cost of this section, including right of way, utility relocation, and construction is estimated to be \$31,500,000.

Right of Way.....	\$11,400,000
Utility Relocation.....	\$500,000
<u>Construction.....</u>	<u>\$19,600,000</u>
Total Cost (Section 9 – Option A).....	\$31,500,000

In addition to the construction of Section 9-Option A, the following improvements are recommended and included in the costs shown above:

- The construction of a two-lane service road from SR 1466 (Harbor Drive) to SR 1449 (Cedar Avenue) on the west side of the proposed route, a distance of approximately 1.1 miles. The cross-section shall be a two-lane shoulder section with 12-foot travel lanes and 8-foot shoulders (4 feet of which are paved).
- The construction of a two-lane service road from SR 1466 (Harbor Drive) to SR 1429 (Olga Road) on the east side of the proposed route, a distance of approximately 1.2 miles. The cross-section shall be a two-lane shoulder section with 12-foot travel lanes and 8-foot shoulders (4 feet of which are paved).

SECTION 9 – OPTION B: Four-lane divided expressway section from the terminus of Section 8 to approximately 0.2 miles south of SR 1429 (Olga Road) utilizing the existing US 70, a distance of approximately 1.6 miles.

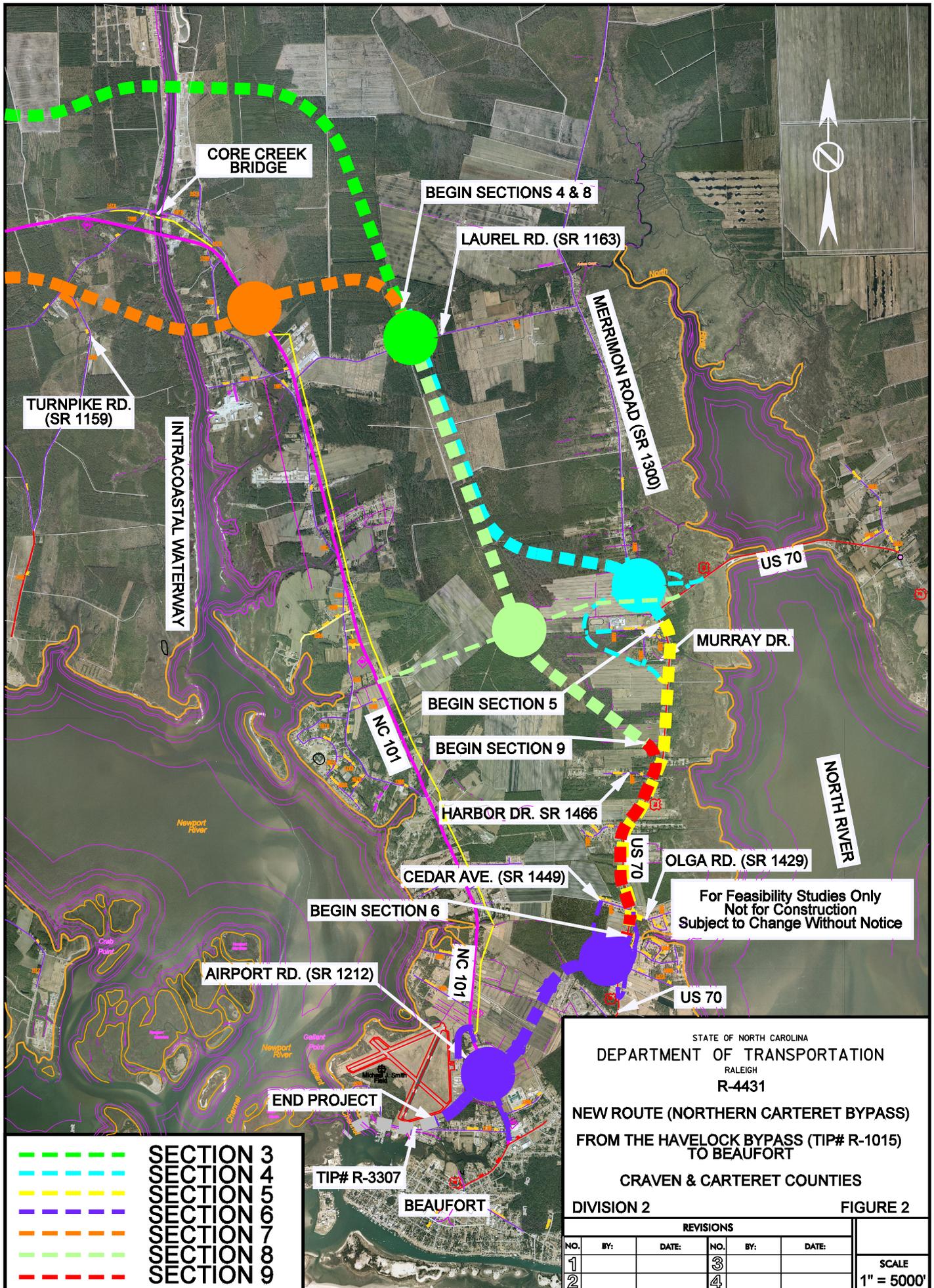
Cross-section: Four-lane divided expressway, 79 feet from edge of pavement to edge of pavement, with 12-foot travel lanes, a 23-foot raised grass median, and 8-foot shoulders (4 feet of which are paved) on 150 feet of right of way. As an expressway, this facility will be restricted to no traffic signals.

With this proposed cross-section, it is anticipated that there will be twelve (12) residences and one (1) business relocated due to this project. The total cost of this section, including right of way, utility relocation, and construction is estimated to be \$14,300,000.

Right of Way.....	\$5,900,000
Utility Relocation.....	\$400,000
<u>Construction.....</u>	<u>\$8,000,000</u>
Total Cost (Section 9 – Option B).....	\$14,300,000

The realignment of SR 1429 (Olga Road) is recommended and included in the costs shown above. The new cross-section is a two-lane shoulder section with 12-foot travel lanes and 8-foot shoulders (4 feet of which are paved) on 100 feet of right of way for a distance of approximately 0.1 miles.

The estimated cost for the proposed full freeway corridors, utilizing Section 8 and Section 9 – Option A, is expected to decrease by approximately \$19,500,000 and range from \$354,200,000 to \$370,600,000. The estimated cost for the proposed freeway/expressway combination corridor, utilizing Section 8 and Section 9 – Option B, is expected to decrease by approximately \$7,700,000 and range from \$264,600,000 to \$282,200,000.



CORE CREEK BRIDGE

BEGIN SECTIONS 4 & 8

LAUREL RD. (SR 1163)

MERRIMON ROAD (SR 1300)

TURNPIKE RD. (SR 1159)

INTRACOASTAL WATERWAY

US 70

MURRAY DR.

BEGIN SECTION 5

BEGIN SECTION 9

NC 101

HARBOR DR. SR 1466

NORTH RIVER

CEDAR AVE. (SR 1449)

OLGA RD. (SR 1429)

For Feasibility Studies Only
Not for Construction
Subject to Change Without Notice

BEGIN SECTION 6

US 70

AIRPORT RD. (SR 1212)

NC 101

END PROJECT

TIP# R-3307

BEAUFORT

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
R-4431

NEW ROUTE (NORTHERN CARTERET BYPASS)
FROM THE HAVELOCK BYPASS (TIP# R-1015)
TO BEAUFORT

CRAVEN & CARTERET COUNTIES

DIVISION 2

FIGURE 2

	SECTION 3
	SECTION 4
	SECTION 5
	SECTION 6
	SECTION 7
	SECTION 8
	SECTION 9

REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SCALE
1" = 5000'