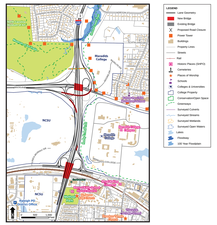
I-440 IMPROVEMENTS
Walnut to Wade
STIP #U-2719 Wake County

Wade Avenue and Hillsborough Street Interchanges

STEP 1 - Initial Sketches

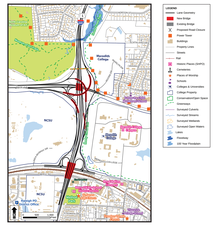
ONE FLYOVER



Screening Results (plus below left)

- This option would have slightly better traffic operations than the other options.
- The loop ramp proposed from eastbound I-440 to westbound Wade Avenue would lengthen the weaving area on westbound Wade Avenue between I-440 and Blue Ridge Road.

TWO FLYOVERS



Screening Results (plus below left)

- The second flyover would carry more traffic than the loop it replaces from the One Flyover option. However, the weaving area on westbound Wade Avenue between I-440 and Blue Ridge Road would be shorter.

SLIGHT DETOUR

Screening Results (plus below left)

- Traffic from Hillsborough Street that wants to get on eastbound I-440 would first travel through the traffic signal on Wade Avenue. This option minimizes new right of way needs compared to the other options.

PLUS

Additional Screening Results for ALL FIVE Options (Retained and Eliminated)

- All options improve traffic operations compared to widening I-440 only. Average speeds on I-440 in the year 2035 would be 6-8 mph faster in the AM and 3-7 mph faster in the PM.
- All options avoid impacting the pedestrian bridge over I-440 but all impact the Reedy Creek Greenway section that runs through Meredith College.
- All options would need new right of way from NC State University Club.
- All options would need new right of way from Meredith College, with the Reduced Access and Slight Detour options requiring slightly less.

PLUS

REDUCED ACCESS

ELIMINATED

Screening Results (plus left)

- This option eliminates a direct connection between Wade Avenue and Hillsborough Street. This improves traffic flow through the I-440 corridor but would also divert traffic to Blue Ridge Road and Faircloth Street, further congesting these roads.
- This option would impact the ability of the road network to clear traffic from major events at the State Fairgrounds, Carter Finley Stadium, NC Museum of Art, etc.

COLLECTOR-DISTRIBUTOR (C-D) WEAVE AND BRAID

ELIMINATED

Screening Results (plus left)

- This option retains a weaving section at the Wade Avenue interchange between the westbound I-440 on ramp and off ramp, although it is moved to an adjacent collector-distributor (C-D) lane.
  Traffic from the Lake Boone Trail westbound I-440 on ramp interacts with traffic exiting I-440 to get on this C-D.
  This configuration is less desirable than other options.

STEP 2 - Conceptual Designs Recommended for Detailed Study

ONE FLYOVER

TWO FLYOVERS

SLIGHT DETOUR