

Walking the talk: Creating a regional action agenda

UVA MPC

12/13/07

Harrison B. Rue



**Thomas Jefferson Planning District Commission
Charlottesville-Albemarle Metropolitan Planning Organization**

TJPCDC's regional strategy

- **Scenario planning (regional & corridor)**
- **UnJAM 2025 Plan (MPO & Rural areas)**
- **Multimodal corridor plans (Places29)**
 - **Transit Ready Development**
 - **Regional Transit Authority**
 - **NWFL (3-county corridor scenario plan)**
- **Age-Friendly Communities**
- **Strategic Multimodal Investment**

Representative sample of TJPC's continuing efforts in each program area

Community Participation

Local Governments

Transportation

* Metropolitan Planning Organization

UnJAM 2025
29H250 Project
Hillsdale Traffic Safety Study

Rural Transportation

UnJAM 2025
Nellysford Safety Study
Scottsville Road Design

Bike & Walk

Bike, Pedestrian &
Greenways Plans
Walkability Workshops

RideShare

Carpool Matching
Guaranteed Ride Home
Park & Ride Lots
SchoolPool
Commuter Information
Team

Community Planning

County Comprehensive Plans
Design Manual For Small Towns
Eastern Planning Initiative
Charlottesville Consolidated Plan
Community Planning Assistance

Legislative Liaison

Legislative Newsletter
Legislative Program
Final Legislative Report

Communication & Participation

Website www.tjpc.org
eNews
Hands-on Public
Workshops
Training Workshops
Conferences

Data & Mapping

Mapping & Graphic Services
Regional Facts
Weldon Cooper Statistics
Sample Maps
US Census Data

Housing & Human Services

HOME Consortium
Housing Directors Council
Mixed Use Conference
Homeless MIS
Homeless Services Support

* Disability Services Board

Disability Etiquette Training
Needs Assessment
Universal Design Library
Guide to Services
Employer of the Year Award

Environment

Moore's Creek TMDL Project
Rivanna River Basin Project
Regional Solid Waste Management Plan
Darden Tower Kiosk

Workforce & Economic Development

* Local Workforce Investment Board

One-Stop System
Employer Services
Job Seeker Services
MetroTech
Youth Programs
Regional Economic Development Plan
Thomas Jefferson Venture

* Denotes separate Board
staffed by TJPC

Assumptions (it's all in there):

- **Regional Sustainability Accords**
 - **Green building & infrastructure, etc.**
- **Hands - on public participation**
- **Interagency project teams**
- **Coordination of plans & projects**
 - **Across jurisdictions & agencies**
 - **Include multiple programs & funding**
- **Plans incorporate Action Agendas**

Effective public process

- Identify community values
- Combine programs & problems
- Bring everyone to the table
- Use process to educate, train, and introduce innovative solutions
- Develop scenarios to test all issues
- Use science to model the visions
- Incorporate preferred scenario into project programming and funding

Bring everyone to the table



Regional Scenario Planning:

**Linking land use,
transportation,
economy &
environment**



Sustainability Accords:

Regional values

- Encourage and maintain strong ties between the region's urban and rural areas
- Strive for a size and distribute the human population in ways that preserve vital resources
- Retain the natural habitat
- Ensure water quality and quantity are sufficient to support people and ecosystems
- Optimize the use and re-use of developed land and promote clustering
- Promote appropriate scale for land uses
- Retain farm and forest land
- Develop attractive and economical transportation alternatives
- Conserve energy
- Provide educational and employment opportunities
- Increase individual participation in neighborhoods and communities

\$1 billion

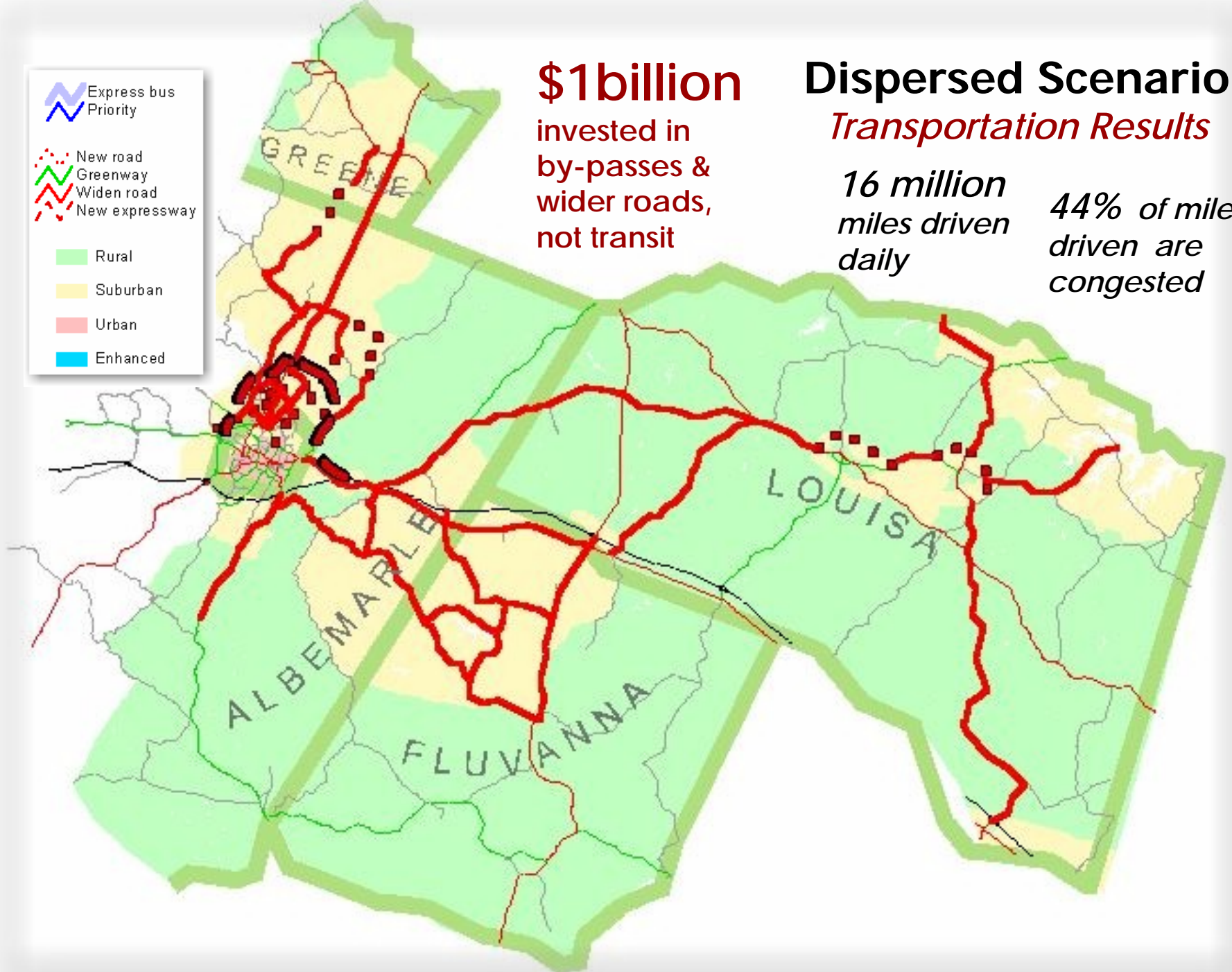
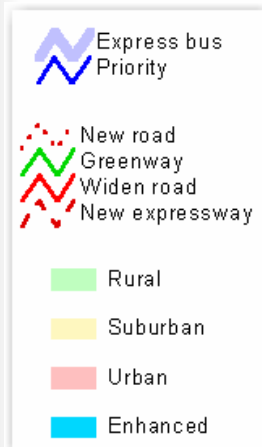
invested in
by-passes &
wider roads,
not transit

Dispersed Scenario

Transportation Results

*16 million
miles driven
daily*

*44% of miles
driven are
congested*



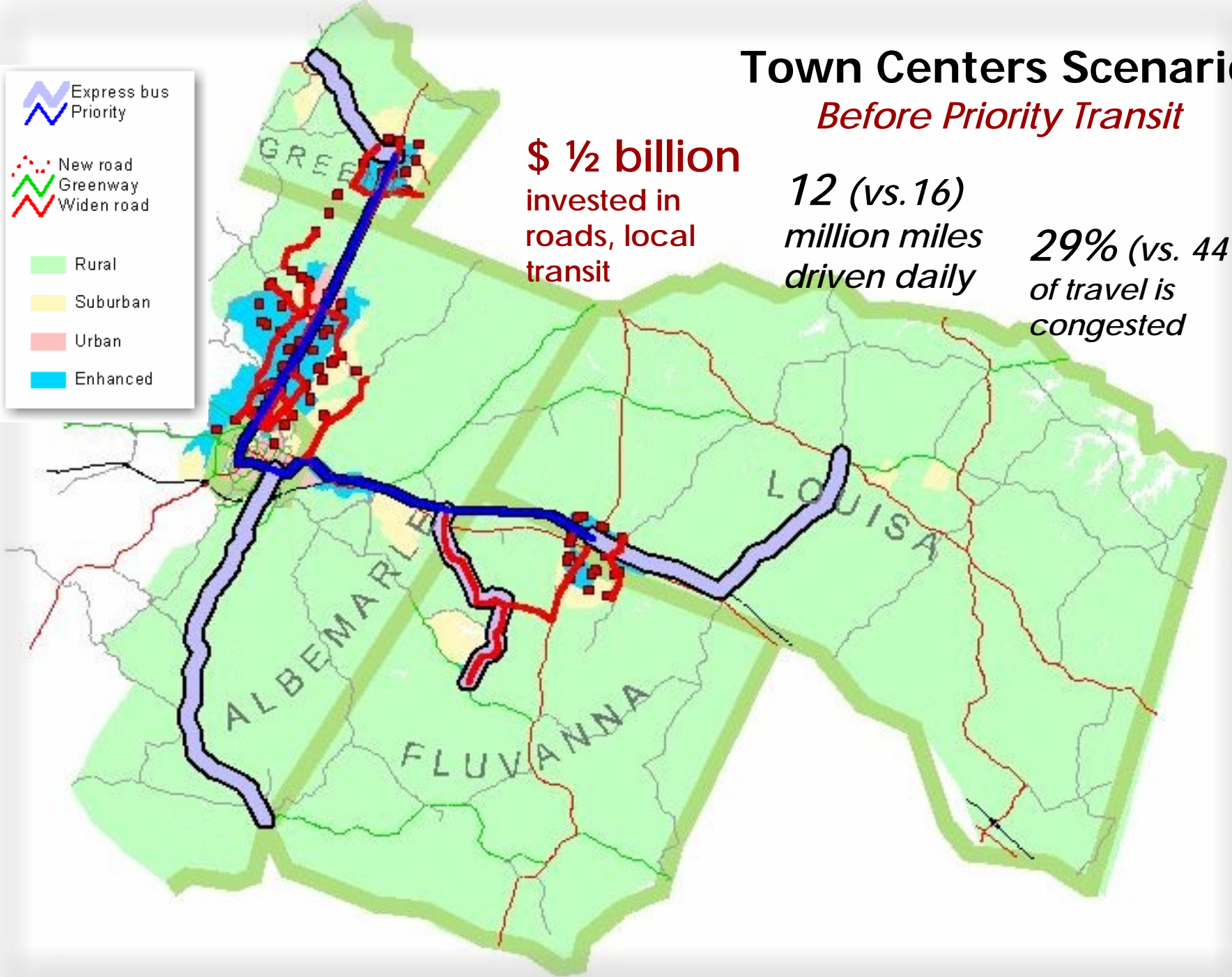
Town Centers Scenario

Before Priority Transit

\$ ½ billion
invested in
roads, local
transit

12 (vs. 16)
*million miles
driven daily*

29% (vs. 44%)
*of travel is
congested*



Boulevard Design Characteristics

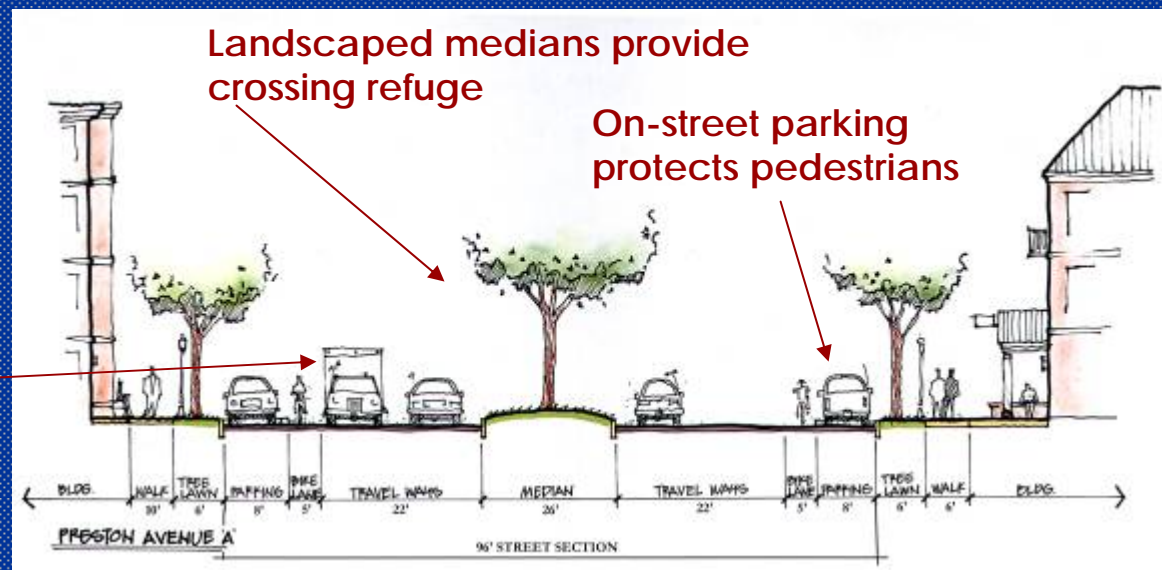
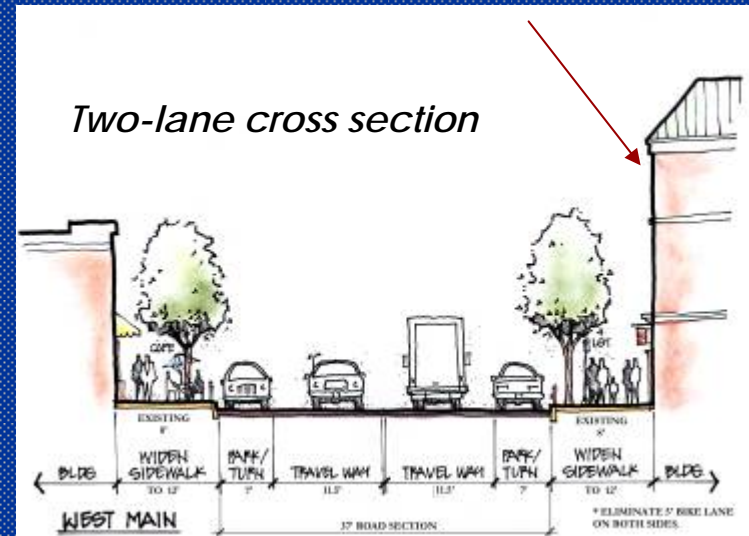
"People Friendly Streets"



Streetscape

Bus amenities include shelters and by-pass lanes

Buildings brought to street for enclosure / interest



Four-lane cross section

How the Regional Scenarios Compare

All scenarios assume @ 330,000 population and 220,000 employment

Measure / Sustainability Accord	Disp- ersed	Town Ctr	CoreL	CoreM
Pct. Farms and Forests Retain resources/habitat/farms/forests	<i>55</i>	64	65	65
Pct. Developed Retain resources/habitat/farms/forests	<i>45</i>	36	35	35
Pct. Living In Clustered Communities Optimize use/cluster/human scale	<i>13</i>	61	68	68
Pct. Non -auto Trips Transportation Alternatives	<i>4</i>	15	18	18
Annual Gallons Gas Consumed (billions) Conserve Energy	<i>155</i>	121	110	114
Pct. Travel Congested Employment / Education Access	<i>44</i>	27	20	21
Water Quality and Quantity Water Quality and Quantity	<i>Poor</i>	Good	Good	Good
<i>Red/italics– Comparatively worst</i>				



United Jefferson Area Mobility Plan



What is *UnJAM* 2025?

United Jefferson Area Mobility Plan

- TJ Rural Area Transportation Plan
- Charlottesville-Albemarle Regional Transportation Plan Update (CHART 2025) - by the MPO
- **Identifies & prioritizes regional transportation needs**
- **Provides data on costs, benefits & impacts**
- **Coordinated with land use & development plans**
- **All major projects must be in the Plan to get funded**
- **Must be updated every 5 years**



UnJAM workshops

Public workshops

Focus groups

Steering Committee



Round 2 WorkBooks

Discuss & mark-up page by page together

Blueprint-sized group workbook

This Workbook is based on your ideas from the UCIAM Round 1 workshops. The MPO Citizens' - or C1 Committee has been reviewing and expanding on these ideas, and working with staff to develop the UCIAM 2025 Plan. Your input tonight will help to refine and prioritize these concepts.

An suburban development has spread outward from Charlottesville over the past fifty years, the transport infrastructure has not kept up with either the pace of development - or with the needs of the families and businesses who made the move. The UCIAM Plan's focus is on completing the system, improving safety a mobility of all modes, and making the best use of our existing roadway investments.

Pedestrian Friendly Streets and Highways

Complete and connect sidewalk system
Safe, usable crosswalks with pedestrian refuges
Better lighting, signage, landscaping and signals

Complete Bicycle Network and Amenities

On-road bike lanes on urban streets
Off-road multi-purpose trails along major corridors
Protected parking at all destinations

Efficient Transit System integrated with other travel modes

Bus Rapid Transit (BRT) for fast, frequent service on major corridor
Commuter Express service to outlying areas
System improvements for downtown and neighborhoods
Technology implementation to maximize efficiency and convenience

Improved, Expanded Roadway Network

More complete network of parallel and connector roads
Re-engineer existing major roads for increased capacity, safety, and enhanced business environment
Develop new roadway designs for balanced, multi-modal performance

Safe & Efficient Freight Movement

Separate freight movements from passenger travel where possible
Support on-time delivery needs of business and industry

Policy and Regulatory Changes

Amend codes and standards to encourage more flexible roadway and development designs
Adjust funding formulas to deliver a truly multi-modal system
Expand modeling and forecasting capabilities to coordinate transportation and land use planning

Re-Engineering Roadways

We can stretch limited transportation funding by making better use of existing roadways. New intersection and corridor designs can improve safety, capacity, and convenience - while stimulating economic development. Since most congestion is caused by signals at intersections, it is more cost-effective and easier to fix the intersections than to widen the entire road.

Meadow Creek Parkway was originally designed as a wider, higher-speed road. Both City and County sections were redesigned as a 2-lane, lower-speed parkway with multi-purpose trails. Grade-separations and/or roundabouts at intersections like Rt. 250 & Millstone would keep traffic flowing freely while improving pedestrian and bicycle connections to the park.

- Should FDOT roadway standards be changed to allow these kinds of designs from the start?
- Meadow Creek from 250 to Rt. 2 is programmed for conversion. Should Phase 2 north of Rt. 2 be a priority?

Route 250/Hydrus/250 The Rt. 250-250 corridor can work much more efficiently for both local and through traffic by re-engineering key intersections like Hydrus, Greendier, Kio, and Airport Rd. If coupled with parallel roads, better connections through shopping centers, and priority transit, roadway capacity could be increased.



Should the Hydrus/250 and Hydrus/Hydrus intersections be included in the study?

- Should workable alternative designs be developed for the Hydrus/250 area instead of widening for more travel lanes?
- How can we best consider the needs of area business and property owners?

Roundabouts were a popular Round 1 round for dramatically improved safety and bike crossings, and increased capacity the new Airport intersection, with center Hydrus Drive and Rt. 250 in Scottsville.



Roundabouts drive down the cost of other approaches and create a safer corridor for motorists. What kind of education & programing alert drivers to newly installed?

- What other locations should be a priority (see map next page)?

Landscaping in the islands is needed work. Who should be responsible?

Hydrus Drive Traffic Safety IABA, businesses and residents worked with VDOT to develop age-friendly pedestrian improvements along Hydrus Drive. The improvements would better link residents with services, shopping, and transit, and improve connections to the Rivanna Greenway.



Should the median crosswalks help seniors and kids to cross the road more safely?

- Should making streets age-friendly receive more priority in roadway design?
- What other major streets need attention?



Safe Pedestrian Environment

Freight

New Roads

There are several proposed new roadways, many of which have been in the Long-Range Transportation Plan for years, and others that are new ideas. Some of the older identified routes could also be a modified design along the lines of those discussed on the previous page.

Southern Connector: A connector between expanding southern neighborhoods would allow residents to connect and access services without clogging City streets. Three potential routes have been identified: roads 1st from Avenue Street to 1st St, 1st from 1st from Avenue to 1st, using Southern Parkway near Mill Creek, and possibly 1st from Route 250 to Old Lynchburg Road. In either case, the road could be a lower-speed neighborhood street or parkway.

- Which route should be developed first and why?
- What kind of design should be used?

Eastern Connector: Several potential routes have been identified to connect southern neighborhoods to centers, and move traffic from 250 to 250 East or 1st without clogging downtown. Ideas include: close-in short connectors running from 250 to Rt. 250, neighborhood streets connected through subdivisions north of 250, new routes from Rt. 250 to Rt. 250 Road near Pine Park or above Key West, a new road from 250 to Pine Grove, or improvements from 250 to Profit Rd. Many options could lead to the Meadow Creek Parkway.

- Is it better to make the connections close or farther out?
- What are the advantages and obstacles in each case?
- Which options should be a priority?

North Grounds Connector: This connector would run from Rt. 250 to UVA. It could connect to the new parkway (see discussion above) with a much lower-speed grade-separated interchange. One option being explored would have a roundabout at each end, to keep traffic moving smoothly while permitting bike and pedestrian crossings. The connector is recommended as a 3-lane roadway.

- Should the North Grounds Connector be allowed to connect to 250 at grade, or be required to have a right grade-separated interchange?
- What are the advantages and obstacles in each case?

Western Bypass: This long-studied and controversial roadway alignment is currently on hold while alternatives are being explored. One alternative that has been suggested would consider a lower-speed 2-lane connector road on parts of the Bypass alignment, possibly from Rt. 250/North Grounds Connector to Hydrus. This new road could be designed as a parkway with separate multi-purpose trail, and may exclude large trucks.

- Should the parkway concept be explored?
- If so, what kinds of issues should be considered?
- How far should a connector go, what roads should it connect to?

Hydrus Drive Extension: Funding is programmed for an extension of Hydrus Drive from Greenway to Hydrus. The old alignment went behind the Senior Center and Shopping center, very close to the creek. An alignment along Pope Plaza through Seminole Square parking lot is being considered. Though this would cut through an existing building, it would create an opportunity for additional "sensational" development of the property.



- Hydrus after:
 - Would this kind of walkable development be an advantage for nearby neighborhoods?
 - Would it provide a more direct bus route, with greater customer access?
 - What other locations could use these ideas?

Subdivision & Neighborhood Connectors: Residents of many existing neighborhoods have asked for better connections to adjacent neighborhoods and services, without having to make long detours or use major highways. The "V" shaped connector of West Main is a good example. Suggestions include Forest Lakes/Hollymead, Dementons mill to Jefferson School, Biscuit Run (Mill Creek Lake Bayview), Sunset Avenue, Commonwealth Run, and the Potomac area.

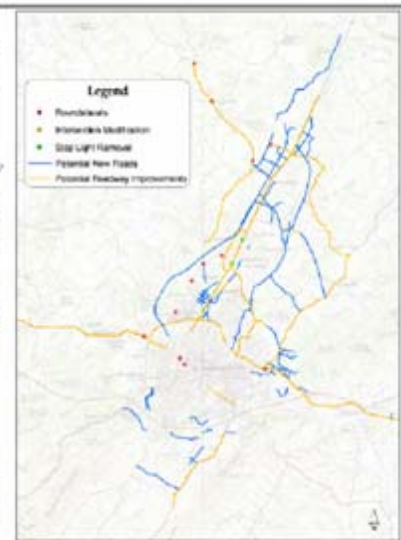


Neighborhood Connector 10th / 10th St. C connector

to encourage redevelopment, new roadway designs can move people and goods without dividing neighborhoods.



- 5th Street Extended
 - What kinds of designs are appropriate for roads like Fountains, Ivy, Georgetown, Airport, Monticello, and 250 East?
 - Could West Main between downtown and UVA be redesigned to improve walking, biking, and transit service?
 - With more convenient off-street parking, peak hour lane priority, and technology, could transit operate faster?



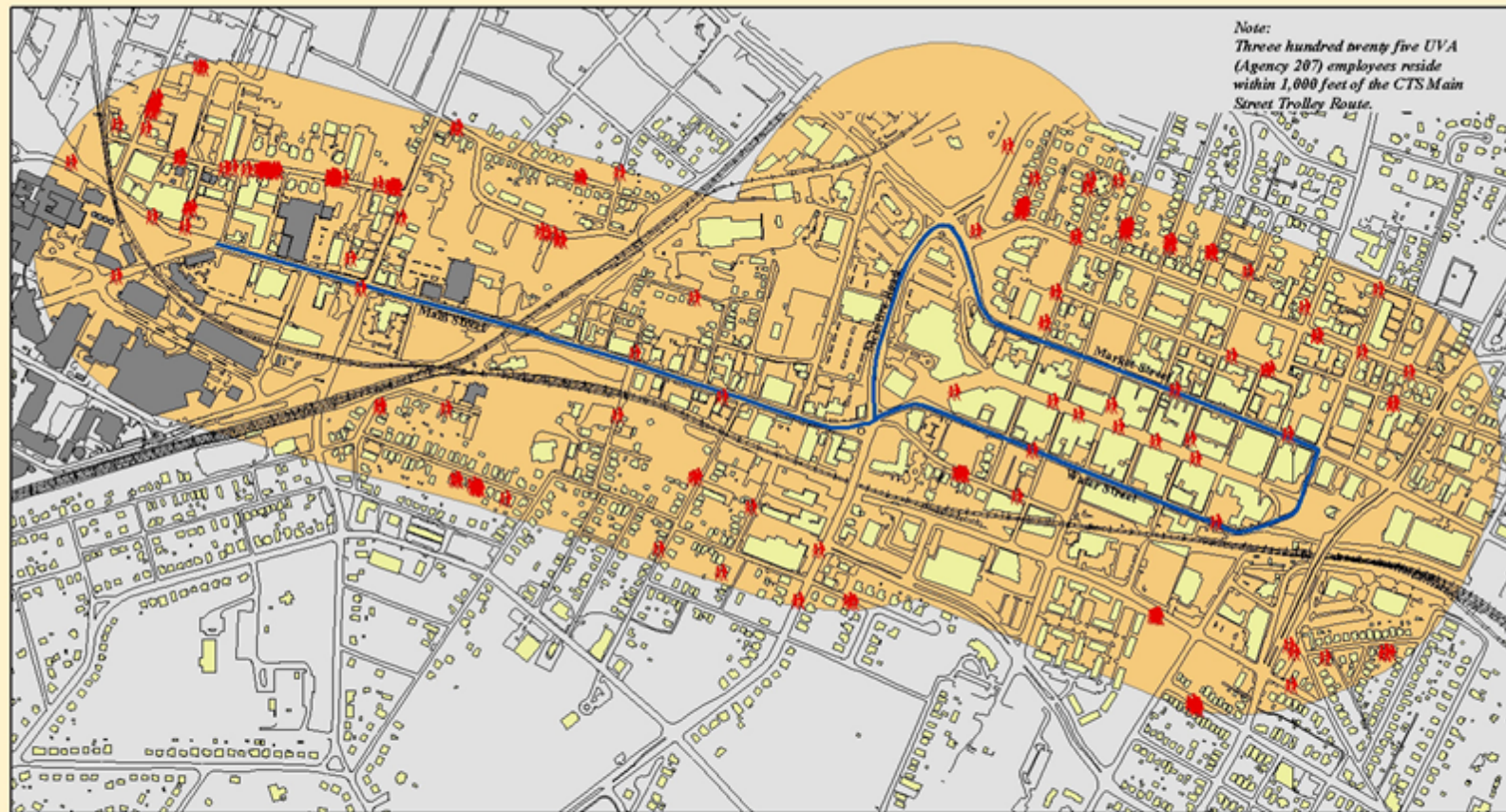
Potential New Roads and Roadway/Intersection Improvements

UnJAM 2025 Plan Priorities

- ❑ **Completion of a well-connected network of roadways parallel to major highways;** with better connections within and between neighborhoods,
- ❑ **Re-engineered intersections and corridors,** with capacity improvements, to improve efficiency and safety,
- ❑ **Fast, frequent, dependable transit** service with seamless connections throughout the region,
- ❑ **A terrain-modified grid of smaller streets** serving more compact development
- ❑ **Well-executed design details** for pedestrian-friendly streets, bike lanes, transit stops, & safer intersections

Transportation Demand Management (TDM)

- RideShare / Carpool matching



Note:
Three hundred twenty five UVA
(Agency 207) employees reside
within 1,000 feet of the CTS Main
Street Trolley Route.

Date: 4/3/02

\\vsi\projects\geocoding\project\sa\data\710\city & county\cts trolley route.mxd



This mapping has been compiled in accordance with procedures that have been demonstrated to comply with the National Standard for Spatial Data Accuracy (NSDS-A), for the geospatial mapping scale of 1 inch = 540 feet and a specified contour interval of 2 feet.

This map compiled by photogrammetric methods from aerial photography dated March 7, 2000. Old is based on Virginia State Plane Coordinate System, South Zone, NAD 1983-84. Vertical datum is based on NAVD 1988.



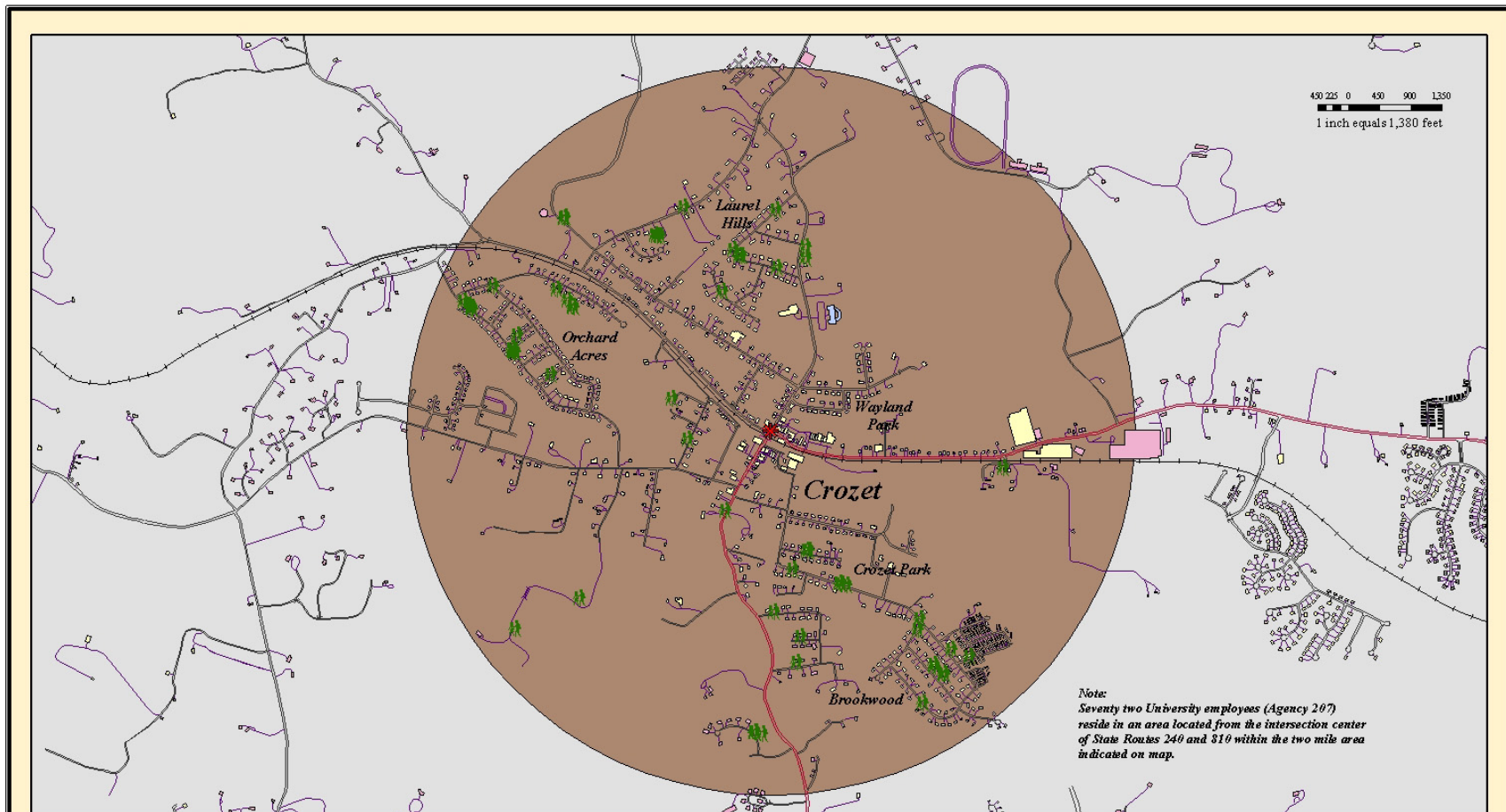
**UVA Employees (Agency 207)
Residing Within a 1,000 Foot Distance
From the CTS Main Street Trolley Route**

University of Virginia
Public Works Department
170 Veterans Road
Charlottesville, VA 22904
(813) 924-4111
Miles P. Davis III
Director, Public Works



Transportation Demand Management (TDM)

- RideShare / Carpool matching



*Note:
Seventy two University employees (Agency 207)
reside in an area located from the intersection center
of State Routes 240 and 819 within the two mile area
indicated on map.*

Date: 4/1/02

i:\gis\esri projects\uva grounds-arc gis\710 crozet area.mxd



This mapping has been compiled in accordance with procedures that have been demonstrated to comply with the National Standard for Spatial Data Accuracy (NSDA), for target horizontal mapping scale of 1 inch = 50 feet and a specified contour interval of 2 feet



Crozet Area
2 Mile Diameter Buffer

University of Virginia
Public Management
Paul F. Ryan & Sons Management
3713 Alderman Road
Crozet, VA 22935



Level of Quality Guidelines



Send comments on use of these concepts in Virginia to info@tpdc.org

Walking -- Levels of Quality

Created by:
Walkable Communities
www.walkable.org

A

B

C

D

E

F

Sidewalks

Exemplary

Excellent

Good

Fair

Poor

Hall of Shame

Walkability increases with added width, buffers to the street, many eyes on the walk, attractive edges. Five-foot minimum widths are needed. Conditions improve as numbers of driveways are reduced, or set back. Non-mountable curbing is important.



Main Streets

Main Street walks should be wide, attractive, with many shops and residential units watching over the street. Many activities are needed to keep sidewalks in use many hours a day. Good lighting and street furniture are essential. Maintenance is key.



Local Streets

Local streets should be narrow, well landscaped, with on-street parking to act as sidewalk buffers. Driving speeds of 10-20 mph are best, 20-25 are acceptable. Homes should be proximate to the street.



Avenue/Boulevard

Avenues and boulevard sidewalks should be 5-6 feet wide in most applications. Planter strips and bike lanes create essential separation from motorists. Trees, other landscaping, medians help slow motorists. Lanes can be as narrow as 10 feet.



Crossings

Crossings should be well marked, accentuated by curb extensions. On multi-lane boulevards it is essential to have exceptionally well marked crossings. In some cases signals are warranted.





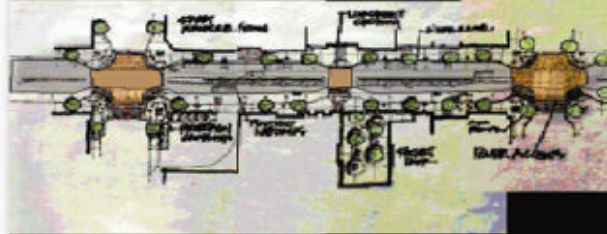
Send comments on use
of these concepts in Virginia
to info@tjpdc.org

Street Crossing Details

Created by:
Walkable Communities
www.walkable.org

Level of Qua

**Pedestrians will walk up to 450 feet
out of their way to cross**



**People seek frequent crossing
points. Most people will walk
150 feet to get to locations
rewarding their arrival. The
best shopping districts
arrange crossings each
300 - 400 feet.**

**Break crossings into separate
threats. Median or refuge
island crossings can be
angled 45 degrees. This
forces people to look at motor-
ists before stepping into their
path. It adds to storage space,
and prevents running across**



**On Multi-lane roads refuge
islands are essential. Set stop
bars back 40-60 feet to prevent
unintended screening when a
motorist yields, blocking the
view of the second motorist.**

**Enhanced signing and imbed-
ded flashing lights can be used
selectively to special crossing
locations where added atten-
tion is needed. These can be
either pedestrian activated, or
triggered by presence of
people.**



Crosswalks & median islands



Roundabout benefits

Reduces frequency & severity of accidents

Study by Insurance Institute for Highway Safety:

- **39% less accidents - all crashes combined**
- **76% less accidents - all injury crashes**
- **90% less fatal and incapacitating injury crashes**



Roundabout benefits

- ☐ Increased capacity, reduced delay
 - Up to 30% greater capacity, LOS A or B typical
- ☐ Reduced emissions, improved air quality
 - Smoother flow, less idling
- ☐ Improved pedestrian access
- ☐ Dependable emergency operations
 - Operates in power failures, no police needed
- ☐ Reduced operational costs

Planning across the lines:

NW Fluvanna-Louisa Corridor Study (+Albemarle)



**Thomas Jefferson Planning District Commission
Charlottesville-Albemarle Metropolitan Planning Organization**

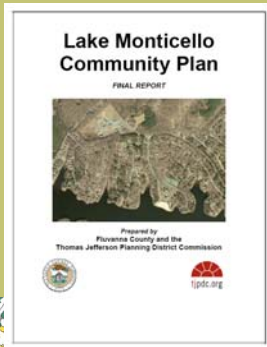
NW Fluvanna-Louisa Corridor Study

- ❑ VDOT, three counties, & TJPDC
 - ✓ Fast-growing ¼ of rural county
 - ✓ Expanding commercial area of adjacent county
 - ✓ Rural planning feeds into MPO area
- ❑ Focused sub-area scenario planning
- ❑ Guidelines to use in Comp Plans
- ❑ Transportation improvements
 - ✓ Public projects & developer proffers

NWF-L Study Process

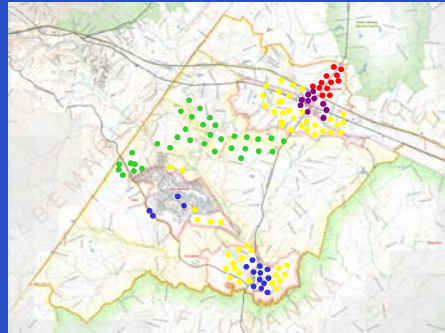
How will we live?

- Build on findings of Community Plans
- Community element inventory
- Enhanced CE diagrams



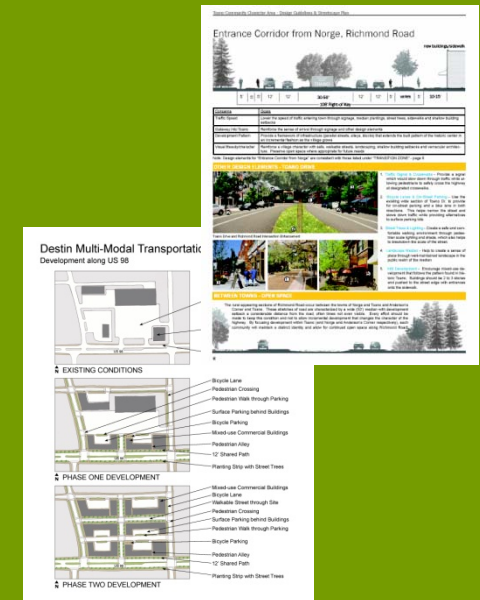
Where will we live?

- Steering Committee meeting
- Growth scenarios
- Transportation options
- Public workshop
- Recommended scenario

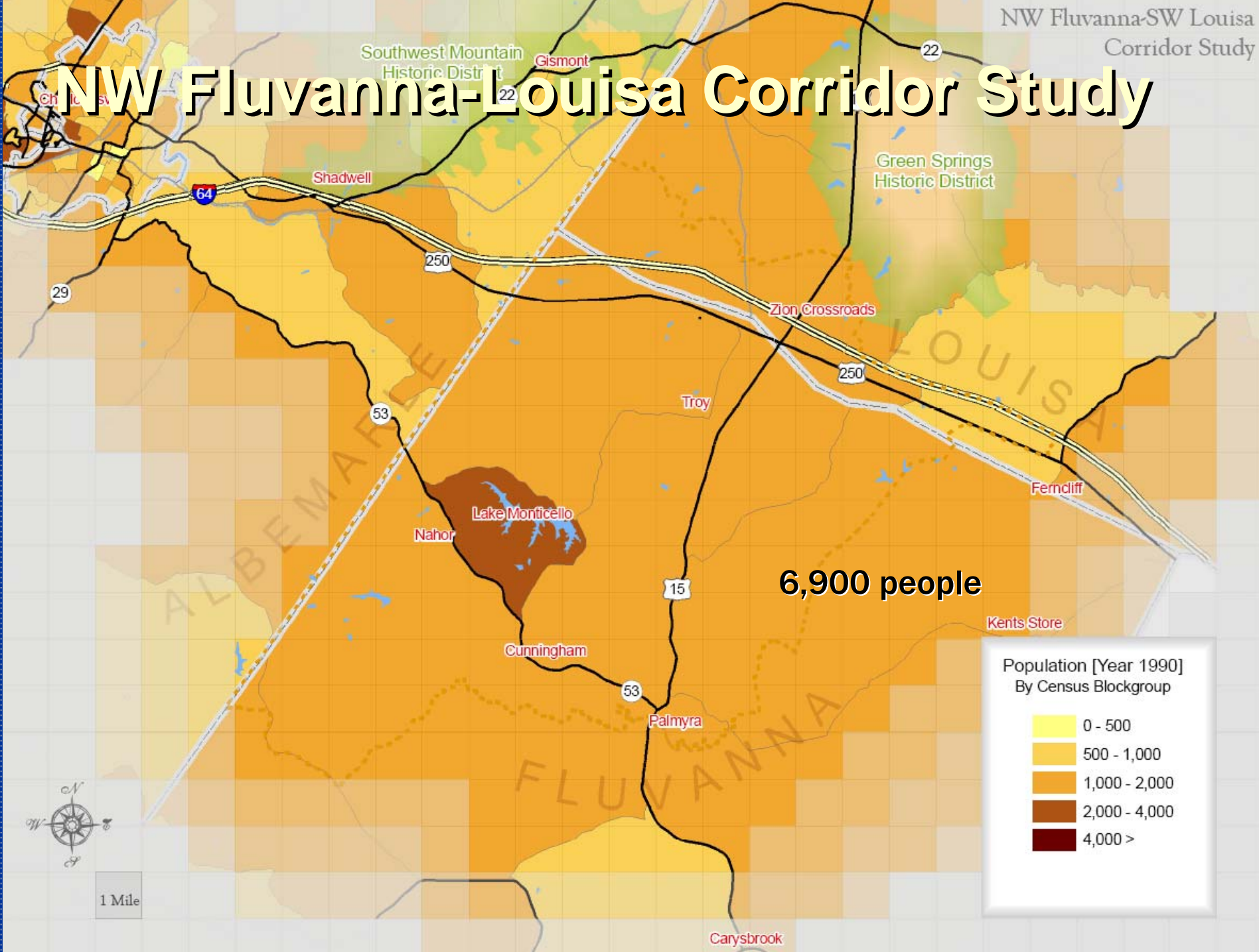


How will we get there?

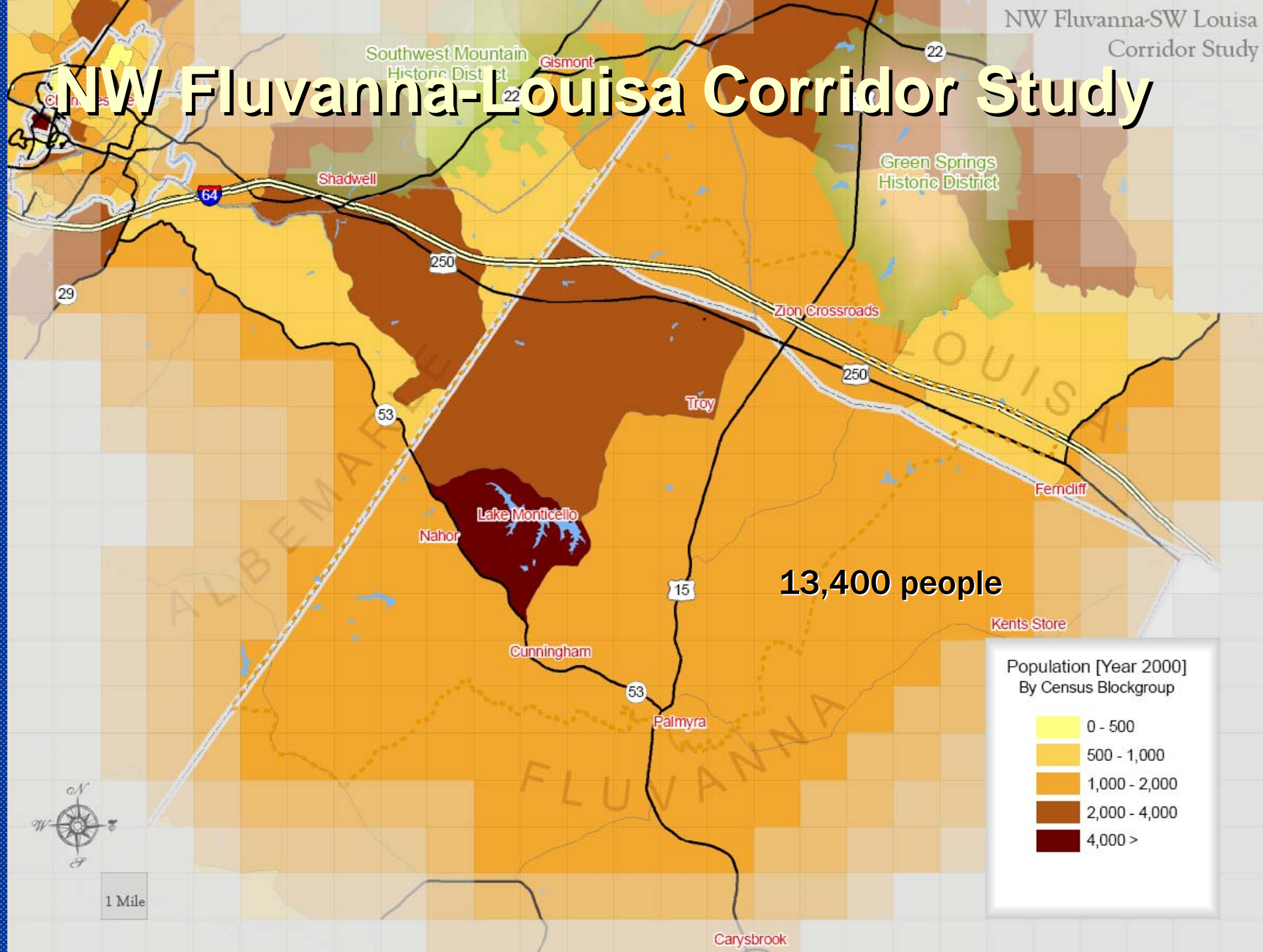
- Framework plan
- Proposed design guidelines
- Transportation projects



NW Fluvanna-Louisa Corridor Study



NW Fluvanna-Louisa Corridor Study



Scenarios 1 & 2

Compact Development



Regional mixed use



Regional employment center



Neighborhood mixed use/Neighborhood residential



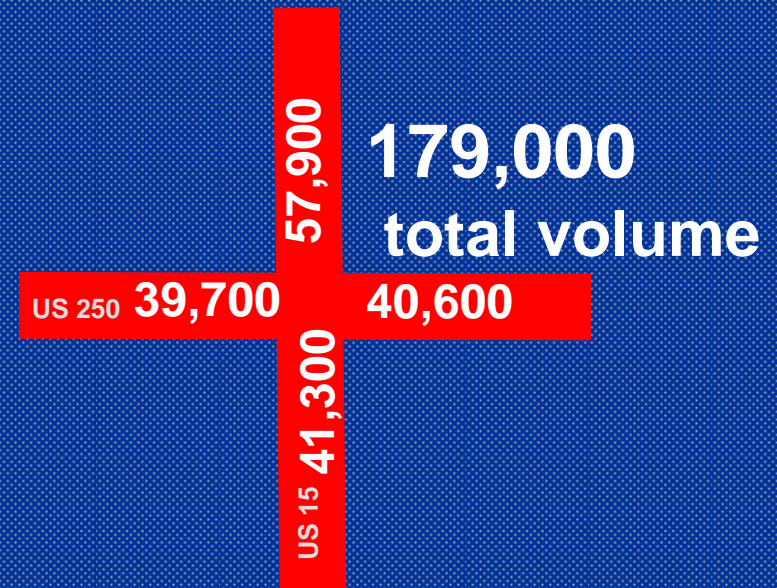
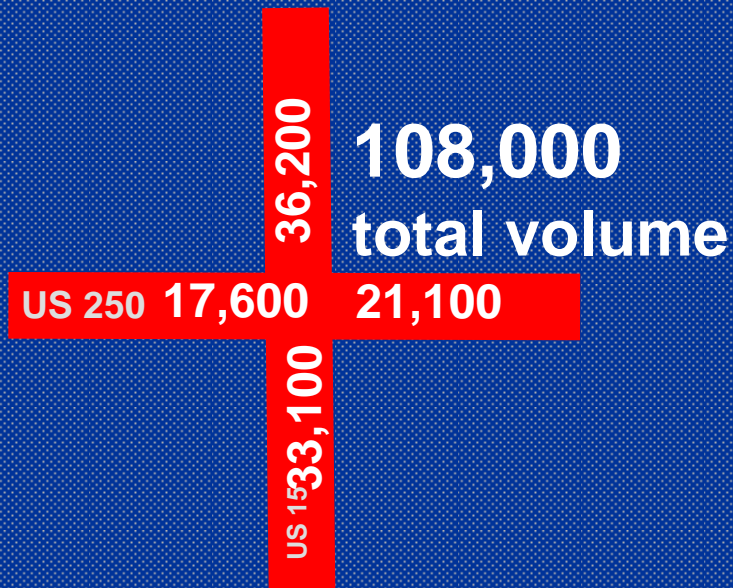
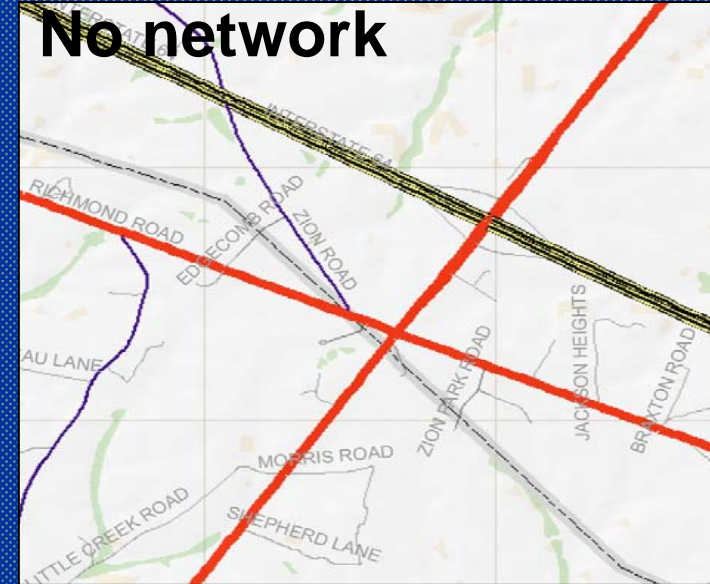
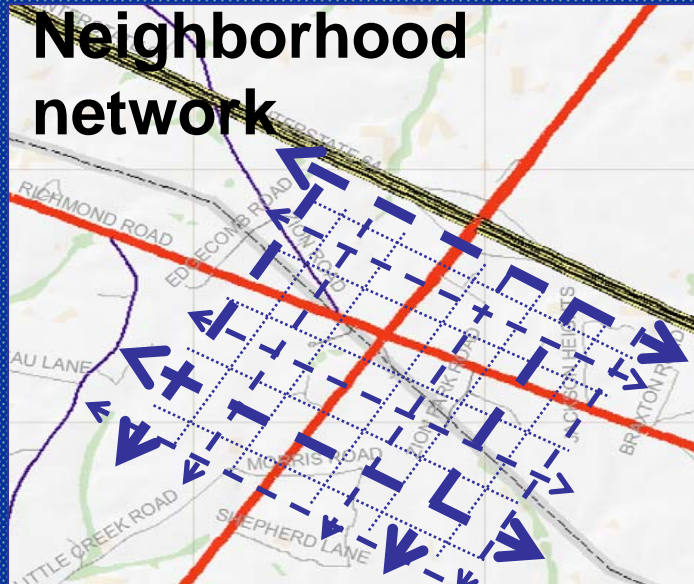
Rural cluster



Village



NWFL Intersection volume at buildout



Add into Comprehensive Plan

3-C NEIGHBORHOOD MIXED-USE

The Neighborhood Mixed-Use place type incorporates multiple uses into a walkable, pedestrian-friendly environment with compact block sizes. Ideally, Neighborhood Mixed-Use areas will include a mix of retail and office uses at the center, with connected residential uses at the edge. A centralized public space is encouraged to establish the identity of the center as a focal point and important civic space in the community.



Through a series of steps, a conventional suburban area may be transformed into a more vibrant and diverse Neighborhood Mixed-Use center. The images above illustrate a potential transformation along Route 60, just north of Slice Road, in Lake Monticello. Beginning with a new approach to the pedestrian environment, the area develops a character of walkability. Continued improvements and infill development reestablish the site as a new Mixed-Use Center.



Potential neighborhood mixed use center at the intersection of Route 60 and Slice Road in Lake Monticello.

3-C NEIGHBORHOOD MIXED-USE

1 CONNECTIVITY

Street Types

Commercial areas within Neighborhood Mixed-Use elements should incorporate Main Street standards. As land use turns to residential, neighborhood streets should be incorporated. When larger, high-speed roads enter the pedestrian-oriented core of a Neighborhood Mixed-Use element, the cross-section should shift into a Commercial Street, to balance vehicular and pedestrian needs.

Connectivity & Block Size

Because of the building density, small block sizes are appropriate for the Neighborhood Mixed-Use element. Block sizes for commercial uses must be expanded to accommodate large retail stores without disrupting the overall block network. Where there are smaller scale storefronts, office uses, and residential, the block size should be minimized.

2 SITE DESIGN

Building Height & Frontage

The tallest buildings making up the Neighborhood Mixed-Use element should be concentrated around the Main Street to provide a sense of spatial enclosure, creating an 'urban room' for pedestrians. Setbacks should be minimized, with no setback along areas serving as Main Street.

Parking

On-Street parking is encouraged along both commercial and residential streets. Surface parking should be placed to the rear of buildings, shielded from the sidewalk and Main Street setting. Large surface parking lots should be placed within the interior of blocks and arranged to maximize sharing between multiple uses.

3 LAND USE

Mix of Uses

Although the Neighborhood Mixed-Use element has a retail bias, a diverse integration of uses, including storefront retail, office, civic, and residential is recommended. This mixed-use quality is important to the vibrance of the center, creating an energized streetscape for residents, patrons, and workers.

Density

The Neighborhood Mixed-Use element combines higher density retail and residential uses. Large parking areas should be minimized in order to optimize the potential density of the center. Most residential uses should be multi-family, with single-family residences only appropriate at the edges.

4 OPEN SPACE

Integration of Open Spaces

Due to its development intensity, the Neighborhood Mixed-Use element allows limited opportunities for open space. A Town Square or Pocket Park is the most appropriate type of open space and is encouraged to establish a public civic space at the core. Greenways may connect between the center and peripheral areas. Recreational Parks may be integrated at the edge of the commercial area to serve the community at large.

Neighborhood Mixed-Use Summary	
Street Types (p 20)	Commercial Street Main Street Neighborhood Street
Block Size	300'-400'
Building Height (p 22)	2-4 Stories
Frontage (p 22)	Storefront Porch
Parking (p 25)	On-Street Surface Residential
Mix of Uses	Storefront Retail (25-75%) Civic (10-25%) Office (10-25%) Restaurant (10-25%) Multi-Family Res (10-25%) Single-Family Res (5-20%)
Density	Commercial FAR: 1.0 Residential DU/A: 8-10
Open Space (p 27)	Town Square Pocket Park Neighborhood Park



Making transit work

- **Transit Ready Development**

Street capacity exercise

People: The more the merrier



A street full of cars

Many streets and highways are at capacity, can't fit more cars, and can't be widened.



A street full of people

If we think in terms of moving people, not cars, existing streets have plenty of room for more.



Bus priority lanes

Saving a lane for buses would increase the capacity of our streets - without widening.



Filling the bike lanes and sidewalks

People walking and biking fill just a fraction of existing sidewalk and bike lane capacity.



Why invest in transit?

It's the best way to maximize capacity of existing roadways – at affordable costs



Las Vegas *MAX* BRT

Multiple doors, low floors, fast boarding



Las Vegas *MAX* BRT

Bright, comfortable interior



Transit-Ready Development

Strategies to address how development in greenfield (or redevelopment) sites can:

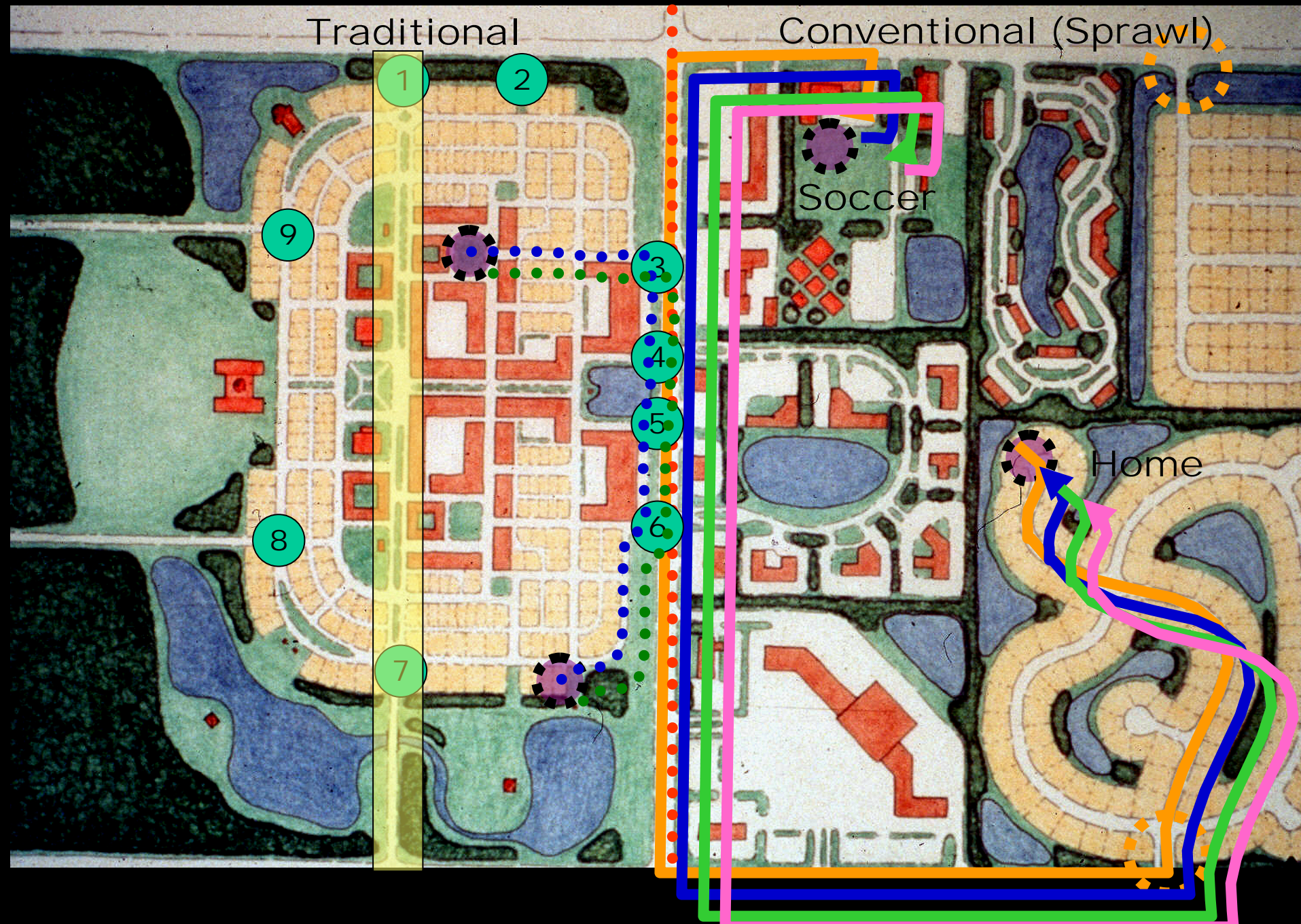
- ☐ **Incorporate transit-supportive strategies early on**
- ☐ **Grow into transit-oriented development over time**

Transit-Ready Development

- ❑ Mixed land uses and diversity of housing types**
- ❑ Pedestrian-friendly site plan, with generous sidewalks and comfortable transit stops**
- ❑ An “urban” street grid (plenty of connections versus cul-de-sacs)**

Traditional

Conventional (Sprawl)



Transit-Ready Development

- ❑ Transit routes and stops that are
 - ✓ incorporated into current development
 - ✓ or factored into future plans
- ❑ Public and commercial facilities designed as Transit Targets and community focal points
- ❑ Transit planning across jurisdictions

Transit-Ready Development

- ☐ **Marketing plans that take advantage of transit-supportive strategies**
 - ✓ **Wide range of housing products**
 - ✓ **One-car (or no-car) families**
 - ✓ **Location-efficient mortgages**
- ☐ **‘Early-action’ transit service**
 - ☐ **Commuter coaches**
 - ☐ **Circulator trolleys**

29H250 & Places29

Re-engineering the Suburban Strip



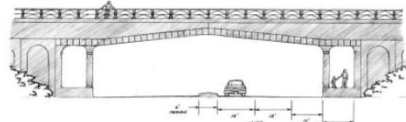
Thomas Jefferson Planning District Commission
Charlottesville-Albemarle Metropolitan Planning Organization

29H250 Project area – phase 1 & 2



Where have we been...

Started at the south end of the corridor
Focused on triangle of US 29, Hydraulic
Road and US 250 Bypass in two phases



29H250

US-29-Hydraulic-250 Bypass Intersections Study

This 29H250 Report has been written to detail the findings of the recently completed staff exercise. It may be reviewed or downloaded from our website, and copies are available for review in local libraries and at the TJPDC office. Comments and questions can be e-mailed, mailed, faxed, or called in to the numbers below.

For more information:
Thomas Jefferson Planning District Commission
300 East Main St., PO Box 1505
Charlottesville, VA 22902
(434) 979-7310
(434) 979-1597
info@tjpd.org

May, 2003



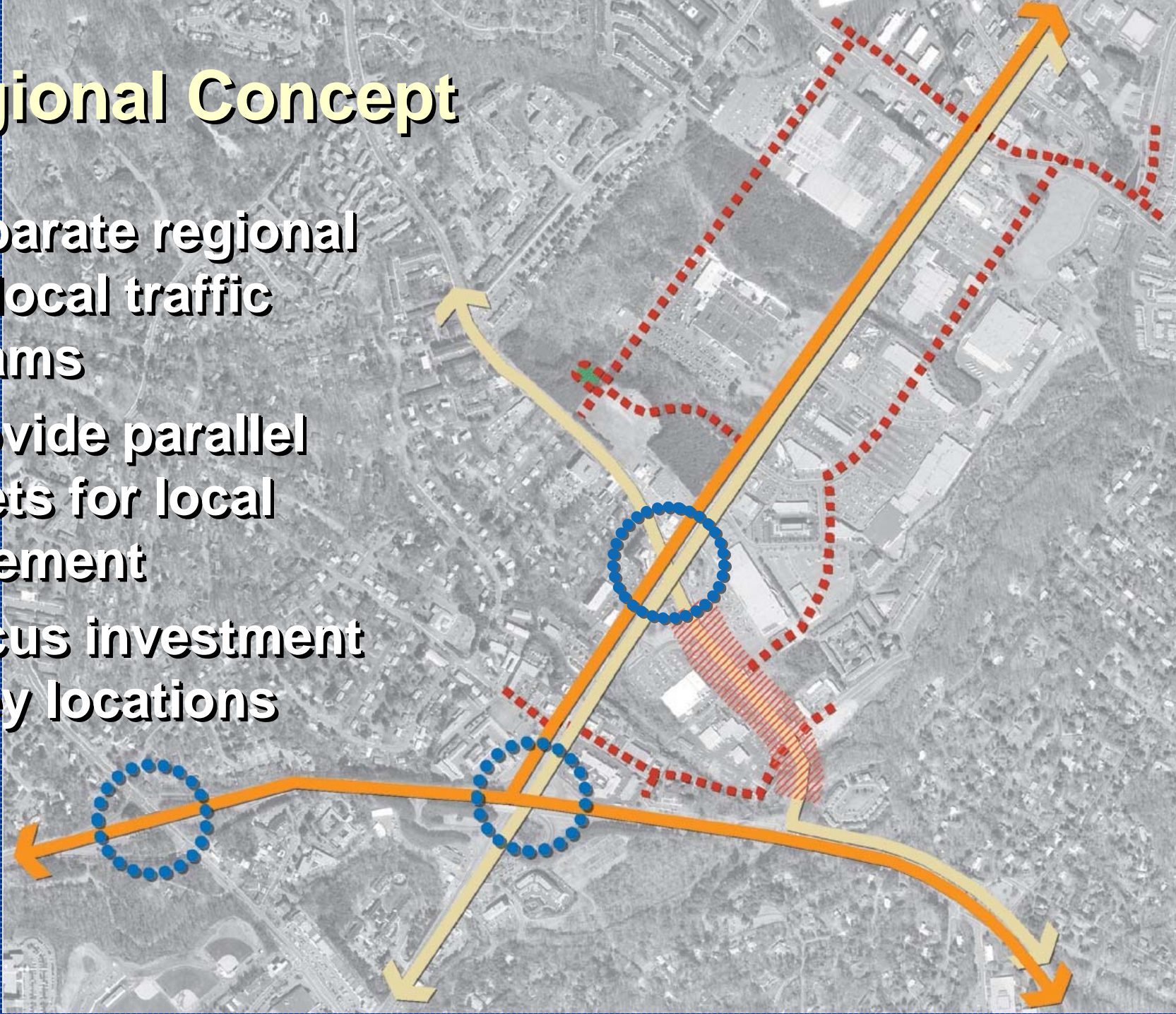
29H250 Phase 2 Report

Thomas Jefferson Planning District

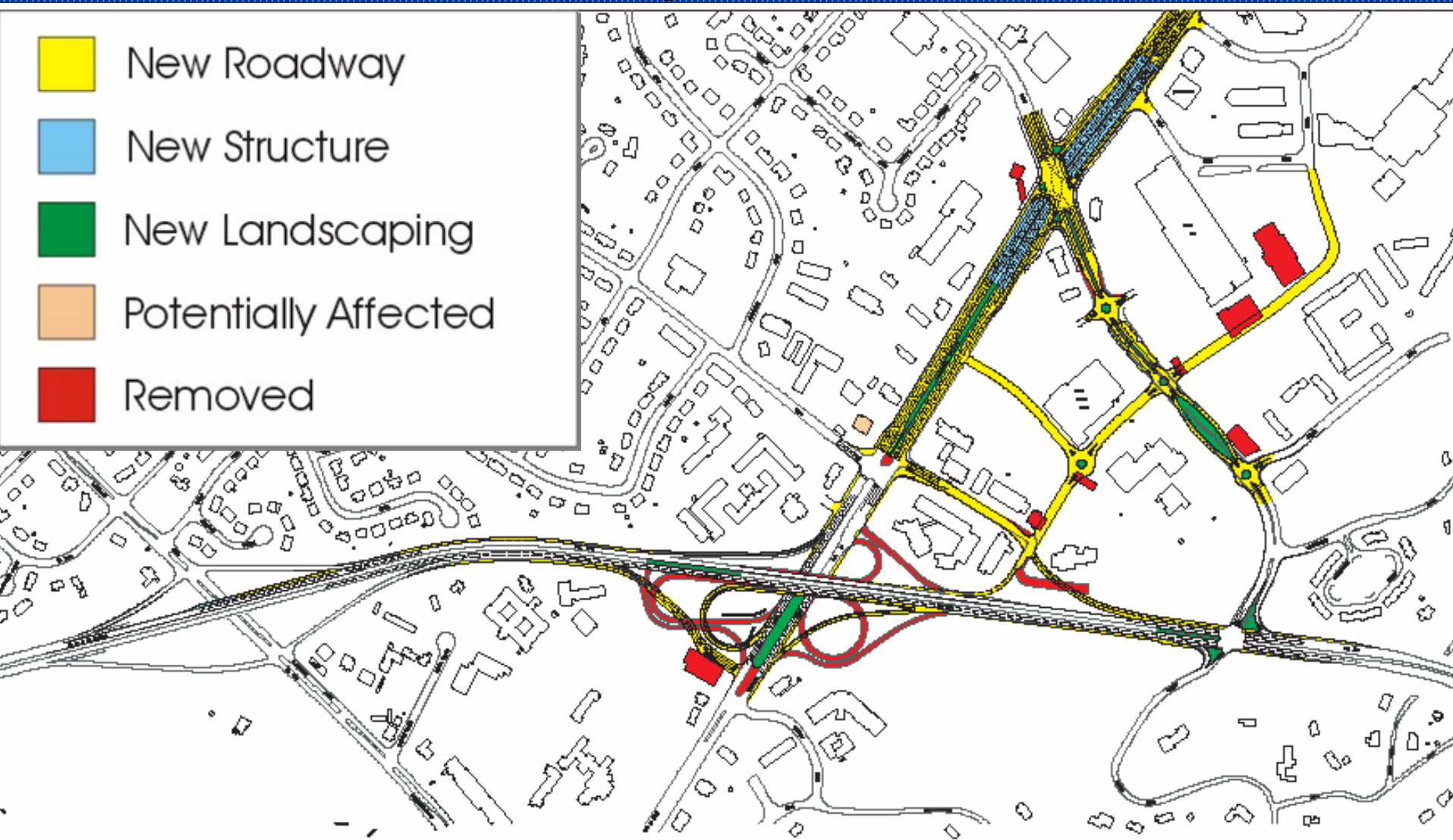


Regional Concept

- Separate regional and local traffic streams
- Provide parallel streets for local movement
- Focus investment at key locations



Recommended Design



RECOMMENDED DESIGN
29H250 PHASE 2

0 100 200 400
1"=200'

29H250 preliminary solutions

☐ Alternatives modeled and tested

- ✓ Three distinct alternatives**
- ✓ Variety of development scenarios**

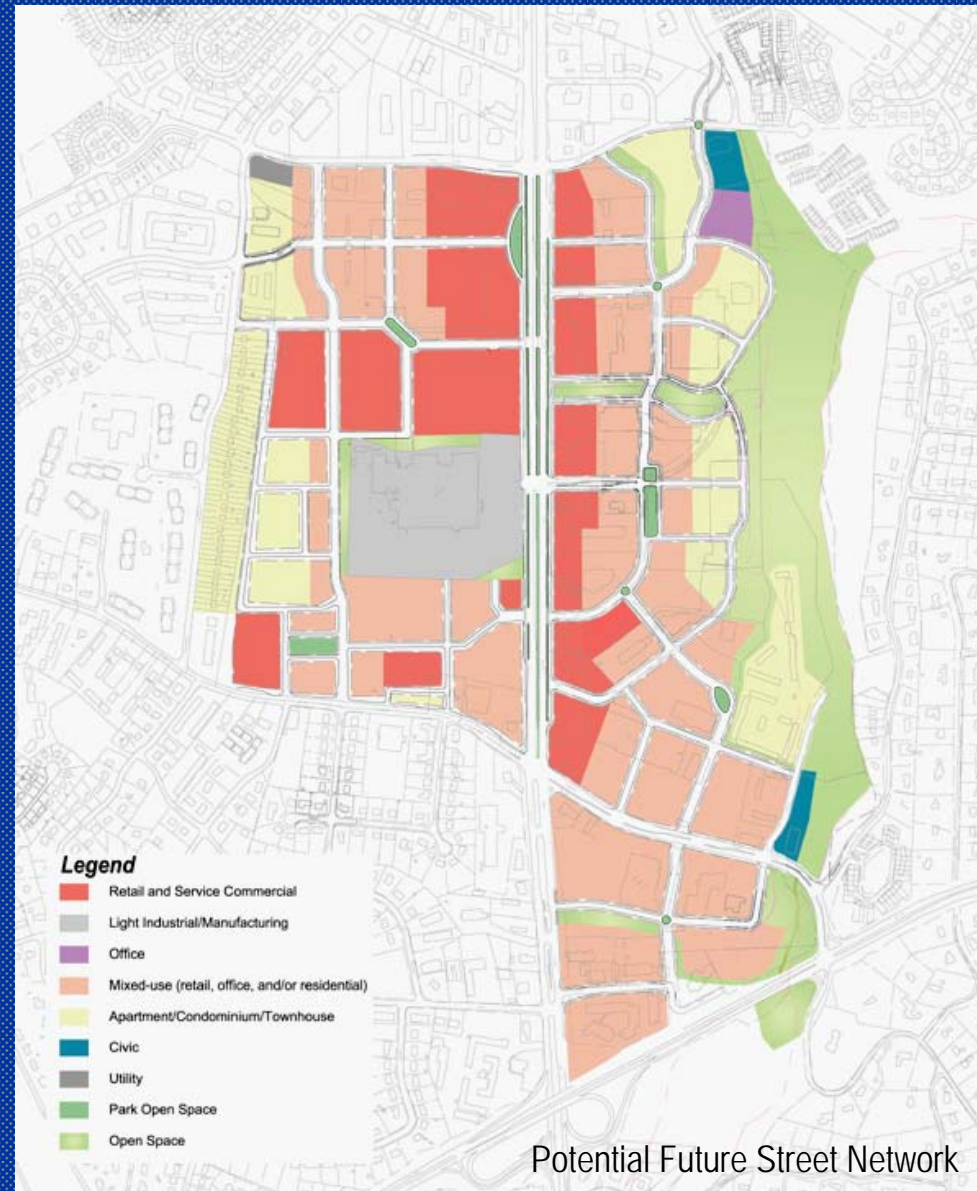
☐ Selected alternative:




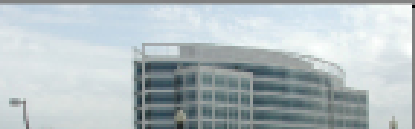
- ✓ Maintains current LOS for 20 years**
- ✓ Increases tax revenue by \$2.6m/yr within 7 years**
- ✓ Increases ped, bike, and transit access**
- ✓ Can be built in affordable segments**

Parallel Road Network

**Provides for
pedestrian zones on
either side of US 29**

**Potential over the
long term to provide
a finer grain
network of streets**



Type	Photo/ Illustration	Gross Density (du/ac or FAR)	Min. Development Increment (du or sq.ft.)	Min. Site Area (acres)	Lot or Building Dimension Range (feet)
Retail					
Neighborhood- serving Retail		0.20 FAR	14,500 sq. ft.	1.7 acres	112' X 130' Anchor Size: 10,000 to 25,000 sq.ft.
Community-serving Retail		0.30 to 0.50 FAR	50,000 sq.ft.	2.5 to 4 acres	Linear Depth: 40' to 60' Anchor Size: 25,000 to 55,000 sq.ft.
Specialty and Miscellaneous Retail &Service		0.30 to 0.60 FAR	10,000 sq.ft.	0.3 to 0.75 acres	Linear Depth: 40' to 60' May have small anchors: 10,000 to 20,000
Office					
		Office Park w/		Range to be	Building width: 100' to

Potential for Changed Land Use

**Brandywine Prop/Housing Authority/Regency Cinema -
retail and living opportunities**



New Retail: 165,000 sf
New Housing: 175 du



Potential for Changed Land Use

**Brandywine Prop/Housing Authority/Regency Cinema -
mixed-use - retail/entertainment & living opportunities**



New Retail: 170,000 sf
New Housing: 600 du



Hydraulic Road - Existing conditions



Hydraulic Road – 'Main Street' Redevelopment



US 29 - Existing conditions



US 29 – High-Capacity Boulevard



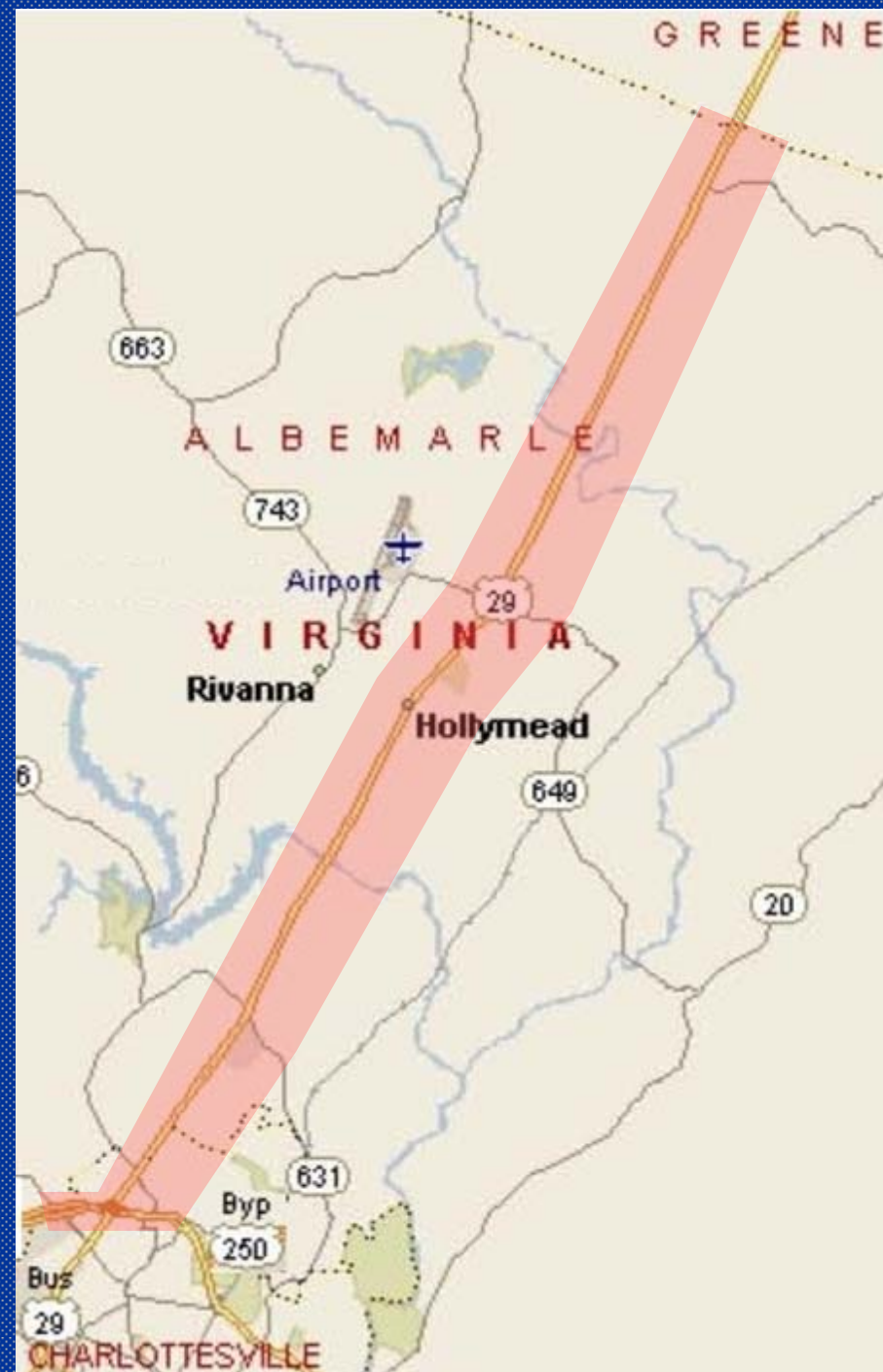
US 29 – Urban Interchange



Places29 & 29N

Places29 combines:

- VDOT & MPO 29N Corridor study
- Albemarle County Northern Development Areas Master Plan
- Links land use & transportation
- Transit-Ready Development



What's different about the project?

- Inter-agency technical team combined with outside consultants**
- Led by MPO, County & interagency team**
- Extensive public & business involvement**
- Balanced goals of multi-modal mobility, safety, economic development, neighborhood & business protection**
- Combines MPO/VDOT transportation plan with County land use plan**

Places29 Place types

Place Types for Places29

	Centers				Land Uses organized around Centers			
Definition	Centers are focal points or cores around which development is organized.				Land Uses that are organized around a Center and located within a quarter-mile walking distance from this core area.			
Diagram								
Summary Description	<p>A Civic Green Center is primarily an urban open space (not just a natural area) that includes:</p> <ul style="list-style-type: none"> Uses fronting onto the center Multiple access points to neighboring residential or employment areas Design elements that provide a sense of arrival and civic presence 	<p>A Neighborhood Service Center is a cluster of mixed use buildings with:</p> <ul style="list-style-type: none"> Neighborhood-serving retail/service uses on the first floor An (optional) urban open space located adjacent to the mixed-use buildings (see description of Civic Center Green) 	<p>A Community Center is a retail/service mixed use center that:</p> <ul style="list-style-type: none"> Is typically anchored by a grocery store Contains additional retail/service, commercial and other uses as well as residential uses that give it a mixed use character Is designed with multiple connections to surrounding residential or employment neighborhoods Is visible and accessible from a major road Includes an urban open space and an optional recreational or civic facility 	<p>A Destination Center is a mixed use center that:</p> <ul style="list-style-type: none"> Is anchored by commercial uses, including a range of retail, entertainment, service and employment uses that draw from the larger region Includes residential uses on upper floor(s) Is designed with multiple connections to surrounding residential or employment neighborhoods Is visible and accessible from major roads, including US 29 Includes an urban open space and recreational or civic facility 	<p>An Uptown is a special mixed use area that:</p> <ul style="list-style-type: none"> Is the most urban portion of the Places29 area Includes a broad range of employment and residential uses and activities in a mixed-use environment Includes some convenience retail with (few "shoppers goods stores," such as clothing and household goods) Includes an urban open space or public square as well as a significant recreational or civic facility May be larger than a Neighborhood and have multiple Centers 	<p>A Mixed Use Neighborhood is a mixed use area:</p> <ul style="list-style-type: none"> With a range of single use and mixed use buildings that include housing on upper floors Mixed-use area may extend beyond the boundary of the 1/4 mile walking area of the Center Center of Mixed Use Neighborhood is more fully integrated into the surrounding mix of uses than is the case with other neighborhood types (see illustration) 	<p>An Employment Neighborhood is an existing or future employment area whose:</p> <ul style="list-style-type: none"> Uses are organized around a Center that provides services and recreational opportunities for workers Employment uses are located within 1/4 mile walking distance from the Center 	<p>A Residential Neighborhood is an existing or future residential area whose:</p> <ul style="list-style-type: none"> Residential buildings are organized around a Center Residential areas have convenient pedestrian connections to the Center Residential uses are located within 1/4 mile walking distance from the Center Residential building types range from single-family detached, to townhomes, to apartments
Photo Example								
Map Symbol								

* On Green Infrastructure Map

** On Framework Map

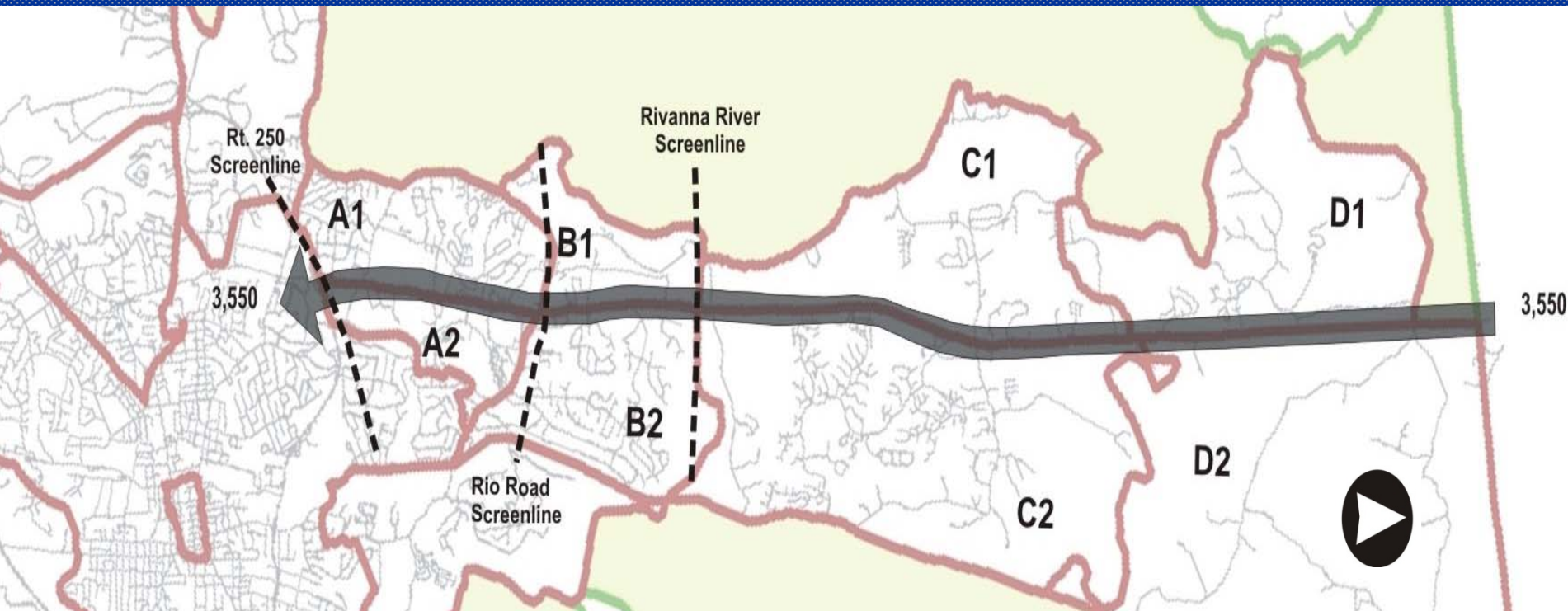
Through Trips

Both origin and destination are outside the urbanized portion of Albemarle County

About 75% of these trips are destined for I-64 and US 29 south

25% of ADT at Greene County

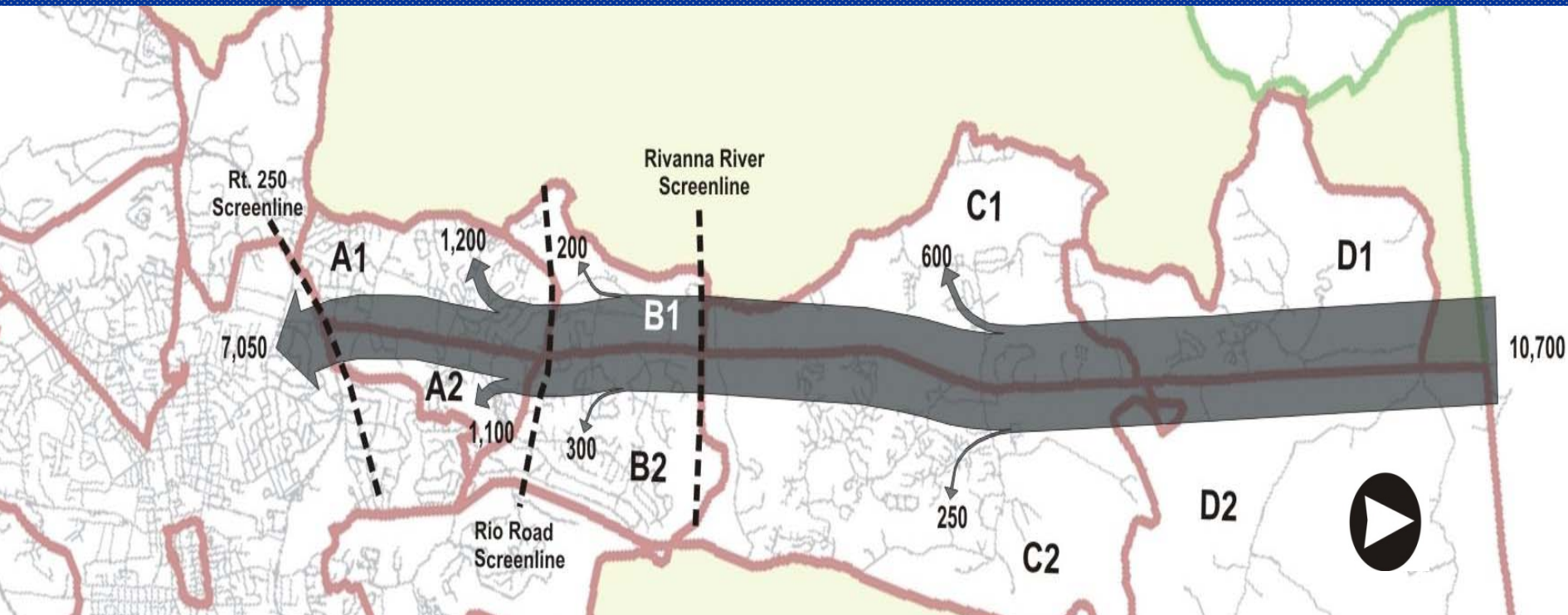
12% of ADT near US 250 Bypass



External Trips

Origin or destination is external to the urbanized portion of Albemarle County

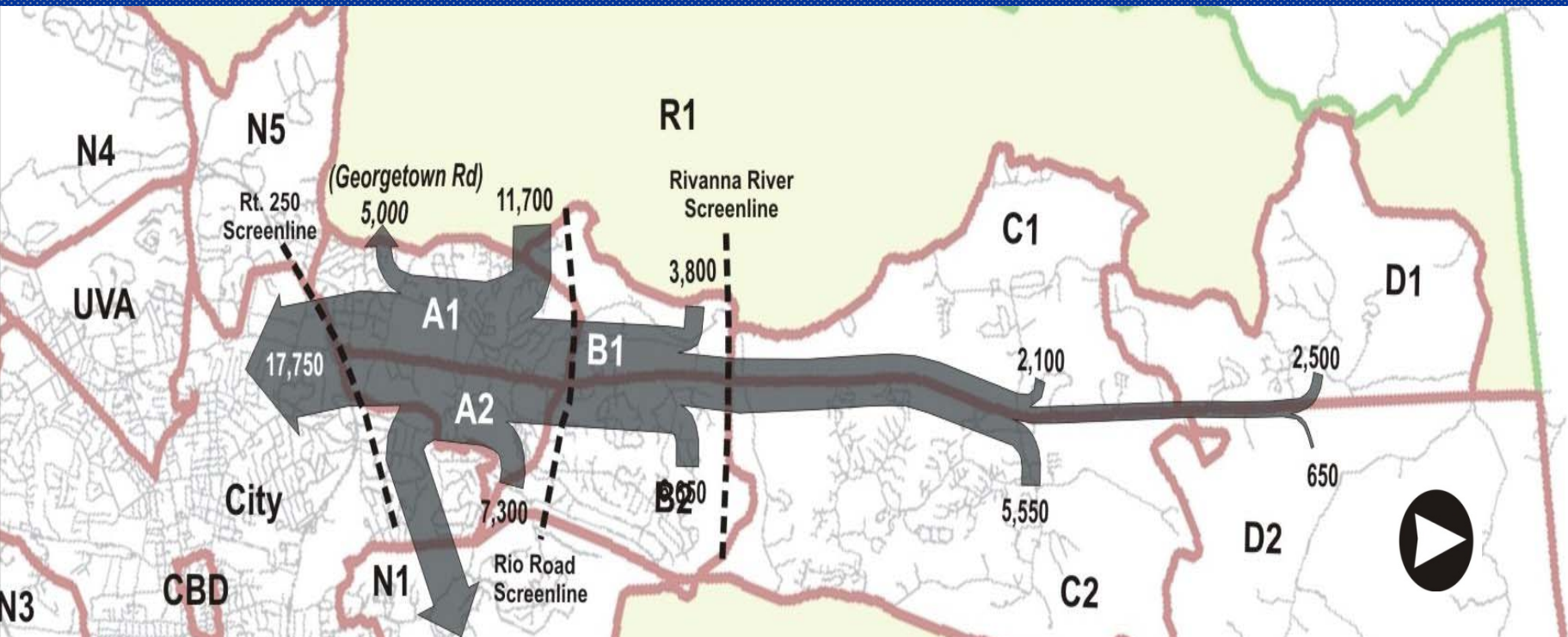
About 70% of these trips travel the length of the US 29 North Corridor destined for UVA, Charlottesville
24% of ADT near US 250 Bypass



Internal Trips

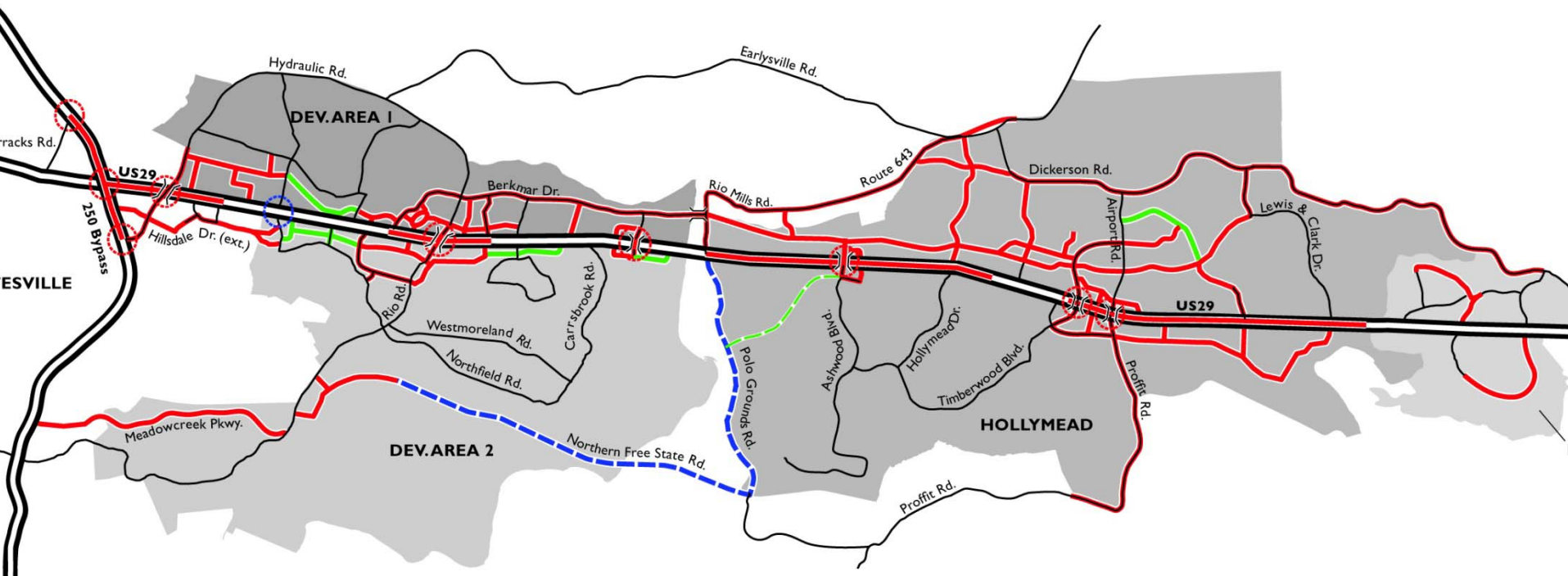
Both origin and destination are inside the urbanized portion of Albemarle County

Approximately 64% of daily trips in the southern portion of the US 29 North Corridor

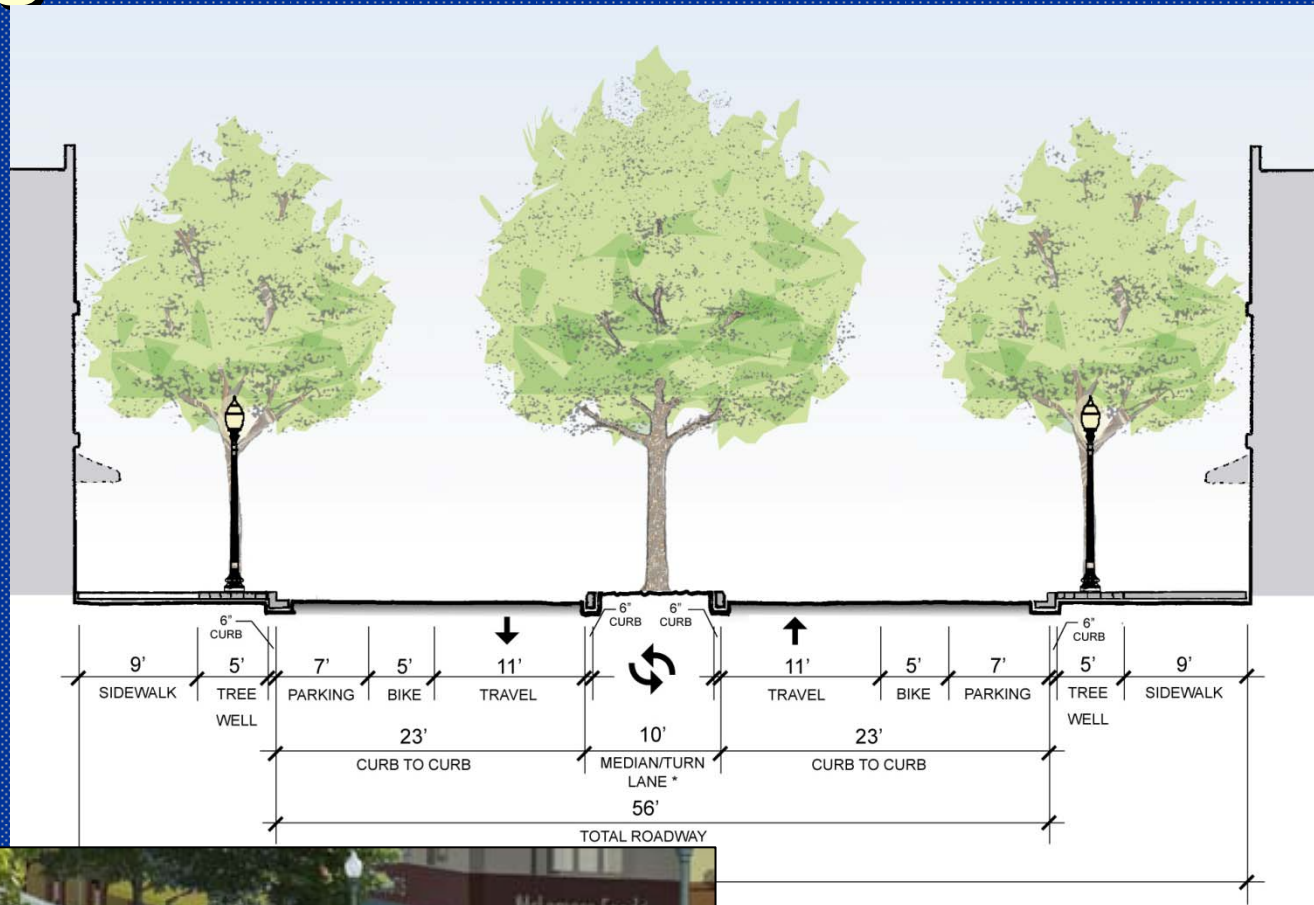


Places29 Preferred Road Network

- Establish Parallel Routes that support performance of US 29
- Provide Connectivity across US 29 through grade separations in key locations
- Framework for bicycle and trails network



Street Design - Parallel Routes

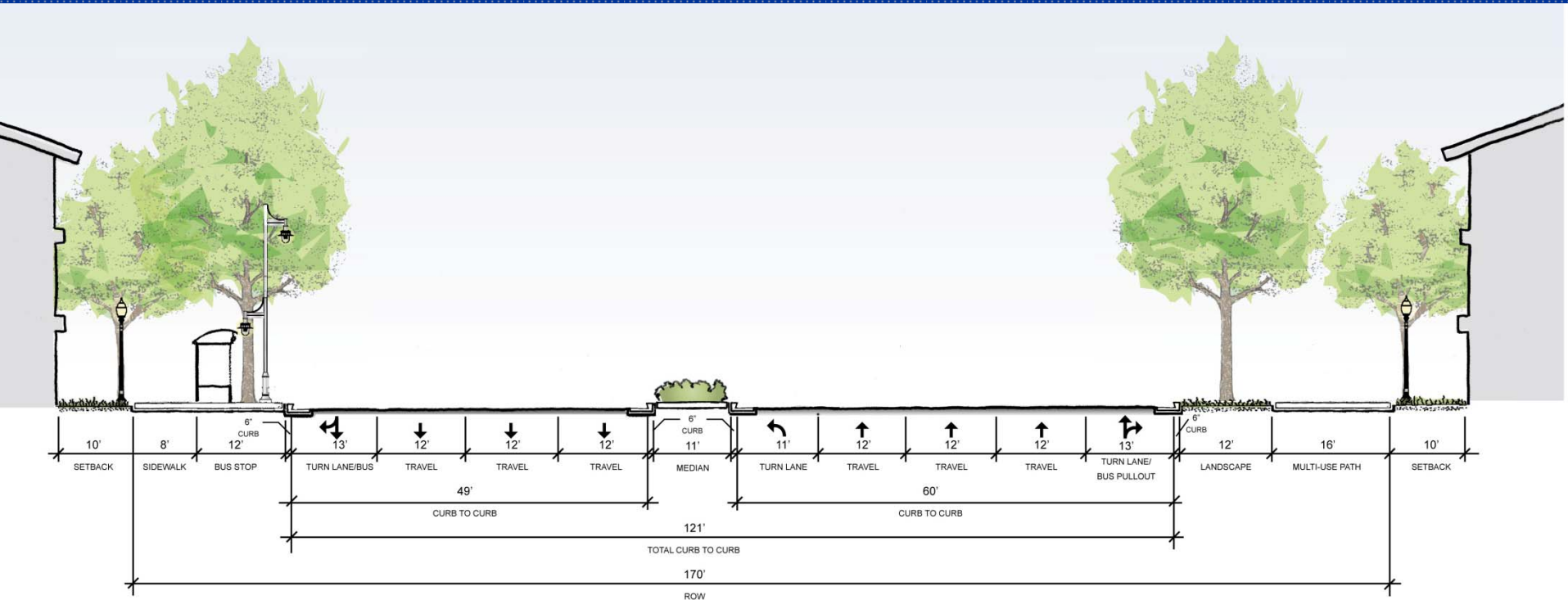


* NOTE: TURN LANE WHERE NEEDED



Multi-modal Street Improvements

US 29 North - Sample 6-Lane Cross
at a perpendicular “main street”



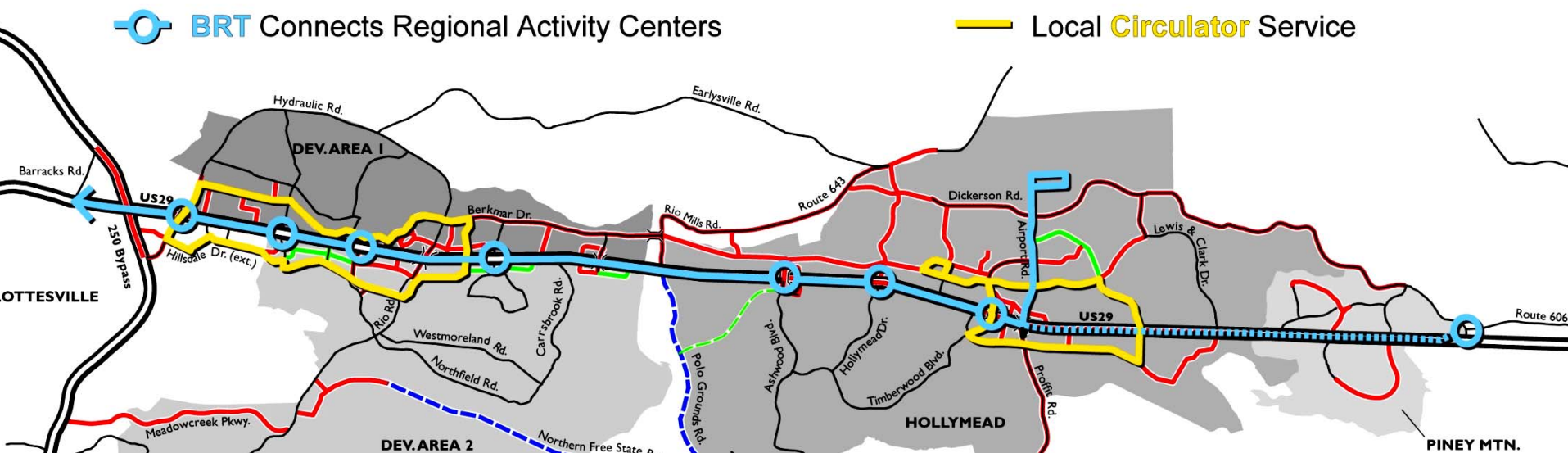
Preferred Network - Transit (Expanded Stage)

Use **BRT** to connect Regional Activity Centers

- Employment – NGIC, GE Fanuc, UREF
- Airport
- UVA
- Downtown Charlottesville

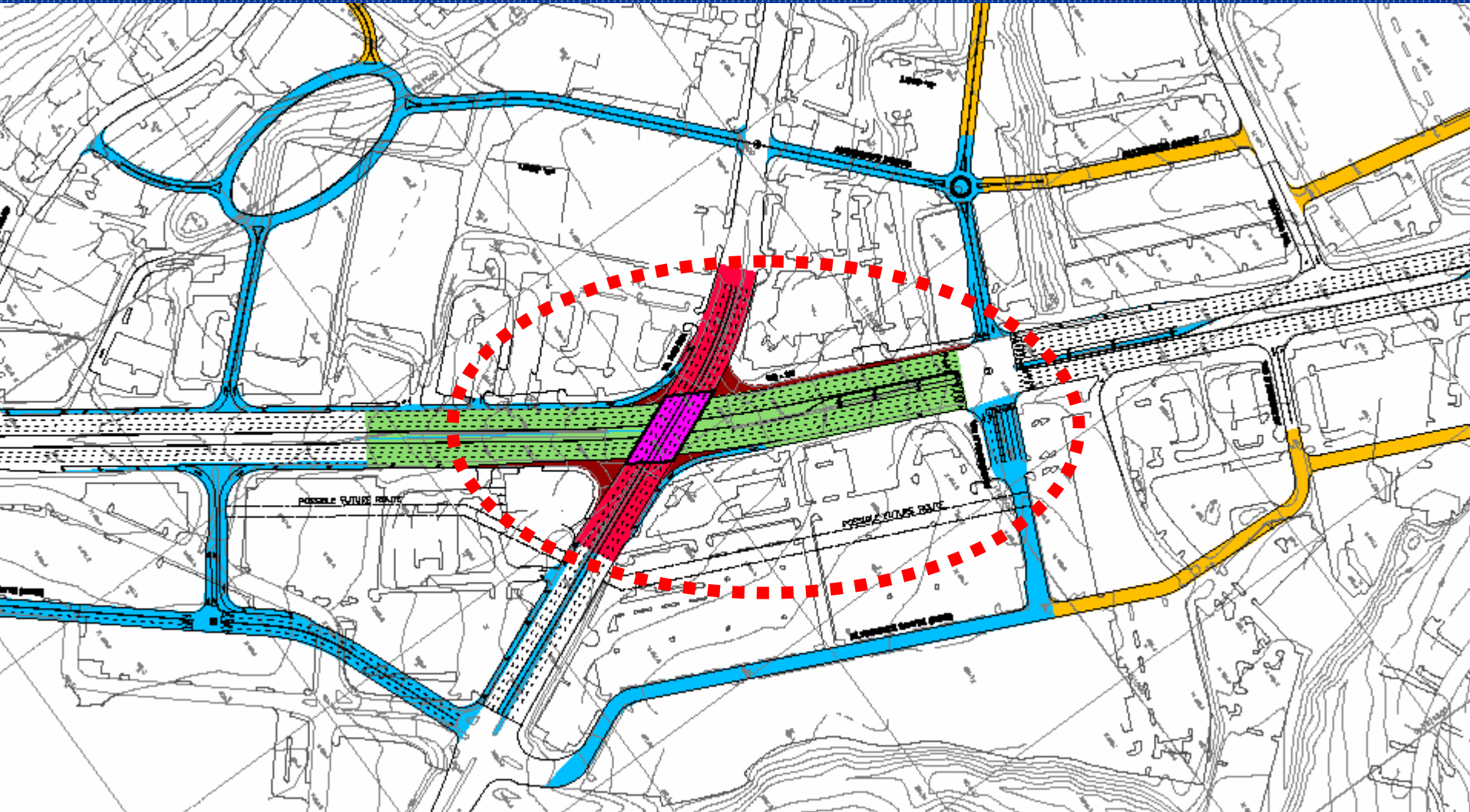
Provide **Circulators** in Uptown Area and S. of Rio Road

- Use parallel/frontage roads
- Link lifestyle/retail destinations
- Allows for wider BRT stop spacing/faster trip time
- Suitable for Modern Streetcar



Grade-separated urban intersection

US29 at Rio Rd



US29 facing south toward Rio Road



Typical suburban roadway with auto-oriented shopping

US29 facing south toward Rio Road



Urban grade separation (in distance) and multimodal boulevard – 4 lanes each direction plus turn lanes (with median islands for safety)

US29 facing south toward Rio Road



Mixed-use infill development on existing aging shopping centers

US29 facing south toward Rio Road



Additional block-by-block redevelopment provides Transit Targets and enhanced walking and wheeling choices

US29 facing south toward Rio Road



Additional block-by-block redevelopment provides Transit Targets and enhanced walking and wheeling choices

US29 facing south toward Rio Road



Additional block-by-block redevelopment provides Transit Targets and enhanced walking and wheeling choices

US29 facing south toward Rio Road



Landscaping matures over time

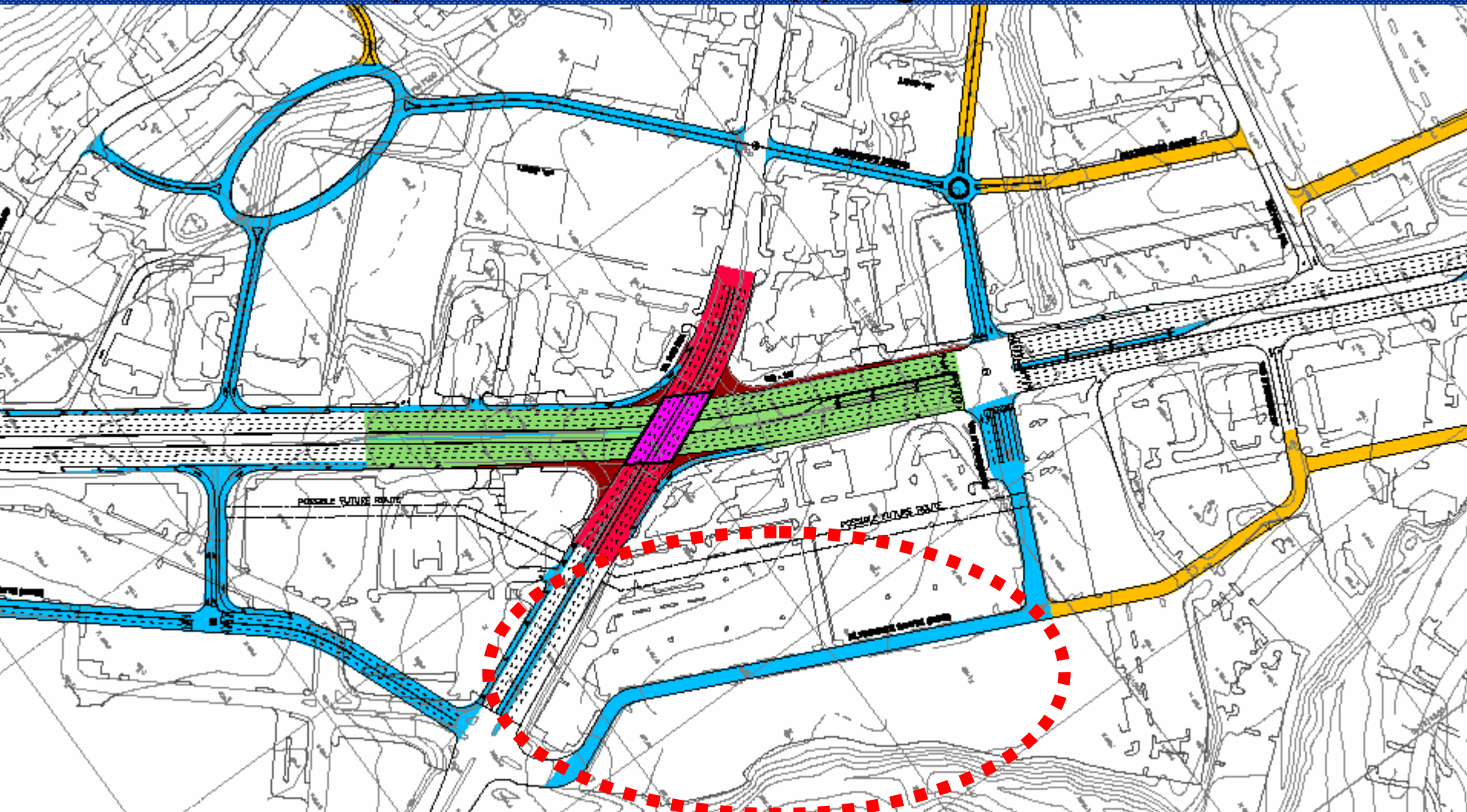
US29 facing south toward Rio Road



Zoomed in toward grade-separated intersection

Redevelopment as Transit Target

Albemarle Square – older shopping center at Rio & 29



Redevelopment as Transit Target

Albemarle Square – older shopping center in Midtown



Redevelopment as Transit Target

Mixed use/residential infill on under-used parking lot



Redevelopment as Transit Target

Redevelopment of existing buildings



Amenities for walkability and interaction

Amenities for walkability and interaction



Redevelopment as Transit Target

Expansion as market demands



New development – ‘Uptown’

Airport Road & UVA Research Park in Uptown



New development – ‘Uptown’

Phase & coordinate public/private infrastructure



New development – ‘Uptown’

Initial phase Transit-Ready, urban block structure



New development – ‘Uptown’

Infill on surface lots as demand increases



Transforming 'Gasoline Alley'

Becoming a Transit-Ready neighborhood center



Transforming 'Gasoline Alley'

Medians and pedestrian improvements



Transforming 'Gasoline Alley'

Continue public improvements



Transforming 'Gasoline Alley'

Mixed-use infill development on individual properties



Transforming 'Gasoline Alley'

Continue infill development



Transforming 'Gasoline Alley'

Landscape matures over time

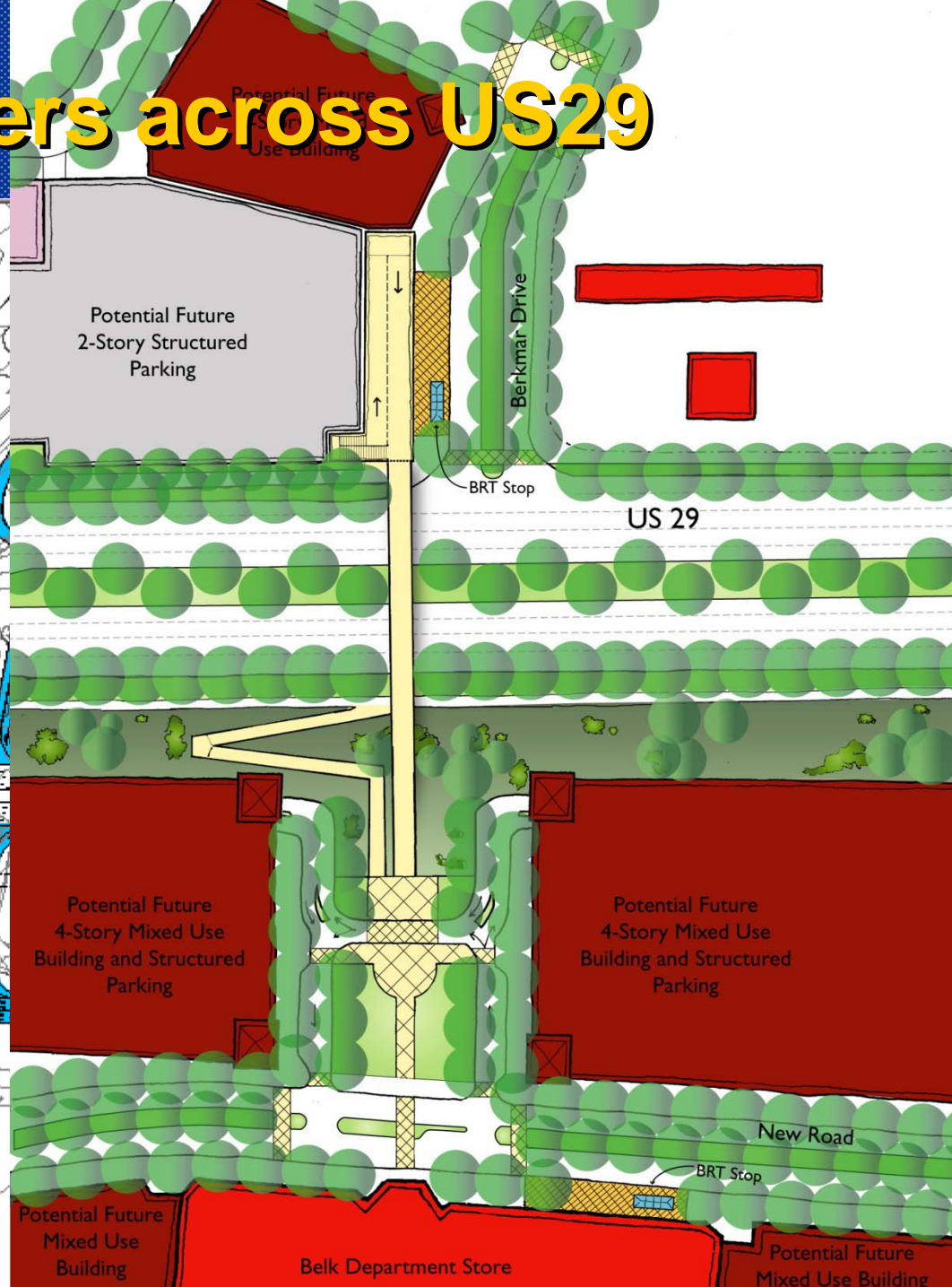
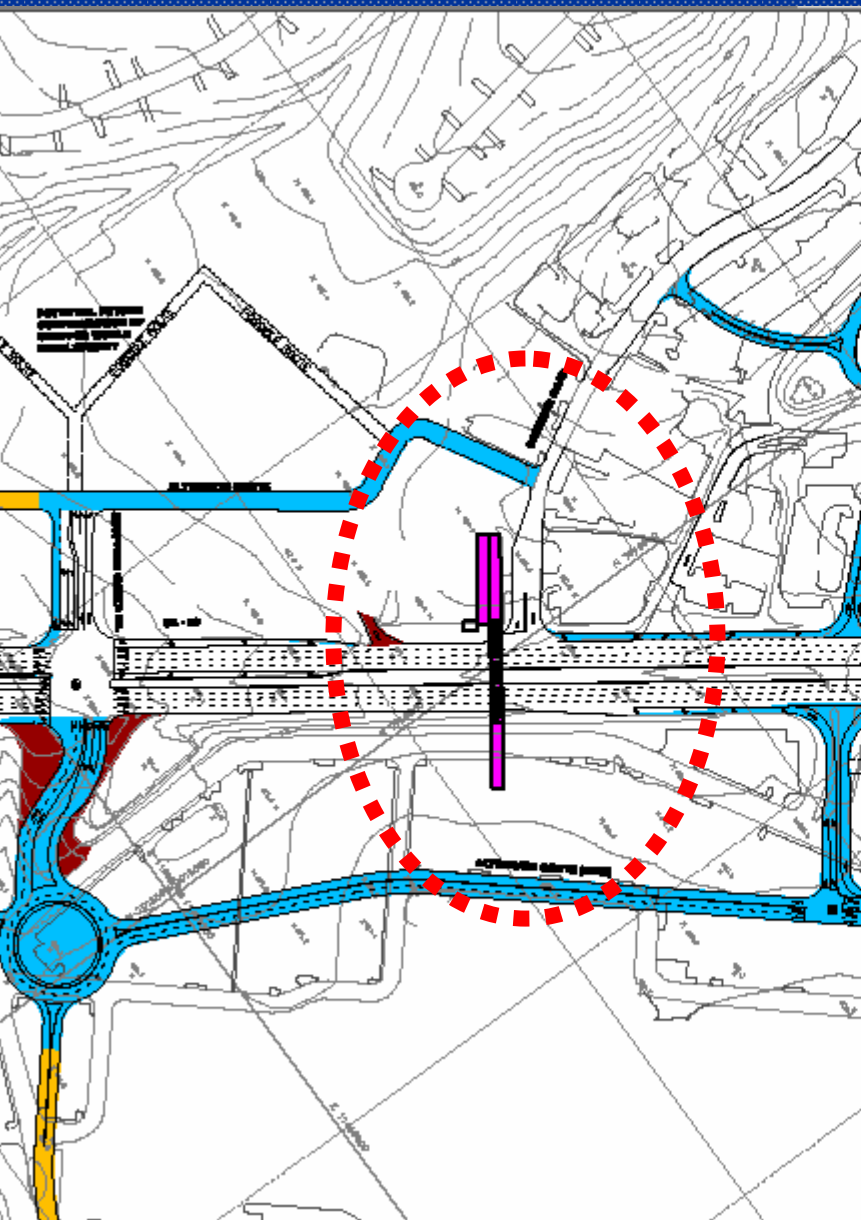


Transforming 'Gasoline Alley'

Add transit service as market grows



Linking the Center



Linking the Centers across US29

Berkmar Drive at US 29, across from Fashion Square



Linking the Centers across US29

Berkmar improvements and ped/bike bridge across 29



Linking the Centers across US29

Building by building infill development



Linking the Centers across US29

Continued redevelopment



Linking the Centers across US29

Activity increases as businesses properties redevelop



Linking the Centers across US29

Landscaping matures over time



Linking the Centers across US29

Berkmar Drive zoomed in at Fashion Square



Linking the Centers across US29

Ped/bike bridge from mall to transit stop/garage



Linking the Centers across US29

Mixed-use redevelopment on Berkmar & mall parking lot



Linking the Centers across US29

Landscaping matures



Linking the Centers across US29

Additional redevelopment



Linking the Centers across US29

Landscaping matures over time



Extending the road network

End of Berkmar at Sam's Club, parallel to US29



Looking North across Rivanna River

Extending the road network

Road extended to new bridge across the Rivanna



Extending the road network

Infill re-development in big box parking lot



Extending the road network

Landscaping matures



Extending the road network

Activity increases



Extending the road network

Detail zoomed in at bridge



Next steps? Opportunities for UVA

- ☐ **Continue participation in Regional Transit Authority Plan**

- ☐ **Attend policymaker workshop in late January?**

- ☐ **Coordinate Travel Demand Management (TDM) strategies**

- ☐ **Accelerated joint deployment of NuRide web-based carpooling ?**

- ☐ **UnJAM 2035 update**

- ☒ **Regional transportation summit workshop in April**

Getting started

It takes partners - and clear direction





Thank you

(434) 979-7310

www.tjpd.org

Harrison B. Rue



**Thomas Jefferson Planning District Commission
Charlottesville-Albemarle Metropolitan Planning Organization**