Public Private Partnership Industry Forum

Preliminary Traffic and Revenue Study
(January 24, 2007)

Proposed
Mid-Currituck Bridge

May 7, 2008

Study Overview

- Preliminary Study – completed January 2007
  - Not intended for use in support of project financing
- Conducted Origin-Destination Travel Surveys
- Developed Travel Demand Model
- Land Use Plans from Currituck and Dare
- Tested Toll Rate Sensitivity
- Examined Seasonal Tolling Due to Potential Travel Market
- 40-Year Revenue Forecast
Proposed Mid-Currituck Bridge

2005 – 2006 Traffic Counts
Traffic on Wright Memorial Bridge

Traffic on Wright Memorial Bridge

Traffic (Thousands)

Month

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

Travel Demand Survey

- August and September 2006
- One Weekday and One Weekend Day for Each Survey Period
- Mail-back surveys distributed at red light
- 19% return in August
- 11% return in September
Survey Questions

- Origin and Destination of Trip
- Trip Purpose
- Trip Frequency
- Vehicle Occupancy
- Vehicle Type and Registration
- Resident vs. Visitor
- Frequency of Visits
- Season for Visits

Survey Residency Status

<table>
<thead>
<tr>
<th>Season Type</th>
<th>Resident</th>
<th>Visitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer Weekday</td>
<td>42%</td>
<td>58%</td>
</tr>
<tr>
<td>Summer Weekend</td>
<td>78%</td>
<td>22%</td>
</tr>
<tr>
<td>Non-Summer Weekday</td>
<td>33%</td>
<td>67%</td>
</tr>
<tr>
<td>Non-Summer Weekend</td>
<td>60%</td>
<td>40%</td>
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</tbody>
</table>
Survey Summer Weekend Origins and Destinations

- Southern Shores: 31%
- Duck: 15%
- Pine Island: 10%
- Corolla: 10%
- Four Wheel Drive: 7%
- Other Outer Banks: 3%
- Nearby Mainland: 14%
- Out of State: 10%

Time & Distance Savings with Mid-Currituck Bridge

<table>
<thead>
<tr>
<th>Distance</th>
<th>Legend</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 Miles</td>
<td>25 Minutes (2013)</td>
</tr>
<tr>
<td>33 Minutes</td>
<td>21 Minutes (2013)</td>
</tr>
<tr>
<td>21 Minutes</td>
<td>33 Minutes (2013)</td>
</tr>
<tr>
<td>30 Minutes</td>
<td>30 Minutes (2013)</td>
</tr>
<tr>
<td>21 Minutes</td>
<td>25 Minutes (2013)</td>
</tr>
</tbody>
</table>

Legend:
- 20 Miles
- 25 Minutes (2013)
- 21 Minutes (2013)
- 33 Minutes (2013)
- 30 Minutes (2013)
Passenger Car Toll Rate Assumptions

<table>
<thead>
<tr>
<th>Year</th>
<th>Summer</th>
<th>Non-summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>$8.00</td>
<td>$6.00</td>
</tr>
<tr>
<td>2015</td>
<td>$9.00</td>
<td>$7.00</td>
</tr>
<tr>
<td>2020</td>
<td>$10.00</td>
<td>$8.00</td>
</tr>
<tr>
<td>2025</td>
<td>$12.00</td>
<td>$9.00</td>
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</table>
Key Assumptions

- Mid-Currituck Bridge open by 2013.
- No Competing Bridge, Ferry or Significant Road Improvements Will Be Completed During the Project Period.
- Economic Growth Will be as Estimated in the Currituck and Dare County Land Use Plans.
- Induced Traffic Can Be Expected Due to Implementation of Major New Bridge and Improved Accessibility.
- Both Cash and Electronic Tolling Offered; Majority of Users Expected to Use Electronic Payment.
- Opening Year Toll Rates and Future Increases as Discussed in Report.

Estimated 2013, 2015, and 2025 Traffic

<table>
<thead>
<tr>
<th>Time</th>
<th>Day</th>
<th>Currituck Sound</th>
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</thead>
<tbody>
<tr>
<td>Summer Weekday</td>
<td>2013</td>
<td>3,300</td>
</tr>
<tr>
<td>Summer Weekend Day</td>
<td>2013</td>
<td>13,500</td>
</tr>
<tr>
<td>Non-Summer Weekday</td>
<td>2013</td>
<td>3,000</td>
</tr>
<tr>
<td>Non-Summer Weekend Day</td>
<td>2013</td>
<td>8,000</td>
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</tbody>
</table>

Note: 1. All traffic volumes shown represent thousands of vehicles.
2. Includes induced traffic.
Traffic Market Share - 2025

- Summer Weekday: 88% (Mid-Currituck Bridge), 12% (Wright Memorial Bridge)
- Summer Weekend Day: 69% (Mid-Currituck Bridge), 31% (Wright Memorial Bridge)
- Non-Summer Weekday: 87% (Mid-Currituck Bridge), 13% (Wright Memorial Bridge)
- Non-Summer Weekend Day: 70% (Mid-Currituck Bridge), 30% (Wright Memorial Bridge)

Estimated Annual Revenue (Thousands)

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Revenue</th>
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<tbody>
<tr>
<td>2013</td>
<td>$7,023</td>
</tr>
<tr>
<td>2020</td>
<td>$19,165</td>
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<tr>
<td>2030</td>
<td>$29,588</td>
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</tbody>
</table>
Annual Gross Revenue Forecasts
Proposed Mid-Currituck Bridge

Summary and Conclusions

- Implementation of Mid-Currituck Bridge Is Critical for Traffic Reasons.
- Distance and Time Savings Alone May Be Sufficient Reason to Construct This Bridge
- Tolls Can Be Relatively High Due to Unique Nature of the Bridge Location and the Potential Toll Customer Market.
- Seasonal Pricing and Other Pricing Mechanisms Should be Considered to Market the Toll Bridge
- This Bridge Could Provide an Important Additional Evacuation Route.