

Appendix A: Covington Bicycle Facility Options Matrix

Covington + Newport Bicycle Transportation Study September 2023		Existing Conditions										Proposed Design Criteria <small>(Based on NACTO All Ages & Abilities Bicycle Facilities Guide)</small>					Recommendation	
		State Route	Width (Curb to Curb)	1-Way or 2-way	Number of Travel Lanes	Speed Limit (MPH)	Traffic Counts (ADIT)	On-Street Parking	Two-Way Protected Bike Lane	One-Way Protected Bike Lane	Conventional Bike Lane	Bicycle Boulevard	Alternative Concepts / Configurations	Priority	Bicycle Network			
																3' Buffer, 8'-12' lanes (two-way) Target ADT = 3,000-6000+	3' Buffer, 5'-7' lanes Target ADT = 3,000-6000+	Less than or equal to 25 MPH Target ADT = 1,500-3,000
Highway Avenue	Swain Court to Parkway Ave	Y	- 40'	2-way	2	30 MPH	12,094	both sides	Remove 1 parking lane; (2) 10' travel lanes, (1) 7' parking lane, 3' buffer, 10' bike lanes	N/A need return route	N/A traffic too high and need return route	N/A traffic too high	Reconfigure sidewalk and construct Shared Use Path	1	Arterial			
	Parkway Ave to West St	Y	- 40'	2-way	2	30 MPH	6,141 - 12,095	both sides	Remove 1 parking lane; (2) 10' travel lanes, (1) 7' parking lane, 3' buffer, 10' bike lanes	N/A need return route	N/A traffic too high and need return route	N/A traffic too high	Reconfigure sidewalk and construct Shared Use Path	3	Arterial			
Parkway Avenue	Highway Ave to Allamont Rd	N	- 25'	2-way	2	25 MPH	-	south side	N/A too narrow and need return route	N/A too narrow and need return route	Implement Bike Boulevard / Traffic Calming Measures	-	-	1	Arterial			
	Allamont Rd to Prisoners Lake Dr	N	- 22'	2-way	2	25 MPH	-	west side	N/A too narrow	N/A too narrow and need return route	Implement Bike Boulevard / Traffic Calming Measures	-	-	1	Arterial			
3rd St	Johnson St to Main St	Y	- 30'	2-way	3 (2 EB, 1 WB)	30 MPH	7,957	no parking	Incorporate into IRS site redevelopment	N/A	N/A	N/A	Incorporate shared use path into IRS site redevelopment	1	Arterial			
	Main St to Pete Rose Pier	Y	- 33'	2-way	4 (2 EB, 1 WB)	25 MPH	7,957	no parking	Incorporate into IRS site redevelopment	N/A	N/A	N/A	Incorporate shared use path into IRS site redevelopment	1	Arterial			
Pete Rose Pier	Bakewell St to 3rd St	N	- 26'	2-way	2	-	-	no parking	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	(2) 10' travel lanes, 6' bike lane (return route on Main St)	Reconfigure sidewalk and construct Shared Use Path	N/A	Alternative			
	3rd St to Riverfront Commons	N	- 26'	2-way	3	-	-	no parking	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	(2) 10' travel lanes, 6' bike lane (return route on Main St)	Reconfigure sidewalk and construct Shared Use Path	1	Arterial			
Johnson Street	4th St to 3rd St	Y	- 44'	2-way	4 (w/ turn lane)	30 MPH	7,957	no parking	Remove 1 travel/turn lane; (3) 10' travel lanes, 3' buffer, 11' bike lanes	N/A	N/A	N/A	Incorporate shared use path into IRS site redevelopment	1	Arterial			
	3rd St to 2nd St	N	- 36'	2-way	2 (w/ turn lane)	30 MPH	3,667	no parking	(2) 11' travel lanes, 3' buffer, 11' bike lanes	N/A	N/A	N/A	Incorporate shared use path into IRS site redevelopment	1	Arterial			
Bakewell Street	W 3rd St to W 4th St	N	- 26'	2-way	2	35 MPH	-	no parking	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	N/A speed limit too high	Reconfigure sidewalk to add Shared Use Path	N/A	Alternative			
Clay Wade Bailey Bridge	Clay Wade Bailey Bridge	Y	- 45'	2-way	3 (center lane for peak times)	35 MPH	9,054	no parking	Remove 1 travel lane; (2) 12' travel lanes, 3' shoulder space, 6' buffer, 12' bike lanes	N/A need return route	N/A traffic too high	N/A traffic too high	Reconfigure sidewalk and eastern travel lane to add Shared Use Path	2	Arterial			
	W 4th St to W 5th St	Y	40'	2-way	4 (w/ turn lane)	30 MPH	9,693	no parking	Remove 1 travel lane (3) 10' travel lanes, 2' buffer, 8' bike lanes	Remove 1 travel lane; (3) 10.5' travel lanes, 3' buffer, 5.5' bike lane (WB return route on Philadelphia St)	N/A traffic too high	N/A traffic too high	Reconfigure sidewalk to add Shared Use Path along east side	1	Arterial			
Main Street	W 5th St to W 6th St	Y	- 36'	2-way	3 (w/ turn lane)	30 MPH	4,212	both sides	Remove 1 parking/turn lane; (2) 11' travel lanes, 3' buffer, 8' bike lanes	Remove 1 travel & 1 parking lane; (2) 10' travel lanes, (1) 7' parking lane, 3' buffer, 5' bike lane (WB return route on Philadelphia St)	N/A traffic too high	N/A traffic too high	Improve alley east of Main Street to connect to 6th Street	1	Arterial			
	Garrard St to Greenup St	N	- 27'	2-way	2 (No CL)	25 MPH	-	south side only	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	Remove 1 parking lane; (2) 10.5' travel lanes, 6' bike lane (WB return route on 4th St)	-	3	Collector			
2nd Street / Rivercenter Blvd	Greenup St to Scott St	N	- 27'	2-way	2	25 MPH	-	no parking	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	(2) 10.5' travel lanes, 6' bike lane (WB return route on 4th St)	Reconfigure sidewalk and construct Shared Use Path	3	Collector			
	Scott St to Madison Ave	N	- 39'	2-way	3 (w/ turn lane)	25 MPH	3,667	north side only	Remove 1 turn lane; (2) 10.5' travel lanes, 7' parking lane, 3' buffer, 8' bike lanes	Remove 1 turn lane (2) 12' travel lanes, 7' parking lane, 2' buffer, 6' bike lane (WB return route on 4th St)	N/A traffic too high	N/A traffic too high	Reconfigure sidewalk and construct Shared Use Path or elevated two-way bike lane	3	Collector			
	Madison Ave to Washington Ave	N	- 36'	2-way	2	30 MPH	3,667	north side only	(2) 10' travel lanes, 7' parking lane, 1' buffer, 8' bike lanes	(2) 10' travel lanes, 8' parking lane, 1' buffer, 8' bike lanes (WB return route on 4th St)	N/A traffic too high	N/A traffic too high	Reconfigure sidewalk and construct Shared Use Path or elevated two-way bike lane	3	Collector			
	Johnson St to Main St	N	- 22'	2-way	2 (No CL)	25 MPH	-	no parking	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	(2) 9.5' travel lanes, 6' bike lane (WB return route on 4th St)	Reconfigure sidewalk and construct Shared Use Path	N/A	Alternative			
	Main St to Pete Rose Pier	N	Unclear	2-way	2	-	-	-	(2) 10' travel lanes, 3' buffer, 8' bike lanes	(2) 10' travel lanes, 1' buffer, 7' bike lane (WB return route on 4th St)	Implement Bike Boulevard / Traffic Calming Measures	(2) 10' travel lanes, 6' bike lane (WB return route on 4th St)	Deliniate or construct shared use path	N/A	Alternative			
	Garrard St to Johnson St	Y	- 36'	1-way (WB)	3	25 (Garrard to Scott), 35 (Scott to Johnson)	8,624 - 9,661	no parking	Remove 1 travel lane; (2) 10.5' travel lanes, 3' buffer, 12' bike lanes	Remove 1 travel lane; (2) 10.5' travel lanes, 3' buffer, 6' bike lane (WB return route on 2nd St)	Implement Bike Boulevard / Traffic Calming Measures	N/A traffic too high	-	1	Arterial			

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Covington + Newport Bicycle Transportation Study September 2023		Existing Conditions										Proposed Design Criteria <small>(Based on NACTO All Ages & Abilities Bicycle Facilities Guide)</small>				Recommendation	
		State Route	Width (Curb to Curb)	1-Way or 2-way	Number of Travel Lanes	Speed Limit (MPH)	Traffic Counts (ADIT)	On-Street Parking	Two-Way Protected Bike Lane	One-Way Protected Bike Lane	Conventional Bike Lane	Bicycle Boulevard	Alternative Concepts / Configurations	Priority	Bicycle Network		
																3' Buffer, 8-12' lanes (two-way) Target ADT = 3,000-6000+	3' Buffer, 5-7' lanes Target ADT = 3,000-6000+
4th Street	Johnson St to Main St	Y	- 48'	1-way (WB)	4 (w/ turn lanes)	25-35 MPH	9,661	no parking	Remove 1 travel lane. (3) 10' travel lanes, 3' buffer, 12' bike lanes	Remove 1 travel lane, 5' buffer, 7' bike lane, EB return route on Rivercenter / 2nd St	3' Buffer, 5-7' lanes Target ADT = 3,000-6000+	N/A traffic too high	-	1	Arterial		
	Main St to Bokewell St	Y	- 36'	1-way (WB)	3	35 MPH	7,432 - 9,661	no parking	Remove 1 travel lane. (2) 10.5' travel lanes, 3' buffer, 12' bike lanes	Remove 1 travel lane, 3' buffer, 9' bike lane (EB return route on 2nd St)	N/A traffic too high	N/A traffic too high	-	N/A	Alternative		
6th Street	Greenup St to Washington St	Y	36'	2-way	2 (turn lane at intersections)	25 - 35 MPH	1,710	both sides	Remove 1 parking lane. (2) 10' travel lanes, 7' parking lane, 1' buffer, 6' bike lanes	(2) 10' travel lanes, 8' parking lane, 6' bike lane (return route on 7th St)	Implement Bike Boulevard / Traffic Calming Measures	Implement Bike Boulevard / Traffic Calming Measures	-	2	Collector		
	Washington St to railroad underpass	N	36'	2-way	2	25 MPH	1,933	both sides	Remove 1 parking lane. (2) 10' travel lanes, 7' parking lane, 1' buffer, 6' bike lanes	Remove 1 parking lane. (2) 10' travel lanes, 8' parking lane, 6' bike lane (return route on 7th St)	Implement Bike Boulevard / Traffic Calming Measures	Implement Bike Boulevard / Traffic Calming Measures	-	2	Collector		
Sanford Alley	Railroad underpass to Goebel Park (SB median)	N	- 20' (- 90' including median)	2-way separated by median	2	25 MPH	-	both sides	Remove 1 parking lane, adjust medians (2) 10' travel lanes, 3' buffer, 6' bike lanes	Remove 2 parking lanes, adjust medians (2) 10' travel lanes, 3' buffer, 6' bike lanes	Implement Bike Boulevard / Traffic Calming Measures	Implement Bike Boulevard / Traffic Calming Measures	Reconfigure median for Shared Use Path / bicycle traffic	1	Collector		
	Garrard St to Riverside Drive	N	- 15'	2-way	1	25 MPH	-	no parking	N/A	N/A	Implement Green Alley & Bikeway Signage	Implement Green Alley & Bikeway Signage	-	1	Arterial		
Riverside Drive	Sanford Alley to Garrard St	N	- 28'	2-way	2	25 MPH	-	north side only	N/A	N/A	Implement Bike Boulevard / Traffic Calming Measures (Alternative to Garrard St)	Implement Bike Boulevard / Traffic Calming Measures (Alternative to Garrard St)	Reconfigure sidewalk and construct Shared Use Path (Alternative to Garrard St)	1	Arterial		
	Riverside Dr to 4th St	N	40'	2-way	2	25 (Riverside to Park), 30 (Park to 4th)	-	both sides	Remove 1 parking lane. (2) 10' travel lanes, 7' parking lane, 3' buffer, 10' bike lanes	Remove 1 parking lane. (2) 10' travel lanes, 7' parking lane, 3' buffer, 6' bike lane	N/A need return route	N/A traffic too high	-	1	Arterial		
Garrard Street	4th St to 5th St	Y	33'	1-way (NB)	2	25 MPH	3,625	west side only	Remove 1 parking lane. (2) 10' travel lanes, 3' buffer, 10' bike lanes	Remove 1 parking lane. (2) 10' travel lanes, 3' buffer, 10' bike lanes	N/A traffic too high	N/A traffic too high	-	1	Collector		
	5th St to 6th St	N	34'	2-way	2 (No CL)	25 MPH	-	both sides	Remove 2 parking lanes. (2) 10' travel lanes, 3' buffer, 11' bike lanes	Remove 2 parking lanes. (2) 10' travel lanes, 3' buffer, 7' bike lane (return route on Greenup St)	Implement Bike Boulevard / Traffic Calming Measures	Implement Bike Boulevard / Traffic Calming Measures	-	1	Collector		
	6th St to 7th St	N	27'	1-way (SB)	1	25 MPH	-	both sides	Remove 1 parking lane. (1) 10' travel lane, (2) 7' parking lane, 2' buffer, 8' bike lanes	Remove 1 parking lane. (1) 12' travel lane, (2) 7' parking lane, 4' bike lane (return route on Greenup St)	Implement Bike Boulevard / Traffic Calming Measures	Implement Bike Boulevard / Traffic Calming Measures	Reconfigure sidewalk and tree lawn to create 5' contraflow bike lane	1	Collector		
	7th St to 8th St	N	37'	1-way (SB)	1	25 MPH	-	both sides	Remove 1 parking lane. (1) 10' travel lane, (2) 7' parking lane, 3' buffer, 10' bike lanes	Remove 1 parking lane. (1) 10' travel lane, (2) 9' parking lane, 3' buffer, 6' bike lane (return route on Greenup St)	Implement Bike Boulevard / Traffic Calming Measures	Implement Bike Boulevard / Traffic Calming Measures	-	1	Collector		
	2nd St to 3rd St	N	- 39' (-20' at Roebling Way)	1-way (NB)	2 (w/ turn lanes)	25 MPH	-	west side only (parapet-sidewalk)	Remove 1 travel lane, 3' buffer, 9' bike lanes	Remove 1 travel lane, 3' buffer, 6' bike lane, (keep existing parking, return route on Scott St)	Remove travel/turn lane. (1) 11' travel lane, 5' buffer, 6' bike lane, (keep existing parking, return route on Scott St)	Implement Bike Boulevard / Traffic Calming Measures	Implement Bike Boulevard / Traffic Calming Measures	-	2	Collector	
Greenup Street	Greenup St / 3rd St Approach onto the Roebling Bridge (Roebling Way)	N	- 30'	1-way (NB)	2	25 MPH	2,879	no parking	N/A	Remove 1 travel lane. (1) 16' travel lane / shoulders, 4' buffer, 10' bike lane, install curb ramp to shared use path	N/A	N/A	-	2	Arterial		
	3rd St to 15th St	Y	39'	1-way (NB)	2	25 (except 30 Park to 5th & 6th to 7th)	4,145 - 6,043	both sides	Remove travel lane. (1) 12' travel lanes, (2) 7' parking lanes, 3' buffer, 10' bike lanes	Remove 1 travel lane. (1) 12' travel lane, (2) 8' parking lane, 4' buffer, 7' bike lane (return route on Scott St)	N/A traffic too high	N/A traffic too high	Remove 1 parking lane. (2) 11' travel lanes, 7' parking lane, 3' buffer, 7' one-way bike lane (return route on Scott St)	2	Arterial		
Scott Street	2nd St to Roebling Way	Y	- 39'	2-way (traffic off Roebling Bridge)	3	25 MPH	1,988	no parking	Remove 1 (SB) travel lane. (2) 12' travel lanes, 3' buffer, 12' bike lanes	Remove 1 (SB) travel lane. (2) 12' travel lane, 7' buffer, 6' bike lane (return route on Greenup St)	Implement Bike Boulevard / Traffic Calming Measures	Implement Bike Boulevard / Traffic Calming Measures	-	2	Collector		
	Roebling Way to 3rd St	N	- 24'	1-way (SB)	2	25 MPH	1,988	no parking	Remove 1 travel lane. (1) 10' travel lane, 2' buffer, 12' bike lanes	Remove 1 travel lane. (1) 12' travel lane, 4' buffer, 8' bike lane (return route on Greenup St)	Implement Bike Boulevard / Traffic Calming Measures	Implement Bike Boulevard / Traffic Calming Measures	-	2	Collector		

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		State Route	Width (Curb to Curb)	1-Way or 2-way	Number of Travel Lanes	Speed Limit (MPH)	Traffic Counts (ADT)	On-Street Parking	Two-Way Protected Bike Lane	One-Way Protected Bike Lane	Conventional Bike Lane	Bicycle Boulevard	Alternative Concepts / Configurations	Priority	Bicycle Network			
																3' Buffer, 8'-12' lanes (two-way) Target ADT = 3,000-4000+	3' Buffer, 5-7' lanes Target ADT = 3,000-6000+	Less than or equal to 25 MPH Target ADT = 1,500-3,000
Scott Street	Roebing Bridge Decent onto 3rd St / Scott St (Roebing Way)	Y	- 30'	1-way (SB)	2	25 MPH	1,243	no parking	N/A	3' Buffer, 1 travel lane; (1) 16' travel lane / shoulder, 4' buffer, 10' bike lane, install curb ramp off of shared use path	N/A	N/A	2	Arterial				
	3rd St to 15th St	Y	39'	1-way (SB)	2	25 (30 Park-5th & 6th-Pike & Bus-12th) (20 Pike-7th)	3,500 - 4,462	both sides	Remove 1 travel lane; (1) 12' travel lane, (2) 7' parking lanes, 4' buffer, 7' bike lane (return route on greenup St)	N/A traffic too high	N/A traffic too high	Remove 1 parking lane; (2) 11' travel lanes, (1) 7' parking lane, 3' buffer, 7' one-way bike lane (return route on Greenup)	2	Arterial				
	4th St to 5th St	N	36'	2-way	2 (w/turn lanes)	25 MPH	2,469	west side only	N/A too narrow	N/A need return route	N/A	Implement Bike Boulevard / Traffic Calming Measures	2	Arterial				
	5th St to 6th St	N	27'	2-way	2	25 MPH	2,469	east side only	N/A too narrow	N/A too narrow	Remove 1 parking lane; (2) 10' travel lanes, 7' bike lane (need return route)	Implement Bike Boulevard / Traffic Calming Measures	2	Arterial				
	6th St to Pike St	N	(Narrows from 30' to 23')	2-way	2 (w/turn lane at 6th St)	25 MPH	2,469	no parking	N/A too narrow	N/A too narrow	Remove 1 parking lane; (2) 10' travel lanes, 7' bike lane (need return route)	Implement Bike Boulevard / Traffic Calming Measures	2	Arterial				
Russell Street	Pike St to 9th St	N	27'	2-way	2	25 MPH	2,469	no parking	N/A too narrow	N/A too narrow	Remove 1 parking lane; (2) 10' travel lanes, (2) 7' parking lanes, 5' one-way bike lane (return route on Holman Ave)	Implement Bike Boulevard / Traffic Calming Measures	2	Arterial				
	9th St to 11th St	N	39'	2-way	2	25 MPH	2,469	both sides	Remove 1 parking lane; (2) 10' travel lanes, 7' parking lane, 3' buffer, 9' bike lane	Remove 1 parking lane; (2) 10' travel lanes, 9' parking lane, 3' buffer, 7' bike lane (return route on Holman Ave)	Implement Bike Boulevard / Traffic Calming Measures	2	Arterial					
	11th St to 12th St	Y	39'	2-way	2	25 MPH	3,117	both sides	Remove 1 parking lane; (2) 10' travel lanes, 7' parking lanes, 3' buffer, 9' bike lane	Remove 1 parking lane; (2) 10' travel lanes, 9' parking lane, 3' buffer, 7' bike lane, (return route on Holman Ave)	Implement Bike Boulevard / Traffic Calming Measures	2	Arterial					
	12th St to 15th St	N	39'	2-way	2	25 MPH	3,117	both sides	Remove 1 parking lane; (2) 10' travel lanes, 7' parking lanes, 3' buffer, 9' bike lane	Remove 1 parking lane; (2) 10' travel lanes, 9' parking lane, 3' buffer, 7' bike lane, (return route on Holman Ave)	Implement Bike Boulevard / Traffic Calming Measures	2	Arterial					
	15th St to Augustine St	N	- 39' (Augustine to 19th = 24')	2-way	2	25 MPH	3,117	both sides	Remove 1 parking lane; (2) 10' travel lanes, 7' parking lanes, 3' buffer, 9' bike lanes	Remove 1 parking lane; (2) 10' travel lanes, (2) 7' parking lanes, 5' bike lane (return route on Holman Ave)	Implement Bike Boulevard / Traffic Calming Measures	2	Arterial					
Robbins Street	Augustine St to 19th St	N	- 34'	2-way	2	25 MPH	-	both sides	N/A too narrow	Remove 1 parking lane; (2) 10' travel lanes, 7' parking lane, 7' bike lane (return route on Holman Ave)	Implement Bike Boulevard / Traffic Calming Measures	2	Arterial					
	Holman St to Russell St	N	- 27'	2-way	2	25 MPH	-	south side only	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	2	Collector					
Holman Avenue	9th St to Orchard St	N	- 27'	2-way	2	25 MPH	-	Robbins = east side only; Orchard to Robbins = west side only	N/A too narrow	N/A too narrow	Remove 1 parking lane; (2) 10.5' travel lanes, 6' bike lane (return route on Russell St)	Implement Bike Boulevard / Traffic Calming Measures	2	Collector				
	Orchard St to 15th	N	- 39'	2-way	2	25 MPH	-	both sides	Remove 1 parking lane; (2) 10' travel lanes, 7' parking lanes, 3' buffer, 9' bike lane	Remove 1 parking lane; (2) 10' travel lanes, (2) 7' parking lanes, 5' bike lane (return route on Russell St)	Implement Bike Boulevard / Traffic Calming Measures	2	Arterial					
	15th St to 19th St	N	39'	2-way	2	25 MPH (Pike to 12th) 35 MPH (12th to 19th)	-	both sides	Remove 1 parking lane; (2) 10' travel lanes, 7' parking lanes, 3' buffer, 9' bike lane	Remove 1 parking lane; (2) 10' travel lanes, (2) 7' parking lanes, 5' bike lane (return route on Russell St)	Implement Bike Boulevard / Traffic Calming Measures	2	Arterial					
12th Street / Girl Scout Bridge	Brighton St to Prospect St	Y	56' (Deck = 62.5)	2-way	4	30 MPH	14,549	no parking	Remove 1 (WB) travel lane; (3) 12' travel lanes, 6' shoulder space, 2' jersey barrier, 12' bike lanes	N/A alignment issues on Covington side	N/A traffic too high	2	Arterial					

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		Street	Blocks / Street Section	State Route	Width (Curb to Curb)	1-Way or 2-way	Number of Travel Lanes	Speed Limit (MPH)	Traffic Counts (ADT)	On-Street Parking	Two-Way Protected Bike Lane	One-Way Protected Bike Lane	Conventional Bike Lane	Bicycle Boulevard	Alternative Concepts / Configurations	Priority	Bicycle Network	
																		2-Way Protected Bike Lane
	Dicky Beal Dr to 11th St	Y	-27' (Varies w/ Wheeler St)	1-way (NB)	2	25 MPH	4,610	no parking	Remove 1 travel lane; (1) 12' travel lane, 3' buffer, 12' bike lanes (Bike Lane follows Wheeler Street Sign Lane at 11th)	N/A need return route	N/A traffic too high	N/A traffic too high	Traffic Calming, Signage, Pavement Markings Target ADT = 0-5,000	-	1	Arterial		
Prospect Street	11th St to Robbins St	N	-32' (-24' w/ 8' bump out parking lane)	2-way	2 (No CL)	25 MPH	-	west side only	Remove 1 travel lane & convert one-way; (1) 10' travel lane, 8' parking lane (bump out), 3' buffer, 11' bike lanes (east side)	N/A need return route	(2) 9' travel lanes, 8' parking lane (bump out), 8' bike lane (east side)	Implement Bike Boulevard / Traffic Calming Measures	-	1	Arterial			
	Robbins St to 10th St	N	-24'	2-way	2 (No CL)	25 MPH	-	no parking	Remove 1 travel lane & convert one-way; (1) 11' travel lane, 3' buffer, 8' bike lanes (east side)	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	Close street to vehicular traffic	1	Arterial			
	10th St to 9th St	N	-24' (9th St + 22')	1-way (NB / WB)	1	25 MPH	-	no parking	Delimitate 11' travel lane, 3' buffer, 8' bike lanes (east side)	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	Close street to vehicular traffic	1	Arterial			
	Prospect St to Greenup St	Y	20'	1-way (WB)	2	25 MPH	4,610	south side only	Remove 1 travel lane; (1) 10' travel lane, 7' parking lane, 3' buffer, 9' bike lanes	(1) 12' travel lane, 7' parking lane, 3' buffer, 7' bike lane (return route on Bush St)	N/A traffic too high	N/A traffic too high	-	1	Arterial			
11th Street	Greenup St to Scott St (40' median) / BF Howard Park	Y	-20' (WB); 26' (SB) (-40' Median)	1-way (EB / WB)	2 WB, 1 EB (median)	25 MPH	4,610	south side (EB) only	Remove 1 travel lane; (1) 10' travel lane, 2' buffer, 8' bike lanes	(1) 12' travel lane, 7' parking lane, 3' buffer, 7' bike lane (return route on Bush St)	N/A traffic too high	N/A traffic too high	Construct Shared Use Path in median	1	Arterial			
	Scott to Madison	Y	-29'	2-way	2	30 MPH	< 1,000	no parking	Reconfigure sidewalk; (2) 10' travel lanes, 3' buffer, 8' bike lanes	N/A	N/A	N/A	-	1	Arterial			
	Madison Ave to Russell St	Y	-26'	2-way	2	25 MPH	< 1,000	both sides	N/A - Bike / Ped Bridge Over RR	N/A - Bike / Ped Bridge Over RR	N/A - Bike / Ped Bridge Over RR	Implement Bike Boulevard / Traffic Calming Measures, install ADA compliant curb ramps to bike / ped bridge	N/A - Bike / Ped Bridge Over RR	1	Arterial			
12th Street / MLK Blvd	Russell St to Main St (15' landscape medians with trees)	Y	-36' EB & WB (-87' including median)	2-way	4	30 MPH (except 25 Russell to Banklick)	15,179-6,533	both sides	WB Direction Only (North Side) Remove 1 parking lane; (2) 10.5' travel lanes, 3' buffer, 12' bike lanes	BOTH EB & WB Directions (2) 10' travel lanes, 7' parking lane, 3' buffer, 6' bike lane (both sides)	N/A traffic too high	N/A traffic too high	Reconfigure median to add shared use path	2	Arterial			
	Main St to Simon Kenton Way (Simon Kenton being replaced by new BSB Collector Road)	Y	-35' EB & WB (Narrow from -87' to 60' with an -11' median)	2-way	4	30 MPH	15,179	both sides	WB Direction Only (North Side) Remove 1 parking lane; (2) 10.5' travel lanes, 3' buffer, 12' bike lane	BOTH EB & WB Directions (2) 10' travel lanes, 7' parking lane, 3' buffer, 6' bike lane (both sides)	N/A traffic too high	N/A traffic too high	Incorporate shared use path into BSB plan via 2th St on Main St / Simon Kenton Way	2	Arterial			
W 9th Street	BSB Collector to Baker St	N	-26'	2-way	2 (No CL)	25 MPH	-	north side only	N/A too narrow	N/A too narrow	Remove 1 parking lane; (2) 10' travel lane, 6' bike lane (WB return route on Lewis St)	Implement Bike Boulevard / Traffic Calming Measures	-	3	Arterial			
	Western Ave to Baker St	N	-22'	1-way (EB)	1	25 MPH	-	north side only	N/A too narrow	N/A too narrow	(1) 10' travel lane, 7' parking lane, 5' bike lane (WB return route on Lewis St)	Implement Bike Boulevard / Traffic Calming Measures	-	3	Arterial			
Western Avenue	Perry St to Holman St / Pike St	N	-28'	2-way	2 (No CL)	35 MPH	-	north side only	N/A too narrow	N/A need return route	N/A need return route	Lower Speed Limit and Implement Bike Boulevard / Traffic Calming Measures	-	2	Collector			
	W 9th St to Pike St	N	-22'	2-way	2 (No CL)	25 MPH	-	east side only	N/A too narrow	N/A too narrow and need return route	N/A too narrow and need return route	Implement Bike Boulevard / Traffic Calming Measures	-	3	Arterial			
Lewis Street	Pike St to Montague Rd	N	-22' (-20' Baker to Pike)	1-way (WB)	1	25 MPH	1,656	south side only	N/A too narrow	N/A too narrow	(1) 10' travel lanes, 7' parking lane, 5' bike lane (EB return route on 9th St and Montague)	Implement Bike Boulevard / Traffic Calming Measures	-	3	Arterial			
Montague Road	Amsterdam Rd to Pike St	N	-24'	1-way (EB)	1	25 MPH	1,254	north side only	N/A too narrow	N/A too narrow	(1) 10' travel lanes, 7' parking lane, 7' bike lane (WB return route on Lewis St)	Implement Bike Boulevard / Traffic Calming Measures	-	3	Arterial			
Short Parsling Avenue	6th St to 8th St (Alleyway)	N	-10'	2-way (alleyway)	1	-	-	no parking	N/A too narrow	N/A too narrow	N/A too narrow	Implement Green Alley & Bikeway Signage	-	2	Collector			
Perry Street	8th St to 9th St	N	-12'	1-way (NB)	1	25 MPH	-	no parking (people park on sidewalk)	N/A too narrow	N/A too narrow	N/A too narrow	Implement Green Alley & Bikeway Signage	-	2	Collector			

These concepts were produced using NACTO design standards and require further study for engineering feasibility and design.

Appendix A: Covington Bicycle Facility Options Matrix

Covington + Newport Bicycle Transportation Study September 2023			Existing Conditions										Proposed Design Criteria <small>(Based on NACTO All Ages & Abilities Bicycle Facilities Guide)</small>					Recommendation	
			State Route	Width (Curb to Curb) / 7th St.)	1-Way or 2-way	Number of Travel Lanes	Speed Limit (MPH)	Traffic Counts (ADT)	On-Street Parking	Two-Way Protected Bike Lane	One-Way Protected Bike Lane	Conventional Bike Lane	Bicycle Boulevard	Alternative Concepts / Configurations	Priority	Bicycle Network			
Pike Street		Y	- 39'	2-way	2	30 MPH (Philadelphia+York, Main+Green; 25 (Main+Main, Russell+Washington); 20 (Green+Russell))	4,230	both sides	Remove 1 parking lane; (2) 10' travel lanes, 7' parking lane, 3' buffer, 9' bike lane	N/A need return route	N/A traffic too high	Implement Bike Boulevard / Traffic Calming Measures	-	3	Concept				
Washington Street		Y	- 38'	2-way	2	25 MPH	-	both sides (south of Innovation Alley)	Remove 1 parking lane; (2) 10' travel lanes, 7' parking lanes, 3' buffer, 8' bike lane	N/A need return route	N/A need return route	Implement Bike Boulevard / Traffic Calming Measures	-	3	Concept				
Chesapeake Street		N	- 12'	2-way	1	25 MPH	-	no parking	N/A too narrow / alleyway	N/A too narrow / alleyway	Implement Bike Boulevard / Green Alley	-	1	Collector					
13th Street		N	- 28'	2-way	2	25 MPH	-	north side only	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	Reconfigure sidewalk and construct shared use path	1	Collector					
15th Street		N	- 26'	2-way	2 (No CL)	25 MPH	-	north side only	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	-	2	Collector					
Madison Avenue		Y	- 40'	2-way	3 (w/ turn lanes & striping)	25 MPH	10,945	no parking	(2) 10' travel lanes, 10' two-way turn lane, 2' buffer, 8' bike lanes	N/A need return route	N/A need return route	N/A traffic too high	3	Collector					
19th Street		Y	- 26'	2-way	2	25 MPH	5,702	no parking	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	Reconfigure sidewalk and construct shared use path OR route behind police facility	3	Collector					
		Y	- 40'	2-way	2	25 MPH	5,974	both sides	Remove 1 parking lane; (2) 10' travel lanes, 7' parking lanes, 3' buffer, 10' bike lane	N/A need return route	N/A need return route	N/A traffic too high	3	Collector					
20th Street		N	- 27'	2-way	2 (No CL)	25 MPH	-	north side only	N/A too narrow	N/A need return route	Implement Bike Boulevard / Traffic Calming Measures	-	3	Collector					
		N	- 20'	2-way	2 (No CL)	25 MPH	-	no parking	N/A too narrow	N/A need return route	Implement Bike Boulevard / Traffic Calming Measures	Reconfigure sidewalk and construct shared use path	3	Collector					
Howell Street		N	25'	2-way	2	25 MPH	-	west side only	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	-	1	Arterial					
		N	Widens from 25' to 42'	2-way	2	25 MPH	-	both sides	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	-	1	Arterial					
		N	24'	2-way	2	25 MPH	-	east side only	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	-	1	Arterial					
Herman Street		N	28'	2-way (Meganite 1-Way)	2	25 MPH	-	both sides	N/A too narrow	N/A need return route	Implement Bike Boulevard / Traffic Calming Measures	-	1	Arterial					
Meganite St		N	18'	1-way	1	25 MPH	-	no parking	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	Delimitate & control low bike lane for WB traffic	1	Arterial					
26th Street		N	25' (21' RR Bridge)	2-way	2	25 MPH	-	no parking	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	-	1	Arterial					
Madison Ave / KY 16		Y	66' - 80'	2-way	4/5 (w/ turn lane)	25 (25th to Leveassor Pl) 30 (Leveassor Pl to 26th St)	17,038	no parking	N/A too narrow	N/A traffic too high	N/A traffic too high	Construct Shared Use Path	1	Arterial					
W Castle Court		N	21'	-	2	-	-	no parking	N/A too narrow	N/A need return route	Implement Bike Boulevard / Traffic Calming Measures	Construct Shared Use Path	2	Arterial					
Thomas Street		N	- 31'	2-way	2 (No CL)	25 MPH	-	north side only	N/A too narrow	N/A need return route	Implement Bike Boulevard / Traffic Calming Measures	-	3	Collector					
Eastern Avenue		N	- 27'	2-way	2	25 MPH	2,550	west side only	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	-	3	Collector					
		N	Narrows from - 27' to 24'	2-way	2	25 MPH	2,550	no parking	N/A too narrow	N/A need return route	Implement Bike Boulevard / Traffic Calming Measures	Advisory Bike Lanes: 112' two-way travel lane, 2 5' bike lanes	3	Collector					
Eastern Avenue		N	(narrows to - 28' Adams & James)	2-way	2	25 MPH	2,550	no parking	N/A too narrow	N/A need return route	Implement Bike Boulevard / Traffic Calming Measures	Construct Shared Use Path	1	Arterial					

These concepts were produced using NACTO design standards and require further study for engineering feasibility and design.

Appendix A: Covington Bicycle Facility Options Matrix

Covington + Newport Bicycle Transportation Study September 2023			Existing Conditions										Proposed Design Criteria <small>(Based on NACTO All Ages & Abilities Bicycle Facilities Guide)</small>					Recommendation	
			State Route	Width (Curb to Curb)	1-Way or 2-way	Number of Travel Lanes	Speed Limit (MPH)	Traffic Counts (ADT)	On-Street Parking	Two-Way Protected Bike Lane	One-Way Protected Bike Lane	Conventional Bike Lane	Bicycle Boulevard	Alternative Concepts / Configurations	Priority	Bicycle Network			
James Avenue	26th St to Eastern Ave	-36' (26th to Madison = -84')	2-way	3 (2-way turn lane, awkward intersection w/ Madison)	30 MPH	9,539	no parking	N/A - cannot remove lanes	N/A - cannot remove lanes	N/A - cannot remove lanes	Traffic Calming, Signage, Pavement Markings Target ADT = 0-5,000	Construct Shared Use Path	1	Arterial					
Frazier Street	Eastern Ave to Frazier St	-36'	2-way	3 (2-WLTL)	30 MPH	9,539	no parking	N/A - cannot remove lanes	N/A - cannot remove lanes	N/A - cannot remove lanes	N/A traffic too high	Construct Shared Use Path	1	Arterial					
Church Street	30th St to 32nd St	-29'	2-way	2 (No CL)	25 MPH	-	both sides	N/A too narrow	N/A need return route	N/A need return route	Implement Bike Boulevard / Traffic Calming Measures	-	1	Arterial					
	32nd St to 33rd St	Varies from -23' to 30'	2-way	3 (No CL)	25 MPH	-	east side only	N/A too narrow	N/A need return route	N/A need return route	Implement Bike Boulevard / Traffic Calming Measures	-	1	Arterial					
Church Street	Church St to Winchester St	-36'	2-way	2	25 MPH	-	both sides	N/A too narrow	N/A need return route	N/A need return route	Implement Bike Boulevard / Traffic Calming Measures	-	1	Arterial					
	33rd St to 36th St	-36'	2-way	2 (No CL)	25 MPH	-	both sides	N/A too narrow	N/A need return route	N/A need return route	Implement Bike Boulevard / Traffic Calming Measures	(1) 10' travel/shared lane, (2) 7' parking lanes, delineate 6' contraflow bike lane	1	Collector					
Church Street	36th St to Southern Ave	-30'	1-way (NB)	1	25 MPH	-	both sides	N/A too narrow	N/A need return route	N/A need return route	Implement Bike Boulevard / Traffic Calming Measures	-	1	Collector					
	Southern Ave to Decoursey Ave	-30'	2-way	2 (No CL)	25 MPH	-	east side only	N/A too narrow	N/A need return route	N/A need return route	Implement Bike Boulevard / Traffic Calming Measures	-	1	Collector					
Winchester Ave / 34th St	Decoursey Ave to 63rd St	-30'	2-way	2 (No CL)	25 MPH	-	both sides	N/A too narrow	N/A need return route	N/A need return route	Implement Bike Boulevard / Traffic Calming Measures	-	1	Collector					
	33rd St to Proposed LRG Corridor	-30'	2-way	2 (No CL)	25 MPH	-	both sides	N/A too narrow	N/A	N/A	Implement Bike Boulevard / Traffic Calming Measures	-	3	Arterial					
Southern Ave	Church St to Huntington Ave	-38'	2-way	2 (No CL)	25 MPH	-	both sides	Remove 1 parking lane; (2) 10' travel lanes, 7' parking lanes, 3' buffer, 8' bike lane	N/A need return route	N/A need return route	Implement Bike Boulevard / Traffic Calming Measures	-	2	Collector					
	Glenn Ave to Huntington Ave (RR Crossing)	-24' (Glenn-RR); -39' (RR-Huntington)	2-way	2	25 MPH	-	both sides	N/A - RR Crossing	N/A - RR Crossing	N/A - RR Crossing	Implement Bike Boulevard / Traffic Calming Measures	-	3	Arterial					
Glenn Avenue	Proposed LRG Corridor to E Southern Ave	24'	2-way	2	25 MPH	-	both sides	N/A too narrow	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	-	3	Arterial					
Huntington Avenue	E Southern Ave to 40th St	-40'	2-way	2 (No CL)	25 MPH	-	both sides	Remove 1 parking lane; (2) 10' travel lanes, 7' parking lanes, 3' buffer, 10' bike lane	N/A need return route	N/A need return route	Implement Bike Boulevard / Traffic Calming Measures	-	2	Arterial					
	40th St to 44th St	30'	2-way	2 (No CL)	25 MPH	-	both sides	Remove 1 parking lane; (2) 10' travel lanes, 7' parking lanes, 3' buffer, 8' bike lane	N/A	N/A	Implement Bike Boulevard / Traffic Calming Measures	Construct Shared Use Path	2	Arterial					
Clifford Avenue	Daniel Goodenough Ct to Southern Ave (Unnamed Alley from Southern Ave to 35th)	-45' (10' islands/median)	2-way	2 (median)	25 MPH	-	both sides	N/A too narrow	N/A too narrow	N/A too narrow	Implement Bike Boulevard / Traffic Calming Measures	Reconfigure Median and Construct Shared Use Path	2	Arterial					
35th St	Unnamed Alley to Latonia Ave	-39'	2-way	2	25 MPH	-	both sides	Remove 1 parking lane; (2) 10' travel lanes, 7' parking lanes, 3' buffer, 9' bike lane	N/A	N/A	Implement Bike Boulevard / Traffic Calming Measures	Reconfigure sidewalk and/or street and construct Shared Use Path	2	Arterial					
Latonia Avenue	35th to Railroad Underpass	-36'	2-way	2	25 MPH	4,080	both sides	N/A	N/A	N/A traffic too high	N/A traffic too high	Reconfigure sidewalk and/or street and construct Shared Use Path	2	Arterial					
43rd Street	Railroad Underpass to Winston Ave	-26'	2-way	2	25 MPH	4,080	no parking	N/A	N/A	N/A traffic too high	N/A traffic too high	Construct Shared Use Path	2	Arterial					
	Winston Ave to Church St	-29'	1-way	1	25 MPH	-	both sides	Remove 1 parking lane; (1) 10' travel lanes, 7' parking lanes, 3' buffer, 8' bike lanes	N/A	N/A	N/A - one-way traffic	Remove 1 parking lane; (1) 12' travel/shared lane, 9' parking lane, delineate 6' contraflow bike lane	1	Collector					
40th Street	Church St to Decoursey Ave	-30'	1-way	1	25 MPH	-	both sides	Remove 1 parking lane; (1) 10' travel lanes, 7' parking lanes, 3' buffer, 10' bike lanes	N/A need return route	N/A need return route	N/A - one-way traffic	(1) 10' travel/shared lane, (2) 7' parking lanes, delineate 6' contraflow bike lane	3	Collector					
40th Street	Decoursey Ave to Huntington	-30'	2-way	2	25 MPH	-	south side only	N/A too narrow	N/A need return route	N/A need return route	Implement Bike Boulevard / Traffic Calming Measures	Reconfigure sidewalk and/or street and construct Shared Use Path	3	Collector					
Winston Ave / Madison Ave / KY 17	43rd to Howard Litzler Rd	-65'	2-way	5 (2-WLTL)	35 MPH	19,473	no parking	N/A traffic too high	N/A traffic too high	N/A traffic too high	N/A traffic too high	Construct Shared Use Path	1	Arterial					
	Highland Pike to Pioneer Park	Varies	2-way	Varies	55 MPH	35,721	no parking	N/A traffic too high	N/A traffic too high	N/A traffic too high	N/A traffic too high	Construct Shared Use Path	2	Arterial					
Pioneer Park to Hands Pike	2-way	Varies	2-way	Varies	55 MPH	35,721	no parking	N/A traffic too high	N/A traffic too high	N/A traffic too high	N/A traffic too high	Construct Shared Use Path	3	Arterial					

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Appendix A: Covington Bicycle Facility Options Matrix

Covington + Newport Bicycle Transportation Study September 2023		Existing Conditions										Proposed Design Criteria <i>(Based on NACTO All Ages & Abilities Bicycle Facilities Guide)</i>					Recommendation	
		State Route	Width (Curb to Curb)	1-Way or 2-way	Number of Travel Lanes	Speed Limit (MPH)	Traffic Counts (ADT)	On-Street Parking	Two-Way Protected Bike Lane	One-Way Protected Bike Lane	Conventional Bike Lane	Bicycle Boulevard	Alternative Concepts / Configurations	Priority	Bicycle Network			
Hends Pike	Madison Pk / KY 17 to Taylor Mill Rd / KY 16	N	Varies	2-way	2/3 (w/ turn lanes)	35 MPH	2,614 - 7,953	no parking	N/A traffic too high	N/A traffic too high	N/A traffic too high	Construct Shared Use Path	3	Arterial				
5 roads that make up South Covington Collector Route	Crystal Lake Dr, Bluffsides Dr, Meadow Hill Dr, Green Hill Dr, Sugar Camp Road	N	-	-	-	-	-	no parking	-	-	Implement Bike Boulevard / Traffic Calming Measures	-	3	Collector				
Highland Ave	Howell St to Benton Rd	Y	- 27'	2-way	2	25 MPH	4,808	south side only	N/A too narrow	N/A	Implement Bike Boulevard / Traffic Calming Measures	Reconfigure sidewalk to construct Shared Use Path	3	Arterial				
	Benton Rd to Henry Clay Ave	Y	- 40'	2-way	2	25 MPH	4,808	both sides	Remove 1 parking lane; (2) 10' travel lanes, 7' parking lanes, 3' buffer, 10' bike lanes	N/A	Implement Bike Boulevard / Traffic Calming Measures	Reconfigure sidewalk to construct Shared Use Path	3	Arterial				
	Henry Clay Ave to Fort Wright	Y	- 22'	2-way	2	25 MPH	4,808	no parking	N/A too narrow	N/A	Implement Bike Boulevard / Traffic Calming Measures	Construct Shared Use Path	3	Arterial				