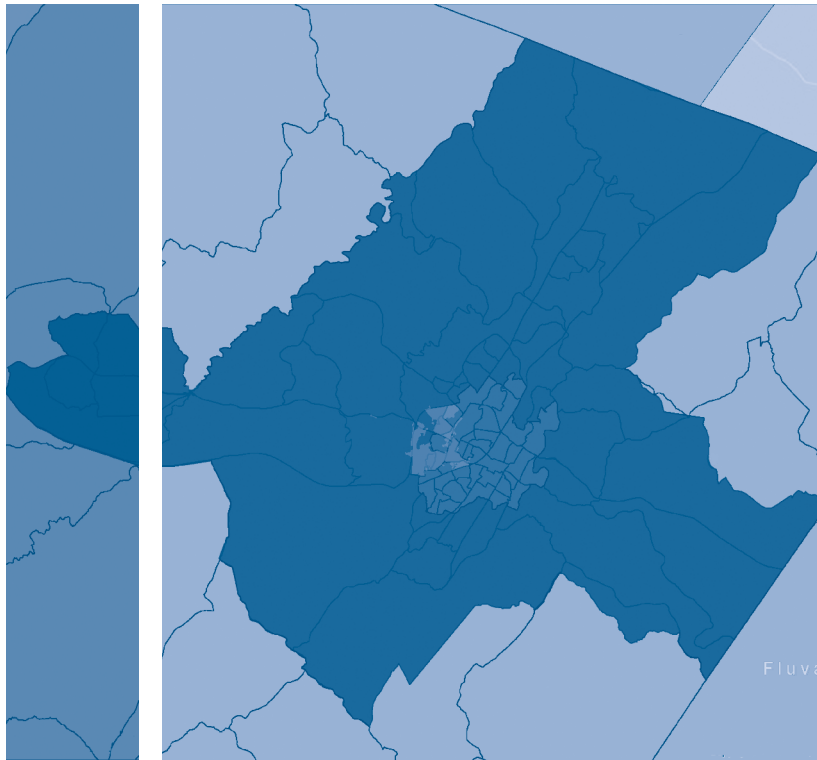
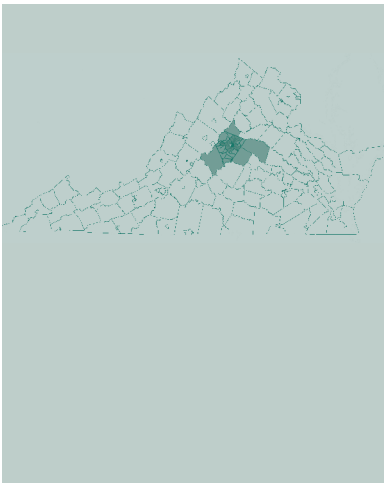


Approved by the
MPO Policy Board

May 28th 2014



Charlottesville/Albemarle MPO
Long Range Transportation Plan



Thomas Jefferson
Planning District Commission

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MPO Staff

- Chip Boyles, Executive Director
- Jaclyn Garet, Long-Range Transportation Planning Intern
- Wood Hudson, Senior Environmental Planner
- Ryan Pace, Graphics Associate
- Sarah Rhodes, MPO Program Manager

MPO Policy Board

- Kristin Szakos, Charlottesville City Council (Chair)
- Ann Mallek, Albemarle County Board of Supervisors (Vice-Chair)

» *Voting Members*

- Satyendra Huja, Charlottesville City Council
- John D. Lynch, District Administrator, VDOT Culpeper District
- Brad Sheffield, Albemarle County Board of Supervisors

» *Non-voting Members*

- Tony Cho, Federal Transit Administration
- John Jones, Charlottesville Area Transit
- Mac Lafferty, Citizens Transportation Advisory Committee
- Julia Monteith, UVA Office of the Architect
- Ivan Rucker, Federal Highway Administration
- Donna Shaunesey, JAUNT
- Emily Stock, Virginia Department of Rail and Public Transit

MPO Technical Committee

- Jeanette Janiczek, Charlottesville VDOT Program Manager (Chair)
- David Benish, Albemarle Chief of Planning (Vice-Chair)

» *Voting Members*

- Glenn Brooks, Albemarle County Engineer
- Bruce Dotson, Albemarle County Planning Commission

- Lisa Green, Charlottesville Planning Commission
- Lisa Horanyi, RideShare Manager
- John Jones, Charlottesville Area Transit
- Jonathan Monceaux, UVA Dept. of Parking and Transportation
- Judy Mueller, City of Charlottesville, Dept. of Public Works
- Bill Palmer, UVA Office of the Architect
- Charles Proctor, VDOT Planning and Land Development
- Donna Shaunesey, JAUNT
- Emily Stock, Virginia Department of Rail and Public Transit

» *Non-voting Members*

- P. Clifford Burnette, Virginia Department of Aviation
- Tony Cho, Federal Transit Administration
- Ivan Rucker, Federal Highway Administration

Citizens Transportation Advisory Committee (CTAC)

Mac Lafferty, County Planning Commission (Chair)
Alec Gosse, MPO (Vice-Chair)

» *Voting Members*

- Stephen Bach, MPO
- Frances Hooper, County At-Large
- David Hurst, City At-Large
- John Pfaltz, City At-Large
- David Shreve, County At-Large

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- Rodney Thomas, former County representative of the MPO Policy Board
- Jim Utterback, former VDOT representative of the MPO
- Stephen Williams, former Executive Director of the Thomas Jefferson Planning District Commission

▶ Disclaimer

This report has been prepared in cooperation with, and financed in part, by the U.S. Department of Transportation - Federal Highway Administration, the Federal Transit Administration, the Virginia Department of Transportation, and the Virginia Department of Rail and Public Transportation. The contents of this report reflect the views of the Thomas Jefferson Planning District Commission and Charlottesville-Albemarle Metropolitan Planning Organization, which are responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the Federal Highway Administration, Federal Transit Administration, the Virginia Department of Transportation, or the Virginia Department of Rail and Public Transportation. This report is not a legal document, and does not constitute a standard, specification, or regulation. Although much care was taken to ensure the accuracy of information presented in this document, TJPDC does not guarantee the accuracy of this information.

Acceptance of this report as evidence of fulfillment of the objectives of this planning study does not constitute endorsement/approval of the need for any recommended improvement, nor does it constitute approval of their location and design or a commitment to fund any such improvements. Additional project level environmental impact assessments and/or studies of alternatives may be necessary.

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Additional copies of this document may be obtained by contacting:

401 East Water Street
P.O. Box 1505
Charlottesville, VA 22902-1505

(434) 979-7310 | fax (434) 979-1597
info@tjpd.org | www.tjpd.org



Charlottesville-Albemarle Metropolitan Planning Organization
 POB 1505, 401 E. Water Street, Charlottesville, VA 22902 www.tjpd.org
 (434) 979-7310 phone • (434) 979-1597 fax • info@tjpd.org email

Resolution Adopting 2040 Long Range Transportation Plan

WHEREAS, the U. S. Department of Transportation (DOT) requires that each urbanized area over 50,000 population prepare a Long Range Transportation Plan to be updated every five years; and,

WHEREAS, a Metropolitan Planning Organization (MPO) has been designated for the Charlottesville-Albemarle Urbanized Area; and,

WHEREAS, the MPO’s 2040 Long Range Transportation Plan (2040 LRTP) addresses future planned transportation projects in the City of Charlottesville and the urbanized planning area of Albemarle County over the next 20 years; and,

WHEREAS, the major goal for the MPO’s 2040 LRTP is to create and advance a balanced, regional, multimodal transportation network; and,

WHEREAS, the MPO led the efforts to complete the 2040 LRTP with a public outreach campaign conducted to solicit input from the community; and,

WHEREAS, this update is required to meet Federal Highway Administration requirements, the deadline for which is the end of May 2014; and,

WHEREAS, the MPO recognizes the ongoing Route 29 Solutions process regarding the US 29 Bypass project and that this process, once completed, could greatly impact this 2040 LRTP; and,

WHEREAS, the MPO recognizes that the State’s Commonwealth Transportation Board (CTB) is in the process of considering recommendations from the Route 29 Solutions process and is anticipated to make a decision regarding these recommendations at the June 18, 2014 CTB meeting; and,

WHEREAS, the MPO recognizes that the CTB’s decision regarding the Route 29 Solutions process may require the review and amendment of this 2040 LRTP in July 2014.

THEREFORE BE IT RESOLVED THAT the Charlottesville-Albemarle MPO approves the 2040 Long Range Transportation Plan, pending approval from the Federal Highway Administration and the Federal Transit Administration.

Adopted the 28th day of May, 2014, by the MPO Policy Board.

ATTESTED:


 Kristin Szakos, Chair
 Charlottesville-Albemarle MPO Policy Board

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► List of Acronyms

AADT	Average Annual Daily Traffic
AASHTO	American Association of State Highway and Transportation Officials
ACCT	Alliance for Community Choice in Transportation
ACS	American Community Survey
ADA	Americans with Disabilities Act
BMP	Best Management Practice
BRT	Bus Rapid Transit
CAT	Charlottesville Area Transit
CLRP	Constrained Long Range Plan
CMAQ	Congestion Mitigation and Air Quality
CSR	Center for Survey Research
CTAC	Citizens Transportation Advisory Committee
CTF	Commonwealth Transportation Fund
DEQ	Department of Environmental Quality, Virginia
DMV	Department of Motor Vehicles
E+C	Existing and Committed
EJ	Environmental Justice
EPA	Environmental Protection Agency
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
FY	Fiscal Year (refers to the state fiscal year July 1 - June 30)
GA	General Aviation
HSIP	Highway Safety Improvement Program
HUD	Housing and Urban Development, U.S. Department of
ISTEA	Intermodal Surface Transportation Efficiency Act
JAUNT	Regional transit service provider to Charlottesville City, and Albemarle, Fluvanna, Louisa, Nelson, and Buckingham Counties
LAB	League of American Bicyclists
LOS	Level of Service
LRTP	Long Range Transportation Plan, also referred to as 2040 LRTP
LRT	Light Rail Transit
MAP-21	Moving Ahead for Progress in the 21st Century
MOVES	Motor Vehicle Emission Simulator

MPO	Metropolitan Planning Organization
NGIC	National Ground Intelligence Center
NHPP	National Highway Performance Program
NHS	National Highway System
OTAQ	Office of Transportation and Air Quality
PDC	Planning District Commission
PE	Preliminary Engineering
REF	Regional Ecological Framework
RTA	Regional Transit Authority
SAFETEA-LU	Safe, Accountable, Flexible, Efficient, Transportation Equity Act
SHRP2	Second Strategic Highway Research Program
SHSP	State Strategic Highway Safety Plan
SPR	State Planning and Research Funding (used by VDOT to support MPO)
STP	Surface Transportation Program
SYIP	Six Year Improvement Program
TA	Transportation Alternatives
TCAPP	Transportation for Communities - Advancing Projects through Partnerships
TDM	Travel Demand Management
TDP	Transit Development Plan (for CAT and JAUNT)
TEA-21	Transportation Efficiency Act for the 21st Century
TIP	Transportation Improvement Program
TJPDC	Thomas Jefferson Planning District Commission
TMPD	VDOT Transportation and Mobility Planning Division
TRB	Transportation Research Board
UPWP	Unified Planning and Work Program (also referred to as Work Program)
UnJAM	United Jefferson Area Mobility Plan
UTS	University Transit Service
UVA	University of Virginia
SOV	Single Occupant Vehicle
V-C	Volume-to-Capacity Ratio
VCTIR	Virginia Center for Transportation Innovation and Research
VDOT	Virginia Department of Transportation
VDRPT	Virginia Department of Rail and Public Transportation
VMT	Vehicle Miles Traveled

A full Glossary of Terms and definitions is available at the end of the 2040 L RTP document, in Appendix C.

► Executive Summary

Housed within the Thomas Jefferson Planning District Commission, a regional planning commission located in central Virginia, is the Charlottesville-Albemarle Metropolitan Planning Organization (MPO). Composed of the City of Charlottesville and a portion of Albemarle County, the Charlottesville-Albemarle MPO is the forum for continuing, cooperative and comprehensive transportation planning and decision-making among Charlottesville, Albemarle, state and federal officials. The MPO collaborates with various agencies, facilitates public input, and conducts its own research and analysis to develop forward-thinking solutions for the region's transportation system.

One of the recurrent responsibilities of the Charlottesville-Albemarle MPO is the creation of a Long Range Transportation Plan (LRTP): a federally mandated plan that outlines the region's transportation improvements over the several decades to come. The Long Range Transportation Plan is a fundamental document for our community. It states our region's collective vision for the future of our transportation system, and it identifies and budgets for projects that we anticipate our region will implement in the foreseeable future. The LRTP considers all modes of transportation including private vehicles, public transit, bicycles, pedestrians, and air, and covers other transportation issues such as bridge maintenance and safety improvements. Per federal mandate, the Charlottesville-Albemarle MPO's LRTP must be updated every five years. The preceding version, approved by the MPO Policy Board in May 2009, was named the 2035 United Jefferson Area Mobility Plan (UnJAM 2035). The updated plan presented in this document has been named the 2040 Long Range Transportation Plan (2040 LRTP).

With the development of the 2040 Long Range Transportation Plan, the Charlottesville-Albemarle MPO has implemented a new process for evaluating transportation projects; one which leverages the interconnectedness of our transportation system. Rather than assessing the ben-

efits of individual projects in an isolated manner, proposed projects were combined into Scenarios, tested as a system, and compared with other project groupings through a newly developed method of performance measure analysis. A set of 16 Performance Measures, created using federal resources, public comment, and committee input, was used to produce quantitative values for project Scenarios. With these tools, the MPO was able to objectively determine the degree to which various transportation improvements accomplished the region's vision, goals, and objectives, and select the most optimal project combination for achieving them.

The MPO adopted two sets of guiding principles to guide decision-making throughout the process, and to analyze specific planning scenarios in their ability to achieve the vision, goals, and objectives identified by the MPO. These are 1) the Regional Mobility Goals, established by the MPO's committees; and 2) the Eight Planning Factors: federally required goals used in all long range transportation plans. These two sets of guiding principles complement one another and reflect the Regional Vision, which incorporates City and County transportation goals, and aims "to build a comprehensive transportation system for the Charlottesville-Albemarle region, consonant with good land-use planning, socioeconomic cost-effectiveness, and sound financial practice."

Three Rounds of Scenarios were developed and analyzed using the performance measures before the DRAFT Preferred Scenario was created. The DRAFT Preferred Scenario (i.e. the group of transportation improvement projects that were determined by the MPO, transportation staff, and the public, to be the most beneficial for inclusion in the Long Range Plan) was approved by the MPO Policy Board on November 20, 2013. The Preferred Scenario then moved onto the fiscal-constraint process, which ensures sufficient funds to implement the proposed transportation improvements and to operate and maintain the

entire system. The final fiscally-constrained projects are listed in the Fiscally-Constrained Project List, Appendix A of this document.

The 2040 Long Range Transportation Plan describes the region's characteristics and transportation deficiencies; details the region's vision, goals, and objectives; and describes the method of analysis and its findings and conclusions. The 2040 Plan is organized as follows:

Chapter 1: Regional Demographics gives an overview of the region's demographics.

Chapter 2: Transportation Assessment assesses the existing conditions of the region's transportation system.

Chapter 3: 2040 LRTP Overview gives an overview of the LRTP purpose and process.

Chapter 4: Vision, Goals and Objectives outlines the vision, goals and objectives of the LRTP.

Chapter 5: Performance Measurement and Transportation Planning describes the performance measures that were used to assess projects in the LRTP.

Chapter 6: Transportation Deficiencies assesses the regional transportation deficiencies anticipated for our region in 2040.

Chapter 7: Scenarios describes the assessment process for considering road and transit projects for inclusion in the LRTP.

Chapter 8: Overview of Non-Capacity Elements outlines the assessment process for considering bridge, intersection, bike and pedestrian projects for inclusion in the LRTP.

Chapter 9: Constrained Long Range Plan Overview outlines the fiscal-constraint process for the LRTP.

Appendix A: Fiscally Constrained Project List and Visioning Project List

Appendix B: Public Participation Record of Input

Appendix C: Glossary of Terms:

The 2040 Long Range Transportation Plan is a package designed to improve the efficiency and interconnectedness of our facilities and services, and strives to plan for and develop a continuing, cooperative and comprehensive regional transportation system.

We invite you to learn more about the 2040 Long Range Transportation Plan through the pages that follow in this document.