



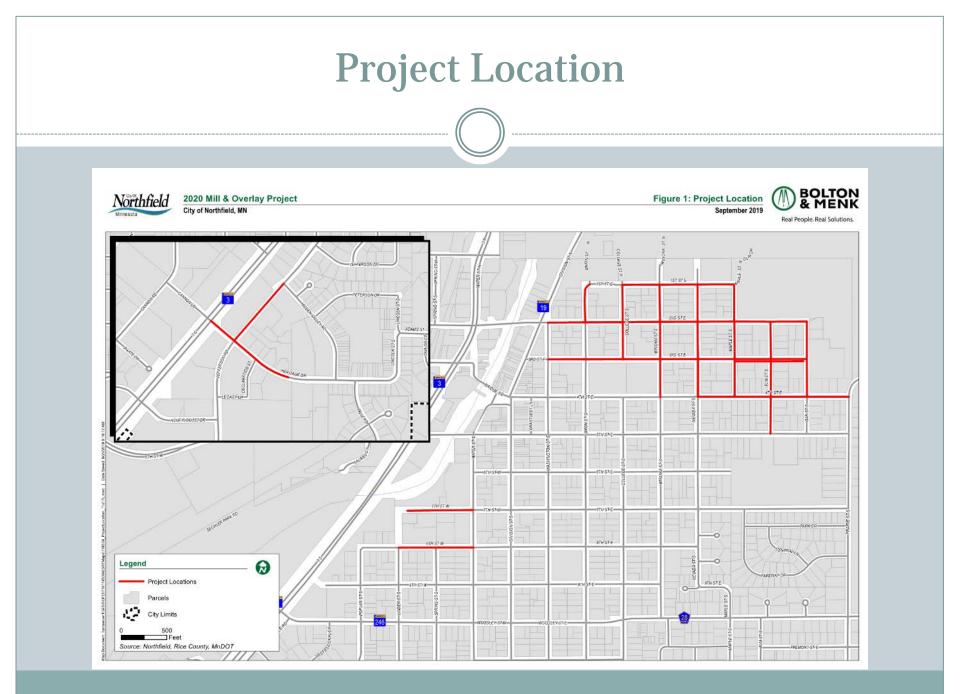
Real People. Real Solutions.

#### **2020 MILL & OVERLAY PROJECT**

#### CITY COUNCIL MEETING IMPROVEMENT HEARING 12/03/2019

#### 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



#### **Drainage Analysis**

- Paving will correct potholes and flat X-Slope roads that hold water by re-establishing the crown in the road
   This 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
- Final design will be analyzed for remaining drainage issues
  - 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

#### **Intersections Bump-out Analysis**

- Bump-outs Increase Pedestrian Safety and Traffic Calming
- Intersection Crosswalks Pedestrian Flow Observation
  - Intersections Categorized by Observed Crossing Density
- 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 O-D trip generation: institutions, schools, parks, etc. and high children %

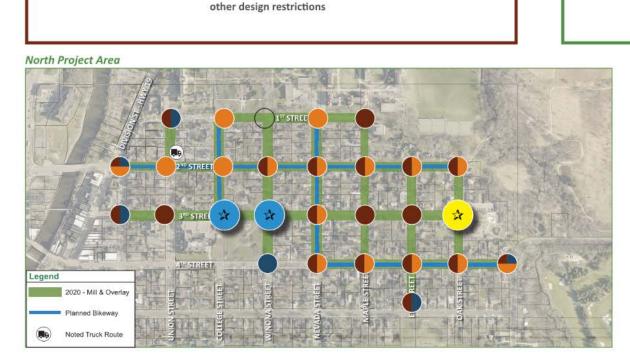
   Input from residents and City considered
- Storm Sewer Relocation Necessary to Accommodate
- Bump-outs Suggested for 3 Intersections:
  - Third Street & Oak Street (Near Laura Baker Services Association)
  - Third Street & Winona Street (near Central Park)
  - Third Street & College Street (near Weitz Center)

### **Bump-out Selection Map**

The intersection was

on the edge of project

limits



Intersections prioritized based on nearby attractions and assumed userbase

**Selected intersections** 

Intersections prioritized based on feedback from residents and city council

#### South Project Area







Low density of

pedestrian crossings

observed

Intersections were eliminated because...

2020 Mill and Overlay Project Bumpout Selection Map

The street did not have

parking lanes OR the street

has proposed bikeways or

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

#### **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

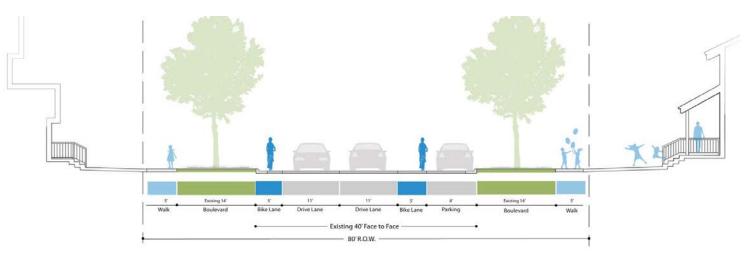
 Bikeway additions are only portions of the overall planned bikeway system

 Considerations on how each option will fit and/or transition to existing and future improvements

#### **Fourth Street Bikeway Improvements**

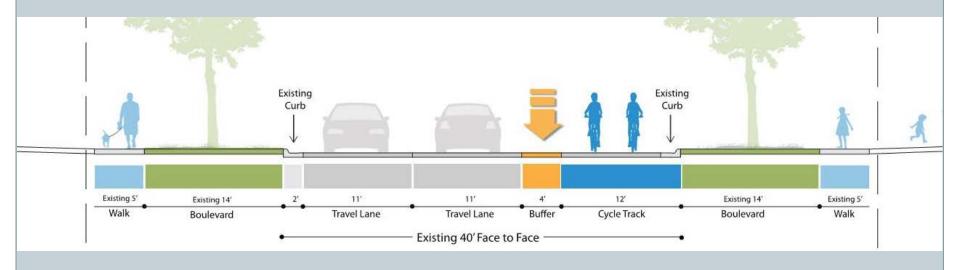
#### Nevada Street – Prairie Street





### **Fourth Street Bikeway**

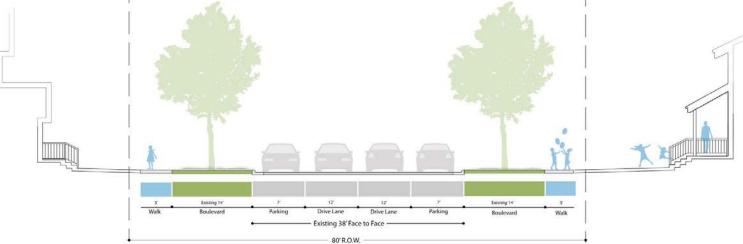
- Nevada Street to Prairie Street
- On-Street Cycle Track
  - Fits in Existing Street Footprint
  - Painted Buffer but No Physical Barrier
  - Eliminates Parking



#### **College Street Bikeway Improvements**

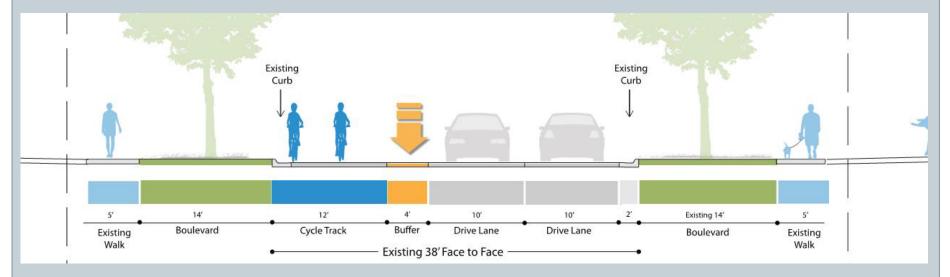
#### First Street – Third Street



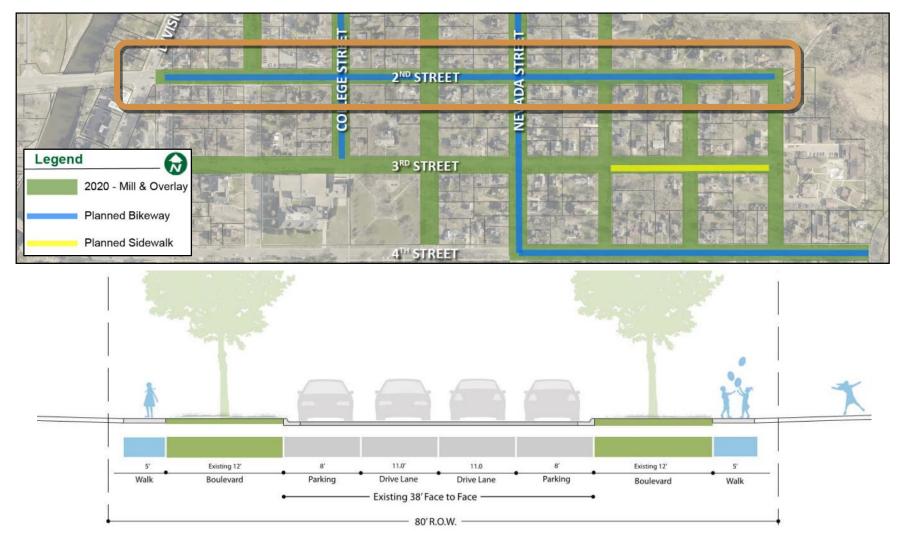


## **College Street Bikeway**

- First Street to Third Street
- On-Street Cycle Track (funded by Carleton College)
  - Fits in Existing Street Footprint
  - Painted Buffer but No Physical Barrier
  - Eliminates Parking

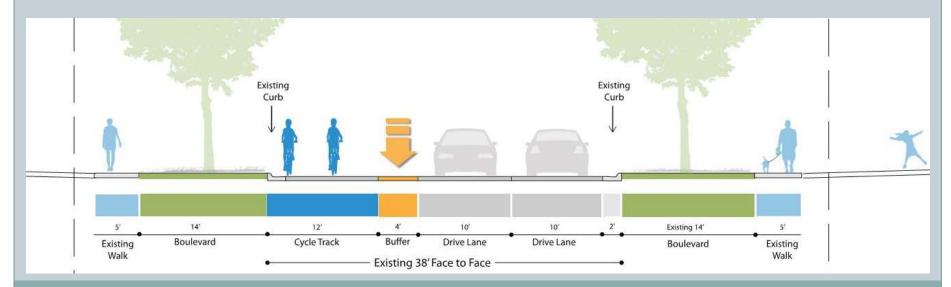


#### Second Street Bikeway Improvements Washington Street – Oak Street



### **Second Street Bikeway**

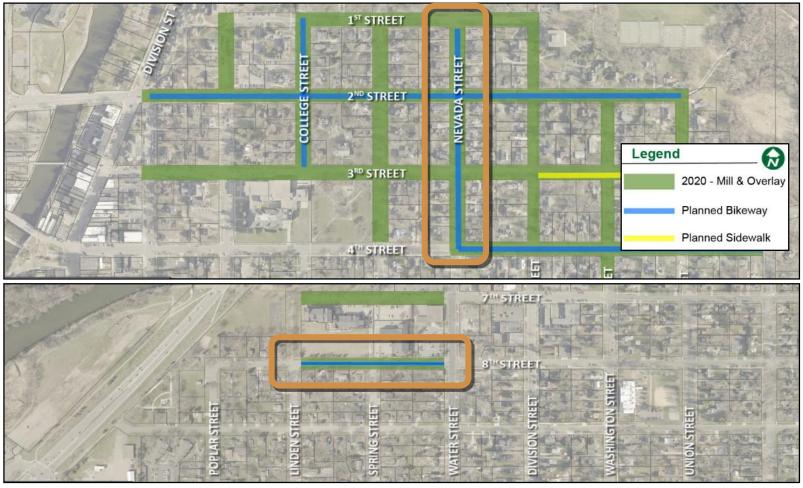
- Washington Street to Oak Street
- On-Street Cycle Track
  - Fits in Existing Street Footprint
  - Painted Buffer but No Physical Barrier
  - Eliminates Parking



### Nevada Street & Eighth Street Bikeway Improvements

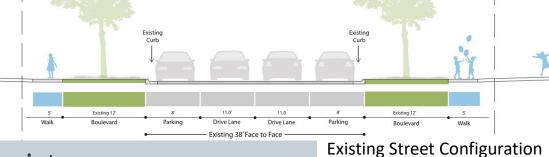
First Street – Fourth Street

Linden Street – Water Street

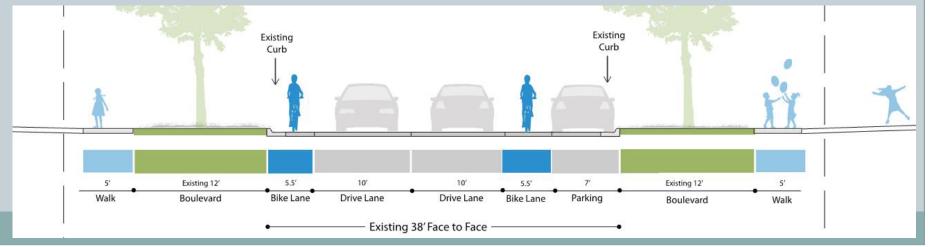


### Nevada Street & Eighth Street Bikeway

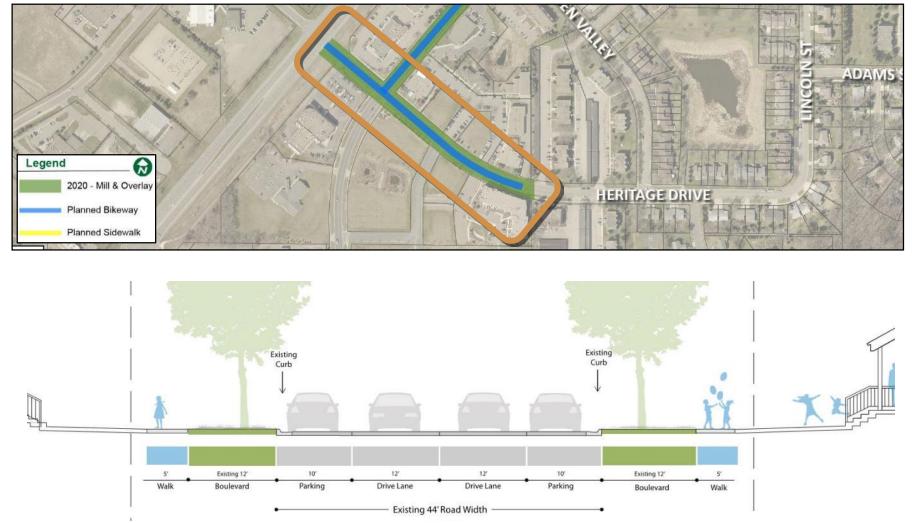
• First St to Fourth St & Linden St to Water St



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



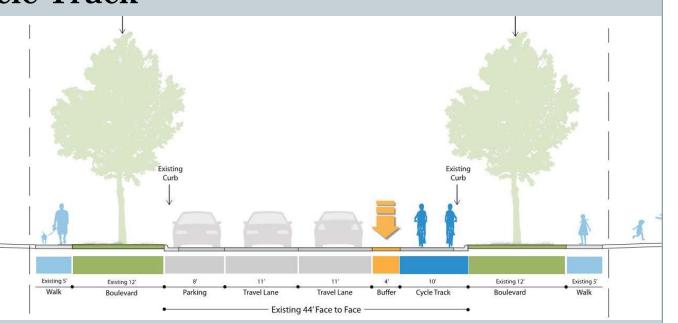
# Hwy 3 – 500 ft west of Hidden Valley Rd



## Heritage Drive Bikeway

# TH 3 to 500 ft. west of Hidden Valley Road 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    |
| Subtotal                      | \$3,153,942 |
| Art (1%)                      | \$31,539    |
| Subtotal with Art             | \$3,185,481 |
| Contingency (10%)             | \$318,548   |
| Construction Total            | \$3,504,029 |
| Overhead (20%)                | \$700,806   |
| 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
- Oct 2, 2019
- Oct 15, 2019
- Nov 5, 2019
- Dec 3, 2019
- Jan 7, 2020
- Jan 8, 2020
- Jan 14, 2020
- Jan 21, 2020
- Feb 20, 2020
- March 10, 2020
- April 14, 2020
- April 2020
- May 5, 2020
- June to Oct 2020
- June 2021

- Order Preparation of Feasibility Report/Approve Scope of Services Contract
- Neighborhood Meeting #1
- Council Direction on Bikeway & Sidewalk Concepts
- Accept Feasibility Report & Call for Improvement Hearing & Order Preparation of Plans & Specifications

#### - Public Improvement Hearing & Order Improvements

- -Order Improvement
- Neighborhood Meeting #2
- Council Work Session on Final Plans
- Approve Final Plans/Specs & Order Advertisements for Bids
- Bid Opening
- Accept Bids & Award Contract
- Declare Amount to be Assessed/Call for Assessment Hearing
- Property Owner Meetings
- Assessment Hearing/Adopt Assessment Roll
- Construction
- Accept Improvements & Authorize Final Payment



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