# **Appendices**

- A. Accomplishments Since 2010
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- E. GIS and Equity Score Methodology
- F. Network & Facility Recommendations



# **Appendix A:**

Accomplishments Since 2010



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	Year Completed	Project Name	Project Description	Funding Source(s)	Gr Sou	Grant Funding Source Amount	99	General Fund Amount <sup>o</sup>
-	2010	Port Republic Road Phase 3	New sidewalks (and shared use path) between Peach Grove Avenue to city limits	VDOT Transportation Enhancement*	Ŷ	213,205	Ş	53,203
2	2011	East Market Street Sidewalks Ph II	New sidewalks constructed on the north side of East Market Street from Linda Lane to University Boulevard. New pedestrian signals and crosswalks installed at Linda Lane/ Burgess Rd & East Market St.	VDOT Highway Safety Improvement Program (HSIP)	Ŷ	111,561	Ś	•
ε	2012	East Market Street Sidewalks Ph III	New sidewalks constructed on the south side of East Market Street from University Boulevard to Evelyn Byrd Ave. New pedestrian signals and crosswalks installed at University Boulevard & East	VDOT Highway Safety Improvement Program (HSIP)	Ŷ	239,139	Ŷ	
4	2012	University Boulevard Sidewalks & Pedestrian Signal	New sidewalks constructed on the north side of University Boulevard between East Market St to Evelyn Byrd Avenue. New pedestrian and crosswalks signal installed existing traffic signal.	City General Fund	Ś	1	Ś	204,825
ы	2012	Green Street sidewalks	New sidewalk constructed on north side Green Street from High St towards Chicago Avenue (constructed with sidewalk reconstruction on other portions of Green St)	Community Development Block Grant	Ŷ	74,139	Ŷ	ſ
9	2013	Gay Street Sidewalks	New sidewalks constructed on north side of E Gay St from Sterling St to Summit St.	Community Development Block Grant	Ŷ	91,790	Ŷ	•
~	2013	South Main Street Median at JMU	Between Grace St to Bluestone Dr.	James Madison University	Ŷ	307,836	÷	•
∞	2013	New Pedestrian Signals & Upgraded Accessible Pedestrian Signals	Audiable, sensory communication at various signals, ex. W Market St City General Fund & N High St, W Market St & Waterman Dr, Virginia Ave & Gay St, Virginia Ave & Wolfe St	City General Fund	Ŷ	'	Ş	28,000
თ	2014	East Market Street Sidewalks Ph IV	New sidewalks constructed on south side of East Market St from Carlton St to 400' north of Hawkins St. New pedestrian signals and crosswalks installed at East Market St & Hawkins/ Vine St, and East Market St/ Carlton St	VDOT Highway Safety Improvement Program (HSIP)	Ŷ	368,898	Ŷ	
10	2014	Waterman Elementary School Safe Routes to School Project	New sidewalks constructed in various sections of Virginia Ave between 1st St to 5th St, along the south side of 3rd St between Collicello St to Stuart St, along the east side of Stuart St between 3rd St to Chicago Avenue, and along the west side of Chicago Avenue between Rockingham Drive to 2nd St. New pedestrian signal and crosswalk added at 3rd St & Virginia Ave.	VDOT Safe Routes to School* & Community Development Block Grant	Ŷ	477,202	Ś	•
11	2014	Stone Spring Road Phase III new sidewalks	New sidewalks on north side between Route 42 and 11	VDOT Capital Projects Revenue Bond	Ş	5,176,454	Ş	
12	2014	Wolfe Street sidewalks	New sidewalks on south side between Broad St and Mason St	City General Fund	Ŷ	1	Ş	36,000
13	2014	Downtown Streetscape Phase II	Sidewalk reconstruction and new pedestrian signals on Main St between Bruce St and Court Square	VDOT Transportation Enhancement*	Ŷ	879,268	Ş	219,817
14	2014	Main St & Mosby Rd Pedestrian Signal	New pedestrian signal and crosswalks installed at existing traffic	City General Fund			Ş	156,000
15	2014	Main St & Pleasant Hill Rd Pedestrian Signal	New pedestrian signal and crosswalks installed at existing traffic	City General Fund			Ş	156,000
17	2014	Neir Avenue percestrian crossing Old Town ADA ramps and crossing enhancements	At summars, Abronetum Ham ADA curb ramps and new marked crosswalks and pedestrian warning City General Fund signs added on S Mason St, and at intersections of Paul St/ Ott St and Franklin St/ Muers Ave	city General Fund			Ś	20,000

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-	Completed Project Name	Project Description	Funding Source(s)	Source Amount		Amount°
2010	Central Avenue bike lanes	New bike lanes added on existing pavement from Maryland Avenue to South Avenue	City General Fund	Ŷ	Ŷ	3,500
2010	South Main Street bike lanes	New bike lanes added on existing pavement from Martin Luther King Jr Way to Pleasant	City General Fund	Ŷ	۰ ۲	7,000
		Hill Road				
2010	Park Road bike lanes	New bike lanes added on existing pavement from Mt. Clinton Pike to W Dogwood Dr	City General Fund	ዯ	ۍ ۲	2,000
2010	Vine Street bike lanes Pt I	New bike lanes stripped on existing pavement from N Main St to E Washington St	City General Fund	Ŷ	۰ به	4,000
2010	Main St sharrows	New sharrows from Campbell to Wolfe St	City General Fund	Ŷ	۰ به	5,000
2011	South Avenue bike lanes	New bike lanes added on existing pavement from from RR tracks near South Main	City General Fund	Ŷ	۰ ۲	2,000
		Street to RR tracks near South High Street				
2011	Lucy Drive bike lanes	New bike lanes added on existing pavement from Reservoir Street to Evelyn Byrd Ave	City General Fund	Ŷ	۰ ۲	2,500
2011	N Dogwood Dr, S Dogwood Dr & Hidden	New sharrows from W Market St to Rockingham Dr trail, Hidden Creek to W Market St,	City General Fund	Ŷ	Ŷ	7,500
	Creek sharrows - won't be reinstalled	and Dogwood Dr to High St				
2011	S Main St sharrows	New sharrows from Martin Luther King Jr Way to Campbell St	City General Fund	Ŷ	Ŷ	3,000
2011	Park Road & Birch Dr sharrows - won't be	New sharrows from W Dogwood Dr to Birch Dr, and Park Rd to Virginia Ave	City General Fund	Ŷ	Ŷ	5,000
	reinstalled					
2012	Vine St bike lanes Pt II	New bike lanes stripped from E Washington St to Country Club Road	City General Fund	ዯ	ۍ ۲	1,700
2012	Noll Drive bike lanes	New bike lanes added on existing pavement from N Main St to Liberty St/ Rock St	City General Fund	ዯ	÷	1,500
2013	Liberty Street Sharrows	New sharrows added on Rock St to Martin Luther King Jr Way	City General Fund	ዯ	÷	7,500
2014	Stone Spring Road Phase III new bike lanes	New bike lanes between Route 42 and 11	VDOT Capital Projects	\$ 5,176,454	4	
			Kevenue bond			
2014	Vine Street bike lanes Pt III	New bike lanes striped on existing pavement between Old Furnace Rd to E Market St	City General Fund	Ŷ	Ŷ	1,700
2015	Chicago Avenue bike lanes	New bike lanes added on existing pavement and widened roadway between Gay Street	City General Fund	Ŷ	Ŷ	3,000
2015	N Main Street bike lanes	New bike lanes added on existing pavement between Kratzer Avenue to N Mason St	City General Fund	Ŷ	۰ ب	750
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"General Fund values presented only include the cost of materials and/or contractor for construction. Values do not include staff time to adminster the project, for in-house engineering design, surveying by city, right of way negotiations by city, or use of city forces to construct or install projects.

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	Year				Grant	<b>Grant Funding</b>	Gener	<b>General Fund</b>
	Completed	Completed Project Name	Project Description	Funding Source(s)	Source	Source Amount	A	Amount°
18	2014	Port Republic Rd & Bluestone Dr pedestrian signal	Port Republic Rd & Bluestone Dr pedestrian New pedestrian signal and crosswalks installed at existing traffic signal	James Madison University	Ş	15,000		
19	2014	Bruce Strett & Liberty Street Pedestrian Improvements	Sidewalk widening and decorative patterns on associated with Ice House development	City General Fund & Developer	Ŷ	70,582	Ş	44,452
20	2015	Stone Spring Elementary School Safe Routes to School Project	Stone Spring Elementary School Safe Routes New sidewalk on east side of Peach Grove Avenue between King to School Project Edwards Way and Decca Dr. New traffic and pedestrian signal at school entrance.	VDOT Safe Routes to School*	Ś	226,188	÷	1
21	2015	Path between Wyndham Drive and Thomas New paved pedestrian access Harrison Middle School	New paved pedestrian access	City General Fund	Ŷ	I	Ŷ	5,000
22	2016	Virginia Avenue & Mt Clinton Pike Pedestrian Signals	New pedestrian signal and crosswalks installed at existing traffic signal.	City General Fund			Ŷ	6,500
23	2016	2016 West Mosby St sidewalk	New pedestrian sidewalk installed between Millwood Loop and Main Community Development Block \$ Street	ו Community Development Block Grant		176,570.00	10	ı

**Total** \$ 8,427,832 \$ 929,797

\*Former VDOT Transportation Enhancement and VDOT Safe Routes to School Grants are now included in the VDOT Transportation Alternatives Program (TAP).

"General Fund values presented only include the cost of materials and/or contractor for construction. Values do not include staff time to adminster the project, for in-house engineering design, surveying by city, right of way negotiations by city, or use of city forces to construct or install projects.

	Year			-	Grant Funding General Fund	Gen
	Completed	Completed Project Name	Project Description	Funding Source(s)	Source Amount	Amount°
7	2010	Port Republic Road Phase 3	Shared use path between Peach Grove Avenue to city limits	VDOT Transportation Enhancement*	\$ 213,205	\$ 53,203
2	2014	Bluestone Trail Project Phase 1A &	Bluestone Trail Project Phase 1A & Shared use path between Stone Spring Road to Port Republic DCR Land & Water Conservation Fund, VDOT	DCR Land & Water Conservation Fund, VDOT	\$ 886,894 \$	\$ 536,208
		1B	Road	Revenue Sharing Program, James Madison		
				University, City General Funds		
m	2014	Geronimo Trail at Hillandale Park	Natural surface path provides pedestrian and bicycle	City General Funds & Community	Darks and Decreation Droject	ation Droject
			connection between Circle Drive and Rocktown Trails at	Organization		
					\$ 1,100,099 \$ 589,411	\$

"General Fund values presented only include the cost of materials and/or contractor for construction. Values do not include staff time to adminster the project, for in-house engineering design, surveying by city, right of way negotiations by city, or use of city forces to construct or install projects.

# **Appendix B:**

Public Workshop Summary



#### **Bicycle and Pedestrian Plan Public Workshop**

City of Harrisonburg Public Works May 19, 2015 At Thomas Harrison Middle School

On May 19, 2015, over 30 citizens, 4 Bicycle & Pedestrian Subcommittee members, and 6 city staff participated in the Bicycle & Pedestrian Plan Workshop. The Workshop was facilitated by the JMU Institute for Constructive Advocacy and Dialogue.

#### VISIONING EXERCISE

The Workshop began with a visioning exercise where participants were asked to respond to various prompts.

# According to the citizens gathered, a good bike and pedestrian network in the City of Harrisonburg <u>includes:</u>

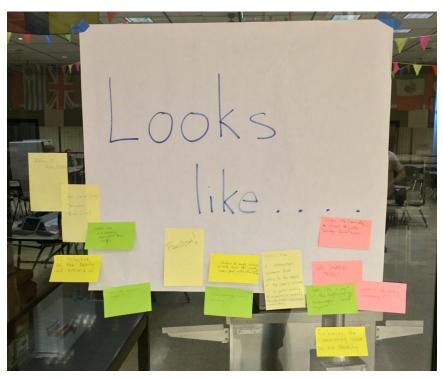
- Safe, multimodal options to all citizens
- As many bike and walkways as possible that are separate from cars and trucks
- Bike Lanes
- Shared use path network
- Sidewalks on every street in the city
- Connections from residential neighborhoods to popular destinations
- Something more substantial than Sharrows
- Complete and accessible paths
- Support along the network to cater to the users (once the network is well-establish) – pump stations, showers, lockers, bike maintenance
- Spending tax dollars to show a preference for selftransportation over motors
- Shared and exclusive facilities
- A complete multi-use path network that connects all major residential areas to schools serving those areas
- Bike/ped facilities to allow transit to all points of the city
- The Northend Greenway that connects with the JMU trail
- All sections of the city limits
- Goals: i.e. increase trips taken by bike by x%, increase kids walking/biking to school by x%



- Out of the box ideas: Encourages creative and can-do process like those of Portland, Madison, Missoula, etc.
- Follow through on laws/policies
- Clear sidewalks
- Following rules of the road (all parties)
- Educational campaign everyone knows their rights and expectations, not just those who walk or bike
- Multiple connections to and through downtown, particularly the Greenway
- Interconnectivity to JMU and the outlying region
- A sidewalk plan (i.e. a schedule to add them, independent of or at least in concert with the paving schedule
- A plan to connect to other major destinations
- Efforts to reduce JMU student car traffic (to make streets safer for everyone)
- Safe connections between people (homes) and places
- Continued focus on making schools priority hubs for installing bike-ped infrastructure

#### A good bike and pedestrian network in the City of Harrisonburg looks like:

- Freedom!
- Has shade trees
- A part of the topography, landscape, road layout
- Inviting (landscaping)
- A linear park
- A wheel with the center being downtown
- And reflects the beauty all around us
- Comfortable, clean, inviting
- A connected system that caters to the needs of the users around (i.e., paths leading to university in student/faculty/staff concentrated communities)
- Separation of bike/ped clearly from traffic
- An enhancement to community value as an amenity
- Wide (about 8 ft.) dedicated bike lanes
- Connecting trails separate from traffic leading to downtown and other shopping areas



A good bike and pedestrian network in the City of Harrisonburg allows:

- Mobility beyond car ownership
- Safe movement across the city to various destinations (shopping, restaurants, library)
- Foot traffic to local businesses
- Safe movement to schools
- Access to children
- Safe riding
- Sharing by bikers and walkers (wide enough)
- Residents to safely reach parks and playgrounds
- People to get to any park by bike on a safe/comfortable route
- Me to bike and walk comfortably to most of the places I go



- Me to visit with and see my neighbors more often
- Travel by bike safely around town with my family
- Me to ride with my children to school or ride to work or to the store without traveling on a road with a speed limit greater than 25 mph
- Children to ride and walk safely to school
- Everyone to connect to neighborhoods, downtown, parks, schools, businesses in a safe and enjoyable way
- Connections between residential neighborhoods with downtown, restaurants, shopping destinations
- Provides a safe and convenient route regardless of the starting point and destination
- Safely connects nodes (clusters of people and important places)
- Me to use my bike to get across town safely
- City and interstate crossing with minimal interaction with cars
- Me to get to home and work safely and smoothly
- Safety riding between any two points in the city
- Moving across/through the city on mode of people's choice
- Making bus connections in concert with bike-ped infrastructure
- Going from mode to mode seamlessly (bus, car, walk, skate, bike)
- Biking without fearing traffic
- Connects people with places they want to go (parks, schools, employment, groceries, churches)

A good bike and pedestrian network in the City of Harrisonburg is:

- Supportive of cyclists commuting to/from work
- Connections between multiple modes of transportation and connects housing to shopping
- Supportive of cyclists shopping
- Prioritized in an effective manner to maximize the benefit of the project and the funding opportunity
- A primary way to increase the quality of civic-life getting people interacting with each other
- Innovative and progressive
- A comprehensive transportation network
- Fun and healthy
- A way to connect neighborhoods and build community
- Safe in order to encourage everyone to use is
- Complete streets with cars, busses, bikes, feet and wheelchairs and strollers
- Safe, enjoyable and convenient
- Safe for all users
- Safe and separated from busy roadways
- Safe and comfortable to use by kids
- Accessible to all neighborhoods and to people of all abilities
- So safe and beautiful people choose to walk and ride a bike rather than drive a car
- Inclusive of all city neighborhoods and provides everyone the opportunity to walk and bike
- Long overdue
- Makes infrastructure happen sooner
- Fully implemented within 10 years
- Developed in a more quick time frame (2-5 years 50% installed)
- Accessible to all citizens who wish to use it
- Accessible from most major neighborhoods in the city
- Accessible to all members of the community (even those who aren't able to advocate for themselves)
- Has bikes easily accessible to those without one
- Safe for all levels of riders, not just the fit and fearless
- Has all ages on bicycles



## The plan itself is:

- Short and concise
- Is simple and easy to understand

## Prioritizing key "visions" of a Bike Ped Plan

After dot voting on the most critical aspects of a plan, the following emerged as vital:

- Timely implementation
- Accessible to all users
- Enables connectivity
- Promotes Safety
- Oriented to kids being able to bike and walk to school safely





#### QUADRANT DISCUSSIONS

During this session, tables were set up with maps and flip charts for each of the four quadrants in the City – northwest, northeast, southwest, and southeast. Participants were asked to break out into different groups and were allowed to move freely between tables. One facilitator was stationed at table, taking notes of the group discussions. Participants were also encouraged to draw their ideas on the maps.

Sample prompts:

- "In order for people in this area of the city to walk and bike more often, safely, and efficiently for leisure and transit, this area needs . . . " (consider both built/engineering needs as well as awareness/education needs)
- "Where, in the vicinity of this area, do bike/pedestrian/transit bus infrastructures come together or could potentially come together? How do we improve facilities and eliminate gaps at these points? (e.g. pedestrian crossings, bus stops, shared sidewalk space, etc...)"
- "How might this area connect with areas being reviewed by other groups? How do we improve connectivity and eliminate gaps at these points between other sections of the City?"

Facilitators asked groups recommend priorities for the needs identified: 1<sup>st</sup>, 2<sup>nd</sup>, or 3<sup>rd</sup> level priority (1<sup>st</sup> priority is the highest priority).

*Italicized items* were drawn by participants on map, but were not captured on flip charts. Category of need recommendations were not made.

#### Northeast Quadrant

Recommended Priority	Need Statement	Bike/Ped
-	, theme of the discussion of needs in this group was access to scho om nearby neighborhoods, particularly for those who walk and bik rather than by choice.	
	A plan that addresses everyone's needs, focusing on those	
1	who may not be bikers/pedestrians by choice.	Both
1	Seeing the connection between these populations and schools, and therefore prioritizing access and safety at these (potential) hubs	Both
2	The provision of continuous paths/lanes that do not force people to jump streets	Both
	Connect Mt. Clinton Pike via Vine St to Smithland Soccer Complex, sidewalks/bike lanes or shared use path?	Both
	Sidewalks on Vine Street from N Main St to E Market St	Ped
	Sidewalks and traffic calming on Blue Ridge Dr; it's a good alternative to Vine St.	Both
	Sidewalks and shared use path on Country Club Rd to connect residents to schools and businesses	Both
	Many gaps along Route 33 between Carlton St to Linda Ln (over interstate)/ High demand area, but lacks bike and ped infrastructure	Both
	Crossing at Reservoir St and Sterling St is unsafe	Both
	Northeast Neighborhood experiences high speeds, drivers not stopping at stop signs	Both
	Main St intersections downtown, drivers turn right without looking	Ped
	Extend Linda Ln shared use path along Smithland Rd from Smithland Soccer Complex to existing sidewalk on Old Furnace Rd near Oriole Ln	Both
	Sidewalks on Old Furnace Rd on either side of Blue Ridge Dr to connect to existing sidewalk	Ped
	Sidewalks on Blue Ridge Dr	Ped
	Sidewalks and crossing(s) on Reservoir St from E Market St to Evelyn Byrd Ave	Ped
	Pedestrian lights on traffic signals downtown	Ped

#### • Safety

- $\circ$   $\:$  Safety was tied to the ideas of accessibility and efficiency throughout different conversations
- Sidewalks and continuous lanes are seen as ways to ensure safety
- Schools offer the ability to provide good points to plan around

- Paths provided should be multiuse, have good lighting, and offer a speedy way to travel.
- Education should be provided for everyone (i.e. bikers *and* pedestrians)
- Current Barriers
  - Lack of connection points (both to other areas, and the need to jump across roads, etc)
  - A lack of continuous paths/lanes
  - A lack of lighting
  - o Narrow sidewalks
  - o Country Club Rd
  - $\circ \quad \text{Vine St}$
- Opportunities
  - o More reliable transit in the NE quadrant
  - $\circ$   $\;$  Utilizing police who are in communities to identify needs/points of connection
  - The ability to connect neighborhoods with JMU and EMU

#### Northwest Quadrant

Recommended Priority	Need Statement	Bike/Ped
	ng theme of the discussion of needs in this group was about connection	ng schools and
	neighborhoods and making biking and walking safe and compelling.	•
More sidewalk	s are a key concern in some of the residential neighborhoods to enabl	
	safely.	
1	Sidewalk and handicapped access from 33 to Thomas Harrison MS	Ped
	Bike/ped improvements on Waterman Dr between Chicago	5.1
1	Avenue and W Market St, bike access to Thomas Harris MS	Both
1	Prioritize Chicago Ave as a key connector	Both
1	Sidewalks west of Waterman ES (Particularly W Gay St west of N Willow St)	Ped
2	Sidewalks on Lee Ave, Stuart St, and residential area to the north	Ped
2	Pedestrian marking from west to Waterman Dr	
2	Bike/ped improvements on Greystone St	Both
2	Traffic calming on streets near EMU for safety	Both
2	N Main St & Gay St intersection – establish crosswalk on final corner (3 of 4 exist)	Ped
2	East-west crosswalk(s) on Virginia Ave north of Third St for Safety (Perhaps at Collicello North development)	Both
2	Bike lanes on N Main St from Washington St to north	Bike
3	Include parking area at future trailhead of Northend Greenway	Both
	Sidewalks and bike lanes or shared use path on Mt. Clinton Pike (connect to Smithland Soccer Complex)	Both
	Connect Woodleigh Ct to Mt. Clinton Pike with official path	Both
	Bike and pedestrian facilities on Mt. Clinton Pike west of Chicago Ave	Both
	Crossings and bike lane or path on Route 42 from Mt. Clinton Pike to north city limits needs	Both
	Northend Greenway between Chicago Ave to Downtown	Both
	Bike Lanes on E/W Gay St to connect east-west	Bike

Observations about linking North West quadrant into the broader city system:

- Talk with various landowners where unofficial paths are in use to make them official paths that offer shorter, more direct routes.
- Mt. Clinton Pike offers connection possibilities to the east quadrant for both bike and ped.
- Virginia Ave becomes an important connection to the north to the county and to the south to downtown and the southeast and southwest quadrants.

## Southeast Quadrant

Recommended Priority	Need Statement	Bike/Ped
-	theme of the discussion of needs in this group was a desire for cor tivity throughout the city, as well as routes connecting neighborho and playgrounds.	•
1	Traffic lights and crossing guards to eliminate buses around Spotswood ES, especially at Reservoir St	Both
1	In-street pedestrian signage on Mason St and Water St	Ped
1	Educate Stone Gate and Sun Chase property managers about encouraging residents to use the flashing lights at the crosswalk on Neff Ave	Ped
2	Establish bike lanes on Port Republic Rd on the bridge crossing I-81.	Bike
2	Eliminate parking on one side of Devon Ln	Bike
2	Establish a long, continuous, accessible trail, potentially by extending the Bluestone Trail into the county, following Black's Run and Cook's Creek and on the west side of I-81 south of Erickson Ave following Route 11.	Both
2	Connect A Dream Come True park to surrounding neighborhoods by a separated trail	Both
2	Connect JMU to Downtown to the Northend Greenway via Federal St or Black's Run	Both
3	More routes connecting residential areas to shopping on E Market St	Both
3	Connect the new Hotel and Conference Center to Downtown via a separated path.	Both
3	Shared use path through Ramblewood Park (Connect Bluestone Trail to Greendale Rd).	Both
3	Designated parking for trailheads along Bluestone Trail and future Northend Greenway	Both
	Unsafe and uncomfortable for bikes and peds across Port Republic Rd between Forest Hill Rd and Bluestone Dr	Both
	Sidewalks and crossing points on Reservoir St between MLK Jr. Way and Evelyn Byrd Ave	Ped
	Crossing points on Reservoir St between Myers Ave and Carlton St for safer access to Spotswood ES	Both
	Sidewalks on MLK Jr Way from Mountain View Dr towards Ott St	Ped
	Make Federal St a bike/ped route	Both
	Extend MLK Jr Way to connect to Country Club Rd for east- west connector	Both
	Bike lanes on MLK Way and Reservoir St (between Neff Ave and E Market St)	Bike
	Encourage connectivity between Devon Ln to Hunters Rd/ Bradley Dr	Both

Connect Bluestone Trail to south city limits following Blacks	Both
Run, and connect with major industrial employers	
Spur Bluestone Trail along west side of I-81 from Ramblewood	Both
Park to Pleasant Valley Rd with connections to roads along S	
Main St	

## Southwest Quadrant

Recommended Priority	Need Statement	Bike/Ped
problem-solvir	ng theme of the discussion of needs in this group was an interest in the from emphasizing how to adapt existing roads designed for car emphasizing opportunities to create path systems separate from a	s into shared
1	Both bicycle and pedestrian accessibility to Harrisonburg HS and to-be-built elementary school near there from neighborhoods via Hillandale Park and other non-road routes. Emphasis is put on having a pathway that is NOT shared with cars.	Both
1	Create separate facility or bike lanes on 33W to Harrisonburg HS. This will fill in a gap that currently exists regarding bike options to and from the school.	Bike
2	Create non-road access to Thomas Harrison MS from Westover Park and connect to W Market St	Both
2	Safe pedestrian crossing options at the intersections of S High St and S Main St & Erickson Ave, especially S High St & Erickson Ave from SE corner to NE corner	Ped
2	Install sidewalk from SE corner of S High St & Erickson Ave to the nearby Food Lion on S High St	Ped
2	Permanent traffic calming solutions on S Dogwood Dr. (Turn stop sign on Ohio Ave to be stopping traffic on S Dogwood Dr? Small roundabouts in intersections?)	Both
2	Better signage in Hillandale Park regarding what paths are ped-only and what paths are shared bike/ped i.e. gravel path from South Ave into park	Both
2	Addressing natural tendency for bike/ped to cross S High St at Emery St en route to Hillandale Park and shops. Either create safe crossing option or better enforce no crossing at that point	Both
2	Create bike lane on Maryland Ave from S Main St to S High St	Bike
2	Address congestion that forms on Maryland Ave when Keister ES lets out from the school day	Both
2	Complete bike lane on S High St to Garbers Crossing Shopping Center	Bike
2	Create a safer crossing across S High St at W Bruce St and W Water St. Like Emery St, these are places where both bikes and peds cross because it is a natural path/short path between two points. W Market St from S High St to S Liberty St is likely not used as it has more cars, on a steep hill, and is narrow.	Both
3	Clockwise bus route going west on Erickson Ave stops for Wal- Mart on Erickson Ave – this bus stop needs a safer crossing for pedestrians	Ped
	More bike/ped support at intersection for left turns at MLK Jr Way and S Main St	Both

Create rails-with-trails next to rail line	Both
Complete SE Connector/ Erickson Ave improvements between S	Both
High St and Garbers Church Rd	
Sidewalks along W Mosby Rd from S Main St to west	Ped
Safe crossings on S Main St at W Kaylor Park, Baxter Dr, and	Both
Pointe Dr for residents to connect to opposite sides and to	
future Bluestone Trail	
Improve sidewalk on W Market St for bike safety between	Bike
Dogwood Dr and Westover Park entrance	
Sidewalks on S Dogwood Dr	Ped

Observations about linking South West quadrant into the broader city system:

- While not city-specific, attention needs to be paid to how the city blurs the lines with the county to enable safer transitions for road cyclists, particularly heading west on Erickson Ave and heading south on 42.
- There is a strong interest in linking this quadrant to the Bluestone Trail safely across 11 so that neighborhoods between 11 and 42 have safe access. The most likely prospect for this seems to be at Kaylor Park Dr and as far from the I-81 interchange as possible.
- Participants wanted to 'see' this quadrant as an area where the nodes are schools, neighborhoods, and parks and the lines linking them are the bike/ped infrastructure. The infrastructure should be dedicated vs. adapted to existing car systems.
- Because schools are a node in the system, new schools should be designed with entry points for potential dedicated bike/ped paths so that they do not have to be retrofitted after the fact. Case in point is the fact that there is poor bike/ped access to Thomas Harrison MS from W Market St. School design includes adequate, covered bike parking near a logical entrance. Because this involves funding decisions, too, it is recommended that a school system representative at the appropriate decision-making level be involved in Bike/Ped Committee work.

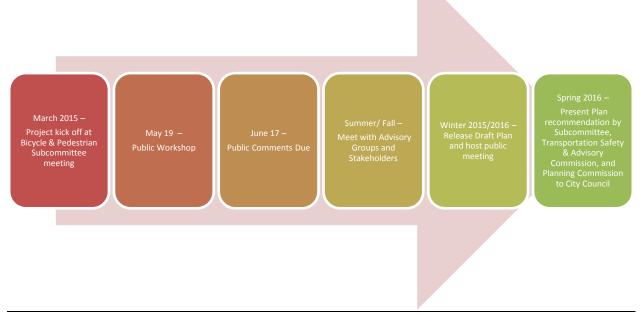
#### **Overall System-Wide Plan Comments**

Offer amenities at bus stops (shelter, safety, etc.) Working with school board to be a part of the conversation about alternative modes of transportation to school Connecting quadrants – may need to rely more on greenways to make these connections Have Greenway Master Plan as a sub-plan of the Bicycle & Pedestrian plan Identify more unofficial paths-in-use Solidify the "last mile" cross-mode connections Focus on maps and wayfinding Strengthen confidence that all users are educated on rights, responsibilities, safety Use amenities/optional fee-for-service in high traffic areas to foster economic sustainability (Bike pumps, repair, vending machines, etc.)

#### WRAP UP

The recommendations collected at this Workshop will be reviewed by city staff and the Bicycle & Pedestrian Subcommittee, and will be used to inform meetings with advisory groups and stakeholders.

Below is the schedule for moving forward.



For updates, visit: http://www.harrisonburgva.gov/bicycle-pedestrian-plan

# **Appendix C:**

Focus Group Summaries



1	Bicycle & Pedestrian Plan Focus Group One: Safe Routes to School, Youth & Families		
2	Tuesday, October 6, 2015, 4:30pm-6pm		
3	Meeting Summary		
4	Focus Group Participants:		
5			
6	Any Aviles, Parent		
7	Becky Johnston, Sentara RMH Safe Routes to School Coordinator		
8	Teresa Hulleman, Parent		
9	Craig Mackail, Harrisonburg City Public Schools		
10	Ben Sandel, Parent		
11	Adam Shank, Harrisonburg City Public Schools – Smithland ES		
12	Stefanie Warlick, Parent		
13			
14	City Department Participants:		
15			
16	Ian Bennett, Harrisonburg Fire Department		
17	Aaron Dove, Harrisonburg Police Department		
18	Adam Fletcher, Planning & Community Development Department		
19	Matt Little, Parks & Recreation Department		
20	Brad Reed, Public Works Department		
21	Tom Hartman, Public Works Department		
22	Jim Baker, Public Works Department		
23	Chris Rush, Harrisonburg Police Department		
24	James Winniger, Harrisonburg Department of Public Transportation		
25	valles ( hinger, frambone alg Deparation of Fache frambportation		
26	Other Participants:		
27			
28	Moderator: Thanh Dang, Public Works Department		
29	Notetaker: Zach Nagourney, Public Works Department		
30	Interpreter: Silvia Beitzel		
50			
31	At this meeting, participants were told that their comments would be anonymous.		
32	1) Thanh welcomed the group, described the purpose, and guidelines for this meeting.		
33 34	2) Introductions		
	<ul> <li>a) Participant 1 – Lives on E. Wolfe Street, children bike &amp; walk to school, son attends out</li> </ul>		
35	of district school at Waterman ES.		
36			
37	b) Participant 2 – Works with Harrisonburg City Public Schools, lives near Thomas		
38	Harrison Middle School and sees kids walking and biking to school every day.		
39	<ul> <li>c) Participant 3 – Lives near Stuart St. Has 3 kids that ride bikes to school</li> <li>d) Participant 4 – Weaks with Senters PMU and answering bifestules to worth ensured</li> </ul>		
40	d) Participant 4 – Works with Sentara RMH and promotes active lifestyles to youth around the community modeling with schedule		
41	the community working with schools.		
42	e) Participant 5 – Has 5 kids, the younger children bike or walk. High school student can't		
43	bike but would like to.		

44		f)	Participant 6 – Works with Smithland ES Spanish speaking families and would like to see
45			more access for those families.
46		g)	Participant 7 – Has 3 kids and lives in Spotswood Mobile Home Park off Country Club
47			Rd, a busy street with dangerous biking and walking conditions.
48			
49	3)	-	uestion #1: What influences your decision to walk, bike, take the bus, or drive?
50		a)	Biking and walking is good to promote a healthy lifestyle.
51		b)	
52			downtown area. Kids could bike to library downtown. But now kids are getting older and
53			they want to go to places farther away (Barnes & Noble, etc.) and now they must drive
54			because they aren't comfortable allowing kids to bike that far away and on roads in that
55			area.
56		c)	Finding the "path of least resistance" and planning ahead is a big influence.
57			i) Example is their family planned a safe route to bike from home the Montessori on
58			Port Republic Rd. from downtown area.
59		d)	Has a large family and having the kids bike to school helps organize the schedule and
60			frees up more of her time, and her decisions to allow her kids to bike is based on safe and
61			accessible routes.
62			i) Kids would be able to bike/ walk to afterschool activities on their own.
63			i) Older kids bike less now because the high school is far away and there isn't an
64			accessible & safe route.
65			iii) Would like to see widening of Erikson Ave between Route 42 to Garbers Church
66			Road to include bike lanes so kids can bike safer to school.
67			(1) Brad and Tom mentioned there is a plan for that project and meetings like this
68			will help bring funding to make that project possible.
69		e)	Parents often walk from trailer park on Country Club to Smithland ES because they can't
70		,	afford transportation (a car) but there aren't sidewalks.
71			i) Thanh – Are there school buses available?
72			(1) For kids, yes. But only to and from school during regular hours. Parents must
73			walk to attend afterschool meetings, pick their kids up, etc.
74		f)	There is no transportation given to afterschool programs therefore families must provide
75		)	their own transportation.
76			i) Some students take transit because they don't have transportation available.
77		g)	Providing easy routes is a difficult task for some schools like Skyline MS & Smithland
78		0)	ES.
79		h)	Will there be infrastructure built into new elementary school's plans?
80		)	(1) It all depends on funding, but there are plans for safe infrastructure on the school
81			property, new shared use path along Garbers Church Road in front of the school.
82			(2) Craig and Tom added that conversations between the Harrisonburg Schools and
83			City are happening to help get funding to build safe infrastructure, which may be
84			a new shared use path to connect Hillandale Park to Garbers Church Road.
85			
86	4)	Οı	uestion 2: What can be done in addition to infrastructure?
87	.,	a)	
88		)	existing infrastructure but there needs to be more enforcement around school areas
89			because enforcement in these areas made the areas feel safer.

90			i) Aaron – On Route 33, school zone was just added for Thomas Harrison Middle
91			School.
92			ii) Brad – Explained how the process of adding a school zone works.
93		b)	Would like to see all behaviors change.
94			i) Example – Madison, WI had an educational program to share rules of the road to all
95			users – bikers, walkers, and drivers.
96		c)	Distracted drivers and those cutting corners make bikers and walkers feel less safe.
97			Feeling unsafe crossing at intersections might be a right of way problem.
98			Drivers not stopping for school bus stop signs.
99		f)	A need for a period of enforcement. A period of warnings by police would be a good
100		,	start.
101		g)	
102		6)	funding was reduced this year. Thinks it is very helpful to have enforcement in those
103			areas.
104			i) Chris – Statistics are staggering with distracted driving, but there aren't enough
105			officers to enforce every school zone. Routes to and from schools are priorities but
106			finding enough time and people is difficult.
107		h)	Smithland ES faculty doesn't feel comfortable telling students to bike or walk to school
108		,	due to safety.
109			i) 15 minute walk from Country Club to Smithland ES.
110			i) To minute work nom country crub to bintentana 15.
111	5)	Oı	section 3: There have been a number of community events that encourage walking and
112	5)	~	king, as well as, educate people on how to walk, bike, and drive safely. What programs
113			ve you enjoyed? What programs do you wish to see more of?
114			Great job at Keister ES and Thomas Harrison MS with the walk and bike to school days.
115		ш)	Those days really help spread the word about biking and walking. Those schools have
116			safe routes.
117		b)	Parks & Rec bike classes really help but are difficult to attend due to scheduling.
118			Bike to ice cream was a great idea.
119			Bike Month – A lot of the same people but when new people start to participate it is
120		•	fantastic and adds to the bike-friendly nature of Harrisonburg.
121		e)	Schools having bikes for students to use is also important.
122		•)	i) Example: middle school gym class went to Hillandale Park and rode the trails, it got
123			students more interested in biking.
124		f)	Neighborhood is disjointed around Sterling St & Route 33, not sure if there is a program
125		-)	to get families to walk to school together.
126			i) Had trouble finding access to parents to get "walking school buses" started. There
127			have only been little pockets of interest shown by parents but they are now looking
128			for school staff volunteers to help. University Place Apartments is only a 5 minute
129			walk to school, but nobody was walking until walking group was organized.
130			(1) 15 kids waiting for bus when they could've already been at school.
131			ii) No good place to cross Route 33 at Sterling & Reservoir.
132			(1) Brad – Is it uncomfortable to cross at Sterling?
133			(a) For bikes, yes. Light doesn't change for bikers.
134			(b) Brad – should contact Public Works when lights not detecting bikers. Brad
135			explained where a bicyclist should line up behind the stop bar in the middle of

136 137 138 139 140 141 142 143 144 145		<ul> <li>the lane to be seen by the camera. Detection cameras are at all lights in the city, except in the downtown core.</li> <li>(c) Also no sidewalk on Sterling St, and ends on the east side on Reservoir St makes for an awkward transition. Will many times walk through cemetery.</li> <li>g) Thanh – What kinds of programs should Parks &amp; Rec look for?</li> <li>i) Matt – We could add more education classes on bike/ped safety and/or pass a pamphlet out to citizens. Information could be added to the Activity Guide.</li> <li>(1) An extension of ideas we've had tonight in order to reach a broader audience.</li> <li>(2) Can inform electronically through Bike Coalition.</li> </ul>
146	6)	Question 4: If you were given a list of new bike/ped projects and programs needed in the
	0)	
147		City, how would you prioritize which projects should be funded first? How would you decide
148		what is the most important? What considerations would you make?
149		a) Areas around Smithland ES and Skyline MS are important – they don't have any
150		infrastructure.
151		b) Prioritize based on high impact, lack of infrastructure.
152		i) Some areas with sidewalks still need improvements to be safer and more comfortable,
153		but areas with no infrastructure higher priority.
154		c) Projects that get kids off the road, is we have the ability to build multi-use paths we
155		should build them. More cost-effective & better for the environment.
156		i) In Cupertino, CA a kid was struck and killed by a truck while riding bike on road and
157		everyone became a little more nervous and scared to ride on the road. It only takes
158		one incident.
159		d) Paths between parks and schools are high priority because it eliminates danger by taking
160		off road routes.
161		i) Example: Cale Trail
162		e) Sharrows help motorists become more aware of bicyclists.
163		f) Brad – Do you feel comfortable letting kids ride on skinnier sidewalks?
164		i) Wider sidewalks are needed on busier roads
165		ii) Skinnier sidewalk if buffer area between road and sidewalk is included.
166		g) Brad – Do you think it's better to ride on the sidewalk or road?
167		i) Safer biking on roads even if there was a sidewalk down all of Central Avenue.
168		Drivers are looking at the road.
169		ii) Brad stated bikers are within drivers' "cone of vision".
170		iii) Safety of riding bike on a road or sidewalk depends on the street, commercial vs.
171		residential, number of entrances, speeds of vehicles, etc.
172		
173	7)	Question 5: Is there anything missed?
174		a) On foggy days, some kids are very hard to see and we need to get students to wear more
175		reflective clothing.
176		b) How do we do that?
177		i) Offer more strobe lights
178		ii) PTA buys armbands to pass out
179		iii) At Thomas Harrison ES, kids were spot checked for lights and then given lights if
180		they didn't have one. Kids won't wear vests.
181		iv) Kids now wear helmets

182		v) Lights are a priority, given to citizens by fire and police departments in the past. From
183		grant funding.
184		c) Keep putting in energy and continue to build upon what we're doing. New kids and
185		families every year.
186		d) Adam – The Bike/Ped Plan is ahead of the Comprehensive Plan, please come and
187		participate in Comprehensive Plan meetings beginning next year. Comprehensive Plan is
188		about street network, zoning, land use, and more.
189		i) Thanh – how comfortable a street feels to walk or bike on is influenced by other
190		elements of the surrounding environment that are addressed in the Comprehensive
191		Plan.
192		
193	8)	Closing Remarks – see attached.

1 2	Bicycle & Pedestrian Plan Focus Group Two: Transportation Disadvantaged, Traditionally – Underrepresented
3	Tuesday, October 13, 2015, 3:30pm-5pm
4	Meeting Summary
5	Focus Group Participants:
6 7 8 9 10	<ul> <li>Beth Bland, Valley Program for Aging Services</li> <li>Sarah Coleman, Church World Service Harrisonburg/ Refugee Resettlement Office</li> <li>Gayl Brunk, Valley Associates for Independent Living</li> <li>John Malone, Community Service Board</li> <li>Daniel Anderson, client of Community Services Board, member of Summit House</li> </ul>
11	City Department Participants:
12 13 14 15 16 17	<ul> <li>Adam Fletcher, Planning &amp; Community Development Department</li> <li>Matt Little, Parks &amp; Recreation Department</li> <li>Brad Reed, Public Works Department</li> <li>Tom Hartman, Public Works Department</li> <li>Jim Baker, Public Works Department</li> <li>Avery Daugherty, Harrisonburg Department of Public Transportation</li> </ul>
18	Other Participants:
19 20 21	<ul> <li>Moderator: Thanh Dang, Public Works Department</li> <li>Notetaker: Zach Nagourney, Public Works Department</li> </ul>
22 23 24	Note: During the meeting the group was informed that statements placed into the meeting summary would be anonymous. However, Thanh Dang contacted participates afterwards and received approval to include identifying information in this summary.
25	1) Thanh welcomed the group, described the purpose, and guidelines for this meeting.
26 27 28 29	2) Thanh said that this focus group has been invited to discuss the needs and wants of people who are transportation-disadvantaged. Who have challenges getting around independently around the city and may need to rely on walking, biking, or transit.
30	Thanh introduced City department representatives.
31 32 33 34 35	<ul> <li>3) Participants introduced themselves.</li> <li>a) Beth Bland, Valley Program for Aging Services, provide services for adults 60 years and older</li> <li>b) Sarah Coleman, Church World Service Harrisonburg/ Refugee Resettlement Program, serves refugees new to the area</li> </ul>

36 37 28		c)	Gayl Brunk, Valley Associates for Independent Living, serves all planning district 6, and work with individuals with disabilities – physical, sensory, cognitive, intellectual, any disability any acc
38		(L	disability, any age.
39 40		d)	John Malone, Community Service Board, works with adults and children with behavioral,
40			health, substance abuse, and developmental disabilities.
41		e)	Daniel Anderson, client of Community Services Board, VAIL, has a disability.
42	4)	тĿ	anh In a trainal weak what convises do you and/or your clients need to get to and how
43	4)		anh – In a typical week, what services do you and/or your clients need to get to and how
44 45			they get there?
45 46		a)	John – most services are at the center, clients coming from county and city to center and traveling around to doctors, social services, family, friends, etc.
46 47		h)	Gayl – Workswith folks with disabilities in the community, going from their homes to
47 48		0)	wherever they need to go. Some need to get out to the County, or live in the County and
40 49			need to get to the City. Sometimes they are going to UVA for medical services but
49 50			mostly around the community.
51		c)	Sarah – Many people going to social services, social security, etc. which are all located
52		0)	downtown. Also going to English classes. Career Development Academy in Memorial
53			Hall, RMH, S. Main, and Harrisonburg Community Health Center. Many work outside of
54			the city and getting there is a challenge.
55			<ul><li>i) Thanh – How are they getting there now?</li></ul>
56			(1) Sarah – Carpool.
57		d)	Beth – Echoes previous comments. Her agency does provide some transportation to and
58			from senior center. People going to supermarket, doctor's appointments, etc. very much
59			like everyone else. Just recently started a limited transportation program within the city
60			for 60+ year olds or with some sort of disability. Price Rotary Center Senior Center at
61			Westover Park.
62		e)	Daniel –
63			i) Uses Harrisonburg transit but has a tough time working around JMU's bus schedule
64			to get to and from work. May have a job that goes to 8-9 at night at Wal-mart, taking
65			a cab is too expensive for someone on a budget with supplementary income. Need to
66			have transportation beyond JMU schedule to go later year around, like when JMU is
67			out of session. Bus fare is 50 cents, and maybe people would be willing to pay more.
68			ii) City traffic is more of an issue he has now. Bought a Moped and uses it to commute
69			even though he's been hit by reckless drivers 3 times and feels unsafe on higher speed
70			roads because people barrel past him. He has spoken with police department.
71			iii) Difficult for some people with disabilities to get from bus stop to Summit House.
72			Could the city transit add a new bus stop beside Summit House entrance?
73			
74	5)		anh – Asked the whole group, is the JMU schedule an issue?
75		a)	Sarah – The buses stopping as early as they do is a problem for our clients who need to
76			get around later in the evening and they can't get home after it's over. And the working
77			around the summer schedule is difficult. Would like to see a more consistent bus
78			schedule.
79			John – Agrees with Sarah
80		c)	Gayl – They can't go to the movies on the weekends.
81			

82 83 84 85 86 87 88 89 90 91 92 93 94 95	6)	<ul> <li>Thanh - Are there any areas in the city where your services aren't accessible from a bus stop?</li> <li>a) John – The bus stop across from CSB, no pedestrian crossing. CSB on west side, bus stop on east side. Pedestrians could go down to stop light and cross but they choose not to. There isn't a bus shelter but had asked a couple of years ago for one, a lot of clients wait there for a while.</li> <li>i) Adam – Have there been any specific complaints about there being no sidewalks on N. Main?</li> <li>(1) John – Nobody has come to me but I'm sure people complain because it is a pedestrian thruway. Frightening is when people use mobility devices on Main St. We get a lot of traffic from CSB to apartments down Main Street. They typically just walk in the street. Does the city need a certain number of names/ comments to make improvements?</li> <li>(2) Adam – not necessarily.</li> </ul>
96	7)	Thanh – Do you have suggestions to improve our outreach?
90 97	1)	a) Sarah – For out folks, it's tough to read the bus schedule. Teaches people to ride the bus
98		because she teaches English classes and wants to help her students get there. She shows
99		them to look at the map to see where the stops are, then shows them to find the bus
100		number and look at the schedule. She uses google maps to figures out the routes, but not
101		everyone has access to the internet. It is difficult to read the paper map especially for
102		people who are still learning English.
103		<ul><li>b) Beth – People have trouble understanding and comprehending the schedule, getting to</li></ul>
104		and from the bus, needing assistance with carrying packages and groceries, and
105		organizing their day to match the bus schedule because it drops them off, then they have
106		to wait a long time for it to come back.
107		i) Sarah – Heard this complaint too. Leaving for English class 2 hours before the class
108		then waiting 45 minutes after class to take the bus home. Takes up half their day
109		waiting for the bus.
110		c) Gayl – Would like to see Harrisonburg Transit come out with their own app for smart
111		phones. Particularly as a service provider it would help her share information.
112		i) Thanh – How many folks have smart phones?
113		(1) Gayl - Everyone has smart phones. There are programs you can get them for free.
114		(2) Sarah – agreed with Gayl that everyone has smart phones.
115		(3) Daniel – QR code reader isn't great and doesn't work properly.
116		(4) Sarah – NextBus doesn't really do much good because figuring out the route they
117		need is more important than when the next bus is arriving.
118		(5) Beth – Very few of her clients have smart phones.
119		
120	8)	Thanh - What influences decisions to walk or bike for those who are able to do so?
121		a) Gayl –
122		i) Path of Travel.
123		ii) Commends Public Works for making the city more accessible. Been at VAIL for 16
124		years and has seen a lot of improvement with wider sidewalks and ramps, especially
125		with the downtown streetscape.

<ul> <li>iii) Knows a man in a wheelchair who got cited as a motorized vehicle because he got hit in the street. Case got dropped because the state code was clearly meant to for mopeds. He was traveling on a street without sidewalks.</li> <li>iv) She worked to get sidewalks into the City's Design &amp; Construction Standards Manual. She fought to get sidewalks in the area but there are still some places that need improvements.</li> <li>v) There are even in places without accessible parking.</li> <li>Sarah - Cients do tend to walk unless they have children or bigger families. Children can't keep up as well. Biking depends on culture, how biking is perceived in their native culture. Sometimes they bike a lot, sometimes biking was for kids.</li> <li>Beth - Majority of people she works with can't walk or bike.</li> <li>John - Many clients can afford vehicles and upkeep so many people do walk.</li> <li>Sarah - For some its affordability. Many of clients don't know English and can't get their licenses so they are forced to walk, bike, take the bus, or beg for a ride.</li> <li>Daniel -</li> <li>i) Got a job coach to help get a job and difficult to find employment that fit the bus schedule. Got a job that threw in \$500 to buy a Moped to get to work. Hard to find the extra time to take the bus. Tough to find a cab from the east side of town to the north side of town.</li> <li>ii) Has noticed down at Vine, southbound to N. Main, there is not a lot of room to get down there and thinks three should be a crosswalk there to get across afely. Not enough sidewalk downtown. Roads need to be redone by police department down to Blue Ridge Florist because the road is bumpy.</li> <li>iii) Left on Wolfe Street, road is messed up there. Reservoir Street, going toward E. Market there isn't enough lighting especially past the cemetry. How serious does something have to be to get a speed bump?</li> <li>(1) Thanh - Talk to Brad after the meeting about Traffic Calming.</li> <li>g) Sarah -Some of her staff mentioned crosswalks to shopping area</li></ul>			
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171	(4) Gayl – We used to do that; bringing in area transportation providers come to
172	share. We might be primed for a new opportunity with more conversations
173	happening. Agrees with Beth's idea of bringing groups together and to see where
174	there was overlap and opportunities.
175	(5) Daniel – Saw cement trucks racing on Erickson Avenue while he was on his
176	scooter and felt unsafe. Will the sidewalks on Erickson be finished?
177	(a) Tom – the next phase will be finishing sidewalks through Garbers Church
178	Road.
179	Roud.
180	10) Thanh - Are they any other ideas for encouragement programs or education?
181	a) John - Gather or distribute information at sites where there are many pedestrians and give
182	them contact information. A lot of people walk to his agency.
183	b) Gayl – Has there been any thought for the individual that doesn't have Medicaid, has
184	lower income, with no car, and needs to get to UVA?
185	i) Brad – There has been talks within Planning District Commission for transportation
186	between JMU and UVA. Doesn't know much more.
187	ii) Avery – Went to a focus group meeting where there were talks of transporting to and
188	from UVA, trying to come up with idea of participants, but it is something that hasn't
189	really been developed yet.
190	iii) Daniel – Expressed a complaint about a cab company.
191	(1) Gayl – There is a complaint process for Logistic Care and she'll get that
192	information to Daniel.
193	
194	11) Thanh – The City receives a lot of input on where projects are needed. If you were given a
195	list of projects, how would you prioritize projects?
196	a) Sarah – Prioritize bus schedule, expand the bus schedules, or add more buses. We would
197	like more sidewalks, but my clients use the bus a lot.
198	b) Daniel – Is there any law against talking on the phone while biking? Anything can be
199	done to those who violate the law?
200	i) Brad – Cyclists are subject to the same laws as vehicle operators when riding in the
200	street. Police will enforce those laws. You should contact the Police Department to let
201	them know.
202	ii) Daniel – Has a problem with police when he was in a Moped accident on Carlton
203	
	Street with a driver pulling out of the shopping center. Daniel received a citation for not having a registration. The police did not issue the driver a citation because there
205	
206	was less than \$1,500 in damage done. Says it is not always damage to vehicle that
207	matters. If a human being is hurt and an ambulance is called why would the driver not
208	get a citation for reckless driving?
209	iii) Thanh – Those are important points. We don't have a representative from Police
210	Department here and we can help you get in touch with the Police to get answer to
211	those questions.
212	c) Thanh - Do you have suggestions for how the City should prioritize projects? Sarah had
213	suggested bus schedule expansion.
214	(1) Daniel – The bus schedule is most important. He rides his scooter, but hard in
215	wintertime.

216	d)	John – Would prioritize the bus schedule, then sidewalks, then bike lanes because of
217	``	weather issues. If it's really bad weather or really hot, the buses are the best way.
218	e)	Gayl –
219		i) She agrees about bus schedule.
220		ii) Looking at infrastructure, everything should be accessible. Particularly, because we
221		get federal funding. Ex. CDBG funding.
222		iii) We need to look at bus stations and bus stops making sure they are accessible.
223		Getting people off paratransit and onto main bus routes.
224		iv) Then sidewalks and curb cuts to be fully accessible, that creates path of travel
225	0	throughout the community that is more seamless.
226	f)	Thanh – To make everything accessible, how would you prioritize existing infrastructure
227		vs. need for new infrastructure or is it location based on proximity to places?
228		i) Gayl-if somebody is building a housing complex they should build everything to be
229		accessible, unless they get an exemption. Then we should make sure that everything
230		we already have is accessible. Make sure existing sidewalks have curb cuts, and then
231	,	plan for future growth and create new accessibility.
232	g)	Daniel – Since City buses were bought by JMU, how much influence does JMU have on
233		Harrisonburg Transit since they bought it?
234		i) Avery – A common misunderstanding. 80% of buses purchased through federal
235	1 \	funding, 10% from state, 10% combination of city and JMU.
236	h)	Daniel – Is there any way to get Logistic Care to pay for bus tickets to help people get
237		around the city, instead of paying for cab rides?
238	•`	i) Avery – I can speak with you after the meeting.
239	i)	Beth – Older population has very unique needs, while so much has been focus on the
240		student community and they are important, we need to look at how we can better meet
241		the needs of older adults with limited options. Many can't drive, have physical disabilities because they still have to get places. What negtroephing
242 243		disabilities, cognitive disabilities, because they still have to get places. What partnerships might we might form to meet those needs?
245 244		i) Brad – What are some examples you have in mind to help the elderly?
244 245		(1) Beth – Finances to pay for cabs or paratransit and we don't have enough
243 246		assistance to help carry groceries, put on coats, etc. Having to wait for a vehicle to
240		drop them off and circle back around can be difficult for them.
247		(2) Brad – Are there specific pedestrian improvements?
249		(a) Beth – Not many elderly walking very far, they need some type of vehicular
250		transportation.
251		(b) Daniel – some people who qualify for paratransit don't take advantage of it
252		because they do find that a \$4 round trip is more expensive than a \$1 round
253		trip ticket.
254	j)	Elise – Sounds like affordability might be a good way to prioritize.
255	k)	Sarah – Her clients receive Medicaid for 8 months so they get the discount for price. She
256	)	thinks it's very affordable for public transportation. Harrisonburg is the cheapest bus
257		system she's seen Thinks that the people paying 50 cents might pay a little more if it
258		meant they didn't have to wait so long. But that's an opinion of her population.
259	1)	Daniel – Summit House has been generous enough, if people stay long enough they do
260	-)	provide them with a bus ticket home. There are some people who don't take advantage of
261		the system, they use it properly and they hang on by a thread. It depends on what you

262	receive every month. Affordability is a big problem for most friends he goes to Summit
263	House with.
264	m) Beth – Her agency doesn't charge, instead they ask for a donation. Could provide more
265	services if they had more volunteers.
266	i) Daniel – Maybe there could be a program that receives donated vehicles to City
267	transit, or other organization. If people don't need a hydraulic lift and they were able
268	to get into a car, have a separate service that volunteers could drive people to places.
269	Similar to Logistic Care, but similar to paratransit in scheduling pick up.
270	(1) Thanh – What are opportunities or challenges to Daniel's suggestion?
271	(a) Gayl – Can't get the volunteers to drive. Also have issues. For example, Uber
272	drivers are not held to the same accountability and regulations as taxi drivers.
273	There's a battle between those two communities. Anyone want to guess what
274	locality in the Commonwealth of Virginia has the most Uber registered
275	drivers? Answers, Harrisonburg. Many JMU students. May not be highly
276	utilized yet.
277	(b) Gayl- The bus is very affordable. It's getting to the bus, the bus schedule, and
278	the logistics.
279	(c) John – This bus is fine. But any alternative to the bus, not walking, taking a
280	cab, that is challenge. Cabs are expensive.
281	n) Thanh – Summarizing what was been said:
282	i) Prioritize bus schedule expansion,
283	ii) Accessibility of sidewalks leading up to bus stops,
284	iii) Repairing existing sidewalks to make more accessible, safety at pedestrian crossings.
285	Separately, make sure the city's design standards and construction process ensures
286	that new facilities are accessible.
287	o) John - Specifically no sidewalk on North Main.
288	p) Sarah – When would you need suggestions for sidewalks? She could talk to clients.
289	i) Thanh – Provides overview of Bicycle & Pedestrian Plan process. Input was received
290	in May 2015, and through a previous collection effort with Rockingham Co. Open to
291	receiving information whenever but would like comments November 15th at the latest
292	for the first draft of the Plan.
293	q) Daniel – How much does JMU have say in how city transit runs? Where does JMU get
294	their money to build new convocation center, a plaza, etc.?
295	i) Gayl – Its 2 separate pots of money; one for capital funding and one for other.
296	
297	12) Gayl – Since Harrisonburg is an MPO, which includes some of the County, what point
298	should we expect to see the transportation, biking, and pedestrian plan be all inclusive of the
299	whole MPO area.
300	a) John – What is MPO?
301	b) Gayl – Metropolitan Planning Organization.
302	c) Avery – From City transit's perspective, it would be when the county contributes to
303	transportation.
304	d) Thanh – The Metropolitan Planning Organization member jurisdictions are Harrisonburg.
305	Rockingham County, Bridgewater, Dayton, and Mt. Crawford. The group is made up of
306	elected officials and city staff to facilitate transportation planning – transit, bike, ped,
307	freight, etc.

e) Brad - MPO is currently working Bike/Ped Plan to encompass entire area. Rockingham 308 County and JMU are working on plans. We are always talking to each other to coordinate 309 efforts and connect facilities, but many different challenges come into play across 310 jurisdictions. 311 f) Gayl - Fascinating that we've been an MPO for a while but most of its concentrated 312 within the city limits. 313 314 13) Daniel – Is CAT's bus connected to city transit? 315 a) Avery – A company called Virginia Regional Transit contracted with Blue Ridge 316 Community College. They run services from Blue Ridge to/ from JMU. 317 b) Daniel – only 50 cents to get from JMU to Staunton. 318 c) Gayl – But you can't get back in the same day. 319 320 14) Thanh – Before we wrap up, is there anything that we've missed? 321 1) Elise – Is there anyone not here who you think would be important to hear feedback from? 322 a) Sarah – Would have been interested to have a few of her clients represent their 323 communities here. We had 60 people arrive in September so we have been very busy 324 and were unable to invite community leaders to this meeting. They would know what 325 their community members are using and needs. 326 b) Daniel – Pleasant View(?) would have some good feedback. 327 2) Avery – We schedule a "Ride the Bus" program to help people get acquainted with the 328 bus system. And could coordinate this with your organizations on a bi-annual basis. 329 330 3) Thanh – Thank you for coming out today. 331 332

1 2	Bicycle & Pedestrian Plan Focus Group Three: Higher Education & Retirement Communities
3	Friday, October 16, 2015, 1:30pm-3pm
4	Meeting Summary
5	Focus Group Participants:
6 7 8 9	<ul> <li>Lee Eshelman, James Madison University</li> <li>Angela Crow, James Madison University</li> <li>Eldon Kurtz, Eastern Mennonite University</li> <li>Heather Yoder, Virginia Mennonite Retirement Community</li> </ul>
10	City Department Participants:
11 12 13	<ul> <li>Adam Fletcher, Planning &amp; Community Development Department</li> <li>Brad Reed, Public Works Department</li> <li>Avery Daugherty, Harrisonburg Department of Public Transportation</li> </ul>
14	Other Participants:
15 16 17 18	<ul> <li>Moderator, Thanh Dang, Public Works Department</li> <li>Notetaker, Danielle Morris, Public Works Department</li> <li>Eric Saner, Bicycle and Pedestrian Subcommittee</li> </ul>
19 20 21 22	<ol> <li>Thanh welcomed the group, described the purpose, and guidelines for this meeting.</li> <li>Thanh introduced City department representatives.</li> </ol>
23 24 25 26 27 28 29 30 31 32	<ol> <li>Participants introduced themselves.         <ul> <li>a) Heather Yoder – VMRC Wellness Center. Residents and community members can use the wellness center.</li> <li>b) Lee Eshelman – JMU Transportation Demand Management. Responsible for supporting transit, bicycle &amp; pedestrian planning and implementation, transportation safety and signage on campus.</li> <li>c) Angela Crow – JMU writing and rhetoric department, does research on bicycling, and serves on JMU Bicycle &amp; Pedestrian Advisory Committee.</li> <li>d) Eldon Kurtz – EMU, Director of Facilities – works with traffic and infrastructure</li> </ul> </li> </ol>
<ol> <li>33</li> <li>34</li> <li>35</li> <li>36</li> <li>37</li> <li>38</li> <li>39</li> <li>40</li> </ol>	<ul> <li>3) Thanh – In a typical week, what places do you, students, faculty, staff, residents need to go to and how do they get there?</li> <li>a) Lee – <ul> <li>i) JMU has a contract with Public Transit to use their buses to get students from off-campus to on-campus, and runs shuttles across campus all day into the early evening. Public Transit serves approximately 2-2.5 million riders per year. JMU also uses them for games and graduation events. All buses have bike racks. Has done surveys,</li> <li>ii) Lots of walking and biking on campus. Has collected data on key corridors.</li> </ul> </li> </ul>

41		iii) Bluestone Trail – lots of students bike from the apartments to campus via the trail.
42		JMU plans to build the trail thru campus soon and wants to connect with Northend
43		Greenway.
44		iv) Lee is wondering what are safe routes from apartment complexes; especially those
45		that are further out from campus. Ex. Copper Beech, South View, etc.
46		v) JMU has surplus bike racks they don't know what to do with them.
	b)	Eldon –
48	•)	i) Residents surrounding EMU and EMU students go to the Harmony Square shopping
49		center by biking, walking, driving, and bus.
49 50		
		ii) Red Front – there is a need for pedestrian enhancements to get residents and students
51		there safely. Also a route towards downtown, and La Morena.
52		iii) The shopping center along Mt. Clinton Pike (Gift & Thrift/ Traditions) – students and
53		residents go there via all modes of transportation.
54		iv) There are people who work/ attend EMU who are residents living in/around
55		downtown and would like a route to bike and walk between EMU and downtown
56		without competing with the chicken trucks.
57		v) Eldon is noticing more bus riders, observed people at bus stops. But there is a big
58		delay between the buses that service the area – so people drive instead of waiting an
59		hour to hour and a half. Need more frequency of buses.
60	c)	Heather –
61		i) VMRC is next to EMU, so share similar needs with transportation.
62		ii) Residents who can't drive rely on each other for transportation or buses, but have to
63		wait on the buses due to the delay between buses on the routes. Some residents need
64		the para-transit buses, which is helpful for those have limited mobility.
65		iii) Some residents walk (or use motorized chairs) to Harmony Square. Relatively safe to
66		get there, but it isn't always safe at the roadway crossings or drive entrance crossings.
67		
		iv) Residents also go to Rite-Aid on Rt. 42.
68		v) They are seeing younger residents at VMRC who bike. They bike on Rt. 42 North,
69		but the bike lanes "cut-off" as you enter the City from the County.
70		vi) Staff sometimes use the bus system, but most staff live in Elkton, VA or in Bergton,
71		WV.
	d)	Angela –
73		i) Has been trying to figure out how to do education for JMU students, but has been
74		difficult. Trying to partner with UREC.
75		ii) Her freshmen students are gathering information on other universities' education
76		programs/ videos and will share with Lee.
77		iii) The women in her classes say they would not walk/bike alone, but would in a group.
78		Most do not feel safe walking alone especially at night. Most live in apartments, etc.
79		that are in "less visible" areas. Some even don't feel safe walking through Arboretum
80		at night.
81		iv) She suggested a college-level "safe routes to school" program (with different name)
82		to help women group together to walk home.
83		v) She said that JMU makes campus a safe place to walk.
	e)	Lee –
85	-,	i) Is working on a campus survey on transportation that asks about perceptions about
86		safety.
00		Salory.

87	4)	Th	anh – Have you experienced, observed, or received feedback about difficult places and
88		rou	ites to access places in Harrisonburg?
89		a)	Lee – is working on a survey out asking students where the most dangerous locations or
90			conditions on campus are.
91		b)	Heather – difficult to get to Rite-Aid, Gift & Thrift (on Mt. Clinton Pike) and Harmony
92			Square (even though it's on the same side of the road, getting across roadway crossings &
93			drive entrances is difficult)
94		c)	Eldon & Heather - Parkwood Dr has no sidewalks so you have to walk in the roadway
95		ĺ	and the high school is on that road.
96		d)	Eldon - will there be mid-point crossings in new roundabout on Mt. Clinton Pike?
97		,	
98	5)	Th	anh – What could be done to encourage people to walk, bike, or take transit more?
99	,		Lee – build infrastructure to make it more attractive and safe and then do more education.
100			And then enforce. You shouldn't start writing tickets to bicyclists who don't have
101			anywhere safe to ride or haven't been educated.
102		b)	Thanh asks, what features makes a route for walking or biking more attractive and safe?
103			Lee - Shared use path concept is good. It does not physically separate bicyclists and
104		-)	pedestrians from each other, but separates them from drivers.
105		d)	Angela – Shared use paths need signage to explain shared space.
106			Lee –
107		,	i) In ideal world we would be able to separate and give bicyclists, pedestrians, and
108			drivers each their own space.
109			ii) The Bluestone Trail is gorgeous from Purcell Park to JMU, along Newman Lake. Its
110			attractive.
111		f)	Heather –
112		,	i) Well maintained,
113			ii) No trip hazards,
114			iii) Benches placed along the way for when people need to take a break when they get
115			tired.
116		g)	Eldon -
117		6)	i) Appropriate lighting
118			ii) Trees and vegetation can enhance a space, but beware of creating "lurking" spots
119			around vegetation. Balance those things.
120		h)	Angela –
121		,	i) Student population not comfortable on roads, the paths are a starting point to help get
122			them acclimated.
123			ii) For women, having groups of women able to ride with other women helps them learn
124			how to ride on the road more safely. Such as Harrisonburg Women on Wheels group
125			and group in Staunton. Having a group women encourages women to try biking,
126			gives them a sense that the streets are not as horrific as they thought. Research shows
127			that women are less likely to take risks on bicycles. Research shows that women will
128			take risks if they are not riding alone and there is someone there to help them learn. If
129			the can be a program supported by the City or others, it would be good.
130		i)	Lee –
131		/	i) Other part of the equation is to educate drivers.

122		::) I at a f driver and in a hours and day 't hours have to drive anound historilists and
132		ii) Lots of drivers are in a hurry and don't know how to drive around bicyclists and
133		pedestrians.
134		iii) JMU trying to change the signage on campus to make it more apparent that the
135		bicyclist does not need to accommodate the vehicle, the vehicle needs to
136		accommodate the bicyclist.
137		iv) Also have skateboarders to educate.
138	j)	Thanh asks what programming have you seen other communities do to educate?
139		i) Heather - VMRC offers drivers safety courses with AARP.
140		ii) Lee - Educate drivers about the right-of-way for bikes and the three foot rule. He
141		doesn't think that is common knowledge.
142		iii) Eldon – it's been a long time since he's taken drivers education and how to drive
143		around bicyclists and pedestrians wasn't included then.
144		iv) Avery –
145		(1) Transit drivers are trained and model how to drive around bicyclists and
146		pedestrians
147		(2) Thinks there needs to be some consequence after education efforts are made or
148		bad behaviors will continue.
149		v) Eldon –
150		(1) Cultural awareness needs to develop. Now drivers are stopping on Park Rd at
151		crosswalks, but it didn't use to be that way.
152		(2) More traffic calming.
153		vi) Angela - Signage can be confusing –
154		(1) "BIKE LANE ENDS" doesn't mean the bicyclists have to get off the roadway,
155		but some people think that.
156		(2) Maybe another sign indicating the bike has use of the full lane – "Bikes May Use
157		Full Lane".
158		(3) Consistency of signage across the city recommended.
159		(4) Recognizes there are limited ways to teach bicyclists and drivers; can't require all
160		to take drivers exams again.
161		vii) Thanh Changing laws and expectations
162		viii) Eldon – greater prominence of bicycles as a viable form of transportation.
162		ix) Angela – Other community, Mobile(?), created videos to show people how to pass.
163 164		<ul> <li>x) Lee – maybe pamphlets on windshields.</li> </ul>
164 165		x) Adam – advertising on transit buses.
166 167		xii)Angela – (1) Stanford has a commuting huddy system
167		<ul> <li>(1) Stanford has a commuting buddy system.</li> <li>(2) Suggests grapting stiply stories to encourage</li> </ul>
168		<ul> <li>(2) Suggests creating sticky stories to encourage</li> <li>(2) Connect needle to the Comfort Bike Man</li> </ul>
169		(3) Connect people to the Comfort Bike Map
170	1-)	xiii) Brad explained the Comfort Bike Map.
171	k)	
172		i) Education for bicyclists, pedestrians, and motorists
173		ii) Improved infrastructure such as crossings
174		iii) Shared use path design to be safe and attractive
175		iv) Improve Public Transit
176		

177	6)	Th	anh – If you were given a list of new bike/ped projects and programs needed in the City,
178		ho	w would you prioritize which projects should be funded? How would you decide what is
179		the	e most important? What considerations would you make?
180		a)	Heather – Safety. Defined as looking at accident rates
181		b)	Lee – Identify major thru-fares for bicyclists and pedestrians and then make them more
182			attractive and safe so then they would use those more, and stay off of busy streets and out
183			of parking lots. North-south shared use path is great, what about east-west corridors?
184		c)	Eldon – Noted a written piece by Bob Berson - Why not have something [a trail] head out
185			to Dayton or Bridgewater?
186		d)	Eldon – for prioritization observe bike and ped heavy use areas
187			i) Where's the heavy use? If we build it, will it get used?
188		e)	Thanh asks – what are indicators of where heavy use is and where it could be?
189			i) Lee & Eldon – where we don't have sidewalks we see cow paths
190			ii) Lee – JMU Bicycle & Pedestrian Master Plan had a smart phone app to trace where
191			the bike/ped person moves to/from (voluntary), could be used in city to track people
192			(JMU MOVES app) – could also see where they are going for future projects.
193		f)	Thanh asks – how do we determine where people want to go?
194			i) Lee – create routes such as Grace St corridor improvements by looking at maps and
195			seeing where people are going
196		g)	Angela – Gender issues. Men and women have different comfort levels and often choose
197			routes differently.
198		h)	Avery asks - does JMU or EMU have a registration requirement for bicycles?
199			i) Eldon & Lee – JMU & EMU do not require registration for bicycles currently
200			ii) Lee – Kicking around idea that if you do register you'd get a free bike helmet and a
201			pamphlet with education information. But there's really no incentive to register your
202			bike. We don't have a big theft issue in Harrisonburg so why would you register your
203			bike?
204			iii) Eldon - It is recommended, especially if bike were to be stolen and left somewhere.
205			iv) Avery – sometimes people forget and leave their bikes on the transit bus. About one
206			bike per week.
207		•	
208		i)	Thanh – These are all great ideas. When we summarize this report, I hope it will spur
209			other good ideas and partnerships.
210			i) Lee – The beauty of this discussion is if we could standardize some of these
211			approaches – enforcement, signage, wayfinding, registration, etc – try to make it
212			uniform to reduce confusion. It would be good to keep this going with ideas.
213			ii) Eldon – This would help reinforce the culture we are trying to develop.
214		3	Thank What island a new horse for an annuaring this type of a survey still these
215		j)	Thanh - What ideas do you have for encouraging this type of conversation with these
216			players? Are there any other players missing? What kind of forum? How frequent would they most? What would incentiving people to participate?
217			they meet? What would incentivize people to participate?
218			i) Angela – likes the JMU BPAC. There is overlap with the City Bike-Ped subcommittee.
219			Subcommute.
220			

221		ii) Thanh – There's the Harrisonburg & Rockingham Bike-Walk Summit coming up, is
222		that the forum?
223		iii) Eldon – Events like "Bikes, Burgers, and Beers"?
224		iv) Lee – if someone like Angela brought an idea to him, he can reach out to city staff to
225		discuss?
226		v) Angela - if groups get together they can see what each are doing and not waste time
227		by doing the same thing and spinning their wheels.
228		vi) Lee said JMU BPAC has organized subcommittees around 5Es – education,
229		encouragement, engineering, enforcement, and evaluation.
230		vii) Angela – there are now also 5C's for women.
231		
232	k)	Thanh summarized the discussion on prioritizing projects, not in any order:
233		i) Safety – looking at accident history; identifying opportunities where short term fixes
234		are;
235		ii) Look at where heavy use exists and where there is potential for heavy use – using
236		apps and talking to people about where they want to go;
237		iii) Identify major corridors for pathways for bicyclists and pedestrians to go north-south
238		and to go east-west;
239		iv) Need a forum to help coordinate messaging and infrastructure improvements across
240		organizations and throughout the community.
241		
242	1)	Eldon – While encouraging people to bike, providing places to park bikes is important;
243		Also consider appropriate storage for the length of time people need
244	m)	Lee – JMU campus is evaluating their bike racks – number and locations, including
245		sheltered bike racks and appropriate style of bike racks; sometimes bike racks are
246		overflowing
247	n)	Adam – suggested huge posters in department stores (Walmart, Target), on city buses,
248		where I pay my bills with a "DID YOU KNOW" kind of message. Would need to be a
249		consistent design. Maybe put on side of transit buses. Not a small handbill. WOW factor,
250		in your face.
251		i) The group expressed support of this.
252		ii) Discussion of importance of consistent messaging, consistent visual cues, branding so
253	``	people will remember. Example: Doodie-Free Harrisonburg campaign from 2008.
254		Eldon – evening news could reach out to older residents.
255	p)	
256		i) Eldon said a number of years ago there was a bike share program with yellow painted
257		bikes, but then they were taken and wrecked.
258		ii) JMU said that UREC has a bike share program.
259		iii) There was discussion about a more professional bike share program, rental with credit
260		card that would also be tied with off-campus housing.
261 262	q)	
262 263		to indicate where they live in the city? If so, that information could be used to show initial surges of where students are coming from and when.
265		<ul> <li>i) Eldon – Information exists in a protected directory. EMU could not give addresses</li> </ul>
264 265		out unless it was voluntary.
205		out unless it was voluntary.

266			ii) Brad – Points could be provided on a map like it was for SRTS projects he's worked
267			on. Info from school provides areas the students are from represented as dots on a
268			map – no detailed address or other specifics are provided.
269			iii) Lee – are there places where bikes should not go/be?
270			
271	7)	Th	anh asked if Eric had any questions or thoughts for the group. Eric -
272		a)	Noticed a lot of interest in education and getting information out there. There was a
273			suggestion to do this by requiring people to register their bikes and giving out materials
274			then. He recommended alsogiving out materials to educate drivers when they register
275			their cars for parking on campus and suggested handouts with rules of the road for
276			drivers.
277		b)	Noted discussion about enforcement and suggested not forgetting also to do positive
278			enforcement. A short PSA could be to stop people who are doing things the right way.
279			Maybe the evening news would cover or you could get a gift card.
280		c)	Cautions against required bike registration. Especially if it leads to ticketed enforcement.
281			It could hurt low income people and a barrier to everyone biking.
282		d)	Liked comment made about need for good parking facilities. Noted SVBC has program
283			that encourages community bulk bike rack purchase.
284			
285	8)	Th	anh – did we miss anything?
286		a)	Angela – Marking streets – May make sense to identify with markings on the street
287			which streets are safer to ride on. Some people don't know what markings are supposed
288			to mean. Just came back from a trip in the Netherlands where markings were clear.
289		b)	Lee – there may be some places where we shouldn't have bikes. There's no shoulder or
290			room to share, and speeds are very high. How do we make that work safely?
291		c)	Angela – consider if there is another safer route vs. improvements to be made where there
292			is not an alternative.
293		d)	Heather - Bus System/Schedule - There are residents who have lost their licenses or their
294			family don't think it's safe for them to drive anymore. They need to pick up groceries and
295			the bus schedule can be overwhelming to those who have never done it. Is there a
296			program to help teach them to use the buses?
297			i) Avery – already partners with Bob Horst at VMRC to assist elderly on how to
298			navigate the system – twice a year. Additional times can be scheduled. Transit brings
299			a bus and para-transit to show them how to get on, etc.
300		e)	Adam & Heather – is it possible for the bus drivers to help/assist the person getting on
301			the bus: putting bike on rack, etc.?
302			i) Avery – liability issues for potential damage to bicycles. Drivers can only help from
303			the edge of the ramp up to the bus per ADA regulations.
304			ii) Heather – VMRC may need to think about enhancing their own transportation
305			program versus using public transit.
306			
307	9)		anh – summarized next steps for the Bicycle & Pedestrian Plan.
308		a)	Thank you for coming out today.

1	Bicycle & Pedestrian Plan Focus Group Four: Business & Economic Vitality
2	Tuesday, October 20, 2015, 1:30pm-3pm
3	Meeting Summary
4	Focus Group Participants:
5	Kevin McDermott – Central Shenandoah Planning District Commission
6	<ul> <li>Joan Hollen – Shenandoah Valley Partnership</li> </ul>
7	• Frank Tamberino – Harrisonburg-Rockingham Chamber of Commerce
8	Thomas Jenkins – Shenandoah Bicycle Company
9	Daniel Martin – Valley Mall Management
10	City Department Participants:
11	Brian Shull, Department of Economic Development
12	Tom Hartman, Public Works Department
13	Jim Baker, Public Works Department
14	Other Participants:
15	Moderator, Thanh Dang, Public Works Department
16	<ul> <li>Notetaker, Zach Nagourney, Public Works Department</li> </ul>
17	Carl Droms, Bicycle & Pedestrian Subcommittee
18	
19 20	1) Thanh welcomed the group, described the purpose, and guidelines for this meeting.
21	2) Thanh introduced City department representatives.
22	
23	Participants introduced themselves.
24 25	3) Thanh – What kind of places do you, your customers, or employees go in a typical week and
26	how do they get there (walk, bike, bus, drive)? What influences their decision?
27	a) Frank –
28	i) Staff drive their cars and go to various meetings in personal vehicles. People coming
29	to meet at his office also drive. Sometimes they might carpool, but are auto-
30 31	<ul><li>dependent.</li><li>ii) Depending on the size of the meeting they will try to meet at a more centralized</li></ul>
32	location, like downtown.
33	iii) Also needs to keep in mind some people may be coming from outside the area.
34	Always makes sure there are plenty of parking spaces.
35	iv) Some people can combine multiple meetings in downtown, but he may have to drive
36	to Massanutten, then to Broadway and back to Harrisonburg.
37	b) Joan –
38	i) Works at the Icehouse downtown.

39 40 41		ii) People who work downtown who come to her building will walk. But people who work in office, to go to meetings they have to drive because they cover a broad area. They live outside of Harrisonburg have to drive to work.
42		iii) She loves to work downtown because she likes to walk around downtown. Can walk
43	``	to local restaurants or just around the block.
44 45	c)	<ul><li>Thomas –</li><li>Majority of staff rides bikes to work due lifestyle and to convenience. Having safe</li></ul>
45 46		i) Majority of staff rides bikes to work due lifestyle and to convenience. Having safe bike, covered bike parking solves where do I park my bike? Errands that the staff runs
40		are close enough to ride bike, e.g. bike is close to shop.
48		ii) Majority of customers drive to the store. Do have some that bike. Seen more of an
49		increase in pedestrian traffic as we have seen more people working downtown.
50		Walking to the shop during lunch. And this is more skewed then most other
51		businesses. A good majority of JMU students are riding bikes to the shop. The shop is
52		easy to get to by bike and makes it easier for customers to get to.
53	d)	Daniel –
54		i) 90% of both staff and customers are driving. Most of his staff live outside of
55		Harrisonburg in Bridgewater, Augusta, Grottoes, etc.
56		ii) Other 10% are JMU students taking public transportation.
57 58		iii) When the City added sidewalks, he thought we would have seen more biking and
58 59	ച	walking, but haven't. Kevin - Are there any bike racks?
60	0)	i) Daniel – 3 bike racks
61	f)	Thomas asks Daniel – Have the sidewalks spurred more walking in that area? People
62	-)	working or shopping coming from outside the sidewalk area?
63		i) Daniel – Yes.
64	g)	Frank – People in hotels, within a couple of blocks from there, has seen people walk all
65		the time.
66		i) Thomas – Yes, when I stay out of town at a hotel. I get to walk for a few minute
67		because I've been stuck in a car or a conference all day.
68	h)	Daniel – A lot of it is mindset. If I want to go to Chick-Fil-A for lunch, why don't I walk?
69		The sidewalks are there. If the City is going to make the investment for infrastructure and
70		public safety, we need to educate people to use the sidewalks. Maybe with more traffic
71 72		and population growth it would force people to walk? Like in big cities. It hasn't
72 73	i)	happened here yet to force people to walk. Joan – The time to get somewhere influences the decision to drive.
73		Kevin – When you get outside of the immediate downtown and JMU the density changes.
75	J)	The route from the mall to Chic-Fil-A isn't that far, but it seems far away.
76	k)	Daniel – When he worked in DC he would walk further than that. You don't think about
77	)	it.
78	1)	Frank – It's all perception.
79	m)	Kevin – When you live in those places, there's a greater attraction to walking. He's not
80		familiar with East Market St, but imagines that you're walking along long stretches of
81		parking lots. There isn't much scenery to look at while walking, and the Chick-Fil-A that
82		looks so far away. You don't think about that in a more dense place.
83	n)	Kevin - The people he serves, through the HRMPO, are taking work trips, school trips,
84		and shopping trips. $85 - 90\%$ of those trips are taken by car. The college students are

biking and are who use transit the most. Once outside of JMU area, the public doesn't use 85 86 transit as much. 87 88 4) Thanh – What're the most important transportation factors that influence a business location? a) Frank – It depends on the type of business. For chains and commercial businesses that are 89 dependent upon traffic coming through the door (retail, service) most look at Average 90 Daily Traffic count – how many cars are passing by. Can you turn in and turn out? For 91 92 companies that are not dependent on that traffic, like IT companies, can locate anywhere. Not sure how many are not downtown. Most are in downtown because that is what they 93 want and they want to intermingle with others and have synergy between them. 94 However, if they are looking to relocate and are used to being a suburban location, they 95 may just choose another suburban location with a large footprint. 96 b) Joan – Sometimes companies who want to locate here will ask if there is public 97 transportation available for employees to get around. SRI was in favor of bike paths for 98 their employees. Some companies use biking as a huge asset for quality of living. 99 c) Frank – Some people see biking as either a recreational activity or a form of 100 transportation. 101 d) Thomas – From a retail perspective, he looks at traffic around the business and ease of 102 getting in and out. Non-retail depends on other things. Sometimes companies see a 103 location and having the option of a facility nearby for employees to bike for 104 transportation to work is an appealing feature for employers. So that recreational cyclists 105 may find they can do it for transportation. DEQ office on the southside of Harrisonburg is 106 a hard place to get by bike. They have lots of employees who are environmentally 107 conscious who would bike but are limited. Public transit would be appealing for big 108 stores like Wal-mart, Target to attract employees and shoppers. 109 e) Thanh (directed to Joan) – What kind of response do you give to people calling? 110 i) Joan – Promotes Bike the Valley website, City's recognition for biking. Hasn't 111 promoted bike to work because she doesn't have material to promote what she 112 doesn't know. 113 ii) Thanh – What about transit? 114 iii) Joan - Only Harrisonburg, Staunton, Waynesboro have transit. 115 116 f) Kevin – The Governor and others, when talking about VTrans vision process. Another 117 way for cities to attract businesses and have a great economy to focus more on making 118 your place a place where people want to stay and live. And then they'll come and build 119 their business from the ground. He thinks Harrisonburg has a great start on that with JMU 120 here. If you can make it attractive for people to live and they will want to stay. The 121 Millennial generation wants a town that is bikeable, walkable and transit friendly. It 122 makes it more attractive. 123 g) Thomas – D.C. is trying to figure out a way to retain the Millennials. The cost of living 124 keeps going up. 125 h) Daniel – Tyson's Corner is trying to make it easier to work, play, live and stay in that 126 127 area. i) Frank – Reston, VA, building a small city and shutting everyone out. 128 i) Kevin – Out in Denver, many malls that were not doing well have been redeveloped into 129 community centers and residential areas have been put in alongside retail. 130

131		k) Frank – In Denver, a business's rented bikes for a beer tour.
132		
133	5)	Thanh – Do you think improved infrastructure would attract businesses and/or local tourism?
134		a) Kevin – 100% yes!
135		b) Joan – agrees.
136		c) Kevin - People want to vacation at places that are easy to get around.
137		d) Thomas – Agree. Bicycle tourism has increased and will continue increase. But people
138		want to be able to bike not just for recreational purposes, but they want that whole day
139		experience to be able to walk to restaurants, to hotel, etc. or use public transportation. I
140		think that is still missing here.
141		C
142	6)	Thanh – Are there any examples of transportation infrastructure improvements that you have
143		seen that promotes this type of environment?
144		a) Joan – Adding sidewalks and crosswalks by the mall has been helpful for people walk out
145		there. Has improved safety. And allowed people to walk to restaurants, etc.
146		b) Kevin – Downtown streetscape improvements, ascetics, has really helped add to the pride
147		of Harrisonburg. If they are visiting, they may think they want live in a place like
148		Harrisonburg, how fun it looks, that is easy to walk around.
149		c) Kevin - There are a lot of mountain biking and hiking opportunities outside of the city,
150		like Shenandoah National Park. That is really attractive and those resources that
151		successful cities play off of.
152		
153	7)	Joan – Are the any statistics of people who come from outside of Harrisonburg, who come
154		here for recreational biking? She lives outside of Bridgewater and sees tons of people on
155		bikes. The evening bicyclists may be local. On the weekends, there may be hundreds of
156		people biking by and wonders if people are parking somewhere and then riding.
157		a) Carl – a lot of people from Harrisonburg, Massanutten, and other places do park in
158		Bridgewater and then bike.
159		b) Kevin – Currently working on an Economic impact Study. A survey was released around
160		April 2015 using survey monkey, as promoted for visiting and local bicyclists to go on to
161		answer some questions about what their spending habits regarding bicycling and how
162		often they visit and where they ride. Survey will close in mid-November 2015. Results
163		will be run through an economic impact model to see what economic impact of local
164		bicyclist is. About 1,200 people have filled of the survey to date.
165		
166	8)	Thanh – Have you observed or received feedback of difficult places and routes to access for
167		biking, walking, or transit?
168		a) Frank – Anywhere along 33 where there isn't a sidewalk.
169		b) Daniel – North Main Street from the county building to the north. There's always people
170		walking on the road and in the grass.
171		c) Thomas –
172		i) Anywhere on Country Club Road.
173		ii) Getting from east-west sides of town to the other.
174		iii) Along Route 33 crossing 81.
175		iv) On MLK Jr. Way from Route 33 to 42 is difficult.
176		v) And hard to get to the very south end of town, DEQ offices.
-		

177 178 179 180 181 182 183 184 185 186 187		d) e) f)	<ul> <li>Kevin – <ol> <li>Big break from inside the city to outside. Hard to get around outside the core of the City and going out into the County.</li> <li>33 on the east and west side.</li> <li>11 on both the north and south side are difficult.</li> <li>Also heard difficult to get from Belmont to the City.</li> </ol> </li> <li>Daniel – What about Reservoir St improvements?</li> <li>Tom – It will have bike lanes and sidewalks.</li> <li>Frank – Not having sidewalks on a road isn't a bad thing if traffic is moving slowly, people are more courteous. But for roads with higher traffic and higher speeds, you're taking your life into your own hands.</li> </ul>
188 189	9)	тհ	anh – What can be done to encourage people to bike and walk more? Infrastructure,
189	)		couragement, education.
191		a)	Thomas – Education is a big thing. Getting people in the mindset that walking and biking
192		u)	doesn't take that long door to door. Employers should encourage biking/walking from a
193			health perspective. Parking can be a big expense, such as in places like downtown. To
194			educate from different angles from the city and employers – example: you work here,
195			these are all the places that are a 5 minute walk. Some people are driving a few blocks to
196			get to lunch and it takes longer than walking.
197		b)	Thanh – Have you seen any employer programs that should be tried around here?
198			i) Frank – In Florida, employers encouraged employees to walk and bike so they
199			wouldn't have to pay for all the parking spots. The best incentives is a disincentive,
200			make it inconvenient for people to use a vehicle. But that can be counterproductive if
201			people say they just won't go there any more, it could hurt a business.
202			ii) Daniel – There is probably a distance, that helps people decide whether to bike or
203			walk. A lot of the mall employs people from outside Harrisonburg. Education is key
204 205			once you're at the location – you park at the mall or you live downtown, then you park your car for the day and walk, bike, or use transit to get around within the City.
205			iii) Thomas – Thinks that staff at JMU could commute to campus via car. Then when
200			they get here, they could park at a satellite parking lot for staff, they could retrieve
208			their bike out of a covered/ secure locker, and then bike to and around campus all day
209			and for errands. I think people get into the mindset that it's one or the other, but I
210			think it can be both.
211			
212		c)	Thanh – Have you thought more about a carpool lot, Park & Ride in the area?
213		,	i) Kevin – Thinks it's been a missed opportunity not to have a Park & Ride in
214			Harrisonburg. Thinks it's needed. Putting one outside of downtown, then provide
215			transit service or walk into downtown or to JMU campus. It works both ways. People
216			in Harrisonburg and Rockingham might park there and carpool to Staunton, Augusta,
217			and Waynesboro for work. Kevin lives out near Charlottesville and see this type of
218			Park & Ride around the UVA campus, where people park outside of campus and
219			takes a bus in for free.
220			ii) Thomas – Thinks RMH had some incentives when they were located in their old
221			location.
222			(1) Brian – Many RMH employees would park in municipal lots the ride or walk in.

223 224		iii) Kevin – Does EMU have any issues with parking? Would they be attracted to Park & Rides?
225		(1) Frank – Doesn't think EMU has any issues. Bridgewater is starting to develop
226 227		some issues with parking availability. (2) Brian – EMU has started adding more bike sheds with new dorms.
228	4.02 551	
229 230		anh – If you were given a list of new bike/ped projects and programs needed in the City, w would you prioritize which projects should be funded first? What factors are most
231		portant?
232		Joan – Safety, places where people have been hit.
233	b)	Daniel – Areas where there's congestion for vehicles, buses, etc. Should alleviate
234		tensions in those areas.
235		Frank – Highest priorities would be congested areas.
236	d)	Kevin – Whatever projects get you the most bang for your buck, areas that could help the
237		most people. Look at population density and job density.
238	e)	Frank – Sidewalks, too. Sidewalks may not take a lot of people off the road, but anything
239		you can do helps.
240	f)	Thomas – There needs to be a balance between long term vision and planning, and fixing
241		congestion issues now. If you're always dealing with what is the problem now, you will
242		always being playing catch-up. You have to have the vision for what is down the
243		pipeline, projects being planned for 20 years out. Consider a goal to increase public
244		transportation or increase trips by walking and biking. Average citizen might not
245		understand the balance, but there need to be one.
246	g)	Daniel – Transportation issues are difficult to fix because there is never enough money to
247	6)	fund the projects. In DC, when Springfield exchange was done, it took so long to do that
248		the improvements became obsolete when the project was completed. Wants to fix things
249		now but has to also plan for the future. The hot points identified now could move in 5
250		years due to changes, or other improvements.
251	h)	Kevin – looking at future land use goals, not just transportation.
252	i)	Thomas – Regarding the University, looking at how much congestion is due to students
253	-)	commuting to school. As a citizen, he chooses parts of town he'd travel to or avoid based
254		on time of year or time of day, based on university schedule. Maybe look at
255		transportation dollars differently. The university is such a major part of the transportation
256		issue.
257	j)	Daniel – Assumes there is a bad point elsewhere in the City that was fixed when the
258	J)	Southeast Connector opened because people changed their routine. If you were to try to
259		fix that one small bad point, you may have wasted a lot of money.
260	k)	Frank – part of it is mindset and tolerance level. You could keep widening Reservoir
261	K)	Street until you have no stops along it, or do you just live with it. He now plans his
262		commutes based on time of days or choose an alternative route.
262	1)	Thomas – Does the City track peak hours?
	1)	
264 265		i) Tom – Yes we do. We build sequencing into the traffic signals based on peak hours
265		and peak direction of travel.
266	m)	Thanh – To summarize, the group would prioritize projects by
267		i) Looking at long term planning versus short term fixes, to carefully evaluate
268		opportunities

269		ii) Safety, such as accident information
270		iii) Areas with congestion
271		iv) What is the cost benefit, look at population densities and where people are moving
272	```	v) Sidewalk safety (not really a priority factor)
273	n)	Frank – sometimes you have to build where you want people to go.
274		
275		anh – Have we missed anything?
276	a)	Frank – How much PR, publicity goes on from a public transportation standpoint? If
277		you're a student you're probably getting that information. But other people coming to
278		town or dependent on public transportation or who might be willing to take transit with
279		awareness.
280		i) Thanh – Will relay that question to transit. In other focus group meetings, Avery from
281		transit offered bus riding education programs to community organizations.
282		ii) Kevin – We have a Ride Share Program, grant funded by Department of Rail &
283		Public Transportation. The program promotes any types of non single occupancy
284		vehicle choices in transportation. Trying to incorporate more transit PR.
285		iii) Thanh – Are there ideas to promote public transit that we can relay to Kevin's office
286		or to Transit?
287		(1) Frank – More awareness. Most people aren't in the automatic mindset to catch the
288		bus.
289		(2) Kevin – Envisions the Ride Share Program helping people become more aware of
290		transit. Sending employer human resources departments bus schedules and the
291		bike comfort map that Harrisonburg made. Great resource that could be provided.
292	b)	Thomas – Is there any incentive programs – for employers or schools to reduce the
293		number of car trips going to that location? Parents dropping off one kid at the school or
294		business employees all driving to work. Are there municipalities out there who reduce the
295		demand on our infrastructure by working with employers through incentives? Maybe
296		that's money better spent then on infrastructure.
297		i) Thanh – Doesn't know of any.
298		ii) Tom – The city has the Safe Routes to School program that encourages parents to
299		walk their kids to school. If a new business comes into the city the developer is
300		required to build sidewalks, connector roads for interconnectivity, etc. We don't have
301		the level of your idea.
302	c)	Thomas – Suggests the city consider a cost share program to provide infrastructure to
303		connect housing developments. Looking at big college housing units that are not
304		integrated. Understands that they are private businesses and private developments, but
305		there are opportunities there to connect them. There could be path connection The
306		Overlook to the back of The Overlook to Hunters Ridge. What financial incentive can the
307		city offer to the neighbors to reduce demand on our infrastructure?
308		i) Jim – Would love to take a \$2 million project, instead of building \$2 million worth of
309		roadway, but to break it out into multiple smaller funds, and take it to private
310		developers to build interconnectivity and paths. But part of the education process
311		goes beyond educating our own people. We need to educate the people who provide
312		the funding to the City. The strings that come attached to the dollars the City received
313		require that it only be spent for roads for motor vehicles. Federal highway funds can't
314		easily be used for building paths. As we update the Bike/Ped Plan to show these

- projects, we can add a narrative about bicycle and pedestrian plan to change the 315 mindset. 316 ii) Kevin – There may be opportunity to incentivize building those internal connections 317 318 by allowing them to reduce other required road improvements. Or to reduce the number of parking spaces they are required to build in exchange for building 319 interconnectivity with neighbors. Incentivize transit and alternative forms of 320 321 transportation. 322 12) Thanh – summarized next steps for the Bicycle & Pedestrian Plan. 323
- a) Thank you for coming out today.

1 2	Bicycle & Pedestrian Plan Focus Group Five: Real Estate Development & Property Management
3	Wednesday, October 21, 2015, 1:30pm-3pm
4	Meeting Summary
5	Focus Group Participants:
6	• Kim Young, Pheasant Run Apartments and Willow Hills Subdivision
7	<ul> <li>Jennifer McCloskey – The Hills Harrisonburg</li> </ul>
8	Mary Masserley, Matchbox Realty
9	Luke Smith, Funkhouser Realty
10	City Department Participants:
11	Adam Fletcher, Planning & Community Development Department
12	Brad Reed, Public Works Department
13	Tom Hartman, Public Works
14	• Jim Baker, Public Works
15	James Wininger, Harrisonburg Department of Public Transportation
16	Alleyn Harned, Bicycle and Pedestrian Subcommittee
17	Other Participants:
18	Moderator: Thanh Dang, Public Works Department
19	Notetaker: Danielle Morris, Public Works Department
20	
21	1) Thanh welcomed the group, described the purpose, and guidelines for this meeting.
22	
23	Thanh introduced City department representatives.
24	
25	2) Participants introduced themselves.
26 27	<ul> <li>a) Kim Young, Pheasant Run Townhomes. Student community, also get young professionals and graduates.</li> </ul>
27 28	b) Jennifer McCloskey, The Hills. South View, North View, and Stone Gate. Jennifer new
29	to the area.
30	c) Luke Smith, Funkhouser Real Estate Group. Works with homeowners and potential
31	investors. Went to JMU and has lived here as a young professional.
32	d) Mary Masserley, Matchbox Realty. Main clients are students in downtown Harrisonburg.
33	
34	3) Thanh – In a typical week, what places do you, students, staff, residents need to go to and
35	how do they get there? What influences the decision to bike, walk, take the bus, or drive?
36	a) Kim –
37	i) Kim lives in Rockingham County. When she comes to Harrisonburg it's to and from
38	work, conducting business, doctor's appointments, and groceries. She does have
39	employees have moved into the City to be closer to downtown and events. Residents
40	bike, walk or take the bus, going to JMU, to downtown areas. For new homes that she

41 42 43 44 45		has built in Willow Hills, new homeowners purchase in the City to be closer to JMU where they work. They like being closer to restaurants, Farmers Market, and downtown. The Bluestone Trail offers more benefits and a lot of Pheasant Run residents walk or bike to JMU along the trail. Before the Bluestone Trail opened she had noticed more residents biking on South Main St bike lanes and walking along
46		Main St to JMU when JMU closed campus to vehicles. Now with the trail, if you're
47		not an expert and don't feel comfortable biking on South Main St you can use the trail
48		as an alternative. Lots of residents run for exercise along the Bluestone Trail, and
49 50		walk to campus. Since JMU is becoming more bike/walk friendly, the students are
50 51	<b>b</b> )	starting to become so. Luke –
51	/	i) Lives a couple blocks from downtown. Spends a lot of time downtown at restaurants
53	Ţ	and events. Goes to Westover Park. If going downtown or to Westover Park he walks
54		or bikes, and thinks others in his neighborhood do the same.
55	i	ii) If he goes to his office, he drives. He works near University Boulevard & Reservoir
56		Street and would like to see more sidewalks and bike lanes in the area.
57	i	iii) He would like to try shopping at Costco on his bike with a trailer in the future, if he
58		felt better about biking on Reservoir St or East Market St.
59	1	iv) Sometimes he grabs lunches around his office and might drive. He knows that new
60		construction requires sidewalks to be constructed, and believes it would be a
61		challenge to retrofit new sidewalks in that area, but seems like that area could use
62 63		them. He sees visitors staying at nearby hotels and they are walking to restaurants and are walking in the street, which doesn't look good and can't be comfortable. Thinks
63 64		this area could be more walkable. What's happening with Reservoir Street?
65		(1) Tom – Reservoir Street Project will provide more sidewalk and bike lanes on
66		Reservoir between south city limits to Neff Avenue, and only sidewalks between
67		Neff Avenue to University Blvd. Also, pending grant funding there's a new Safe
68		Routes to School project planned for Spotswood Elementary that proposes
69		sidewalks along Reservoir St. in that area.
70		Jennifer – Is new to the area and drives mostly between three properties. She has tried to
71		walk, but it's a lot of time. Residents take the bus because it's easier than taking your car
72		to JMU campus. Some residents are runners, but some don't feel safe running in the area
73		due to site development taking place. A lot of residents are choosing to go to the fitness
74 75		center to run/ walk because they don't want to be on the main road. They would prefer to be outside.
75 76		Mary – Most of her residents are going to campus. Has parking garages under Urban
77		Exchange and there are as man bicycles as there are cars. They have had to install more
78		bike racks in the garage and outside for visitors. Residents also go Farmer's Market and
79		downtown. It's free to park a bike in the garage, but costs money to park a car.
80		
81	· · · · · · · · · · · · · · · · · · ·	nh – Some people purchase a bike and then it gets left parked for a long time. What do
82	•	think influences people's decision to ride their bike?
83		Mary – The weather is the biggest influence.
84 05		Luke – The weather and where you are going. If you're going to campus or around
85	(	downtown or to one of the parks on the west side, it is easy, faster, and fun to get around

86 87		on your bike. But if you have to go to East Market St or Reservoir St, you'd probably hop in your car because it's a further distance and it's safer.
88	c)	There was nodding in agreement from the other participants.
	d)	Jennifer – A lot of her residents don't choose to drive to campus because of the parking
89 00	u)	1 I E
90		situation on campus. It takes them longer to drive and park and walk to class. To take the
91	``	bus and get dropped off where they need to go is a lot easier.
92	e)	Luke – And the expense of the parking permit.
93		
94	f)	Luke – He was on the Bluestone Trail recently and asked Kim if Pheasant Run has a bike
95		kiosk.
96		i) Kim – Yes.
97		
98		ii) Kim-
99		(1) Agrees that weather and where they are going influences whether they bike or not.
100		Resident scan enroll in the bike share program for \$30 per year for unlimited 12
101		hour use. There are 6 bikes available for use. Helmets are available for free. Has
102		about 30% increase of use on that program since last year.
103		(2) Has seen more and more resident's bike more often.
104		(3) Residents from Park Apartments next door are also using the Bluestone Trail.
105		They are walking through Pheasant Run to get to the trail, and she sees one
106		gentleman walk by around the same time every day.
107		iii) Brad – is the bike share program open to anybody?
108		(1) Kim – Yes. Open to all – sign up online.
109		iv) Luke – Has been seeing more bike shares in other cities he has visited, and stations
110		are available everywhere. Thinks that Harrisonbug would be a good candidate for that
111		for a bike share program. Would be nice if City had a Bike Share program with
112		stations around the city. It could be good for citizens and visitors. Might also be good
112		for people who don't want to make a commitment to buy a bike.
113		v) Kim – That actually was what started her bike share program. Each year, there were
115		10-15 bikes per year that got left behind. She thought initially of doing a program on her own to offer free eccess to hiles. But ther serve a hile share measure when she
116		her own to offer free access to bikes. But then saw a bike share program when she
117		traveled somewhere, and thought this partnership in a more structured environment
118		would keep the bikes better maintained, avoid problems with being stolen or lost, or
119		liability issues. So she entered into a partnership with Zagster. Zagster could expand
120		bikes and kiosks to other locations on campus and downtown.
121		vi) Luke – if you are visiting town it would add to the experience.
122		vii)Kim –
123		(1) There are people, like her, who wouldn't necessarily bike for the physical activity,
124		but would for the enjoyment. Some people want to bike to experience the area
125		without driving.
126		(2) Bike share gives them an opportunity without the financial investment.
127		(3) Pheasant Run has also partnered with Bluestone Bike & Run for events to show
128		residents opportunities in the area.
129		
130		anh – What are important transportation factors that influence where future residents
131	ch	oose to move within the City?

132		a)	Luke –
133		u)	i) If you have family, how busy the roads are.
134			i) If you are JMU student or a parent, then bus routes are important.
134			iii) Doesn't hear about bus routes from many other people.
			iv) Biking is important to people who are bikers.
136		1)	
137		b)	Mary –
138			i) Bus routes are huge. She has spoken with Harrisonburg Public Transportation about
139			bus routes and it doesn't seem that setting up bus routes in certain areas is not as
140			critical to them. But to a parent or to a property manager, where you put that bus
141			route is critical. Where you put the bus route, and if it's not a direct route to campus it
142			could make or break a property.
143			ii) Urban Exchange does not have a direct bus route to campus. It is a roundabout route
144			to Cloverleaf Shopping Center, etc. To get to JMU, you have to either walk, bike, or
145			have a car. So for parents who don't send their kids here with cars anymore, that is
146			make or break during lease signing and where they choose to live. Feels there is
147			insensitivity when talking about bus schedule. It would be nice if the Urban Exchange
148			had a direct route to JMU to serve the 192 apartments that are primarily students,
149			even if only a couple times a day.
150		c)	Jennifer – Arboretum Trail is nice so students are not on the main road walking from
151			Stone Gate Apartments. Parents like that because their son or daughter can walk or bike
152			away from the main road.
153		d)	Luke – Even if you're outside of downtown, being able to walk around safe at all hours
154		í	of the day without being worried about being mowed over a by a vehicle.
155			
155 156	6)	Tł	anh – What factors make a place more "walkable"?
	6)		nanh – What factors make a place more "walkable"? Luke –
156	6)		•
156 157	6)		Luke – i) Sidewalks help a lot.
156 157 158	6)		Luke – i) Sidewalks help a lot. ii) Crosswalks at busy roads.
156 157 158 159	6)		Luke – i) Sidewalks help a lot. ii) Crosswalks at busy roads. iii) Slow traffic patterns.
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178		i)	Bluestone Trail is a nice asset. It's great to see different factions of the community
179			using it. Not just students. It's pulling all the aspects of our unique community
180			together for everyone to enjoy. It's a fantastic addition.
181		ii)	Likes all the pocket parks in different residential areas, makes it more accessible to
182			walk or bike to those facilities.
183		iii	) Appears that there are a lot of people using bike lanes and sidewalks along Stone
184			Spring Road. Notices more people out and about.
185		iv	) Improvements in downtown area that is more aesthetically pleasing gives more
186		,	character to the downtown area.
187	h	) Lu	
188	0	/	Ice House Expansion and landscaping is nice.
189		ii)	e
190			) There are a lot of doggy bag stations and it's great for dog owners.
191		1V_	) As downtown is starting to expand to the north and Liberty Street is starting to get
192			more used.
193		v)	And more use along Wolfe Street with the food trucks and new brewery, hopefully
194			will get more people walking along that corridor.
195		vi	) JMU making it more difficult to drive across campus with the gates makes it nicer to
196			bike across.
197	с	) Ki	m –
198		í)	If you're not a JMU student and you don't have access to get around campus, it is
199		,	difficult to get onto campus. She volunteers for an organization, and can't park
200			anywhere. Attending the housing fair can be unbearable to cart all of her things. It
200			restricts the interactiveness, but is probably better for JMU.
201		;;)	Thinks people like being in small town, where people are approachable, all of these
		11)	
203			additions to parks, paths, beatification projects, makes people want to spend more
204		•••	time in the city and invest in the area.
205		111	) Thinks all the projects have enhanced the city.
206			
207			Have you experienced, observed, or received feedback about difficult places and
208	r	outes	to access places in Harrisonburg?
209	a	) Lu	ike –
210		i)	Holy bushes along Bruce St parking deck on Liberty Street.
211		ii)	University Blvd & Reservoir Street needs more sidewalks. He would walk to
212			restaurants during his lunch breaks if he didn't have to walk on the road or through
213			parking lots. A lot of people in his office drive to lunch too.
214		iii	) Trying to cross Route 42 from the downtown area to go to Westover Park is not very
215		,	safe. The two crosswalks are Market St and MLK, which is far away. Suggested
216			considering a tunnel under Route 42 for pedestrians and bike riders.
210	h	) Ki	im – concerned about trails in Purcell Park. Doesn't recommend that people walk
	U	· · · · · · · · · · · · · · · · · · ·	
218			rough there even as it's getting dark. Says some of the area is questionable. At one
219		-	int in time, there were homeless people closer to the Interstate.
220	c		ary – Reservoir Street between $1pm - 5pm$ , there is a lot of traffic coming off Evelyn
221		• `	yrd Ave and they stay in the right lane which causes a lot of backup.
222		i)	
223			other student housing to the south.

224		ii) Brad – should be taken care of with the Reservoir Street Project.
225		
226	,	anh – What could be done to encourage people to walk, bike, or take transit more?
227		frastructure & Education, Enforcement, Encouragement?
228	a)	Kim –
229		i) Half of her residents don't even know there is a park just beyond Pheasant Run. If
230		residents at other properties are the same, many students don't know beyond what
231		they can't see.
232		ii) With Bike Share Program, Pheasant Run lets the students ride the bikes, get on the
233		trail and explore Purcell Park.
234		iii) Suggests education and visibility about the city parks, trails and amenities in the city
235		with brochures
236		iv) She markets the Bluestone Trail heavily for getting to Purcell Park and to JMU.
237		v) Doesn't think most college students know what's around them. A lot of students don't
238		know about Westover Park.
239	b)	Luke – Lots of students have no idea about the parks and what they offer – Westover
240		Park offers fisbee golf, fooseball, weight room, etc.
241	c)	Kim – There is overall lack of knowledge about the amenities in this area.
242	d)	Thanh – Summarized the discussion that if residents, including students, knew about
243		amenities near them, they might walk and bike more.
244		
245	10) Th	anh - In addition to a community map, what other ideas do you have to share this
246	int	formation with neighbors, customers, etc?
247	a)	Mary – Create phone app to show nearby attractions. Students don't use paper maps, but
248		have their phones with them 24/7.
249	b)	Kim – App of things to do in the area. The app might feature different things to do in the
250		area to expose students to different things to do.
251	c)	Mary - If Bike Share Program set up around Harrisonburg, each station could have
252		electronic informational kiosks to tell people what destinations are near the kiosks
253	d)	Luke - Encouraged YELP reviews for parks and community centers – Is used a lot in
254		other places, but not used as much in this area.
255	e)	Brad – Do students/ customers not use google maps or similar tools to search for what's
256		nearby?
257		i) Kim – they are not focused on looking unless something specific is suggested to
258		them.
259		ii) Mary – you have to market the park like you would market an apartment and show
260		what you have to offer.
261	f)	Kim – subscribes to the City Bike/Walk Monthly Newsletter and it has given her
262		information that she relays to her residents by facebook, etc. It's a great resource that
263		would be of interest to other people.
264	g)	Jennifer – It would be nice to give residents a paper Move-In brochure about the
265		amenities to give to new people moving in would be nice.
266	h)	Thanh asked if an organization in the City could create that and distribute a brochure to
267		the apartment complexes, would they distribute it?
268		i) Jennifer – Yes, she would distribute it because it helps her residents.

269	ii) Kim – Thinks that JMU would want to help promote this information as an alternative
270	to drinking
271	i) Thanh – this information will be relayed to Parks & Recreation Department
272	
273	11) Thanh – What programs have benefited you/your clients? What programs do you wish to see
274	more of, or are there new ones that you would like to see?
275	a) Kim – Has partnered with Bluestone Bike & Run who has come and given bike and trail
276	safety, etiquette, and maintenance talks at Pheasant Run for residents.
277	b) Luke – Thinks those workshops are happening frequently in our area at other bike shops
278	too. Pointing people to the local bike shops for information to be aware of events.
279	c) Mary – Works also at Harrisonburg Fire Department and gives out informational
280	brochures about brain injury awareness, bicycle and pedestrian safety, helmets, etc. that
281	she could get for apartment complexes to give out. Contact her.
282	
283	12) Thanh – If you were given a list of new bike/ped projects and programs needed in the City,
284	how would you prioritize which projects should be funded? How would you decide what is
285	the most important? What considerations would you make?
286	a) Kim –
287	i) She would look concentration of housing and retail areas, using population numbers
288	ii) Would put new sidewalks where there are people.
289	b) Luke – connect areas where the most people spend the most time
290	c) Kim – Agrees with Mary on buses. Pheasant Run gets infrequent service on weekends
291	and over the summer it's on demand. Many residents are choosing not to have cars. More
292	people walking and biking, and affordability is a bigger issue. Not having buses run
293	regularly is a big negative for residents.
294 205	d) Adam – what are the vacancy rates over the summer?
295 296	<ul> <li>Kim – if they have jobs they are staying. Many are taking classes over the summer.</li> <li>She sees a drop only in July and August, but consistent numbers the rest of the year.</li> </ul>
290 297	i) Mary – doesn't have a ton of drop. Over the summer, students may go home for a few
297	days and come back because their apartment is home. Not having a direct bus route to
298	campus is a tough sell.
300	e) Kim – thinks the gate system on campus is forcing more and more people not to have
301	cars. Pushing people to walk, bike, and take transit more. Is the City finding increases in
302	bus ridership? Or is it the same?
303	i) James – not really tied to gate system. Number of students has remained about the
304	same, but changes with new housing off campus.
305	ii) Kim – says when Pheasant Run first opened, they were giving out passes for 4
306	parking spaces per apartment. Now she may give out 2 or 3 per apartment. She is
307	seeing more bikes and is purchasing more bike racks and is seeing more people at bus
308	stops. Maybe in her community it's not making an impact over the whole system.
309	iii) James – ridership has gone up over the last 10 years, maybe nearly doubled. And
310	more people are riding the bus from one side of campus to the other.
311	iv) Mary – She has spoken with Reggie at Public Transit, he said that Urban Exchange
312	doesn't have any students who ride the bus. Mary says it's because they have no
313	direct routes.

<ul> <li>314</li> <li>315</li> <li>316</li> <li>317</li> <li>318</li> <li>319</li> <li>320</li> <li>321</li> <li>322</li> <li>323</li> <li>324</li> </ul>	<ul> <li>v) Kim – says she has hourly service, but there's not a direct route either from Pheasant Run. On demand service was problematic for her residents.</li> <li>vi) James – Acknowledged the big hurdle involved with asking riders to transfer buses.</li> <li>f) Thanh summarized the priorities discussed <ul> <li>i) Prioritizing biking and walking infrastructure based on concentration of housing</li> <li>ii) Connecting where people spend the most time</li> <li>iii) Improving the bus schedule and provide more direct service</li> </ul> </li> <li>g) Kim is glad Pheasant Run did the lighting along the trail within Pheasant Run. <ul> <li>i) Tom Purcell Park is technically closed at night which is why it was not lighted.</li> </ul> </li> <li>h) Kim suggested connecting to what's in existence and making it better. Add on and extend to new location. Enhancing and increasing what is there, to make a longer trail, rather</li> </ul>
325	than start at a whole new place.
326	1
327	13) Thanh – Have we missed anything? Any questions for staff or from staff to the participants?
328	a) Adam – In communities, how many are not students and what mode of travel are they
329	using the most?
330	i) Kim – only about 2-3% are not students and they drive
331 332	ii) Mary – about 40% are not students (grad students on up) and they utilize all modes of travel. They have chosen to live downtown to be within walking and biking distance.
333	They may get into their car to go to work, but they chose this as home to enjoy the
334	downtown amenities.
335	iii) Jennifer – little to no non-students. North View has more non students due to lower
336	pricing and her company will be raising the price.
337	b) Luke – Really don't have a use for the bus system because he really doesn't see a place to
338	bus to. He has situated himself where he wants to walk to places.
339	c) Kim – Willow Hills is a good example of an opportunity where residents may utilize
340	trails if they led to downtown, campus etc. Perhaps there is an opportunity to use the
341	Bluestone Trail by Stone Spring Road, but it is rather intimidating with the hills and the
342 343	<ul><li>traffic. Thinks people would use trail system to get to downtown, campus, Purcell, etc.</li><li>d) Luke - Hills are a barrier for biking/walking. We live hilly area. Thinks that may be</li></ul>
343	where more bus routes should go, to connect those areas to parks and downtown. Thinks
345	more frequent bus lines would be good. Could charging more help? Are the buses free?
346	i) James – Only "free" to JMU students. Transit has a contract with JMU and it costs a
347	\$1.00 to ride the bus for non-JMU students (per ride), ridership has stayed steady for
348	the past few years.
349	e) Alleyn – Do you use the trails only during the day?
350	i) Kim – yes, I don't encourage using them at night due to no lighting, I don't feel safe
351	or secure at it gets closer to dusk. I don't worry about it during the day. Feels safe and
352	comfortable during the day. Its utilized frequently and a lot of traffic. Feels unsafe
353	during downtime when people are not around.
354 355	ii) James – Arboretum not lit at night, very treacherous.
355 356	14) Thanh – summarized next steps for the Bicycle & Pedestrian Plan.
357	15) Adam – Went over the 2016 Comprehensive Plan and encouraged them to come make
358	comments, etc. Also, made them aware of the Bike/Ped Plan.

## **Appendix D:**

ActiveTrans Methodology



#### Harrisonburg Bicycle and Pedestrian Plan - 2017

#### ActiveTrans Methodology

Individual variables within each of the five major categories – stakeholder input, constraints, existing conditions, connectivity, and equity – were scored based on metrics that are specific to each; yes or no, vehicles per day, distance across an intersection, citizen input from public work sessions, traffic speeds, persons per square mile, etc. For each variables or measurement, a decision has to be made as to what deserves priority; Is it more important to add bicycle and pedestrian facilities to high traffic streets, or low traffic streets? Should we improve intersections with short crossings first because they are easier, or long crossings first because they pose greater risks to pedestrian safety? The answers to these priority decisions are found below for each ActiveTrans variable, along with which projects (*Pedestrian Segments, Pedestrian Intersections, Bicycle Segments, or Shared Use Paths*) each variable applies to.

Scaling is also applied to each variable to compare variables that may be measured in different units, and to compare non-numeric values like "yes" or "no" by converting them to numeric values like 0 and 1. Proportionate scaling is used when a range of values has no outliers, while Quantile scaling is used for value ranges that may have outliers, dividing the values into either 4 or 10 quantiles. Inverse scaling can also be used with either Proportionate or Quantile scales when a high value for a variable is not a desirable quality. For mare about variable scaling and ActiveTrans methodology, consult the ActiveTrans Priority Tool Guidebook published by the National Cooperative Highway Research Program.

Variable scores are then multiplied by the weight factor for their category (constraints, equity, etc.) found on page 18, and added together to produce the Prioritization Scores found in Appendix E.

#### Stakeholder Input

#### **Number of Citizen Comments**

Applies to: All Projects

Scaling: Proportionate

The projects assessed by the ActiveTrans tool were generated by public comments gathered through:

- A Wiki Mapping exercise conducted by the Harrisonburg-Rockingham Metropolitan Planning Organization between April 19<sup>th</sup> and June 28<sup>th</sup>, 2013.
- One public input session held on May 19<sup>th</sup>, 2015,
- Five subsequent focus group meetings in Fall 2015, and
- Public comments collected during the development of this plan, the bulk was collected in May and June 2015.

Projects were scored based on the number of mentions or identifications each received during the public input process. The ActiveTrans analysis prioritized those projects with the highest level of public support or concern.

#### Included in an Existing Plan

Applies to: All Projects

Scaling: Proportionate

The ActiveTrans analysis prioritized those projects that were already included in existing City plans including the 2010 Bicycle and Pedestrian Plan, the 2011 Comprehensive Plan, and the city's Capital Improvements Plan. Projects with previous inclusions in these plans were prioritized over newly suggested projects.

#### **Constraints**

#### Available Right of Way

Applies to: All Projects

#### Scaling: Proportionate

Pedestrian and bicycle projects that can be constructed within existing rights-of-way (property owned by the City) will be easier, faster, and less costly to build. Therefore, the model prioritized projects that can be accomplished without purchasing additional right-of-way. The availability of right-of-way was estimated by taking measurements from the city's existing GIS mapping. The analysis required 8 feet of available space for pedestrian segments, or 17 feet for shared use paths. If these widths were not available at any point along the proposed segment, the project was judged to require additional right-of-way. For bicycle segments, a general assessment of pavement space was made, judging the potential to install bicycle lanes without widening roads or reducing number of vehicle travel lanes.

#### **Major Utility Relocation**

#### Applies to: All Projects

#### Scaling: Inverse Proportionate

Utilities include electric, gas, water, sewer, etc. Utility relocation can be complex and expensive. The ActiveTrans analysis promoted those projects that can likely be constructed without disturbing existing utility locations, both above and underground. A visual inspection of proposed projects was used to generally assess utility conflicts, although some underground utility conflicts can be hard to see. Projects were scored as having either no conflicts, minor conflicts affecting utility pedestals and other small features, of major conflicts requiring the relocation of overheard utility poles.

#### **Existing Conditions**

#### Vehicle Lanes

Applies to: Pedestrian Segments, Shared Use Paths

#### Scaling: Proportionate

The ActiveTrans model was constructed to prioritize pedestrian projects along those streets with more than 2 lanes. These wider roads are often main routes, connecting the city's most important destinations, and where pedestrians and cyclists are most in need of safe accommodations. For the purposes of this analysis, shared center turn lanes were included in the overall vehicle lane count. For Bicycle Segments, see Traffic Stress.

#### Speed Limit

#### Applies to: Pedestrian Segments, Pedestrian Intersections, Shared Use Paths

#### Scaling: Proportionate

In line with an overall approach to prioritize projects where the safety of pedestrians is most at risk, the ActiveTrans model prioritized pedestrian projects along streets with faster moving traffic. For Bicycle Segments, see Traffic Stress.

#### Average Daily Traffic

#### Applies to: Pedestrian Segments, Pedestrian Intersections, Shared Use Paths

#### Scaling: Proportionate

Prioritizing sidewalks, bike lanes, and path projects along high volume streets further promotes the approach of establishing a pedestrian network where safety is paramount. Therefore, the ActiveTrans model was constructed to promote projects along busy routes where safe pedestrian accommodations are needed most. For Bicycle Segments, see Traffic Stress.

#### **Traffic Stress**

#### Applies to: Bicycle Segments Only

#### Scaling: Proportionate

The Traffic Stress Index was established as a part of the Harrisonburg Community Bike Map Project to rate city streets based on their suitability for riders of different levels, from children and beginners to confident expert cyclists. The Traffic Stress Index was calculated by considering variables such as traffic, roadway speeds, road width, and whether bicycle lanes were present. These existing traffic stress scores were incorporated into the ActiveTrans model to promote bicycle segments that have the lowest stress and highest comfort for riders of all levels. For the map and Review Guide, visit www.harrisonburgva.gov/bike-map.

#### **Type of Traffic Control**

#### Applies to: Pedestrian Intersections Only

#### Scaling: Inverse Proportionate

For pedestrian intersection projects, the model rated whether traffic controls are currently in place, and what kind. Intersections were ranked as either having no traffic signal, a traffic signal only, or a traffic signal that includes pedestrian crossing signals. Intersections that currently have no existing signal at all were prioritized by the model.

#### Presence of Raised Median

#### Applies to: Pedestrian Intersections Only

#### Scaling: Proportionate

When crossing wide streets or divided routes, a raised median between travel lanes moving in opposite directions can serve as a refuge for crossing pedestrians, letting them confront only one direction of traffic at a time. Where a median is available or planned as part of a future improvement project, a proposed crossing project can be made to be safer and more comfortable; therefore, projects including a median were promoted.

#### **Distance from Nearest Traffic Signal**

#### Applies to: Pedestrian Intersections Only

#### Scaling: Inverse Quantile 10

In the interest of safety, pedestrians should only cross roadways at intersections. Where intersections are far apart, pedestrians are not given convenient options to cross. For this reason, the ActiveTrans model gave higher priority to pedestrian intersection improvements when the next available intersection is farther away, promoting more, and more closely spaced, opportunities for pedestrian crossing.

#### **ADA Compliance**

#### Applies to: Pedestrian Intersections Only

#### Scaling: Proportionate

The city's existing intersections vary in their compliance with the Americans with Disabilities Act (ADA), requiring curb ramps for wheelchair users and other disabled pedestrians. The model made improvements where ADA upgrades are needed a high priority, helping to serve the needs of all users. While curb ramps are necessary for many disabled users, they are also a great convenience for older users, young children, and parents with strollers.

#### Longest Crossing Distance

Applies to: Pedestrian Intersections Only

Scaling: Quantile 4

With variation in the width of city streets, pedestrians must sometimes cross long distances, especially when crossing major routes. Very long crossings are most in need of safe pedestrian options; therefore, the model ranked pedestrian intersection projects based on the longest crossing leg, prioritizing improvements to long crossings where pedestrian safety and comfort are most needed.

#### **Connectivity**

#### Connects to Existing or Proposed Sidewalks and Paths

Applies to: All Projects

#### Scaling: Proportionate

The ultimate goal of the Bicycle and Pedestrian Plan is to construct a network of connected improvements that allow seamless pedestrian and bicycle trips in all areas of the city. To best meet this goal, the ActiveTrans analysis promotes those projects that connect to other existing or proposed facilities, maximizing the overall bicycle and pedestrian network.

#### Safe Route to School Link

#### Applies to: All Projects

#### Scaling: Proportionate

Safe routes to schools are especially important to the overall connectivity goals of the Bicycle and Pedestrian Plan, and promote safe and convenient opportunities for children to bike and walk to and from schools. The importance of projects that provide safe routes to schools is compounded by the availability of special grants to fund projects of this type. For the purposes of this analysis, the model promoted bicycle improvements located within 1 mile of a school, and pedestrian projects located with 0.5 miles of a school.

#### Along Public Transit Route

#### Applies to: Pedestrian Segments, Bicycle Segments, Shared Use Paths

#### Scaling: Proportionate

Connections between bicycle, pedestrian, and transit facilities further enhances the ability of residents and visitors to navigate Harrisonburg without access to an automobile. For this reason, the model promoted projects that are along established transit routes. Project segments that are parallel to existing transit routes are ranked higher by the model, as well as some non-parallel routes at the discretion of city staff and the Bicycle & Pedestrian Subcommittee.

#### <u>Equity</u>

#### **Equity Score**

Applies to: All Projects

#### Scaling: Proportionate

While pedestrian and bicycle facilities are an amenity to many residents of Harrisonburg, they are a necessity for those who do not have access to a car because of their age, financial situation, or disability. To help deliver bicycle and pedestrian infrastructure to those who need it most, city staff and the Bicycle and Pedestrian Subcommittee devised an equity score of each project based on four criteria:

- 1. Percentage of the population classified as low and moderate income
- 2. Percentage of the population under 18 years old
- 3. Percentage of the population over 65 years old
- 4. Percentage of households who do not own a vehicle

Each of these factors was mapped for census block groups nearest a proposed project, and projects with high equity scores ranked higher by the ActiveTrans model.

#### **Population Density**

Applies to: All Projects

Scaling: Quantile 10

The ActiveTrans model promoted projects near where more people live in order to serve the greatest need for bicycle and pedestrian facilities, and to deliver the greatest benefit to residents for limited construction funds. This analysis uses census block group data for population density.

#### Activity or Employment Density

Applies to: All Projects

Scaling: Quantile 10

In order to prioritize projects where demand for pedestrian and bicycle routes is high, the model gave higher ranking to projects in or near activity and employment centers, creating options for biking or walking to work and other errands.

### Harrisonburg Bicycle & Pedestrian Plan 2017

ActiveTrans Priority Tool - Variable Scaling

	Ped Segment	Ped Intersection	Bike Segment	Shared Use
Stakeholder Input				
Requests & Comments	Proportionate	Proportionate	Proportionate	Proportionate
Included in Adopted Plan	Proportionate	Proportionate	Proportionate	Proportionate
Constraints				
Available Right of Way	Proportionate	Proportionate	Proportionate	Proportionate
Major Utility Relocation	Inv. Proportionate	Inv. Proportionate	Inv. Proportionate	Inv. Proportionate
Existing Conditions				
Total Vehicle Lanes	Proportionate	Х	Х	Proportionate
Posted Speed Limit	Proportionate	Proportionate	х	Proportionate
Average Daily Traffic (ADT)	Proportionate	Proportionate	Х	Proportionate
Fraffic Stress	х	Х	Proportionate	х
Type of Traffic Control	х	Inv. Proportionate	Х	х
Presence of Raised Median for Refuge	х	Proportionate	х	х
Distance from Nearest Traffic Signal	х	Inv. Quantile 10	Х	х
ADA Compliance	х	Proportionate	Х	х
ongest Crossing Distance	х	Quantile 4	х	х
Connectivity				
Connects to Existing Sidewalk/Path	Х	Proportionate	Х	х
Connects to Proposed Sidewalk/Path	х	Х	Х	х
Connectivity	Proportionate	Х	Proportionate	Proportionate
Safe Routes to School	Proportionate	Proportionate	Proportionate	Proportionate
ocated on Transit Route	Proportionate	х	х	Proportionate
Equity				
Equity Score	Proportionate	Proportionate	Proportionate	Proportionate
Population Density	Quantile 10	Quantile 10	Quantile 10	Quantile 10
Activity/Employment Density	Quantile 10	Quantile 10	Quantile 10	Quantile 10

## **Appendix E:**

GIS and Equity Score Methodology



#### GIS Methodology for 2017 Bicycle & Pedestrian Plan

#### Equity Analysis

To facilitate scoring for the equity factor in the project prioritization process, an equity analysis was performed. This analysis took into consideration the geographic distribution of traditionally transportation-disadvantaged and underrepresented populations using the following metrics:

#### Percentage of population classified as low and moderate income (LMI)

Data was obtained from the U.S. Census Bureau's American Community Survey 5-year estimates (2006-2010), which were appended by the U.S. Department of Housing and Urban Development (HUD) to included LMI population estimates. More information about HUD's methodology for determining LMI population estimates can be found at: <u>https://www.hudexchange.info/manage-a-program/acs-low-mod-summary-data/</u>.

Data are presented at the block group level and was classified into five groups using the Jenks natural breaks classification method: <u>https://en.wikipedia.org/wiki/Jenks\_natural\_breaks\_optimization</u>.

#### Percentage of population under 18 years of age

Data on age was obtained from the U.S. Census Bureau's American Community Survey 5-year estimates (2009-2013). Data are presented at the block group level and was classified into five groups using the Jenks natural breaks classification method:

https://en.wikipedia.org/wiki/Jenks\_natural\_breaks\_optimization.

#### Percentage of population 65 years of age and older

Data on age was obtained from the U.S. Census Bureau's American Community Survey 5-year estimates (2009-2013). Data are presented at the block group level and was classified into five groups using the Jenks natural breaks classification method:

https://en.wikipedia.org/wiki/Jenks\_natural\_breaks\_optimization.

#### Percentage of households that do not own a vehicle

Data on vehicle ownership was obtained from the U.S. Census Bureau's American Community Survey 5year estimates (2009-2013). Data are presented at the block group level and was classified into five groups using the Jenks natural breaks classification method:

https://en.wikipedia.org/wiki/Jenks\_natural\_breaks\_optimization.

To development an overall equity score to tie these four variables together, each variable was first given a 1-5 score by block group. This score was derived from the methodologies described above for each variable (e.g. – the first of five class groupings for the Percent Under 18 variable is 0-3%, so block groups falling in that range were given a score of 1). In all cases, higher percentages for each variable were considered to be more indicative of a concentration of a transportation-disadvantaged population.

The scores for the four variables were summed, giving a possible score range of 4-20. To covert these values to a final 1-5 equity score, this range was divided into five approximately equal groups, as follows:

Final 1-5 Score	Range of Summed Variable Scores
1	4 – 7
2	7.1 - 10
3	10.1 – 13
4	13.1 – 16
5	16.1 - 20

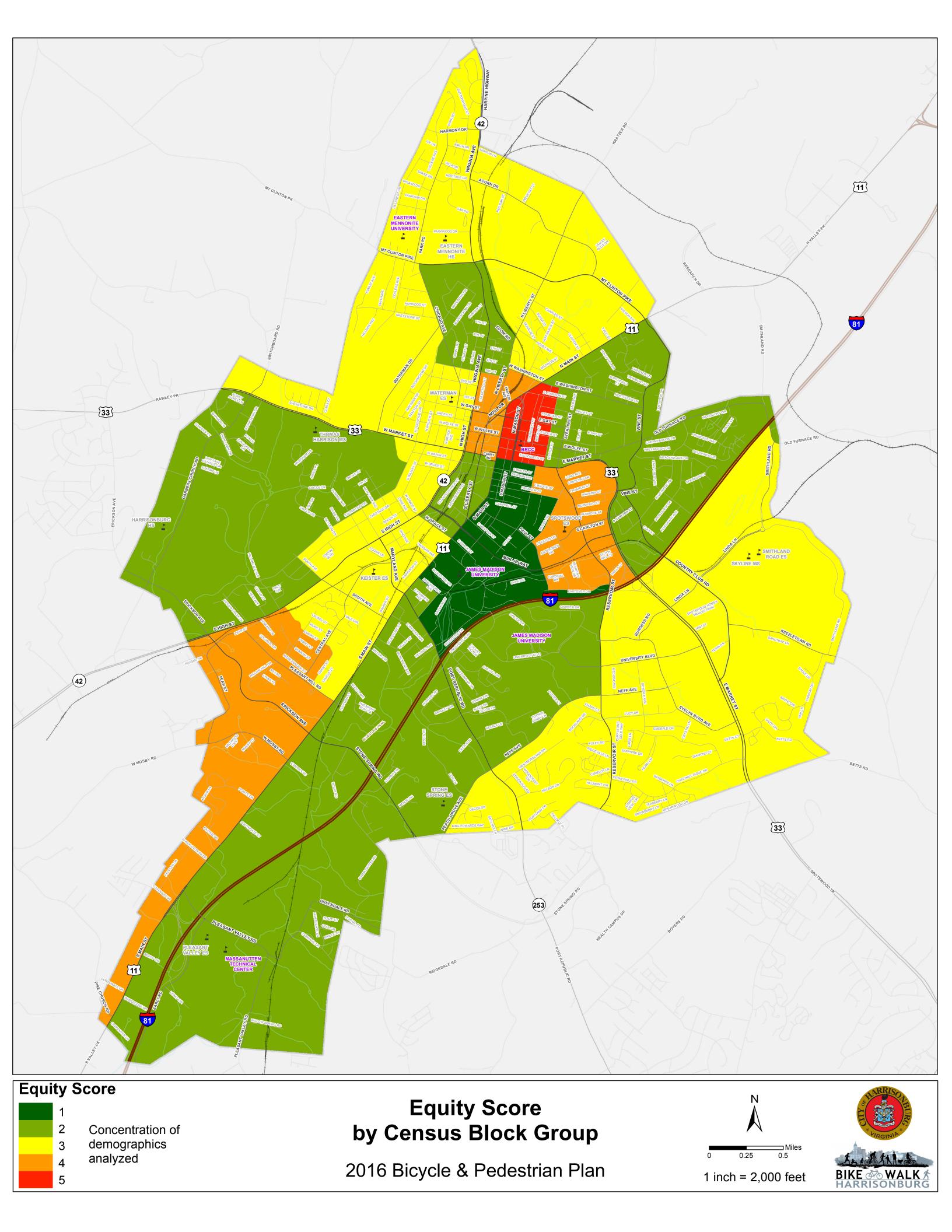
#### Other Maps

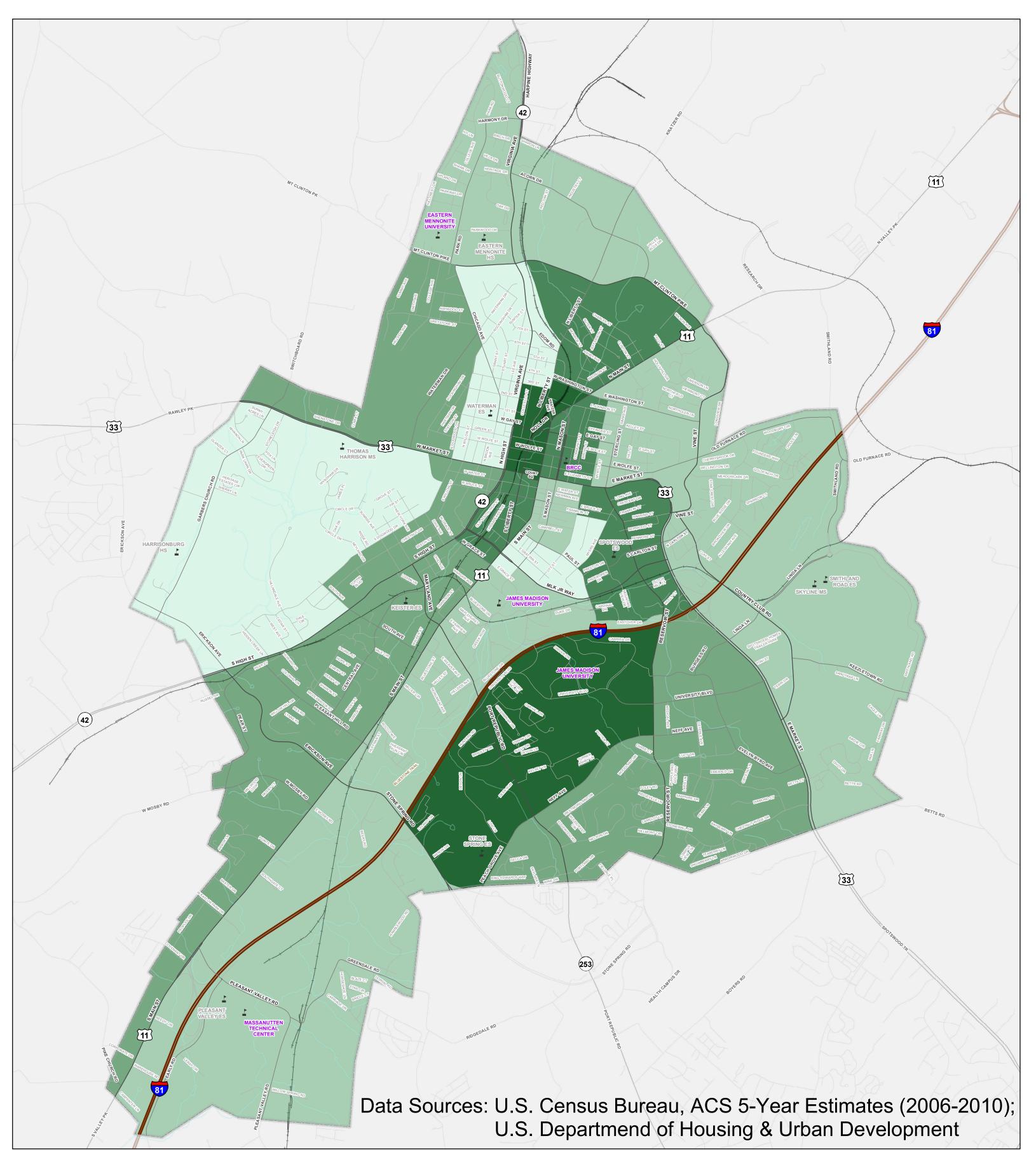
#### **Population Density**

Data on population was obtained from the U.S. Census Bureau decennial 2010 Census. Data are presented at the block level in the format of population per square mile of land area and are classified using quantiles to limit the influence of outlier data.

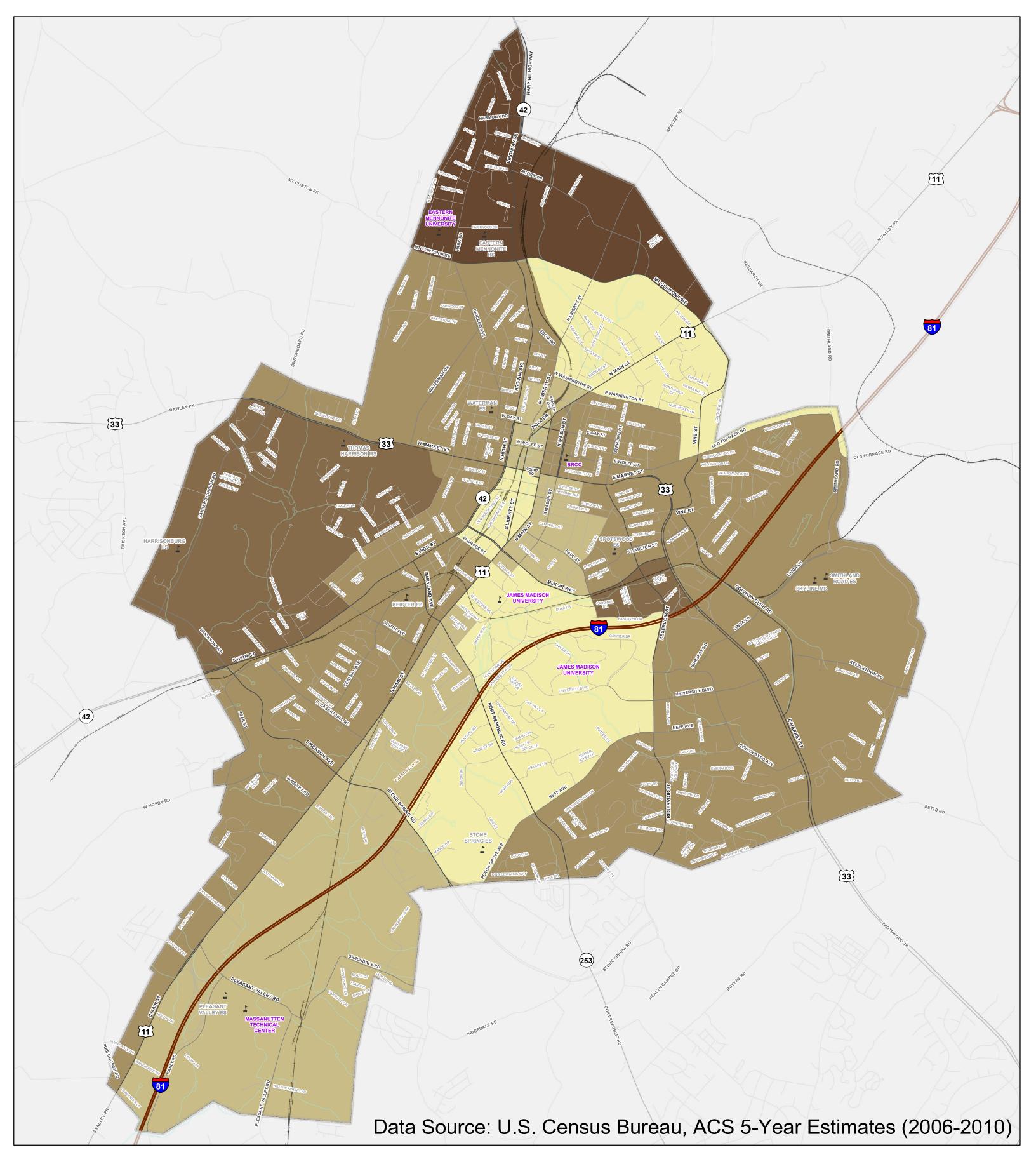
#### **Employment Density**

Data was derived from the U.S. Census Bureau's American Community Survey 5-year estimates (2006-2010). These data were manipulated into tract-to-tract commuter worker flows by the Federal Highway Administration and are available in their Census Transportation Planning Products (<u>http://www.fhwa.dot.gov/planning/census\_issues/ctpp/</u>). Estimates for the number of workers commuting from a one tract to another tract were consolidated to determine the total number of workers commuting to each tract within the City of Harrisonburg. Data are presented at the tract level in the format of workers per square mile of land area and are classified using quantiles to limit the influence of outlier data.





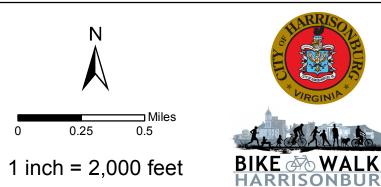
Percent LMI Population	Percent of Persons with	Ν	HARRISON
25 - 37%			
38 - 50%	Low-Moderate Income (LMI)	$\square$	* L'ACINIA
51 - 65%	by Census Block Group	Miles	
66 - 86%		0 0.25 0.5	ALL BALLER
87 - 99%	2016 Bicycle & Pedestrian Plan	1 inch = 2,000 feet	BIKE 🗞 WALK 🕅 HARRISONBURG

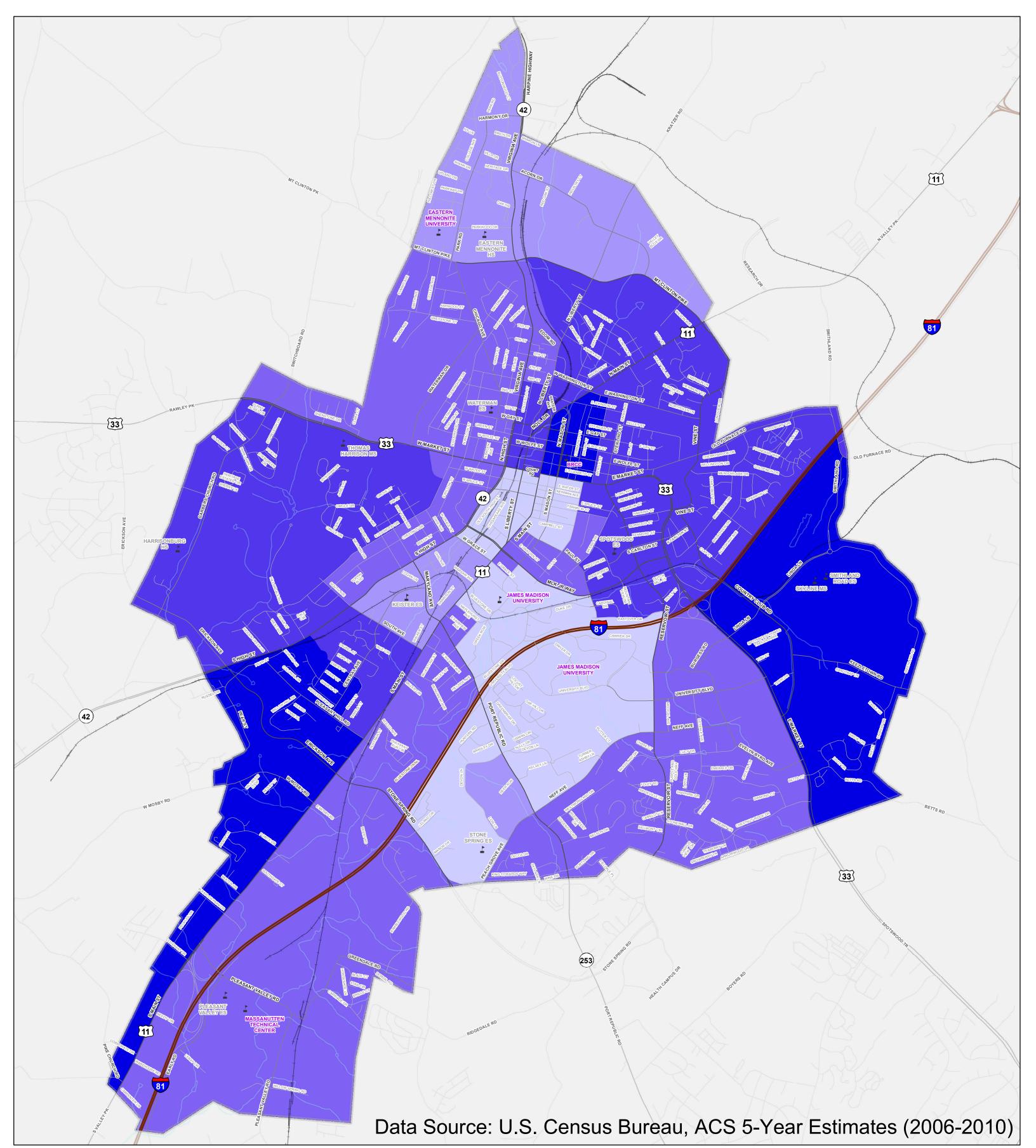


Percent Over 64		
	0 - 2%	
	3 - 6%	
	7 - 12%	
	13 - 19%	
	20 - 31%	

## Percent Over 64 by Census Block Group

2016 Bicycle & Pedestrian Plan



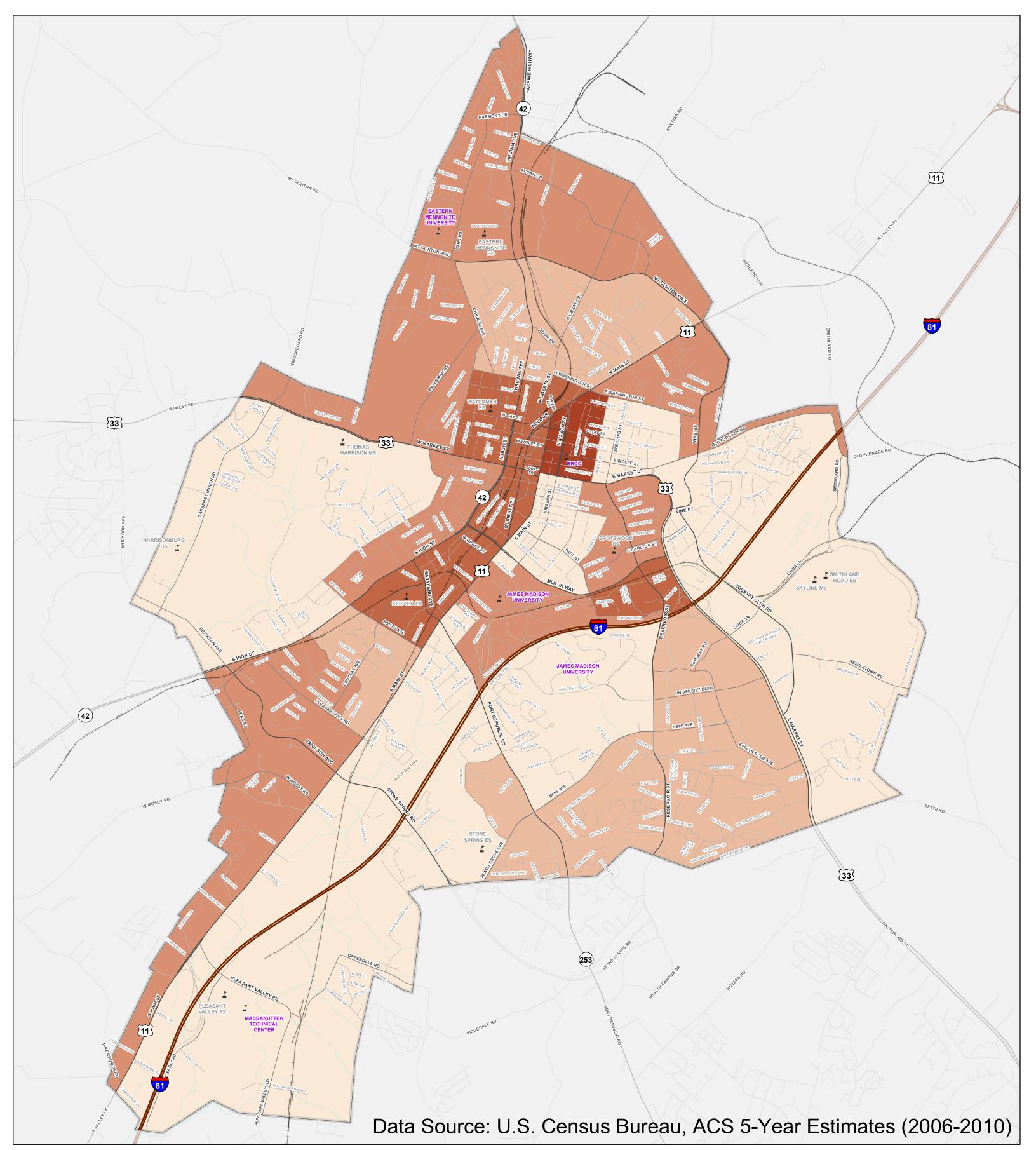


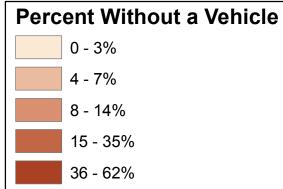
Perc	ent Under 18
	0 - 3%
	4 - 11%
	12 - 19%
	20 - 25%
	26 - 38%

# Percent Under 18 by Census Block Group

2016 Bicycle & Pedestrian Plan

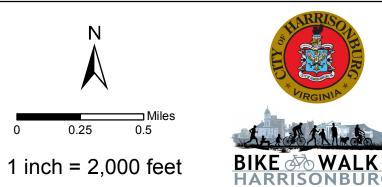
 $\begin{array}{c}
N\\
0\\
0\\
0.25\\
0.5
\end{array}$   $\begin{array}{c}
\text{Miles}\\
\text{BIKE} \\
\text{WALK}\\
\text{HARRISONBUR}
\end{array}$ 

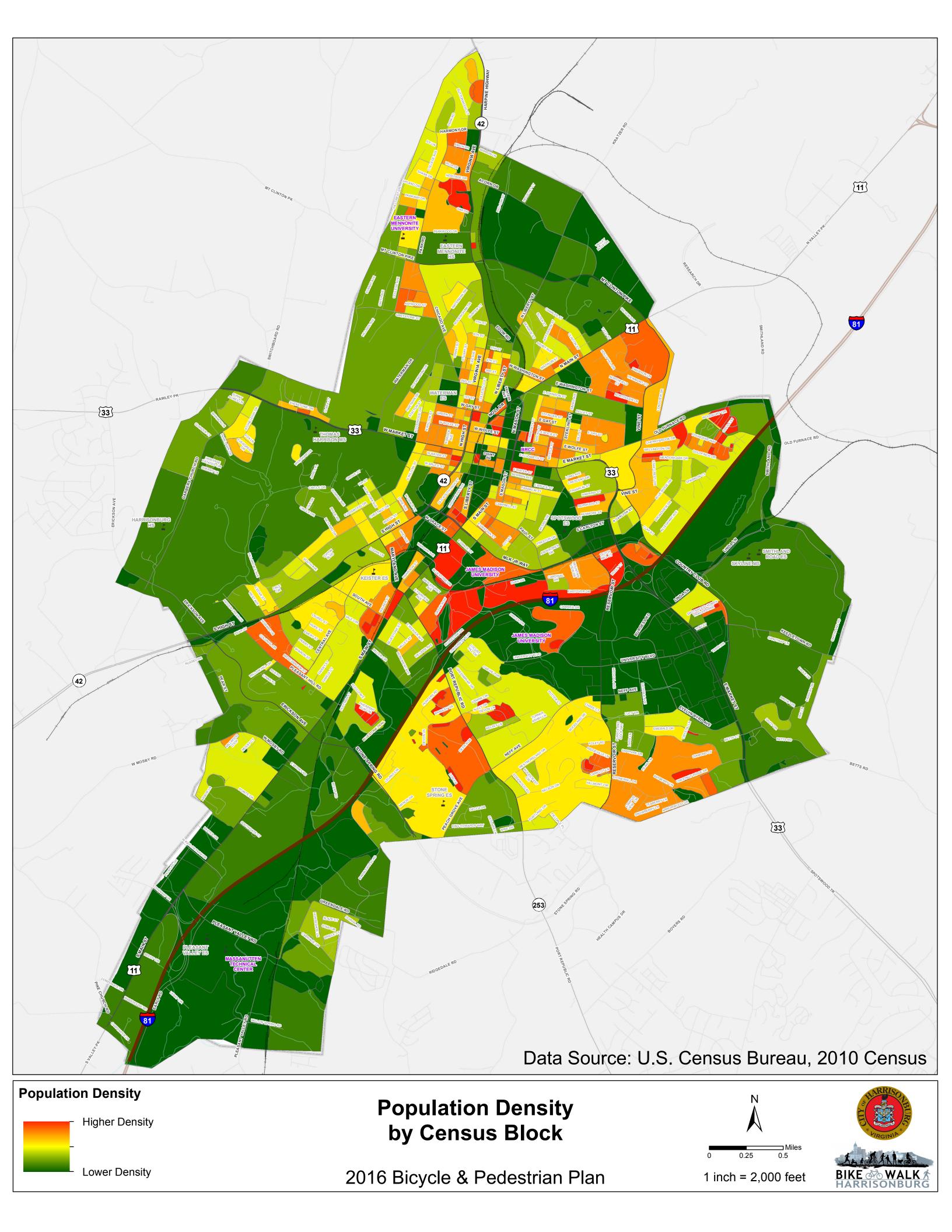


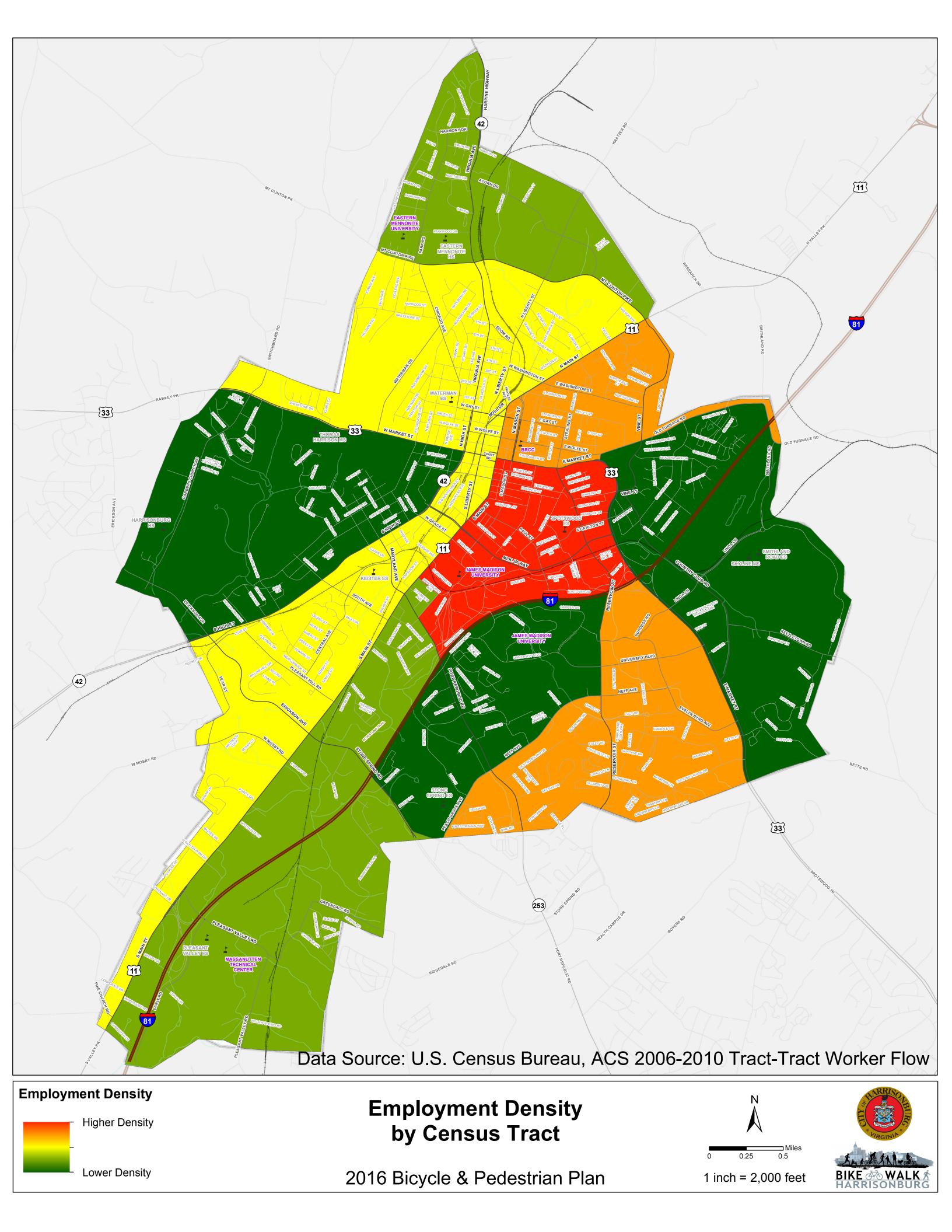


# Households Without a Vehicle by Census Block Group

2016 Bicycle & Pedestrian Plan







## **Appendix F:**

Network & Facility Recommendations



PEDEST	PEDESTRIAN SEGMENTS - ActiveTrans Priority Rank	<b>TS</b> - ActiveT	rans Priorit	ty Rank							
D	Stakeholder Input - score	Stakeholder Input - weighted score	Constraints - score	Constraints - Weighted score	Existing Conditions - score	Existing Conditions - weighted score	ςουυθετινίτ <sub>ν</sub> - score	Connectivity - weighted score	Equity - score	Equity - weighted score	prioritization Score
PS-1 Virginia Ave-Mt Clinton Pk-North City Limits	6.1	18.2	7.8	77.8	8.4	84.0	5.0	30.0	5.4	32.2	242.2
	6.1	18.2	10.0	100.0	4.8	48.2	10.0	60.0	1.9	11.7	238.1
PS-3 E Market St-MLK Jr Way-Linda Ln	7.5	22.5	5.0	50.0	7.3	72.5	5.0	30.0	8.8	52.8	227.8
	6.1	18.2	5.0	50.0	9.1	91.4	5.0	30.0	5.1	30.5	220.1
	5.4	16.1	7.8	77.8	3.0	30.4	10.0	60.0	5.4	32.2	216.5
	6.4	19.3	7.8	77.8	4.2	42.2	5.0	30.0	6.5	38.9	208.1
	1.8	5.4	2.8	27.8	4.7	47.2	10.0	60.0	9.2	55.0	195.4
	0.0	0.0	7.8	77.8	8.3	83.3	0.0	0.0	5.3	31.7	192.8
PS-9 Port Republic Rd-S Main St-Bluestone Dr DS-10 Country Club Rd-Vine St-E Market St	10.7	30.0	0.0	0.0 27 8	7.1	71.3 38.6	10.0	60.0	8.3	50.0 22.8	183.4
	0.0	0.0	0.0	0.0	7.2	72.2	10.0	60.0	5.8	35.0	167.2
	5.7	17.1	2.8	27.8	4.8	48.2	10.0	60.0	1.9	11.7	164.8
	0.4	1.1	0.0	0.0	4.7	47.2	10.0	60.0	9.2	55.0	163.3
PS-14 Portland Dr-Port Republic-End	5.4	16.1	7.8	77.8	0.8	8.3	5.0	30.0	5.0	30.0	162.2
	7.9	23.6	2.8	27.8	1.5	15.2	10.0	60.0	5.4	32.2	158.8
PS-16 University Blvd-Reservoir St-E Market St	6.4	19.3	2.8	27.8	5.5	55.1 44 8	5.0	30.0	4.3 F 1	25.5 20 F	157.7
P3-17 W NOUX 31-14 Right 31-Offecti Street PS-18 Ram blewood Rd-East of Mineral Springs Bd to Snirth of Stone Spring Boad	0.0	0.0	10.0	100.00	1.0	9.44.0	5.0	30.0	1.6	0.0c	153.7
	8.6	25.7	2.8	27.8	3.5	35.1	5.0	30.0	5.4	32.2	150.8
	1.8	5.4	0.0	0.0	2.1	20.9	10.0	60.0	9.2	55.0	141.3
PS-21 E Gay St-Myrtle St-Summit St	5.0	15.0	5.0	50.0	1.1	11.0	5.0	30.0	5.3	31.6	137.7
	5.4	16.1	5.0	50.0	0.9	9.4	5.0	30.0	5.4	32.2	137.6
PS-23 Sterlign St-E Elizabeth St-Erthinger St	5.0	15.0	0.0	0.0	1.0	10.3	10.0	60.0	8.5	51.1	136.4
P3-24 Midi yidiu AVE-5 Filgii 3t-Cetitidi AVE DS-35 Lee Ave-M Gav Ct-7th Ct	0.0	16.1	0.0	0.00	6.T	0.01	0.0	30.05	1.0	30.0	130.4
	6.1	18.2	0.0	0.0	4.3	42.9	5.0	30.0	6.8	41.1	132.2
	6.8	20.4	0.0	0.0	5.5	55.1	5.0	30.0	4.3	25.5	131.0
	6.8	20.4	0.0	0.0	2.3	23.1	10.0	60.0	4.5	27.2	130.7
PS-29 MLK Jr Way-Mountain View Dr-Ott St	0.7	2.1	5.0	50.0	0.9	8.8	5.0	30.0	6.6	39.4	130.4
PS-30 S High St-Rockingham Square Shopping Center-Erickson Ave	0.4	1.1	0.0	0.0	7.1	71.0	5.0	30.0	4.4	26.1	128.2
	5.0	15.0	0.0	0.0	1.1	11.0	10.0	60.0	6.9	41.6	127.7
	5.4	16.1	5.0	50.0	0.8	8.3	5.0	30.0	3.8	22.8	127.2
	0.0	0.0	2.8	27.8	4.2	42.1	5.0	30.0	4.4	26.1	126.0
	0.4	1.1	0.0	0.0	0.8	8.3	10.0	60.0	9.2	55.0	124.4
	7.0	1/.1	7.0	11.8	0.8	8.3 0.3	0.0	0.0	C.5	1.12	124.4
	0.6	15.U	0.0	0.02	0.8	8.3 43.0	0.2	30.0	× ۲	16./ 75.5	120.0
P3-36 NEILAVE-RESEIVOIL SI-VAIIEY MAII	0.4 1	15.1	0.0	0.0	4.4	43.8	0.01	50.0	4.5 A D	2.0.2	414 2
	5.7	17.1	2.8	27.8	1.0	10.1	5.0	30.0	4.8	28.9	113.9
	0.0	0.0	0.0	0.0	1.9	19.1	10.0	60.0	5.7	34.4	113.5
PS-42 Pleasant Hill Rd (entire length)	5.7	17.1	0.0	0.0	1.9	19.3	5.0	30.0	6.9	41.6	108.1
	0.0	0:0	2.8	27.8	0.8	8.3	5.0	30.0	6.9	41.6	107.8
PS-44 W Mosby Rd-S Main St-Millwood Loop	0.4	1.1	0.0	0.0	4.4	43.6	5.0	30.0	5.1	30.5	105.2

	Prioritization Score	104.6	104.3	104.1	100.8	98.9	97.1	96.5	94.9	94.4	93.2	93.1	90.7	89.9	88.8	88.2	85.8	80.5	80.1	78.2	75.6	75.5	74.4	73.8	69.4	6.9	62.1	62.1	60.5	59.4	57.2	48.8	41.7	34.0
	equity - Weighted score	18.9	31.6	46.1	27.8	27.8	21.1	39.4	39.4	55.0	52.8	37.2	32.8	41.7	34.4	33.3	29.4	28.3	37.2	22.8	21.1	21.1	21.1	34.4	30.0	26.1	36.6	36.6	21.1	51.1	42.2	32.2	18.3	23.3
	Equity - score	3.1	5.3	7.7	4.6	4.6	3.5	6.6	6.6	9.2	8.8	6.2	5.5	6.9	5.7	5.6	4.9	4.7	6.2	3.8	3.5	3.5	3.5	5.7	5.0	4.4	6.1	6.1	3.5	8.5	7.0	5.4	3.1	3.9
	Connectivity - Weighted score	60.0	60.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	0.0	30.0	30.0	30.0	30.0	0.0	30.0	30.0	0.0	0.0	0.0	30.0	0.0	0.0	0.0	0.0	0.0
	Connectivity - score	10.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.0	5.0	5.0	5.0	5.0	0.0	5.0	5.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
	Existing Conditions - weighted score	9.7	12.7	9.8	15.2	12.3	29.9	8.8	8.3	8.3	8.3	8.8	10.8	18.2	8.3	8.8	10.3	8.3	9.7	8.3	9.5	8.3	8.3	8.3	8.3	13.0	8.3	8.3	8.3	8.3	0.0	16.6	8.3	10.7
Rank	Existing Conditions - <sup>score</sup>	1.0	1.3	1.0	1.5	1.2	3.0	0.9	0.8	0.8	0.8	0.9	1.1	1.8	0.8	0.9	1.0	0.8	1.0	0.8	0.9	0.8	0.8	0.8	0.8	1.3	0.8	0.8	0.8	0.8	0.0	1.7	0.8	1.1
s Priority H	Constraints - weighted score	0.0	0.0	0.0	27.8	27.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.8	0.0	0.0	0.0	0.0	27.8	0.0	0.0	27.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ActiveTran	Constraints - score	0.0	0.0	0.0	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	2.8	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0:0	0.0	0.0	0.0
rtinued) -	arose baitaiaw - inqui labiodajates	16.1	0.0	18.2	0.0	1.1	16.1	18.2	17.1	1.1	2.1	17.1	17.1	0.0	16.1	16.1	16.1	16.1	3.2	17.1	15.0	16.1	17.1	1.1	1.1	0.0	17.1	17.1	1.1	0.0	15.0	0.0	15.0	0.0
1ENTS (cor	Stakeholder Input - score	5.4	0.0	6.1	0.0	0.4	5.4	6.1	5.7	0.4	0.7	5.7	5.7	0.0	5.4	5.4	5.4	5.4	1.1	5.7	5.0	5.4	5.7	0.4	0.4	0.0	5.7	5.7	0.4	0.0	5.0	0.0	5.0	0.0
PEDESTRIAN SEGMENTS (continued) - ActiveTrans Priority Rank	LOCATION	5 S Dogwood Dr-W Market St-Hidden Creek Ln		7 Ott St-Franklin St-E Water St	8 South Ave-RR Tracks Closest to S High St	9 Park Rd-Mt Clinton Pk-Harmony Dr	0 Waterman Dr-W Market St-Chicago Ave	1 Mountain View dr-S Carlton St-Myers Ave	2 Myers Ave-Paul St-Mountain View Dr	3 Harkins St-Reservoir St-E Market St	4 Paul St-MLK Jr Way-Duke Dr	5 Mountain View Dr-MLK Jr Way-S Carlton St	6 W Wolfe St-N High St-N liberty St	7 Reservoir St- Long Ave-Myers Ave	8 Greystone St-Smith Ave-Chicago Ave	9 Ott St- E Grattan St-Franklin St	0 Sterling St-E Market St-E Elizabeth St	1 Pear St-Erikson Ave-Pleasant Hill Rd	2 Paul St-Myers Ave-MLK Jr Way	3 Stuart St-Taliaferro Dr-3rd St		5 3rd St-Stuart St-N Dogwood Dr	6 Smith Ave-Existing Sidewalk-Mt. Clinton Pike	7 Greystone St (entire length)	8 Jefferson St-Charles St-W Washington St	9 Pear St-W Mosby Rd-Ruby Dr	0 Central Ave-Greystone St-Shenandoah St	1 Shenandoah St-College Ave-Chicago Ave	2 S Willow St-W Market St-JMU Entrance					7 Parkwood Dr-Vriginia Ave-Park Rd
	9	PS-45	PS-46	PS-47	PS-48	PS-49	PS-50	PS-51	PS-52	PS-53	PS-54	PS-55	PS-56	PS-57	PS-58	PS-59	PS-60	PS-61	PS-62	PS-63	PS-64	PS-65	PS-66	PS-67	PS-68	PS-69	PS-70	PS-71	PS-72	PS-73	PS-74	PS-75	PS-76	PS-77

International         Internat	PEDESTRIAN INTERSECTIONS - ActiveTrans Priority Rank	NTERSECTIO	NS - ActiveT	rans Priorit	ty Rank						
Derivative Red S Mung         Stand         Stand<			Stakeholder Input - Weighted score				Connectivity - score			Equity - weighted score	Prioritization Score
Mind Solution         Mind Solution         Mind Solution         Solution Solution         Solut						72.2	10.0	60.0	7.2	43.3	240.5
French Constrain			0			29.8	10.0	60.0	7.7	46.1	209.9
Seminary & home of S-Hynisk & Meme of S-Hynisk						40.7	10.0	60.0	7.6	45.5	196.2
Step: St. W. Water St.         Cold         Col						48.0	5.0	30.0	5.8	35.0	190.8
5 High SR Merric         5 High SR Meric         5						65.1	10.0	60.0	5.4	32.2	185.1
S UBMER S MANNELS         S U MANNE S MANNE S MANNELS         S U MANNE S						41.2	10.0	60.0	5.5	32.8	184.0
5 Maint's Resamurality-Ind         5 on 51         5 and 55 (and 50 (						35.9	10.0	60.0	5.6	33.9	181.5
S High SK Woncest         50         15.0         2.8         2.9         5.9         5.0         3.0         5.3         3.55           S Misor SK Woncest         5         5.0         0.0         0.0         0.0         6.0         6.3         3.25           S Misor SK E Molc.St         5         5         0.0         6.00         6.3         3.26           S Misor SK E Molc.St         0.0         0.0         2.8         2.78         4.3         4.00         6.0         6.3         3.26           S Misor SK E Wolc.St         0.0         0.0         2.8         2.78         4.3         4.00         6.0         6.3         3.26           S Misor SK E Wolc.St         0.0         0.0         2.8         2.78         4.3         4.00         6.0         7.6         4.61           Unprise Wolc.St         0.0         0.0         0.0         0.0         5.7         5.3         2.01         6.00         7.6         4.61           Unprise Wolc.St         0.0         0.0         0.0         0.0         0.0         5.7         4.61         7.00         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0						68.7	5.0	30.0	5.1	30.5	179.2
Mason S & Endors         Mason S & Endors         Second S & Endors						49.2	10.0	60.0	4.3	25.5	177.5
5 Vidensing ke fixed:         5 vidensi         5 vidensing ke fixed:         5 viden						55.5	10.0	60.0	6.3	37.8	177.2
S Libery SR & Wances;						49.1	10.0	60.0	6.3	37.8	174.6
Nasen Sk (Unter):         Vingen Sk (Unter):         273         373         273         373 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>40.6</td><td>10.0</td><td>60.0</td><td>3.4</td><td>20.5</td><td>172.9</td></td<>						40.6	10.0	60.0	3.4	20.5	172.9
Nighing Ave Bit Antifon Pictone						42.9	10.0	60.0	6.7	40.0	170.7
Elberty SR Reterict Sreating State         Elberty SR Reterict Sreating State         2.0         0.0         0.0         0.5         5.3         0.0         6.0         8.1         48.3           The Market SR Reterict Sreating State         The Market SR Reterict State         0.0						55.0	5.0	30.0	3.9	23.3	164.3
E Market SR Reservoit Systeming St.         E Market SR Reservoit Systeming St.         E Market SR Reservoit Systeming St.         E Market SR Reservoit Steming St.         M = M = M = M = M = M = M = M = M = M =						26.3	10.0	60.0	8.1	48.3	158.7
Pert Repution fload Net Aleri         Constrained Net Aleri						46.2	10.0	60.0	7.7	46.1	158.3
Christep Ave & Watternan Dr         Christep Ave & Watternan Dr <t< td=""><td></td><td></td><td></td><td></td><td></td><td>52.7</td><td>10.0</td><td>60.0</td><td>7.6</td><td>45.5</td><td>158.2</td></t<>						52.7	10.0	60.0	7.6	45.5	158.2
N Main S & Emerson Lu         N Main S & Emerson Lu         N Main S & Emerson Lu         4.7         4.7         4.7         4.3         4.3           S High S & M Grace St         0.0         0.0         0.0         0.0         0.0         6.0         6.5         389           N High S & W Grace St         0.0         0.0         0.0         0.0         2.8         2.8         1.00         6.00         6.5         389           R eservoir St & Norwood St         0.0         0.0         0.0         0.0         2.8         7.8         4.6         6.0         6.0         5.5         3.8           S High S & Boxter)         0.0         0.0         0.0         0.0         0.0         0.0         6.0         5.0						29.9	10.0	60.0	3.5	21.1	153.8
N Hierry & W Grace St. Notword Notword Notword Notword St. Notword Notword St. Notword St. Notword St. Notword St. Notword St. Notword Notword St. Notword Notword Notword Notword St. Notword Notword St. Notword Notword St. Notword						47.2	5.0	30.0	7.2	43.3	148.3
N Ubery St W Gay St         N Uber St	- 1					48.9	10.0	60.0	6.5	38.9	147.8
Reservoir St & Morwood St         Descroir St & Morwood St         Distribution         Distrin						28.2	10.0	60.0	5.5	32.8	145.0
S High St& South Ave						27.0	10.0	60.0	9.2	55.0	142.0
S Main SK & Baxter Dr         S Main SK & Baxter Dr         S Main SK & Baxter Dr         S Main SK & Maxter Dr         S Maxter Dr						53.0	10.0	60.0	4.6	27.8	140.8
S Main SR & W Kaylor Park Dr         S Main SR & M K I Mark         S M S & M K I M S M K I Mark         S M S & M K I M S M K I M S M K I M K I M K I M K I M K R M S College Ave         M C M K I M K R College Ave         M C M K R M K College Ave         M C M K R M K College Ave         M C M K R M K R M K College Ave         M C M K R M K M K						46.4	5.0	30.0	5.1	30.5	134.8
SMain S& MLK / Way         Stain S         Stain S <th< td=""><td></td><td></td><td></td><td></td><td></td><td>68.7</td><td>5.0</td><td>30.0</td><td>5.1</td><td>30.5</td><td>129.2</td></th<>						68.7	5.0	30.0	5.1	30.5	129.2
Virginia Ave & Harmony Dr         Out         0.0         0.0         2.8         27.8         5.0         5.0         30.0         2.8         16.7           M. Clinton Pike at Gift R Thirft         0.0         0.0         2.8         27.8         4.3         5.0         30.0         5.9         30.0         5.9         23.3           Vins File at Gift R Thirft         0.0         0.0         2.8         27.8         4.3         5.0         30.0         5.9         30.3         5.3         21.1           Vinghia Ave & Acon Drive         0.0         0.0         2.8         27.8         4.3         5.0         30.0         5.5         31.0         5.7         31.1           Park Rd & EMU Science Center         0.0         0.0         2.8         27.8         1.8         1.8         5.0         30.0         5.5         31.0           Vine St & Olde Eventer         0.0         0.0         2.8         27.8         1.8         1.8         31.6         7.1           Vine St & Olde Eventer         0.0         0.0         2.0         30.0         5.0         30.0         5.0         30.0         5.0         30.0         5.0         30.0         5.0         30.0         5.0						50.3	5.0	30.0	7.1	42.8	126.1
Mt. Clinton Pike at Gift & Thirft       0.0       0.0       2.8       27.8       4.3       4.3.1       5.0       30.0       3.9       2.3.3         Vines ke & Korn Drive       0.0       0.0       2.8       27.8       3.0       3.0       5.6       3.3.9         Vines ke & Korn Drive       8.0       24.0       0.0       0.1       6.6       4.5       5.0       30.0       5.5       2.1.1         Park ke & KeUS condered       0.0       0.0       5.0       5.0       5.0       30.0       5.5       2.1.1         Park ke & KeUS condered       0.0       0.0       5.0       5.0       30.0       5.5       2.1.1         Park ke & KeUS condered       0.0       0.0       0.0       2.8       27.8       1.8       1.8.3       5.0       30.0       5.0       30.0       5.0       30.0       5.0       30.0       5.0       30.0       5.0       30.0       5.0       30.0       5.0       30.0       5.0       30.0       5.0       30.0       5.0       30.0       5.0       30.0       5.0       30.0       5.0       30.0       5.0       30.0       5.0       30.0       5.0       30.0       5.0       30.0       5.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td>50.3</td> <td>5.0</td> <td>30.0</td> <td>2.8</td> <td>16.7</td> <td>124.7</td>						50.3	5.0	30.0	2.8	16.7	124.7
Vine St & E Washington St       Une St & E Washington St       310       216       319         Virginia Ke & Acorn Drive       0.0       24.0       0.0       4.6       4.5.       5.0       30.0       5.6       319         Pirginia Ke & Acorn Drive       0.0       0.0       24.0       0.0       4.6       4.5.       5.0       30.0       5.5       21.1         Park Ra E Med Service       0.0       0.0       5.0       5.0       5.0       30.0       5.5       21.1         Park B a Med Service       0.0       0.0       0.0       2.8       27.8       1.8       18.3       5.0       30.0       5.0						43.1	5.0	30.0	3.9	23.3	124.2
Virginia Ave & Acorn Drive         8.0         24.0         0.0         4.6         4.5.5         5.0         3.00         3.5         2.11           Park kd & EMU Science Center         0.0         0.0         5.0         50.0         1.6         1.59         5.0         30.0         3.5         2.11           Park kd & EMU Science Center         0.0         0.0         2.8         2.7.8         1.8         1.8.3         5.0         30.0         3.5         2.11           Wit Clinton Pk & College Ave         0.0         0.0         2.8         2.7.8         1.8         1.8.3         5.0         30.0 <t< td=""><td></td><td></td><td></td><td></td><td>~</td><td>29.8</td><td>5.0</td><td>30.0</td><td>5.6</td><td>33.9</td><td>121.5</td></t<>					~	29.8	5.0	30.0	5.6	33.9	121.5
Par Kt & EWU Science Center         0.0         0.0         5.0         5.0         1.0         3.5         2.1.1           Mt Clinton Fk & College Ave         0.0         0.0         2.8         27.8         1.8         1.8.3         5.0         30.0         5.			0			45.5	5.0	30.0	3.5	21.1	120.6
Mt Clinton Pk & College Ave         0.0         0.0         2.8         27.8         1.8         1.8.3         5.0         30.0         5.0         30.0           Vine St & Old Furnace Rd         0.0         0.0         0.0         0.0         3.9         39.4         5.0         30.0         5.3         31.6           Vine St & Old Furnace Rd         0.0         0.0         0.0         5.0         30.0         5.3         31.6           Frickson Ave at Bus Stopfor Garbers Crossing         0.0         0.0         5.0         30.0         5.3         31.6           Mt Clinton Pk & Arboretum Trail         0.0         0.0         0.0         0.0         3.0         30.0         5.0         30.0         5.0         30.0           Neff-ave & Arboretum Trail         0.0         0.0         0.0         0.0         3.0         3.0         3.0         5.0         30.0         5.0         30.0           Burges Rd Antrisonburg Crossing         0.0         0.0         0.0         0.0         3.0         3.0         5.0         30.0         5.0         30.0           Burges Rd Antrisonburg Crossing         0.0         0.0         0.0         3.0         5.0         30.0         5.0         <						15.9	5.0	30.0	3.5	21.1	117.0
Vine St & Old Furnace Rd         0.0         0.0         0.0         3.9         39.4         5.0         3.0         5.3         3.1.6           Frickson Ave at Bus Stop for Garbers Crossing         0.0         0.0         5.0         5.0         3.0         3.8         3.2.0         0.0         1.6         9.4           R Clintor Pk at Bus Stop for Garbers Crossing         0.0         0.0         0.0         0.0         1.9         3.0         0.0         1.6         9.4           M Clintor Pk & Arboretur Trail         0.0         0.0         0.0         0.0         3.0         3.0.0         5.0         30.0         <						18.3	5.0	30.0	5.0	30.0	106.0
Erickson Ave at Bus Stop for Garbers Crossing         0.0         0.0         5.0         3.8         3.8.2         0.0         1.6         9.4           Mt Clinton Pk & Chicago Ave         6.0         18.0         0.0         0.0         1.9         19.3         5.0         30.0         5.0         30.0           Neff Ave & Arboretum Trail         0.0         0.0         0.0         0.0         1.9         19.3         5.0         30.0         5.0         30.0           Burgess Rd & Harrisonburg Crossing         0.0         0.0         0.0         0.0         3.6         36.0         5.0         30.0         5.0         30.0           Burgess Rd & Harrisonburg Crossing         0.0         0.0         0.0         0.0         3.6         36.0         5.0         30.0         5.0         30.0           H Clinton Pk & Summit Ave         0.0         0.0         0.0         0.0         1.6         1.6         1.6         3.1         18.9						39.4	5.0	30.0	5.3	31.6	101.0
Mt Clinton Pk & Chicago Ave         6.0         18.0         0.0         0.0         19.3         5.0         30.0         5.0         30.0           Neff Ave & Arboretum Trail         0.0         0.0         0.0         0.0         3.0         3.0         5.0         30.0         6.1         36.6           Burgess Rd & Harrisonburg Crossing         0.0         0.0         0.0         0.0         3.6         36.0         5.0         30.0         5.1         36.6           Burgess Rd & Harrisonburg Crossing         0.0         0.0         0.0         0.0         3.6         36.0         5.0         30.0         5.0         30.0           Kl Clinton Pk & Summit Ave         0.0         0.0         0.0         0.0         1.6         16.2         0.0         3.1         18.9						38.2	0.0	0.0	1.6	9.4	97.6
Neff Ave & Arboretum Trail         0.0         0.0         0.0         0.0         3.0         3.0         5.0         6.1         3.6           Burgess Rd & Harrisonburg Crossing         0.0         0.0         0.0         0.0         3.6         3.0         5.0         30.0         5.0         30.0           Burgess Rd & Harrisonburg Crossing         0.0         0.0         0.0         0.0         3.6         36.0         5.0         30.0         5.0         30.0           M Clinton Pk & Summit Ave         0.0         0.0         0.0         0.0         1.6         16.2         0.0         3.1         18.9			_			19.3	5.0	30.0	5.0	30.0	97.3
Burgess Rd & Harrisonburg Crossing         0.0         0.0         0.0         0.0         3.6         3.0         5.0         3.0           Mt Clinton Pk & Summit Ave         0.0         0.0         0.0         0.0         1.6         16.2         0.0         3.1         18.9						30.0	5.0	30.0	6.1	36.6	96.6
M t Clinton PK & Summit Ave 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 3.1 18.9						36.0	5.0	30.0	5.0	30.0	96.0
						16.2	0.0	0.0	3.1	18.9	35.1

0       0	BIC	<b>BICYCLE SEGMENTS</b> - ActiveTrans Priority Rank	- Active Tran	s Priority F	Rank							
Early fad (Pleasent Valley, Ref to South City Linnes)         00         0.0         10.0         10.0           Endiversitation Net (Pleasent Valley, Ref to South City Linnes)         5.0         12.4         5.0         10.0         0.0           Endiversitation Net (Pleasent City Linnes)         5.0         12.4         5.0         0.0         0.0         0.0           Endiversitation Stro Reservations Stro Reservatind Rest Reservations Reservations Stro Reservations Str		<sub>אנשער וע</sub> ארג - <sub>אנסגפ</sub>	Stakeholder Input - weighted score	Constraints - score		Existing Conditions - score	Existing Conditions - weighted score	Connectivity - score	Connectivity - <sup>wei</sup> ghted score	Equity - score	equity - <sup>weighted score</sup>	Prioritization Score
Effection Merilsen Clurich Id De Fickison Ave Phase I)         71         214         5.0         5.00         10.0           Readers ST Mannes ST to Researci SA)         6.4         19.3         0.0         0.0         0.0         10.0           Res ST (Warfers ST to Enservin SA)         5.7         7.1         2.14         0.0         0.0         10.0           Maternan DP (Warfers ST to Chengo Ave)         7.1         2.14         0.0         0.0         10.0           Waternan DP (Warfers ST to Chengo Ave)         7.1         2.14         0.0         0.0         10.0           Maternan DP (Warfers ST to Chengo Ave)         7.1         2.14         0.0         0.0         10.0           Resonart ST (Warfers Are to Sanch Ly Stanch Chenge)         0.0         0.0         2.14         0.0         0.0         10.0           Resonart ST (Warfers ST to Nentric Ly (minits)         7.1         2.14         0.0		0.0				10.0	100.0	5.0	30.0	1.6	9.4	239.4
E Market SI (Mason St to Reservoir SI)         E Market SI         Col         CO         <		7.1		5.0		10.0	100.0	10.0	60.0	0.8	5.0	236.4
Res. St (Neff Ave C S)         Ed.         19.3         0.0         0.0         0.0           Mik (Mason St D Est Market S)         7.1         2.14         0.0         0.0         0.0           Waterman PC (Warket S)         7.1         2.14         0.0         0.0         0.0           Waterman PC (Warket S)         7.1         2.14         0.0         0.0         0.0           Waterman PC (Warket S)         7.1         2.14         0.0         0.0         0.0           Unserversity Bind (Carrier)         7.1         2.14         0.0         0.0         0.0           Steps of S(Wars S)         5.1         1.17         2.5         2.50         0.0           Figh (Ericison Are to Rockingham Square Shopping Center)         0.0         0.0         0.0         0.0         0.0           Figh S1 (Wars S) (Wars S)         5.0         1.00         0.0         0.0         0.0         0.0           Figh S1 (Wars S) (Wars S)         6.0         1.00         0.0         0.0         0.0         0.0           Figh S1 (Fight SD (Wars S)         6.0         1.00         0.0         0.0         0.0         0.0           Figh S1 (Fight SD (Wars S)         6.0         1.00         0.0 <td></td> <td>5.0</td> <td></td> <td></td> <td></td> <td>10.0</td> <td>100.0</td> <td>10.0</td> <td>60.0</td> <td>10.0</td> <td>60.0</td> <td>235.0</td>		5.0				10.0	100.0	10.0	60.0	10.0	60.0	235.0
MIX (Mason St D East Market St)         T1         T214         D10         D10           Waterman Market St)         Unwersty Blav (Grame Price Chicago Ave)         73         17.1         12.5         5.00         10.0           Waterman Market Stic Chicago Ave)         Unwersty Blav (Grame Price For Net Resond)         10.0         23.6         0.00         0.00         0.00           Reson St (Net Factor South Chy Limits)         23.6         0.00		6.4				10.0	100.0	10.0	60.0	9.2	55.0	234.3
Waternand Dr (W marker St)         St         17.1         2.5         2.50         100           University Bind (Carrier Dr to Endrate St)         7.9         2.4         0.0         0.0         100           Singh (Erciscon Are to Socingform Square Shopping Center)         7.9         2.4         0.0         0.0         100           Singh (Erciscon Are to Socingform Square Shopping Center)         0.0         0.0         2.5         2.50         100           Finds Stron Are to Socingform Square Shopping Center)         0.0         0.0         2.6         5.00         100           Finds Stron Are to Scassing Shopping Center)         0.0         0.0         2.5         2.50         100           Finds Stron Are to Scassing Shopping Center)         0.0         0.0         2.5         2.50         100           Finds Stron Are to Scassing Shopping Center)         0.0         0.0         2.5         2.50         100           Finds Stron Are to Scassing Shopping Center)         5.0         15.0         17.1         2.5         2.50         100           Revelore Strons         To Scassing Shopping Center)         5.0         17.1         2.5         2.50         100           Revelore Strons         To Scassing Stroptic Strons         5.7		7.1				10.0	100.0	10.0	60.0	8.1	48.3	229.7
Mean St Nue stry Bind (Earrier Dr. to Kuwket St)         7.9         23.6         0.0         0.0           Reservoir St Nue (Earrier Dr. to Kuwket St)         2.14         0.0         0.0         0.0         0.0         0.0           SHigh (Erristen Are to Scuth (FU) Limits)         2.14         0.0		5.7			0	10.0	100.0	10.0	60.0	3.5	21.1	223.2
Reservoir St (Neff Ave to South City Limits)         7.1         2.1.4         0.0         0.0         1.0           N Main St (Wast) St to Noth City Limits)         0.0         0.0         2.0         5.0         5.0         10.0           N Main St (Wast) St to Noth City Limits)         0.0         0.0         0.0         5.0         5.0         10.0           File Net City Limits D         Ercleson Ave (VCL to Garbers Crounch Ref)         0.0         0.0         5.0         5.0         10.0           File N St (Fickson Ave to Garbers Crossing Shopping Center)         0.0         0.0         0.0         5.0         10.0           File N St (Fickson Ave to Garber Counsing Shopping Center)         0.0         0.0         0.0         0.0         0.0         0.0         10.0           File N St (Fickson Ave to Garber St ore Name         0.0         0.0         0.0         0.0         0.0         10.0           File N St (Fickson Ave to Garber St ore Name         0.0         0.0         0.0         0.0         10.0           Mark St (Net St to Warket St)         0.0         0.0         0.0         0.0         0.0         0.0         10.0           Number St (Net St to Market St)         0.0         0.0         0.0         0.0         0.0		7.9				10.0	100.0	10.0	60.0	6.5	38.9	222.4
Shigh (Erickson Ave to Rockingham Square Shopping Center)         0.0         0.0         2.5         2.5.0         10.0           Findian S(uwars) to None S(t)         Envision Ave to Rockingham Square Shopping Center)         0.0         0.0         0.0         5.0         5.00         5.00         5.00         5.00         5.00         5.00         5.00         5.00         5.00         5.00         5.00         5.00         5.00         5.00         5.00         5.00         5.00         5.00         10.00           Findiason Ave (WCL to Garbers Crussing Shopping Center)         5.0         15.0         2.5         5.50         10.00         5.00         10.00           Fiely RF (Fickison Ave to Garbers Crussing Shopping Center)         5.0         15.0         2.5         5.50         10.00           Market SI (West City Limits to Market Stock         0.0         0.0         0.0         0.0         0.0         0.0         0.0         10.0           Market SI (West City Limits to Market Stock         0.0         0.0         0.0         0.0         0.0         10.0           Market SI (West City Limits to Market Stock         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0 <td></td> <td>7.1</td> <td></td> <td></td> <td></td> <td>10.0</td> <td>100.0</td> <td>10.0</td> <td>60.0</td> <td>6.5</td> <td>38.9</td> <td>220.3</td>		7.1				10.0	100.0	10.0	60.0	6.5	38.9	220.3
N Main St (Wash St to North City Limits)         N Main St (Wash St to North City Limits)         S0         S00         <		0.0				10.0	100.0	10.0	60.0	5.8	35.0	220.0
Erickson Ave (WCL to Garbers Church Rd)         Erickson Ave (Garbers Church Rd)         Erickson Ave (WCL to Garbers Church Rd)         Erick Church Church Church Church         Erick Church Chu		10.0	_			5.0	50.0	10.0	60.0	4.9	29.4	219.4
E Market St (Reservoir St to Vine St)         50         15.0         0.0         0.0         10.0           5 High St (Ficken Ave to Garbers Crossing Shopping Center)         5.0         15.0         2.5         25.0         10.0           6 High St (Ficken Ave to Garbers Crossing Shopping Center)         5.0         15.0         2.5         25.0         10.0           Greending Rd (entre length)         Evely nativet so         6.4         19.3         0.0         0.0         0.0         10.0         10.0           Mick extended (F Market to Country Club)         Mick extended (F         0.0 </td <td></td> <td>0.0</td> <td></td> <td></td> <td></td> <td></td> <td>100.0</td> <td>10.0</td> <td>60.0</td> <td>1.2</td> <td>7.2</td> <td>217.2</td>		0.0					100.0	10.0	60.0	1.2	7.2	217.2
S High St (Erickson Ave to Garbers Crossing Shopping Center)       0.0       0.0       2.5       2.5.0       10.0         Freendate Reference Instruction       6.4       1.3.0       0.0       0.0       0.0       10.0         Freendate Reference Instruction       5.0       1.5.0       2.5       2.5.0       10.0         Republic (Forest Hill to Bluestone Dr)       2.1       6.4       2.5       2.5.0       10.0         Port Republic (Forest Hill to Bluestone Dr)       2.1       6.4       2.5       2.5.0       10.0         Nulberty St (Renck St to W Market St)       2.7       17.1       7.5       7.5.0       0.0         Nulberty St (Renck St to W Market St)       5.7       17.1       7.5       7.5.0       0.0         Nulberty St (Renck St to W Market St)       5.7       17.1       7.5       7.5.0       0.0         Nulberty St (Renck St to W Market St to Mark		5.0					100.0	10.0	60.0	6.9	41.7	216.7
Greendale Rd (entire length)         5.0         15.0         25.0         20.0           Evelop Mark et St to E Market St)         Evelop Market St         5.0         19.3         0.0         0.0         10.0           Revenende (Farses st to E Market St)         Mix enterined (Farses st to E Market St)         5.0         10.0         0.0         10.0           Port Republic (Forest Hill to Bluestone Dr)         Nu Market St (West City Limits to Market Street         2.1         6.4         2.5         2.5.0         10.0           Nu Liberty St (Rock stow Warket St)         Nu Liberty St (Rock stow Warket St)         0.0         0.0         0.0         0.0         0.0         10.0           Nu Liberty St (Rock stow Warket St)         No Kettomed         5.7         17.1         2.5         25.0         10.0           Pear St (Erickson Ave to Pleasant Hill Road)         5.7         17.1         2.5         25.0         10.0           Pear St (Erickson Ave to Pleasant Hill Road)         5.7         17.1         2.5         5.0         0.0           Pear St (Erickson Ave to Pleasant Hill Road)         5.7         17.1         2.5         5.0         0.0           Pear St (Erickson Ave to Pleasant Hill Road)         5.7         17.1         2.5         5.0         0.0		0.0					100.0	10.0	60.0	5.1	30.5	215.5
Evelyn Byrd Ave (Res. St to E Market St)         Evelyn Byrd Ave (Res. St to E Market St)         Evelyn Byrd Ave (Res. St to E Market Steet         0.0         0.0         0.0         10.0           MLK extended (E Market to Country Club)         Port Reputic (Forest Hill to Bluestone Dr)         2.1         6.4         2.5         2.50         10.0           WILK extended (E Market Street         0.0         0.0         0.0         0.0         0.0         10.0           Wort Reputic (Forest Hill to Bluestone Dr)         Wilt Bret St (Rev St to W Market Street         0.0         0.0         0.0         0.0         10.0           N Liberty St (Harrisonbug City Limits to Mt Clinton Pike)         5.7         17.1         7.5         7.50         0.0		5.0					100.0	10.0	60.0	2.3	13.9	213.9
MLK extended (E Market to Country Club)         MLK extended (E Market to Country Club)         Dor Republic (Forest HII to Bluestone Dr)         Dor Republic (Forest HII to Bluestone Dr)         Dor         Dor <td></td> <td>6.4</td> <td></td> <td></td> <td></td> <td>10.0</td> <td>100.0</td> <td>10.0</td> <td>60.0</td> <td>5.4</td> <td>32.2</td> <td>211.5</td>		6.4				10.0	100.0	10.0	60.0	5.4	32.2	211.5
Port Republic (Forest Hill to Bluestone Dr)         2.1         6.4         2.5         2.5.0         10.0           W Market St (West City Limits to Market Street         0.0         0.0         0.0         0.0         0.0         10.0           N Libberty St (West City Limits to Market St)         5.7         17.1         7.5         7.5.0         10.0           N Libberty St (Rock St to W Market St)         5.7         17.1         7.5         7.5.0         10.0           N Libberty St (Rock St to W Market St)         5.7         17.1         7.5         7.5.0         10.0           Pleasant Valle Ref (runtry Club Rd to East City Limits)         5.7         17.1         7.5         7.5.0         10.0           Pleasant Valle Ref Nut St Country Club Rd to East City Limits)         5.7         17.1         5.0         5.0         0.0           Suber St Effickson Ave Pleasant HII Road)         5.7         17.1         5.0         5.0         0.0           Maryland Are (S High St to S Main St)         Peach Grove Ave (entire length)         5.7         17.1         0.0         0.0         5.0         5.0           Maryland Ave (S High St to S Main St)         Market St to North City Imits         5.7         17.1         0.0         0.0         0.0         0.0         <		5.0				10.0	100.0	10.0	60.0	3.6	21.7	196.7
W Market St (West City Limits to Market Street         0.0 <td></td> <td>2.1</td> <td></td> <td></td> <td></td> <td>10.0</td> <td>100.0</td> <td>5.0</td> <td>30.0</td> <td>5.3</td> <td>31.7</td> <td>193.1</td>		2.1				10.0	100.0	5.0	30.0	5.3	31.7	193.1
N Liberty St (Harrisonburg City Limit to Mt Clinton Pike)         5.0         15.0         0.0         0.0           N Liberty St (Rock st to W Market St)         5.7         17.1         7.5         75.0         0.0           N Liberty St (Rock st to W Market St)         5.7         17.1         7.5         75.0         0.0           Pleasant Valler (entrie length)         5.7         17.1         2.5         25.0         10.0           Pleasant Valler St (wet Market to MLK)         5.0         15.0         2.5         5.0         0.0           Pear St (Erickson Ave to Pleasant Hill Road)         5.7         17.1         2.5         25.0         0.0           Naryband Ave (S High St to S Main St)         5.7         17.1         2.0         0.0         0.0         5.0           Naryband Ave (S High St to S Main St)         5.7         17.1         0.0         0.0         0.0         5.0         5.0           Naryband Ave (S High St to S Main St)         St to North City Limits)         5.7         17.1         0.0         0.0         0.0         0.0         0.0         5.0         5.0           Naryband Ave (S High St to S Main St to North City Limits)         St to North City Limits)         5.7         17.1         0.0         0.0         0.0 </td <td></td> <td>0.0</td> <td></td> <td></td> <td></td> <td>10.0</td> <td>100.0</td> <td>10.0</td> <td>60.0</td> <td>5.4</td> <td>32.2</td> <td>192.2</td>		0.0				10.0	100.0	10.0	60.0	5.4	32.2	192.2
N Liberty St (Rock St to W Market St)         N Liberty St (Rock St to W Market St)         5.7         17.1         7.5         7.5.0         0.0           Receletowing (Country Club Atto East City Limits)         5.7         17.1         2.5         2.5.0         10.0           Peasant Hill Road)         5.7         17.1         2.5         2.5.0         10.0           Peasa St (Fickson Ave to Pleasant Hill Road)         5.7         17.1         2.5         25.0         0.0           Para St (Fickson Ave to Pleasant Hill Road)         5.7         17.1         2.5         25.0         0.0           Naryland Ave (5 High St to S Main St)         5.7         17.1         5.0         0.0         0.0         5.0         5.0           Naryland Ave (5 High St to S Main St)         5.7         17.1         0.0         0.0         0.0         5.0         5.0           Naryland Ave (5 High St to S Main St)         Site St to S Main St to North City Limits)         5.7         17.1         0.0         0.0         0.0         5.0         5.0           Narchbaard Rd (W Lit Cintro Pleate D Grove Ave to east of Squire Hill)         5.0         17.1         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0 <td></td> <td>5.0</td> <td></td> <td></td> <td></td> <td>10.0</td> <td>100.0</td> <td>10.0</td> <td>60.0</td> <td>2.0</td> <td>12.2</td> <td>187.2</td>		5.0				10.0	100.0	10.0	60.0	2.0	12.2	187.2
Keezletown Kd (Country Club Rd to East City Limits)         5.0         15.0         2.5         2.5         2.5.0         10.0           Pleasant Valley Kd (entire length)         5.7         17.1         2.5         2.5.0         10.0           Pera Stelf Cover Ave (entire length)         5.7         17.1         2.5         2.5.0         5.0         0.0           Peach Grove Ave (entire length)         5.7         17.1         2.0         0.0         5.0		5.7				0.0	0.0	10.0	60.0	5.1	30.5	182.7
Pleasant Valley Rd (entire length)       57       17.1       2.5       25.0       10.0         Plear St (Erickson Anketo Pleasant Hill Road)       5.7       17.1       5.0       5.0       0.0         Suber St (Erickson Market De Resamt Hill Road)       5.7       17.1       5.0       5.0       0.0         Peach Grove Ave (entrire length)       5.7       17.1       0.0       0.0       5.0         Maryland Ave (S High St to S Main St)       5.7       17.1       0.0       0.0       5.0         Switchboard Rd (W Market St to North City Limits)       5.7       17.1       0.0       0.0       5.0         Switchboard Rd (W Market St to North City Limits)       5.7       17.1       0.0       0.0       0.0       5.0         Onton Invice       5.7       17.1       0.0       0.0       0.0       5.0       5.0         Maryland Ave (S High St to S Main St (M Market St to North City Limits to Chicago Ave/Park Rd)       5.0       15.0       0.0       0.0       0.0       0.0         Mason St (N Main St to MLK)       Mason St (N Main St to MLK)       6.4       19.3       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0		5.0				10.0	100.0	5.0	30.0	2.0	12.2	182.2
Pear St (Fickson Ave to Pleasant Hill Road)       5.0       15.0       2.5       2.5       5.0       5.0         S Liberty St (West Market to MLK)       5.7       17.1       5.0       5.0       0.0       5.0         S Liberty St (West Market to MLK)       5.7       17.1       0.0       0.0       5.0		5.7				10.0	100.0	5.0	30.0	1.6	9.4	181.6
S Liberty St (West Market to MIK)       5.7       17.1       5.0       5.00       0.0         Paraylan Grove Ave (entire length)       5.7       17.1       0.0       0.0       5.0         Parayland Xee (Stric North City Limits)       5.7       17.1       0.0       0.0       5.0         Switchboard Ra (W Market St to North City Limits)       5.7       17.1       0.0       0.0       5.0         Switchboard Ra (W Market St to North City Limits)       5.0       15.0       0.0       0.0       5.0         Chicago Ave (Mr. Clinton Pike to Rock. Dr)       Switchboard Eq (W Market St to North City Limits)       5.0       15.0       0.0       0.0       5.0         Devon Ln/Lois Ln (Peach Grove Ave to east of Squire Hill)       5.0       15.0       0.0       0.0       5.0       5.0         Mason St (N Main St to Mult)       Devor Ln/Lois Ln (Peach Grove Ave to east of Squire Hill)       5.0       15.0       0.0		5.0				5.0	50.0	10.0	60.0	4.7	28.3	178.3
Peach Grove Ave (entire length)         5.7         17.1         0.0         0.0         5.0           Maryland Ave (S High St to S Main St)         5.7         17.1         0.0         0.0         5.0           Maryland Ave (S High St to S Main St)         5.7         17.1         0.0         0.0         5.0           Natryland Ave (S High St to S Main St)         5.7         17.1         0.0         0.0         5.0           Chicago bare (Mt C lintron Pike to Rock. Dr)         8.6         25.7         0.0         0.0         5.0           Devon Ln/Lois Ln (Peach Grove Ave to east of Squire Hill)         5.0         15.0         0.0         0.0         5.0           Mason St (N Main St to ML)         Devor Ln/Lois Ln (Peach Grove Ave to east of Squire Hill)         5.0         15.0         0.0         0.0         0.0         5.0           Mason St (N Main St to ML)         Mason St (M Main St to ML)         6.4         19.3         0.0		5.7				0.0	0.0	10.0	60.0	7.1	42.8	169.9
Maryland Ave (5 High St to S Main St)         5.7         17.1         0.0         0.0         5.0           Switchboard Rd (W Market St North City Limits)         Soin Extended         15.0         0.0         0.0         10.0         10.0           Switchboard Rd (W Market St North City Limits)         Soin Extended         15.0         0.0         0.0         10.0         5.0           Devoid Linits in Fleach Grow Ave to east of Squire Hill)         S.0         15.0         0.0         0.0         5.0           Mason St (N Main St to MLK)         Mason St (N Main St to MLK)         6.4         19.3         0.0         <		5.7				5.0	50.0	10.0	60.0	6.5	38.9	166.0
Switchboard Rd (W Market St to North, City Limits)         5.0         15.0         0.0         0.0         10.0           Chicago Ave (Mr. Clinton Pike to Rock. Dr)         Chicago Ave (Mr. Clinton Pike to Rock. Dr)         8.6         25.7         0.0         0.0         5.0           Maevon Ln/Lois Ln (Peach Grove Ave to east of Squire Hill)         5.0         15.0         0.0         0.0         5.0           Maevon Ln/Lois Ln (Peach Grove Ave to east of Squire Hill)         6.4         19.3         0.0         0.0         0.0           Maevon Ln/Lois Ln (Peach Grove Ave to east of Squire Hill)         5.0         0.0         0.0         0.0         0.0           Marcon St (Wale St to Main St to Chicago Ave/Park Rd)         N.         5.0         15.0         0.0		5.7				5.0	50.0	10.0	60.0	6.5	38.9	166.0
Chicago Ave (Mt. Clinton Pike to Rock. Dr)         Even         B.6         25.7         0.0         0.0         5.0           Devon In/Lois Un (Peach Grove Ave to east of Squire Hill)         Devon In/Lois Un (Peach Grove Ave to east of Squire Hill)         5.0         15.0         0.0         0.0         5.0           Mason St (N Main St to MILK)         6.4         19.3         0.0		5.0				10.0	100.0	5.0	30.0	3.1	18.9	163.9
Devon Ln/Lois Ln (Peach Grove Ave to east of Squire Hill)         5.0         15.0         0.0         0.0         5.0           Mason St (N Main St to MLK)         Mason St (N Main St to MLK)         6.4         19.3         0.0		8.6				5.0	50.0	10.0	60.0	4.6	27.8	163.5
Mason St (N Main St to MLK)         6.4         19.3         0.0         0.0         0.0           Mt Clinton (Weet St Div Junits to Chicago Ave/Park Rd)         0.0		5.0				5.0	50.0	10.0	60.0	4.2	25.0	150.0
Mt Clinton (West City Limits to Chicago Ave/Park Rd)         0.0         0.0         0.0         0.0         5.0           N Main St (Wolfe St to Gay St)         Nain St (Wolfe St to Gay St)         5.0         15.0         0.0		6.4				0.0	0.0	10.0	60.0	10.0	60.0	139.3
N Main St (Wolfe St to Gay St)         5.0         15.0         0.0         0.0         0.0           Pleasant Hill Rd (entire length)         6.4         19.3         0.0         0.0         0.0           W Grace St (S High St to S Main St)         6.4         19.3         0.0         0.0         0.0           S Main St (MLK to Campbell St)         5.0         15.0         0.0         0.0         0.0		0.0				5.0	50.0	10.0	60.0	4.6	27.8	137.8
Pleasant Hill Rd (entire length)         6.4         19.3         0.0         0.0         0.0           W Grace St (S High St to S Main St)         6.4         19.3         0.0         0.0         0.0           S Main St (MLK to Campbell St)         5.0         15.0         0.0         0.0         0.0		5.0				0.0	0.0	10.0	60.0	8.9	53.3	128.3
W Grace St (S High St to S Main St)         6.4         19.3         0.0         0.0         0.0         State         S		6.4				0.0	0.0	10.0	60.0	6.2	37.2	116.5
S Main St (MLK to Campbell St) 5.0 15.0 0.0 0.0 0.0		6.4				0.0	0.0	10.0	60.0	6.1	36.6	115.9
		5.0	_			0.0	0.0	10.0	60.0	6.3	37.8	112.8
Gay St (Chicago Ave to Broad St) 0.0 0.0 0.0 0.0 0.0		0.0				0.0	0.0	10.0	60.0	8.1	48.9	108.9
E Wash St (N min St to Vine St) 5.0 15.0 0.0 0.0		5.0				0.0	0.0	10.0	60.0	5.6	33.9	108.9
0.0 0.0		5.0				0.0	0.0	10.0	60.0	3.1	18.3	93.3

S	SHARED USE PATHS - ActiveTrans Priority Bank	s - ActiveTrai	ns Priority F	ank							
D.COTION	Stakeholder Input - score	Stakeholder Input - weighted score	Constraints - <sup>sc</sup> ore	ciented score	Existing Conditions - score	Existing Condițions - weighted score	Connectivity - score	Connectivity - weighted score	equity - score	Equity - Weighted score	Prioritization Score
SU-1 Norfolk Southern Rail Line	5.4		2.8			0.3	10.0	60.0	9.2	55.0	229.3
SU-2 Trail Connection: Walnut Ln-MLK Jr Way	0.2	0.6		77.8		58.8	3.3	20.0	6.4	38.3	195.5
SU-3 Bluestone Trl/Northend Greenway/Mt Clinton Pk: Park Rd-Virginia Ave	10.0	30.0					10.0	60.0	6.5	38.9	187.9
	7.4	22.2					10.0	60.0	9.6	57.8	185.4
	7.4	22.2					10.0	60.0	7.5	45.0	182.7
SU-6 Market St: ELL-University Bivd	1.6	4.8		0.0	1.8		10.0	0.09	7.5	34.4	180./ 190 E
	0.0	24.U				00.0 53 5	0.UL	0.00	0.4 A R	37.7	176.3
	10	17.4					10.0	0.04	11	77.6	175.2
	5.2	15.6	5.0				6.7	40.0	3.8	22.8	167.3
	0.2	0.6					6.7	40.0	7.2	43.3	163.5
SU-12 Bluestone Trail/Northend Greenway: JMU (MLK Jr Way-Port Republic Rd)	5.4	16.2		0.0	4.7 4		10.0	60.0	6.7	40.0	162.9
	8.4	25.2					6.7	40.0	6.1	36.6	160.1
	0.2	0.6		50.0			6.7	40.0	2.7	16.1	160.0
	6.4	19.2					6.7	40.0	2.7	16.1	155.4
SU-16 Trail Connection: Devon Ln-Hunters Rd Sti Latz Mar Clinton Bk-Virminia Ave. N Main St	0.4 6.6	1.2	2.0	20.0		39.0 61 a	6.7	40.0	3.8	30.0	152.9
	5.2	15.6			3.0		6.7	40.0	2.7	16.1	151.3
	5.6	16.8					10.0	60.0	3.4	20.5	150.7
SU-20 Trail Connection: Neff Ave-Arboretum Trail-University Blvd	0.2	0.6					3.3	20.0	1.9	11.7	149.7
	0.2	0.6		27.8	3.9		6.7	40.0	6.8	40.5	147.7
	0.2	0.6					6.7	40.0	6.8	41.1	147.7
50-23 Trail Connection: Warsaw Ave-Ono Ave/ New Tork Ave SI I-24 Trail Connection: South Ave- Keister FS	0.7	1.2		27.8 27.8	3.3	32.0	6.7	40.0	0.7	28 q	14/.1
	5.4	16.2					6.7	40.0	3.1	18.9	139.3
	6.0	18.0					6.7	40.0	2.0	12.2	138.4
	0.4	1.2		50.0		29.6	6.7	40.0	2.7	16.1	136.9
	0.2	0.6			4.1		6.7	40.0	4.6	27.8	136.8
	0.2	0.6					6.7	40.0	2.7	16.1 222	136.3
SU-30 W Market St: Dogwood Dr-Westover Park Entrance	0.2	0.6		0.0	0.4	64.1 20.5	6.7	40.0	5.0	30.0	134.7
50-51 Itali Connection: Munuels ND-NOKINGIan Hall (JJNO) S11-37 Trail Connection: Mondleich Ct Terminus-Mt Clinton Pk	0.2	0.0					5.5	0.02	5.6 5.6	33.0	131.9
	9.0 9	18.0		0.02			6.7	40.0	0.0	305	130.1
	7.2	21.6					6.7	40.0	2.7	16.1	127.9
	5.6	16.8					6.7	40.0	2.7	16.1	124.6
SU-36 N Liberty St: Edom Rd-Acordn Dr	0.0	0.0					6.7	40.0	5.7	34.4	117.7
SU-37 Trail Connection: S Dogwood Dr-Rocktown Trails/hillandale Park	0.2	0.6			3.1	30.8	3.3	20.0	2.7	16.1	117.5
	0.4	1.2					3.3	20.0	2.7	16.1	116.9
	5.4	16.2		27.8	3.0	29.6	3.3	20.0	2.7	16.1	109.7
	5.4	16.2		0.0	3.0	9	3.3	20.0	6.1	36.6	102.5
50-41 I rail Connection: Bluestone Irail-Kamolewood Parky Greendale No 511-42 Trail Connection(Cale Trail)-Westover Park-THMS	0.4 6 0	18.0 18.0		0.U 27.8	1.6	31.3	6.7	40.0	4.9	29.4 16.1	6 TOT
	0.2	0.6		0.0	0.0	30.4	3.3	20.0	4.8	28.9	79.9
	4.0	2			2			20.2	2	70.7	