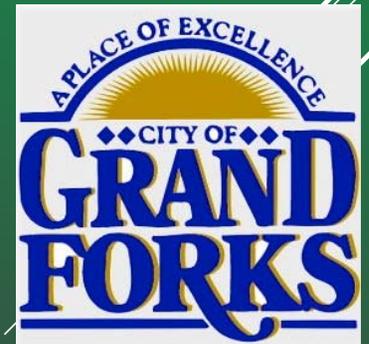
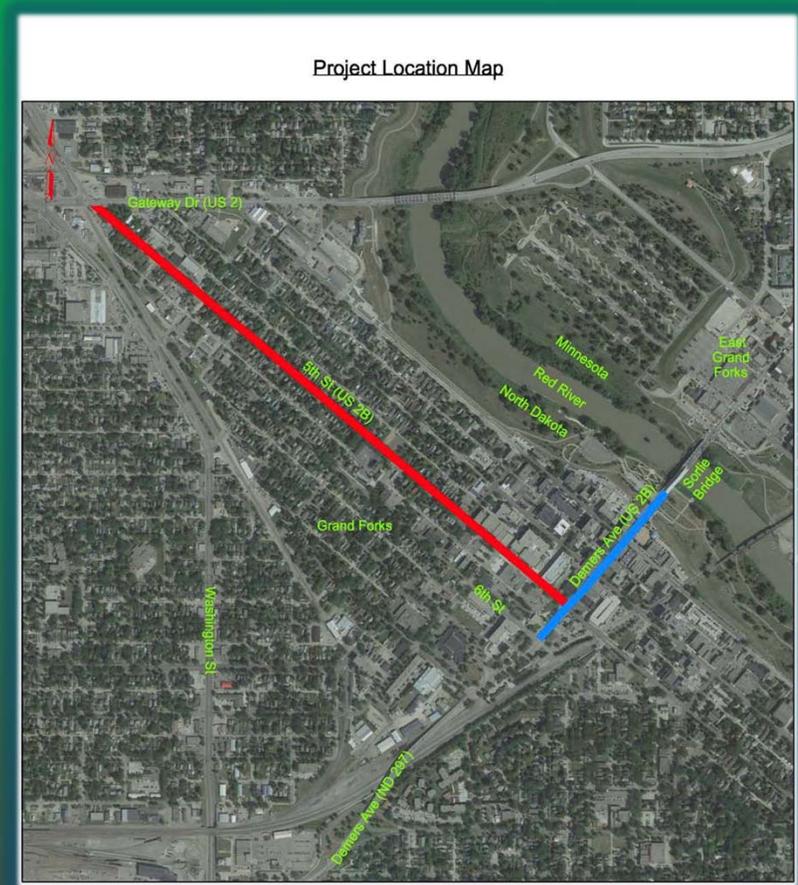


# US 2 BUSINESS LOOP GRAND FORKS, ND



# US HIGHWAY 2 BUSINESS LOOP PROJECTS

- ▶ 5th Street – Gateway Drive to Demers Avenue
- ▶ Demers Avenue – 6th Street to Sorlie Bridge



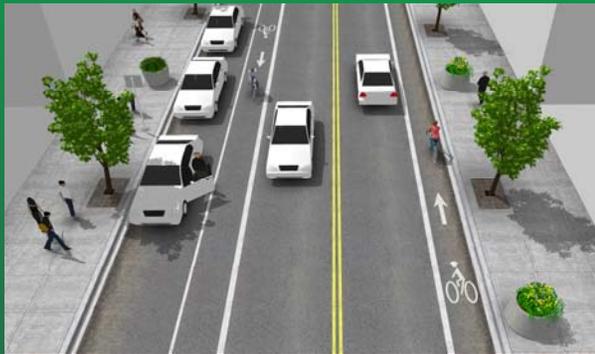
# 5<sup>TH</sup> STREET - GATEWAY DRIVE TO DEMERS AVENUE

- ▶ Project Strategy
  - ▶ Mill & Overlay
    - ▶ Remove & Replace Top Surface Of Pavement
    - ▶ Replace Sub-Standard Curb Ramps
    - ▶ Potentially Add Pavement Marking For Bicycles
- ▶ Tied to Demers Ave Project
- ▶ Projected Cost - \$ 950,000
- ▶ 2019 Construction
  - ▶ Subject To Funding Availability

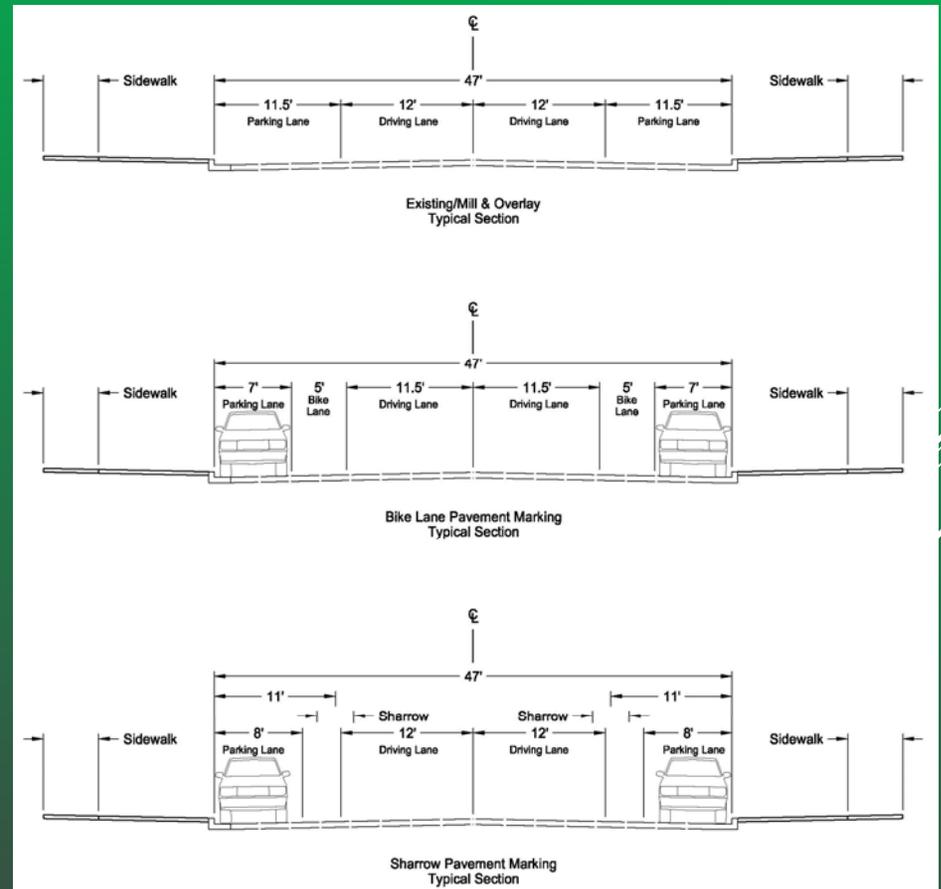


# 5<sup>TH</sup> STREET - GATEWAY DRIVE TO DEMERS AVENUE

- ▶ Pavement Marking Options for Bicycles
  - ▶ Bike Lane (Gateway Dr to 6<sup>th</sup> Ave N Only)



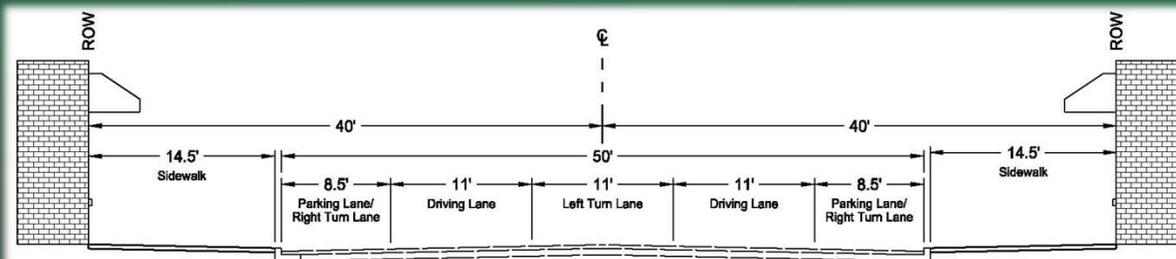
- ▶ Sharrows



# DEMERS AVENUE TODAY



Current Average Daily Traffic  
(2017)  $\approx$  15,000  
Trucks  $\approx$  200  
Passenger Cars  $\approx$  14,800



# DEMERS AVENUE – 6<sup>TH</sup> STREET TO SORLIE BRIDGE

- ▶ No Set Strategy
    - ▶ Mill & Overlay or Reconstruction
  - ▶ Met with Downtown Stakeholders to determine what they wanted for Demers
    - ▶ Mill & Overlay
      - ▶ Don't want reconstruction impacts
      - ▶ With enhancements
    - ▶ Reconstruction
      - ▶ More pedestrian friendly
      - ▶ More bicycle friendly
  - ▶ 2019 Construction
    - ▶ Subject To Funding Availability
    - ▶ May Be Delayed Until 2020 If Reconstruction Is Selected
- 

# DEMERS AVENUE – PROJECT FUNDING

- ▶ Funding For Federal Aid Eligible Items
    - ▶ 80.93% Federal
    - ▶ 9.07% State
    - ▶ 10% City
  - ▶ City Utility Replacement and Other Non-Eligible Item Funding
    - ▶ 100% City
  - ▶ Roadway Enhancement Funding
    - ▶ City will need to request desired enhancements for review and approval of the NDDOT
    - ▶ Decorative lighting and brick paver sidewalk pre-approved as each is an existing feature
- 

# PROJECT TIMELINE

- ▶ Public Input Meeting January 2018
- ▶ Present Decision Document to City Council February 2018
- ▶ Environmental Document Spring 2018
- ▶ Project Design Summer & Fall 2018
- ▶ Bid Opening\* November 2018
- ▶ Construction\* Summer 2019

\*If reconstruction is selected, it is anticipated that the 5<sup>th</sup> St and Demers Ave projects would be split and Demers Ave would be bid and constructed one year later.

# CURB EXTENSIONS

- ▶ Provide shorter crossing distance
- ▶ Provides better sight distance between vehicles and pedestrians
- ▶ Remove right turn lanes
- ▶ Makes turning more difficult for large vehicles

Without Curb Extensions



With Curb Extensions



# DEMERS AVENUE – ALTERNATIVES

## 1. Mill & Overlay w/ Enhancements

- ▶ 59 Parking Spots on Demers
- ▶ Estimated Cost ≈ \$ 350,000
- ▶ Design Life = 10 Years
- ▶ Time for Construction = 1-2 Weeks for Paving, 4-6 Weeks for Curb Ramps

## 2. Reconstruction Option A : Reconstruction

- ▶ 62 Parking Spots on Demers
  - ▶ Both parking lanes remain
  - ▶ Estimated Cost ≈ \$6,500,000
  - ▶ Design Life = 30 Years
  - ▶ Time for Construction = 4-6 Months
- 

# DEMERS AVENUE – ALTERNATIVES

## 3. Reconstruction Option B: Reconstruction w/ Bike Lanes

- ▶ One parking lane removed
- ▶ 33 parking spots on Demers
- ▶ Estimated Cost ≈ \$6,500,000
- ▶ Design Life = 30 Years
- ▶ Time for Construction = 4-6 Months

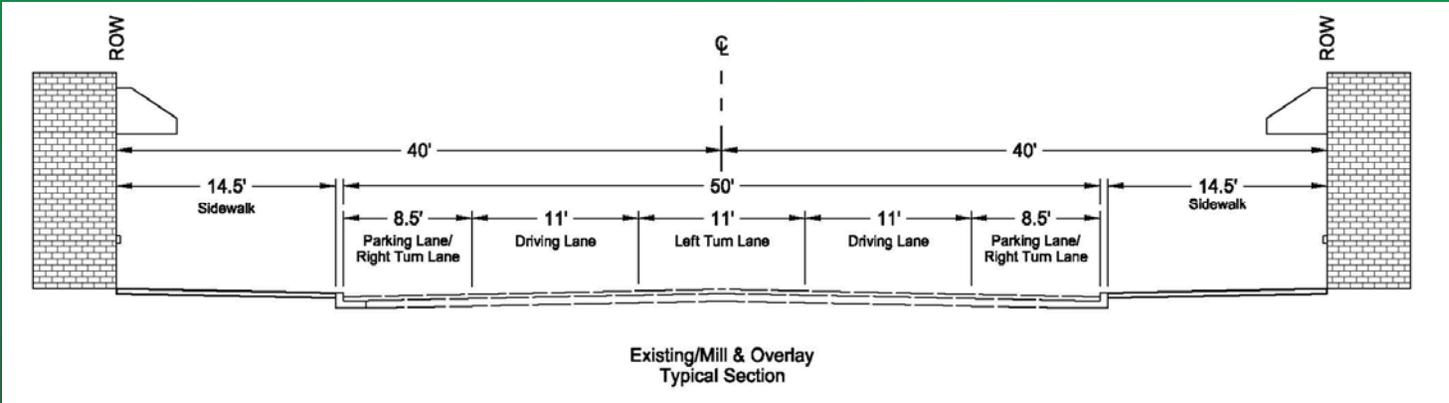
## 4. Reconstruction Option C: Reconstruction w/ Wider Sidewalks

- ▶ One parking lane removed
  - ▶ 31 parking spots on Demers
  - ▶ Estimated Cost ≈ \$6,500,000
  - ▶ Design Life = 30 Years
  - ▶ Time for Construction = 4-6 Months
- 

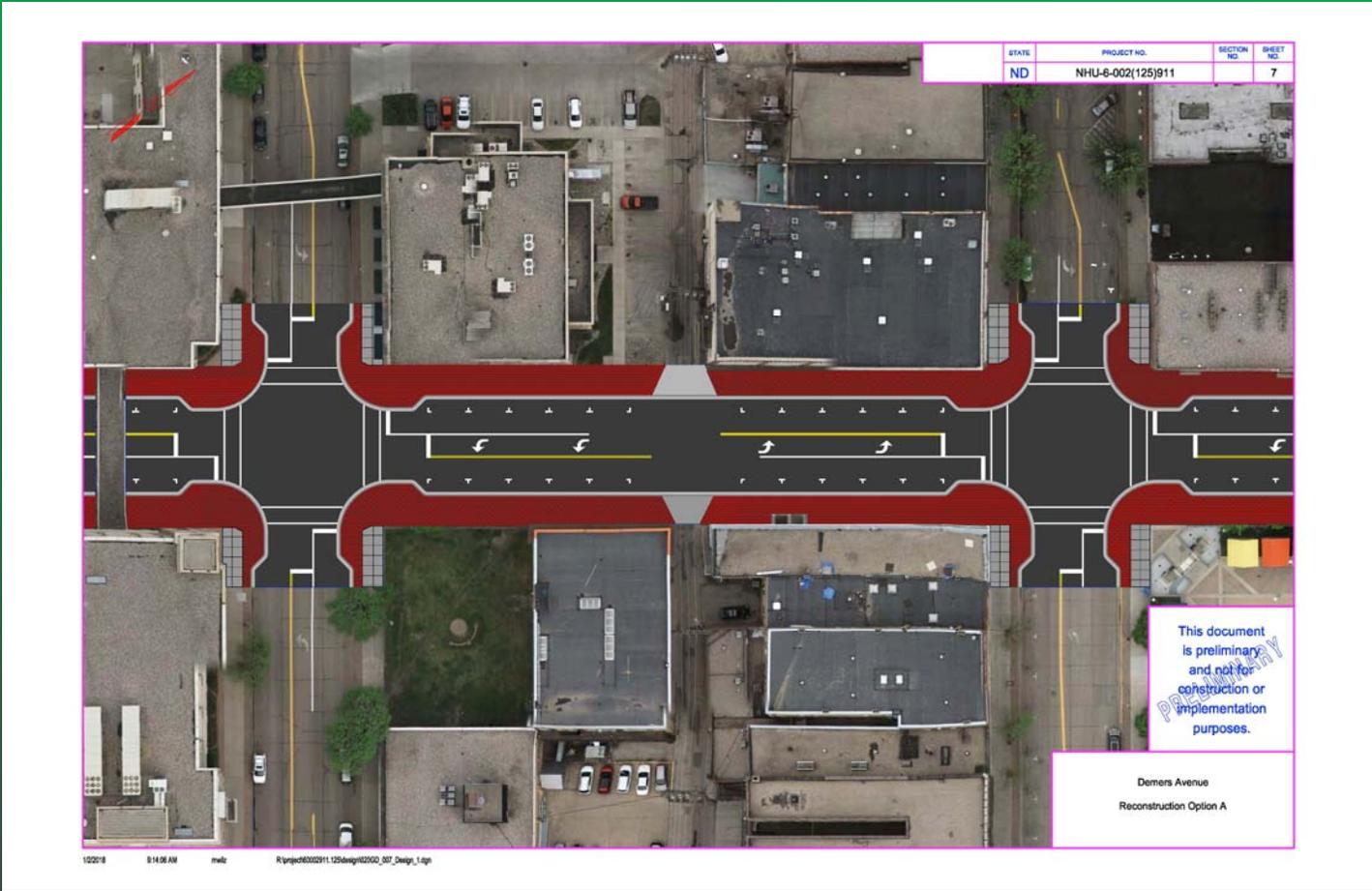
# DEMERS AVENUE – MILL & OVERLAY



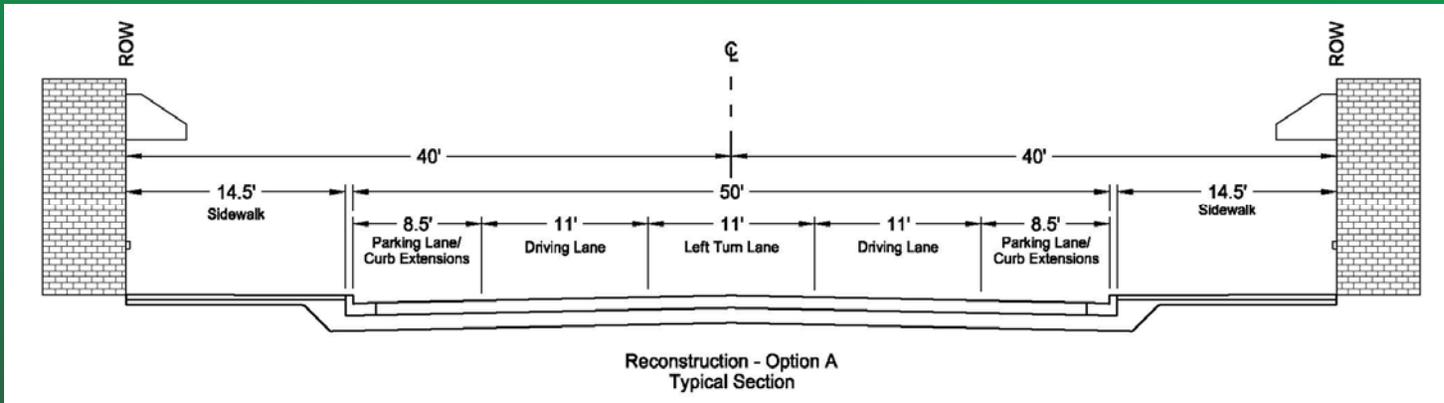
# DEMERS AVENUE – MILL & OVERLAY



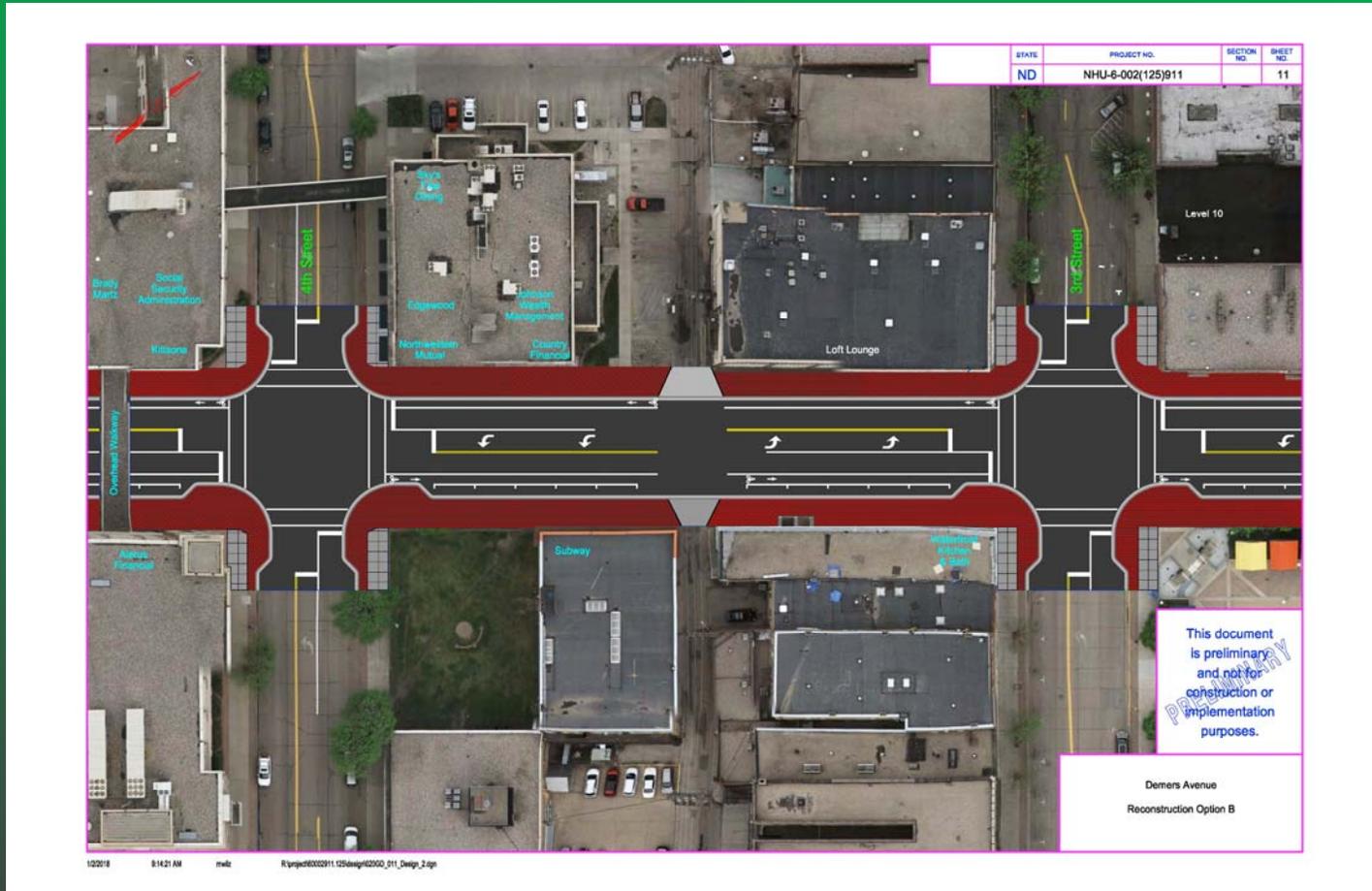
# DEMERS AVENUE – RECONSTRUCTION OPTION A



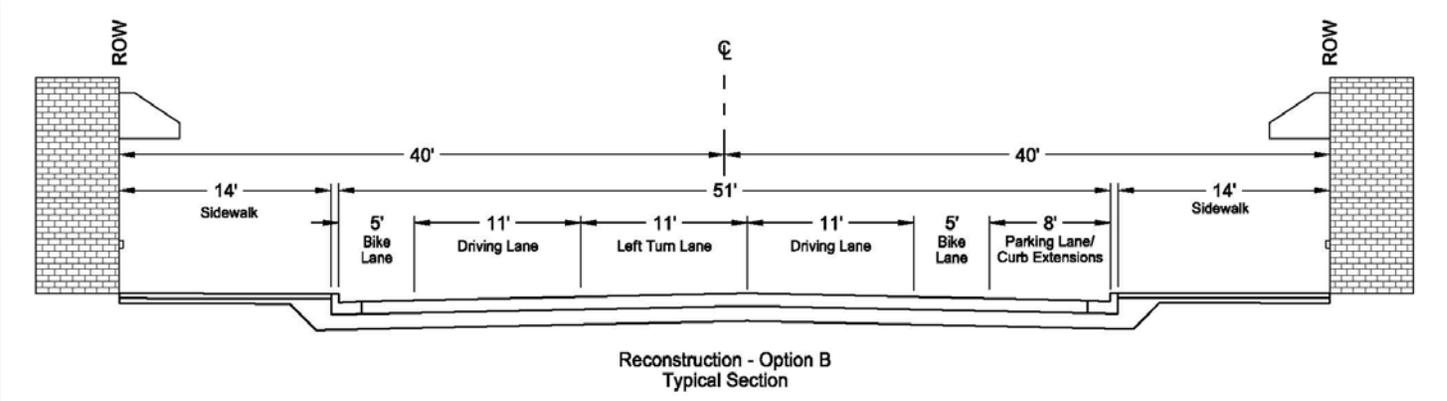
# DEMERS AVENUE – RECONSTRUCTION OPTION A



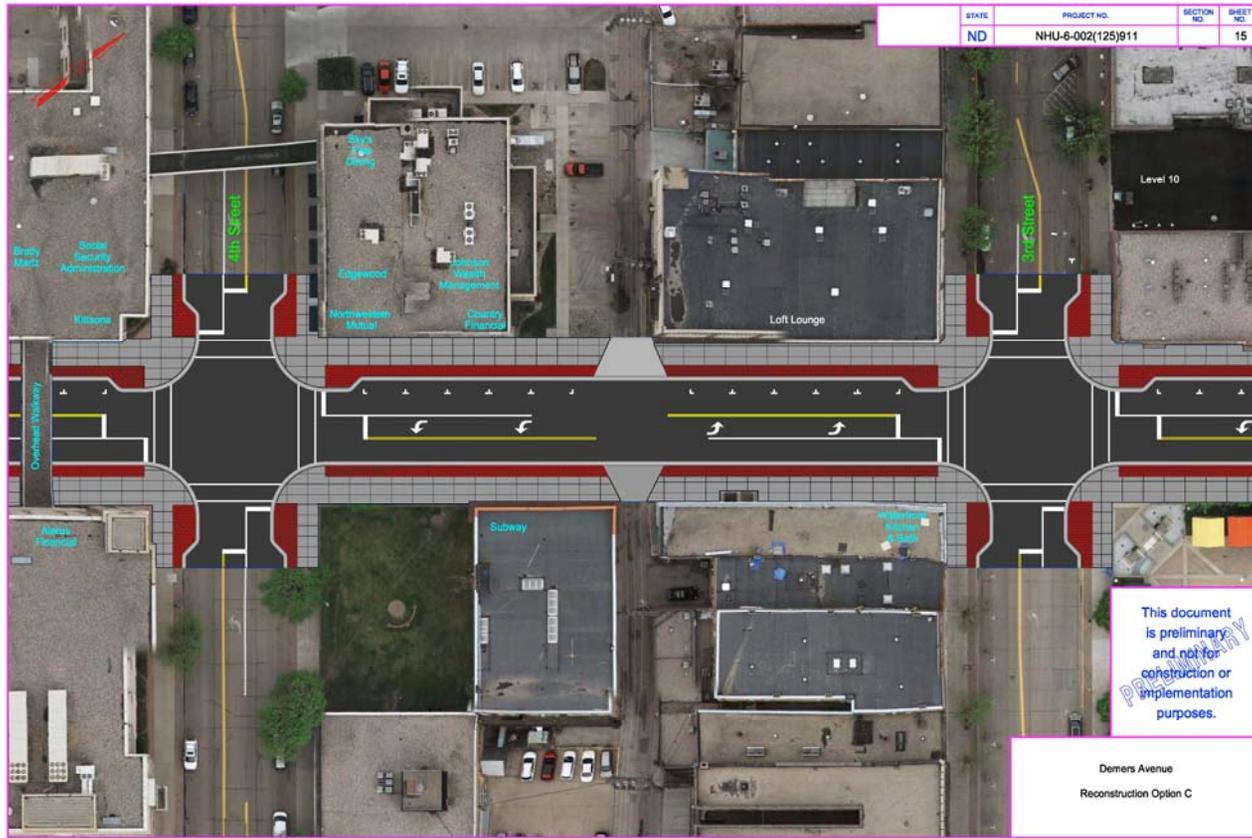
# DEMERS AVENUE – RECONSTRUCTION OPTION B



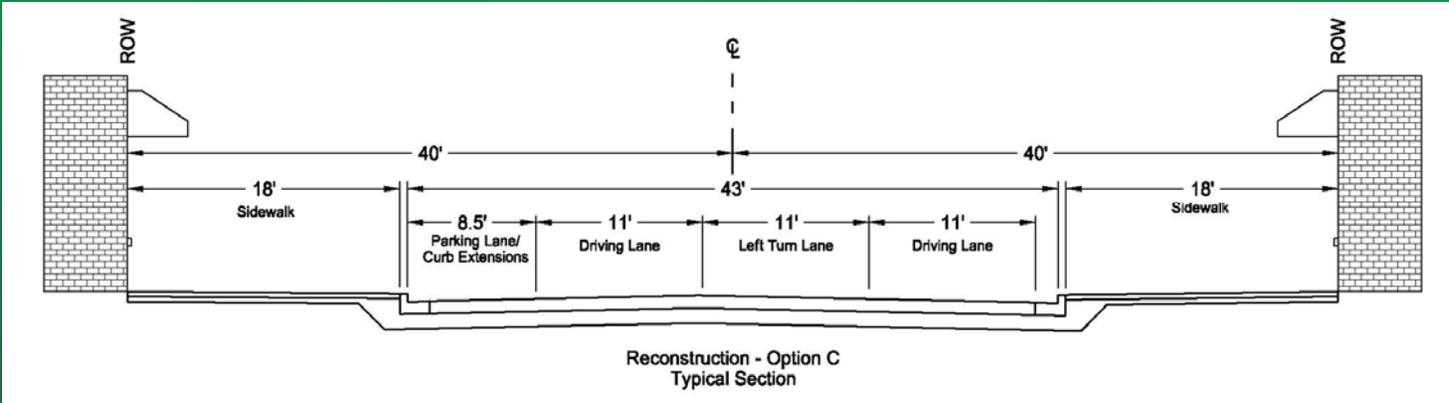
# DEMERS AVENUE – RECONSTRUCTION OPTION B



# DEMERS AVENUE – RECONSTRUCTION OPTION C



# DEMERS AVENUE – RECONSTRUCTION OPTION C



# DEMERS AVENUE – ADVANTAGES/DISADVANTAGES

Alternative/Option	Advantages	Disadvantages
Mill & Overlay	<ul style="list-style-type: none"> <li>-Least Expensive</li> <li>-Quickest to Construct</li> <li>-No Loss in Parking</li> </ul>	<ul style="list-style-type: none"> <li>-Roadway layout won't change</li> <li>-10 Year Design Life</li> </ul>
Reconstruction Option A: Reconstruction	<ul style="list-style-type: none"> <li>-30 Year Design Life</li> </ul>	<ul style="list-style-type: none"> <li>-Most expensive</li> <li>-Will take an entire construction season to construct</li> </ul>
Reconstruction Option B: Reconstruction w/ Bike Lanes	<ul style="list-style-type: none"> <li>-More bicylce friendly</li> <li>-30 Year Design Life</li> </ul>	<ul style="list-style-type: none"> <li>-Most expensive</li> <li>-Will take an entire construction season to construct</li> <li>- Lose 26 parking spots</li> </ul>
Reconstruction Option C: Reconstruction w/ Wider Sidewalks	<ul style="list-style-type: none"> <li>-More pedestrian friendly</li> <li>-30 Year Design Life</li> </ul>	<ul style="list-style-type: none"> <li>-Most expensive</li> <li>-Will take an entire construction season to construct</li> <li>-Lose parking 28 spots</li> </ul>
Curb Extensions	<ul style="list-style-type: none"> <li>-More pedestrian friendly</li> </ul>	<ul style="list-style-type: none"> <li>-Makes turning more difficult for large vehicles</li> <li>-Removes right turn lanes</li> <li>-Make snow removal more difficult</li> </ul>

# DEMERS AVENUE – ADVANTAGES/DISADVANTAGES

- ▶ Curb Extension Turning Movements
  - ▶ Preferred Scenario – City Bus/Fire Truck





# COMMENT CARDS

- ▶ Must be submitted by January 24<sup>th</sup>, 2018
- ▶ Leave with NDDOT Representatives Tonight
- ▶ Mail
  - ▶ James Rath, P.E.  
Program Manager  
Design Division  
ND Dept. of Transportation  
608 East Boulevard Ave  
Bismarck, ND 58505-0700
- ▶ Email
  - ▶ [jrath@nd.gov](mailto:jrath@nd.gov)

# DECISION ITEMS

## ▶ 5<sup>th</sup> Street

- ▶ What accommodation should be made for bicycles?
  - ▶ Sharrows – Bikes should share the driving lane with vehicles.
  - ▶ Bike lane – Bikes should have their own lane to use.
  - ▶ None, do not include any marked bicycle facility on 5th Street.

## ▶ Demers Ave

- ▶ What should be done with Demers Ave?
  - ▶ Mill & Overlay Demers Avenue
  - ▶ Reconstruction Option A: Reconstruct Demers Avenue
  - ▶ Reconstruction Option B: Reconstruct Demers Avenue w/ Bike Lanes
  - ▶ Reconstruction Option C: Reconstruct Demers Avenue w/ Wider Sidewalks
  - ▶ Other

# DECISION ITEMS

## ▶ Demers Ave

- ▶ Should curb extensions be a part of the design if Demers Ave is reconstructed?
    - ▶ Yes
    - ▶ No
  - ▶ If parking would be removed from one side of Demers Ave, what side of the road should parking remain on?
    - ▶ North (Along Bonser's, Edgewood Plaza, The Loft, etc)
    - ▶ South (Along Empire Arts Center, Subway, Town Square, etc)
- 

# DEMERS AVENUE – PROJECT WEBSITE

- ▶ [www.dot.nd.gov/projects/grandforks/demers/](http://www.dot.nd.gov/projects/grandforks/demers/)
- ▶ Or [www.dot.nd.gov](http://www.dot.nd.gov)
  - ▶ Search Projects
  - ▶ Click on Projects search result
  - ▶ Click on Grand Forks District
- ▶ Handouts, Presentation, Comment Cards are available on the website
- ▶ 3D Models
  - ▶ Viewable from Home or Work
  - ▶ No Special Software Needed
  - ▶ Link on Project website
  - ▶ [Demo](#)

# QUESTIONS?

