TPPB Agenda 2.17.20 Item E.4.

Madison East-West Bus Rapid Transit (BRT) Planning Study

Downtown Route Options – February 3, 2020

MADISON DEPARTMENT

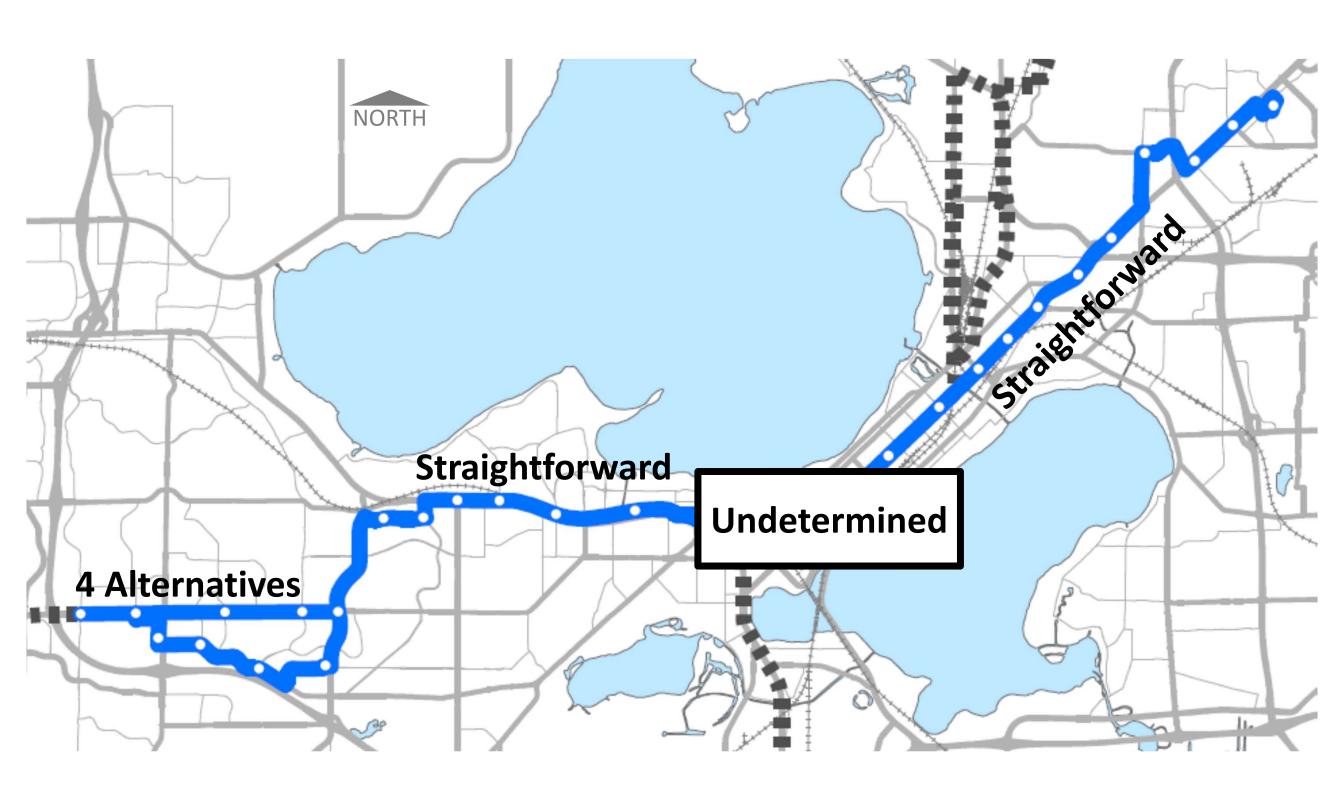


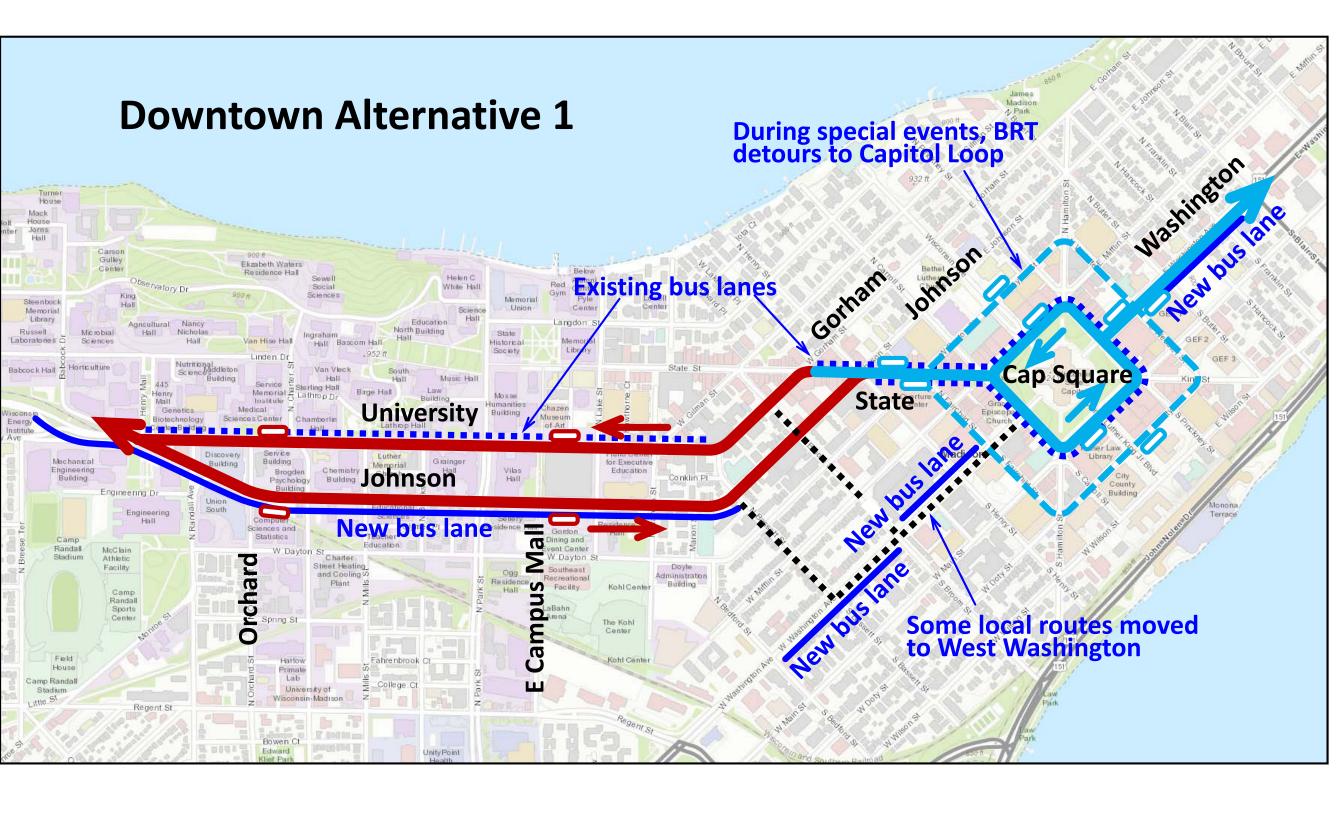
Downtown Routing Goals and Objectives

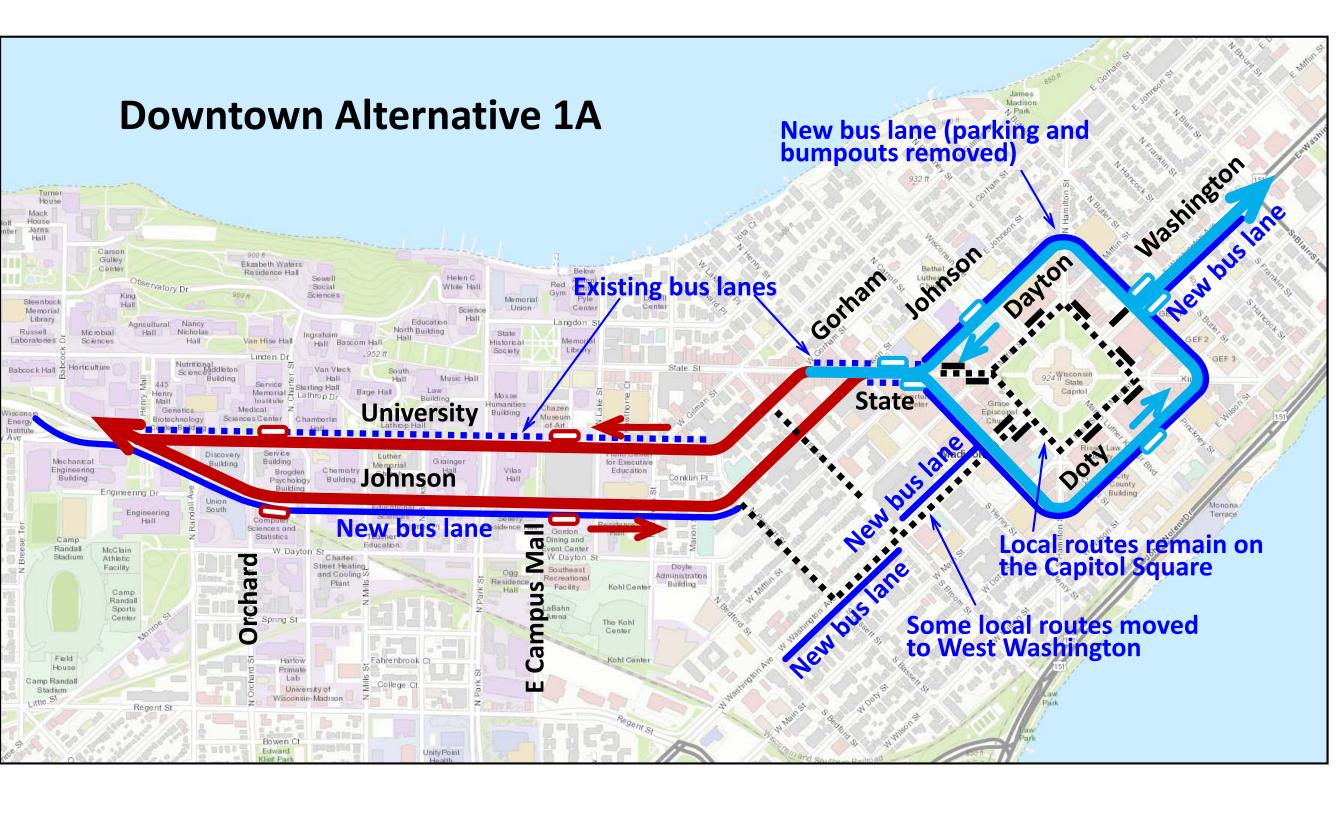
- Serve important regional destinations (State Street, Capitol Square, Monona Terrace, government offices)
- Provide dedicated running way (bus lanes)
- Provide good BRT station locations. These locations:
- Minimize and/or accommodate detours.
- Provide convenient transfers from BRT to local Metro routes.

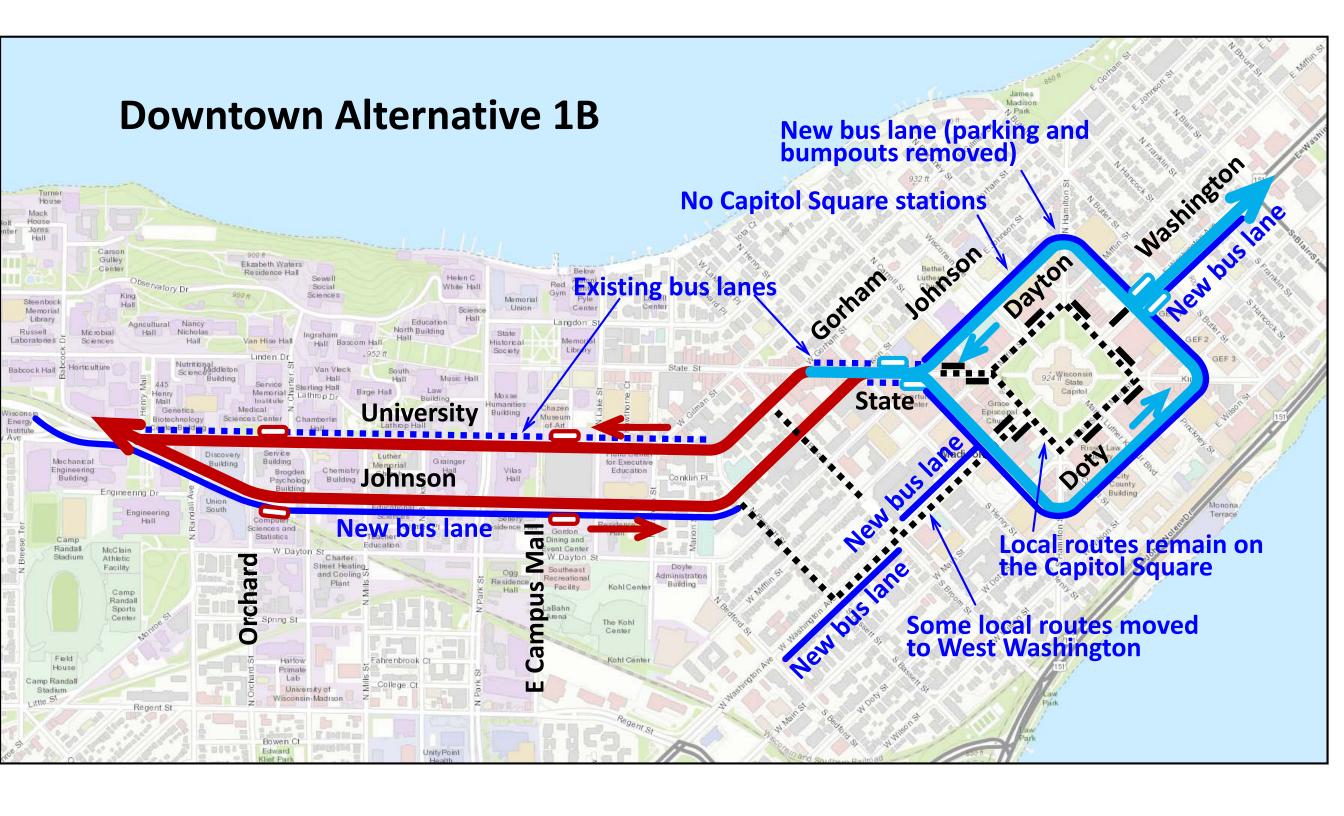
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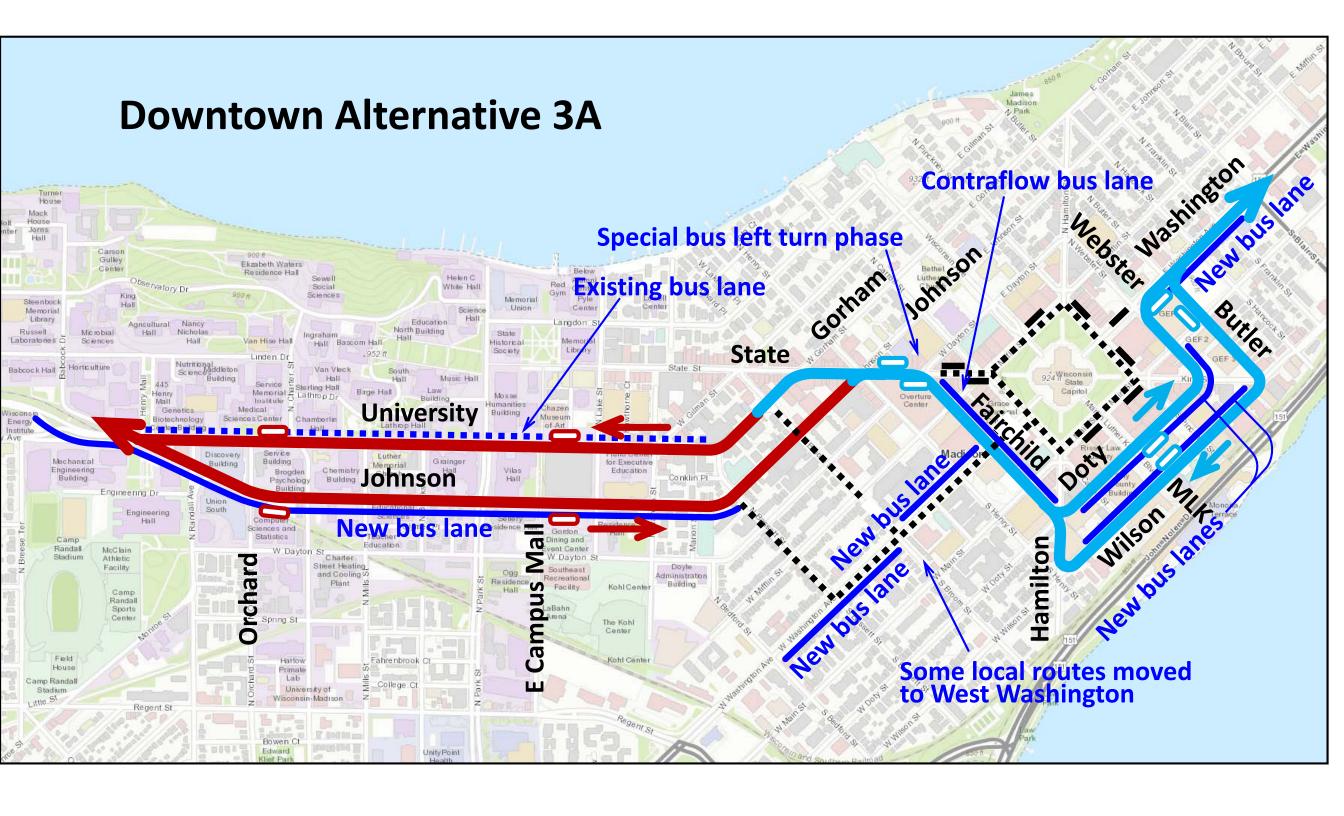
- Minimize BRT travel times
- Minimize traffic impacts
- Accommodate local bus integration
- Minimize impacts to on-street parking and parking revenue lost
- Accommodate and address bike traffic











Dismissed Alternatives



Alt 2 – Broom/Henry

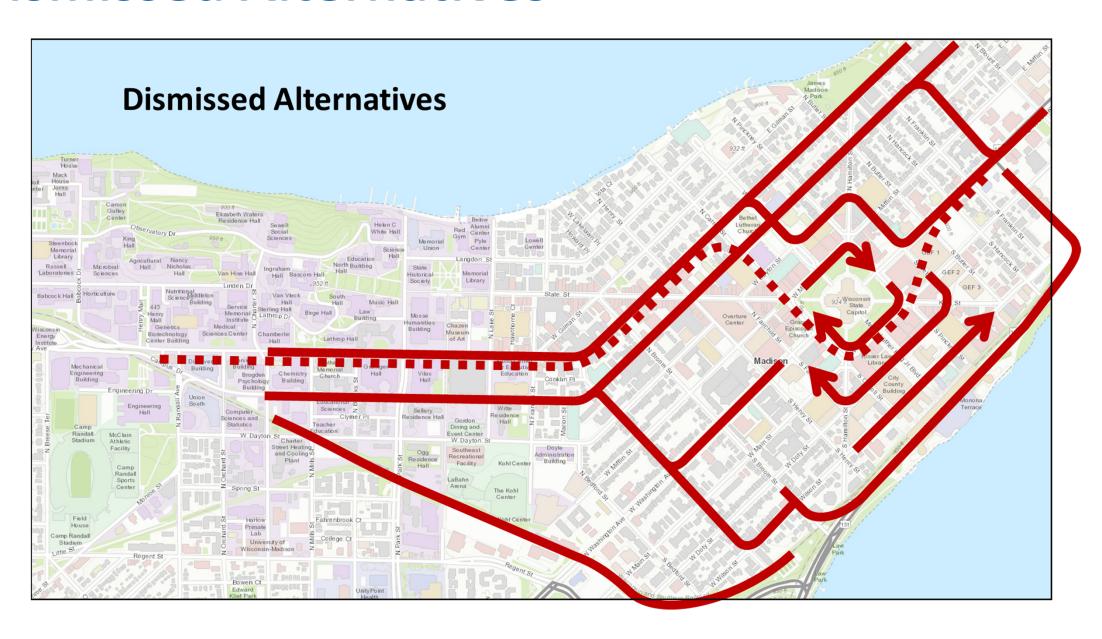
Unreliable during Overture Center Events



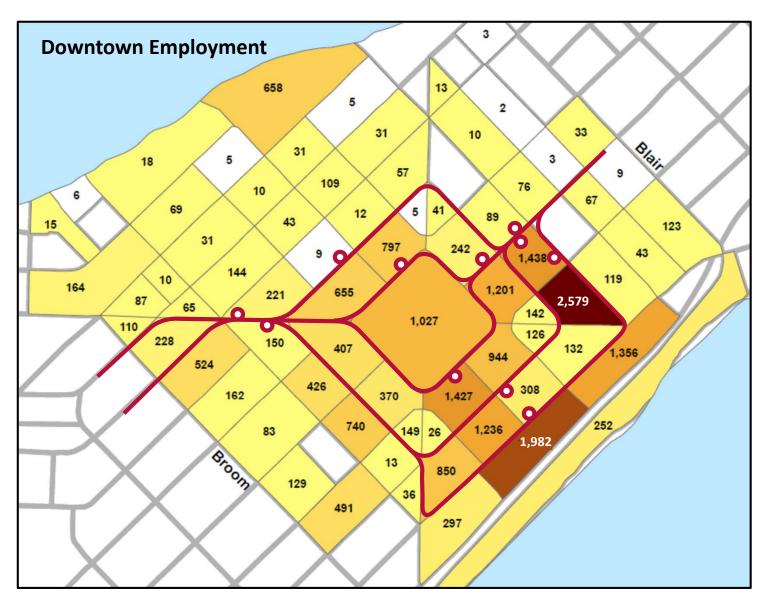
Alt 3 – Two-way Broom

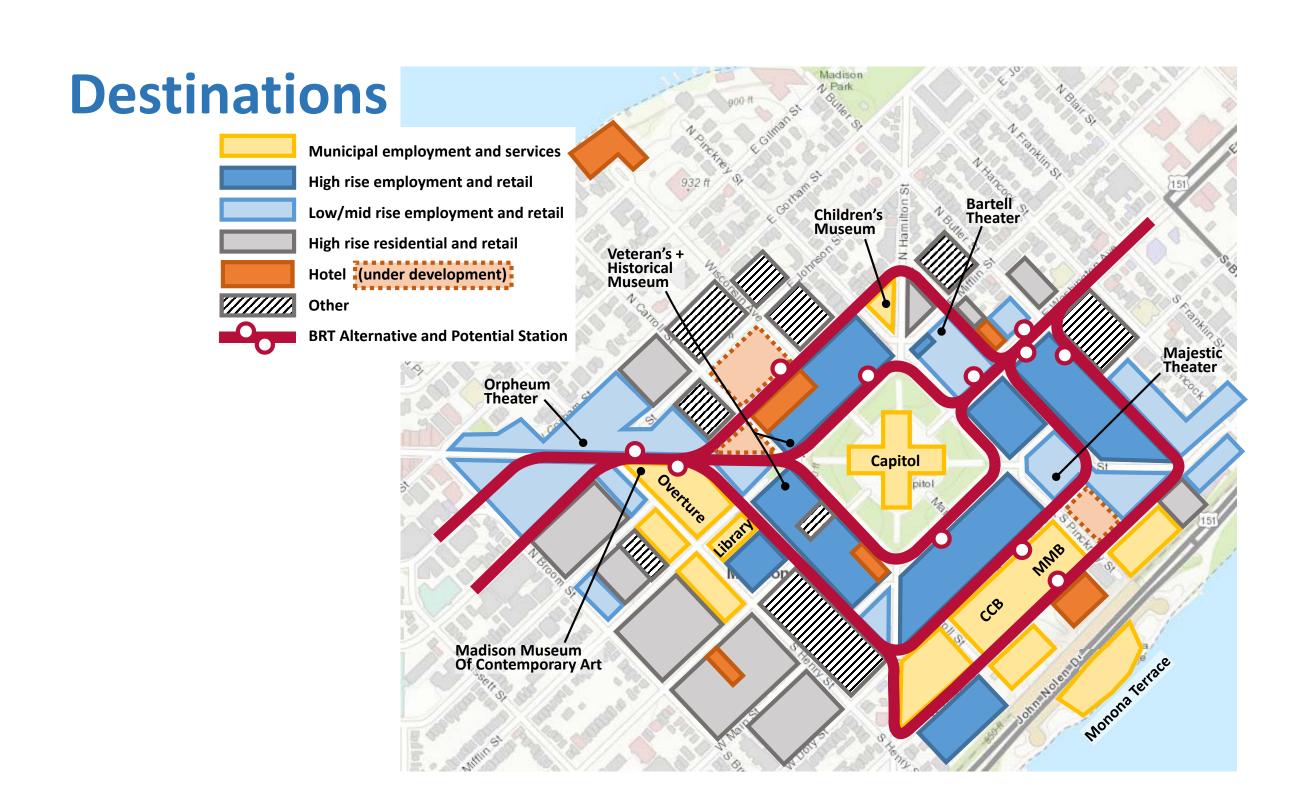
Insufficient access to State Street

Dismissed Alternatives



Employment





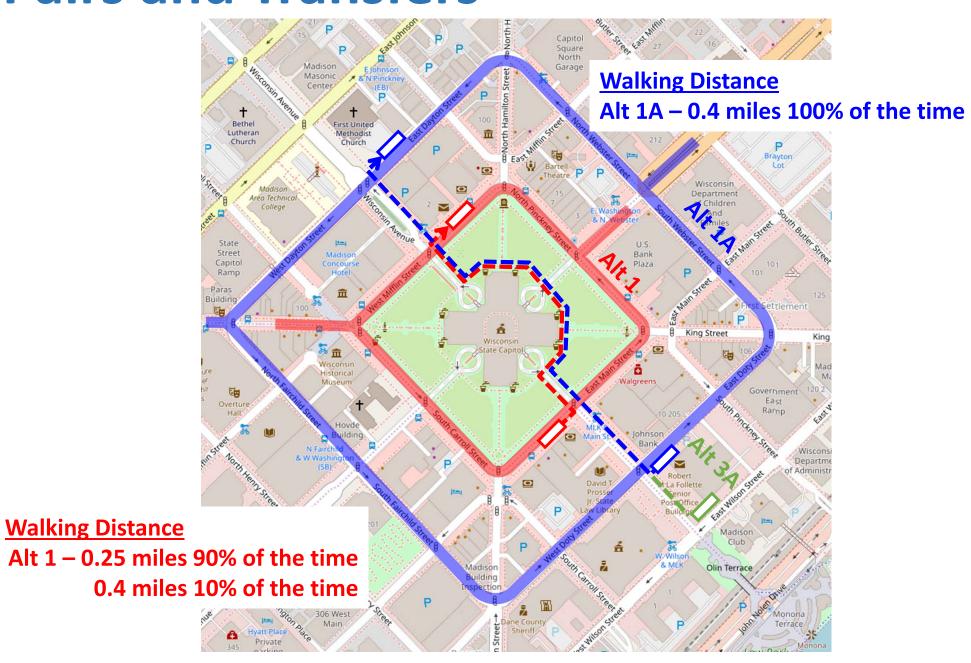
Dedicated Runningway

Alternative

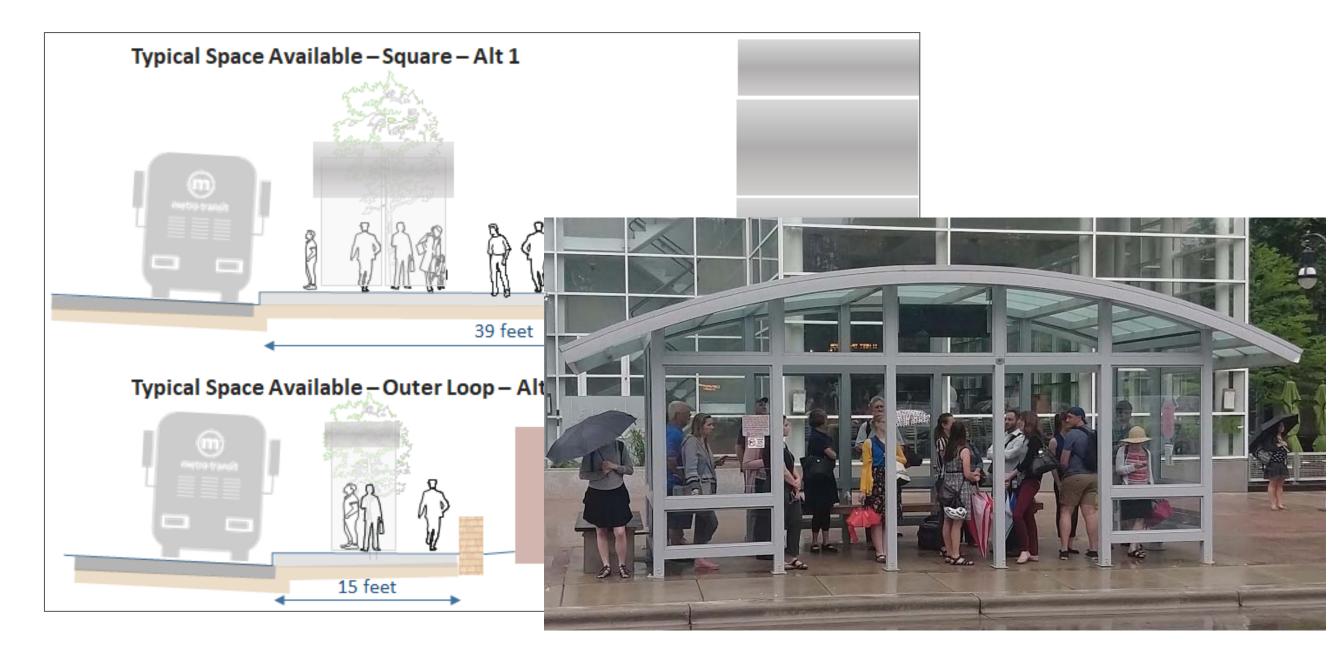
	1	1A	1B	3A
Percent Bus Lanes	70	76	76	59
Miles of Bus Lanes	1.3	1.6	1.6	1.6

Between Broom Street and Blair Street

Station Pairs and Transfers



Station Areas



Parking

	1	1A, 1B	3 A
Total Parking Spaces Removed	4	85	68-104 *
Annual Revenue Lost **	\$8 K	\$170 K	\$136-208 K

^{*} Depending on outcome of Wilson Street Study

^{**} All spaces are metered

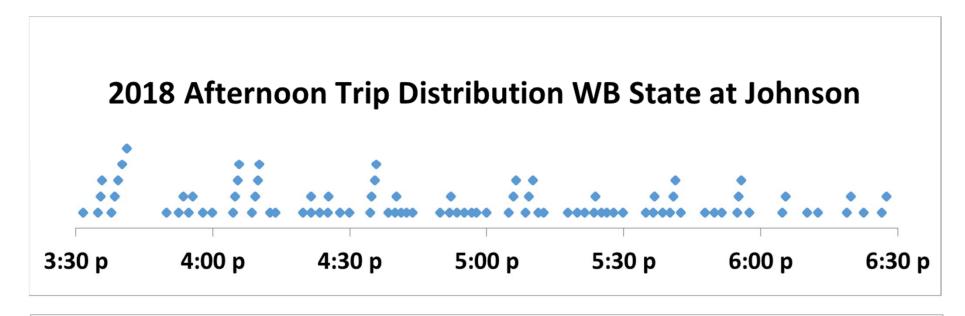


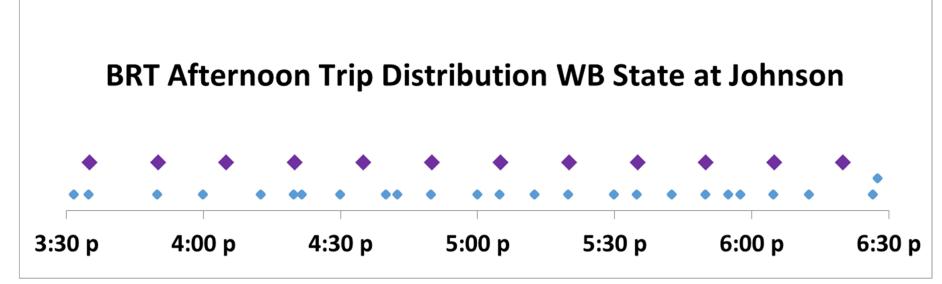
Pedestrians

- No significant changes to street infrastructure
- State Street All alternatives reduce the daily total and greatly reduce the PM peak volumes
- Capitol Square –
 Alternative 1 replaces
 some local buses with electric BRT buses, reducing waiting and idling



State Street

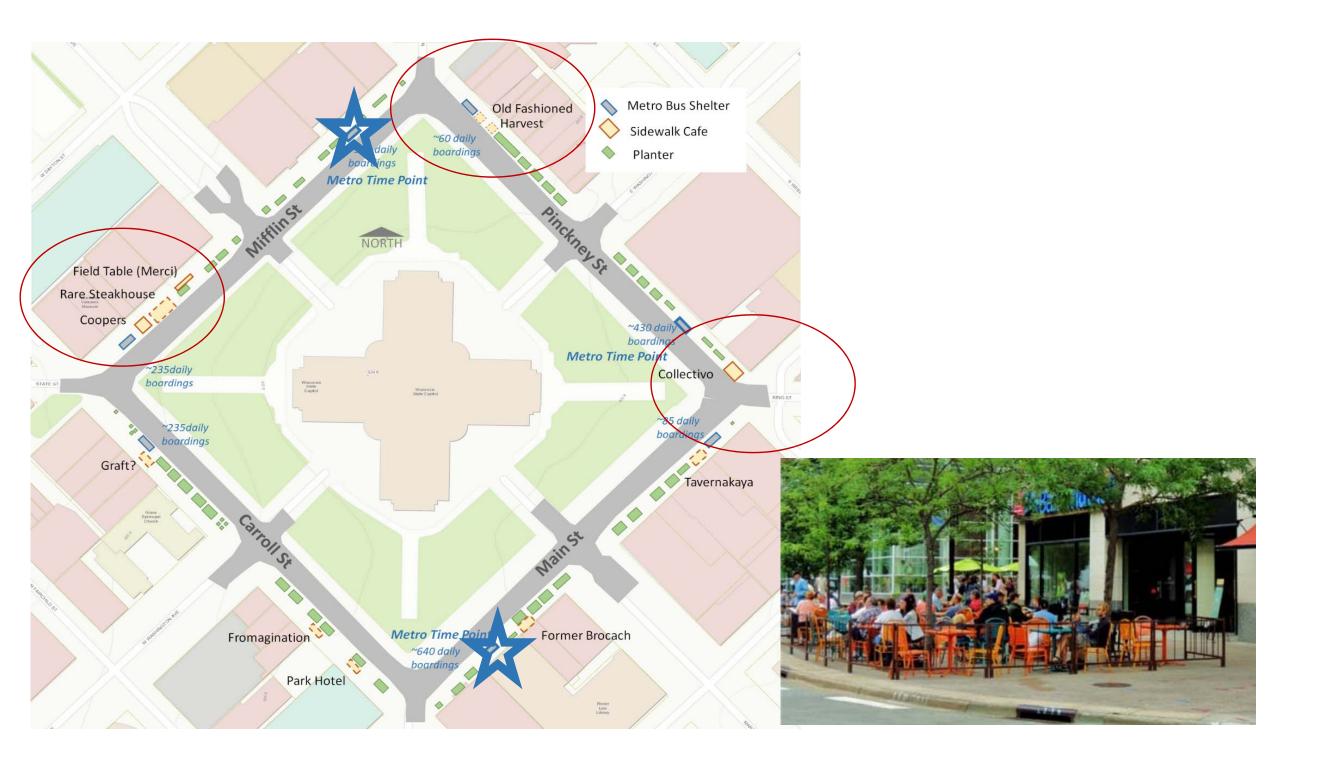




Business Concerns

- Concerns about buses:
 - Noise and emissions
 - Bus shelters take up space
 - More events could be held if buses didn't have to be detoured

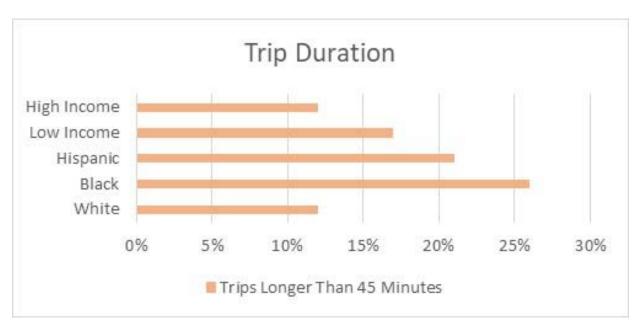
- Other concerns:
 - Panhandling
 - Disruptive and illegal behavior

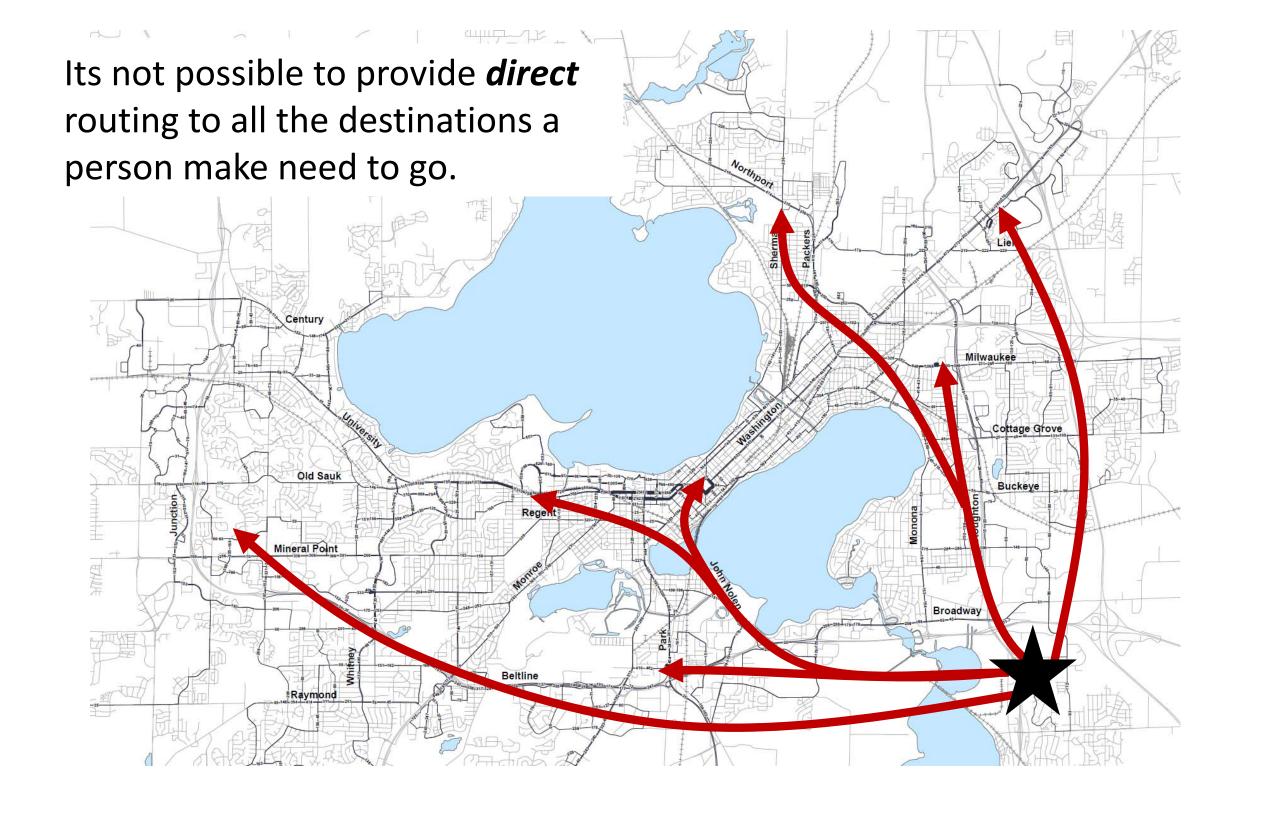


Equity

- 2015 On-board survey indicates low-income people and people of color transfer at higher rates than the general population
- One in four boardings on the square is a transfer.
- Transfers are how users access different parts of the system, and are particularly important for passengers traveling through. (ex Owl Creek)



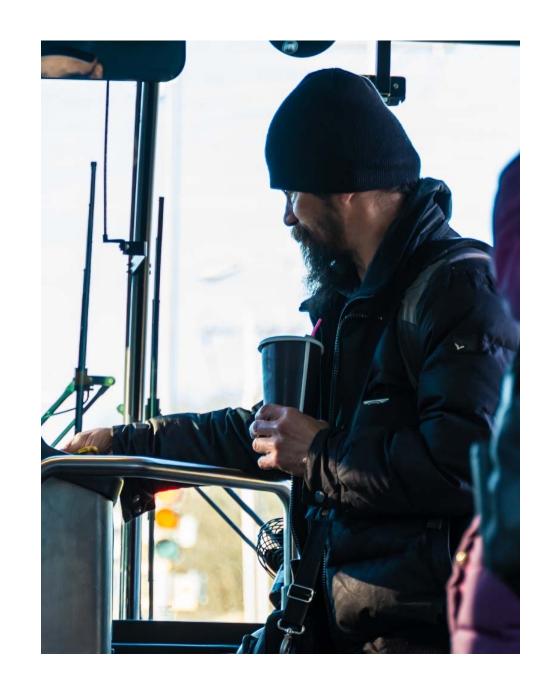




Equity

City staff interviewed bus riders on the Capitol Square during the day:

- 55% indicated that walking one block to transfer would be a problem
 - Those with mobility problems expressed greatest concern
- 78% indicated that eliminating stops on the square would be a problem
- 25% indicated that detours were a problem for them



Staff Recommendation: Alternative 1

- Most direct access to the city center
- Easiest to use EB and WB stations are within a block or two
- Generous space for stations
- Does not reduce parking revenue
- Reduces the number of buses on State Street during PM peak
- Allows most convenient transfers to and from local buses (Mobility considerations)

Staff Recommendation: Alternative 1

- Can minimize impacts (improve) urban environment
 - Some local bus routes will be removed from the Capitol Square
 - Diesel buses will be replaced by electric buses
 - BRT infrastructure can be positioned to maintain sidewalk and event space
 - Some bus stops on the Capitol Square may be closed or relocated
- BRT will be detoured for special events, but improved with:
 - Real-time signs with more up-to-date information
 - Benches and shelters on the Capitol Loop
- Metro Transit Network Plan 2020

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