

27.0 TECHNICAL REPORTS, SUPPORTING DOCUMENTATION, AND RELATED STUDIES

This Section presents a list of the documents that were used in the development of the Norfolk LRT Draft and Final EIS. These technical reports are on file at the offices of the Transportation District Commission of Hampton Roads and available for viewing during regular business hours. For information on viewing these documents please contact Ms. Jayne Whitney at Hampton Roads Transit, 1500 Monticello Ave., Norfolk, Virginia, 23501, (757) 222-6000, FAX (757) 222-6135.

27.1 Technical Reports

1. **Supplemental Draft Environmental Impact Statement, Volume 1.** URS/PBQD, January 2003.
2. **Final Environmental Impact Statement, Volume II 30% Design Drawings.** URS/PBQD, November 2004
3. **Operating and Maintenance Cost Methodology Report; Norfolk MOS Light Rail Transit Project SDEIS.** Manuel Padron & Associates, May 2001.
4. **Transit Operations Plans and O & M Cost Results Report (Appendix D); For Norfolk MOS Light Rail Transit Project FEIS.** Manuel Padron & Associates, November 2004.
5. **Transit Operations and Maintenance Plan;** Manuel Padron & Associates, September 2004
6. **Rail Fleet Management Plan Norfolk LRT Project.** Manuel Padron & Associates, September 2004
7. **Bus Fleet Management Plan; Norfolk LRT Project.** Manuel Padron & Associates, August 2004
8. **Capital Cost Estimating Methodology Report.** BRW/PB Team, January 2001.
9. **Capital Cost Results Report; (Review Draft) Norfolk LRT project.** PBQD, October 2002
10. **Supplement to October 2002 Capital Cost Results Report; Norfolk LRT project.** PBQD, August 2003

11. **Norfolk LRT Vehicle Storage and Maintenance Facility – Traffic Impact Study.** URS Corp. May 2003
12. **Norfolk LRT Vehicle Storage and Maintenance Facility – Light Repair facility- Catalog Cuts;** PBQD. October 2004
13. **Patronage Forecasting Methods Report, Final; Norfolk LRT PE/FEIS.** AECOM Transportation, September 2003.
14. **Patronage Forecasting Results Report; Norfolk LRT PE/FEIS.** AECOM Transportation, November 2004.
15. **Phase I Cultural Resources Survey for the Norfolk LRT Project.** Gray & Pape, Inc., October 2001.
16. **Station Design Report Norfolk LRT Project.** URS Corp, September 2004
17. **Before and After Study – Detailed Work Plan; Norfolk LRT Project.** URS Corp, November 2004
18. **Preliminary Geotechnical Evaluation Report, Norfolk Light Rail Transit Project.** Law Engineering, June 2001.
19. **Preliminary Geotechnical Design Report, Norfolk LRT Project.** ECS Ltd, January 2004
20. **Preliminary Geotechnical Data Report, Norfolk LRT Project.** ECS Ltd, April 2004
21. **Proposed Geotechnical Work Plan for Final Design, Norfolk LRT project.** ECD Ltd, November 2004
22. **Compendium of Safety Documents Norfolk LRT project (Draft).** PBQD, September 2004
23. **Traffic Operations, Grade Crossings, and Parking Study, (Appendix C).** URS Corp, June 2004
24. **Noise and Vibration Technical Report (Appendix E), Norfolk LRT Project.** URS Corp., November 2004.
25. **Preliminary (Hazardous Material) Assessment Report.** URS Corp. May 2004
26. **Air Quality Technical Report (Appendix G), Norfolk LRT Project.** URS Corp., November 2004.
27. **Scoping Information Booklet; Norfolk LRT Supplemental DEIS.** BRW, Inc., November 2000.
28. **Scoping Summary Report for the Norfolk Light Rail Transit Project Supplemental Environmental Impact Statement.** BRW, Inc., March 2001.
29. **Economic/Land Development Impacts of Proposed Light Rail Transit System; Technical Memorandum 3.2.4.** Basile Baumann Prost & Associates, Inc., October 1998.

30. **Financial Analysis Methodology Report (Final); Norfolk LRT.** AECOM Transportation, December 2004.
31. **Financial Analysis Results Report (Appendix F); Norfolk LRT.** AECOM Transportation, October 2004
32. **Description of the LRT Build Alternative, Norfolk Light Rail Transit Project.** BRW, Inc., August 2001.
33. **Regional and Sub-Regional Demographic Evaluation of Proposed Light Rail Transit System; Technical Memorandum 3.2.4.** Basile Baumann Prost & Associates, Inc., October 1998.
34. **Transit Economic Impact/Joint Development of Proposed Light Rail Transit System; Technical Memorandum 3.3.1.** Basile Baumann Prost & Associates, Inc., September 2001.
35. **Transit Technology Information Report.** BRW, Inc. April 2001.

27.2 Related Reports and Studies

1. **Norfolk-Virginia Beach LRT System East/West Corridor Project, Final Environmental Impact Statement.** Parsons Brinckerhoff, BRW, Inc., March 2000.
2. **Financial Analysis Methodology Report (Final); Norfolk-Virginia Beach LRT.** AECOM Transportation, August 1998
3. **Functional Design Criteria (Final); Norfolk-Virginia Beach LRT System.** Parsons Brinckerhoff, BRW, Inc., July 2001.
4. **Proposed 20 Year Transit Plan for the Hampton Roads 2026 Long Range Transportation Plan.** Manuel Padron & Associates. November 2003.
5. **Analysis of Light Rail Transit Benefits, Norfolk and Virginia Beach Corridor.** ZHA, Inc. and Douglas & Douglas, December 1988.
6. **Hampton Roads 2021 Regional Transportation Plan.** HRPDC, July 2001.
7. **Analysis of Transportation Improvements for the Southwest Area.** VDOT, Norfolk, Virginia, June 1990.
8. **Commuting in Hampton Roads.** Hampton Roads Planning District Commission, October 1997.
9. **Congestion Management System for Hampton Roads, Virginia.** Hampton Roads Planning District Commission, November 1997.
10. **Congestion Mitigation and Air Quality Program.** Hampton Roads Planning District

Commission, April 1998.

11. **Congressional Briefing Packet; Norfolk-Virginia Beach Light Rail Project.** BRW, Inc., TTDC, January 1997.
12. **Defining Personal Mobility Needs of the Unserved in Hampton Roads; Volume I, Main Report.** Robert B. Case, PE, Hampton Roads Planning District Commission, January 1998.
13. **Defining Personal Mobility Needs of the Unserved in Hampton Roads.** Hampton Roads Planning District Commission, April 1998.
14. **Defining Personal Mobility Needs of the Unserved in Hampton Roads (Appendices).** Hampton Roads Planning District Commission, April 1998.
15. **Downtown 2000 Update.** City of Norfolk, Virginia, September 1997.
16. **Downtown Electric Planning Report.** Glatting Jackson Kercher Anglin Lopez Rinehart, Inc. and UDA Architects, February 1998.
17. **Downtown Norfolk Corridor Study, St. Paul's Boulevard / Brambleton Avenue Connector, Location Summary.** VDOT, 1990.
18. **Downtown Norfolk Corridor Study, Final Environmental Impact Statement, St. Paul's Boulevard / Brambleton Avenue Connector Route 460.** VDOT, December 1992.
19. **Environmental Screening Technical Report; Norfolk-Virginia Beach Light Rail Transit Project Major Investment Study.** BRW, Inc., May 3, 1996.
20. **Guidelines for Modeling Carbon Monoxide from Roadway Intersections.** USEPA, 1992.
21. **Guidance Manual for Transit Noise & Vibration Impact Assessment.** FTA, April 1995.
22. **Compliance Guidelines for States with New Starts Projects.** FTA, June 2000
23. **Considering Cumulative Effects Under the National Environmental Policy Act.** Council on Environmental Quality, January 1997.
24. **Guidelines for Design of Rapid Transit Facilities.** APTA, 1981.
25. **Hampton Roads Crossing Study, Draft Purpose and Need Statement and Technical Appendix.** VDOT, July 1994.
26. **Hampton Roads Crossing Study, Final Purpose and Need Statement and Technical Appendix.** VDOT, November 1994.
27. **Hampton Roads Crossing Study Traffic Model Methodology Report.** COMSIS Corporation and Fitzgerald & Halliday, Inc., April 1996.
28. **Hampton Roads 2015 Regional Transportation Plan.** Hampton Roads Planning District Commission, May 1995.

29. **Hampton Roads Access Management Model.** Hampton Roads Planning District Commission, June 1997.
30. **Intermodal Management System Regional Freight Movement.** Hampton Roads Planning District Commission, April 1998.
31. **Naval Base Segment Light Rail Transit Alternatives; Draft Locally-Preferred Alternative Report.** September 1998.
32. **A New Look for 21st Street and Colley Avenue.** James R. Urban, ASLA, March 1995.
33. **Norfolk Downtown Trolley Evaluation Report.** BRW, Inc., June 24, 1996.
34. **Norfolk General Plan.** City of Norfolk, Virginia, Adopted January 28, 1992.
35. **Norfolk Zoning Map.** City of Norfolk, Department of City Planning and Codes Administration, March, 1998.
36. **Norfolk-Virginia Beach Corridor Major Investment Study, Volumes 1, 2, 3, 4, & 5.** BRW, Inc., April 1996.
37. **Planning for Restoration of Rail Passenger Service, Final Report.** Wilbur Smith Associates, Parsons Brinckerhoff Quade & Douglas, Inc., E.L. Hamm & Associates, February 1988.
38. **Rail Systems Analysis and Fixed Guideway Service Plan, Executive Summary.** BRW, Inc., KPMG Peat Marwick, Manuel Padron & Associates, URS Consultants, September 1991.
39. **Rail Systems Analysis and Fixed Guideway Service Plan, Final Report.** BRW, Inc., KPMG Peat Marwick, Manuel Padron & Assoc., URS Consultants, September 1991.
40. **Realignment of F/A-18 Aircraft and Operational Functions from Naval Air Station (NAS) Cecil Field, Florida, to Other East Coast Installations; Final Environmental Impact Statement.** Department of the Navy, March 1998.
41. **“Reinventing the Wheel.”** Port Folio Weekly, November 11-17, 1997.
42. **Traffic and Transportation Supplementary Technical Report, Downtown Norfolk Corridor Study, St. Paul’s Boulevard / Brambleton Avenue Connector Route 460.** VDOT, January 1989.
43. **Transit Development Program, July 1996.** Tidewater Transportation District Commission, 1996
44. **Transportation Improvement Program (TIP), 1998-2002.** Hampton Roads Planning District Commission, 1998.
45. **Uniform Relocation Assistance & Real Property Acquisition Policy Act of 1970.** Code of Federal Regulations, Title 49, Volume 1, Parts 1-99, Revised as of October 1, 1977.