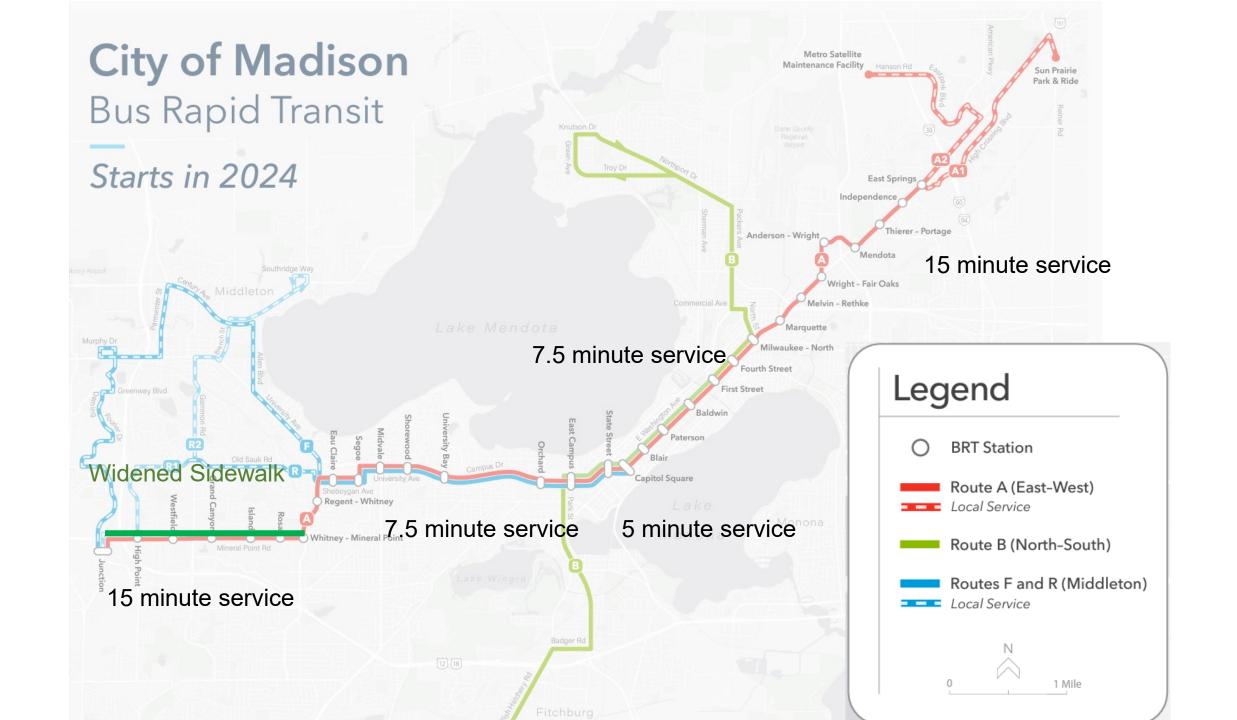
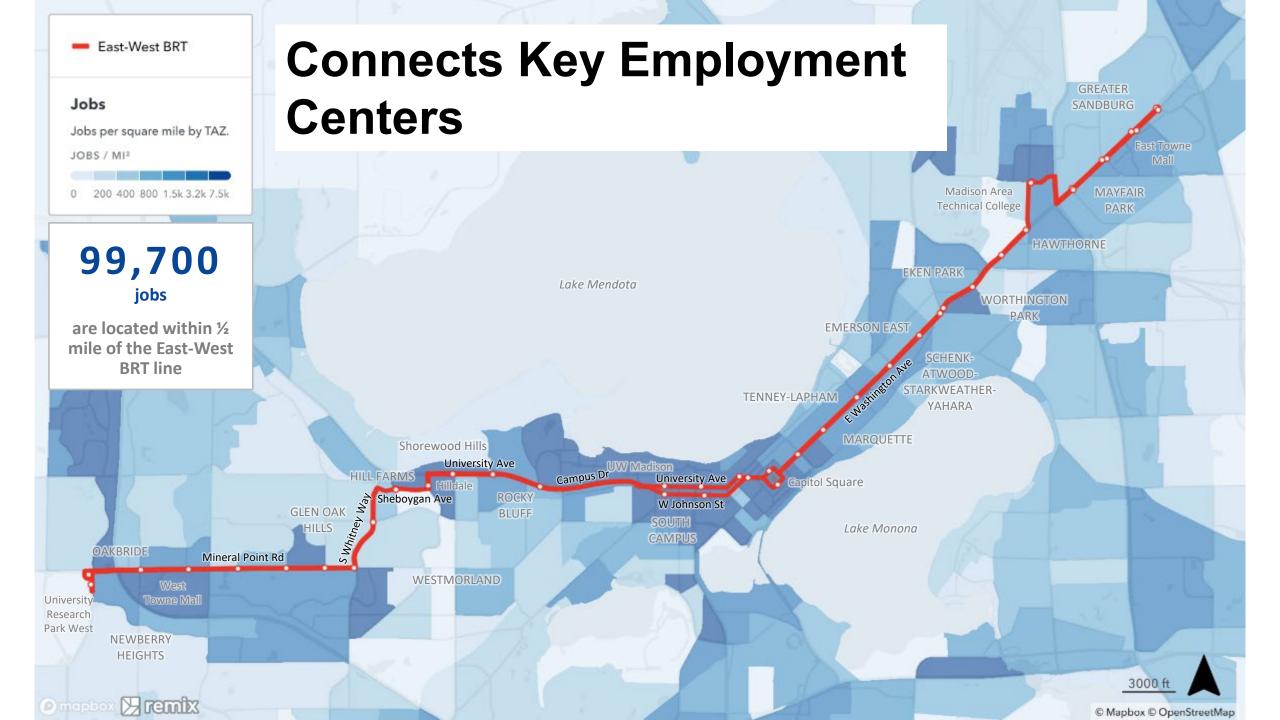


East-West Bus Rapid Transit

Mineral Pt Widened Sidewalk

November, 2023







27,400

people of color

live within ½ mile of the **East-West BRT line**

Park West

NEWBERRY



Better Access for Communities of Color GREATER COMMUNICATION CONTROL CONTROL COLOR C

> Madison Area MAYFAIR Technical College HAWTHORNE EKEN PARK WORTHINGTON **EMERSON EAST** TENNEY-LAPHAM YAHARA MARQUETTE Capitol Square

Campus Dr Wadison

University Ave

ROCKY

BLUFF

Lake Mendota

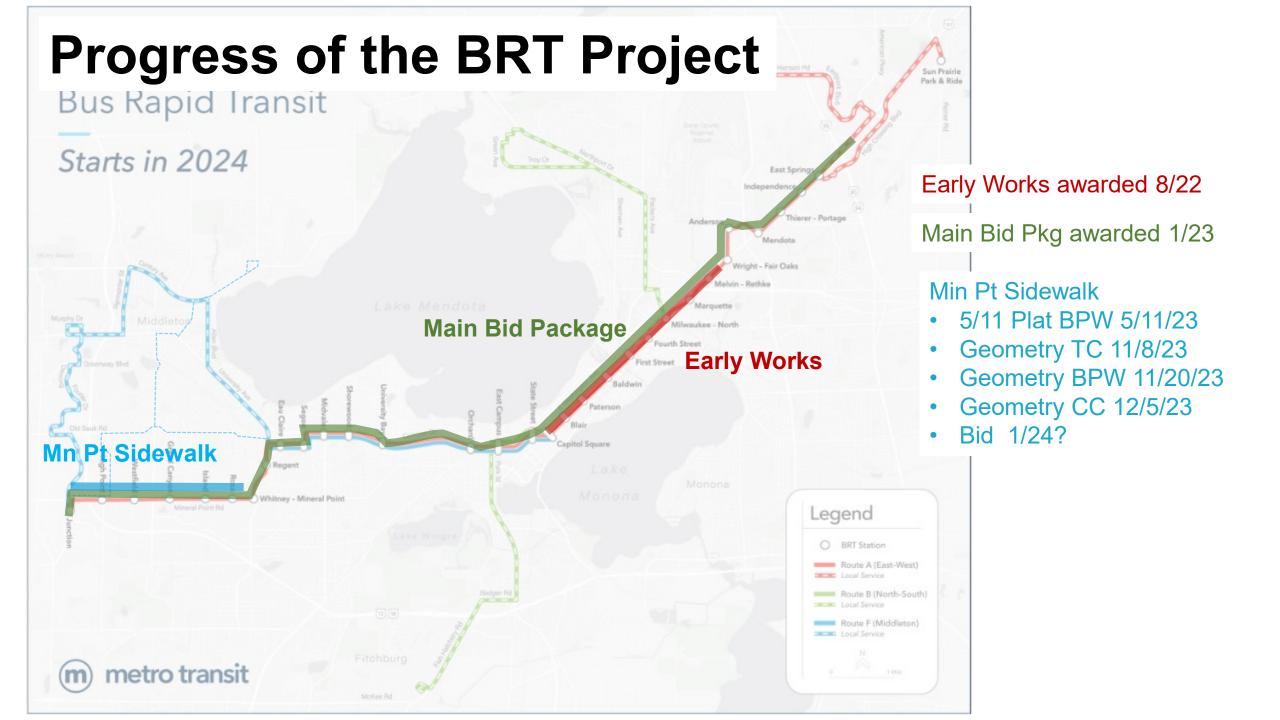
University Ave

W Johnson St

CAMPL

Lake Monona

PARK





Safety of Cyclists is Poor

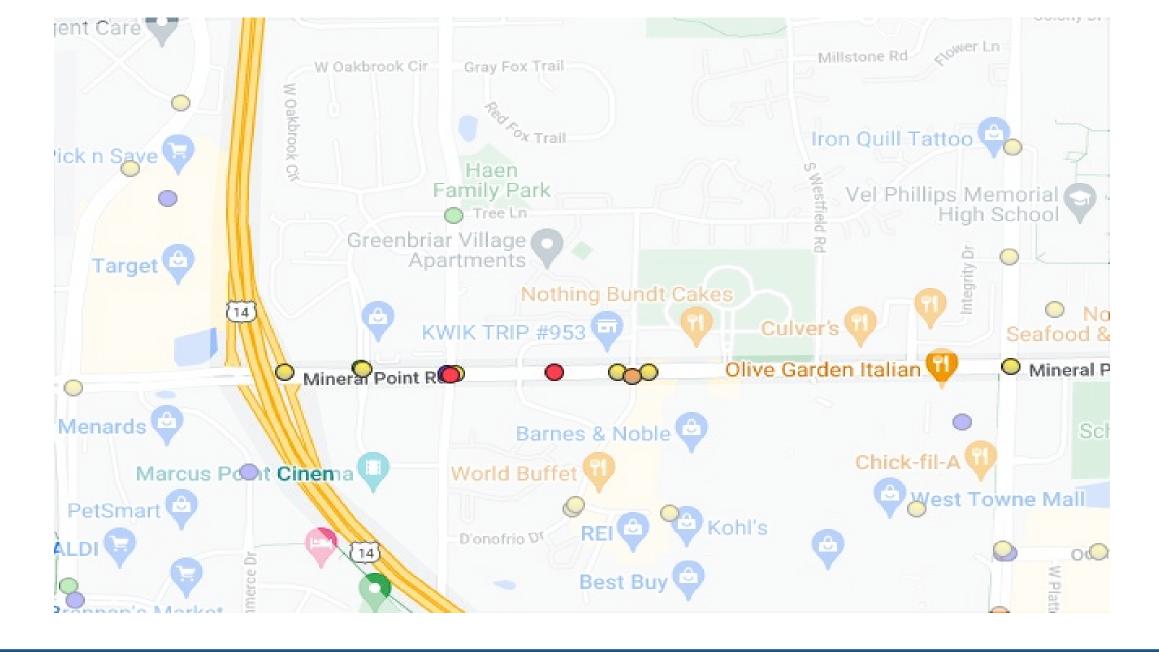
- Not all ages and abilities
- Fatality in 2022
- Bus/bike crash in October

Vigil held for bicyclist who died in crash on Madison's west side



Madison Bikes held a vigil Thursday morning for the bicyclist killed in a crash earlier this week. (NBC15) By Juliana Tornabene

Published: Jun. 9, 2022 at 3:40 PM CDT



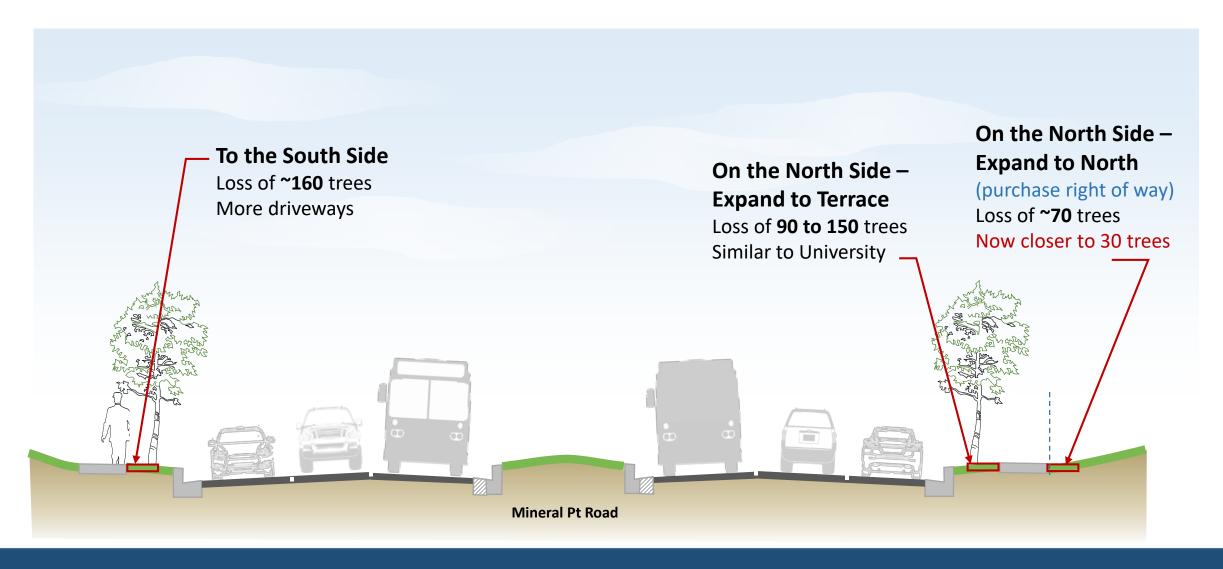
Mineral Pt Rd is Designated for All Ages and Abilities







Placement of Expanded Sidewalk – 3 Options

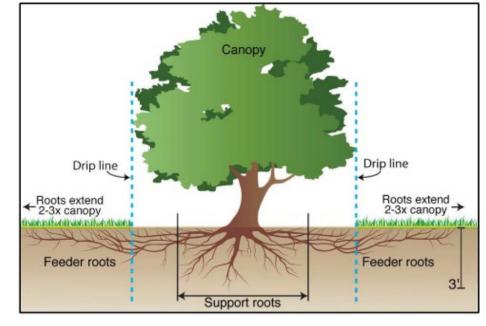


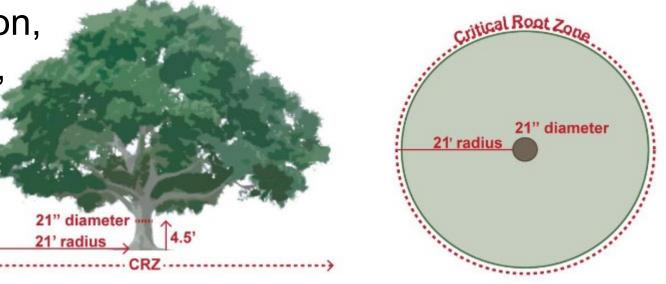
Critical Root Zone

- Roots spread wide not deep
- CRZ generally 1-2' radius per 1" diameter trunk

 Protect against soil compaction, grade change, physical injury, etc.

Trying to be thoughtful about infrastructure in relation to existing trees

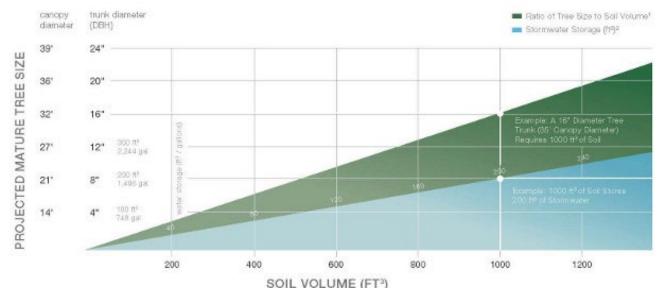




https://isatexas.com/wp-content/uploads/2015/11/BMPs-Tree-Protection.pdf

Soil Volume

 Larger volume needed for bigger trees



https://www.deeproot.com/blog/blog-entries/our-recommended-soil-volume-for-urban-trees-2/

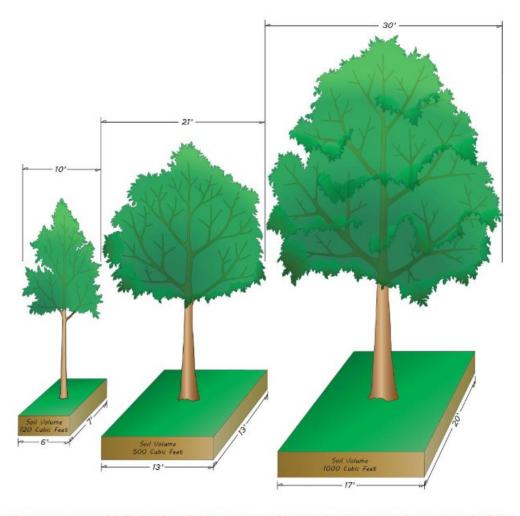


Figure 3. Tree growth is limited by soil volume. To grow big trees, large amounts of uncompacted soil are needed. For a mature tree with a canopy spread of approximately 30 feet, 1,000 cubic feet of soil is needed. Illustration from Casey Trees, 2008.

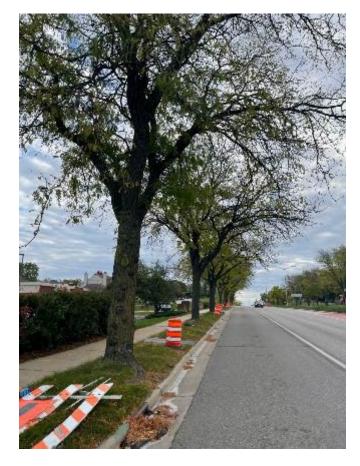
https://www.epa.gov/sites/default/files/2015-11/documents/stormwater2streettrees.pdf

Tree Considerations

- Vigor and size
- Species
- Growing conditions
- Existing canopy benefits

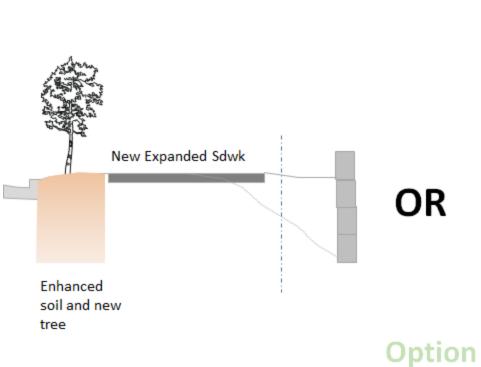


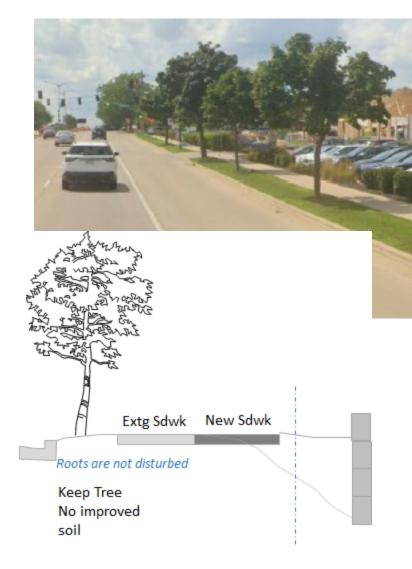
Low vigor, small size



High vigor, large size

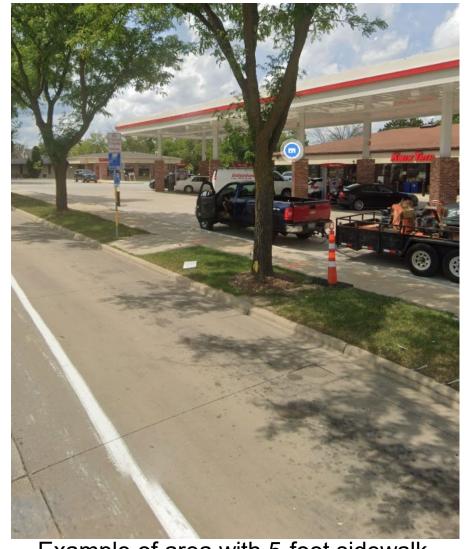
Consequently 8 trees have options





For other Portions of the Corridor Mitigation measures include:

- Selectively positioning widened sidewalk on north right of way
- Removing a Mineral Pt Road lane for about 1000 feet west of Whitney Way
- Providing selective tree semi-circle narrowing
- Retaining existing 5-foot sidewalk without widening. (800 feet or 6%)

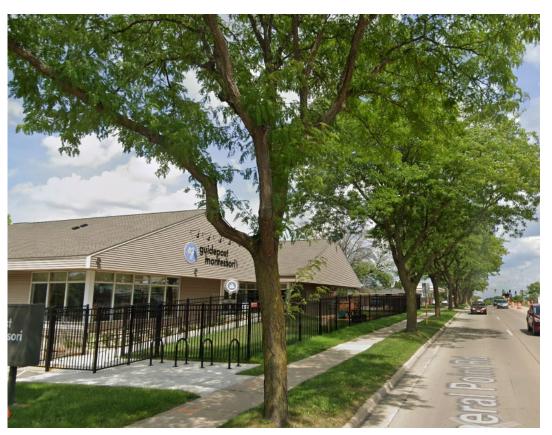


Example of area with 5-foot sidewalk

Roughly 85% of Trees can be preserved through design and mitigation efforts

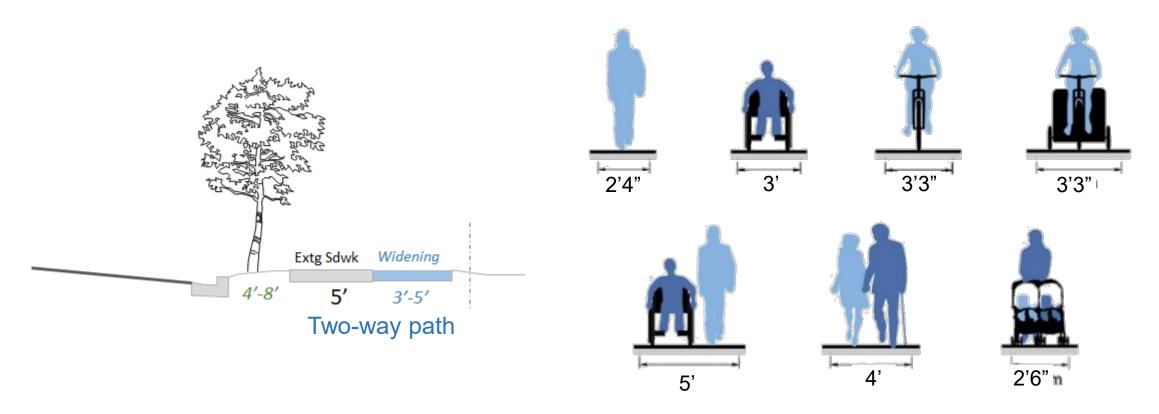


Example of trees preserved



Example of trees preserved

Wider sidewalk desirable to accommodate all users



Diverse range of users need to be able to pass each other

About 16 trees are preserved through maintaining 5' sidewalk width for ~800 feet.

TC Rec

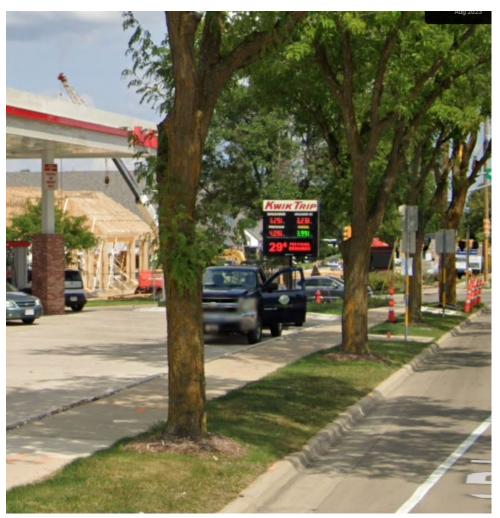
No

No

No

No

	Landmark	Length of 5' Sidewalk	Trees Saved
Sta 89+00	Kwik Trip	150	3
Sta 134+50	Clock Tower	100	2
Sta 136+20	Clock Tower	100	2
Sta 155+00	Nautilus Park	325	7
Sta 158+50	Isle of View Apts	125	2
Sta 93+00 (Options)	Strip Mall Recomm	400 nended by Forest	Replace 7? ry



Areas where some trees are unavoidably impacted include:

- At intersections to address site distance issues and provide pedestrian/bicycle staging area.
- Near culverts
- Areas with steep grades which require some earthwork



Roughly 191 existing trees in corridor

Factor	Staff Recommended	TC Recommended
Existing trees removed	20	29*
Trees with options (remove and replace with better soil)	8	8
Trees near Garner Park	8	8
Amount of 5-foot sidewalk	800' 6%	325' 2.5%
Trees preserved	81% to 85%	76% to 81%

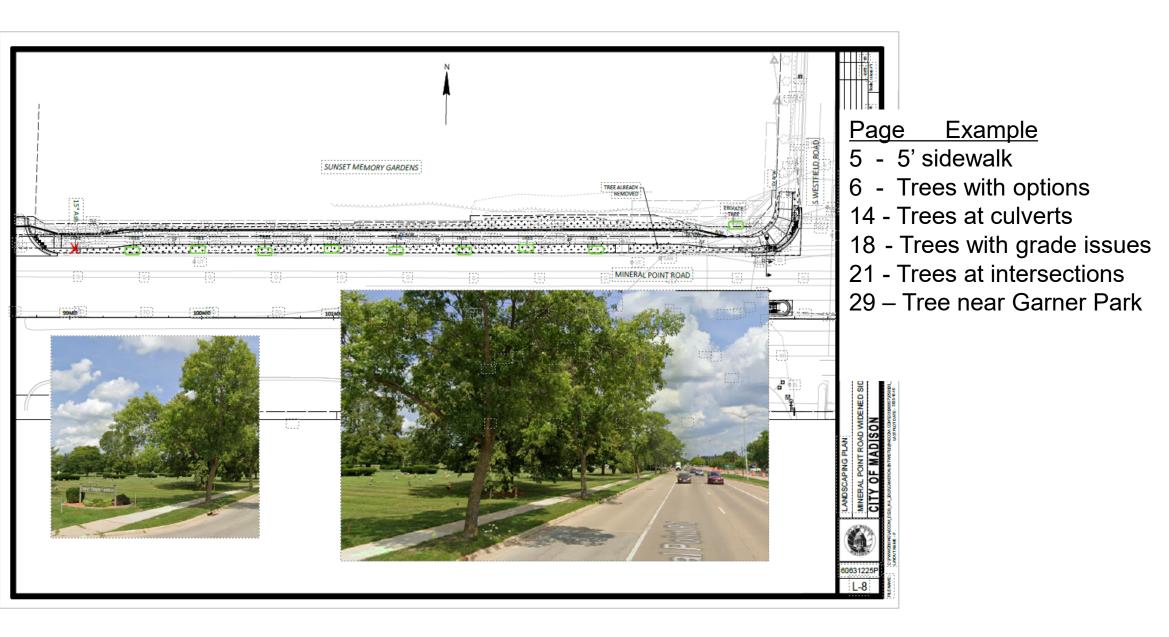
Trees removed will have new trees planted with complementing species and location

^{*}Note that where path is expanding into the terrace (9 TC recommended trees), the remaining terrace width may not be wide enough to support large canopy trees. We would either replant with a small canopy species or abandon the site.

Of trees removed in staff recommendation

- 11 At intersections
- 2 At Culverts
- 12 Due to grade
- 3 Other reasons (typically close property line/buildings)

Discussion of Trees in Corridor





East-West Bus Rapid Transit

Contacts

Tom Lynch tlynch@cityofmadison.com

lan Brown ibrown@cityofmadison.com