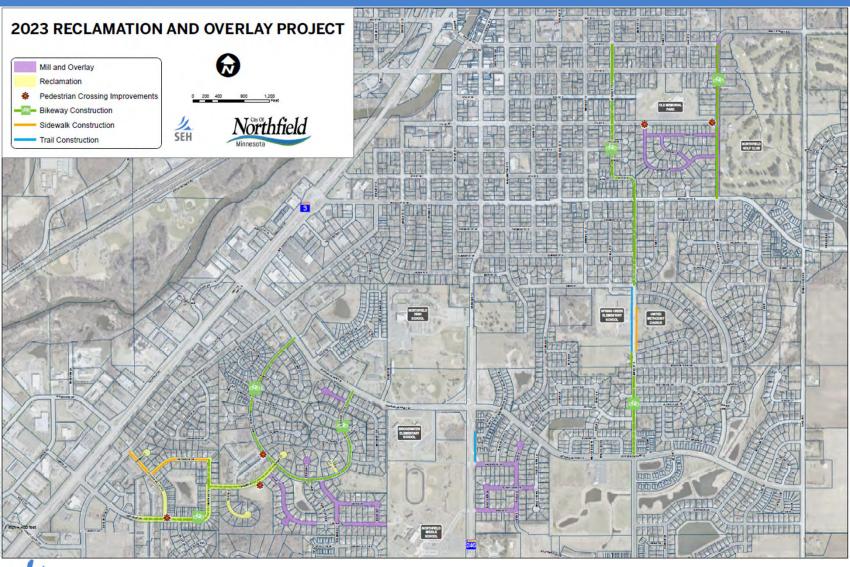
City of Northfield 2023 Reclamation and Overlay Project

December 6, 2022 | City Council Meeting





Project Location







Street Improvements

- Full depth pavement reclamation
- Asphalt mill and overlay
- Spot curb and gutter repairs (full curb removal on Adams St.)
- Spot sidewalk repairs
- ADA curb ramp upgrades
- New sidewalk/trail installations
- On-street bikeways
- Off-street bikeways







Pavement Reclamation







Pavement Milling



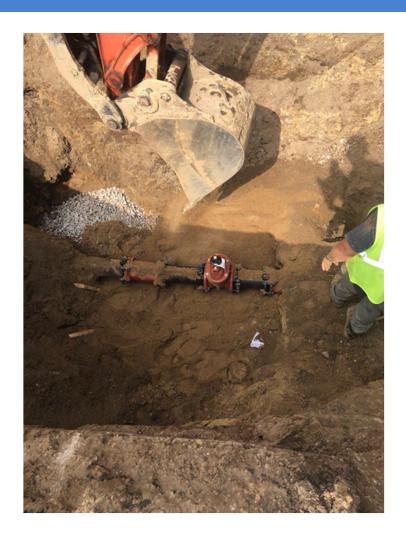
Overlay





Utility Improvements

- Catch basin / manhole repairs
- Gate valve repairs







Arborist Review



Any trees to be removed, whether due to arborist recommendation or conflict with proposed improvements, will be replaced at 2:1 ratio

Arborist has:

- Reviewed all right-of-way trees within project limits
- Assigned condition rating
- Provided recommendation of tree fate

City Ash Tree Policy:

- Greater than 13" diameter to be saved
- Less than 13" diameter to be removed



Schedule







Estimated Project Costs

	Streets	Sanitary Sewer	Water System	Storm Sewer	Estimated Total
Estimated Construction Cost	\$4,288,837	\$76,730	\$259,270	\$202,160	\$4,826,997
Contingency (10%)	\$428,884	\$7,673	\$25,927	\$20,216	\$482,700
Art (1%)	\$47,177	\$844	\$2,852	\$2,224	\$53,097
Total with Art	\$4,764,898	\$85,247	\$288,049	\$224,600	\$5,362,794
Administration, Engineering, Legal (11%)	\$524,139	\$9,377	\$31,685	\$24,706	\$589,907
Total Estimated Project Costs (Feasibility)	\$5,289,037	\$94,624	\$319,734	\$249,306	\$5,952,701





Project Funding

Estimated Revenue	Streets	Sanitary Sewer	Water System	Storm Sewer	Estimated Total
Franchise Fees	\$1,100,000				\$1,100,000
Bonds	\$4,189,037				\$4,189,037
Enterprise Funds (Utilities)		\$94,624	\$319,734	\$249,306	\$663,664
Total Estimated Revenue (Feasibility)	\$5,289,037	\$94,624	\$319,734	\$249,306	\$5,952,701





Trail / Sidewalk / On-Street Bikeways

Guiding Documents

- Complete Streets Policy (2012)
- Pedestrian, Bike, and Trail System Plan (2019)
- Pedestrian + Bikeway Analyzation (2022)

City of Northfield Pedestrian, Bike, and Trail System

Final Report | March 2019

Contents

Section 1: Existing Plan and Policy Review Memorandum

Section 2: Community Engagement Report

Section 3: Mill Towns State Trail: Planned Route Through Northfield

Section 4: Northfield High School & Arcadia Charter School: Walking and Bicycling Issues Maps

Section 5: Northfield High School & Arcadia Charter School: Walking and Bicycling Recommendation Maps

Section 6: Street Type Table Update

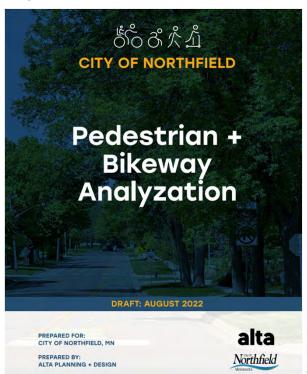
Section 7: Northfield Planned Sidewalk Network Map

Section 8: Northfield Planned Walking and Bicycling Network Map





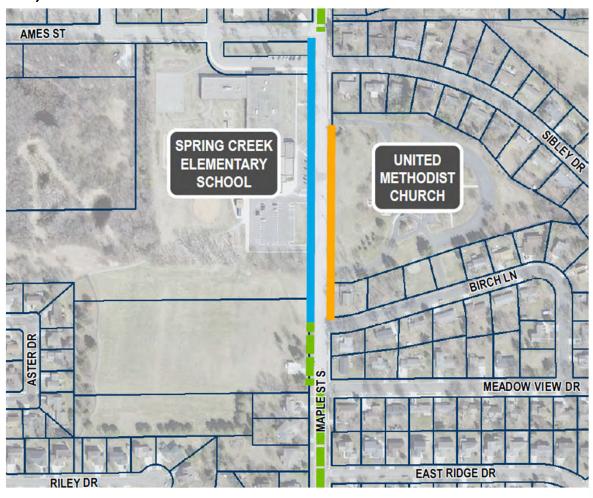






Sidewalk Improvements

 Maple Street from United Methodist Church to Birch Lane (east side)







Sidewalk Improvements

- Hidden Valley Road from Jefferson Rd to Peterson Dr (north/east side)
- Peterson Drive from Hidden Valley Rd to Truman Park trail

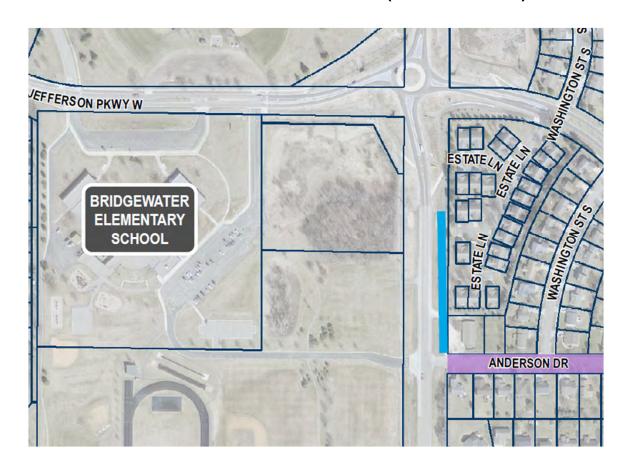






Trail Improvements

• TH 246 from Anderson Dr to north (east side)







Bikeway Improvements



Note: Percentages represent the level of comfort that people feel bicycling, according to peer-reviewed surveys as recently as 2016.

Source: FHWA Bikeway Selection Guide: https://safety.fhwa.dot.gov/ped_bike/tools_solve/docs/fhwasa18077.pdf
For more information, please visit FHWA's Bicycle and Pedestrian Program webpage:
https://www.fhwa.dot.gov/erwironment/bicycle_pedestrian/







Bikeway Improvements

- Maple Street/Nevada Street
- Prairie Street
- Heritage Drive
- Lincoln Street
- Adams Street
- Roosevelt Street







Bikeway Examples







Bike Boulevard

Protected Two-Way
Bikeway

Off-Street Two-Way
Bikeway / Shared
Use Path

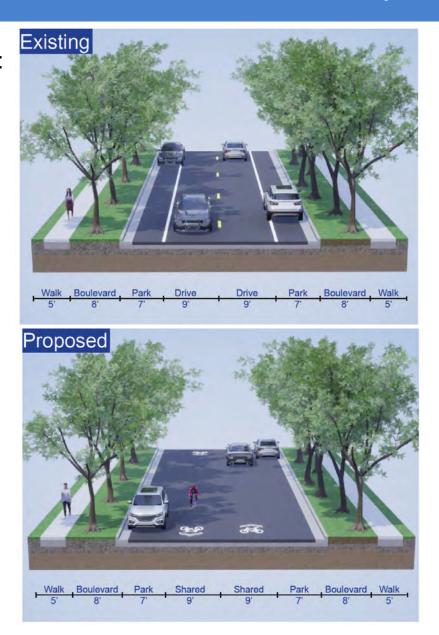




Maple Street/Nevada Street Bikeway

Fourth St to Woodley St: **Bike Boulevard**









Maple Street/Nevada Street Bikeway

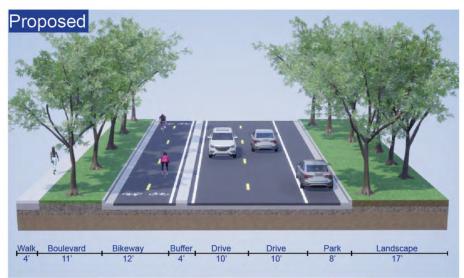
Woodley St to Ames St & Meadowview Dr to Jefferson Pkwy:

Protected Two-Way Bikeway









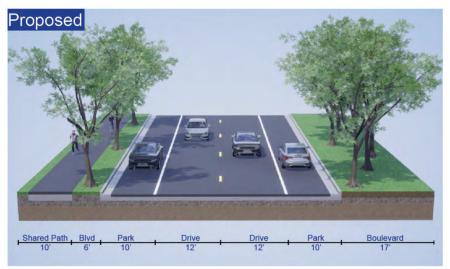


Maple Street/Nevada Street Bikeway

Ames St to Meadowview Dr: Off-Street Shared Use Path











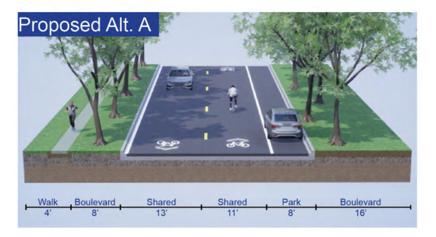
Prairie Street Bikeway – Alternative A

Fourth St to Woodley St: **Bike Boulevard**





Bike Boulevard







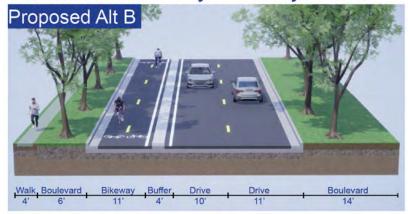
Prairie Street Bikeway – Alternative B

Fourth St to Woodley St: **Protected Two-Way Bikeway**





Protected Two-Way Bikeway



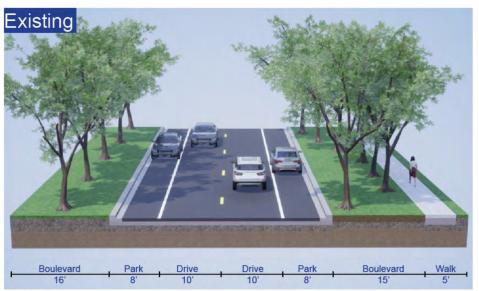




Heritage Drive/Lincoln Street/Adams Street Bikeway

Off-Street Two-Way Bikeway







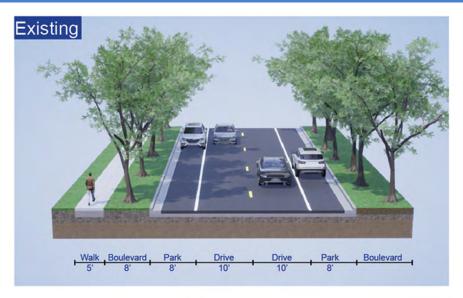




Lincoln Street Bikeway

Adams to Peterson: Protected Two-Way Bikeway











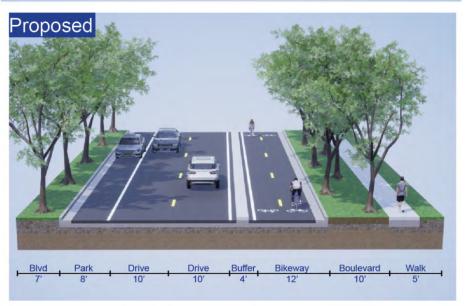
Roosevelt Drive Bikeway

Jefferson Pkwy to Jefferson Pkwy:

Protected Two-Way Bikeway











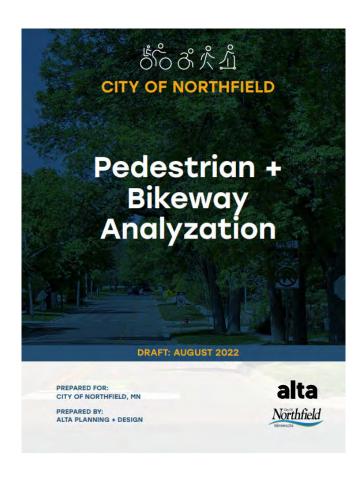
Pedestrian Crossing Safety Enhancements

Pedestrian and Bikeway Analyzation Study:

- Completed pedestrian origindestination analysis
- Identified potential pedestrian crossing improvement locations Citywide

Goals:

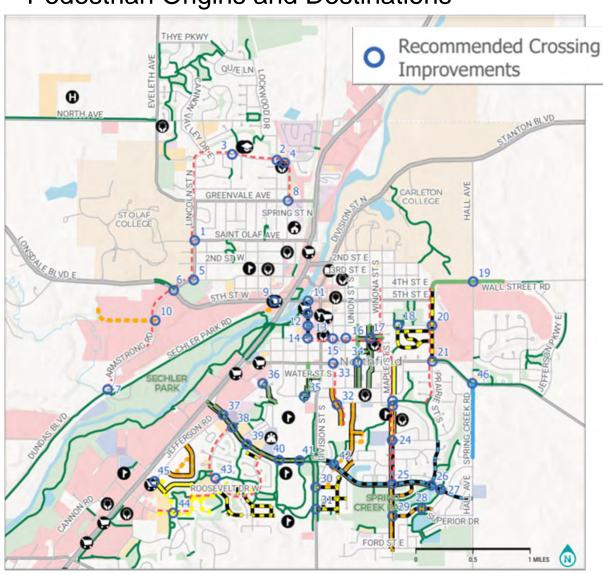
- Identify opportunities to reduce pedestrian barriers
- Improve pedestrian comfort
- Improve safety at intersections and trail crossings







Pedestrian Origins and Destinations



COMMUNITY SERVICES Places of Worship Hospital Library Preschool School Community Action Center and Senior Center Northfield Community Education Center SNAP Stores Trail

















Roosevelt Drive near Woodridge Apartments: Enhanced Signing and Striping

- Nominally favored at Open House
- Currently no signing/striping in place
- Planned on-street bikeway precludes other options









Adams Street at Roosevelt Park: Bumpout (north side) and Enhanced Signing and Striping

- Bumpout provides enhanced traffic calming and shortens crossing distance
- Enhanced signing/striping improves crossing visibility









Heritage Drive at Hidden Valley Rd (Heritage Park): Raised Crosswalk, Bumpout (north side), and Enhanced Signing and Striping

- Raised crosswalk nominally favored during Open House
- Provides traffic calming
- Raised crosswalks shown to reduce pedestrian crashes by 45%
- Provides opportunity to implement new treatment to understand its effectiveness and future applications









Heritage Drive at Valley Dr (Hidden Valley Park): Bumpout (north side) and Enhanced Signing and Striping

- Bumpout provides enhanced traffic calming and shortens crossing distance
- Enhanced signing/striping improves crossing visibility









7th Street at Fareway Drive (Old Memorial Park): Bumpout (SE Quadrant) and Enhanced Signing and Striping

- Bumpout provides enhanced traffic calming and shortens crossing distance
- Enhanced signing/striping improves crossing visibility
- Verbal feedback at Open House indicated no strong preference for either option









7th Street at Prairie Street (West Approach): Enhanced Signing and Striping

- Nominally favored at Open House
- Currently no signing in place
- Enhanced signing/striping improves crossing visibility









Thank You!

For more information on the project, visit:

https://www.northfieldmn.gov/152 0/2023-Reclamation-and-Overlay-Project





