

Table of Contents

Acknowledgements	v-vi
Executive Summary	vii-viii
Chapter 1. Introduction	1
1.1 Background	1
1.2 Why Accommodate Biking and Walking?	1
1.3 Study Area	3
1.4 Brief History of Bicycling and Walking in the Region.....	5
1.5 Planning Framework	6
1.6 Planning Objectives.....	6
1.7 Organization of the Plan	6
Chapter 2. Mission, Vision and Goals	7
2.1 Mission.....	7
2.2 Vision	7
2.3 Goals	7
Chapter 3. Community Input	13
3.1 Community Input	13
3.2 Stakeholder Input.....	15
3.3 Technical Input and Policy Oversight	16
Chapter 4. Review of Existing Conditions.....	17
4.1 Bicycle and Pedestrian Trends.....	17
4.2 Walkability	18
4.3 Bikeability	35
4.4 Transit	43
4.5 Document Review.....	43
Chapter 5. Recommendations to Accommodate Bicycling and Walking	45
5.A Policies, Programs and Regulations for Bicycle and Pedestrian Travel....	45
5.A.1 Balanced Transportation System	45
5.A.2 Sustainable Community Development.....	47
5.A.3 Safety and Security	48
5.A.4 Economic Vitality	50
5.A.5 Quality of Life and Active Living.....	51



5.B Physical Improvements for Bicycle and Pedestrian Travel	53
5.B.1 Complete Streets	53
5.B.2 Local Streets and Minor Collectors	53
5.B.3 Major Collector and Arterial Streets	53
5.B.4 Complete Streets Plans	53
5.B.5 Complete Streets Improvement Plans.....	53
5.B.6 Project Feasibility	60
5.B.7 Project Prioritization	60
5.B.8 Project Implementation	60
5.B.9 Greenway Trail Plans	60
Project Scoring Sheet	61
5.B.10 Trail Feasibility	65
5.B.11 Trail Prioritization	65
5.B.12 Trail Implementation	65
5.B.13 Tertiary Greenway Trails and Recreation Walking Paths.....	65
5.B 14 Regional Rural Bike Routes	65

Chapter 6. Implementation75

6.1 Planning Strategies.....	75
6.2 Project Implementation Strategies.....	76
6.3 Policy Implementation Strategies	77
6.4 Funding Strategies	77
6.5 Partnerships	80
6.6 Public Support and Involvement	80
6.7 Oversight and Evaluation	80

Figures

Figure 1. Study Area - Fayette and Jessamine Counties.....	4
Figure 2. Land Use in Fayette County Urban Service Area	24
Figure 3. Land Use in Jessamine County	25
Figure 4. Public Transportation in Fayette County	26
Figure 5. Schools, Community Centers and Libraries in Fayette County	27
Figure 6. Schools, Community Centers and Libraries in Jessamine County	28
Figure 7. Recreation Areas in Fayette County	29
Figure 8. Recreation Areas in Jessamine County.....	30
Figure 9. Absent Pedestrian Facilities in Fayette County	31
Figure 10. Absent Pedestrian Facilities in Jessamine County.....	32
Figure 11. Absent Pedestrian Facilities Along Major Roads in Fayette County	33
Figure 12. Absent Pedestrian Facilities Along Major Roads in Jessamine County	34



Figure 13. Bicycle Level of Service in Fayette County	38
Figure 14. Bicycle Level of Service in Downtown Lexington	39
Figure 15. Bicycle Level of Service in Jessamine County	40
Figure 16. Existing and Funded Bicycle Facilities in Fayette County.....	41
Figure 17. Existing and Funded Bicycle Facilities in Jessamine County	42
Figure 18. Complete Streets Plan for Fayette County.....	54
Figure 19. Complete Streets Plan for Jessamine County	55
Figure 20. Arterials and Major Collectors in Fayette County with Adequate and Inadequate Accommodation for Pedestrians and Bicyclists	56
Figure 21. Arterials and Major Collectors in Jessamine County with Adequate and Inadequate Accommodation for Pedestrians and Bicyclists	57
Figure 22. Complete Streets Improvement Plan for Fayette County	58
Figure 23. Complete Streets Improvement Plan for Jessamine County	59
Figure 24. Greenway Trails Plan for Fayette County.....	62
Figure 25. Greenway Trails Plan for Jessamine County.....	63
Figure 26. Feasibility of Trails Projects for Fayette County.....	64
Figure 27. Regional Rural Bike Routes	66

Tables

Table 1. Sidewalks in Fayette and Jessamine Counties	20
Table 2. Intersection Audit Data for Fayette and Jessamine Counties	22
Table 3. Compliance of Curbs with ADA Criteria.....	23
Table 4. Fayette and Jessamine Counties Bike Facilities Mileage.....	36
Table 5. Bicycle Level Of Service (BLOS) Ratings.....	37
Table 6. Fayette County BLOS Ratings	37
Table 7. Jessamine County BLOS Ratings	37
Table 8. Feasible Projects	67-68
Table 9. Moderately Constrained Projects.....	69-71
Table 10. Constrained Projects	72-74

Appendices

Appendix A: Existing Conditions	A-1
Study Area Characteristics	A-1
Pedestrian Environment	A-8
Bicycle Environment	A-20

Figures:

Figure A-1. Population Density in Fayette County	A-2
Figure A-2. Population Density in Jessamine County	A-3
Figure A-3. Employment Density in Fayette County	A-4
Figure A-4. Employment Density in Jessamine County	A-5
Figure A-5. Journey to Work - Walking from Place of Residence	A-6



Figure A-6. Journey to Work - Biking from Place of Residence.....	A-7
Figure A-7. Intersections Audited in Fayette County	A-9
Figure A-8. Intersections Audited in Jessamine County.....	A-10
Figure A-9. Pedestrian-Motor Vehicle Crashes in Fayette County.....	A-11
Figure A-10. Downtown Lexington Pedestrian-Motor Vehicle Crashes	A-12
Figure A-11. Pedestrian-Motor Vehicle Crashes in Jessamine County	A-13
Figure A-12. Downtown Nicholasville Pedestrian-Motor Vehicle Crashes	A-14
Figure A-13. Pedestrian Crashes Per Year	A-15
Figure A-14. Pedestrian Crash Types	A-16
Figure A-15. Weather During Pedestrian Crashes	A-17
Figure A-16. Lighting Conditions During Pedestrian Crashes	A-18
Figure A-17. Roadway Characteristics During Pedestrian Crashes	A-19
Figure A-18. Bicycle-Motor Vehicle Crashes in Fayette County	A-21
Figure A-19. Downtown Lexington Bicycle-Motor Vehicle Crashes	A-22
Figure A-20. Bicycle-Motor Vehicle Crashes in Jessamine County	A-23
Figure A-21. Downtown Nicholasville Bicycle-Motor Vehicle Crashes	A-24
Figure A-22. Bicycle Crashes Per Year	A-25
Figure A-23. Bicycle Crash Types	A-26
Figure A-24. Weather During Bicycle Crashes	A-27
Figure A-25. Lighting Conditions During Bicycle Crashes	A-28
Figure A-26. Roadway Characteristics During Bicycle Crashes	A-29

Appendix B: Survey

Appendix C: Public and Stakeholder Meetings

Appendix D: Plan Adoption

Appendix E: Bibliography

