

2020 Mill and Overlay Project

City Council Meeting
Ordering Improvement
January 7, 2020



2020 Project Scope

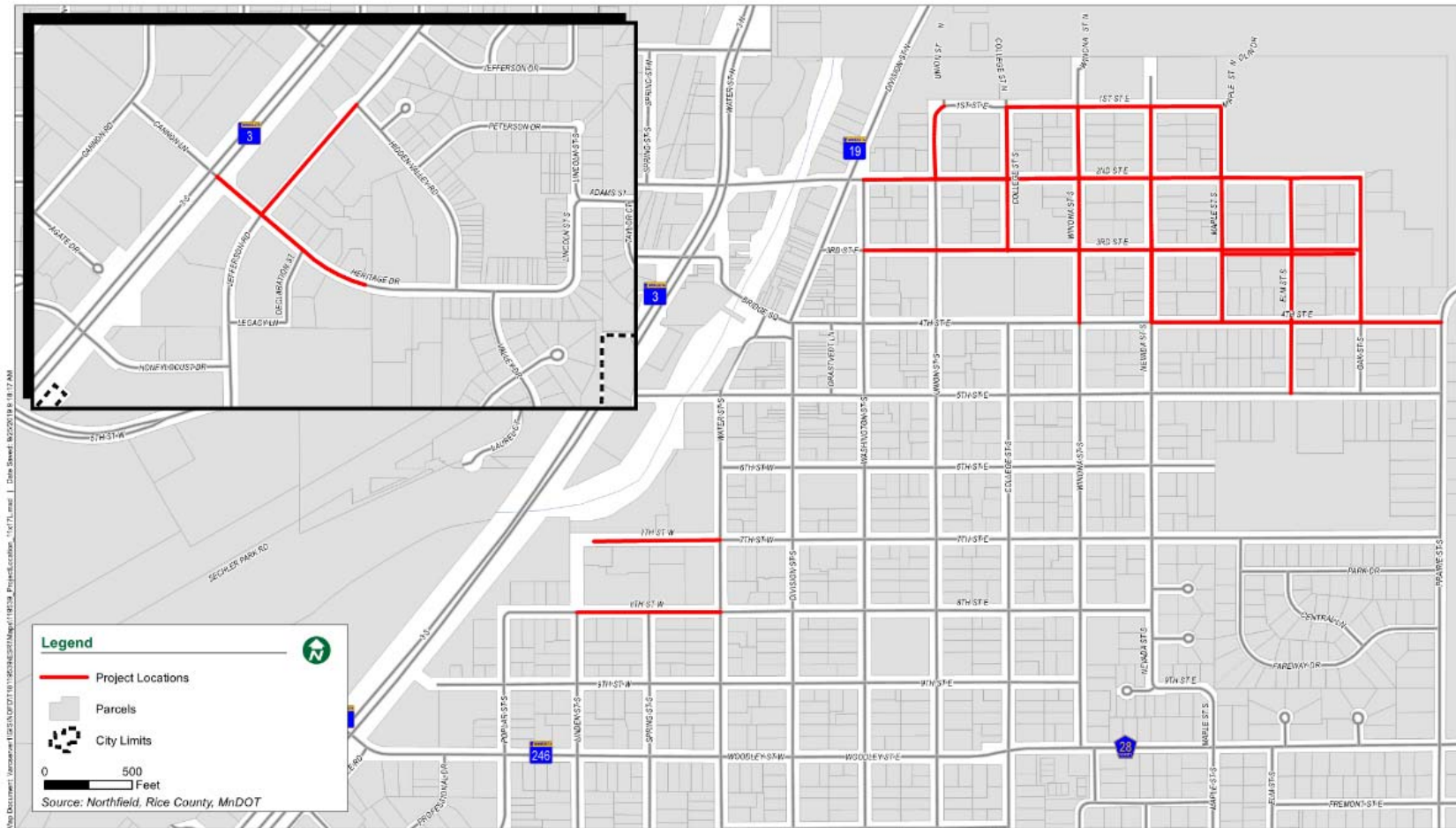
- Mill & Overlay – pavement life extended by 15 years
 - Concrete Curb and Gutter Spot Repairs
 - Sidewalk Spot Repairs
 - ADA Upgrades to Existing Pedestrian Ramps
 - Intersection Bump-out Analysis
 - Bikeways Construction
 - Storm Sewer, Sanitary Sewer, & Watermain Adjustments
 - Storm Sewer Analysis & Relocations As Necessary
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Project Location




2020 Mill & Overlay Project
City of Northfield, MN

Figure 1: Project Location
September 2019



Drainage Analysis

- Paving will correct potholes and flat Cross-Slopes roads that hold water by re-establishing the crown in the road
 - The Cross Slope will help drain water to the curb line
 - Spot replacement of curb & gutter will correct settlements and cracks that hold water
 - This corrected grade will help drain water to the catch basins
 - Catch Basins will be added near existing CB's to improve slow drainage, where possible
 - Existing flatter streets will still have slow drainage during freeze/thaw cycles and when leaves build up in the gutters
 - Final design analysis will be shared with Council on January 14, 2020 and approval on January 21, 2020.
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Pedestrian Bumpout Analysis

- Bump-outs Increase Pedestrian Safety and Traffic Calming
- Intersection Crosswalks Pedestrian Flow Observation
- Limitations - Bikeway Conflicts, Delivery Routes, etc.
- Eliminated: low-density crossings, streets with limitations, and intersections not completely within project area
- Not financially feasible to include at all appropriate locations
- Prioritized locations near specific destinations based on Origin-Destination trip generation: institutions, schools, parks, etc. and high children %
 - Input from residents and City considered
- **Staff will share truck turning movement illustration at January 14 Council Work session to finalize bumpout locations.**



Pedestrian Bumpout Analysis



2020 Mill and Overlay Project

Bumpout Selection Map

www.ci.northfield.mn.us/1313/2020-Mill-and-Overlay-Project

Intersections were eliminated because...



Low density of pedestrian crossings observed



The street did not have parking lanes OR the street has proposed bikeways or other design restrictions



The intersection was on the edge of project limits

Selected intersections

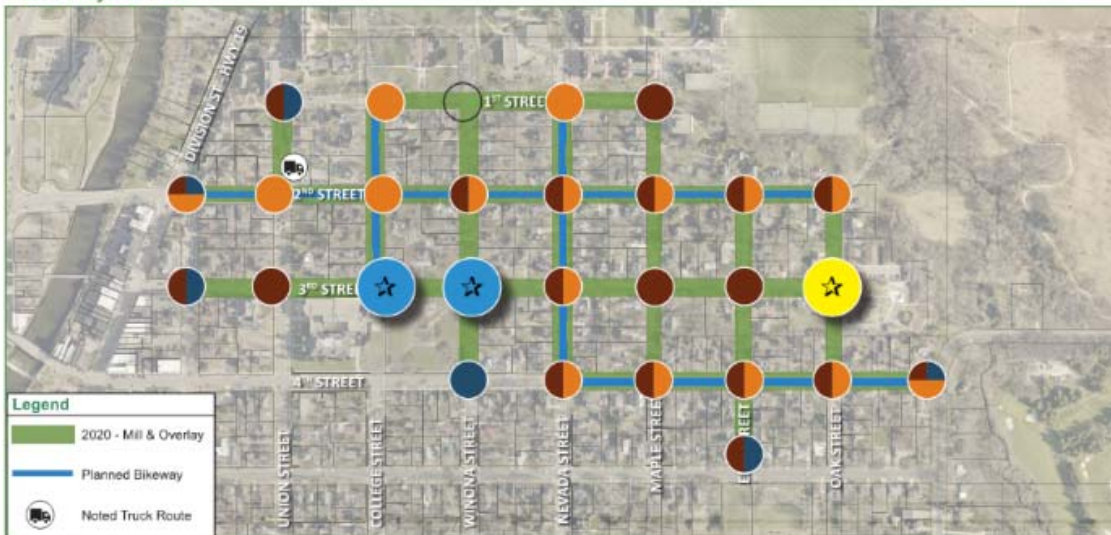


Intersections prioritized based on nearby attractions and assumed userbase

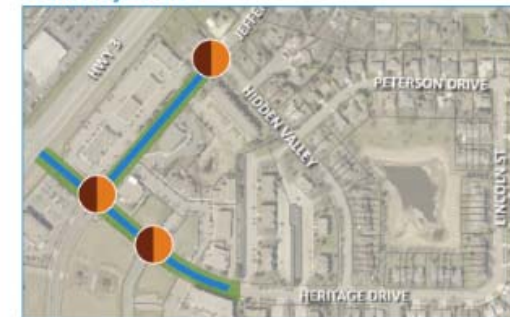


Intersections prioritized based on feedback from residents and city council

North Project Area



South Project Area



8th Street Area



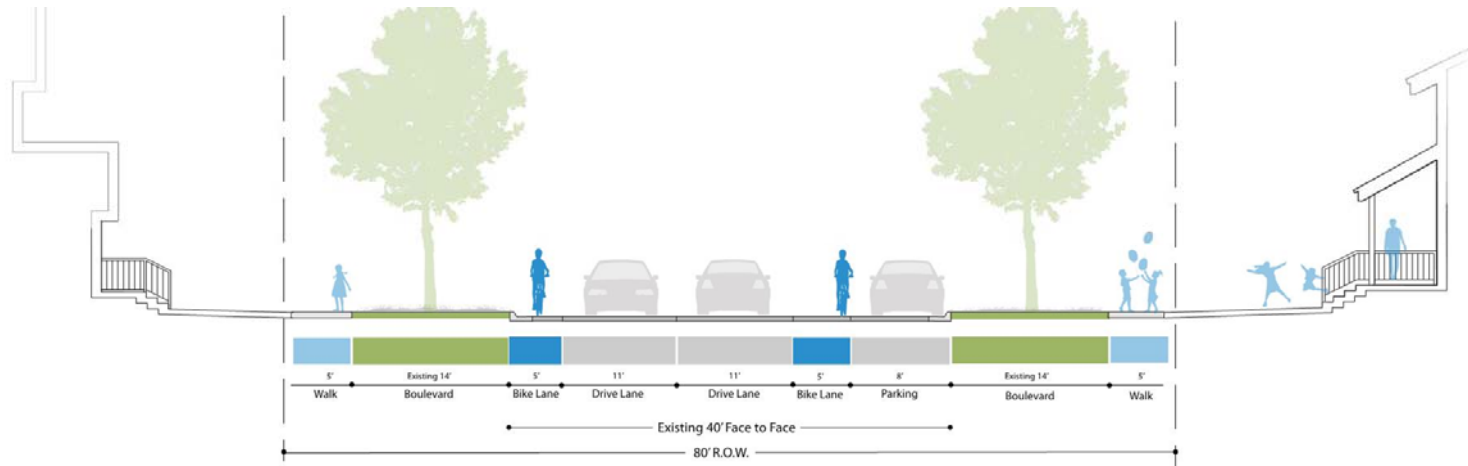
Bikeway Improvements

- Bike facilities will be implemented with the Mill & Overlay project
 - Locations identified per City of Northfield Pedestrian, Bike, and Trail System Report
 - Design follows City of Northfield Complete Streets Policy
- Bikeway additions are only portions of the overall planned bikeway system
- Considerations on how each option will fit and/or transition to existing and future improvements



Fourth Street Bikeway Improvements

Nevada Street – Prairie Street

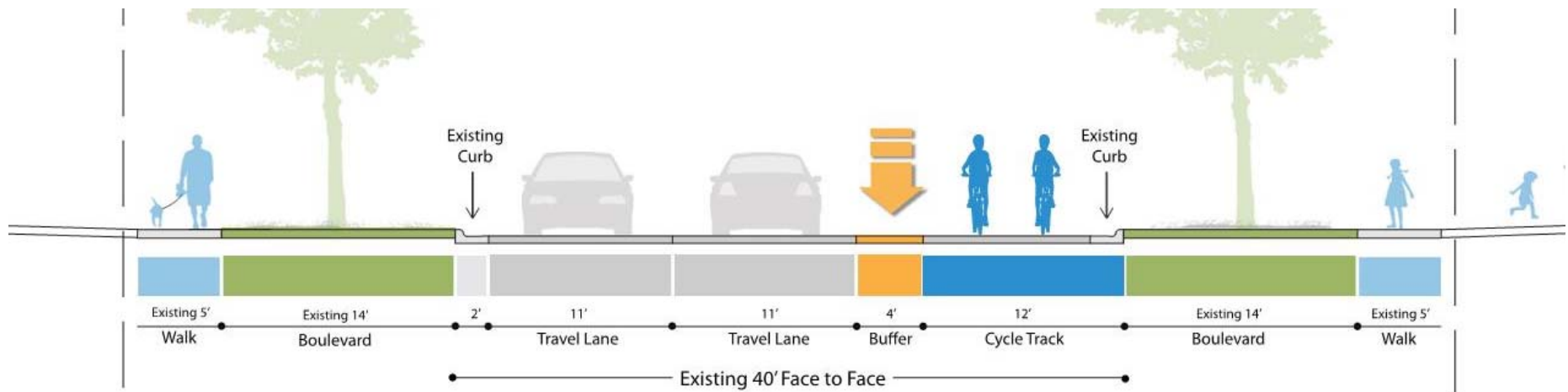


Existing Street Configuration



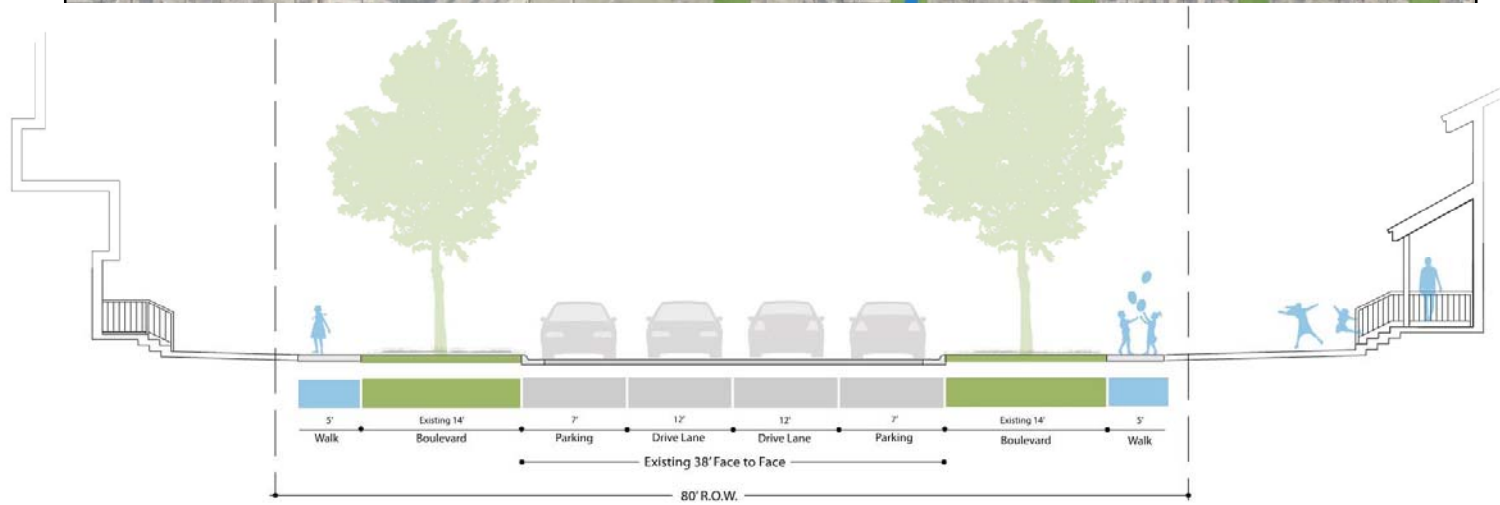
Fourth Street Bikeway Improvements

- Nevada Street to Prairie Street
- On-Street Cycle Track
 - Fits in Existing Street Footprint
 - Painted Buffer but No Physical Barrier
 - Family-Oriented Bicycle Facility that appeals to wide range of users
 - On-Street Parking for residents will be relocated to adjacent streets



College Street Bikeway Improvements

First Street – Third Street

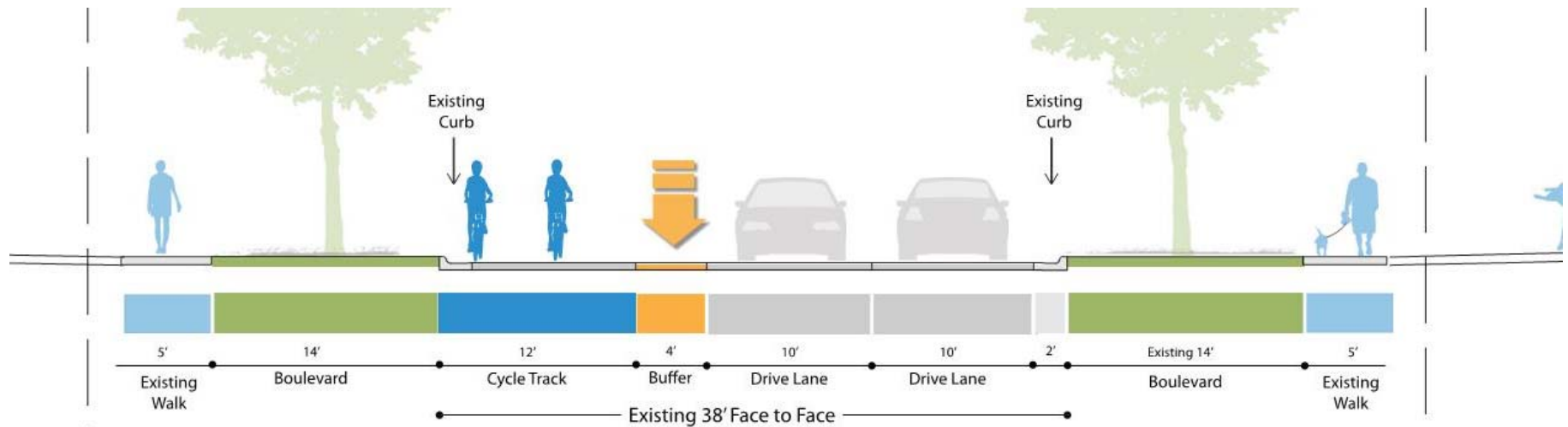


Existing Street Configuration

College Street Bikeway Improvements

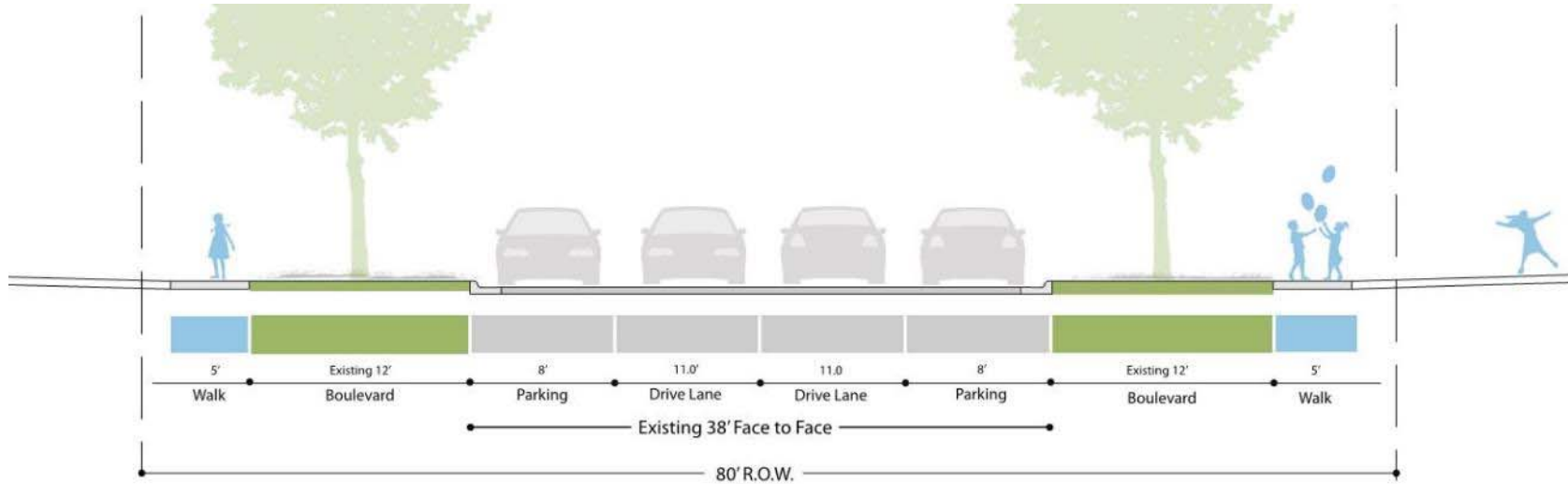
First Street – Third Street

- First Street to Third Street
- On-Street Cycle Track (funded by Carleton College)
 - Fits in Existing Street Footprint
 - Painted Buffer but No Physical Barrier
 - Family-Oriented Bicycle Facility that appeals to wide range of users
 - On-Street Parking for residents will be relocated to adjacent streets



Second Street Bikeway Improvements

Washington Street – Oak Street

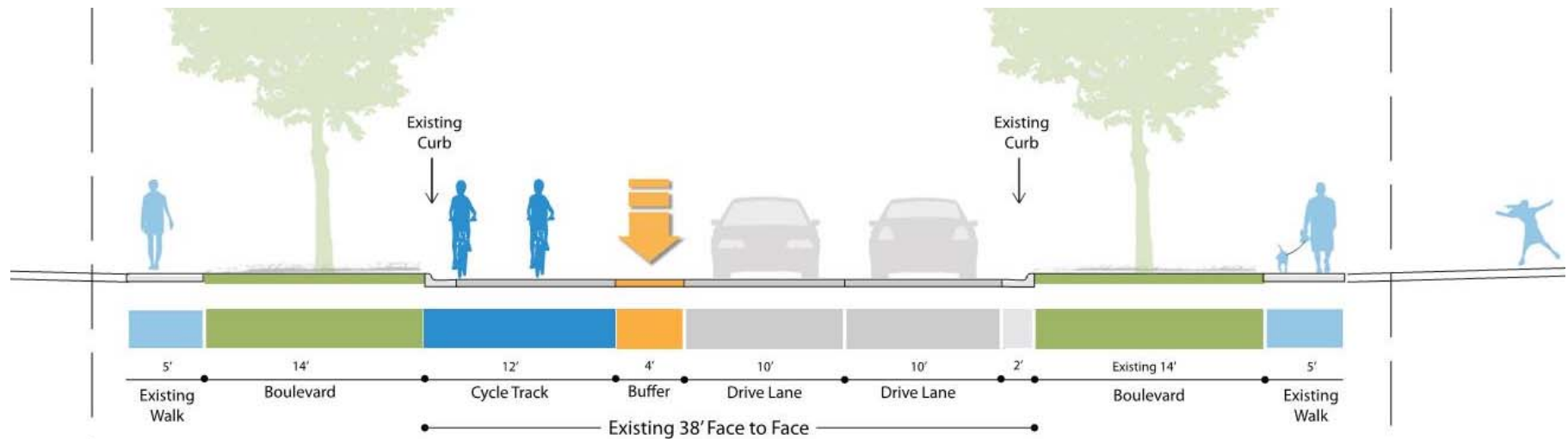


Existing Street Configuration

Second Street Bikeway Improvements

Washington Street – Oak Street

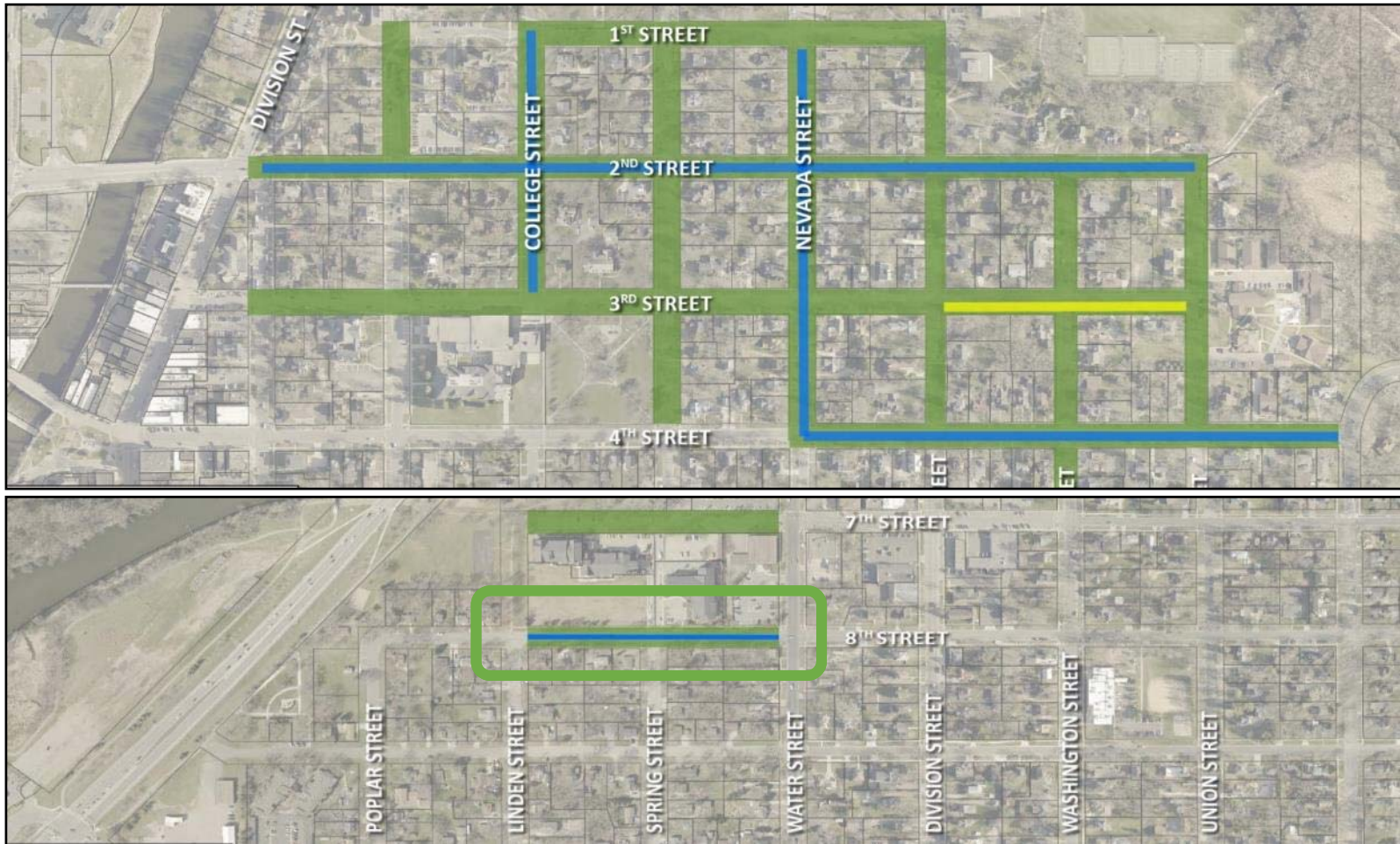
- Washington Street to Oak Street
- On-Street Cycle Track
 - Fits in Existing Street Footprint
 - Painted Buffer but No Physical Barrier
 - Family-Oriented Bicycle Facility that appeals to wide range of users
 - On-Street Parking for residents will be relocated to adjacent streets



Existing Street Configuration

Nevada & Eighth St. Bikeway Improvements

First Street – Fourth Street
Linden Street – Water Street

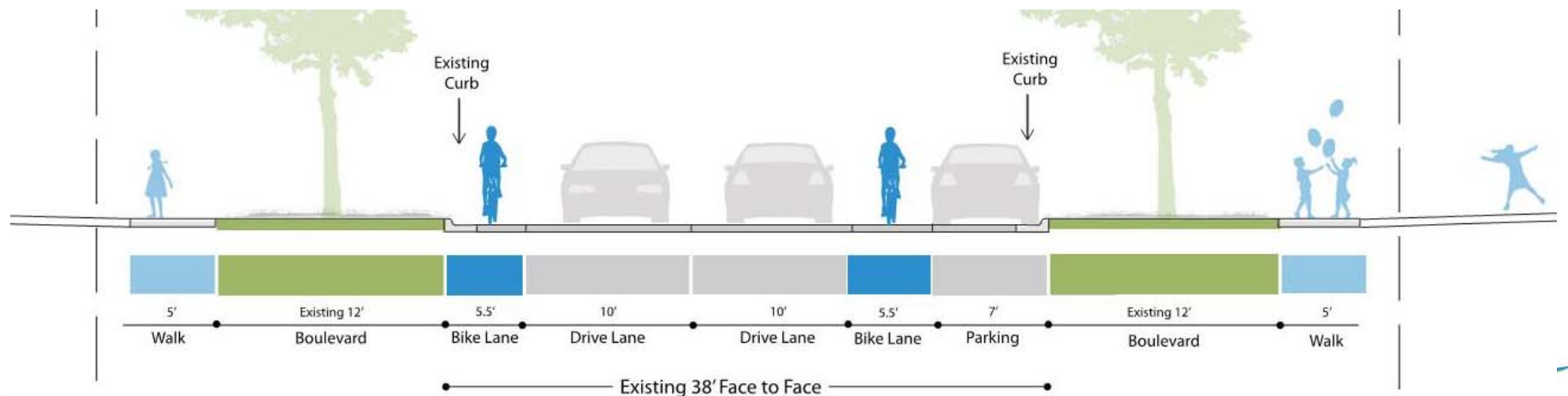
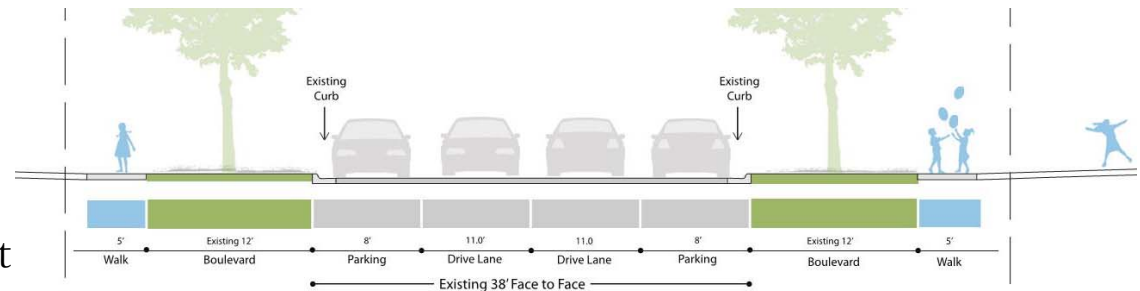


Nevada & Eighth St. Bikeway Improvements

- First St to Fourth St & Linden St to Water St

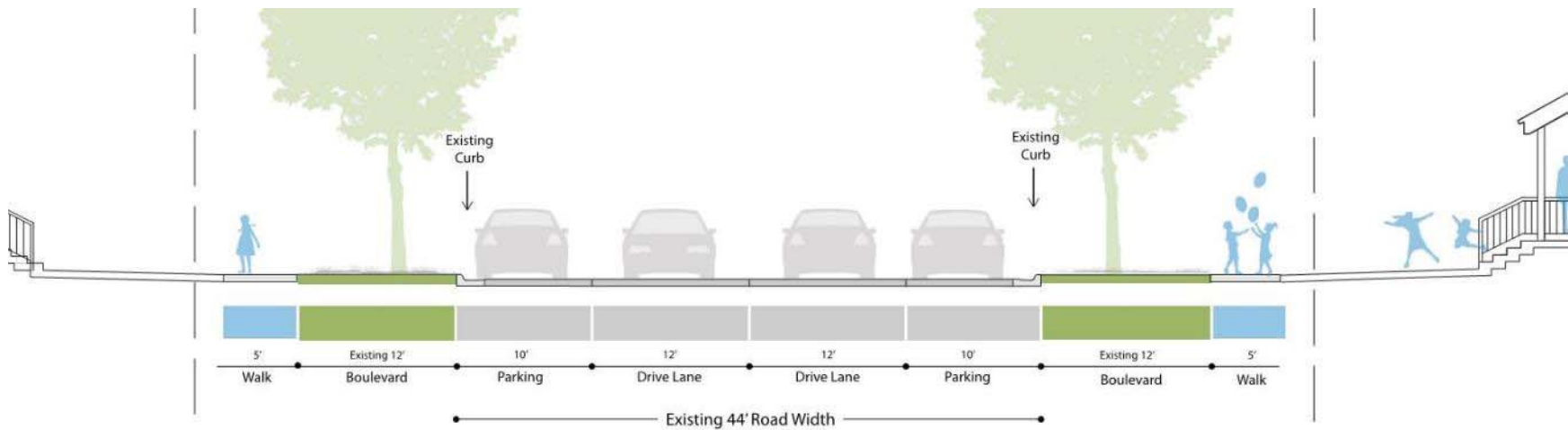
- On-Street Bike Lanes

- Fits in Existing Street Footprint
- No Buffer (Commuter Accommodation)
- Maintains Parking on One Side



Heritage Drive Bikeway Improvements

Hwy 3 – 500 ft west of Hidden Valley Rd



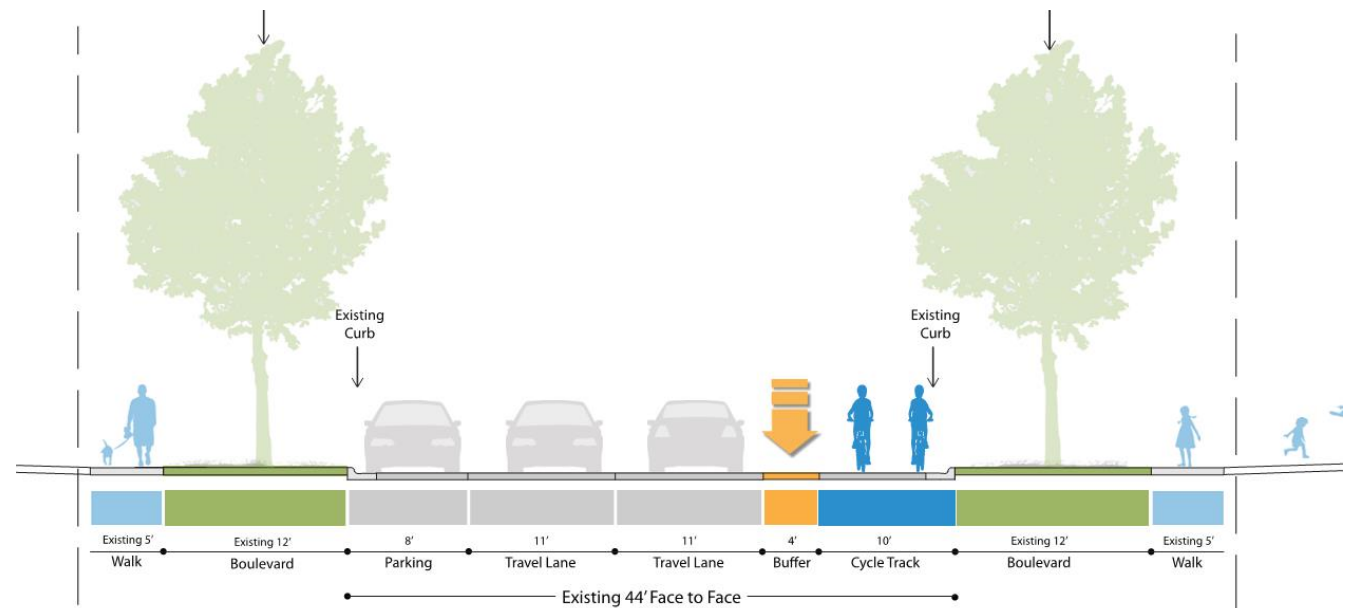
Existing Street Configuration

Heritage Drive Bikeway Improvements

Hwy 3 – 500 ft west of Hidden Valley Rd

On-Street Cycle Track

- Fits in Existing Street Footprint
- Painted Buffer but No Physical Barrier
- Maintains Parking on One Side



- Jefferson Road (Heritage Dr to Hidden Valley Rd) will match Existing Bikeway Layout

Estimated Project Costs


ESTIMATED TOTAL PROJECT COSTS	
	ESTIMATED COSTS
Street	\$2,881,327
Storm Sewer	\$230,490
Sanitary Sewer	\$27,550
Watermain	\$14,575
<i>Subtotal</i>	<i>\$3,153,942</i>
<i>Art (1%)</i>	<i>\$31,539</i>
<i>Subtotal with Art</i>	<i>\$3,185,481</i>
Contingency (10%)	\$318,548
<i>Construction Total</i>	<i>\$3,504,029</i>
<i>Overhead (20%)</i>	<i>\$700,806</i>
PROJECT COSTS	\$4,204,835

Estimated Project Funding

TOTAL PROJECT FUNDING	
FUNDING SOURCE	ESTIMATED FUNDING
Bonding	\$2,995,552
Assessments	\$848,559
Storm Fund	\$304,984
Sanitary Fund	\$36,454
Water Fund	\$19,286
TOTAL FUNDING	\$4,204,835



Project Process

- *Aug 20, 2019* - *Order Preparation of Feasibility Report/ Approve Scope of Services Contract*
 - *Oct 2, 2019* - *Neighborhood Meeting #1*
 - *Oct 15, 2019* - *Council Direction on Bikeway & Sidewalk Concepts*
 - *Nov 5, 2019* - *Accept Feasibility Report & Call for Improvement Hearing & Order Preparation of Plans & Specifications*
 - *Dec 3, 2019* - *Public Improvement Hearing & Order Improvements*
 - **Jan 7, 2020** - **Order Improvement**
 - *Jan 8, 2020* - *Neighborhood Meeting #2*
 - *Jan 14, 2020* - *Council Work Session on Final Plans*
 - *Jan 21, 2020* - *Approve Final Plans/Specs & Order Advertisements for Bids*
 - *Feb 20, 2020* - *Bid Opening*
 - *March 10, 2020* - *Accept Bids & Award Contract*
 - *April 14, 2020* - *Declare Amount to be Assessed/Call for Assessment Hearing*
 - *April 2020* - *Property Owner Meetings*
 - *May 5, 2020* - *Assessment Hearing/Adopt Assessment Roll*
 - *June to Oct 2020* - *Construction*
 - *June 2021* - *Accept Improvements & Authorize Final Payment*
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Improvement Hearing Questions

December 3, 2019 Improvement Hearing

- Staff report contains a list of the question received at the hearing and responses
- Questions were related to Street Layouts, snow removal, bicycle facilities, pavement strength, and bumpouts



Recommended Action Tonight

Ordering the Mill and Overlay Improvement Project.

- The proposed streets for improvement have been identified in this presentation and the project Feasibility Report
- Staff recommends ordering the improvement as this is the correct improvement for these streets at their current age and condition.
- Staff recommendation to Council is further discussion on the final project design is set for January 14 Council Works Session and the improved should be ordered unless there is an entire street segment Council elects to remove from the project.



Questions

Project Website:

<https://www.ci.northfield.mn.us/1313/2020-Mill-and-Overlay-Project>

