





## Public Input Meeting

Main Avenue (US 10) Reconstruction – 25<sup>th</sup> Street to University Drive NDDOT Project No. NHU-CPU-8-010(046)938, PCN 23199 City of Fargo Project No. BR-23-A







#### **Introductions – Presenters**



Matt Kinsella Project Manager





Jacob Nordick SRF Task Manager





Sara Schmidt Traffic Analysis



## **Project Team**

## **Agency Partners**









## **Consultant Team**











## **Getting Started**

- Please Sign In
- Informational Handout
- Comment Form
- Title VI Public Participation Survey (Optional)
- 3D Visualizations & Interactive Sidewalk Station
- Live Polling at Conclusion: PollEv.com





## **Tonight's Agenda**

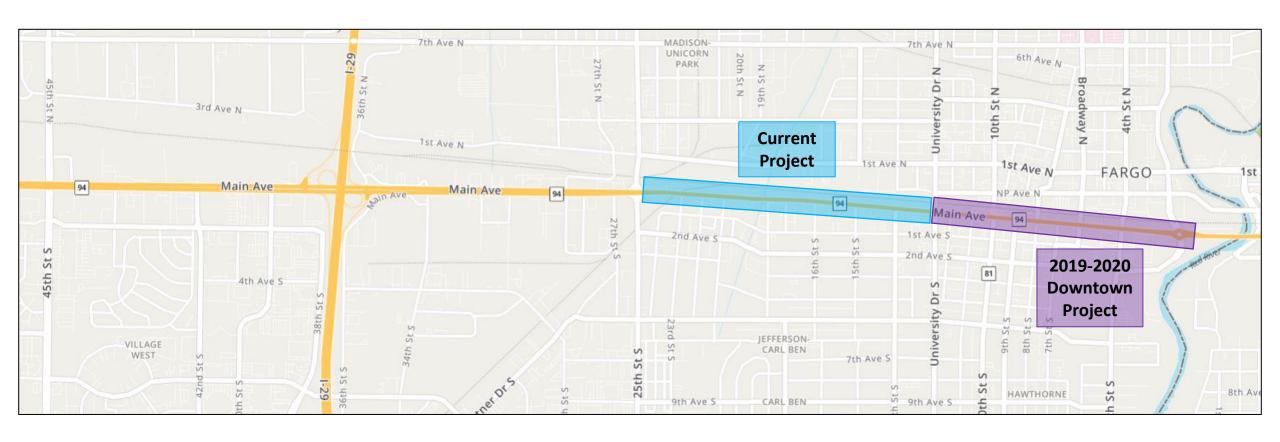
- Project Overview
- Traffic Analysis and Alternative Development
- Proposed Alternatives
- Other Project Considerations
- Estimated Cost and Next Steps







## **Project Location**

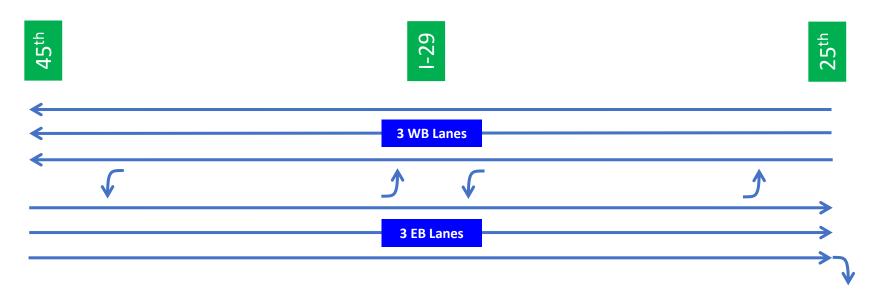




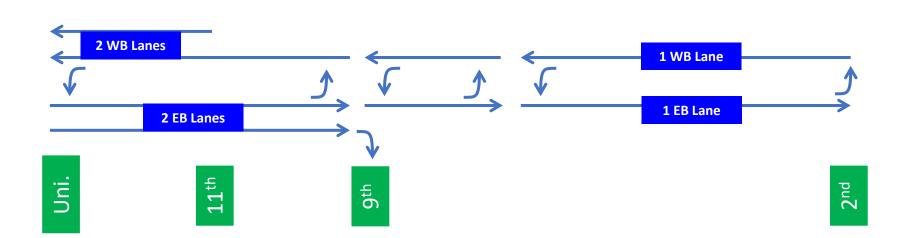


## **Surrounding Corridor Context**

45<sup>th</sup> Street to 25<sup>th</sup> Street



University Drive to 2<sup>nd</sup> Street





## **Project Purpose and Need**

- Replace aging corridor infrastructure (pavement and utilities)
- Improve pedestrian environment and upgrade ADA facilities
- Close or consolidate access points to address access management
- Support local and regional mobility





## **Project Schedule**









## **Project Background**

- 2013 Corridor Study
  - Starting point for alternative development
    - Recommended a mix of 5-lane sections be carried forward to environmental process
  - Project team requested fresh look at alternatives
    - Traffic changes post-COVID, and after downtown Main Avenue reconstruction
  - Linear park concept on north side of Main Avenue not carried forward

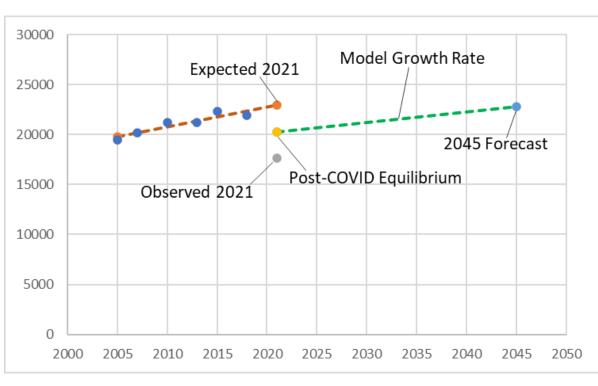


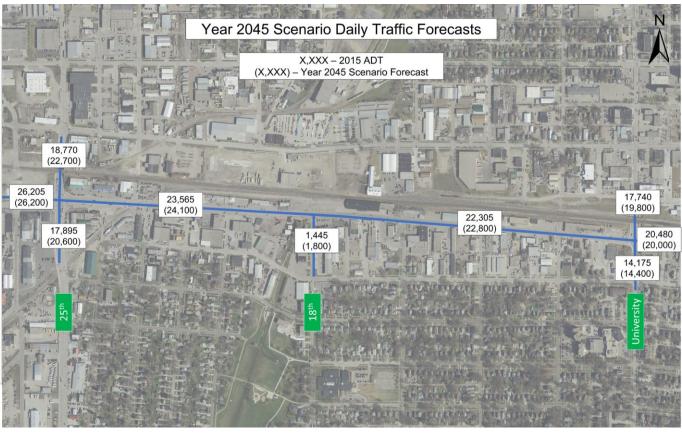






## **2045 Traffic Forecasts**

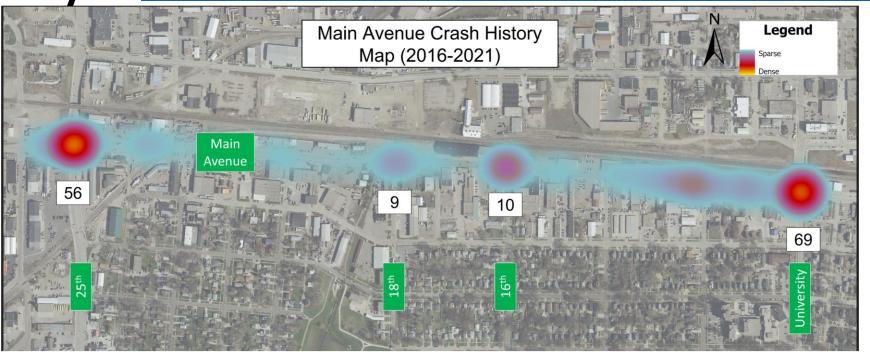








**Crash Analysis** 

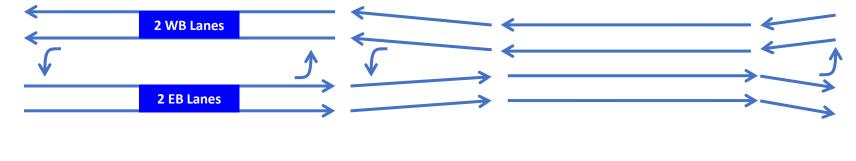


Intersection	Total Number of Crashes	Calculated Crash Rate (Million Entering Vehicles)	Average Crash Rate for Similar Intersections	Critical Crash Rate (Million Entering Vehicles)
Main Avenue & 25th Street	56	0.73	0.70	0.96
Main Avenue & University Drive	69	1.02	0.70	0.97
Main Avenue & University Drive Previous Configuration	45	1.34	0.70	0.97
Main Avenue & University Drive Current Configuration	24	0.71	0.70	0.97

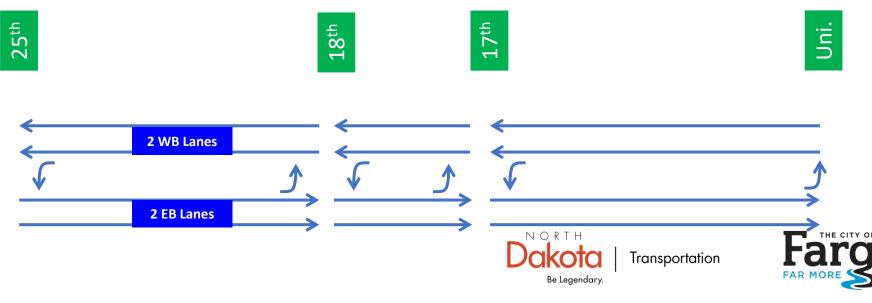
## **Initial Corridor Concepts**

- Corridor concepts developed
- Traffic operations analyzed with year 2045 forecasts

# **Existing Conditions**



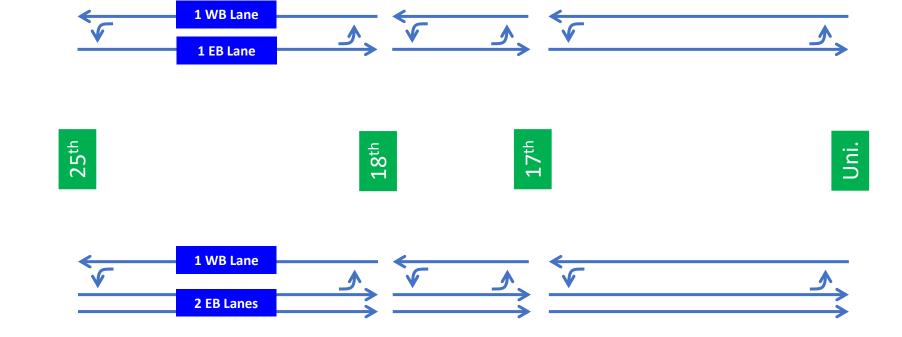
5-Lane



## **Initial Corridor Concepts**



4-Lane

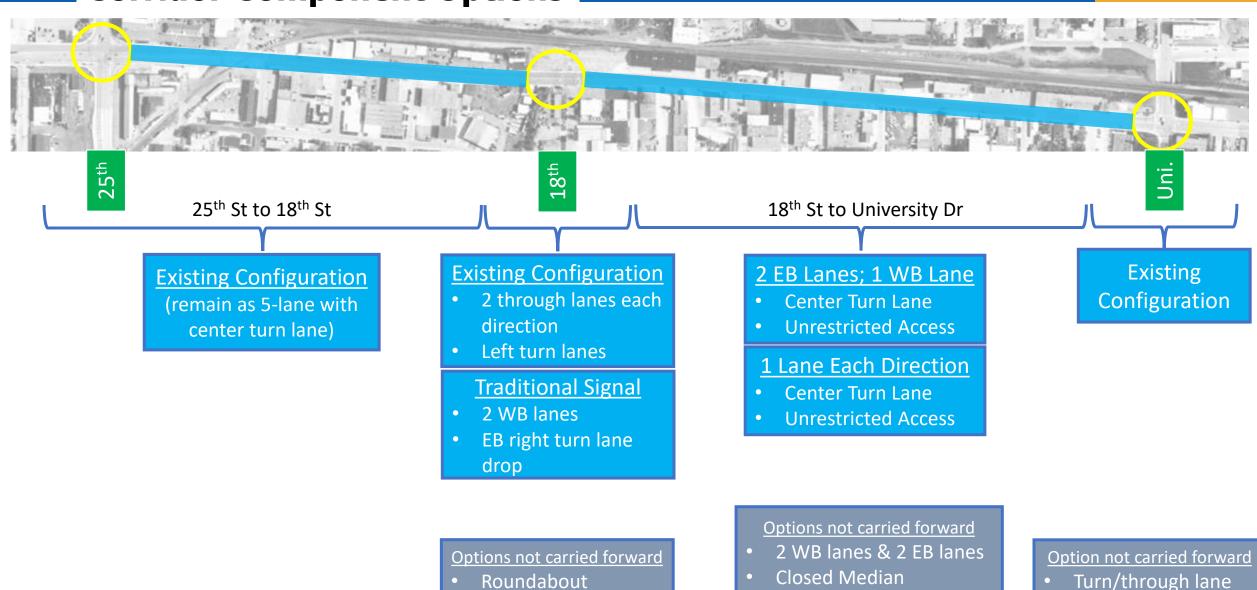


- No build and 5-lane concepts have acceptable operations and no congestion
- 3-lane and 4-lane concepts have poor operations, delays, and long queues





## **Corridor Component Options**



Signalized Green T

3/4 Access

reduction

## **Key Findings**

## **Traffic Analysis Findings**

- Current capacity is adequate for 2045 traffic
  - Expansion not warranted
- Reduced lanes 18th St University Dr and maintaining existing capacity
   25th St 18th St provides acceptable LOS
  - No traffic diversion expected
  - Some increased queue lengths





## **Key Findings**

#### Other Traffic Recommendations

- Crash history slightly higher than average but below critical
  - Does not represent immediate safety needs
  - Roadway designs should seek to improve safety
- High number of access points
  - Recommend reducing private access points
  - Improve spacing from adjacent intersections
- Corridor meets lighting warrants
  - Include lighting in project design







## **Alternative Design Criteria**

All Alternatives	5-lane section west of 18 <sup>th</sup> Street	
Provide:	ADA compliance & improved pedestrian environment	
	Over 7,950 ft of sidewalk replacement	
	Continuous center left-turn lane	
	WB Thru-Lane Drop west of University Drive	
	Access Management	

Design Element	Acceptable Standard
Lane Widths	11' width
Center Left-Turn	12' width
Sidewalk	Minimum 6' width
Boulevards	Minimum 4' width Stamped, colored concrete





## • Alternatives:

- Alt A: No Build
- Alt B: 5-Lane Not moving Forward
- Alt C1: 4-Lane
- Alt C2: 4-Lane w/ modified design criteria
- Alt D: 3-Lane

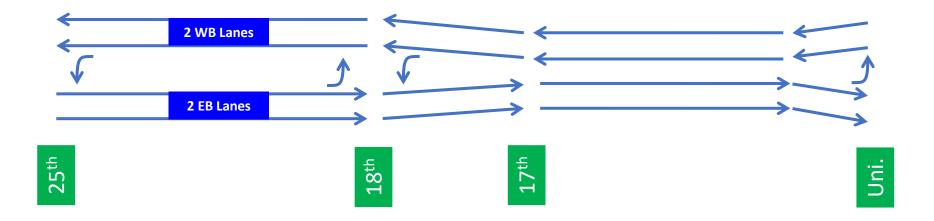
## Options:

- Option 1: Bike Facility Connections
- Option 2: 17th Street Raised Median
- Option 3A: WB Lane Drop at University Drive Reconstruction
- Option 3B: WB Lane Drop at University Drive Pavement Markings





- Alt A: No Build
  - Corridor remains same no improvements







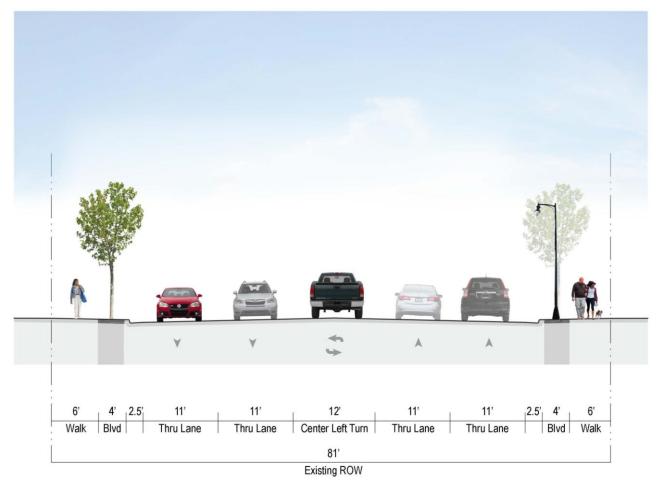
- 25<sup>th</sup> Street to 18<sup>th</sup> Street
  - 2 lanes EB & WB with center left turn lane
  - All Alternatives utilize this section
  - Improvements within existing right-of-way
    - ▶ 80′ 84′ Right of Way







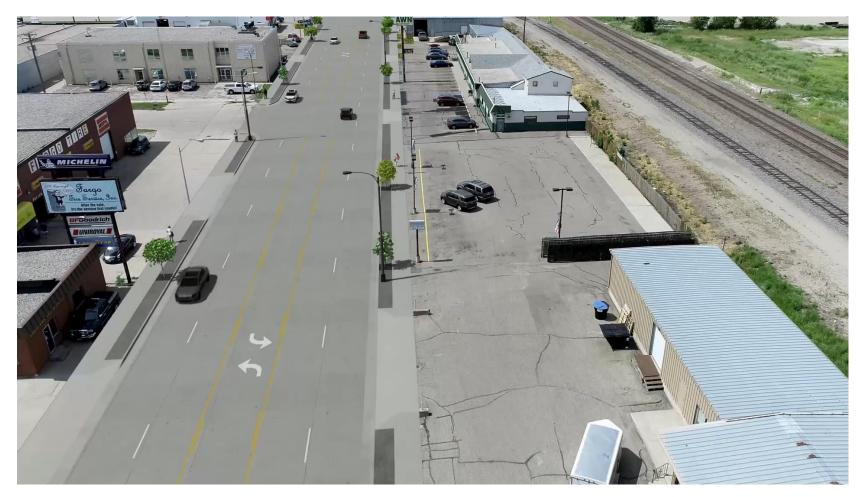
25<sup>th</sup> Street to 18<sup>th</sup> Street







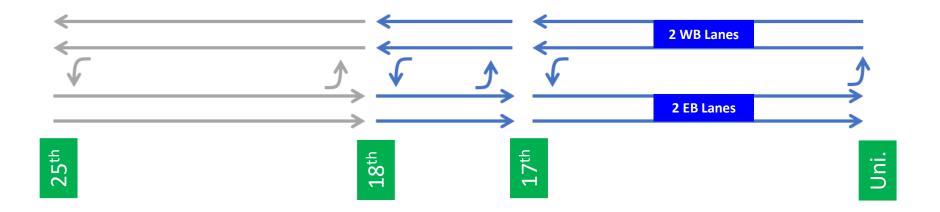
25<sup>th</sup> Street to 18<sup>th</sup> Street







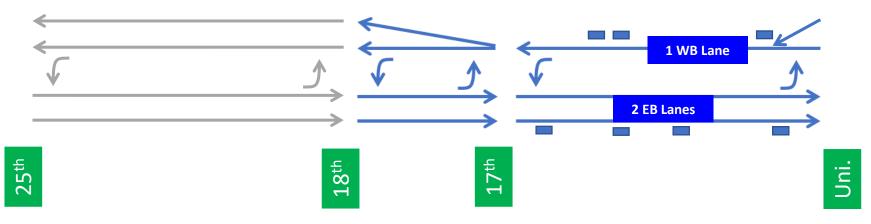
- Alt B: 5-Lane
  - 2 lanes EB & WB with center left turn lane
  - Alternative Considered but not moved Forward







- Alt C1: 4-Lane
  - 2 EB lanes, 1 WB lane, center left turn lane
  - Existing Right of Way: 60' (Typical)
  - Proposed Right of Way: 70'



Likely	Buildings	Parcels	Right of Way Needed
Impacts	7	23	22,027 SF





## Alt C1: 4-Lane







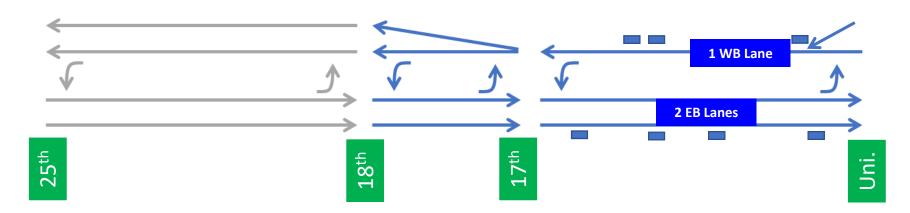
## Alt C1: 4-Lane







- Alt C2: 4-Lane w/ modified design criteria (no building impacts)
  - 2 EB lanes, 1 WB lane, center left turn lane
  - Existing Right of Way: 60' (Typical)
  - Proposed Right of Way: 68' Reduced at Building Front



Likely	Buildings	Parcels	Right of Way Needed
Impacts	0	22	17,246 SF





## **Alt C2 Modified Design Criteria**

Criteria	Acceptable Standard	
Lane Widths	11' width 10.5' width	
Center Left-Turn	12' width 11' width	
Sidewalk Adjacent to Buildings	500' of the 7,950' is reduced width (only 6% of all sidewalk) Lengths of reduction ranges from 30' – 141' along building face	
Sidewalk	Minimum 6' width Minimum 4' width at Buildings	
Boulevards	Minimum 4' width 2' width ( <i>One instance of 1.5'</i> ) at Buildings Stamped, colored concrete	





Alt C2: 4-Lane w/ modified design criteria (no building impacts)







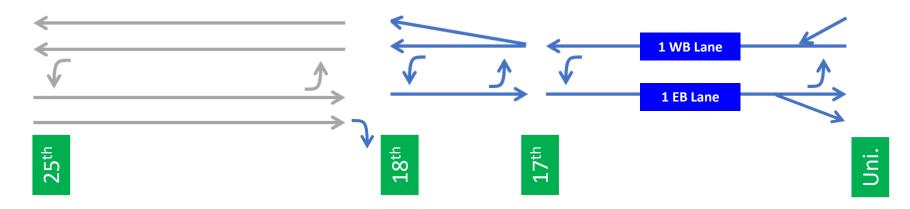
Alt C2: 4-Lane w/ modified design criteria (no building impacts)







- Alt D: 3-Lane
  - 1 EB & WB lane, center left turn lane
    - EB thru-lane drop at 18th Street intersection
    - Existing Right of Way: 60' (Typical)



Likely	Buildings	Parcels	Right of Way Needed
Impacts	0	1	312 SF





#### **Corridor Alternatives**

# Alt D: 3-Lane

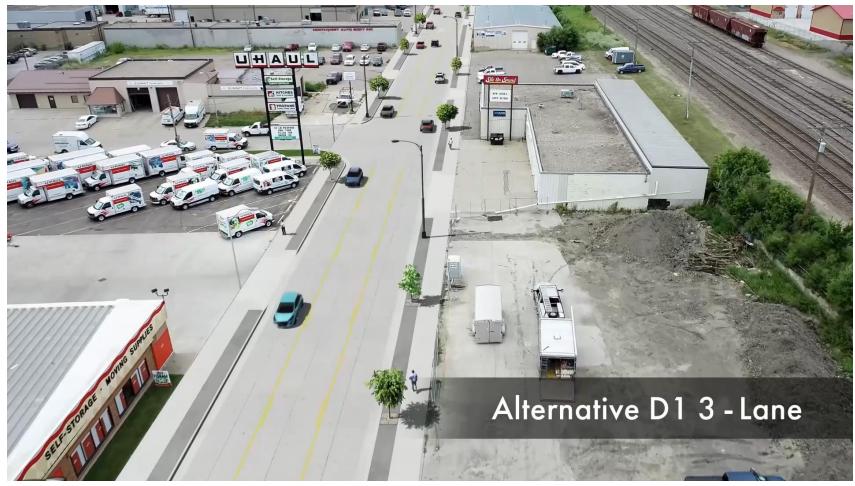






### **Corridor Alternatives**

Alt D: 3-Lane



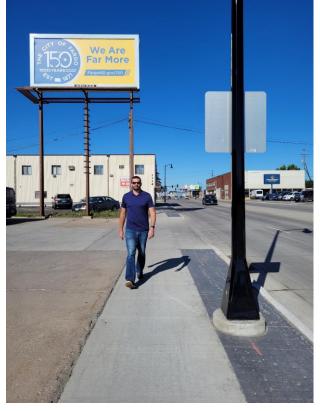




**Sidewalk/Boulevards** 









7.3' Spacing with 2' Blvd and Adjacent Structure

8.5' Spacing with 4' Blvd and Adjacent Structure

9' Spacing with 4' Blvd

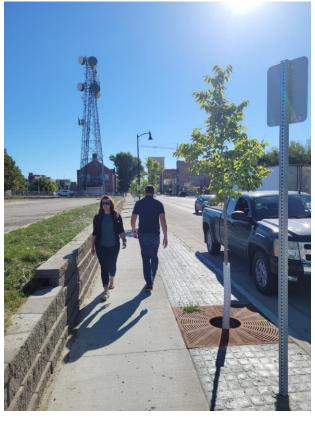
10' Spacing with 2' Blvd and Adjacent Structure

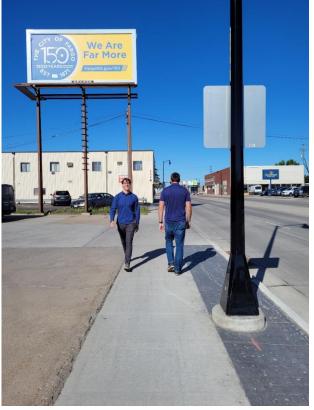




**Sidewalk/Boulevards** 









7.3' Spacing with 2' Blvd and Adjacent Structure

8.5' Spacing with 4' Blvd and Adjacent Structure

9' Spacing with 4' Blvd

10' Spacing with 2' Blvd and Adjacent Structure





#### **Streetscaping Opportunities**

- Tree plantings
  - Billboard Restriction Areas
    - 4' x 4' tree grates
    - 3' x 5' in constrained areas
- Planting beds
  - 8'-4" minimum boulevard width
- Parking Lot Separation
  - Raised curb
  - Decorative fencing









# **Alternative Comparison and Access Management**

# Likely Property Impacts

Alternative	Building Impacts	ROW Parcels	ROW SQ FT	BNSF Property
Alt C1 (4-Lane)	7	23	22,027 SF	3
Alt C2 (4-Lane w/ no bldg impacts)	0	22	17,246 SF	3
Alt D (3-Lane)	0	1	312 SF	0

# Access Management

Total Driveways	Confirmed Closures		Total Proposed Driveway Closures
80	21	8	29 (36% Reduction)





# **Corridor Options**

Option 2: 17th Street Raised Median







# **Corridor Options**

Option 3A: WB Lane Drop at University Drive - Reconstruction







# **Corridor Options**

Option 3B: WB Lane Drop at University Drive – Pavement Markings

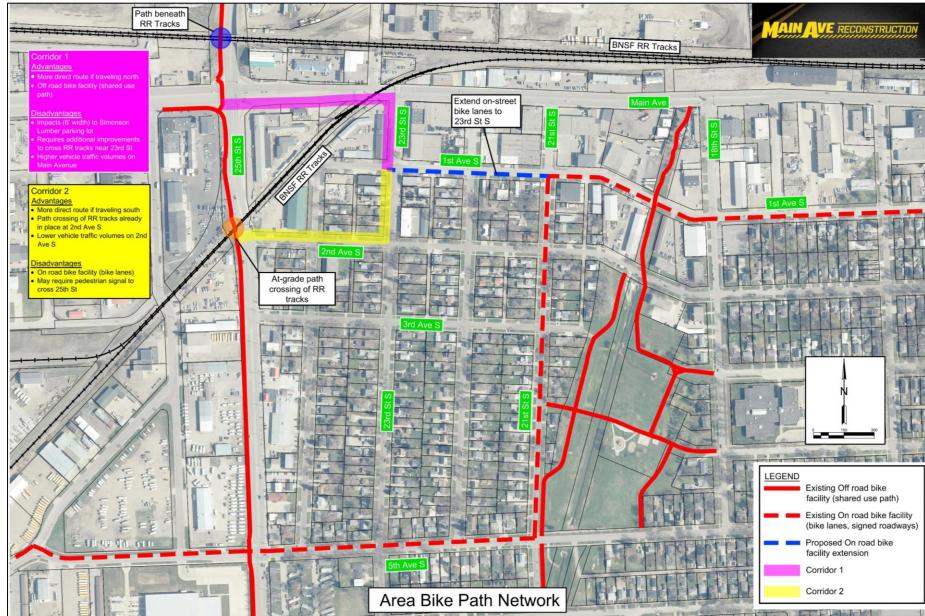








# **Bike Facility Connections**



# **Right of Way/BNSF Coordination**

- Narrow 60' Existing ROW east of 18<sup>th</sup> Street
- Encroachments
  - 39 identified mostly signs and awnings
- BNSF Coordination
  - RR spur crossing near 23<sup>rd</sup> Street
  - BNSF-owned properties on north side (4 total)







#### **Environmental**

- Cultural
  - No Historic Properties Affected
- Section 4(f)
  - Teamsters Park temporary occupancy
- Phase I Environmental Site Assessment
  - 65 Sites with Medium Potential for Contamination
  - 8 Sites with High Potential for Contamination
- Environmental Justice
  - Refer to exhibit display for more information





#### **Construction**

- Anticipated construction plan
  - 1 or 2 construction seasons still evaluating timeline
  - Detour thru traffic (few blocks at a time), maintain business access
    - Same as previous downtown Main Avenue reconstruction projects









# **Estimated Cost and Funding**

	Preliminary Construction & Engineering Costs	Preliminary Land Acquisition & Building Impact/Relocation Costs	Preliminary Total Anticipated Costs
Alternative C1: 4-Lane	\$29.7 M	\$10.5 - \$12.5 M	\$40.2 - \$42.2 M
Alternative C2: 4-Lane (no building impacts)	\$29.6 M	\$0.4 - \$1.2 M	\$30.0 - \$30.8 M
Alternative D: 3 Lane	\$29.2 M	\$0.1 - \$0.6 M	\$29.3 - \$29.8 M





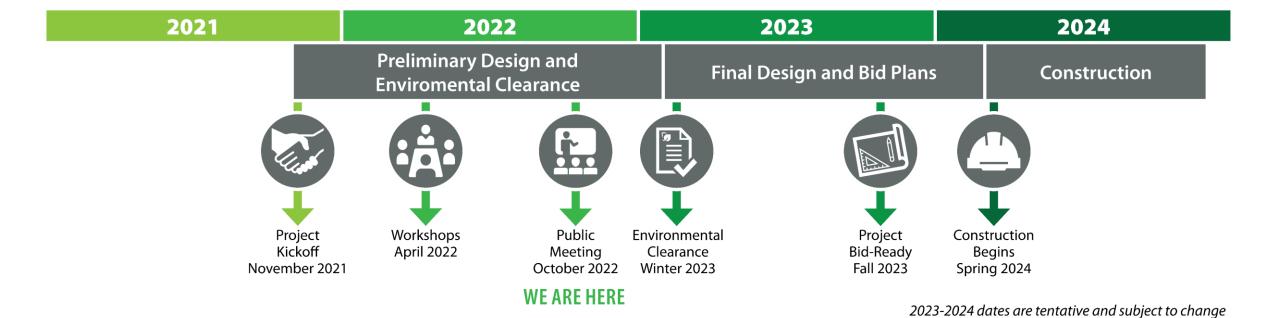
### **Estimated Cost and Funding**

- Funding: Combination of Federal, State, and City funds
  - Federal Share = \$17.6 \$27.3 M
  - State Share = \$2.0 \$3.1 M
  - City Share = \$9.8 \$11.0 M
    - Assessments
    - City Sales Tax Dollars





# **Next Steps**







# **We Want Your Input!**

- Email: <u>matt.kinsella@apexenggroup.com</u>
- Fill out Comment Forms leave here or mail in
- Live Polling after Q&A
- Survey Online or Written
- Interactive Comment Map
- Comments Due November 2<sup>nd</sup>







# How to join

# Web





- 1 Go to PollEv.com
- 2 Enter BRENTM300





# What is your primary mode of transportation on Main Avenue

Car/Truck/SUV

Walking/Bicycling

Freight/Delivery Truck







# How do you typically use Main Avenue?

Travel through without stopping

Access businesses/properties along the corrior

Access the neighborhood or area where you live







# What are your top concerns with the Main Avenue corridor? (select all that apply)

Vehicle traffic moves too slow

Vehicle traffic moves too fast

Safely arriving to and departing from businesses on the corridor

It isn't comfortable to walk or bike on Main Avenue

It is hard to cross Main Avenue as a pedestrian

There isn't enough streetscaping/landscaping

Other







# Which improvements are needed the most on Main Avenue? (select all that apply)

Separate left turn lane from 17th Street to University Drive

Wider sidewalks and boulevards

Additional streetscaping/lands caping

Intersection capacity/signal timing

Other







# Which alternative would you like selected?

Alternative A: No Build

Alternative C1: 5-lane to

4-lane

Alternative C2: 5-lane to 4-lane (no building impacts)

Alternative D: 5-lane to 3-lane

Other





