



APPENDIX A

Project Score Sheets

Theme	Goals	Weight
Mobility and Accessibility: Provide a transportation system that facilitates the efficient movement of people and goods	Make it Flow, Make it Accessible	20%
Safety: Provide a safe and secure transportation system	Make it Safe	25%
Economy: Retain and increase business and employment opportunities	Promote Vitality, Make it Efficient	25%
Community and Nature: Improve the quality of life and protect the environment	Sustain Quality	15%
Efficiency: Preserve the existing transportation system and promote efficient system management	Make it Function, Coordinate Investments, Balance Priorities	15%
Total		100%

Theme	Performance Factors	Weight Relative to Goal
Mobility and Accessibility: Provide a transportation system that facilitates the efficient movement of people and goods	A. Congestion	37%
	B. Traffic Volume	23%
	C. Freight	20%
	D. Alternative Transportation	20%
	Total	100%
Safety: Provide a safe and secure transportation system	A. Accident Rate	61%
	B. Safety Features	39%
	Total	100%
Economy: Retain and increase business and employment opportunities	A. Economic Development Plans	25%
	B. Commuter Travel	44%
	C. Surrounding Employment Density	31%
	Total	100%
Community and Nature: Improve the quality of life and protect the environment	A. Cultural and Environmental Resources	30%
	B. Corridor Beautification	30%
	C. Right of Way Sufficiency	40%
	Total	100%
Efficiency: Preserve the existing transportation system and promote efficient system management	A. VDOT Functional Roadway Classification	20%
	B. Plan Coordination	38%
	C. Distribution of Benefits	42%
	Total	100%

Map ID	Jurisdiction	Route #	Route Name	From	To	Project Description	Estimated Cost	Benefit Score	Benefit-Cost Rating	Readiness Rating
30	Amherst County	29	South Amherst Highway	Amherst St (Rt 163)	S Coolwell Rd (Rt 604)	Traffic Operations/ Signal Coordination	\$1,625,500	76.73	High	Medium
31	Amherst County	29	South Amherst Highway	Amherst St (Rt 163)	--	Add ramp to complete interchange	\$12,000,000	78.63	High	Low
32	Amherst County	29	Monacan Parkway	Izaak Walton Rd (Rt 663)	--	New access ramps	\$10,000,000	53.20	Low	Low
33	Amherst County	60	Richmond Highway	US 29 Bypass	Rt 606W	2 lane improvements	\$9,349,000	54.05	Medium	Low
34	Amherst County	60	Richmond Highway	Rt 606W	CVMPPO Boundary	2 lane improvements	\$14,904,000	57.81	Low	Low
35	Amherst County	130	Elon Rd	NS Railroad	South Amherst Highway (US 29 Bus)	Widen to four lanes	\$40,556,500	57.28	Low	Low
36	Amherst County	163	South Amherst Highway	River Rd (Rt 685)	US 29 Business	Widen to 4 lanes with bike lane	\$34,153,000	61.30	Medium	Low
37	Amherst County	210	Colony Rd	Rt 163	Rt 1034	2 lane reconstruction with shoulder	\$2,815,000	48.00	Medium	Low
38	Amherst County	622	New Wright Shop Rd	Colony Rd (Rt 210)	Dixie Airport Rd (Rt 677)	Reconstruct 2 lane road	\$19,657,000	53.24	Medium	Low
39	Amherst County	652	Cedar Gate Rd	Rt 657	Rt 675	2 lane reconstruction	\$6,271,000	43.56	Low	Low
40	Amherst County	661	Old Stage Rd	Sweet Briar Ln (Rt 624)	London Ln	2 lane improvements	\$2,849,000	45.83	Low	Low
41	Amherst County	663	Izaak Walton Rd	Glade Rd (Rt 130)	S Coolwell Rd (Rt 604)	Reconstruct 2 lane roadway	\$25,651,000	45.30	Low	Low
42	Amherst County	675	Winesap Rd	Rt 652	Rt 795	Widen pavement to 22 ft	\$17,671,000	42.06	Low	Low
43	Amherst County	677	Dixie Airport Rd	Amelon Rd (Rt 699)	Galts Mill Rd (Rt 622)	Reconstruct 2 lane roadway	\$10,255,500	45.90	Medium	Low
44	Amherst County	682	Woody's Lake Rd	South Amherst Hwy (US 29 Bus)	End	Reconstruct Roadway	\$7,202,500	52.64	Low	Low
45	Amherst County	685	River Rd	NS Railroad	Rt 163	Reconstruct 2 lane roadway	\$21,459,500	48.94	Low	Low
46	Amherst County	685	River Rd	Rt 130	NS Railroad	Reconstruct 2 lane roadway	\$26,877,000	50.45	Low	Low
47	Amherst County	795	Winridge Rd	Rt 130	Rt 675	Reconstruct 2 lane roadway	\$9,429,000	45.46	Low	Low
48	Amherst County	--	(New Road)	South Amherst Highway (US 29 Bus)	Fernwood Dr	New 2 lane connector road	\$6,232,000	47.56	Low	Low
49	Bedford County	221	Forest Rd	Gristmill Dr (Rt 1426)	Graves Mill Rd (Rt 126)	Access Management and Intersection Improvements	\$3,140,000	82.76	High	Medium
50	Bedford County	460	E Lynchburg Salem Turnpike	Goode Rd (Rt 668)	Thomas Jefferson Rd (Rt 811)	Construct paved shoulder and access management	\$8,000,000	64.67	High	Low
51	Bedford County	501	Boonsboro Rd	Winding Creek Ln (Rt 647)	--	Relocate intersection, construct turn lane	\$1,625,500	56.89	Medium	Low
52	Bedford County	621	Cottontown Rd	Hooper Rd (Rt 662)	Hawkins Mill Rd (Rt 660)	Reconstruct 2 lane roadway	\$12,793,000	42.06	Low	Low
53	Bedford County	621	Cottontown Rd	Coffee Rd (Rt 644)	Hooper Rd (Rt 662)	Reconstruct 2 lane roadway	\$28,660,000	43.56	Low	Low
54	Bedford County	622	Waterlick Rd	Thomas Jefferson Rd (Rt 811)	Campbell County Corp Limits	Widen to 4 lanes	\$19,211,500	60.72	Medium	Low
55	Bedford County	622	Everett Rd	Kensington Pkwy	Gladden Cir (Rt 646)	Reconstruct 2 lane roadway	\$14,330,000	42.06	Low	Low
56	Bedford County	623	Turkey Foot Rd	Thomas Jefferson Rd (Rt 811)	Campbell County Corp Limits	Widen pavement to 24 ft	\$9,030,000	46.67	Low	Low
57	Bedford County	644	Coffee Rd	Elk Valley Rd (Rt 665N)	Lynchburg Corp Limit	Reconstruct 2 lane roadway	\$45,140,500	45.50	Low	Low
58	Bedford County	659	Hawkins Mill Rd	Old Farm Rd (Rt 660)	Lynchburg Corp Limits	Reconstruct 2 lane roadway	\$9,783,000	45.66	Low	Low
59	Bedford County	663	Perrowville Rd	Quail Ridge Rd (Rt 1431)	Coffee Rd (Rt 644)	Reconstruct 2 lane roadway	\$15,047,000	42.06	Low	Low
60	Bedford County	811	Thomas Jefferson Rd	Forest Rd (Rt 221)	Waterlick Rd (Rt 622)	Widen to 4 lanes	\$34,153,000	59.58	Medium	Low
61	Bedford County	811	Thomas Jefferson Rd	Waterlick Rd (Rt 622)	Great Oak Rd (Rt 704)	Widen to 4 lanes	\$49,095,000	52.11	Low	Low
62	Bedford County	811	Thomas Jefferson Rd	Great Oak Rd (Rt 704)	US 460	Widen to 4 lanes	\$25,615,000	52.11	Medium	Low
63	Campbell County	29	US 29 Southern Bypass (Western Alternative)	S of Rt 24	Richmond Highway (US 460)	New 4 lane limited access facility	\$244,951,000	75.06	Low	Low
64	Campbell County	29	US 29 Southern Bypass (Eastern Alternative)	S of Rt 24	E Lynchburg Salem Turnpike (US 460)	New 4 lane limited access facility	\$363,245,000	75.06	Low	Low
65	Campbell County	29	Wards Rd	Calohan Rd (Rt 685)	City of Lynchburg corp limits	Widen road (rural 6 lane with median)	\$63,784,500	69.92	Medium	Low
66	Campbell County	29	Wards Rd	Colonial Highway (Rt 24)	Calohan Rd (Rt 685)	Widen road (rural 6 lane with median)	\$23,486,000	63.31	Medium	Low
67	Campbell County	29	Wards Rd	S of Calohan Rd (Rt 685)	City of Lynchburg Corp Limits	Access mgmt, traffic ops, safety improvements	\$10,000,000	73.18	High	Medium
68	Campbell County	29	Wards Rd	English Tavern Rd (Rt 738)	Terminal Dr	Access Management	\$16,000,000	82.72	High	Medium
69	Campbell County	460	East Lynchburg Salem Turnpike	Waterlick Rd (Rt 622)	Campbell Ave (Rt 501)	Increase to 6 lanes	\$173,356,000	71.48	Medium	Low
70	Campbell County	460	Timberlake Rd	Waterlick Rd (Rt 622)	--	Median & turn lane improvements, add lanes	\$2,344,000	82.51	High	Medium
71	Campbell County	501	Campbell Highway	Village Rd (Rt 24)	Suburban Rd (Rt 680)	Widen to 4 lanes	\$27,387,500	59.24	Low	Low
72	Campbell County	622	Waterlick Rd	Bedford County Corp Limit	Rainbow Forest Dr (Rt 1520)	Widen to 4 lanes	\$23,480,500	68.26	Medium	Low
73	Campbell County	622	Waterlick Rd	Timberlake Rd (US 460)	Leesville Rd (Rt 682)	Widen to 4 lanes	\$20,889,000	60.94	Medium	Low
74	Campbell County	681	Sunburst Rd	Richmond Highway (US 460)	Waterlick Rd (Rt 622)	Reconstruct 2 lane roadway	\$21,736,000	52.23	Low	Low
75	Campbell County	682	Leesville Rd	City of Lynchburg corp limits	Richmond Highway (US 460)	Widen to 4 lanes	\$41,663,500	51.80	Medium	Low
76	Campbell County	726	Mt. Athos Rd	Richmond Highway (US 460)	Babcock and Wilcox	Upgrade existing 2 lane road	\$13,614,000	53.29	Medium	Low

ID	Jurisdiction	Route #	Route Name	From	To	Project Description	Estimated Cost	Benefit Score	Benefit-Cost Rating	Readiness Rating
77	Campbell County	738	English Tavern Rd	Suburban Rd (Rt 680)	Wards Rd (US 29)	Widen to 24 ft	\$13,376,000	47.16	Medium	Low
78	Campbell County	738	English Tavern Rd	Wards Rd (US 29)	Suburban Rd (Rt 680)	Widen to 24 ft	\$10,032,000	48.65	Medium	Low
79	City of Lynchburg	29	Lynchburg Expressway	Main St/Church St	--	Improve interchange	\$2,700,000	74.71	High	Low
80	City of Lynchburg	29	Lynchburg Expressway	Miller St/Robbin Rd	--	Improve interchange	\$200,000	74.66	High	Medium
81	City of Lynchburg	29	Lynchburg Expressway	Kemper St/ Campbell Ave	--	Improve interchange	\$14,900,000	76.21	High	Low
82	City of Lynchburg	29	Lynchburg Expressway	James St/Stadium Rd	--	Improve interchange	\$12,220,000	76.21	High	Low
83	City of Lynchburg	29	Lynchburg Expressway	Odd Fellows Rd	--	Improve interchange	\$7,320,000	83.67	High	Low
84	City of Lynchburg	29/501	Lynchburg Expressway	Candlers Mountain Rd (Rt 501)	--	Improve interchange	\$16,220,000	92.71	High	Low
85	City of Lynchburg	163	5th St	Jackson St	Taylor St	Streetscape improvements	\$2,000,000	55.47	High	Low
86	City of Lynchburg	163	5th St	Taylor St	NS Railway Bridge	Reconstruct road and ped, add streetscape	\$2,000,000	61.23	High	Low
87	City of Lynchburg	163	Memorial Ave	NS Railway	Langhorne Ave	Reconstruct road and ped, add streetscape	\$2,000,000	68.89	High	Low
88	City of Lynchburg	221	Lakeside Dr	Lynchburg Expressway (Rt 501)	Forest Brook Rd	Widen to 4 lanes	\$19,211,175	80.09	Medium	Low
89	City of Lynchburg	460/29	Richmond Highway	Campbell Ave (Rt 501)	Monacan Parkway (US 29)	Widen to 6 lane limited access highway	\$39,927,900	82.70	Medium	Low
90	City of Lynchburg	501	Lynchburg Expressway	S of Rt 221	Northwest Expressway (Rt 501)	New 4 lane road (One way pairs)	\$37,383,000	93.26	High	High
91	City of Lynchburg	501	Candlers Mountain Rd	Richmond Highway (US 460)	Lynchburg Expressway (US 29)	Widen to 6 lanes	\$23,068,000	89.37	High	Low
92	City of Lynchburg	501	Northwest Expressway	Old Forest Rd	Wiggington Rd (Rt 620)	Widen to 4 lanes	\$27,652,950	70.49	High	Low
93	City of Lynchburg	501	Campbell Ave	Edmunds St	Florida Ave	Roundabouts, Road Diet, Rail to Trail	\$6,100,000	66.83	High	Low
94	City of Lynchburg	670	Candlers Mountain Rd	Mayflower Dr (Rt 128)	Richmond Highway (US 460)	Widen to 4 lanes	\$17,283,000	68.86	Medium	Low
95	City of Lynchburg	--	Downtown Streets	--	--	Implement downtown complete streets	\$50,000,000	72.79	Medium	Low
96	City of Lynchburg	--	Odd Fellows Rd	Richmond Hwy (US 460)	Lynchburg Expressway (US 29)	Roundabouts, bridge replacement, corridor balance	\$13,000,000	63.91	Medium	Low
97	City of Lynchburg	--	Wards Ferry Rd	Harvard St.	--	Construct Roundabout	\$1,100,000	61.15	High	Low
98	City of Lynchburg	--	Wards Ferry Rd	Atlanta Ave	--	Add turn lanes	\$495,000	53.42	High	Low
99	City of Lynchburg	--	New Road	Campbell Ave (Rt 501)	Odd Fellows Rd	Construct new roadway	\$10,000,000	53.56	Low	Low

Project Number	30	Category	Access Management and Safety	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	South Amherst Highway	29	Amherst St (Rt 163)	S Coolwell Rd (Rt 604)	3.7
Proposed Improvement		Traffic Operations/ Signal Coordination		Est. Cost	\$1,625,500
Capacity/ Traffic Ops	Improves Traffic Ops	Safety Priority	Secondary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	76.7	Project Benefit-Cost Rating	High	Project Readiness Rating	Medium

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.86	Medium	66.7	37%	24.7
Traffic Volume	2040 Weighted Traffic Flow: 470 vph	High	100	23%	23.0
Freight	Truck Volume: 3.32%	Medium	66.7	20%	13.3
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					67.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 56.8 accidents per mile	High	100	61%	61.0
Safety Features	Improves traffic operations	Medium	66.7	39%	26.0
Total Safety Score					87.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Improves corridor of statewide significance	Medium	66.7	25%	16.7
Commuter Travel	Primary commuter corridor with congestion	High	100	44%	44.0
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					81.4

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 13	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					80.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Other Principle Arterial	High	100	20%	20.0
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Amherst County, City of Lynchburg	Medium	66.7	42%	28.0
Total Operational Efficiency Score					60.7

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	67.7	20%	13.5
		Safety	87.0	25%	21.8
		Economy	81.4	25%	20.3
		Community and Nature	80.0	15%	12.0
		Operational Efficiency	60.7	15%	9.1
Total Project Benefit Score					76.7

Benefit-Cost Calculation	Benefit Score	76.7
	Estimated Cost	\$1,625,500
	Estimated Users	42783
	Benefit-Cost Score	2019.41
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	1
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	2
	Readiness Rating	Medium

Project Number	31	Category	New Roadway		Project List	Vision	
Jurisdiction	Route Name		Route Number	From	To	Length (mi)	
Amherst County	South Amherst Highway		29	Amherst St (Rt 163)	--	0.25	
Proposed Improvement		Add ramp to complete interchange				Est. Cost	\$12,000,000
Capacity/Traffic Ops	Increase Capacity	Safety Priority	Secondary	Modes Served	Auto	Streetscaping	None
Project Benefit Score		78.6	Project Benefit-Cost Rating		High	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.97	Medium	66.7	37%	24.7
Traffic Volume	2040 Weighted Traffic Flow: 493 vph	High	100	23%	23.0
Freight	Truck Volume: 2.23%	Medium	66.7	20%	13.3
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					67.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	Lynchburg District high accident rate location	High	100	61%	61.0
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					87.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Improves corridor of statewide significance	Medium	66.7	25%	16.7
Commuter Travel	Primary commuter corridor with congestion	High	100	44%	44.0
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					81.4

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 13	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					80.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Freeway and Expressway	High	100	20%	20.0
Plan Coordination	VTRANS 2035 Surface Transportation Plan	Medium	66.7	38%	25.3
Distribution of Benefits	Amherst County, City of Lynchburg	Medium	66.7	42%	28.0
Total Operational Efficiency Score					73.4

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	67.7	20%	13.5
		Safety	87.0	25%	21.8
		Economy	81.4	25%	20.3
		Community and Nature	80.0	15%	12.0
		Operational Efficiency	73.4	15%	11.0
Total Project Benefit Score					78.6

Benefit-Cost Calculation	Benefit Score	78.6
	Estimated Cost	\$12,000,000
	Estimated Users	21594
	Benefit-Cost Score	141.49
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	32	Category	New Roadway	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	Monacan Parkway	29	Izaak Walton Rd (Rt 663)	--	0.25
Proposed Improvement		New access ramps		Est. Cost	\$10,000,000
Capacity/ Traffic Ops	Increases capacity	Safety Priority	Secondary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	53.2	Project Benefit-Cost Rating	Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: NA	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: NA	Low	33.3	23%	7.7
Freight	Truck Volume: NA	Low	33.3	20%	6.7
Alternative Transportation	None	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: NA	Low	33.3	61%	20.3
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					46.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Recommended in Region 2000 CEDS	High	100	25%	25.0
Commuter Travel	Primary commuter corridor without congestion	Medium	66.7	44%	29.3
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					64.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 13	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	Low	33.3	40%	13.3
Total Community and Nature Score					53.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Freeway and Expressway	High	100	20%	20.0
Plan Coordination	Included in Amherst County Comprehensive Plan, Region 2000 CEDS	High	100	38%	38.0
Distribution of Benefits	Amherst County	Low	33.3	42%	14.0
Total Operational Efficiency Score					72.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	33.3	20%	6.7
		Safety	46.3	25%	11.6
		Economy	64.7	25%	16.2
		Community and Nature	53.3	15%	8.0
		Operational Efficiency	72.0	15%	10.8
Total Project Benefit Score					53.2

Benefit-Cost Calculation	Benefit Score	53.2
	Estimated Cost	\$10,000,000
	Estimated Users	2000
	Benefit-Cost Score	10.64
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	33	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	Richmond Highway	60	US 29 Bypass	Rt 606W	0.93
Proposed Improvement	2 lane improvements			Est. Cost	\$9,349,000
Capacity/ Traffic Ops	No increase	Safety Priority	Primary	Modes Served	Auto, Bike, Ped
				Streetscaping	Secondary
Project Benefit Score	54.1	Project Benefit-Cost Rating	Medium	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.66	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 129 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 8.64%	High	100	20%	20.0
Alternative Transportation	Adds bike lanes, sidewalks	High	100	20%	20.0
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 8.6 accidents per mile	Low	33.3	61%	20.3
Safety Features	Primary: Separates modes of travel	High	100	39%	39.0
Total Safety Score					59.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 11	Medium	66.7	30%	20.0
Corridor Beautification	Includes sidewalk space	Medium	66.7	30%	20.0
Right of Way Sufficiency	Minor additional ROW needed	Medium	66.7	40%	26.7
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Other Principle Arterial	High	100	20%	20.0
Plan Coordination	VTRANS 2035 Surface Transportation Plan	Medium	66.7	38%	25.3
Distribution of Benefits	Amherst County	Low	33.3	42%	14.0
Total Operational Efficiency Score					59.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	60.0	20%	12.0
		Safety	59.3	25%	14.8
		Economy	33.3	25%	8.3
		Community and Nature	66.7	15%	10.0
		Operational Efficiency	59.3	15%	8.9
Total Project Benefit Score					54.1

Benefit-Cost Calculation	Benefit Score	54.1
	Estimated Cost	\$9,349,000
	Estimated Users	6343
	Benefit-Cost Score	36.67
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	34	Category	Roadway Reconstruction		Project List	Vision	
Jurisdiction	Route Name		Route Number	From	To		Length (mi)
Amherst County	Richmond Highway		60	Rt 606W	CVMPO Boundary		2.08
Proposed Improvement		2 lane improvements				Est. Cost	\$14,904,000
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto	Streetscaping	None
Project Benefit Score		57.8	Project Benefit-Cost Rating		Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.18	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 84 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 8.64%	High	100	20%	20.0
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					46.6

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	Lynchburg District High Accident Rate Location	High	100	61%	61.0
Safety Features	Secondary Priority: General Design	Med	66.7	39%	26.0
Total Safety Score					87.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 11	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					70.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Rural Minor Arterial	Medium	66.7	20%	13.3
Plan Coordination	VTRANS 2035 Surface Transportation Plan	Medium	66.7	38%	25.3
Distribution of Benefits	Amherst County	Low	33.3	42%	14.0
Total Operational Efficiency Score					52.7

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	46.6	20%	9.3
		Safety	87.0	25%	21.8
		Economy	33.3	25%	8.3
		Community and Nature	70.0	15%	10.5
		Operational Efficiency	52.7	15%	7.9
Total Project Benefit Score					57.8

Benefit-Cost Calculation	Benefit Score	57.8
	Estimated Cost	\$14,904,000
	Estimated Users	4008
	Benefit-Cost Score	15.55
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	35	Category	Roadway Capacity Expansion	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	Elon Rd	130	NS Railroad	South Amherst Highway (US 29 Bus)	1.9
Proposed Improvement	Widen to four lanes			Est. Cost	\$40,556,500
Capacity/Traffic Ops	Increases capacity	Safety Priority	Primary	Modes Served	Auto, Bike, Ped
				Streetscaping	Secondary
Project Benefit Score	57.3	Project Benefit-Cost Rating	Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.53	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 186 vph	Medium	66.7	23%	15.3
Freight	Truck Volume: 8.52%	High	100	20%	20.0
Alternative Transportation	Includes bike lanes, sidewalks	High	100	20%	20.0
Total Mobility and Accessibility Score					67.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 10.5 accidents per mile	Medium	66.7	61%	40.7
Safety Features	Separates modes of travel	High	100	39%	39.0
Total Safety Score					79.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 14	High	100	30%	30.0
Corridor Beautification	Includes sidewalk space	Medium	66.7	30%	20.0
Right of Way Sufficiency	Significant additional ROW needed	Low	33.3	40%	13.3
Total Community and Nature Score					63.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Minor Arterial	Medium	66.7	20%	13.3
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Amherst County	Low	33.3	42%	14.0
Total Operational Efficiency Score					40.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	67.7	20%	13.5
		Safety	79.7	25%	19.9
		Economy	33.3	25%	8.3
		Community and Nature	63.3	15%	9.5
		Operational Efficiency	40.0	15%	6.0
Total Project Benefit Score					57.3

Benefit-Cost Calculation	Benefit Score	57.3
	Estimated Cost	\$40,556,500
	Estimated Users	8934
	Benefit-Cost Score	12.62
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	36	Category	Roadway Capacity Expansion	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	South Amherst Highway	163	River Rd (Rt 685)	US 29 Business	1.6
Proposed Improvement		Widen to 4 lanes with bike lane		Est. Cost	\$34,153,000
Capacity/ Traffic Ops	Increases capacity	Safety Priority	Primary	Modes Served	Auto, Bike, Ped
				Streetscaping	Secondary
Project Benefit Score	61.3	Project Benefit-Cost Rating	Medium	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.89	Medium	66.7	37%	24.7
Traffic Volume	2040 Weighted Traffic Flow: 477 vph	High	100	23%	23.0
Freight	Truck Volume: 1.05%	Low	33.3	20%	6.7
Alternative Transportation	Adds bike lanes, sidewalks	High	100	20%	20.0
Total Mobility and Accessibility Score					74.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 18.1 accidents per mile	Medium	66.7	61%	40.7
Safety Features	Separates modes of travel	High	100	39%	39.0
Total Safety Score					79.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					43.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 7	Low	33.3	30%	10.0
Corridor Beautification	Secondary: Includes sidewalks	Medium	66.7	30%	20.0
Right of Way Sufficiency	Significant additional ROW needed	Low	33.3	40%	13.3
Total Community and Nature Score					43.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Other Principle Arterial	High	100	20%	20.0
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Amherst County, City of Lynchburg	Medium	66.7	42%	28.0
Total Operational Efficiency Score					60.7

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	74.3	20%	14.9
		Safety	79.7	25%	19.9
		Economy	43.7	25%	10.9
		Community and Nature	43.3	15%	6.5
		Operational Efficiency	60.7	15%	9.1
Total Project Benefit Score					61.3

Benefit-Cost Calculation	Benefit Score	61.3
	Estimated Cost	\$34,153,000
	Estimated Users	21544
	Benefit-Cost Score	38.67
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	37	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	Colony Rd	210	Rt 163	Rt 1034	0.3
Proposed Improvement	2 lane reconstruction with shoulder			Est. Cost	\$2,815,000
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	48.0	Project Benefit-Cost Rating	Medium	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.13	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 24 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 3.79%	Medium	66.7	20%	13.3
Alternative Transportation	No facilities included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					40.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 3.3 accidents per mile	Low	33.3	61%	20.3
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					46.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 13	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					80.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Minor Arterial	Medium	66.7	20%	13.3
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Amherst County	Medium	66.7	42%	28.0
Total Operational Efficiency Score					54.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	40.0	20%	8.0
		Safety	46.3	25%	11.6
		Economy	33.3	25%	8.3
		Community and Nature	80.0	15%	12.0
		Operational Efficiency	54.0	15%	8.1
Total Project Benefit Score					48.0

Benefit-Cost Calculation	Benefit Score	48.0
	Estimated Cost	\$2,815,000
	Estimated Users	1144
	Benefit-Cost Score	19.51
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	38	Category	Roadway Reconstruction		Project List	Vision		
Jurisdiction	Route Name		Route Number	From	To	Length (mi)		
Amherst County	New Wright Shop Rd		622	Colony Rd (Rt 210)	Dixie Airport Rd (Rt 677)	2.3		
Proposed Improvement		Reconstruct 2 lane road			Est. Cost	\$19,657,000		
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto	Streetscaping	None	
Project Benefit Score		53.2	Project Benefit-Cost Rating		Medium	Project Readiness Rating		Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.52	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 129 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 1.46%	Low	33.3	20%	6.7
Alternative Transportation	Not included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	Lynchburg District high accident rate location	High	100	61%	61.0
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					87.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 11	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					70.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Minor Arterial	Medium	66.7	20%	13.3
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Amherst County	Low	33.3	42%	14.0
Total Operational Efficiency Score					40.0

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	33.3	20%	6.7
	Safety	87.0	25%	21.8
	Economy	33.3	25%	8.3
	Community and Nature	70.0	15%	10.5
	Operational Efficiency	40.0	15%	6.0
Total Project Benefit Score				53.2

Benefit-Cost Calculation	Benefit Score	53.2
	Estimated Cost	\$19,657,000
	Estimated Users	6191
	Benefit-Cost Score	16.77
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	39	Category	Roadway Reconstruction		Project List	Vision		
Jurisdiction	Route Name	Route Number	From	To		Length (mi)		
Amherst County	Cedar Gate Rd	652	Rt 657	Rt 675		1.1		
Proposed Improvement		2 lane reconstruction			Est. Cost	\$6,271,000		
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto	Streetscaping	None	
Project Benefit Score		43.6	Project Benefit-Cost Rating		Low	Project Readiness Rating		Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.09	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 20 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 1.3%	Low	33.3	20%	6.7
Alternative Transportation	No facilities included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 0.9 accidents per mile	Low	33.3	61%	20.3
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					46.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 12	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					80.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Rural Major Collector	Low	33.3	20%	6.7
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Amherst County	Low	33.3	42%	14.0
Total Operational Efficiency Score					33.3

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	33.3	20%	6.7
	Safety	46.3	25%	11.6
	Economy	33.3	25%	8.3
	Community and Nature	80.0	15%	12.0
	Operational Efficiency	33.3	15%	5.0
Total Project Benefit Score				43.6

Benefit-Cost Calculation	Benefit Score	43.6
	Estimated Cost	\$6,271,000
	Estimated Users	982
	Benefit-Cost Score	6.82
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	40	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	Old Stage Rd	661	Sweet Briar Ln (Rt 624)	London Ln	0.5
Proposed Improvement	2 lane improvements			Est. Cost	\$2,849,000
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	45.8	Project Benefit-Cost Rating	Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: NA	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: NA	Low	33.3	23%	7.7
Freight	Truck Volume: NA	Low	33.3	20%	6.7
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 0 accidents per mile	Low	33.3	61%	20.3
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					46.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Recommended by Region 2000 CEDS	High	100	25%	25.0
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					50.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 13	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					80.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Local Road	Low	33.3	20%	6.7
Plan Coordination	Recommended in Region 2000 CEDS,			38%	0.0
Distribution of Benefits	Amherst County	Low	33.3	42%	14.0
Total Operational Efficiency Score					20.6

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	33.3	20%	6.7
	Safety	46.3	25%	11.6
	Economy	50.0	25%	12.5
	Community and Nature	80.0	15%	12.0
	Operational Efficiency	20.6	15%	3.1
Total Project Benefit Score				45.8

Benefit-Cost Calculation	Benefit Score	45.8
	Estimated Cost	\$2,849,000
	Estimated Users	500
	Benefit-Cost Score	8.04
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	41	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	Izaak Walton Rd	663	Glade Rd (Rt 130)	S Coolwell Rd (Rt 604)	4.5
Proposed Improvement	Reconstruct 2 lane roadway			Est. Cost	\$25,651,000
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	45.3	Project Benefit-Cost Rating	Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.21	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 54 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 3.16%	Medium	66.7	20%	13.3
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					40.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 3.6 accidents per mile	Low	33.3	61%	20.3
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					46.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 11	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					70.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Rural Major Collector	Low	33.3	20%	6.7
Plan Coordination	Recommended in Amherst County Comp Plan	Medium	66.7	38%	25.3
Distribution of Benefits	Amherst County	Low	33.3	42%	14.0
Total Operational Efficiency Score					46.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	40.0	20%	8.0
		Safety	46.3	25%	11.6
		Economy	33.3	25%	8.3
		Community and Nature	70.0	15%	10.5
		Operational Efficiency	46.0	15%	6.9
Total Project Benefit Score					45.3

Benefit-Cost Calculation	Benefit Score	45.3
	Estimated Cost	\$25,651,000
	Estimated Users	2594
	Benefit-Cost Score	4.58
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	42	Category	Roadway Reconstruction		Project List	Vision	
Jurisdiction	Route Name		Route Number	From	To		Length (mi)
Amherst County	Winesap Rd		675	Rt 652	Rt 795		3.1
Proposed Improvement		Widen pavement to 22 ft				Est. Cost	\$17,671,000
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto	Streetscaping	None
Project Benefit Score		42.1	Project Benefit-Cost Rating		Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.02	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 4 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 0.49%	Low	33.3	20%	6.7
Alternative Transportation	Not included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 1.6 accidents per mile	Low	33.3	61%	20.3
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					46.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 8	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					70.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Rural Major Collector	Low	33.3	20%	6.7
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Amherst County	Low	33.3	42%	14.0
Total Operational Efficiency Score					33.3

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	33.3	20%	6.7
	Safety	46.3	25%	11.6
	Economy	33.3	25%	8.3
	Community and Nature	70.0	15%	10.5
	Operational Efficiency	33.3	15%	5.0
Total Project Benefit Score				42.1

Benefit-Cost Calculation	Benefit Score	42.1
	Estimated Cost	\$17,671,000
	Estimated Users	181
	Benefit-Cost Score	0.43
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	43	Category	Roadway Reconstruction		Project List	Vision	
Jurisdiction	Route Name	Route Number	From	To		Length (mi)	
Amherst County	Dixie Airport Rd	677	Amelon Rd (Rt 699)	Galts Mill Rd (Rt 622)		1.2	
Proposed Improvement		Reconstruct 2 lane roadway			Est. Cost	\$10,255,500	
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto	Streetscaping	None
Project Benefit Score		45.9	Project Benefit-Cost Rating		Medium	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.38	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 85 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 2.29%	Medium	66.7	20%	13.3
Alternative Transportation	Not included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					40.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 8.3 accidents per mile	Low	33.3	61%	20.3
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					46.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 13	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					80.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Minor Arterial	Medium	66.7	20%	13.3
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Amherst County	Low	33.3	42%	14.0
Total Operational Efficiency Score					40.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	40.0	20%	8.0
		Safety	46.3	25%	11.6
		Economy	33.3	25%	8.3
		Community and Nature	80.0	15%	12.0
		Operational Efficiency	40.0	15%	6.0
Total Project Benefit Score					45.9

Benefit-Cost Calculation	Benefit Score	45.9
	Estimated Cost	\$10,255,500
	Estimated Users	4074
	Benefit-Cost Score	18.23
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	44	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	Woody's Lake Rd	682	South Amherst Hwy (US 29 Bus)	End	0.8
Proposed Improvement		Reconstruct Roadway		Est. Cost	\$7,202,500
Capacity/ Traffic Ops	No increase	Safety Priority	Primary	Modes Served	Auto, Ped
				Streetscaping	Secondary
Project Benefit Score	52.6	Project Benefit-Cost Rating	Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: NA	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: NA	Low	33.3	23%	7.7
Freight	Truck Volume: NA	Low	33.3	20%	6.7
Alternative Transportation	Adds sidewalks	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					40.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 8.8 accidents per mile	Low	33.3	61%	20.3
Safety Features	Separates modes of travel	High	100	39%	39.0
Total Safety Score					59.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					43.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 10	Medium	66.7	30%	20.0
Corridor Beautification	Secondary: includes sidewalks	Medium	66.7	30%	20.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					80.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Collector	Low	33.3	20%	6.7
Plan Coordination	Plans: Amherst County Comp Plan	Medium	66.7	38%	25.3
Distribution of Benefits	Amherst County	Low	33.3	42%	14.0
Total Operational Efficiency Score					46.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	40.0	20%	8.0
		Safety	59.3	25%	14.8
		Economy	43.7	25%	10.9
		Community and Nature	80.0	15%	12.0
		Operational Efficiency	46.0	15%	6.9
Total Project Benefit Score					52.6

Benefit-Cost Calculation	Benefit Score	52.6
	Estimated Cost	\$7,202,500
	Estimated Users	1000
	Benefit-Cost Score	7.31
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	45	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	River Rd	685	NS Railroad	Rt 163	2.5
Proposed Improvement	Reconstruct 2 lane roadway			Est. Cost	\$21,459,500
Capacity/ Traffic Ops	No increase	Safety Priority	Primary	Modes Served	Auto, Bike
				Streetscaping	None
Project Benefit Score	48.9	Project Benefit-Cost Rating	Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.36	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 60 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 0.55%	Low	33.3	20%	6.7
Alternative Transportation	Adds bike lanes	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					40.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 1.2 accidents per mile	Low	33.3	61%	20.3
Safety Features	Separates modes of travel	High	100	39%	39.0
Total Safety Score					59.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 7	Low	33.3	30%	10.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					60.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Collector	Low	33.3	20%	6.7
Plan Coordination	Recommended in CVMPO Bike Plan, Amherst County Comp Plan	High	100	38%	38.0
Distribution of Benefits	Amherst County	Low	33.3	42%	14.0
Total Operational Efficiency Score					58.6

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	40.0	20%	8.0
		Safety	59.3	25%	14.8
		Economy	33.3	25%	8.3
		Community and Nature	60.0	15%	9.0
		Operational Efficiency	58.6	15%	8.8
Total Project Benefit Score					48.9

Benefit-Cost Calculation	Benefit Score	48.9
	Estimated Cost	\$21,459,500
	Estimated Users	2883
	Benefit-Cost Score	6.58
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	46	Category	Roadway Reconstruction		Project List	Vision	
Jurisdiction	Route Name		Route Number	From	To		Length (mi)
Amherst County	River Rd		685	Rt 130	NS Railroad		3.8
Proposed Improvement		Reconstruct 2 lane roadway				Est. Cost	\$26,877,000
Capacity/ Traffic Ops	No increase	Safety Priority	Primary	Modes Served	Auto, Bike	Streetscaping	None
Project Benefit Score		50.4	Project Benefit-Cost Rating		Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.18	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 36 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 0.55%	Low	33.3	20%	6.7
Alternative Transportation	Adds bicycle lanes	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					40.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 2.1 accidents per mile	Low	33.3	61%	20.3
Safety Features	Separates modes of travel	High	100	39%	39.0
Total Safety Score					59.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 10	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					70.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Rural Major Collector	Low	33.3	20%	6.7
Plan Coordination	Included in CVMPO Bike Plan, Amherst County Comp Plan	High	100	38%	38.0
Distribution of Benefits	Amherst County	Low	33.3	42%	14.0
Total Operational Efficiency Score					58.6

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	40.0	20%	8.0
		Safety	59.3	25%	14.8
		Economy	33.3	25%	8.3
		Community and Nature	70.0	15%	10.5
		Operational Efficiency	58.6	15%	8.8
Total Project Benefit Score					50.4

Benefit-Cost Calculation	Benefit Score	50.4
	Estimated Cost	\$26,877,000
	Estimated Users	1707
	Benefit-Cost Score	3.20
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	47	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	Winridge Rd	795	Rt 130	Rt 675	1.25
Proposed Improvement	Reconstruct 2 lane roadway			Est. Cost	\$9,429,000
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	45.5	Project Benefit-Cost Rating	Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.26	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 54 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 1.32%	Low	33.3	20%	6.7
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 3.2 accidents per mile	Low	33.3	61%	20.3
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					46.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 12	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					80.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Rural Major Collector	Low	33.3	20%	6.7
Plan Coordination	Recommended in Amherst County Comp Plan	Medium	66.7	38%	25.3
Distribution of Benefits	Amherst County	Low	33.3	42%	14.0
Total Operational Efficiency Score					46.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	33.3	20%	6.7
		Safety	46.3	25%	11.6
		Economy	33.3	25%	8.3
		Community and Nature	80.0	15%	12.0
		Operational Efficiency	46.0	15%	6.9
Total Project Benefit Score					45.5

Benefit-Cost Calculation	Benefit Score	45.5
	Estimated Cost	\$9,429,000
	Estimated Users	2588
	Benefit-Cost Score	12.48
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number		48	Category	New Roadway		Project List		Vision
Jurisdiction	Route Name		Route Number	From		To		Length (mi)
Amherst County	(New Road)		--	South Amherst Highway (US 29 Bus)		Fernwood Dr		0.62
Proposed Improvement		New 2 lane connector road				Est. Cost	\$6,232,000	
Capacity/Traffic Ops	Increases capacity	Safety Priority	Primary	Modes Served	Auto, Bike, Ped		Streetscaping	Secondary
Project Benefit Score		47.6	Project Benefit-Cost Rating		Low	Project Readiness Rating		Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: NA	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: NA	Low	33.3	23%	7.7
Freight	Truck Volume: NA	Low	33.3	20%	6.7
Alternative Transportation	Adds bike lanes, sidewalks	High	100	20%	20.0
Total Mobility and Accessibility Score					46.6

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: NA	Low	33.3	61%	20.3
Safety Features	Separates modes of travel	High	100	39%	39.0
Total Safety Score					59.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Local economic development strategy	Medium	66.7	25%	16.7
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					41.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 11	Medium	66.7	30%	20.0
Corridor Beautification	Includes sidewalk space	Medium	66.7	30%	20.0
Right of Way Sufficiency	Significant additional ROW needed	Low	33.3	40%	13.3
Total Community and Nature Score					53.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Not classified	Low	33.3	20%	6.7
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Amherst County	Low	33.3	42%	14.0
Total Operational Efficiency Score					33.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	46.6	20%	9.3
		Safety	59.3	25%	14.8
		Economy	41.7	25%	10.4
		Community and Nature	53.3	15%	8.0
		Operational Efficiency	33.3	15%	5.0
Total Project Benefit Score					47.6

Benefit-Cost Calculation	Benefit Score	47.6
	Estimated Cost	\$6,232,000
	Estimated Users	1000
	Benefit-Cost Score	7.63
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	49	Category	Access Management and Safety		Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)	
Bedford County	Forest Rd	221	Gristmill Dr (Rt 1426)	Graves Mill Rd (Rt 126)	0.2	
Proposed Improvement		Access Management and Intersection Improvements			Est. Cost	\$3,140,000
Capacity/ Traffic Ops	Improves Traffic Ops	Safety Priority	Primary	Modes Served	Auto	Streetscaping None
Project Benefit Score	82.8	Project Benefit-Cost Rating	High	Project Readiness Rating	Medium	

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 1.10	High	100	37%	37.0
Traffic Volume	2040 Weighted Traffic Flow: 456 vph	High	100	23%	23.0
Freight	Truck Volume: 1.24%	Low	33.3	20%	6.7
Alternative Transportation	None included	Low	66.7	20%	13.3
Total Mobility and Accessibility Score					80.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 170 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Access mgmt and intersection design	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Primary commuter corridor with congestion	High	100	44%	44.0
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					73.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 13	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	66.7	30%	20.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					90.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Minor Arterial	Medium	66.7	20%	13.3
Plan Coordination	Rt 221 Corridor Plan	Medium	66.7	38%	25.3
Distribution of Benefits	Bedford County, City of Lynchburg	Medium	66.7	42%	28.0
Total Operational Efficiency Score					66.7

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	80.0	20%	16.0
		Safety	100.0	25%	25.0
		Economy	73.0	25%	18.3
		Community and Nature	90.0	15%	13.5
		Operational Efficiency	66.7	15%	10.0
		Total Project Benefit Score			82.8

Benefit-Cost Calculation	Benefit Score	82.8
	Estimated Cost	\$3,140,000
	Estimated Users	43743
	Benefit-Cost Score	1152.88
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	1
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	2
	Readiness Rating	Medium

Project Number	50	Category	Access Mgmt and Safety		Project List	Vision		
Jurisdiction	Route Name	Route Number	From	To	Length (mi)			
Bedford County	E Lynchburg Salem Turnpike	460	Goode Rd (Rt 668)	Thomas Jefferson Rd (Rt 811)	2.8			
Proposed Improvement		Construct paved shoulder and access management			Est. Cost	\$6,000,000		
Capacity/ Traffic Ops	Improves Traffic Ops	Safety Priority	Primary	Modes Served	Auto	Streetscaping	None	
Project Benefit Score		64.7	Project Benefit-Cost Rating		High	Project Readiness Rating		Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.38	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 285	Medium	66.7	23%	15.3
Freight	Truck Volume: 10.45%	High	100	20%	20.0
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					54.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 25.4 accidents per mile	Medium	66.7	61%	40.7
Safety Features	Primary: Access mgmt and paved shoulder	High	100	39%	39.0
Total Safety Score					79.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Improves Corridor of Statewide Significance	Medium	66.7	25%	16.7
Commuter Travel	Primary commuter corridor without congestion	Medium	66.7	44%	29.3
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					56.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 10	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					70.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Rural Other Principle Arterial	High	100	20%	20.0
Plan Coordination	Not recommended in other plans			38%	0.0
Distribution of Benefits	Regional corridor	High	100	42%	42.0
Total Operational Efficiency Score					62.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	54.3	20%	10.9
		Safety	79.7	25%	19.9
		Economy	56.3	25%	14.1
		Community and Nature	70.0	15%	10.5
		Operational Efficiency	62.0	15%	9.3
Total Project Benefit Score					64.7

Benefit-Cost Calculation	Benefit Score	64.7
	Estimated Cost	\$6,000,000
	Estimated Users	27398
	Benefit-Cost Score	295.32
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	51	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Bedford County	Boonsboro Rd	501	Winding Creek Ln (Rt 647)	--	0.3
Proposed Improvement		Relocate intersection, construct turn lane		Est. Cost	\$8,000,000
Capacity/ Traffic Ops	No increase	Safety Priority	Primary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	56.9	Project Benefit-Cost Rating	Medium	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.2	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 110 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 3.2%	Medium	66.7	20%	13.3
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					40.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 3 accidents per mile	Low	33.3	61%	20.3
Safety Features	Primary: Intersection Safety Design	High	100	39%	39.0
Total Safety Score					59.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Recommended in Region 2000 CEDS	High	100	25%	25.0
Commuter Travel	Primary commuter corridor without congestion	Medium	66.7	44%	29.3
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					64.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 13	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	Minor additional ROW needed	Medium	66.7	40%	26.7
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Rural Minor Arterial	Medium	66.7	20%	13.3
Plan Coordination	Recommended in Region 2000 CEDS	Medium	66.7	38%	25.3
Distribution of Benefits	Bedford County	Low	33.3	42%	14.0
Total Operational Efficiency Score					52.7

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	40.0	20%	8.0
	Safety	59.3	25%	14.8
	Economy	64.7	25%	16.2
	Community and Nature	66.7	15%	10.0
	Operational Efficiency	52.7	15%	7.9
Total Project Benefit Score				56.9

Benefit-Cost Calculation	Benefit Score	56.9
	Estimated Cost	\$8,000,000
	Estimated Users	6635
	Benefit-Cost Score	47.19
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	52	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Bedford County	Cottontown Rd	621	Hooper Rd (Rt 662)	Hawkins Mill Rd (Rt 660)	1.7
Proposed Improvement		Reconstruct 2 lane roadway		Est. Cost	\$12,793,000
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	42.1	Project Benefit-Cost Rating	Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.34	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 80 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 0.37%	Low	33.3	20%	6.7
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 6.5 accidents per mile	Low	33.3	61%	20.3
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					46.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 8	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					70.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Collector	Low	33.3	20%	6.7
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Bedford County	Low	33.3	42%	14.0
Total Operational Efficiency Score					33.3

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	33.3	20%	6.7
	Safety	46.3	25%	11.6
	Economy	33.3	25%	8.3
	Community and Nature	70.0	15%	10.5
	Operational Efficiency	33.3	15%	5.0
Total Project Benefit Score				42.1

Benefit-Cost Calculation	Benefit Score	42.1
	Estimated Cost	\$12,793,000
	Estimated Users	3819
	Benefit-Cost Score	12.56
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	53	Category	Roadway Reconstruction		Project List	Vision	
Jurisdiction	Route Name		Route Number	From	To		Length (mi)
Bedford County	Cottontown Rd		621	Coffee Rd (Rt 644)	Hooper Rd (Rt 662)		4.0
Proposed Improvement		Reconstruct 2 lane roadway				Est. Cost	\$28,660,000
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto	Streetscaping	None
Project Benefit Score		43.6	Project Benefit-Cost Rating		Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.28	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 68 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 0.37%	Low	33.3	20%	6.7
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 1 accident per mile	Low	33.3	61%	20.3
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					46.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 13	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					80.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Rural Minor Collector	Low	33.3	20%	6.7
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Bedford County	Low	33.3	42%	14.0
Total Operational Efficiency Score					33.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	33.3	20%	6.7
		Safety	46.3	25%	11.6
		Economy	33.3	25%	8.3
		Community and Nature	80.0	15%	12.0
		Operational Efficiency	33.3	15%	5.0
Total Project Benefit Score					43.6

Benefit-Cost Calculation	Benefit Score	43.6
	Estimated Cost	\$28,660,000
	Estimated Users	3286
	Benefit-Cost Score	4.99
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	54	Category	Roadway Capacity Expansion	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Bedford County	Waterlick Rd	622	Thomas Jefferson Rd (Rt 811)	Campbell County Corp Limits	0.9
Proposed Improvement		Widen to 4 lanes		Est. Cost	\$19,211,500
Capacity/Traffic Ops	Increases capacity	Safety Priority	Primary	Modes Served	Auto, Bike, Ped
Project Benefit Score		60.7	Project Benefit-Cost Rating	Medium	Project Readiness Rating
					Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 1.03	Medium	66.7	37%	24.7
Traffic Volume	2040 Weighted Traffic Flow: 311 vph	High	100	23%	23.0
Freight	Truck Volume: 1.96%	Low	33.3	20%	6.7
Alternative Transportation	Adds bike lanes, sidewalks	High	100	20%	20.0
Total Mobility and Accessibility Score					74.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 20 accidents per mile	Medium	66.7	61%	40.7
Safety Features	Primary: separates travel modes	High	100	39%	39.0
Total Safety Score					79.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 13	High	100	30%	30.0
Corridor Beautification	Includes sidewalk area	Medium	66.7	30%	20.0
Right of Way Sufficiency	Significant right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					63.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Minor Arterial	Medium	66.7	20%	13.3
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Bedford County, Campbell County	Medium	66.7	42%	28.0
Total Operational Efficiency Score					54.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	74.3	20%	14.9
		Safety	79.7	25%	19.9
		Economy	33.3	25%	8.3
		Community and Nature	63.3	15%	9.5
		Operational Efficiency	54.0	15%	8.1
Total Project Benefit Score					60.7

Benefit-Cost Calculation	Benefit Score	60.7
	Estimated Cost	\$19,211,500
	Estimated Users	14920
	Benefit-Cost Score	47.15
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	55	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Bedford County	Everett Rd	622	Kensington Pkwy	Gladden Cir (Rt 646)	2.0
Proposed Improvement	Reconstruct 2 lane roadway			Est. Cost	\$14,330,000
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	42.1	Project Benefit-Cost Rating	Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.09	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 25 vph	Low	33.3	23%	7.7
Freight	Truck Volume: NA	Low	33.3	20%	6.7
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 1 accident per mile	Low	33.3	61%	20.3
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					46.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 9	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					70.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Local Road	Low	33.3	20%	6.7
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Bedford County	Low	33.3	42%	14.0
Total Operational Efficiency Score					33.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	33.3	20%	6.7
		Safety	46.3	25%	11.6
		Economy	33.3	25%	8.3
		Community and Nature	70.0	15%	10.5
		Operational Efficiency	33.3	15%	5.0
Total Project Benefit Score					42.1

Benefit-Cost Calculation	Benefit Score	42.1
	Estimated Cost	\$14,330,000
	Estimated Users	900
	Benefit-Cost Score	2.64
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	56	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Bedford County	Turkey Foot Rd	623	Thomas Jefferson Rd (Rt 811)	Campbell County Corp Limits	1.2
Proposed Improvement		Widen pavement to 24 ft		Est. Cost	\$9,030,000
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	46.7	Project Benefit-Cost Rating	Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.15	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 31 vph	Low	33.3	23%	7.7
Freight	Truck Volume: NA	Low	33.3	20%	6.7
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 2.5 accidents per mile	Low	33.3	61%	20.3
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					46.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 14	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					80.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Minor Arterial	Medium	66.7	20%	13.3
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Bedford County, Campbell County	Medium	66.7	42%	28.0
Total Operational Efficiency Score					54.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	33.3	20%	6.7
		Safety	46.3	25%	11.6
		Economy	33.3	25%	8.3
		Community and Nature	80.0	15%	12.0
		Operational Efficiency	54.0	15%	8.1
Total Project Benefit Score					46.7

Benefit-Cost Calculation	Benefit Score	46.7
	Estimated Cost	\$9,030,000
	Estimated Users	1472
	Benefit-Cost Score	7.61
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	57	Category	Roadway Reconstruction		Project List	Vision		
Jurisdiction	Route Name		Route Number	From	To		Length (mi)	
Bedford County	Coffee Rd		644	Elk Valley Rd (Rt 665N)	Lynchburg Corp Limit		6.3	
Proposed Improvement		Reconstruct 2 lane roadway				Est. Cost	\$45,140,500	
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto	Streetscaping	None	
Project Benefit Score		45.5	Project Benefit-Cost Rating		Low	Project Readiness Rating		Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.27	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 69 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 2.29%	Medium	66.7	20%	13.3
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					40.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 1.1 accidents per mile	Low	33.3	61%	20.3
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					46.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 9	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					70.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Rural Major Collector	Low	33.3	20%	6.7
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Bedford County, City of Lynchburg	Medium	66.7	42%	28.0
Total Operational Efficiency Score					47.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	40.0	20%	8.0
		Safety	46.3	25%	11.6
		Economy	33.3	25%	8.3
		Community and Nature	70.0	15%	10.5
		Operational Efficiency	47.3	15%	7.1
Total Project Benefit Score					45.5

Benefit-Cost Calculation	Benefit Score	45.5
	Estimated Cost	\$45,140,500
	Estimated Users	3330
	Benefit-Cost Score	3.36
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	58	Category	Roadway Reconstruction		Project List	Vision		
Jurisdiction	Route Name		Route Number	From	To		Length (mi)	
Bedford County	Hawkins Mill Rd		659	Old Farm Rd (Rt 660)	Lynchburg Corp Limits		1.3	
Proposed Improvement		Reconstruct 2 lane roadway				Est. Cost	\$9,783,000	
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto	Streetscaping	None	
Project Benefit Score		45.7	Project Benefit-Cost Rating		Low	Project Readiness Rating		Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.19	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 44 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 0.67%	Low	33.3	20%	6.7
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 1.5 accidents per mile	Low	33.3	61%	20.3
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					46.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 13	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					80.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Collector	Low	33.3	20%	6.7
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Bedford County, City of Lynchburg	Medium	66.7	42%	28.0
Total Operational Efficiency Score					47.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	33.3	20%	6.7
		Safety	46.3	25%	11.6
		Economy	33.3	25%	8.3
		Community and Nature	80.0	15%	12.0
		Operational Efficiency	47.3	15%	7.1
Total Project Benefit Score					45.7

Benefit-Cost Calculation	Benefit Score	45.7
	Estimated Cost	\$9,783,000
	Estimated Users	2095
	Benefit-Cost Score	9.78
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	59	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Bedford County	Perrowville Rd	663	Quail Ridge Rd (Rt 1431)	Coffee Rd (Rt 644)	2.1
Proposed Improvement		Reconstruct 2 lane roadway		Est. Cost	\$15,047,000
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	42.1	Project Benefit-Cost Rating	Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.26	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 73 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 1.22%	Low	33.3	20%	6.7
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 1.9 accidents per mile	Low	33.3	61%	20.3
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					46.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 10	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					70.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Rural Major Collector	Low	33.3	20%	6.7
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Bedford County	Low	33.3	42%	14.0
Total Operational Efficiency Score					33.3

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	33.3	20%	6.7
	Safety	46.3	25%	11.6
	Economy	33.3	25%	8.3
	Community and Nature	70.0	15%	10.5
	Operational Efficiency	33.3	15%	5.0
Total Project Benefit Score				42.1

Benefit-Cost Calculation	Benefit Score	42.1
	Estimated Cost	\$15,047,000
	Estimated Users	3520
	Benefit-Cost Score	9.84
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number		60	Category	Roadway Capacity Expansion		Project List		Vision
Jurisdiction	Route Name		Route Number	From		To		Length (mi)
Bedford County	Thomas Jefferson Rd		811	Forest Rd (Rt 221)		Waterlick Rd (Rt 622)		1.6
Proposed Improvement		Widen to 4 lanes				Est. Cost	\$34,153,000	
Capacity/Traffic Ops	Increases capacity	Safety Priority	Primary	Modes Served	Auto, Bike, Ped		Streetscaping	Secondary
Project Benefit Score		59.6	Project Benefit-Cost Rating		Medium	Project Readiness Rating		Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 1.24	High	100	37%	37.0
Traffic Volume	2040 Weighted Traffic Flow: 348 vph	High	100	23%	23.0
Freight	Truck Volume: 1.44%	Low	33.3	20%	6.7
Alternative Transportation	Adds bike lanes, sidewalks	High	100	20%	20.0
Total Mobility and Accessibility Score					86.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 26.3 accidents per mile	Medium	66.7	61%	40.7
Safety Features	Primary: Separates travel modes	High	100	39%	39.0
Total Safety Score					79.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 10	Medium	66.7	30%	20.0
Corridor Beautification	Includes sidewalk area	Medium	66.7	30%	20.0
Right of Way Sufficiency	Significant additional right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					53.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Minor Arterial	Medium	66.7	20%	13.3
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Bedford County	Low	33.3	42%	14.0
Total Operational Efficiency Score					40.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	86.7	20%	17.3
		Safety	79.7	25%	19.9
		Economy	33.3	25%	8.3
		Community and Nature	53.3	15%	8.0
		Operational Efficiency	40.0	15%	6.0
Total Project Benefit Score					59.6

Benefit-Cost Calculation	Benefit Score	59.6
	Estimated Cost	\$34,153,000
	Estimated Users	16682
	Benefit-Cost Score	29.10
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number		61	Category	Roadway Capacity Expansion		Project List		Vision
Jurisdiction	Route Name		Route Number	From		To		Length (mi)
Bedford County	Thomas Jefferson Rd		811	Waterlick Rd (Rt 622)		Great Oak Rd (Rt 704)		2.3
Proposed Improvement		Widen to 4 lanes				Est. Cost	\$49,095,000	
Capacity/ Traffic Ops	Increase capacity	Safety Priority	Primary	Modes Served	Auto, Bike, Ped		Streetscaping	Secondary
Project Benefit Score		52.1	Project Benefit-Cost Rating		Low	Project Readiness Rating		Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.72	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 199	Medium	66.7	23%	15.3
Freight	Truck Volume: 1.45%	Low	33.3	20%	6.7
Alternative Transportation	Adds bike lanes, sidewalks	High	100	20%	20.0
Total Mobility and Accessibility Score					54.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 10.4 accidents per mile	Medium	66.7	61%	40.7
Safety Features	Primary: separates travel modes	High	100	39%	39.0
Total Safety Score					79.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 11	Medium	66.7	30%	20.0
Corridor Beautification	Includes sidewalk area	Medium	66.7	30%	20.0
Right of Way Sufficiency	Significant additional right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					53.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Collector	Low	33.3	20%	6.7
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Bedford County	Low	33.3	42%	14.0
Total Operational Efficiency Score					33.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	54.3	20%	10.9
		Safety	79.7	25%	19.9
		Economy	33.3	25%	8.3
		Community and Nature	53.3	15%	8.0
		Operational Efficiency	33.3	15%	5.0
Total Project Benefit Score					52.1

Benefit-Cost Calculation	Benefit Score	52.1
	Estimated Cost	\$49,095,000
	Estimated Users	9575
	Benefit-Cost Score	10.16
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number		62	Category	Roadway Capacity Expansion		Project List		Vision
Jurisdiction	Route Name		Route Number	From		To		Length (mi)
Bedford County	Thomas Jefferson Rd		811	Great Oak Rd (Rt 704)		US 460		1.2
Proposed Improvement		Widen to 4 lanes				Est. Cost	\$25,615,000	
Capacity/ Traffic Ops	Increases capacity	Safety Priority	Primary	Modes Served	Auto, Bike, Ped		Streetscaping	Secondary
Project Benefit Score		52.1	Project Benefit-Cost Rating		Medium	Project Readiness Rating		Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.73	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 206 vph	Medium	66.7	23%	15.3
Freight	Truck Volume: 1.45%	Low	33.3	20%	6.7
Alternative Transportation	Includes bike lanes, sidewalks	High	100	20%	20.0
Total Mobility and Accessibility Score					54.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 10.8 accidents per mile	Medium	66.7	61%	40.7
Safety Features	Primary: separates travel modes	High	100	39%	39.0
Total Safety Score					79.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 11	Medium	66.7	30%	20.0
Corridor Beautification	Includes sidewalk area	Medium	66.7	30%	20.0
Right of Way Sufficiency	Significant additional right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					53.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Rural Major Collector	Low	33.3	20%	6.7
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Bedford County	Low	33.3	42%	14.0
Total Operational Efficiency Score					33.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	54.3	20%	10.9
		Safety	79.7	25%	19.9
		Economy	33.3	25%	8.3
		Community and Nature	53.3	15%	8.0
		Operational Efficiency	33.3	15%	5.0
Total Project Benefit Score					52.1

Benefit-Cost Calculation	Benefit Score	52.1
	Estimated Cost	\$25,615,000
	Estimated Users	9892
	Benefit-Cost Score	20.12
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	63	Category	New Roadway		Project List	Vision	
Jurisdiction	Route Name		Route Number	From	To	Length (mi)	
Campbell County	US 29 Southern Bypass (Western Alternative)		29	S of Rt 24	Richmond Highway (US 460)	4.5	
Proposed Improvement		New 4 lane limited access facility			Est. Cost	\$244,951,000	
Capacity/ Traffic Ops	Increases capacity	Safety Priority	Primary	Modes Served	Auto	Streetscaping	None
Project Benefit Score		75.1	Project Benefit-Cost Rating		Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.51	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 351 vph	High	100	23%	23.0
Freight	Truck Volume: 6.24%	High	100	20%	20.0
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					62.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 32.6 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Limited Access Design	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Region 2000 CEDS recommendation	High	100	25%	25.0
Commuter Travel	Primary commuter corridor without congestion	Medium	66.7	44%	29.3
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					64.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 9	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	Significant additional right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					43.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Freeway and Expressway	High	100	20%	20.0
Plan Coordination	Region 2000 CEDS, VTRANS 2035 Surface Transportation Plan	High	100	38%	38.0
Distribution of Benefits	Regional Corridor	High	100	42%	42.0
Total Operational Efficiency Score					100.0

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	62.0	20%	12.4
	Safety	100.0	25%	25.0
	Economy	64.7	25%	16.2
	Community and Nature	43.3	15%	6.5
	Operational Efficiency	100.0	15%	15.0
Total Project Benefit Score				75.1

Benefit-Cost Calculation	Benefit Score	75.1
	Estimated Cost	\$244,951,000
	Estimated Users	33706
	Benefit-Cost Score	10.33
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	64	Category	New Roadway	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Campbell County	US 29 Southern Bypass (Eastern Alternative)	29	S of Rt 24	E Lynchburg Salem Turnpike (US 460)	10
Proposed Improvement		New 4 lane limited access facility		Est. Cost	\$363,245,000
Capacity/ Traffic Ops	Increases Capacity	Safety Priority	Primary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	75.1	Project Benefit-Cost Rating	Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.51	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 351 vph	High	100	23%	23.0
Freight	Truck Volume: 6.24%	High	100	20%	20.0
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					62.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 32.6 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Limited access design	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Region 2000 CEDS recommendation	High	100	25%	25.0
Commuter Travel	Primary commuter corridor without congestion	Medium	66.7	44%	29.3
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					64.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 8	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	Significant additional right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					43.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Freeway and Expressway	High	100	20%	20.0
Plan Coordination	Region 2000 CEDS, VTRANS 2035 Surface Transportation Plan	High	100	38%	38.0
Distribution of Benefits	Regional Corridor	High	100	42%	42.0
Total Operational Efficiency Score					100.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	62.0	20%	12.4
		Safety	100.0	25%	25.0
		Economy	64.7	25%	16.2
		Community and Nature	43.3	15%	6.5
		Operational Efficiency	100.0	15%	15.0
Total Project Benefit Score					75.1

Benefit-Cost Calculation	Benefit Score	75.1
	Estimated Cost	\$363,245,000
	Estimated Users	33706
	Benefit-Cost Score	6.97
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number		65	Category	Roadway Capacity Expansion		Project List		Vision
Jurisdiction	Route Name		Route Number	From		To		Length (mi)
Campbell County	Wards Rd		29	Calohan Rd (Rt 685)		City of Lynchburg corp limits		4.7
Proposed Improvement		Widen road (rural 6 lane with median)				Est. Cost	\$63,784,500	
Capacity/Traffic Ops	Increases capacity	Safety Priority	Secondary	Modes Served	Auto		Streetscaping	None
Project Benefit Score		69.9	Project Benefit-Cost Rating		Medium	Project Readiness Rating		Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.61	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 396 vph	High	100	23%	23.0
Freight	Truck Volume: 6.24%	High	100	20%	20.0
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					62.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 36.6 accidents per mile	High	100	61%	61.0
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					87.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Virginia Multimodal Freight Study	High	100	25%	25.0
Commuter Travel	Primary commuter corridor without congestion	Medium	66.7	44%	29.3
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					64.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 11	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	Significant additional right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					43.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Other Principle Arterial	High	100	20%	20.0
Plan Coordination	Virginia Multimodal Freight Study	Medium	66.7	38%	25.3
Distribution of Benefits	Regional Corridor	High	100	42%	42.0
Total Operational Efficiency Score					87.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	62.0	20%	12.4
		Safety	87.0	25%	21.8
		Economy	64.7	25%	16.2
		Community and Nature	43.3	15%	6.5
		Operational Efficiency	87.3	15%	13.1
Total Project Benefit Score					69.9

Benefit-Cost Calculation	Benefit Score	69.9
	Estimated Cost	\$63,784,500
	Estimated Users	35638
	Benefit-Cost Score	39.06
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number		66	Category	Roadway Capacity Expansion		Project List		Vision
Jurisdiction	Route Name		Route Number	From		To		Length (mi)
Campbell County	Wards Rd		29	Colonial Highway (Rt 24)		Calohan Rd (Rt 685)		2.1
Proposed Improvement			Widen road (rural 6 lane with median)				Est. Cost	\$23,486,000
Capacity/ Traffic Ops	Increases capacity	Safety Priority	Secondary	Modes Served	Auto		Streetscaping	None
Project Benefit Score		63.3	Project Benefit-Cost Rating		Medium	Project Readiness Rating		Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.34	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 276 vph	Medium	66.7	23%	15.3
Freight	Truck Volume: 6.24%	High	100	20%	20.0
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					54.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 20 accidents per mile	Medium	66.7	61%	40.7
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Virginia Multimodal Freight Study	High	100	25%	25.0
Commuter Travel	Primary commuter corridor without congestion	Medium	66.7	44%	29.3
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					64.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 11	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	Significant additional right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					43.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Rural Other Principle Arterial	High	100	20%	20.0
Plan Coordination	Virginia Multimodal Freight Study	Medium	66.7	38%	25.3
Distribution of Benefits	Regional Corridor	High	100	42%	42.0
Total Operational Efficiency Score					87.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	54.3	20%	10.9
		Safety	66.7	25%	16.7
		Economy	64.7	25%	16.2
		Community and Nature	43.3	15%	6.5
		Operational Efficiency	87.3	15%	13.1
Total Project Benefit Score					63.3

Benefit-Cost Calculation	Benefit Score	63.3
	Estimated Cost	\$23,486,000
	Estimated Users	26507
	Benefit-Cost Score	71.45
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	67	Category	Access Management and Safety		Project List	Vision		
Jurisdiction	Route Name		Route Number	From	To	Length (mi)		
Campbell County	Wards Rd		29	S of Calohan Rd (Rt 685)	City of Lynchburg Corp Limits	4.7		
Proposed Improvement		Access mgmt, traffic ops, safety improvements			Est. Cost	\$10,000,000		
Capacity/ Traffic Ops	Improves traffic ops	Safety Priority	Primary	Modes Served	Auto	Streetscaping	None	
Project Benefit Score		73.2	Project Benefit-Cost Rating		High	Project Readiness Rating		Medium

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.61	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 396 vph	High	100	23%	23.0
Freight	Truck Volume: 6.24%	High	100	20%	20.0
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					62.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 36.6 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Access management and safety	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Corridor of Statewide Significance		66.7	25%	16.7
Commuter Travel	Primary commuter corridor without congestion	Medium	66.7	44%	29.3
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					56.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 11	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					70.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Other Principle Arterial	High	100	20%	20.0
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Regional Corridor	High	100	42%	42.0
Total Operational Efficiency Score					74.7

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	62.0	20%	12.4
		Safety	100.0	25%	25.0
		Economy	56.3	25%	14.1
		Community and Nature	70.0	15%	10.5
		Operational Efficiency	74.7	15%	11.2
Total Project Benefit Score					73.2

Benefit-Cost Calculation	Benefit Score	73.2
	Estimated Cost	\$10,000,000
	Estimated Users	35638
	Benefit-Cost Score	260.80
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	1
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	2
	Readiness Rating	Medium

Project Number	68	Category	Access Management and Safety		Project List	Vision	
Jurisdiction	Route Name	Route Number	From	To		Length (mi)	
Campbell County	Wards Rd	29	English Tavern Rd (Rt 738)	Terminal Dr		1.6	
Proposed Improvement		Access Management			Est. Cost	\$16,000,000	
Capacity/ Traffic Ops	Improves traffic ops	Safety Priority	Primary	Modes Served	Auto	Streetscaping	None
Project Benefit Score		82.7	Project Benefit-Cost Rating		High	Project Readiness Rating	Medium

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.81	Medium	66.7	37%	24.7
Traffic Volume	2040 Weighted Traffic Flow: 480 vph	High	100	23%	23.0
Freight	Truck Volume: 6.24%	High	100	20%	20.0
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					74.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 58.1 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Access Management	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Corridor of Statewide Significance	Medium	66.7	25%	16.7
Commuter Travel	Primary commuter corridor with congestion	High	100	44%	44.0
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					71.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 12	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					80.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Other Principle Arterial	High	100	20%	20.0
Plan Coordination	VTRANS 2035 Surface Transportation Plan	Medium	66.7	38%	25.3
Distribution of Benefits	Regional Corridor	High	100	42%	42.0
Total Operational Efficiency Score					87.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	74.3	20%	14.9
		Safety	100.0	25%	25.0
		Economy	71.0	25%	17.7
		Community and Nature	80.0	15%	12.0
		Operational Efficiency	87.3	15%	13.1
Total Project Benefit Score					82.7

Benefit-Cost Calculation	Benefit Score	82.7
	Estimated Cost	\$16,000,000
	Estimated Users	35638
	Benefit-Cost Score	184.24
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	1
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	2
	Readiness Rating	Medium

Project Number		69	Category	Roadway Capacity Expansion		Project List		Vision	
Jurisdiction	Route Name		Route Number	From		To		Length (mi)	
Campbell County	East Lynchburg Salem Turnpike		460	Waterlick Rd (Rt 622)		Campbell Ave (Rt 501)		7.1	
Proposed Improvement		Increase to 6 lanes					Est. Cost	\$173,356,000	
Capacity/Traffic Ops	Increases capacity	Safety Priority	Secondary	Modes Served	Auto		Streetscaping	None	
Project Benefit Score		71.5	Project Benefit-Cost Rating		Medium	Project Readiness Rating		Low	

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.95	Medium	66.7	37%	24.7
Traffic Volume	2040 Weighted Traffic Flow: 478 vph	High	100	23%	23.0
Freight	Truck Volume: 10.45%	High	100	20%	20.0
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					74.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 19.0 accidents per mile	Medium	66.7	61%	40.7
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Corridor of Statewide Significance	Medium	66.7	25%	16.7
Commuter Travel	Primary commuter corridor with congestion	High	100	44%	44.0
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					81.4

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 10	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	Significant additional right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					43.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Freeway and Expressway	High	100	20%	20.0
Plan Coordination	VTRANS 2035 Surface Transportation Plan	Medium	66.7	38%	25.3
Distribution of Benefits	Regional Corridor	High	100	42%	42.0
Total Operational Efficiency Score					87.3

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	74.3	20%	14.9
	Safety	66.7	25%	16.7
	Economy	81.4	25%	20.3
	Community and Nature	43.3	15%	6.5
	Operational Efficiency	87.3	15%	13.1
Total Project Benefit Score				71.5

Benefit-Cost Calculation	Benefit Score	71.5
	Estimated Cost	\$173,356,000
	Estimated Users	45914
	Benefit-Cost Score	18.93
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	70	Category	Intersection Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Campbell County	Timberlake Rd	460	Waterlick Rd (Rt 622)	--	0.25
Proposed Improvement		Median & turn lane improvements, add lanes		Est. Cost	\$2,344,000
Capacity/ Traffic Ops	Improves traffic ops	Safety Priority	Primary	Modes Served	Auto
				Streetscaping	Secondary
Project Benefit Score	82.5	Project Benefit-Cost Rating	High	Project Readiness Rating	Medium

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 1.21	High	100	37%	37.0
Traffic Volume	2040 Weighted Traffic Flow: 595 vph	High	100	23%	23.0
Freight	Truck Volume: 1.39%	Low	33.3	20%	6.7
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 164 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Intersection Redesign	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Corridor of Statewide Significance	Medium	66.7	25%	16.7
Commuter Travel	Primary commuter corridor with congestion	High	100	44%	44.0
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					81.4

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 14	High	100	30%	30.0
Corridor Beautification	Includes median area	Medium	66.7	30%	20.0
Right of Way Sufficiency	Minor additional ROW needed	Medium	66.7	40%	26.7
Total Community and Nature Score					76.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Other Principle Arterial	High	100	20%	20.0
Plan Coordination	VDOT STARS II	Medium	66.7	38%	25.3
Distribution of Benefits	Campbell County, City of Lynchburg	Medium	66.7	42%	28.0
Total Operational Efficiency Score					73.4

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	73.3	20%	14.7
		Safety	100.0	25%	25.0
		Economy	81.4	25%	20.3
		Community and Nature	76.7	15%	11.5
		Operational Efficiency	73.4	15%	11.0
		Total Project Benefit Score			82.5

Benefit-Cost Calculation	Benefit Score	82.5
	Estimated Cost	\$2,344,000
	Estimated Users	57146
	Benefit-Cost Score	2011.56
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	1
	Right of Way Acquisition	0
	Ongoing Project	1
	Readiness Score	2
	Readiness Rating	Medium

Project Number		71	Category	Roadway Capacity Expansion		Project List		Vision
Jurisdiction	Route Name		Route Number	From		To		Length (mi)
Campbell County	Campbell Highway		501	Village Rd (Rt 24)		Suburban Rd (Rt 680)		2.2
Proposed Improvement		Widen to 4 lanes				Est. Cost	\$27,387,500	
Capacity/ Traffic Ops	Increases capacity	Safety Priority	Secondary	Modes Served	Auto		Streetscaping	None
Project Benefit Score		59.2	Project Benefit-Cost Rating		Low	Project Readiness Rating		Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.29	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 87 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 2.63%	Medium	66.7	20%	13.3
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					40.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 11.4 accidents per mile	Medium	66.7	61%	40.7
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Region 2000 CEDS	High	100	25%	25.0
Commuter Travel	Primary commuter corridor without congestion	Medium	66.7	44%	29.3
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					64.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 9	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	Significant additional right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					43.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Rural Minor Arterial	Medium	66.7	20%	13.3
Plan Coordination	Region 2000 CEDS, VTRANS 2035 Surface Transportation Plan	High	100	38%	38.0
Distribution of Benefits	Campbell County, City of Lynchburg	Medium	66.7	42%	28.0
Total Operational Efficiency Score					79.4

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	40.0	20%	8.0
	Safety	66.7	25%	16.7
	Economy	64.7	25%	16.2
	Community and Nature	43.3	15%	6.5
	Operational Efficiency	79.4	15%	11.9
Total Project Benefit Score				59.2

Benefit-Cost Calculation	Benefit Score	59.2
	Estimated Cost	\$27,387,500
	Estimated Users	4154
	Benefit-Cost Score	8.99
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number		72	Category	Roadway Capacity Expansion		Project List		Vision
Jurisdiction	Route Name		Route Number	From		To		Length (mi)
Campbell County	Waterlick Rd		622	Bedford County Corp Limit		Rainbow Forest Dr (Rt 1520)		1.1
Proposed Improvement		Widen to 4 lanes				Est. Cost	\$23,480,500	
Capacity/ Traffic Ops	Increases capacity	Safety Priority	Primary	Modes Served	Auto, Bike, Ped		Streetscaping	Secondary
Project Benefit Score		68.3	Project Benefit-Cost Rating		Medium	Project Readiness Rating		Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 1.36	High	100	37%	37.0
Traffic Volume	2040 Weighted Traffic Flow: 403	High	100	23%	23.0
Freight	Truck Volume: 0.92%	Low	33.3	20%	6.7
Alternative Transportation	Adds bike lanes, sidewalks	High	100	20%	20.0
Total Mobility and Accessibility Score					86.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 40 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Separates travel modes	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 14	High	100	30%	30.0
Corridor Beautification	Includes sidewalk area	Medium	66.7	30%	20.0
Right of Way Sufficiency	Significant additional right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					63.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Minor Arterial	Medium	66.7	20%	13.3
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Campbell County, Bedford County	Medium	66.7	42%	28.0
Total Operational Efficiency Score					54.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	86.7	20%	17.3
		Safety	100.0	25%	25.0
		Economy	33.3	25%	8.3
		Community and Nature	63.3	15%	9.5
		Operational Efficiency	54.0	15%	8.1
Total Project Benefit Score					68.3

Benefit-Cost Calculation	Benefit Score	68.3
	Estimated Cost	\$23,480,500
	Estimated Users	19338
	Benefit-Cost Score	56.22
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	73	Category	Road Capacity Expansion	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Campbell County	Waterlick Rd	622	Timberlake Rd (US 460)	Leesville Rd (Rt 682)	1.0
Proposed Improvement		Widen to 4 lanes		Est. Cost	\$20,889,000
Capacity/ Traffic Ops	Increases capacity	Safety Priority	Primary	Modes Served	Auto, Bike
				Streetscaping	None
Project Benefit Score	60.9	Project Benefit-Cost Rating	Medium	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 1.01	Medium	66.7	37%	24.7
Traffic Volume	2040 Weighted Traffic Flow: 326 vph	High	100	23%	23.0
Freight	Truck Volume: 0.89%	Low	33.3	20%	6.7
Alternative Transportation	Adds bike lanes	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					67.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 58 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Separate travel modes	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					43.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 10	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	Significant additional right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					43.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Collector	Low	33.3	20%	6.7
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Campbell County	Low	33.3	42%	14.0
Total Operational Efficiency Score					33.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	67.7	20%	13.5
		Safety	100.0	25%	25.0
		Economy	43.7	25%	10.9
		Community and Nature	43.3	15%	6.5
		Operational Efficiency	33.3	15%	5.0
Total Project Benefit Score					60.9

Benefit-Cost Calculation	Benefit Score	60.9
	Estimated Cost	\$20,889,000
	Estimated Users	15657
	Benefit-Cost Score	45.68
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	74	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Campbell County	Sunburst Rd	681	Richmond Highway (US 460)	Waterlick Rd (Rt 622)	2.6
Proposed Improvement		Reconstruct 2 lane roadway		Est. Cost	\$21,736,000
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	52.2	Project Benefit-Cost Rating	Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.39	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 93	Low	33.3	23%	7.7
Freight	Truck Volume: NA	Low	33.3	20%	6.7
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	Lynchburg District top accident rate location	High	100	61%	61.0
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					87.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 11	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					70.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Local Road	Low	33.3	20%	6.7
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Campbell County	Low	33.3	42%	14.0
Total Operational Efficiency Score					33.3

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	33.3	20%	6.7
	Safety	87.0	25%	21.8
	Economy	33.3	25%	8.3
	Community and Nature	70.0	15%	10.5
	Operational Efficiency	33.3	15%	5.0
Total Project Benefit Score				52.2

Benefit-Cost Calculation	Benefit Score	52.2
	Estimated Cost	\$21,736,000
	Estimated Users	4474
	Benefit-Cost Score	10.75
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	75	Category	Roadway Capacity Expansion	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Campbell County	Leesville Rd	682	City of Lynchburg corp limits	Richmond Highway (US 460)	2.1
Proposed Improvement		Widen to 4 lanes		Est. Cost	\$41,663,500
Capacity/Traffic Ops	Increases capacity	Safety Priority	Secondary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	51.8	Project Benefit-Cost Rating	Medium	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.92	Medium	66.7	37%	24.7
Traffic Volume	2040 Weighted Traffic Flow: 311 vph	High	100	23%	23.0
Freight	Truck Volume: NA	Low	33.3	20%	6.7
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					61.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 24.3 accidents per mile	Medium	66.7	61%	40.7
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 11	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	Significant additional right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					43.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Minor Arterial	Medium	66.7	20%	13.3
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Campbell County, City of Lynchburg	Medium	66.7	42%	28.0
Total Operational Efficiency Score					54.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	61.0	20%	12.2
		Safety	66.7	25%	16.7
		Economy	33.3	25%	8.3
		Community and Nature	43.3	15%	6.5
		Operational Efficiency	54.0	15%	8.1
Total Project Benefit Score					51.8

Benefit-Cost Calculation	Benefit Score	51.8
	Estimated Cost	\$41,663,500
	Estimated Users	15632
	Benefit-Cost Score	19.43
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	76	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Campbell County	Mt. Athos Rd	726	Richmond Highway (US 460)	Babcock and Wilcox	1.9
Proposed Improvement		Upgrade existing 2 lane road		Est. Cost	\$13,614,000
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	53.3	Project Benefit-Cost Rating	Medium	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 1.46	High	100	37%	37.0
Traffic Volume	2040 Weighted Traffic Flow: 286	Medium	66.7	23%	15.3
Freight	Truck Volume: 1.25%	Low	33.3	20%	6.7
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					65.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 4.2 accidents per mile	Low	33.3	61%	20.3
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					46.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Primary access to major employment center	Medium	66.7	44%	29.3
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					58.4

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 7	Low	33.3	30%	10.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					60.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Rural Major Collector	Low	33.3	20%	6.7
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Campbell County	Low	33.3	42%	14.0
Total Operational Efficiency Score					33.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	65.7	20%	13.1
		Safety	46.3	25%	11.6
		Economy	58.4	25%	14.6
		Community and Nature	60.0	15%	9.0
		Operational Efficiency	33.3	15%	5.0
Total Project Benefit Score					53.3

Benefit-Cost Calculation	Benefit Score	53.3
	Estimated Cost	\$13,614,000
	Estimated Users	13706
	Benefit-Cost Score	53.65
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	77	Category	Roadway Reconstruction		Project List	Vision	
Jurisdiction	Route Name		Route Number	From	To	Length (mi)	
Campbell County	English Tavern Rd		738	Suburban Rd (Rt 680)	Wards Rd (US 29)	1.6	
Proposed Improvement		Widen to 24 ft				Est. Cost	\$13,376,000
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto	Streetscaping	None
Project Benefit Score		47.2	Project Benefit-Cost Rating		Medium	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.37	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 98 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 1.26%	Low	33.3	20%	6.7
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 13.1 accidents per mile	Medium	66.7	61%	40.7
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 11	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					70.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Collector	Low	33.3	20%	6.7
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Campbell County	Low	33.3	42%	14.0
Total Operational Efficiency Score					33.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	33.3	20%	6.7
		Safety	66.7	25%	16.7
		Economy	33.3	25%	8.3
		Community and Nature	70.0	15%	10.5
		Operational Efficiency	33.3	15%	5.0
Total Project Benefit Score					47.2

Benefit-Cost Calculation	Benefit Score	47.2
	Estimated Cost	\$13,376,000
	Estimated Users	4697
	Benefit-Cost Score	16.56
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	78	Category	Roadway Reconstruction		Project List	Vision	
Jurisdiction	Route Name		Route Number	From	To		Length (mi)
Campbell County	English Tavern Rd		738	Wards Rd (US 29)	Suburban Rd (Rt 680)		1.2
Proposed Improvement		Widen to 24 ft				Est. Cost	\$10,032,000
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto	Streetscaping	None
Project Benefit Score		48.7	Project Benefit-Cost Rating		Medium	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.38	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 108 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 1.26%	Low	33.3	20%	6.7
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 10.8 accidents per mile	Medium	66.7	61%	40.7
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 14	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					80.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Rural Major Collector	Low	33.3	20%	6.7
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	Campbell County	Low	33.3	42%	14.0
Total Operational Efficiency Score					33.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	33.3	20%	6.7
		Safety	66.7	25%	16.7
		Economy	33.3	25%	8.3
		Community and Nature	80.0	15%	12.0
		Operational Efficiency	33.3	15%	5.0
		Total Project Benefit Score			48.7

Benefit-Cost Calculation	Benefit Score	48.7
	Estimated Cost	\$10,032,000
	Estimated Users	5190
	Benefit-Cost Score	25.17
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	79	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	Lynchburg Expressway	29	Main St/Church St	--	0.25
Proposed Improvement		Improve interchange		Est. Cost	\$2,700,000
Capacity/ Traffic Ops	Improve traffic ops	Safety Priority	Primary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	74.7	Project Benefit-Cost Rating	High	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.73	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 229 vph	Medium	66.7	23%	15.3
Freight	Truck Volume: 2.35%	Medium	66.7	20%	13.3
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					47.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 68 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Improved interchange design	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Corridor of Statewide Significance	Medium	66.7	25%	16.7
Commuter Travel	Primary commuter corridor without congestion	Medium	66.7	44%	29.3
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 8	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	Minor additional ROW needed	Medium	66.7	40%	26.7
Total Community and Nature Score					56.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Freeway and Expressway	High	100	20%	20.0
Plan Coordination	VDOT STARS, City of Lynchburg Comp Plan	High	100	38%	38.0
Distribution of Benefits	Regional Corridor	High	100	42%	42.0
Total Operational Efficiency Score					100.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	47.7	20%	9.5
		Safety	100.0	25%	25.0
		Economy	66.7	25%	16.7
		Community and Nature	56.7	15%	8.5
		Operational Efficiency	100.0	15%	15.0
Total Project Benefit Score					74.7

Benefit-Cost Calculation	Benefit Score	74.7
	Estimated Cost	\$2,700,000
	Estimated Users	17798
	Benefit-Cost Score	492.47
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	80	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	Lynchburg Expressway	29	Miller St/Robbin Rd	--	0.25
Proposed Improvement		Improve interchange		Est. Cost	\$200,000
Capacity/ Traffic Ops	Improve traffic ops	Safety Priority	Primary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	74.7	Project Benefit-Cost Rating	High	Project Readiness Rating	Medium

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.78	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 312 vph	High	100	23%	23.0
Freight	Truck Volume: 2.23%	Medium	66.7	20%	13.3
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					55.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 24 accidents per mile	Medium	66.7	61%	40.7
Safety Features	Primary: Improved interchange design	High	100	39%	39.0
Total Safety Score					79.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Corridor of Statewide Significance	Medium	66.7	25%	16.7
Commuter Travel	Primary commuter corridor without congestion	Medium	66.7	44%	29.3
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 13	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					80.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Freeway and Expressway	High	100	20%	20.0
Plan Coordination	VDOT STARS, City of Lynchburg Comp Plan	High	100	38%	38.0
Distribution of Benefits	Regional Corridor	High	100	42%	42.0
Total Operational Efficiency Score					100.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	55.3	20%	11.1
		Safety	79.7	25%	19.9
		Economy	66.7	25%	16.7
		Community and Nature	80.0	15%	12.0
		Operational Efficiency	100.0	15%	15.0
Total Project Benefit Score					74.7

Benefit-Cost Calculation	Benefit Score	74.7
	Estimated Cost	\$200,000
	Estimated Users	26888
	Benefit-Cost Score	10037.22
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	1
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	2
	Readiness Rating	Medium

Project Number	81	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	Lynchburg Expressway	29	Kemper St/ Campbell Ave	--	0.25
Proposed Improvement		Improve interchange		Est. Cost	\$14,900,000
Capacity/ Traffic Ops	Improves traffic ops	Safety Priority	Primary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	76.2	Project Benefit-Cost Rating	High	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.77	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 277	Medium	66.7	23%	15.3
Freight	Truck Volume: 2.56%	Medium	66.7	20%	13.3
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					47.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013:256 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Interchange design improvement	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Corridor of Statewide Significance	Medium	66.7	25%	16.7
Commuter Travel	Primary commuter corridor without congestion	Medium	66.7	44%	29.3
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 12	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	Minor additional ROW needed	Medium	66.7	40%	26.7
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Freeway and Expressway	High	100	20%	20.0
Plan Coordination	VDOT STARS, City of Lynchburg Comp Plan	High	100	38%	38.0
Distribution of Benefits	Regional Corridor	High	100	42%	42.0
Total Operational Efficiency Score					100.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	47.7	20%	9.5
		Safety	100.0	25%	25.0
		Economy	66.7	25%	16.7
		Community and Nature	66.7	15%	10.0
		Operational Efficiency	100.0	15%	15.0
Total Project Benefit Score					76.2

Benefit-Cost Calculation	Benefit Score	76.2
	Estimated Cost	\$14,900,000
	Estimated Users	23126
	Benefit-Cost Score	118.28
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	82	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	Lynchburg Expressway	29	James St/Stadium Rd	--	0.25
Proposed Improvement		Improve interchange		Est. Cost	\$12,220,000
Capacity/ Traffic Ops	Improves traffic ops	Safety Priority	Primary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	76.2	Project Benefit-Cost Rating	High	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.79	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 281 vph	Medium	66.7	23%	15.3
Freight	Truck Volume: 2.23%	Medium	66.7	20%	13.3
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					47.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 244 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Improved interchange design	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Corridor of Statewide Significance	Medium	66.7	25%	16.7
Commuter Travel	Primary commuter corridor without congestion	Medium	66.7	44%	29.3
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 12	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	Minor additional right of way needed	Medium	66.7	40%	26.7
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Freeway and Expressway	High	100	20%	20.0
Plan Coordination	VDOT STARS, City of Lynchburg Comp Plan	High	100	38%	38.0
Distribution of Benefits	Regional corridor	High	100	42%	42.0
Total Operational Efficiency Score					100.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	47.7	20%	9.5
		Safety	100.0	25%	25.0
		Economy	66.7	25%	16.7
		Community and Nature	66.7	15%	10.0
		Operational Efficiency	100.0	15%	15.0
Total Project Benefit Score					76.2

Benefit-Cost Calculation	Benefit Score	76.2
	Estimated Cost	\$12,220,000
	Estimated Users	25350
	Benefit-Cost Score	158.09
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	83	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	Lynchburg Expressway	29	Odd Fellows Rd	--	0.25
Proposed Improvement		Improve interchange		Est. Cost	\$7,320,000
Capacity/ Traffic Ops	Improves traffic ops	Safety Priority	Primary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	83.7	Project Benefit-Cost Rating	High	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.90	Medium	66.7	37%	24.7
Traffic Volume	2040 Weighted Traffic Flow: 282 vph	Medium	66.7	23%	15.3
Freight	Truck Volume: 13.79%	High	100	20%	20.0
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					66.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 68 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Improved interchange design	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Corridor of Statewide Significance	Medium	66.7	25%	16.7
Commuter Travel	Primary commuter corridor with congestion	High	100	44%	44.0
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					81.4

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 12	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	Minor additional ROW needed	Medium	66.7	40%	26.7
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Freeway and Expressway	High	100	20%	20.0
Plan Coordination	VDOT STARS, City of Lynchburg Comp Plan	High	100	38%	38.0
Distribution of Benefits	Regional Corridor	High	100	42%	42.0
Total Operational Efficiency Score					100.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	66.7	20%	13.3
		Safety	100.0	25%	25.0
		Economy	81.4	25%	20.3
		Community and Nature	66.7	15%	10.0
		Operational Efficiency	100.0	15%	15.0
Total Project Benefit Score					83.7

Benefit-Cost Calculation	Benefit Score	83.7
	Estimated Cost	\$7,320,000
	Estimated Users	20402
	Benefit-Cost Score	233.21
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	84	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	Lynchburg Expressway	29/501	Candlers Mountain Rd (Rt 501)	--	0.25
Proposed Improvement		Improve interchange		Est. Cost	\$16,220,000
Capacity/ Traffic Ops	Improves Traffic Ops	Safety Priority	Primary	Modes Served	Auto, Ped
				Streetscaping	None
Project Benefit Score	92.7	Project Benefit-Cost Rating	High	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 1.00	Medium	66.7	37%	24.7
Traffic Volume	2040 Weighted Traffic Flow: 324	High	100	23%	23.0
Freight	Truck Volume: 6.54%	High	100	20%	20.0
Alternative Transportation	Adds sidewalks on Candlers Mountain Rd	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					81.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 512 accidents per mile	High	100	61%	61.0
Safety Features	Safety enhanced interchange design	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Included in Region 2000 CEDS Plan (Rt 501)	High	100	25%	25.0
Commuter Travel	Primary commuter corridor with congestion	High	100	44%	44.0
Employment Density	More than 4 jobs per acre	High	100	31%	31.0
Total Economy Score					100.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 14	High	100	30%	30.0
Corridor Beautification	Secondary: Includes sidewalk features	Medium	66.7	30%	20.0
Right of Way Sufficiency	Minor additional ROW needed	Medium	66.7	40%	26.7
Total Community and Nature Score					76.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Freeway and Expressway	High	100	20%	20.0
Plan Coordination	VDOT Lynchburg Expressway STARS plan, City of Lynchburg Comp Plan	High	100	38%	38.0
Distribution of Benefits	Regional benefits	High	100	42%	42.0
Total Operational Efficiency Score					100.0

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	81.0	20%	16.2
	Safety	100.0	25%	25.0
	Economy	100.0	25%	25.0
	Community and Nature	76.7	15%	11.5
	Operational Efficiency	100.0	15%	15.0
Total Project Benefit Score				92.7

Benefit-Cost Calculation	Benefit Score	92.7
	Estimated Cost	\$16,220,000
	Estimated Users	26753
	Benefit-Cost Score	152.91
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	85	Category	Streetscape Improvements	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	5th St	163	Jackson St	Taylor St	0.2
Proposed Improvement	Streetscape improvements			Est. Cost	\$2,000,000
Capacity/ Traffic Ops	No increase	Safety Priority	Secondary	Modes Served	Auto, Ped
				Streetscaping	Primary
Project Benefit Score	55.5	Project Benefit-Cost Rating	High	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	Does not improve roadway capacity	Low	33.3	37%	12.3
Traffic Volume	Does not improve roadway capacity	Low	33.3	23%	7.7
Freight	Does not improve roadway capacity	Low	33.3	20%	6.7
Alternative Transportation	Improves sidewalks	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					40.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	Does not affect road operations	Low	33.3	61%	20.3
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					46.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	More than 4 jobs per acre	High	100	31%	31.0
Total Economy Score					54.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 11	Medium	66.7	30%	20.0
Corridor Beautification	Primary: Streetscape improvement project	High	100	30%	30.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					90.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Other Principle Arterial	High	100	20%	20.0
Plan Coordination	City of Lynchburg Comp Plan	Medium	66.7	38%	25.3
Distribution of Benefits	City of Lynchburg	Low	33.3	42%	14.0
Total Operational Efficiency Score					59.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	40.0	20%	8.0
		Safety	46.3	25%	11.6
		Economy	54.0	25%	13.5
		Community and Nature	90.0	15%	13.5
		Operational Efficiency	59.3	15%	8.9
Total Project Benefit Score					55.5

Benefit-Cost Calculation	Benefit Score	55.5
	Estimated Cost	\$2,000,000
	Estimated Users	15360
	Benefit-Cost Score	426.03
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	86	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	5th St	163	Taylor St	NS Railway Bridge	0.3
Proposed Improvement	Reconstruct road and ped, add streetscape			Est. Cost	\$2,000,000
Capacity/ Traffic Ops	No increase	Safety Priority	Primary	Modes Served	Auto, Ped
				Streetscaping	Primary
Project Benefit Score	61.2	Project Benefit-Cost Rating	High	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	Does not increase capacity	Low	33.3	37%	12.3
Traffic Volume	Does not increase capacity	Low	33.3	23%	7.7
Freight	Does not increase capacity	Low	33.3	20%	6.7
Alternative Transportation	Improves sidewalks	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					40.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 23.3 accidents per mile	Medium	66.7	61%	40.7
Safety Features	Primary: Separates travel modes	High	100	39%	39.0
Total Safety Score					79.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					43.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 11	Medium	66.7	30%	20.0
Corridor Beautification	Primary: Includes streetscape element	High	100	30%	30.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					90.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Other Principle Arterial	High	100	20%	20.0
Plan Coordination	City of Lynchburg Comp Plan	Medium	66.7	38%	25.3
Distribution of Benefits	City of Lynchburg	Low	33.3	42%	14.0
Total Operational Efficiency Score					59.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	40.0	20%	8.0
		Safety	79.7	25%	19.9
		Economy	43.7	25%	10.9
		Community and Nature	90.0	15%	13.5
		Operational Efficiency	59.3	15%	8.9
Total Project Benefit Score					61.2

Benefit-Cost Calculation	Benefit Score	61.2
	Estimated Cost	\$2,000,000
	Estimated Users	15360
	Benefit-Cost Score	470.27
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	87	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	Memorial Ave	163	NS Railway	Langhorne Ave	0.4
Proposed Improvement	Reconstruct road and ped, add streetscape			Est. Cost	\$2,000,000
Capacity/ Traffic Ops	No increase	Safety Priority	Primary	Modes Served	Auto, Ped
				Streetscaping	Primary
Project Benefit Score	68.9	Project Benefit-Cost Rating	High	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	Does not increase capacity	Low	33.3	37%	12.3
Traffic Volume	Does not increase capacity	Low	33.3	23%	7.7
Freight	Does not increase capacity	Low	33.3	20%	6.7
Alternative Transportation	Improves sidewalks	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					40.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 45 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Mode separation	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	More than 4 jobs per acre	High	100	31%	31.0
Total Economy Score					54.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 10	Medium	66.7	30%	20.0
Corridor Beautification	Primary: Includes streetscape features	High	100	30%	30.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					90.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Other Principle Arterial	High	100	20%	20.0
Plan Coordination	City of Lynchburg Comp Plan	Medium	66.7	38%	25.3
Distribution of Benefits	City of Lynchburg	Low	33.3	42%	14.0
Total Operational Efficiency Score					59.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	40.0	20%	8.0
		Safety	100.0	25%	25.0
		Economy	54.0	25%	13.5
		Community and Nature	90.0	15%	13.5
		Operational Efficiency	59.3	15%	8.9
Total Project Benefit Score					68.9

Benefit-Cost Calculation	Benefit Score	68.9
	Estimated Cost	\$2,000,000
	Estimated Users	14790
	Benefit-Cost Score	509.45
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number		88	Category	Roadway Capacity Expansion		Project List		Vision
Jurisdiction	Route Name		Route Number	From		To		Length (mi)
City of Lynchburg	Lakeside Dr		221	Lynchburg Expressway (Rt 501)		Forest Brook Rd		0.9
Proposed Improvement		Widen to 4 lanes				Est. Cost	\$19,211,175	
Capacity/ Traffic Ops	Increases capacity	Safety Priority	Primary	Modes Served	Auto, Bike, Ped		Streetscaping	Secondary
Project Benefit Score		80.1	Project Benefit-Cost Rating		Medium	Project Readiness Rating		Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 1.19	High	100	37%	37.0
Traffic Volume	2040 Weighted Traffic Flow: 365 vph	High	100	23%	23.0
Freight	Truck Volume: 1.11%	Low	33.3	20%	6.7
Alternative Transportation	Adds bike lanes, sidewalks	High	100	20%	20.0
Total Mobility and Accessibility Score					86.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 37.8 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Separates travel modes	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Primary commuter corridor with congestion	High	100	44%	44.0
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					73.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 14	High	100	30%	30.0
Corridor Beautification	Includes sidewalk area	Medium	66.7	30%	20.0
Right of Way Sufficiency	Significant additional right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					63.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Minor Arterial	Medium	66.7	20%	13.3
Plan Coordination	Rt 221 Corridor Study	Medium	66.7	38%	25.3
Distribution of Benefits	City of Lynchburg, Bedford County	Medium	66.7	42%	28.0
Total Operational Efficiency Score					66.7

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	86.7	20%	17.3
		Safety	100.0	25%	25.0
		Economy	73.0	25%	18.3
		Community and Nature	63.3	15%	9.5
		Operational Efficiency	66.7	15%	10.0
		Total Project Benefit Score			80.1

Benefit-Cost Calculation	Benefit Score	80.1
	Estimated Cost	\$19,211,175
	Estimated Users	17532
	Benefit-Cost Score	73.09
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number		89	Category	Roadway Capacity Expansion		Project List		Vision
Jurisdiction	Route Name		Route Number	From		To		Length (mi)
City of Lynchburg	Richmond Highway		460/29	Campbell Ave (Rt 501)		Monacan Parkway (US 29)		1.67
Proposed Improvement			Widen to 6 lane limited access highway				Est. Cost	\$39,927,900
Capacity/ Traffic Ops	Increases capacity	Safety Priority	Primary	Modes Served	Auto		Streetscaping	None
Project Benefit Score		82.7	Project Benefit-Cost Rating		Medium	Project Readiness Rating		Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.92	Medium	66.7	37%	24.7
Traffic Volume	2040 Weighted Traffic Flow: 515 vph	High	100	23%	23.0
Freight	Truck Volume: 6.54%	High	100	20%	20.0
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					74.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 33.5 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Access management	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Virginia Statewide Multimodal Freight Plan	High	100	25%	25.0
Commuter Travel	Primary commuter corridor with congestion	High	100	44%	44.0
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					79.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 12	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	Significant additional right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					53.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Other Principle Arterial	High	100	20%	20.0
Plan Coordination	VTRANS 2035 Surface Transportation Plan, Virginia Statewide Multimodal Freight Plan	High	100	38%	38.0
Distribution of Benefits	Regional corridor	High	100	42%	42.0
Total Operational Efficiency Score					100.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	74.3	20%	14.9
		Safety	100.0	25%	25.0
		Economy	79.3	25%	19.8
		Community and Nature	53.3	15%	8.0
		Operational Efficiency	100.0	15%	15.0
Total Project Benefit Score					82.7

Benefit-Cost Calculation	Benefit Score	82.7
	Estimated Cost	\$39,927,900
	Estimated Users	49432
	Benefit-Cost Score	102.38
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number		90	Category	Roadway Reconstruction		Project List		Vision
Jurisdiction	Route Name		Route Number	From		To		Length (mi)
City of Lynchburg	Lynchburg Expressway		501	S of Rt 221		Northwest Expressway (Rt 501)		1
Proposed Improvement		New 4 lane road (One way pairs)				Est. Cost	\$37,383,000	
Capacity/ Traffic Ops	Improves operations	Safety Priority	Primary	Modes Served	Auto, Ped		Streetscaping	Secondary
Project Benefit Score		93.3	Project Benefit-Cost Rating		High	Project Readiness Rating		High

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 1.14	High	100	37%	37.0
Traffic Volume	2040 Weighted Traffic Flow: 580 vph	High	100	23%	23.0
Freight	Truck Volume: 2.4%	Medium	66.7	20%	13.3
Alternative Transportation	Adds sidewalks	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					86.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 46 accidents per mile	High	100	61%	61.0
Safety Features	Safety intersection design, separates modes	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Recommended in Region 2000 CEDS	High	100	25%	25.0
Commuter Travel	Primary commuter corridor with congestion	High	100	44%	44.0
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					89.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 14	High	100	30%	30.0
Corridor Beautification	Includes sidewalk space	Medium	66.7	30%	20.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					90.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Freeway and Expressway	High	100	20%	20.0
Plan Coordination	City of Lynchburg Comp Plan, Region 2000 CEDS, VTRANS 2035 STP	High	100	38%	38.0
Distribution of Benefits	Regional	High	100	42%	42.0
Total Operational Efficiency Score					100.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	86.7	20%	17.3
		Safety	100.0	25%	25.0
		Economy	89.7	25%	22.4
		Community and Nature	90.0	15%	13.5
		Operational Efficiency	100.0	15%	15.0
Total Project Benefit Score					93.3

Benefit-Cost Calculation	Benefit Score	93.3
	Estimated Cost	\$37,383,000
	Estimated Users	55,680
	Benefit-Cost Score	138.90
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	1
	Right of Way Acquisition	1
	Ongoing Project	1
	Readiness Score	3
	Readiness Rating	High

Project Number	91	Category	Roadway Capacity Expansion	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	Candlers Mountain Rd	501	Richmond Highway (US 460)	Lynchburg Expressway (US 29)	0.99
Proposed Improvement		Widen to 6 lanes		Est. Cost	\$23,068,000
Capacity/ Traffic Ops	Increases capacity	Safety Priority	Primary	Modes Served	Auto, Ped
				Streetscaping	Secondary
Project Benefit Score	89.4	Project Benefit-Cost Rating	High	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 1.00	Medium	66.7	37%	24.7
Traffic Volume	2040 Weighted Traffic Flow: 526 vph	High	100	23%	23.0
Freight	Truck Volume: 2.40%	Medium	66.7	20%	13.3
Alternative Transportation	Adds sidewalks	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					74.4

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 121 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Separates travel modes	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Region 2000 CEDS	High	100	25%	25.0
Commuter Travel	Primary commuter corridor with congestion	High	100	44%	44.0
Employment Density	More than 4 jobs per acre	High	100	31%	31.0
Total Economy Score					100.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 13	High	100	30%	30.0
Corridor Beautification	Includes sidewalk area	Medium	66.7	30%	20.0
Right of Way Sufficiency	Significant additional right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					63.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Other Principle Arterial	High	100	20%	20.0
Plan Coordination	Region 2000 CEDS, VTRANS 2035 Surface Transportation Plan	High	100	38%	38.0
Distribution of Benefits	Regional corridor	High	100	42%	42.0
Total Operational Efficiency Score					100.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	74.4	20%	14.9
		Safety	100.0	25%	25.0
		Economy	100.0	25%	25.0
		Community and Nature	63.3	15%	9.5
		Operational Efficiency	100.0	15%	15.0
Total Project Benefit Score					89.4

Benefit-Cost Calculation	Benefit Score	89.4
	Estimated Cost	\$23,068,000
	Estimated Users	50522
	Benefit-Cost Score	195.74
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	92	Category	Roadway Capacity Expansion	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	Northwest Expressway	501	Old Forest Rd	Wiggington Rd (Rt 620)	1.3
Proposed Improvement		Widen to 4 lanes		Est. Cost	\$27,652,950
Capacity/ Traffic Ops	Increases capacity	Safety Priority	Secondary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	70.5	Project Benefit-Cost Rating	High	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 1.16	High	100	37%	37.0
Traffic Volume	2040 Weighted Traffic Flow: 604	High	100	23%	23.0
Freight	Truck Volume: 2.4%	Medium	66.7	20%	13.3
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					80.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 16.9 accidents per mile	Medium	66.7	61%	40.7
Safety Features	Secondary Priority: General Design	Medium	66.7	39%	26.0
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Region 2000 CEDS Plan	High	100	25%	25.0
Commuter Travel	Primary commuter corridor with congestion	High	100	44%	44.0
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					89.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 8	Medium	66.7	30%	20.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	Significant additional right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					43.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Freeway and Expressway	High	100	20%	20.0
Plan Coordination	VTRANS 2035 Surface Transportation Plan	Medium	66.7	38%	25.3
Distribution of Benefits	City of Lynchburg	Low	33.3	42%	14.0
Total Operational Efficiency Score					59.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	80.0	20%	16.0
		Safety	66.7	25%	16.7
		Economy	89.7	25%	22.4
		Community and Nature	43.3	15%	6.5
		Operational Efficiency	59.3	15%	8.9
Total Project Benefit Score					70.5

Benefit-Cost Calculation	Benefit Score	70.5
	Estimated Cost	\$27,652,950
	Estimated Users	50230
	Benefit-Cost Score	128.04
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	93	Category	Multimodal Capacity Expansion	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	Campbell Ave	501	Edmunds St	Florida Ave	1.4
Proposed Improvement	Roundabouts, Road Diet, Rail to Trail			Est. Cost	\$6,100,000
Capacity/ Traffic Ops	No increase	Safety Priority	Primary	Modes Served	Auto, Bike, Ped
				Streetscaping	Secondary
Project Benefit Score	66.8	Project Benefit-Cost Rating	High	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.74	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 209	Medium	66.7	23%	15.3
Freight	Truck Volume: 2.05%	Medium	66.7	20%	13.3
Alternative Transportation	Adds bike lanes, improves sidewalks	High	100	20%	20.0
Total Mobility and Accessibility Score					61.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 57.9 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Separates travel modes	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	Less than 1 job per acre	Low	33.3	31%	10.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 12	High	100	30%	30.0
Corridor Beautification	Includes sidewalk and roundabout areas	Medium	66.7	30%	20.0
Right of Way Sufficiency	Some additional ROW needed	Medium	66.7	40%	26.7
Total Community and Nature Score					76.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Minor Arterial	Medium	66.7	20%	13.3
Plan Coordination	City of Lynchburg Comp Plan, Campbell Ave Corridor Study	High	100	38%	38.0
Distribution of Benefits	City of Lynchburg	Low	33.3	42%	14.0
Total Operational Efficiency Score					65.3

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	61.0	20%	12.2
		Safety	100.0	25%	25.0
		Economy	33.3	25%	8.3
		Community and Nature	76.7	15%	11.5
		Operational Efficiency	65.3	15%	9.8
		Total Project Benefit Score			66.8

Benefit-Cost Calculation	Benefit Score	66.8
	Estimated Cost	\$6,100,000
	Estimated Users	19101
	Benefit-Cost Score	209.26
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number		94	Category	Roadway Capacity Expansion		Project List		Vision
Jurisdiction	Route Name		Route Number	From		To		Length (mi)
City of Lynchburg	Candlers Mountain Rd		670	Mayflower Dr (Rt 128)		Richmond Highway (US 460)		0.7
Proposed Improvement		Widen to 4 lanes				Est. Cost	\$17,283,000	
Capacity/Traffic Ops	Increases capacity	Safety Priority	Primary	Modes Served	Auto, Bike, Ped		Streetscaping	Secondary
Project Benefit Score		68.9	Project Benefit-Cost Rating		Medium	Project Readiness Rating		Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 1.08	Medium	66.7	37%	24.7
Traffic Volume	2040 Weighted Traffic Flow: 315 vph	High	100	23%	23.0
Freight	Truck Volume: 0.33%	Low	33.3	20%	6.7
Alternative Transportation	Adds bike lanes, sidewalks	High	100	20%	20.0
Total Mobility and Accessibility Score					74.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 78.6 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Separates travel modes	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	More than 4 jobs per acre	High	100	31%	31.0
Total Economy Score					54.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 13	High	100	30%	30.0
Corridor Beautification	Includes sidewalk area	Medium	66.7	30%	20.0
Right of Way Sufficiency	Significant additional right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					63.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Minor Arterial	Medium	66.7	20%	13.3
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	City of Lynchburg	Low	33.3	42%	14.0
Total Operational Efficiency Score					40.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	74.3	20%	14.9
		Safety	100.0	25%	25.0
		Economy	54.0	25%	13.5
		Community and Nature	63.3	15%	9.5
		Operational Efficiency	40.0	15%	6.0
		Total Project Benefit Score			68.9

Benefit-Cost Calculation	Benefit Score	68.9
	Estimated Cost	\$17,283,000
	Estimated Users	14714
	Benefit-Cost Score	58.62
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	95	Category	Multimodal Capacity Expansion	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	Downtown Streets	--	--	--	--
Proposed Improvement	Implement downtown complete streets			Est. Cost	\$50,000,000
Capacity/Traffic Ops	No increase	Safety Priority	Primary	Modes Served	Auto, Bike, Ped
				Streetscaping	Primary
Project Benefit Score	72.8	Project Benefit-Cost Rating	Medium	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	Does not increase capacity	Low	33.3	37%	12.3
Traffic Volume	Does not increase capacity	Low	33.3	23%	7.7
Freight	Does not increase capacity	Low	33.3	20%	6.7
Alternative Transportation	Improves sidewalks, adds bike lanes	High	100	20%	20.0
Total Mobility and Accessibility Score					46.6

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 33.8 accidents per mile	High	100	61%	61.0
Safety Features	Primary: Mode separation	High	100	39%	39.0
Total Safety Score					100.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Region 2000 CEDS	High	100	25%	25.0
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	More than 4 jobs per acre	High	100	31%	31.0
Total Economy Score					70.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 7	Low	33.3	30%	10.0
Corridor Beautification	Primary: Includes streetscape elements	High	100	30%	30.0
Right of Way Sufficiency	No additional ROW needed	High	100	40%	40.0
Total Community and Nature Score					80.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Local	Low	33.3	20%	6.7
Plan Coordination	Region 2000 CEDS, City of Lynchburg Comp Plan	High	100	38%	38.0
Distribution of Benefits	City of Lynchburg	Low	33.3	42%	14.0
Total Operational Efficiency Score					58.6

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	46.6	20%	9.3
	Safety	100.0	25%	25.0
	Economy	70.7	25%	17.7
	Community and Nature	80.0	15%	12.0
	Operational Efficiency	58.6	15%	8.8
Total Project Benefit Score				72.8

Benefit-Cost Calculation	Benefit Score	72.8
	Estimated Cost	\$50,000,000
	Estimated Users	20000
	Benefit-Cost Score	29.11
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	1
	Ongoing Project	0
	Readiness Score	1
	Readiness Rating	Low

Project Number	96	Category	Roadway Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	Odd Fellows Rd	--	Richmond Hwy (US 460)	Lynchburg Expressway (US 29)	1.2
Proposed Improvement		Roundabouts, bridge replacement, corridor balance		Est. Cost	\$13,000,000
Capacity/ Traffic Ops	Improves traffic ops	Safety Priority	Primary	Modes Served	Auto, Bike, Ped
				Streetscaping	Secondary
Project Benefit Score	63.9	Project Benefit-Cost Rating	Medium	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.84	Medium	66.7	37%	24.7
Traffic Volume	2040 Weighted Traffic Flow: 234 vph	Medium	66.7	23%	15.3
Freight	Truck Volume: 13.79%	High	100	20%	20.0
Alternative Transportation	Adds bike lanes, sidewalks	High	100	20%	20.0
Total Mobility and Accessibility Score					80.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 9.2 accidents per mile	Low	33.3	61%	20.3
Safety Features	Primary: Separates travel modes	High	100	39%	39.0
Total Safety Score					59.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Significant local economic role	Medium	66.7	25%	16.7
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	More than 4 jobs per acre	High	100	31%	31.0
Total Economy Score					62.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 13	High	100	30%	30.0
Corridor Beautification	Includes sidewalk, roundabout area	Medium	66.7	30%	20.0
Right of Way Sufficiency	Minor additional ROW needed	Medium	66.7	40%	26.7
Total Community and Nature Score					76.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Minor Arterial	Medium	66.7	20%	13.3
Plan Coordination	Not recommended in other plans	Low	33.3	38%	12.7
Distribution of Benefits	City of Lynchburg	Low	33.3	42%	14.0
Total Operational Efficiency Score					40.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	80.0	20%	16.0
		Safety	59.3	25%	14.8
		Economy	62.3	25%	15.6
		Community and Nature	76.7	15%	11.5
		Operational Efficiency	40.0	15%	6.0
		Total Project Benefit Score			63.9

Benefit-Cost Calculation	Benefit Score	63.9
	Estimated Cost	\$13,000,000
	Estimated Users	11220
	Benefit-Cost Score	55.16
	Benefit-Cost Rating	Medium

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	97	Category	Intersection Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	Wards Ferry Rd	--	Harvard St.	--	0.25
Proposed Improvement	Construct Roundabout			Est. Cost	\$1,100,000
Capacity/ Traffic Ops	Improves traffic ops	Safety Priority	Primary	Modes Served	Auto, Bike, Ped
				Streetscaping	Secondary
Project Benefit Score	61.1	Project Benefit-Cost Rating	High	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.65	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 138 vph	Low	33.3	23%	7.7
Freight	Truck Volume: 1.65%	Low	33.3	20%	6.7
Alternative Transportation	Adds bike lanes, sidewalks	High	100	20%	20.0
Total Mobility and Accessibility Score					46.6

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 24 accidents per mile	Medium	66.7	61%	40.7
Safety Features	Primary: Intersection safety design	High	100	39%	39.0
Total Safety Score					79.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	More than 4 jobs per acre	High	100	31%	31.0
Total Economy Score					54.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 14	High	100	30%	30.0
Corridor Beautification	Includes roundabout and sidewalk area	Medium	66.7	30%	20.0
Right of Way Sufficiency	Some additional right of way needed	Medium	66.7	40%	26.7
Total Community and Nature Score					76.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Collector	Low	33.3	20%	6.7
Plan Coordination	City of Lynchburg Comprehensive Plan	Medium	66.7	38%	25.3
Distribution of Benefits	City of Lynchburg	Low	33.3	42%	14.0
Total Operational Efficiency Score					46.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	46.6	20%	9.3
		Safety	79.7	25%	19.9
		Economy	54.0	25%	13.5
		Community and Nature	76.7	15%	11.5
		Operational Efficiency	46.0	15%	6.9
		Total Project Benefit Score			61.1

Benefit-Cost Calculation	Benefit Score	61.1
	Estimated Cost	\$1,100,000
	Estimated Users	10000
	Benefit-Cost Score	555.88
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	98	Category	Intersection Reconstruction	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	Wards Ferry Rd	--	Atlanta Ave	--	0.25
Proposed Improvement	Add turn lanes			Est. Cost	\$495,000
Capacity/ Traffic Ops	Improves traffic ops	Safety Priority	Primary	Modes Served	Auto
				Streetscaping	None
Project Benefit Score	53.4	Project Benefit-Cost Rating	High	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: 0.78	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: 166 vph	Medium	66.7	23%	15.3
Freight	Truck Volume: 0.95%	Low	33.3	20%	6.7
Alternative Transportation	None included	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					41.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: 8 accidents per mile	Low	33.3	61%	20.3
Safety Features	Primary: Intersection redesign	High	100	39%	39.0
Total Safety Score					59.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Not included in recommendations	Low	33.3	25%	8.3
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	More than 4 jobs per acre	High	100	31%	31.0
Total Economy Score					54.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 14	High	100	30%	30.0
Corridor Beautification	No streetscaping features	Low	33.3	30%	10.0
Right of Way Sufficiency	Minor additional ROW needed	Medium	66.7	40%	26.7
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Urban Collector	Low	33.3	20%	6.7
Plan Coordination	City of Lynchburg Comp Plan	Medium	66.7	38%	25.3
Distribution of Benefits	City of Lynchburg	Low	33.3	42%	14.0
Total Operational Efficiency Score					46.0

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	41.0	20%	8.2
		Safety	59.3	25%	14.8
		Economy	54.0	25%	13.5
		Community and Nature	66.7	15%	10.0
		Operational Efficiency	46.0	15%	6.9
Total Project Benefit Score					53.4

Benefit-Cost Calculation	Benefit Score	53.4
	Estimated Cost	\$495,000
	Estimated Users	12000
	Benefit-Cost Score	1294.99
	Benefit-Cost Rating	High

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low

Project Number	99	Category	New Roadway	Project List	Vision
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	New Road	--	Campbell Ave (Rt 501)	Odd Fellows Rd	1.0
Proposed Improvement	Construct new roadway			Est. Cost	\$10,000,000
Capacity/ Traffic Ops	Increases capacity	Safety Priority	Primary	Modes Served	Auto, Bike, Ped
				Streetscaping	Secondary
Project Benefit Score	53.6	Project Benefit-Cost Rating	Low	Project Readiness Rating	Low

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Congestion	2040 V/C: NA	Low	33.3	37%	12.3
Traffic Volume	2040 Weighted Traffic Flow: NA	Low	33.3	23%	7.7
Freight	Truck Volume: NA	Low	33.3	20%	6.7
Alternative Transportation	Adds bike lanes, sidewalks	High	100	20%	20.0
Total Mobility and Accessibility Score					46.6

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Accident Rate	2011-2013: NA	Low	33.3	61%	20.3
Safety Features	Primary: Mode separation	High	100	39%	39.0
Total Safety Score					59.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Economic Development Plans	Locally significant project	Medium	66.7	25%	16.7
Commuter Travel	Not a primary commuter corridor	Low	33.3	44%	14.7
Employment Density	1-4 jobs per acre	Medium	66.7	31%	20.7
Total Economy Score					52.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural and Env. Resources	Resource Score: 14	High	100	30%	30.0
Corridor Beautification	Includes sidewalk area	Medium	66.7	30%	20.0
Right of Way Sufficiency	Significant additional right of way needed	Low	33.3	40%	13.3
Total Community and Nature Score					63.3

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Functional Classification	Not classified	Low	33.3	20%	6.7
Plan Coordination	City of Lynchburg Comp Plan	Medium	66.7	38%	25.3
Distribution of Benefits	City of Lynchburg	Low	33.3	42%	14.0
Total Operational Efficiency Score					46.0

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	46.6	20%	9.3
	Safety	59.3	25%	14.8
	Economy	52.0	25%	13.0
	Community and Nature	63.3	15%	9.5
	Operational Efficiency	46.0	15%	6.9
Total Project Benefit Score				53.6

Benefit-Cost Calculation	Benefit Score	53.6
	Estimated Cost	\$10,000,000
	Estimated Users	2000
	Benefit-Cost Score	10.71
	Benefit-Cost Rating	Low

Readiness Calculation	NEPA Screening	0
	Right of Way Acquisition	0
	Ongoing Project	0
	Readiness Score	0
	Readiness Rating	Low