



305 Chestnut Street  
PO Box 1810  
Wilmington, NC 28402  
Ph: (910) 341-3258  
Fax: (910) 341-7801  
www.wmpo.org

April 11, 2017

**Mr. Dan Cumbo, PE**  
Davenport Transportation Consulting  
P.O. Box 15997  
Wilmington, NC 28408

RE: Approval of the Traffic Impact Analysis (TIA) associated with the proposed  
**Buy Quick Development**  
New Hanover County, NC

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The WMPO, NCDOT, and New Hanover County staffs have reviewed the Buy Quick Development Revised TIA dated February 17, 2017. This Development consists of:

- 16 VFP - Gas Station with Convenience Mart and Car Wash
- 8,000 sf of office

We concur with the recommendations of the TIA as stated below with modifications in **red**:

US 17 Business (Market Street) and SR 2734 (Marsh Oaks Drive)/SR 2290 (Mendenhall Drive)  
(existing signal)

- Current U-4902 C/D Plans
  - Extension of the existing northbound left-turn lane to 500 feet of storage
- Improvements by Amberleigh Shores Phase II TIA
  - Provide 400 ft southbound left-turn lane with appropriate deceleration and taper lengths
  - Modify the signal for traffic exiting Marsh Oaks Drive to require the right-turn yield to the U-turn
- Improvements by Buy Quick TIA
  - No improvements recommended

US 17 Business (Market Street) and Bump Along Road (existing full movement; RI/RO with U-4902 C/D)

- **Construct a dedicated southbound right-turn lane from Bump Along Road to Mendenhall Drive. This turn lane will tie into the U-turn bumpout being provided by U-4902D**

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Wilmington Urban Area Metropolitan Planning Organization

City of Wilmington • Town of Carolina Beach • Town of Kure Beach • Town of Wrightsville Beach  
County of New Hanover • Town of Belville • Town of Leland • Town of Navassa • County of Brunswick  
County of Pender • Cape Fear Public Transportation Authority • North Carolina Department of Transportation

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US 17 Business (Market Street) and the southbound to northbound U-turn (approx. 800 feet south from Alexander Road) – constructed with U-4902

- Current U4902 C/D plans
  - Provide an exclusive southbound U-turn lane on Market Street with 300 feet of storage and appropriate taper
- Improvements by Buy Quick TIA
  - **Install a traffic signal for the U-turn movement**

Bump Along Road and Site Access 1 (full movement)

- **Site Drive 1 must be located on Bump Along Road so that it provides a minimum corner clearance of 100 ft from Market Street**

Bump Along Road and Site Access 2 (full movement)

- No improvements are recommended

SR 2146 (Raintree Road) and Site Access 3 (full movement)

- Provide interconnectivity of the development site to Raintree Road by providing a two-way, two lane road connection matching the pavement width and typical section at the property line

If changes are made to the proposed site driveways and/or use, the current trip distribution may need to be modified and would require a revised Traffic Impact Analysis to be submitted for review by the NCDOT, WMPO, and New Hanover County. This approval would become null and void.

The applicant is required to obtain all applicable New Hanover County and NCDOT permits for access to the road network. All applicable NCDOT and New Hanover County technical standards and policies shall apply.

Please contact me at 910-473-5130 with any questions regarding this approval.

Sincerely,



Amy Kimes, PE  
Project Manager  
Wilmington Metropolitan Planning Organization

Cc: Ben Hughes, PE, District Engineer, NCDOT  
Matthew T. Carlisle, PE, Deputy District Engineer, NCDOT  
Kirsten Spirakis, PE, Development Review Engineer, NCDOT  
Jessi Leonard, PE, Division Traffic Engineer, NCDOT  
Stoney Mathis, PE, Deputy Division Traffic Engineer, NCDOT

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Sam Burgess, Senior Planner, New Hanover County  
Brad Schuler, Planner, New Hanover County  
Don Bennett, City Traffic Engineer, City of Wilmington  
Denys Vielkanowitz, PE, Signal Systems Management Engineer, City of Wilmington  
Bill McDow, Transportation Planner, WMPO  
Mike Kozlosky, Executive Director, WMPO