Witchduck Rd – Temporary Traffic Control
Virginia Beach, VA
Witchduck Road

Located in Virginia Beach, VA
4 Lane Arterial
Current ADT = 53,300 VPD
Connects I-264 to Virginia Beach Boulevard
Witchduck Road

I-265 constructed as a 4-lane toll road in 1967.

Traffic has increased tenfold since 1967, and I-264 has been widened to 8 lanes.

Daily congestion along mainline and at interchanges.

Current improvements include reconfiguring the Newtown Road and Witchduck Road interchanges. ($364 Million)
Witchduck Road

Existing Configuration:
4 lanes with traffic signals at:
- I-264 Off Ramp
- Cleveland Street
- Virginia Beach Boulevard

Proposed Configuration:
6 lanes with intersection improvements including dual left turn lanes.

Southern Blvd/I-264 On-Ramp intersection realigned and signalized.

Overhead Utilities relocated into underground duct bank.
Witchduck Road

Construction Cost Estimate:
$23,076,346 (10% Contingency)
Witchduck Road

Maintenance of Traffic
13 Phases of Construction (including sub-phases)

43 Plan Sheets

189 sheet Transportation Management Plan

Minimizing detours required significant amounts of night time work, including weekends.
Witchduck Road

Maintenance of Traffic – Phase A

Construct 16-inch water main from I-264 to Cleveland Street.
Nighttime work (9:00 pm to 5:00 am)
Requires removal of the median, and replacement with temporary pavement.
Witchduck Road

Maintenance of Traffic
Phase A
Water Main - Stage 1

Work permitted only on Friday and Saturday night (9:00 PM to 5:00 AM)

Detours permitted during those hours.
Witchduck Road

Maintenance of Traffic
Phase A
Water Main - Stage 2

Work permitted only on Friday and Saturday night (9:00 PM to 5:00 AM)

Traffic maintained on Witchduck Road with police presence.

Cleveland Street detoured overnight.
Maintenance of Traffic Phase 1A

Permanently close Admiral Wright intersection

Construct utility duct bank.

Sidewalk constructed to maintain pedestrian traffic
Witchduck Road

Maintenance of Traffic Phase 1A

Construct utility duct bank.

Construct storm sewer for Housing Resource Center site. Storm sewer construction completed between 9:00 pm and 5:00 am.

No detours.
Witchduck Road

Maintenance of Traffic
Phase 1B

Install temporary signals at I-264 off-ramp and Southern Boulevard.

Install permanent signal at Virginia Beach Boulevard.

No detours.
Witchduck Road

Maintenance of Traffic
Construct Mac Street

Construction up to, but not including the cul-de-sac, occurs in Phase 1A and 1B.

Provides detour for construction of Southern Boulevard.

Work at intersection of Mac and Southern must occur between 9:00 am and 5:00 pm.

No detours.
**Witchduck Road**

**Maintenance of Traffic Phase 1C**

Construct Southern Boulevard, and install permanent signal at intersection.

Southern is closed during this phase, and traffic is maintained along Mac Street and Cleveland Street.
Witchduck Road

Maintenance of Traffic - Phase 1D

Complete utility duct bank and relocate utilities
Permanently close Mac Street and construct cul-de-sac
Detour Cleveland Street to construct duct bank

Complete sidewalk on east side of Witchduck Road
Construct BMP #1 on east side
Witchduck Road

Utility Duct Bank

Jack and Bore crossing of Witchduck
Witchduck Road

Utility Duct Bank

Open cut construction of duct bank
Witchduck Road

Maintenance of Traffic
Phase 1E

Construction of 300-ft of 72-inch storm sewer under Greenwich Road.

Continuous operation from Friday night at 9:00 pm through Monday morning at 5:00 am.

Constructed to relieve overburdened dual trunk storm sewer on Witchduck Road.
Witchduck Road

Remove existing median from Cleveland Street to Virginia Beach Boulevard, and install temporary signal at Cleveland Street.

Night time work hours (9:00 pm to 5:00 am).

No detours.
Widen Witchduck Road to the east and install permanent signal at I-264 off ramp.

Overnight lane closures permitted on I-264 Off Ramp, with one weekend closure for full depth pavement replacement.
Witchduck Road

**Maintenance of Traffic - Phase 3B**

Construct 16-inch water main, widen Witchduck Road to the east and widen Cleveland Street to the south.

Work within Virginia Beach Boulevard was required to be overnight operations. This resulted in 5 stages of construction to complete the water main.
Witchduck Road

Construct BMP #2, widen Witchduck Road to the west, and widen Cleveland Street to the north.

Note: BMP#2 already constructed, approximately 1 year ahead of schedule.
Witchduck Road

Maintenance of Traffic
Phase 4A

Regional BMP providing 1,200,000 cubic feet of volume.

Receives flow from Witchduck Road storm sewer system (36-inch) and existing 54-inch storm sewer.

Constructed without impacting traffic one year ahead of schedule.
Witchduck Road

Complete full depth reconstruction of Cleveland Street.

Note: Cleveland Street has been widened to both sides already, leaving one lane to be reconstructed in the center. Contractor will be working within the both lanes of travel.

No detours.
Witchduck Road

Maintenance of Traffic – Final Phases

Phase 5: Install traffic control equipment and pavers in median.

Phase 6: Activate all proposed signals, place final pavement lifts and pavement markings.
Witchduck Road

QUESTIONS?