

BROADWAY FEASIBILITY STUDY

Scenario Descriptions

All Scenarios

- No parking (Kmart to Wabash St)
- Bike lanes (Kmart to Wabash St)
- Protected left turns (Wabash & 14th St)
- Traffic signal coordination
- Close northbound Fairfield Ave

Scenario 1.0

- Traffic signal at Hawthorne St
- Traffic signal at Clark St
- Raised median 12' wide with openings at signalized intersections (McCullens to 4th/5th St)
- Raised median 2.5' wide (Cedar to 5th St)
- Left turns restricted during peak hours (Clark St & Washington St)
- Bike lanes (Cedar to 4th/5th St)

Scenario 2.0

- Turn restrictions at Hawthorne St
- Raised median 12' wide with openings at signalized intersections (McCullens St to Cedar St)
- Raised median 2.5' wide (Cedar to 5th St)
- Left turns restricted during peak hours (Clark St & Washington St)
- Bike lanes (Cedar to 4th/5th St)

Scenario 3.0

- Traffic signal at Hawthorne St
- Raised median 12' wide with midblock & signalized intersection openings (McCullens St to 4th/5th St)

Scenario 4.0

- Traffic signal at Hawthorne St
- Add dedicated right turn on Henderson St
- Raised median 12' wide with midblock & signalized intersection openings (McCullens St to 4th/5th St)

Scenario 5.0

- Turn restrictions at Hawthorne St
- Raised median 12' wide with midblock & signalized intersection openings (McCullens St to 4th/5th St)

Scenario 6.0

- Turn restrictions at Hawthorne St
- Add dedicated right turn on Henderson St
- Raised median 12' wide with midblock & signalized intersection openings (McCullens St to 4th/5th St)

Corridor Improvements						
Scenario	1.0	2.0	3.0	4.0	5.0	6.0
Raised median (openings at signalized intersections)	✓	✓				
Raised median (openings at signalized intersections & midblock)			✓	✓	✓	✓
Hawthorne St. traffic signal	✓		✓	✓		
Hawthorne St. turn restrictions		✓			✓	✓
Clark St. traffic signal	✓					
Henderson St. additional right turn lane				✓		✓
Bike lanes (Cedar St. to 4th/5th St.)	✓	✓				

Scenario Performance Measures							
	Scenarios						
	Base*	1.0	2.0	3.0	4.0	5.0	6.0
Vehicle Operations							
Travel time in minutes	8:46	8:28	7:54	8:25	8:49	8:18	7:50
Vehicle Safety							
Decreased number of left turn conflicts	~100	~100	~90	~90	~90	~90	~90
Increased number of protected left turn movements at signals	12	4	8	8	4	4	4
Bicycle Safety/Mobility							
Additional bike lane length in miles	2.5	2.5	2.0	2.0	2.0	2.0	2.0
Pedestrian Safety/Mobility							
Increased number of protected crosswalks	9	1	5	5	1	1	1
*Base scenario calculated using computer modeling of future traffic conditions for the year 2020. All scenario travel times are provided for comparison purposes.							