Woodrow Wilson Bridge Project

REVIEW OF NOISE ABATEMENT PLAN

June 25, 2007
Partnership
General Engineering Consultant
Potomac Crossing Consultants

General Engineering Consultant (GEC) Joint Venture

- Parsons Brinckerhoff
- URS Corporation
- Rummel Klepper & Kahl
- 13 Active Subconsultants (8 DBE’s)
Overall Project Limits

Study Area for this Meeting

- Telegraph Road
- US Route 1
- River Crossing
- I-295
- MD-210
View of the Virginia Approach Spans, looking east from Washington Street Deck, July 17, 2006
View looking south at the U.S. Route 1 Interchange
Noise Barriers from Route 1 to the River

Route 1 Interchange
Noise Analysis Process

- Verify land use and potential noise sensitive areas
- Establish noise measurement locations
- Complete ambient noise measurements
- Use FHWA Traffic Noise Model (TNM) computer modeling to establish the Existing, No-build and Build conditions
- Determine traffic noise impacts – 66 dBA or 10 dBA increase over existing
- If impacts exist, determine if there are feasible and reasonable measures that will abate the impacts
- Present results to VDOT Noise Abatement Committee
- Incorporate recommended abatement into construction documents
Noise Barriers:
Route 1 (West Side and Patrick Street), Church Street, and Northwest Trail (Freedmen’s Cemetery Park)
View looking northwest across Route 1 toward Lee Center
View looking south down Patrick Street
Close-up of Patrick Street wall showing brick coloring process
View looking west along Church Street
View looking northwest across deck toward Freedmen’s Cemetery Park noise barrier
Southeast Trail, Southwest Trail, and Hunting Terrace Barriers
View looking northwest at barrier along Hunting Terrace parking lot
View looking west along Southwest Trail barrier for Hunting Terrace
View looking east at Southeast Trail barrier for Hunting Towers
Northeast Trail Barrier

Northeast Trail

Transparent Section on Bridge
View looking southeast at Northeast Trail barrier by St. Mary’s
Artist’s rendering looking west along transparent barrier on bridge