

## Chapter IX

# 2045 Project Lists

In this chapter, the reader will find:

- The **2045 Rural Project List** from the Rural Long Range Transportation Plan
- The **2045 Vision List** of all unconstrained projects
- The **Constrained List** of all funded projects within the MPO area

**114 2045 Constrained Long Range Plan (CLRP)**

**114 2045 Vision List**

**120 Further Evaluation Needed**

**120 Future Studies**

**120 Bike and Pedestrian List**

**120 Transit Projects List**

# 2045 Project Lists.

## 2045 Constrained Long Range Plan (CLRP)

The financially constrained transportation improvement project list is limited by a reasonable estimation of future state and local transportation funding sources through year 2045. Once the total amount of anticipated funding has been allocated, the LRTP is established, and remaining projects fall into the unconstrained, or vision, list. **Table 3** details the projects that make up the Constrained Long-Range Plan (CLRP).

LRTP projects that fall within the first six years of the plan are part of the VDOT's six-year improvement program (SYIP) and represent the MPO's greatest transportation improvement needs. These projects were chosen prior to the Danville MPO planning process and thus were not analyzed using its evaluation program.

All funding that is projected to be available for construction projects in the MPO through year 2045 will be expended on these projects. As such, given the current funding situation the Danville MPO is unable to add any projects to its Constrained List beyond those identified on the FY 2021 SYIP.

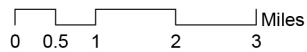
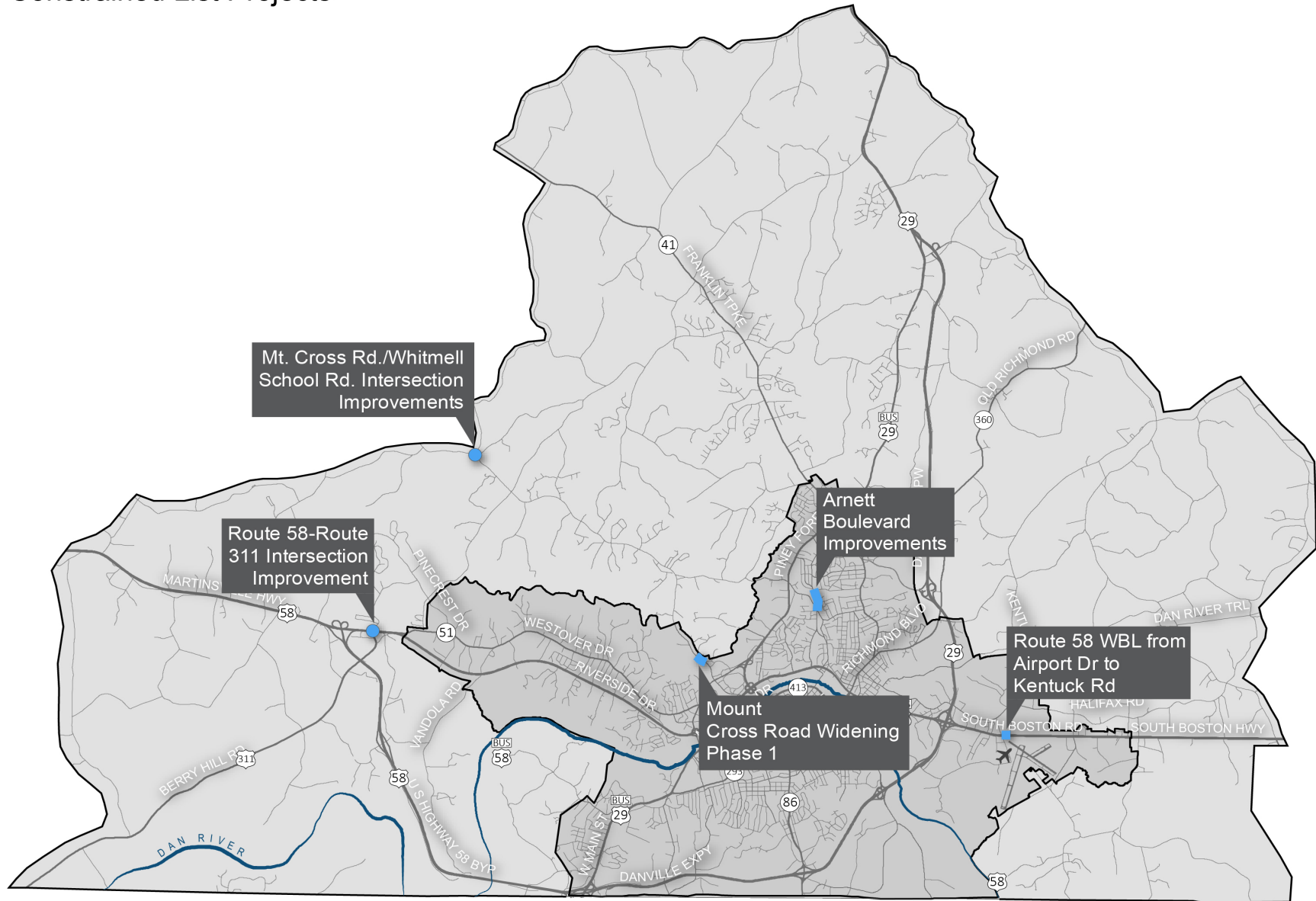
## 2045 Vision List

The Vision List is an unconstrained list of projects. Each project in the list was ranked using the project prioritization process discussed in **Chapter VII**. The Vision List provides a prioritized list of projects that can feed into the CLRP for the next update or can be advanced if additional funding becomes available before then. **Table 4** shows the Vision List.

**Table 3** Constrained Long Range Plan project list

Danville 2045 Long Range Transportation Plan   DRAFT Constrained List									
ROUTE	JURISDICTION	Name	DESCRIPTION	Estimated Cost	Previous Spending	FY20	FY21-25	Remaining Balance	
58	Danville	Route 58-Route 311 Intersection Improvement	Upgrade the intersection of Berry Hill Road (Route 311) and US Route 58 Business to enable the roadway network to accommodate traffic for the nearby Berry Hill Industrial Park.	\$ 3,330,611	\$ 952,018	\$ 1,741,434	\$ 700,000	\$ -	
58	Danville	Route 58 WBL from Airport Dr to Kentuck Rd	This work includes the addition of a third lane on Route 58 (South Boston Road) west bound. The work includes grading, asphalt paving, curb & gutter, storm drainage, traffic signal relocation, signage and commercial entrances.	\$ 3,453,896	\$ -	\$ -	\$ 3,453,896	\$ -	
750	Pittsylvania County	Mt. Cross Rd./Whitmell School Rd. Intersection Improvements	The project involves safety improvements at the intersection of Mt Cross Rd (Rt 750/Rt 844) and Whitmell School Rd (Rt 750) to include the construction of a right-turn lane along WB Mt Cross Rd and implementation of access management strategies.	\$ 1,083,903	\$ -	\$ 158,850	\$ 925,053	\$ -	
0	Danville	Mount Cross Road Widening Phase 1	Improve and widen Mount Cross Road by widening the existing 3-lane curb-and-gutter road from Old Mt. Cross Road to Parker Road to 4-lane with median and improving 5-lane roadway section with two-way left turn lane.	\$ 6,513,411	\$ 6,513,411	\$ -	\$ -	\$ -	
9999	Danville	Arnett Boulevard Improvements	Arnett Boulevard Improvements to address pedestrian and cyclist traffic and lack of safe route to GLH Johnson Elementary School issues	\$ 500,588	\$ -	\$ 50,000	\$ 450,588	\$ -	

# Constrained List Projects



DANVILLE METROPOLITAN PLANNING AREA



Table 4 Vision List projects

Danville 2045 Long Range Transportation Plan   Vision List Projects							
No.	Locality	Road Name	From	To	Project Description	Cost	Priority Ranking
42	City of Danville	Riverside Dr	Mount Cross Rd (Rt 750)	Piney Forest Dr	Construct sidewalks, realign ramp, pedestrian safety features	\$ 3,442,260	1
I-21	City of Danville	Piney Forest Rd	North Main St (Rt 293)	-	Intersection improvements and alternative design considerations	\$ 3,400,000	2
19	City of Danville	South Boston Rd	Danville Expressway (Rt 29)	ECL Danville	Safety and access management	\$ 8,500,000	3
44	City of Danville	Riverside Dr	Audubon Dr	Arnett Blvd	RCUT, construct new sidewalks, median opening modifications, access management	\$ 5,041,000	4
I-15	City of Danville	Piney Forest Road and Central Boulevard (US 29 Bus.) – Piney Forest Road to Parker Road	Parker Rd (Rt 1529)	-	Intersection and circulation improvements	\$ 12,400,000	5
I-3	City of Danville	Kentuck Rd	Halifax Rd (Rt 655)	-	Construction of single lane roundabout	\$ 3,500,000	6
41	City of Danville	Riverside Dr	Westover Dr (Rt 51)	Mount Cross Rd (Rt 750)	RCUT, construct new sidewalks, median opening modifications, access management	\$ 15,653,000	7
40	City of Danville	Riverside Dr	Park Avenue	Westover Dr (Rt 51)	Two RCUTS, construct sidewalks, access management	\$ 10,272,000	8
13	Both Localities	Riverside Dr	Westover Dr (Rt 51)	Parkway Dr	Install right turn lanes, extend left turn lanes	\$ 2,400,000	9
I-1	Pittsylvania County	Moorefield Bridge Rd	Mount Cross Rd (Rt 750)	-	Intersection improvements and alternative design considerations	\$ 2,400,000	10
14	City of Danville	Riverside Dr	Parkway Dr	Church Ave	Extend turn lanes, median closure, install turn lane	\$ 2,700,000	11
I-4	Pittsylvania County	Kentuck Rd	Eagle Springs Rd (Rt 730)	-	Remove northbound channelization; install right turn lanes	\$ 1,100,000	12
I-7	Pittsylvania County	Berry Hill Rd	Vandola Church Rd (Rt 872)	-	Construct new intersection	\$ 1,800,000	13
20	Both Localities	South Boston Rd	ECL Danville	Ringgold Depot Rd (Rt 726)	Safety and access management	\$ 6,500,000	14
43	City of Danville	Riverside Dr	Piney Forest Rd	Audubon Dr	Median opening modifications, construct sidewalks, access management	\$ 16,013,000	15
I-11	City of Danville	Danville Expressway	US 29 Business	-	Create park and ride location for future I-785 corridor	\$ 3,500,000	16
I-5	Pittsylvania County	Kentuck Rd	Little Creek Rd/Fall Creek Rd (Rt 732)	-	Intersection improvements and alternative design considerations	\$ 4,700,000	17
28	City of Danville	South Boston Rd	Danville Expressway (Rt 29)	Kentuck Rd (Rt 729)	Widen to six lanes	\$ 33,503,021	18
I-12	City of Danville	Mount Cross Rd	Dimon Dr	-	Construct roundabout, add pedestrian features/sidewalks	\$ 7,392,448	19
2	City of Danville	Mount Cross Rd	Dimon Dr.	Danville City Limits	Improvement Phase II: Improved alignment; additional capacity	\$ 16,000,000	20
45	City of Danville	Riverside Dr	Arnett Blvd	Main St	Median opening modifications, construct sidewalks, access management	\$ 12,611,000	21
I-9	Pittsylvania County	US 29 Business	Malmaison Rd (Rt 726)	-	Short-term: Reconfigure WB approach	\$ 442,900	22
I-2	City of Danville	Moorefield Bridge Rd	Westover Dr (Rt 51)	-	Addition of southbound left turn lane	\$ 700,000	23
12	Pittsylvania County	US 29	Dry Fork Rd/Snakepath Rd (Rt 718)	Malmaison Rd (Rt 726)	Modify median openings, install turn lanes, extend turn lanes	\$ 21,800,000	24
I-18	Pittsylvania County	Martinsville Hwy	Berry Hill Rd (Rt 311)	-	Add eastbound and northbound turn lanes; modify signal	\$ 3,800,000	25
17	City of Danville	Piney Forest Rd	Audubon Dr	Beaver Mill Rd (Rt 724)	Intersection and circulation improvements	\$ 23,300,000	26



Danville 2045 Long Range Transportation Plan | Vision List Projects

No.	Locality	Road Name	From	To	Project Description	Cost	Priority Ranking
39	Pittsylvania County	US 29	E Witt Rd	Dry Fork Rd	Modify median openings, install turn lanes, extend turn lanes	\$ 19,080,000	27
I-22	City of Danville	Riverside Dr	Cambridge Rd	-	Restricted Crossing U-Turn	\$ 7,003,000	28
51	City of Danville	Riverside Dr	Avalon Dr	Kayewood Ln	Restricted crossing u-turns, access management	\$ 9,450,000	29
I-27	Pittsylvania County	US Route 29	Lawless Creek Road	-	Long term: roundabout	\$ 4,604,100	30
I-10	Pittsylvania County	US 29	Toy Ln	-	Access management with potential intersection redesign	\$ 7,000,000	31
I-23	City of Danville	Riverside Dr	James St	-	Restricted Crossing U-Turn	\$ 7,767,000	32
32	Both Localities	Kentuck Rd	South Boston Rd (Rt 58)	Eagle Springs Rd (Rt 730)	Widen to four lanes	\$ 34,778,222	33
I-26	Pittsylvania County	US Route 29	Malmaison Rd (Rt 726)	-	Short term: Restricted Crossing U-Turn	\$ 6,449,300	34
I-16	Pittsylvania County	Danville Expressway	Oak Ridge Farms Rd (Rt 1260)	-	Interchange improvements	\$ 17,000,000	35
I-17	City of Danville	Central Blvd	Riverside Dr (US 58 Bus)	-	Reconstruct Interchange	\$ 98,000,000	36
I-24	City of Danville	Riverside Dr	Barrett St	-	Restricted Crossing U-Turn	\$ 10,242,000	37
1	Pittsylvania County	Moorefield Bridge Rd	River Ridge Rd/Pinecrest Dr (Rt 873)	Red Bud Ln	Add shoulders; Install chevron warnings	\$ 3,300,000	38
9	Pittsylvania County	Martinsville Hwy	Long Circle Rd east (Rt 708)	Grays Park Rd west	Median modifications, median closures, install turn lanes	\$ 35,100,000	39
I-20	City of Danville	Central Blvd	Memorial Dr (Rt 413)	-	Improve alignment of southbound to westbound ramp	\$ 19,000,000	40
I-25	Pittsylvania County	US 29 Business	Malmaison Rd (Rt 726)	-	Long term: roundabout	\$ 4,624,700	41
15	City of Danville	Riverside Dr	Church Ave	Radio Ln	Modify median openings, install turn lanes, extend turn lanes	\$ 11,150,000	42
53	City of Danville	River St	Main St	Old Halifax Rd	Raise the road to reduce flooding potential, straighten the alignment, and improve horizontal clearance under the railroad bridge	\$ 35,000,000	43
52	Pittsylvania County	Kentuck Rd	Eagle Springs Rd (Rt 730)	0.46 miles north	Widen existing lanes, add shoulders and add turn lanes at intersection with Ringgold Dr	\$ 7,428,972	44
I-28	City of Danville	Goodyear Blvd	Pumpkin Creek	-	Bridge replacement	\$ 20,000,000	45
18	Pittsylvania County	VA 41 Extension	0.4 miles west of Kentuck Rd (Rt 729)	Danville Expressway (Rt 29)	Construct roadway on new alignment	\$ 32,000,000	46
I-13	Pittsylvania County	Danville Expressway	Berry Hill Rd (Rt 311)	-	Interchange Proposal	\$ 60,710,000	47
35	City of Danville	Elizabeth St/Edgewood Dr	Danville Expressway (Rt 58/29)	West Main St (Rt 29 Bus)	Improve 2 lane facility	\$ 16,925,401	48
23	Pittsylvania County	Moorefield Bridge Rd	US 58	0.8 mi south of Rt 750	Construct roadway on new alignment	\$ 9,200,000	49
50	Pittsylvania County	Berry Hill Rd	Oak Hill	NC State Line	Geometric improvements on existing 2 lane road	\$ 52,000,000	50
22	Both Localities	Piney Forest Parkway	Mount Cross Rd (Rt 750)	Central Blvd (Rt 29 Bus)	Construct 4-lane parkway on new alignment	\$ 175,000,000	51
24	Both Localities	Mount Cross Pkwy	Rt 863	US 29 Business	Construct 2-lane parkway on new alignment (in 4 lane ROW)	\$ 165,000,000	52
49	Pittsylvania County	Berry Hill Rd	New Connector Rd	Oak Hill	Capacity improvements, 2 new lanes	\$ 54,000,000	53
34	Pittsylvania County	Berry Hill Rd	NC State Line	Martinsville Hwy (Rt 58 Bus)	Improve 2 lane facility	\$ 35,241,932	54
I-19	Pittsylvania County	Countryside Dr	Sandy Creek	-	Replace bridge	\$ 2,400,000	55
26	Pittsylvania County	Old Richmond Rd	CL Danville	Franklin Turnpike (Rt 41 Extension)	Widen to four lanes	\$ 19,700,000	56
36	Pittsylvania County	Robertson Ln/Golf Club Dr	Franklin Turnpike (Rt 41)	0.5 mi south Golf Club Rd (Rt 719)	Construct roadway on new alignment	\$ 17,505,039	57



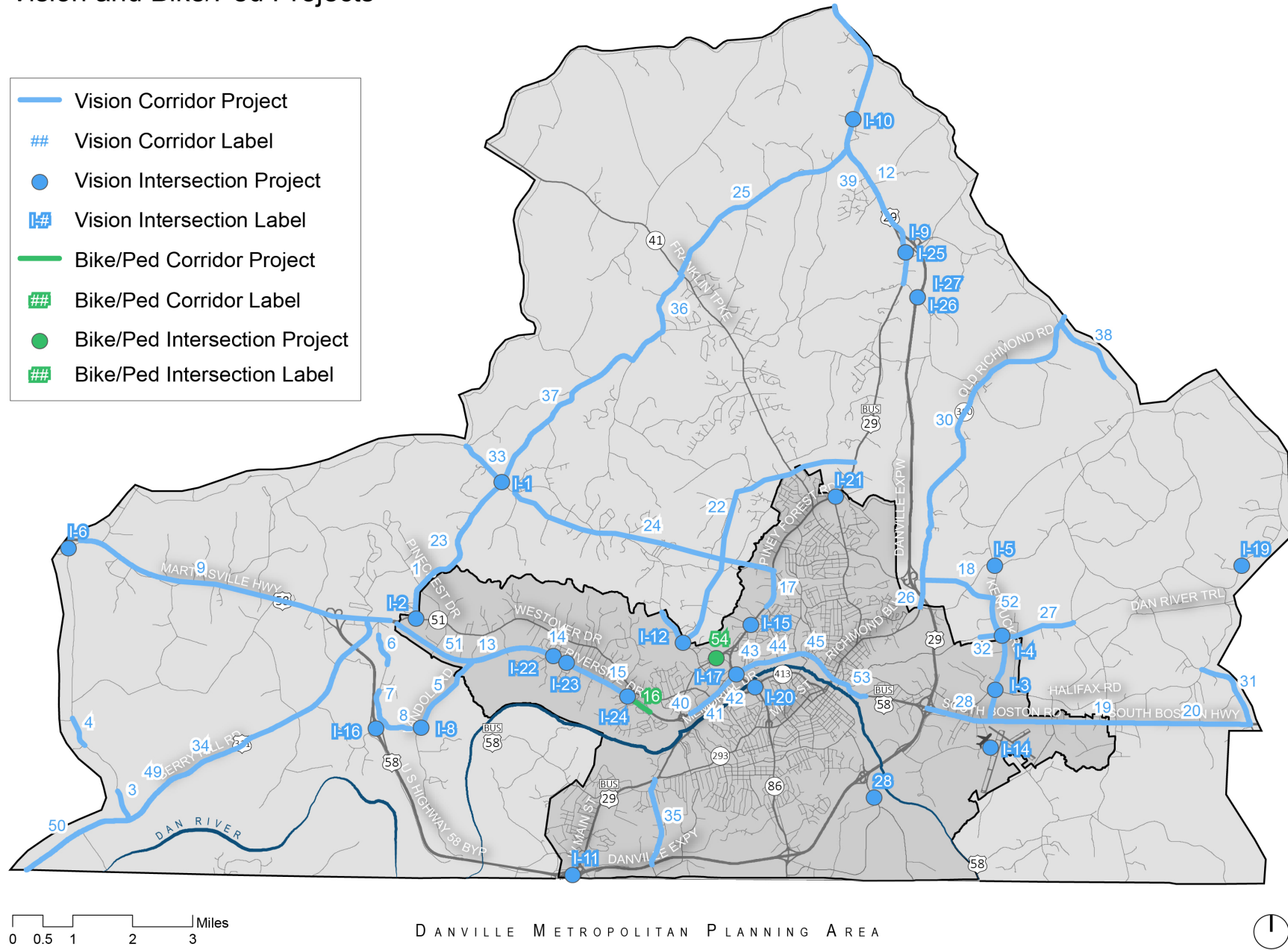
Danville 2045 Long Range Transportation Plan   Vision List Projects							
No.	Locality	Road Name	From	To	Project Description	Cost	Priority Ranking
29	Pittsylvania County	Franklin Turnpike	Golf Club Rd (Rt 719 West)	R and L Smith Rd (Rt 863)	Widen from 2 to 5 lanes	\$ 52,515,116	58
38	Pittsylvania County	Kentuck Church Rd	0.7 mi north Kentuck Rd (Rt 729)	Old Richmond Rd (Rt 360)	Improve 2 lane facility	\$ 27,358,868	59
25	Pittsylvania County	R and L Smith Rd	Franklin Turnpike (Rt 41)	US 29	Improve 2 lane facility	\$ 36,000,000	60
31	Pittsylvania County	Ringgold Depot Rd	South Boston Hwy (Rt 58)	Tom Fork Rd/Shawnee Rd (Rt 655)	Improve 2 lane facility	\$ 14,606,853	61
37	Pittsylvania County	Moorefield Bridge Rd/Laniers Mill Rd	0.8 mi south Mount Cross Rd (Rt 750)	0.5 mi south Golf Club Rd (Rt 719)	Improve 2 lane facility	\$ 42,777,213	62
33	Pittsylvania County	Mount Cross Rd	Moorefield Bridge Rd (Rt 863)	Campview Rd (Rt 883)	Widen to four lanes	\$ 20,866,933	63
I-8	Pittsylvania County	Vandola Rd	Vandola Church Rd (Rt 872)	-	Improve horizontal alignment; improve intersection	\$ 1,750,000	64
27	Pittsylvania County	Barker Rd	Rt 41 Extension	0.1 mi south of railroad tracks on Rt 733	Reconstruct to current two-lane standards; improve intersection at Rt 730	\$ 32,343,747	65
6	Pittsylvania County	Vandola Church Rd	0.2 mi south of Target Dr (F645)	0.2 mi south of Target Dr (F645)	Improve horizontal alignment	\$ 4,000,000	66
7	Pittsylvania County	Vandola Church Rd	Davis Farm Rd	Oak Ridge Farms Rd (Rt 1260)	Improve horizontal alignment	\$ 4,000,000	67
8	Pittsylvania County	Vandola Church Rd	Oak Ridge Farms Rd (Rt 1260)	0.5 mi east of Oak Ridge Farms Rd (Rt 1260)	Improve horizontal alignment	\$ 3,300,000	68
30	Pittsylvania County	Old Richmond Rd	Franklin Turnpike (Rt 41 Extension)	Study area boundary	Improve 2 lane facility	\$ 64,107,856	69

Table 5 Projects requiring elaboration to be prioritized

Danville 2045 Long Range Transportation Plan   Further Evaluation Needed								
No.	Route	Locality	Road Name	From	To	Description	Source Document	Type
I-6	708	Pittsylvania County	Long Circle	Oak Hill Rd (Rt 862)		Improve horizontal alignment; realign existing intersection	SoVA Mega Site at Berry Hill Transportation Update (2017)	Intersection
I-14	989	City of Danville	Airport Rd	Stinson Dr		Geometric Improvements	Danville-Pittsylvania 2040 LRTP (2015)	Intersection
3	862	Pittsylvania County	Oak Hill Rd	Berry Hill Rd (Rt 311)	0.5 mi north of Berry Hill Rd (Rt 311)	Improve horizontal alignment	SoVA Mega Site at Berry Hill Transportation Update (2017)	Corridor
4	862	Pittsylvania County	Oak Hill Rd	Kyle Rd (Rt 962)	Huntington Trail (Rt 621)	Improve horizontal alignment	SoVA Mega Site at Berry Hill Transportation Update (2017)	Corridor
5	870	Both Localities	Vandola Dr	US 58 Bus	Vandola Church Rd (Rt 872)	Improve horizontal alignment	SoVA Mega Site at Berry Hill Transportation Update (2017)	Corridor

Figure 66 Vision List and Bike & Pedestrian List Projects

## Vision and Bike/Ped Projects



## Further Evaluation Needed

Some projects drawn from previous studies lacked enough information to go through the prioritization process. These projects will need to be studied further and elaborated before they can be prioritized and considered for funding. MPO staff can use this list to flesh out projects that are partially developed so that they can be primed for funding with less effort than conducting new studies. **Table 5** lists the projects that require further evaluation.

## Future Studies

Part of the LRTP process entails identifying deficiencies in the transportation network to be studied in the future. The deficiencies listed in **Table 6** were identified using VDOT's PSI location database. PSI locations with a district-wide ranking of 50 or less were included as safety deficiencies. The list allows the MPO to identify safety hotspot areas in the region that have not yet been studied. MPO staff can draw from this list when funding becomes available for future studies.

## Bike and Pedestrian List

**Table 7** shows the exclusively bike and pedestrian projects identified in the 2045 process.

## Transit Projects List

The transit projects listed in **Table 8** were drawn from the Transit Development Plan.

## Rural Projects List

The project list from the Rural Long Range Transportation Plan is included in Appendix L.





Table 6 Deficiencies for future studies

Danville 2045 Long Range Transportation Plan   Safety Deficiencies					
Route	Road Name	From	To	Type	PSI Rank
29 Bus	Piney Forest Rd	Nor-Dan Dr		Intersection	2
	North Main St	Johnstons Body Shop entrance		Intersection	4
29 Bus	Piedmont Dr	Westover Dr	Executive Dr	Segment	4
29 Bus	Piedmont Dr	Westover Dr		Intersection	6
29 Bus	Piney Forest Rd	110' south of Parker Rd	Parked Rd	Segment	9
29 Bus	Piedmont Dr	Mount Cross Rd		Intersection	10
58 Bus	Riverside Dr	800' west of Riverside Dr	Subway sandwich shop	Segment	10
58 Bus	Riverside Dr	Mount Cross Rd		Intersection	11
58 Bus	Riverside Dr	Barter St		Intersection	12
58		Fastenal entrance	Food Lion entrance	Segment	13
29 Bus	Piney Forest Rd	Arnett Blvd		Intersection	14
58 Bus	Riverside Dr	Piedmont Dr NB on ramp	900' east of From location	Segment	16
58	South Boston Rd	29 NB entrance ramp		Segment	19
29 Bus	Central Blvd	190' south of Coleman Market Place entrance	300' north of Coleman Market Place entrance	Segment	20
29 Bus	Piedmont Dr	100' west of Lowes Dr	Bridge over Sandy Creek	Segment	22
86	Central Blvd	Memorial Dr SB off ramp	150' south of Christopher Ln	Segment	23
29 Bus	Piedmont Dr	115' west of Old Mt Cross Rd	100' west of Lowes Dr	Segment	24
58 Bus	Riverside Dr	Old Riverside Dr	Mount Cross Rd	Segment	31
58	South Boston Rd	Cane Creek Pkwy		Intersection	32
	Melrose Ave	Verne Blvd		Intersection	33
58	Martinsville Hwy	Whispering Pines Rd		Intersection	34
58 Bus	Riverside Dr	Piney Forest Rd	Audubon Dr	Segment	39
58 Bus	Riverside Dr	Farrar St	600' east of From location	Segment	40
29 Bus	Central Blvd	300' north of Coleman Market Place entrance	Holt Garrison Pkwy	Segment	42
29 Bus	West Main St	Ol Greensboro Rd	Old Greensboro Rd	Segment	43
51	Westover Dr	Park Ave		Intersection	45
41	Franklin Tpke	Jeanette Dr		Intersection	46
29 Bus	Piedmont Dr	Morris St	Westover Dr	Segment	46
58 Bus	Riverside Dr	Audubon Dr		Intersection	47
51	Westover Dr	Martin Ave	Piedmont Dr	Segment	50

**Table 7** Bike and pedestrian projects

Danville 2045 Long Range Transportation Plan   Bike & Pedestrian Projects									
No.	Route	Road Name	From	To	Description	Source Document	Locality	Cost	
21	-	-	Ringgold	Riverwalk Trail Connector	Multi-purpose multi-modal trail connecting existing trail systems	Danville-Pittsylvania 2040 LRTP (2015)	Both Localities	\$ 17,000,000	
16	58	Riverside Dr	Barrett St	Radio Ln	Addition of bicycle path/multiuse trail in utility easement	US Route 58 (Riverside Dr) Corridor Access Management Plan (2008)	City of Danville	N/A	
54		Piedmont Drive Pedestrian Accessibility Improvements			This project includes the installation of approximately 2.25 miles of sidewalk around a major commercial district to enable pedestrians to travel safely between destinations, and to provide connectivity between area bus stop locations as well as Averett University North Campus.	City of Danville	City of Danville	\$ 18,668,079	

**Table 8** Transit projects

Danville 2045 Long Range Transportation Plan   Transit Projects		
Project	Column1	Description
Bus Installation of Bicycle Racks on Buses	Mid-Term Projects	It is recommended that DT begin installing bicycle racks on buses on select routes to extend the reach of its fixed route service. Commonly referred to as the first mile – last mile in the transit world, providing bicycle racks on buses can extend the range of a transit trip by a mile or more.
Consolidate the Schedules of Duplicative Routes	Mid-Term Projects	Danville Transit operates two North Main Routes (No. 1 and No.4) and two Edgewood-Stokesland Routes (No. 3 and No. 5); where each pair is essentially the same. The North Main and the Edgewood-Stokesland Routes both provide 40 minute headways. When referencing the schedule for Route #1 North Main, it appears that the route is on 80 minute headways. There is only a small note referencing Route #4 North Main on a later page. The same holds true for the Edgewood-Stokesland Routes. Combining the two North Main and the two Edgewood-Stokesland Routes would better illustrate the frequency of the routes and prevent the necessity of flipping between two different schedules for service along the same route
Eliminate Duplicative Route Numbers	Mid-Term Projects	This recommendation should be implemented in conjunction with consolidating the schedules of the #1 and #4 North Main and #3 and #5 Edgewood-Stokesland Routes. In this recommendation, DT will renumber the route numbers so that each route will have its own unique number. Routes currently share numbers to indicate which routes are interlined.
Install New and Improve Existing Bus Stop Amenities	Vision Projects	Danville Transit’s bus stop amenities program currently maintains bus stop signs, shelters, benches and trash receptacles at dozens of high activity stops. This project focuses on installing new amenities throughout the system and improving those that currently exist as funds become available.
Re-Evaluate Feasibility for Fixed Route Service to the Institute for Advanced Learning and Research	Vision Projects	This recommendation is a component of the previous short-term effort to reduce the Reserve-A-Ride fare for all high school and college students. As previously mentioned, this recommendation specifically targets students needing transportation to the Regional Center for Applied Technology and Training and the Institute for Advanced Learning and Research. This fare reduction will be used as a pilot program to determine the feasibility of establishing regular fixed route service to these locations. After a few years following the implementation of the reduced fare for students, Danville should evaluate the viability of providing fixed route service to these facilities. If there is adequate demand for fixed route service, modifying the #6 Glenwood Route schedule and route may be an option.