

Working Group Meeting #3

Joint Technical and Stakeholder Working Groups

February 24, 2021







Meeting Facilitation

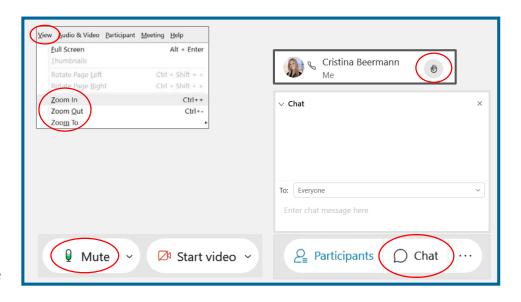
Ask Questions & Provide Comments

Webex Instructions

- Maintain mute
- Video
- Chat box
- Hand raise
- Zoom In/Out

Menti.com for feedback exercise

Breakout Group Prompts



Go to menti.com and use the code: 30 69 96 5



Welcome

Welcome

Who We Are

- The 'Partnership' management team:
 - Adams County:

Chris Chovan

Senior Transportation and Mobility Planner

City of Federal Heights:

Tim Williams

Community Development Director

City of Westminster:

Debra Baskett

Senior Transportation and Mobility Planner



Additional Project Team Members

Presenters and Breakout Group Facilitators

- Chris Primus, Consultant Team
- Tara Bettale, Consultant Team
- Keith Borsheim, Consultant Team
- Holly Buck, Consultant Team
- Kiernan Maletsky, Consultant Team
- Cristina Beermann, Consultant Team
- Charlie Dyrsten, Consultant Team
- Rocio Ramirez, Consultant Team
- Kira Olson, Consultant Team



Working Group Members Roll Call...

Thank you for joining us today! Please 'sign-in' by entering your name, organization (if applicable), and which Corridor Zone you would like to discuss in today's breakout group discussion in the Chat box on the bottom right of your screen.





Today's Meeting

Agenda

- Introductions and Meeting Purpose
- Other Corridors Before and After Improvements
- Draft Modal Visions and Potential Elements
- Cross Sections and Right-of-Way
 - Stakeholder feedback: breakout rooms
- Next steps
 - Digital survey
 - Public online meeting

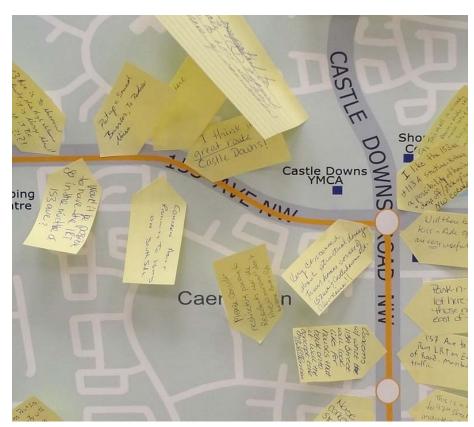




Meeting Purpose & Stakeholder Role

This Meeting Will

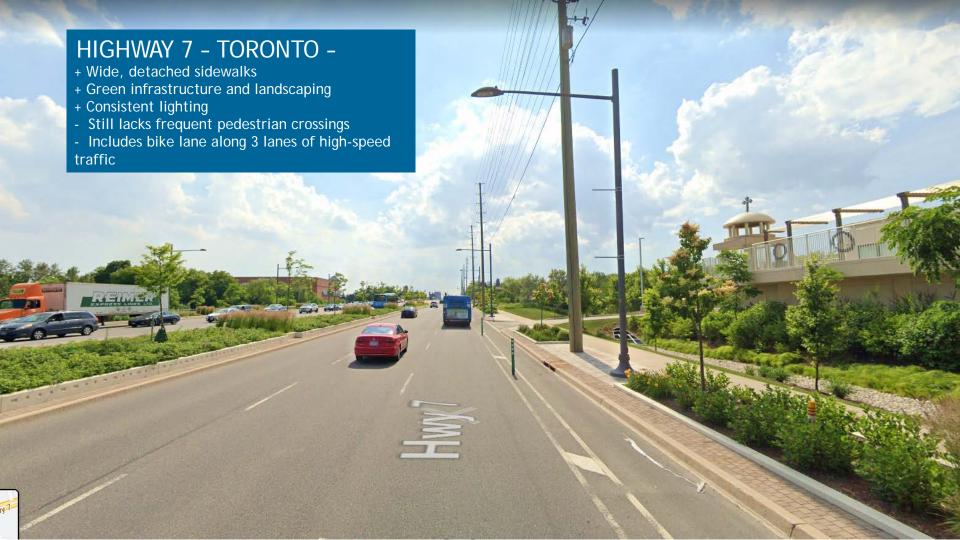
- Provide a project status update
- Share examples of similar corridor success stories
- Understand stakeholder feedback on cross sections and right-of-way
- Provide opportunity for input and questions



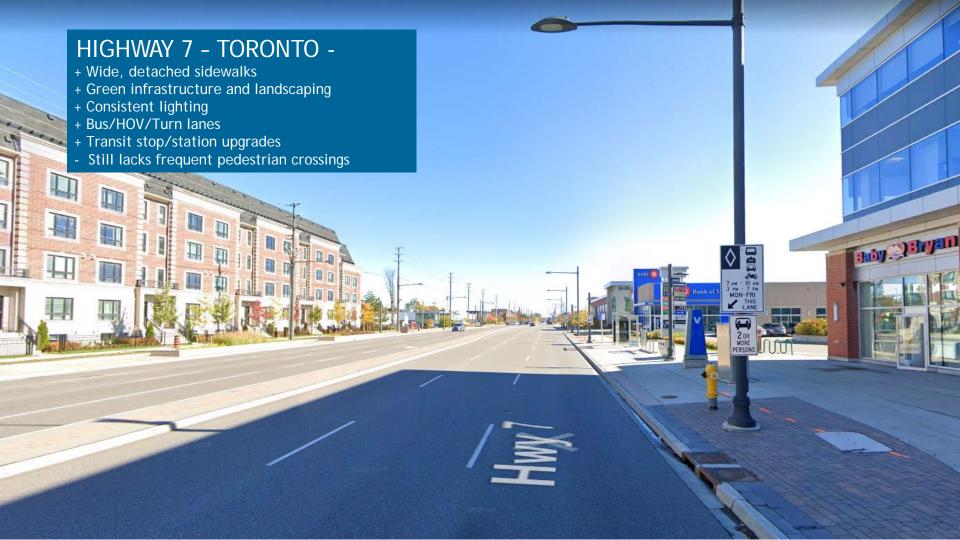


Similar Corridors





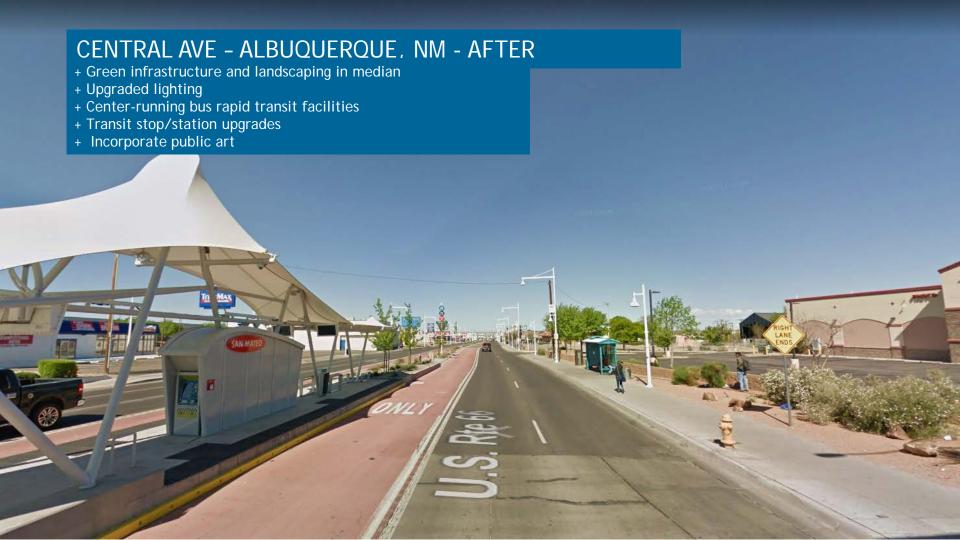














OTHER BUILT EXAMPLES



Business Access Transit Lane and tree lawn









Multi-use Sidewalk and Stormwater Treatments



Landscaping and Stormwater Treatments



Landscaping and Stormwater Treatments



Draft Mobility Needs & Goals

The Federal Boulevard Multimodal Transportation Study will...

- Focus on safe, equitable, consistent, and high-quality options
- Build on existing multimodal facilities (trails, rail, etc.)
- Identify attainable alternatives to driving alone
- Generate recommendations for walking, rolling, biking, transit, driving, and freight



Draft Modal Visions & Potential Elements

Reference Document

Review the reference document for details

- Background data and findings
- Potential element pros and cons
- Recommendations



Draft Multimodal Vision Pedestrians

I. What are the existing conditions on Federal Boulevard?

- Average of one crush per month involving a pedestriae, most of which result is serious injury on lability
 16 pedestrias deaths recorded from 2013 to 3017
- Significant portions of the corridor do not have sidewalls
 Long distances between signalized crossings that require out of direction travel and can lead to unsafe

. What was communicated by stakeholders?

- Concern over the lick of sale and occupancy peterstain facilities
 Concern over crash, salesy, and scienalis issues.
- Concise over crass, sales, and somewhat sales.
 Concise of Confidence over control disease three lesses as primary concises.
 Dears for continuous pidensills that provide playeral haven'ne reconstituted traffic.
 Nead for sale podertime consignificativement as multiple interactions.
 Nead for reasonal maintenance along cointeier to ensure ADA accessibility pair nevent.
 Tability appears were reduced when some remember along sciences and not occur consistently.

. Advacuts for greater connectivity to provide access to destinations for people walking or rolling

- Encourage addressing missing, narrow, obstructed sidewalk segments along correlor
 Encourage offerts to provide reliable, conflorable, and accessible sidewalk network
- Identify potential and block crossings locations where distances exceed half a mile between signalized crossings or in areas that have high numbers of unsafe crossings

. What are the objectives for pedestrian facilities along Federal? 4. Why should pedestrian facilities be improved?

- identify potential median reluge island locations in between signalized crossings where there are more than

- abreichten)
- Improves accessibility to other model options
 Potential health benefits . Reduces emissions/solution
- Encourages walking instead of driving
 Provides greater connectator to train-hataral environment.
- . Desures a comfortable and sale pedesoran experience, everyone is a pedestrian at some point in their



FEDERAL BOULEVARD MULTIMODAL TRANSPORTATION STUDY

Draft Multimodal Vision Pedestrians

Potential Elements	Pros	Cons		Recommendations
Attached Sidewalk - 8' wide	Can Mil calcing gaps in scientals network most cost efficiently Merca Americans with Disabilities Aus (ADA) engain ensures Would provide space for transit boarding.	Could have potential Right-of-way (ROW) impacts Less sale than discarded sidewalls. Less confortable than detailed sidewalls. Don not provide adequate space for landscaping elements.	15	Not reconstrated, unless 5,00% acquisition or drainage toxics are prohibitive
Detached Sidewalk – 4" wide	Similar activatages as attached odevialits. Provides higher depries of consists for pedestrians, providing a buffer from monorand traffic. Frondes spore for handcaping and lighting element outside the policetrian perferoly.	Could have ROW ampacts Could patientially have higher exists	55	Not recommended, unless 8/OW impacts limit implementation and 87 detached multi-use path cannot be constructed.
Detached Multi-use Path = 18' wide	Similar advantages as detached if sidewalko Frendes higher digree of condon for predestriams frendes spece for bicyclists to share for short life; and access to destinations	Could have ROW impacts Could patentially have higher scots	55	Recommended corridor wide
Enhanced Safety for all Users at Intersections – various treatments	Creates safety improvements where must strained outside. Provides greater access to trainit.	Prioritizes people walking, maling, billing over vehicular mobility	•	Recommended (arrider wide (where needed)
Safer Pedestrian Crossings: Signals, Rectangular Rapid Rashing Bencons (RAPB) 8 High Intensity Activated Crusswalks (HAWKs)	Frovido salety ingrovements is area where small crossing activity occurs Frovido greater access or brasil bourding locations, which may be located mid-block rather than at retresentant. Can ministra excerticed while didgs by only integring traffic when activated by pediatrical.	Prioritians pedesirum safety; exceptud reflicts may have excepted travel time	1	Recommended corridor-wide (where needed)



Pedestrians

Existing Conditions and Stakeholder Input

- Many pedestrian crashes
- Difficult to cross
- Important issue for most stakeholders

- Greater connectivity
- Encourage addressing sidewalk concerns
- Improve safety for pedestrians

Pedestrians



Attached Sidewalk - 8' wide



Detached Multi-use Path - 10' wide



Detached Sidewalk - 8' wide



Enhanced Safety for all Users at Intersections - various treatments







Key



Not Recommended

Safer Pedestrian Crossings: Signals, Rectangular Rapid Flashing Beacons (RRFBs) & High Intensity Activated Crosswalks (HAWKs)

Transit

Existing Conditions and Stakeholder Input

- Slower bus speeds due to congestion
- Record ridership
- Advocate for quality transit amenities
- Improve service

- Lack of multimodal connections to bus stops
- Safer access to bus stops and shelters
- More frequent service
- Prepare for ridership growth
- Opportunity for development, redevelopment, and land preservation



Transit



Semi-exclusive dedicated bus lanes (lanes that are
reserved for buses and right turning vehicles)

Federal - 50th	Clear Creek - Federal Station - Gate B	Westminster Station	Federal - 72nd	Federal - 104th	Front Range Community College	106th & Melody Gate C
510A	515A	522A	-	175	#1	3.53
540A	545A	(+)	551A	601A	H-1	606A
610A	615.A	622A	540	1940	42	123
621A	626A	633A	-	-	-	
631A	636A	643A	5.85	-	-	595
641A	646A	-	652A	703A	708A	
651A	656A	703A		(4)	12	
701A	706A	713A	19	-	3	1-1
711A	716A	723A			75	\simeq
721A	726A	733A	0.40	-	90	

Service Enhancements - more frequent service (every 10 minutes), Timed Transfers to other routes and increased hours of service



Transit bypass lanes (dedicated lanes for bus approaches to intersections) at key locations, coupled with transit signal priority 'queue jumps'



Stop/Station Enhancements - ADA accessible bus shelters, relocated bus stops, sidewalk connections, multilingual information











Bicycles

Existing Conditions and Stakeholder Input

- Minimal on-street bike infrastructure
- Not a designated bike corridor
- Encourage development of complete bike network
- Advocate for underpasses for all ages and abilities

- Concern over air quality
- More bike connections to neighborhoods
- Reduce emissions/pollution
- Addresses congestion management



Bicycles



Expanded connections to adjacent side paths



Dedicated Bike Lane along Lowell Boulevard



Dedicated Bike Lane along Federal Boulevard







Recommended Not corridor-wide Recommended



Trails

Existing Conditions and Stakeholder Input

- Five regional trails
- Address missing greenway trail and infrastructure
- Encourage accessible connections
- Greater connectivity to exisiting trails

- Option for commuters
- Provide a connection to Camenisch Park
- Enhance connection to natural reosurces



Trails







Expanded connections to existing regional trails



Connections to other modal options

Key







FEDERAL BOULEVARD
MULTIMODAL TRANSPORTATION STUDY

Screetscapes

Existing Conditions and Stakeholder Input

- Lack of unifying streetscape elements
- No sidewalk uniformity
- Prioritize wayfinding to key destinations
- Reduce urban heat island effect

- Aesthetic consistency
- Tree canopy
- Enhances traffic calming
- Greater user comfort



Screetscapes



Street Lighting and Pedestrian Amenities



Green drainage elements



Brick or hardscape median



Public Art/Gateway Elements



Improved Signage - Inventory and reassessment









Auto Safety and Operations

Existing Conditions and Stakeholder Input

- Inadequate sight distance
- Non-compliant signals equipment
- Insufficent ADA facilitieis
- Improve traffic operations along the corridor
- Meet Vision Zero goals

- Manage congestion
- Vehicle speed
- Improve travel time
- Improve safety
- Reduce congestion



Auto Safety and Operations



Update signal equipment - Signal Rebuilds



Raised medians



Improved left turn treatments



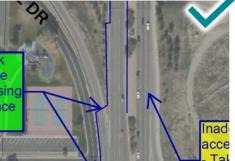
ADA compliant design



Interchange improvements



Consistent corridor speed limits and signal progression based on lower target speeds



corridor-wide

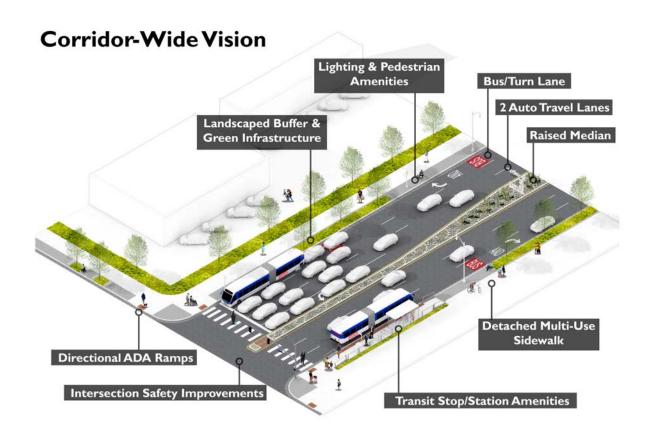
Key

Recommended



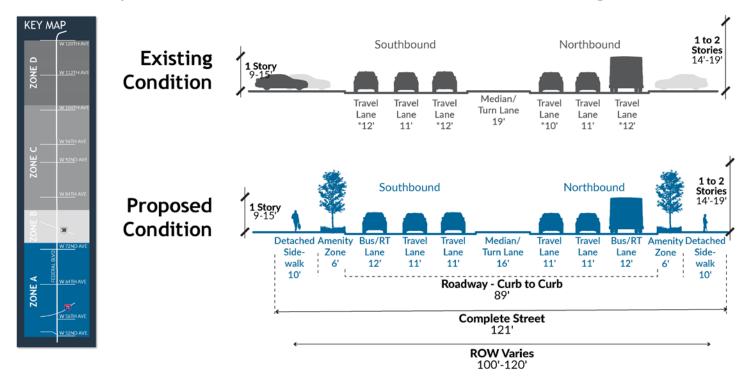
Cross Sections & Right-of-Way

Cross Section



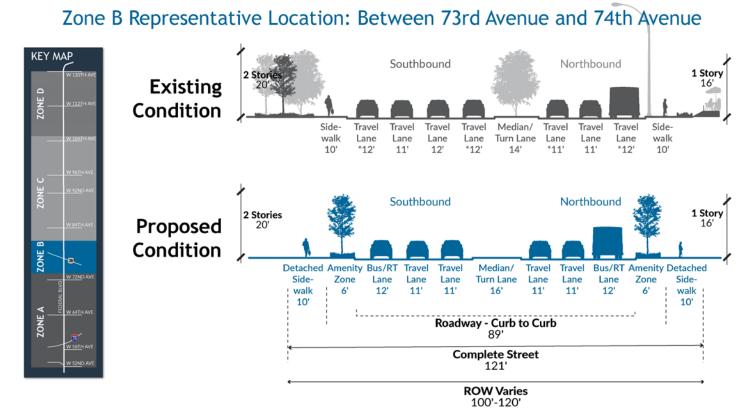
Zone A

Zone A Representative Location: Between 65th Avenue and Longfellow Place



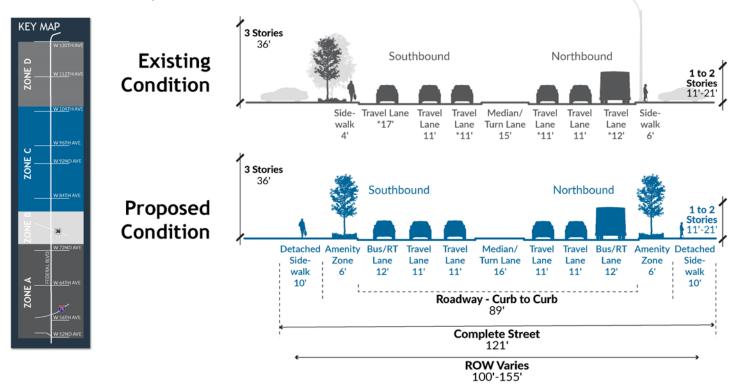


Zone B



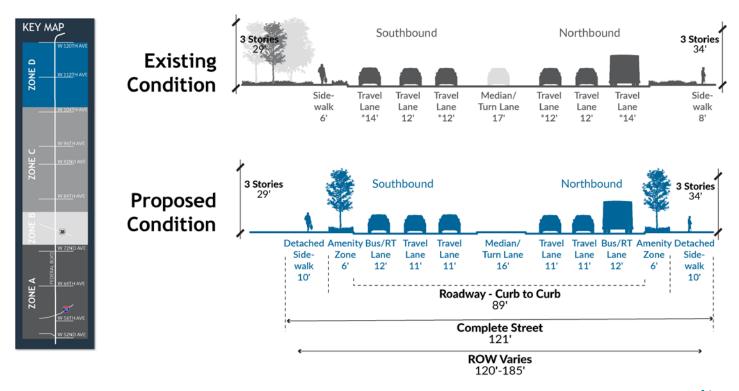
Zone C

Zone C Representative Location: Between 91st Avenue and 91st Place



Zone D

Zone D Representative Location: Between 107th Avenue and 108th Avenue



Key Takeaways

Right-of-Way (ROW) and Other Impacts

- Most parcels are affected for typically minor ROW acquisitions
 - Varies along corridor
 - Most ROW needs impact parking to some extent
 - Few structures are impacted
- Modifications to interchanges and bridges will be needed



Stakeholder Feedback -Menti

Go to menti.com and use the code: 30 69 96 5

Breakout Groups

Breakout Group Instructions

Instructions

- Discussion (25 min.)
 - React to Menti results
 - Discuss your thoughts on crosssection and right-of-way impacts
- Report back





Stakeholder Breakout Groups

We'd like your input

- Introductions
 - 1. Were the Menti results surprising to you? Why or why not?
- Review corridor impacts by zone
- Discussion
 - 1. Are the type and nature of impacts acceptable to achieve a *multimodal complete street* cross-section?
 - 2. Do you feel that the transit improvements shown in the cross section would help meet the transit goals for the corridor?
 - 3. What technical data do you need to support this cross section?
 - 4. Do you have any additional questions/comments?



Report Back

Next Steps

Upcoming

- Digital Survey
- Online public meeting





Thank You!

