



Department of Transportation

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Supplemental Analysis Maps for Transit Dependent Residents

3/9/2022

Madison's Planning Division worked with Metro Transit and data from the Transit Network Redesign's consultant to provide a supplemental analysis that focused on residents dependent upon transit.

- The following map series builds on the base maps in [Appendix A](#), to show how the proposed Metro Transit Network Redesign Plan would impact the proximity to transit, frequency of service, and access to job destinations for residents across the City of Madison, when compared to the current Metro Transit system.
- When assessing the impacts of transit changes, it is important to be aware of who is impacted the most, and to try to prioritize maintenance or improvements to the level of service for transit-reliant households.
- As requested by policy-makers and City staff, this new map series incorporates two important new data layers – “Income-Restricted Housing”, and “Other Facilities Correlated with Transit Reliance”- which staff and policy-makers can focus on to better understand how system changes would impact particular sites where individuals and households might be more reliant on transit.
- Further analysis of the system to inform potential improvements for transit-reliant households is underway. Meanwhile, these maps will allow individuals to zoom in and look at any area of the City to see how transit service to and from certain sites would be impacted.
- The first set of three maps show the impacts of the Metro Redesign on proximity (walking distance) to transit, frequency of service, and job access for residents living in buildings known to have “Income-Restricted Housing”, or Affordable Housing as required due to certain subsidies. These sites are shown as circles with the number of housing units labeled (larger circles indicate a greater number of housing units).
- The second set of three maps shows the location of several “Other Facilities Correlating with Transit Reliance”, with the same set of background data. On these maps, the known locations of emergency shelters, senior living facilities, state-licensed group living facilities, and several others are color-coded throughout the City so that the anticipated impacts on proximity to transit, frequency of service, and job access can again be examined.
- Importantly, when trying to determine whether the Metro Transit Network Redesign would have positive or negative service impacts on a particular site, one should note whether the site is in the midst of a “green” (positive change anticipated) or “pink” (negative change anticipated) area. If the particular site is in an area where the base maps show “clear” or “gray”, the level of service in the proposed system would remain about the same as it is today.

Change in Walk Distance to Transit

Compared to existing service, the nearest bus stop with all-day service would be:

- More than 3/8 mile closer
- 1/4 to 3/8 mile closer
- 1/8 to 1/4 mile closer
- About the same distance
- 1/8 to 1/4 mile farther
- 1/4 to 3/8 mile farther
- More than 3/8 mile farther

1 dot = 5 residents

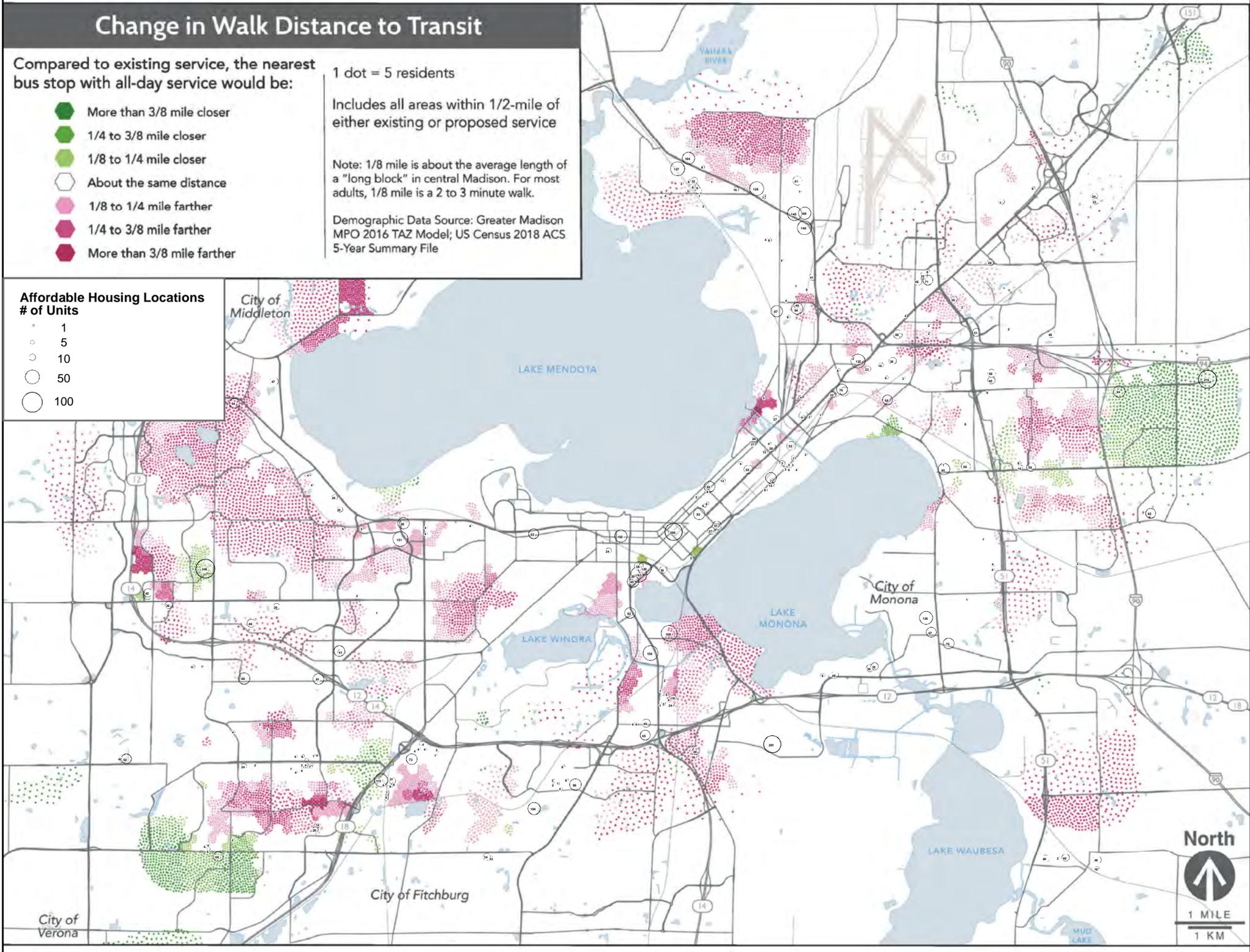
Includes all areas within 1/2-mile of either existing or proposed service

Note: 1/8 mile is about the average length of a "long block" in central Madison. For most adults, 1/8 mile is a 2 to 3 minute walk.

Demographic Data Source: Greater Madison MPO 2016 TAZ Model; US Census 2018 ACS 5-Year Summary File

Affordable Housing Locations

- # of Units
- 1
 - 5
 - 10
 - 50
 - 100



North



1 MILE

1 KM

Change in Frequency at the Nearest Stop

Compared to the existing service, midday service frequency at the nearest bus stop would be:

- Improved with the Proposed Draft Plan*
- Not Changed
- Service no longer within 1/2 mile

1 dot = 5 residents

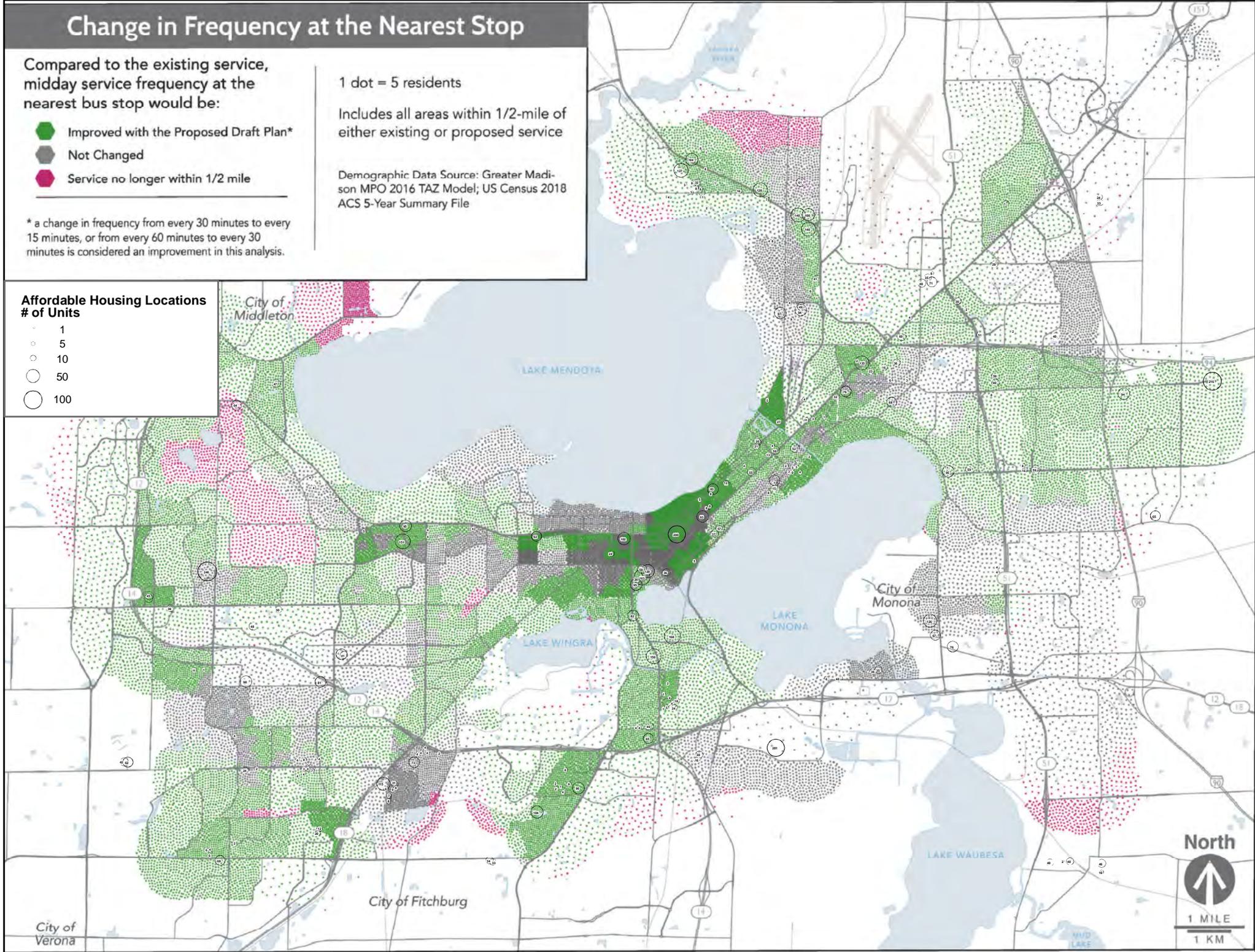
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Demographic Data Source: Greater Madison MPO 2016 TAZ Model; US Census 2018 ACS 5-Year Summary File

* a change in frequency from every 30 minutes to every 15 minutes, or from every 60 minutes to every 30 minutes is considered an improvement in this analysis.

Affordable Housing Locations # of Units

- 1
- 5
- 10
- 50
- 100



Proposed Draft Network - Job Access Change

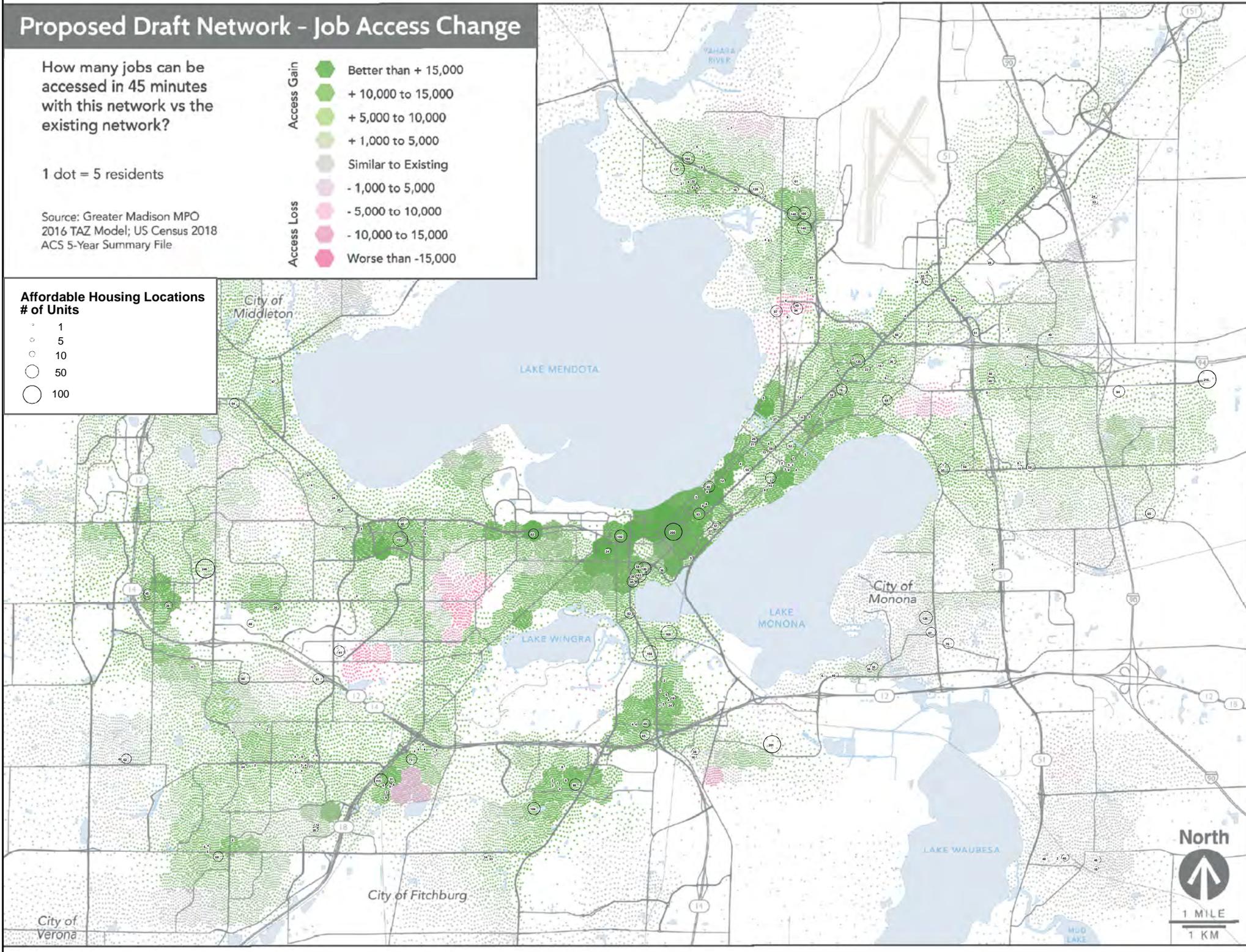
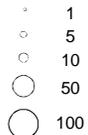
How many jobs can be accessed in 45 minutes with this network vs the existing network?

1 dot = 5 residents

Source: Greater Madison MPO
2016 TAZ Model; US Census 2018
ACS 5-Year Summary File



Affordable Housing Locations # of Units



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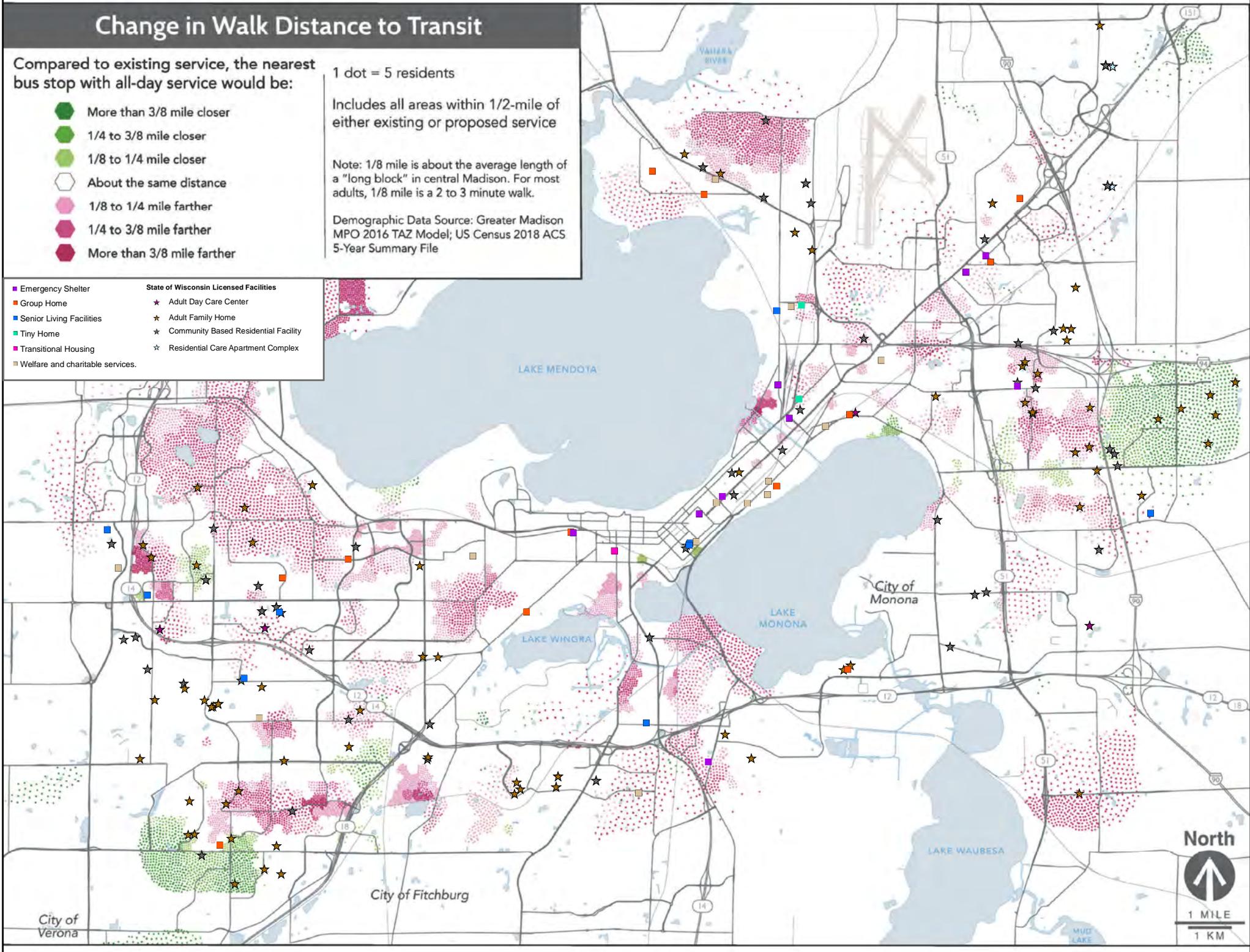
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- | | |
|--|---|
| <ul style="list-style-type: none"> ■ Emergency Shelter ■ Group Home ■ Senior Living Facilities ■ Tiny Home ■ Transitional Housing ■ Welfare and charitable services. | <p>State of Wisconsin Licensed Facilities</p> <ul style="list-style-type: none"> ★ Adult Day Care Center ★ Adult Family Home ★ Community Based Residential Facility ★ Residential Care Apartment Complex |
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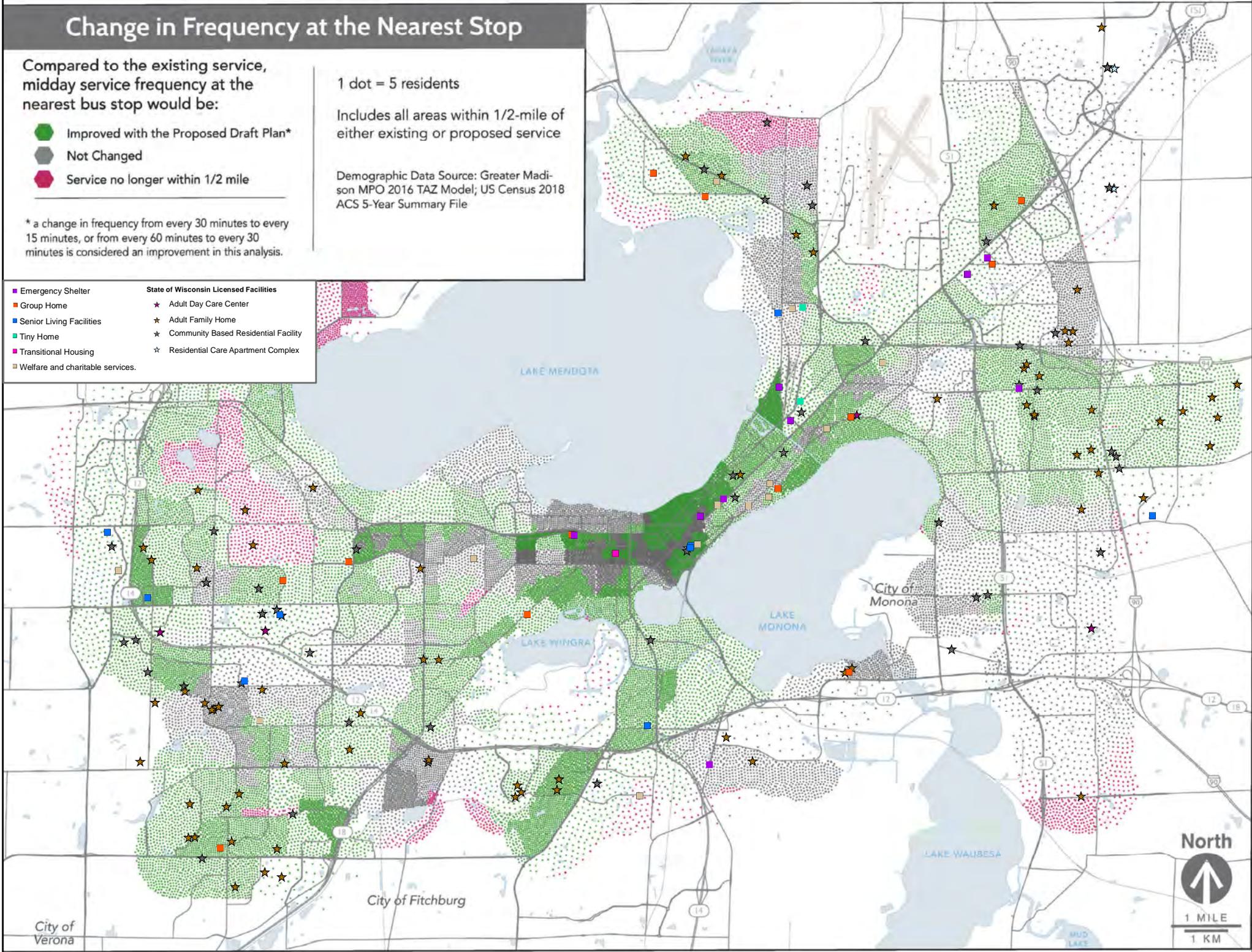
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