

# Terwillegar Drive Expansion Construction Update

# Welcome!

Public Information Session  
April 2025

Edmonton

# Terwillegar Drive Expansion: Overview

- + Terwillegar Drive is a key north–south route in southwest Edmonton and an important link to 170 Street, which will become a future connection to Highway 19.
- + Due to significant growth in southwest Edmonton, this vital corridor exceeded its capacity causing congestion, delays, increased collisions, as well as the reduction in speed and reliability of transit services.
- + The corridor also poorly accommodates active transportation, such as walking and cycling.
- + To accommodate current and future needs, the City is constructing an integrated expansion plan for Terwillegar Drive.



Learn more by going to: [edmonton.ca/terwillegardrive](https://edmonton.ca/terwillegardrive)

# Terwillegar Drive Expansion: Program Purpose

- Major city-building initiative.
- Build out of roadway, transit and active transportation (walk, bike, roll) to safely and efficiently accommodate future needs.
- Help achieve the outcomes of the City Plan to accommodate a population of 2 million.
- Alleviate congestion.
- Improve access and connectivity for pedestrians and cyclists.
- Accommodate all users safely and efficiently.



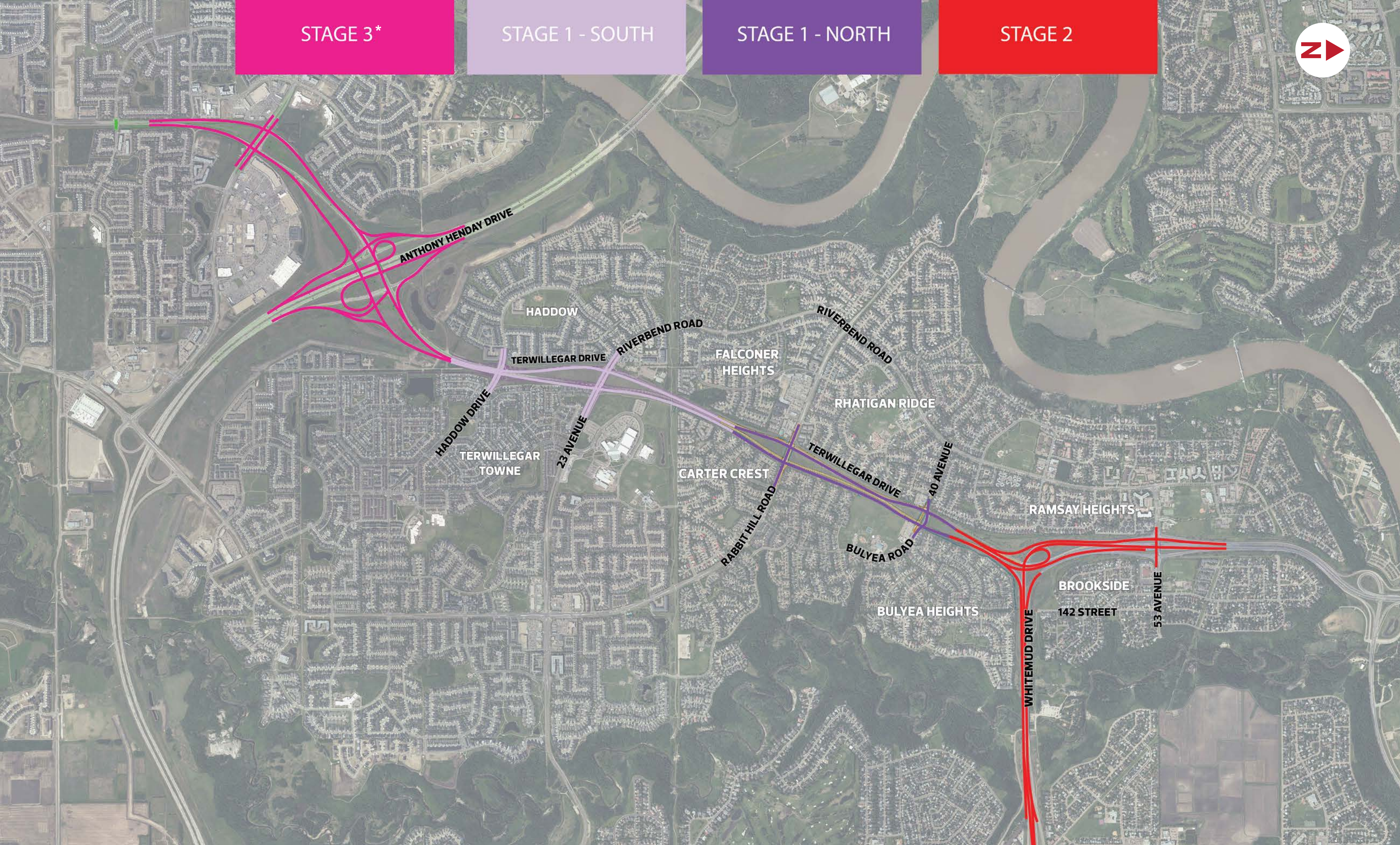
Learn more by going to: [edmonton.ca/terwillegardrive](https://edmonton.ca/terwillegardrive)

STAGE 3\*

STAGE 1 - SOUTH

STAGE 1 - NORTH

STAGE 2



# Program Stages

\* Final design to be determined

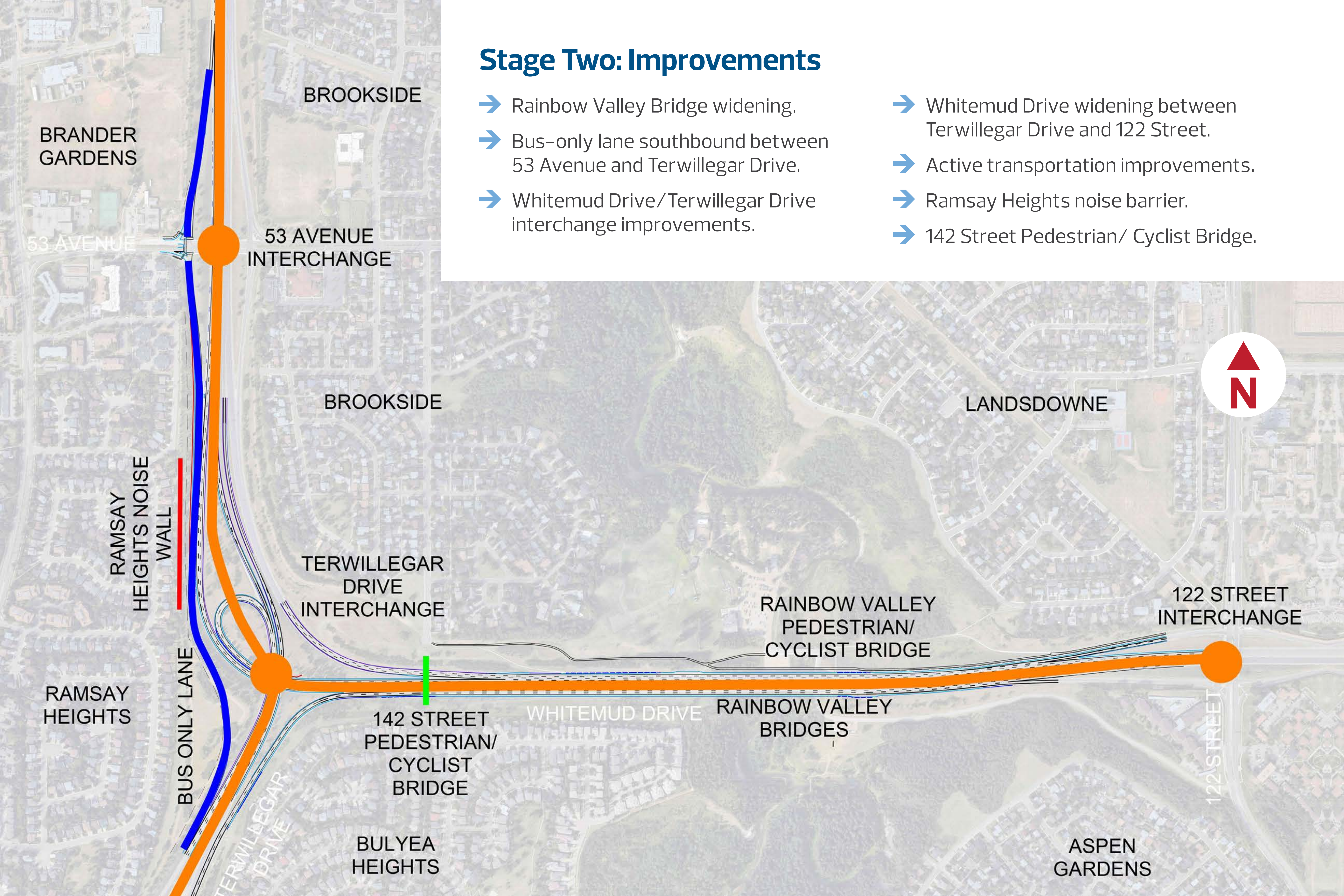
# Terwillegar Drive Expansion Stage Two:

## Whitemud Drive and Interchange Upgrades



## Stage Two: Improvements

- ➔ Rainbow Valley Bridge widening.
- ➔ Bus-only lane southbound between 53 Avenue and Terwillegar Drive.
- ➔ Whitemud Drive/Terwillegar Drive interchange improvements.
- ➔ Whitemud Drive widening between Terwillegar Drive and 122 Street.
- ➔ Active transportation improvements.
- ➔ Ramsay Heights noise barrier.
- ➔ 142 Street Pedestrian/ Cyclist Bridge.



# Stage Two: Construction Progress

## 2023 – 2024:

- Construction ongoing for Rainbow Valley Bridge widenings and pedestrian/cyclist bridge.
- Terwillegar Drive Interchange upgrades.
- Shared pathway realignment adjacent to Snow Valley.
- Replacement of the 122 Street ramp.
- Bus-only lane earthworks and retaining wall construction.
- Ramsay Heights noise barrier.
- Extension of the south Rainbow Valley parking lot.

- Tree removal and preservation.
- 142 Street pedestrian/ cyclist bridge construction.
- Westbound Whitemud Drive widening and renewal.



Learn more by going to: [edmonton.ca/terwillegardrive](https://edmonton.ca/terwillegardrive)

# Stage Two: Construction Timelines

## 2025:

- Rainbow Valley Bridge westbound rehabilitation and widening.
- Rainbow Valley Bridge pedestrian/cyclist bridge construction.
- Rainbow Valley Bridge eastbound selective demolition, rehabilitation, and widening.
- 142 Street Pedestrian/Cyclist Bridge construction.
- Eastbound Whitemud Drive widening and renewal.
- Bus-only lane retaining wall and roadway construction.
- Ramsay Heights noise barrier completion.

## 2026:

- Rainbow Valley Bridge eastbound rehabilitation and widening.
- Eastbound Whitemud Drive Widening and renewal.
- Sign structures, paving, road barrier construction and final landscaping.



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# Construction Plans

## Vehicle Traffic

- Construction and traffic impacts began in May 2023.
- Roadworks will require staged shoulder and lane closures along the Whitemud Drive and Terwillegar Drive corridors.
- Access to Snow Valley and the Rainbow Valley Campground will be maintained.
- Traffic will be monitored, and adjustments will be implemented where possible to improve traffic flow through the project area.

## Pedestrian and Cyclist Traffic

- Pedestrian and cyclist pathway connectivity will be maintained throughout the project.
  - Active modes users are being detoured through the Whitemud Creek ravine temporarily while the new shared-use path bridge is being constructed.
- The current pedestrian sidewalk on the Westbound Rainbow Valley Bridge has been closed and will be replaced by the new Rainbow Valley shared-use path bridge.
- The 142 Street Pedestrian/ Cyclist bridge will cross Whitemud Drive and provide a connection between Brookside and Brookview at 142 Street.



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# Overall Traffic Impacts

- On Whitemud Drive, two lanes will remain open in each direction during peak hours. There will be impacts to traffic flow during off peak hours as necessary.
- The westbound Rainbow Valley Bridge was closed in Winter 2024. Traffic was moved onto the eastbound Rainbow Valley Bridge.
- In 2025, eastbound Rainbow Valley Bridge will close. Two-way traffic will be on westbound Rainbow Valley Bridge.



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# Rainbow Valley Bridge Rehabilitation and Widening

- The bridges, constructed in 1979 and 1982, are due for their first major rehabilitation.
- The bridges will be widened to four lanes plus shoulders.
- Sidewalk will be removed and new pedestrian bridge constructed.
- Whitemud Creek Ravine South parking lot has been expanded.
- Construction site compounds are located in Rainbow Valley.



Learn more by going to: [edmonton.ca/terwillegardrive](https://edmonton.ca/terwillegardrive)

# 2025 South Rainbow Valley Bridge Closure

**WESTBOUND TRAFFIC:**  
After the bridge, drivers will move back to the usual westbound lanes.

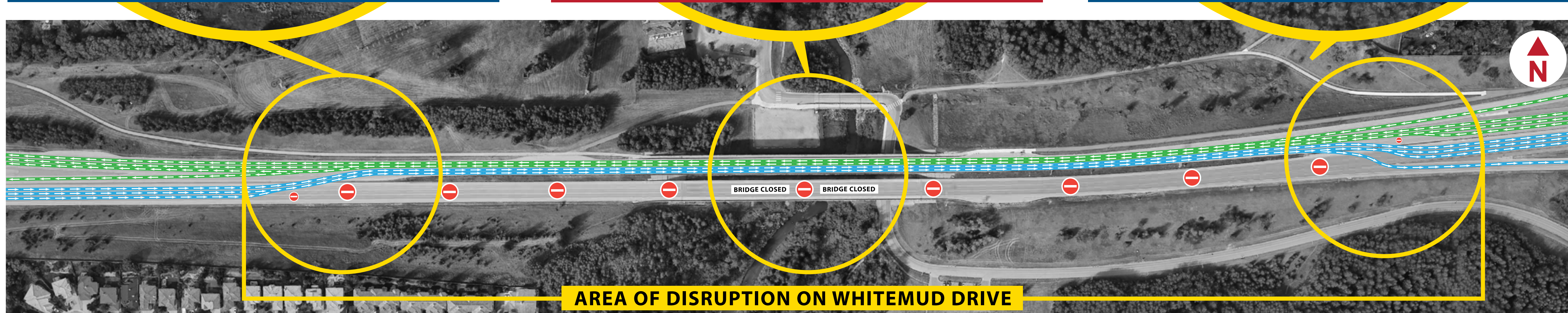
**EASTBOUND TRAFFIC:**  
Before the bridge, people driving eastbound will be detoured onto lanes on the north bridge.

**ALL TRAFFIC:**  
Two lanes westbound and two lanes eastbound will be maintained during morning and afternoon peak hours. Watch for signage.

**SOUTH BRIDGE CLOSED**

**WESTBOUND TRAFFIC:**  
Before the bridge, there will be temporary lane closures to accommodate oncoming eastbound traffic.

**EASTBOUND TRAFFIC:**  
After the construction zone, traffic lanes return to normal.



**LEGEND**

- WESTBOUND TRAFFIC
- EASTBOUND TRAFFIC

**Two lanes will be maintained in each direction during peak hours.**  
In off-peak hours, various lane closure changes may occur. Please drive with caution, and follow all speed limit changes, signs and the instructions of construction personnel.



Learn more by going to: [edmonton.ca/terwillegardrive](https://edmonton.ca/terwillegardrive)

# Active Transportation: Rainbow Valley Pedestrian/Cyclist Bridge

→ Active modes users will be moved away from live traffic.



Learn more by going to: [edmonton.ca/terwillegardrive](https://edmonton.ca/terwillegardrive)

# Active Transportation: 142 Street Pedestrian/Cyclist Bridge

- New pedestrian/cyclist bridge over Whitemud Drive near 142 Street, open space enhancements (construction started in 2024).
- For more information on this project's public engagement, scan the code for a copy of the What We Heard report:



Learn more by going to: [edmonton.ca/terwillegardrive](https://edmonton.ca/terwillegardrive)

# Active Transportation Upgrades: Shared Pathway

→ Upgrades to the existing shared pathway between 122 Street and 142 Street.

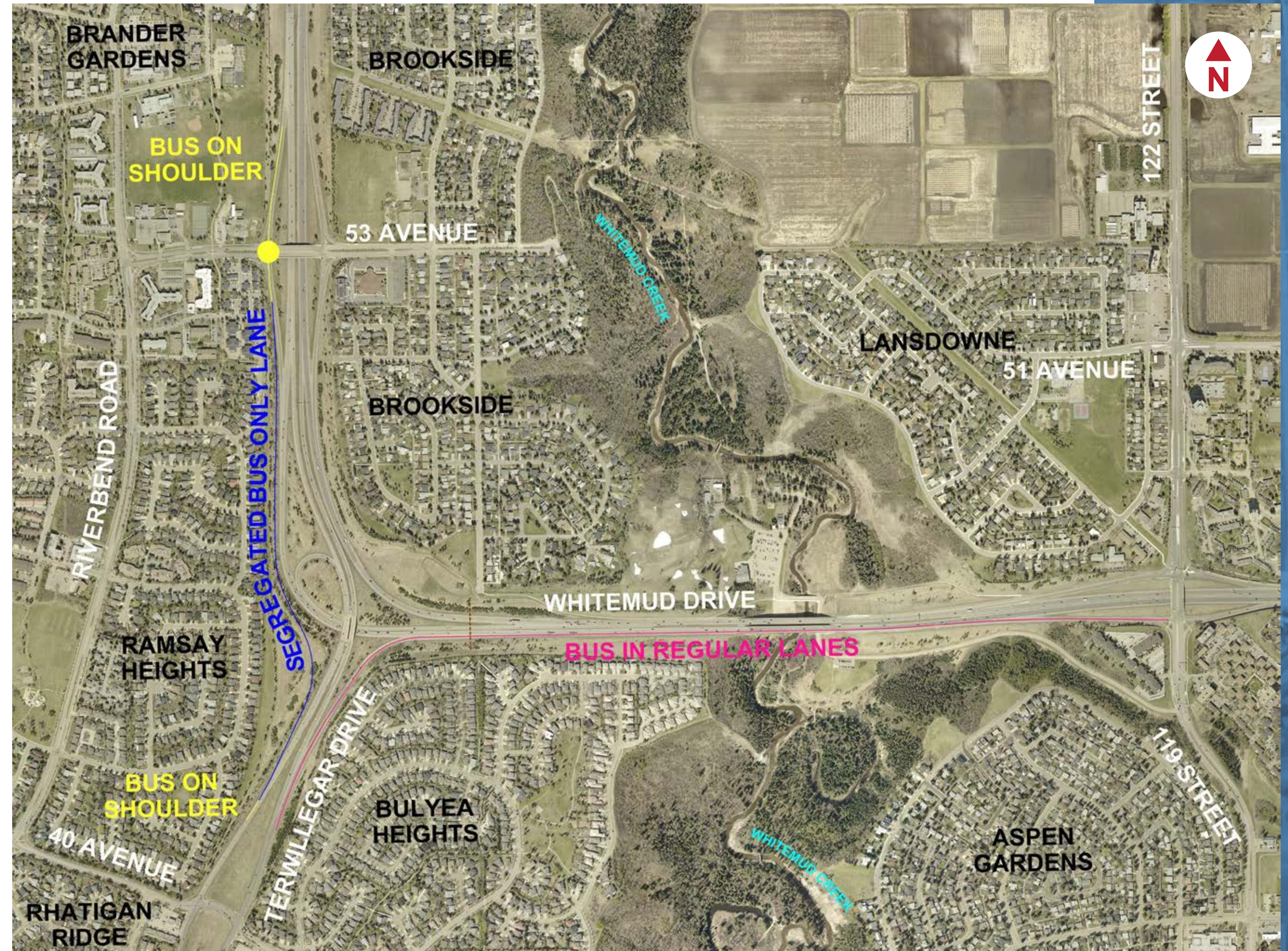
- Construction of a shared pathway started in 2023 with the path reconstructed near 122 Street. The remainder of the path will be constructed in 2025.
- A fence or similar barrier between Whitemud Drive and the shared pathway will be constructed for the safety of cyclists and pedestrians.



Learn more by going to: [edmonton.ca/terwillegardrive](https://edmonton.ca/terwillegardrive)

# Transit Upgrades: Bus-Only Lane

- Retaining wall construction is complete.
- Segregated bus-only lane from 53 Avenue to Terwillegar Drive in 2025.
- Bus-only signals at 53 Avenue west ramp intersection.

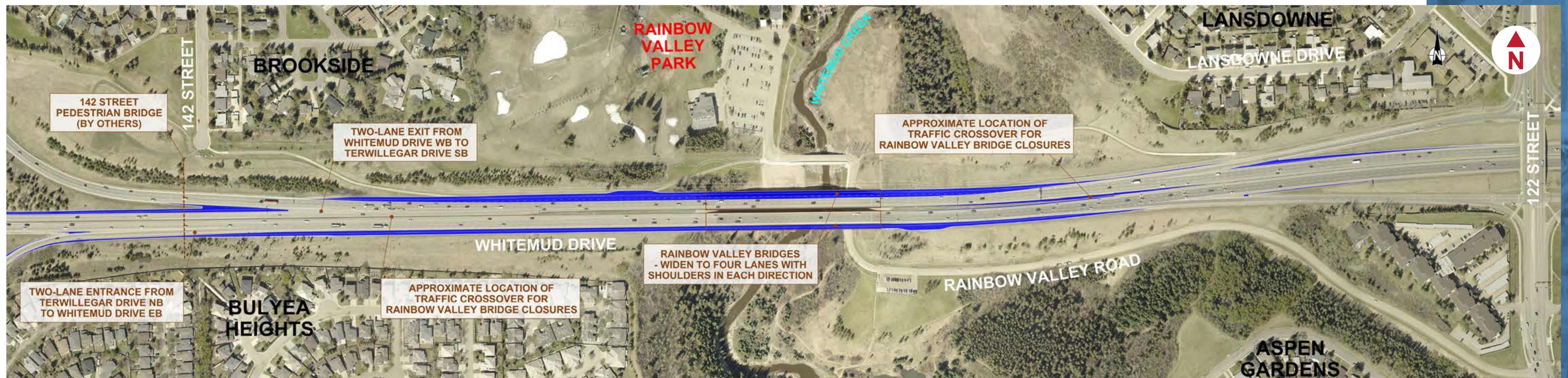


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# Whitemud Drive Widening and Upgrades

- Whitemud Drive will be widened to four lanes in each direction between Terwillegar Drive and 122 Street.
- Widening of mainline Whitemud Drive will take place on the westbound lanes in 2024/2025 and the eastbound lanes in 2025/2026.
- Widening and realignment of the 122 Street on-ramp was completed in August 2023.

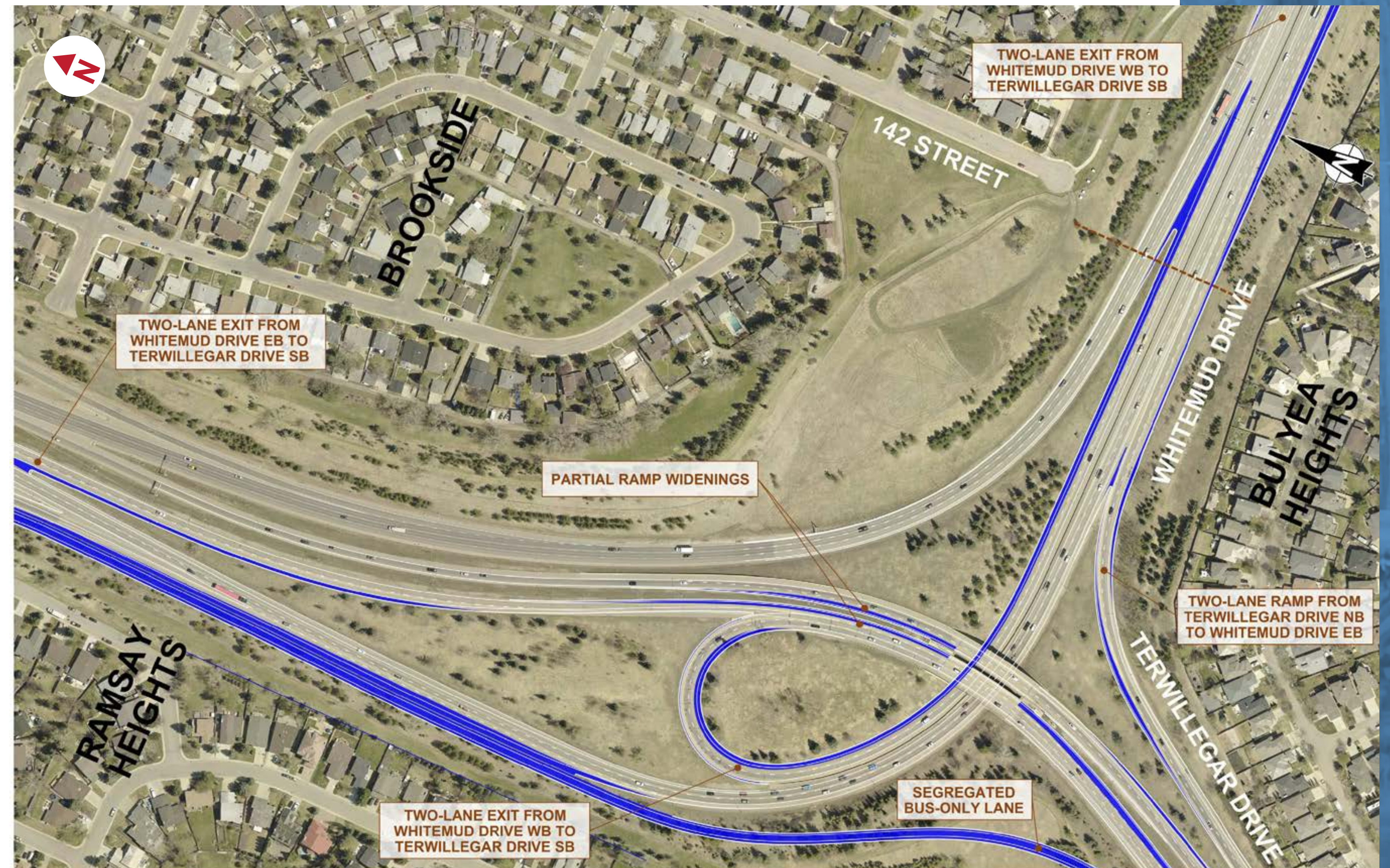


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# Whitemud Drive/Terwillegar Drive Interchange

Construction includes:

- ➔ Widening the westbound Whitemud Drive to southbound Terwillegar Drive loop ramp complete in 2024.
- ➔ Widening the northbound Terwillegar Drive to eastbound Whitemud Drive ramp is complete, with two retaining walls complete as well. Final paving is underway.
- ➔ Partial ramp widening: northbound Terwillegar Drive to northbound Whitemud Drive, and southbound Whitemud Drive to southbound Terwillegar Drive is complete. Final paving and barrier work is underway.



Learn more by going to: [edmonton.ca/terwillegardrive](https://edmonton.ca/terwillegardrive)

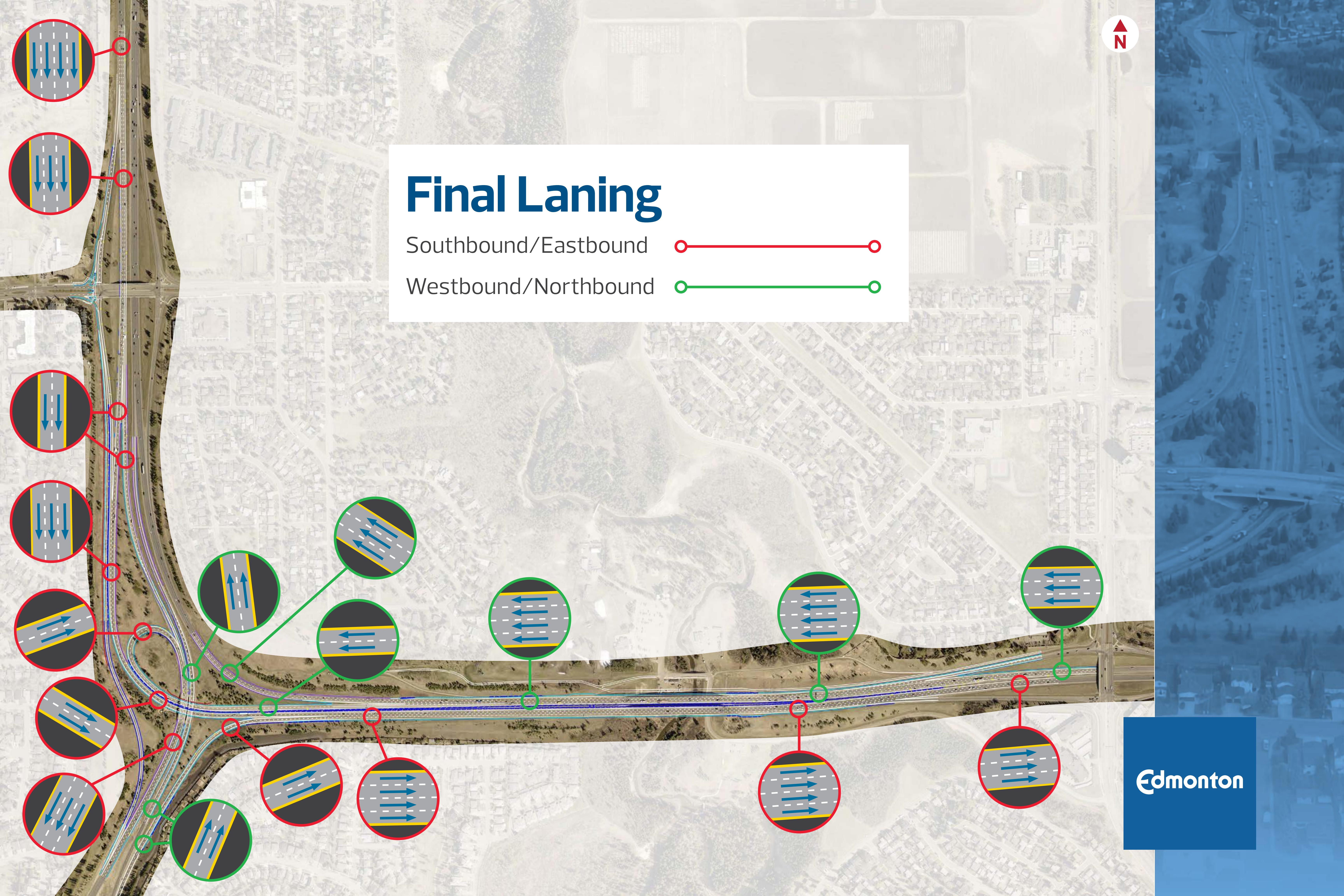


# Final Laning

Southbound/Eastbound



Westbound/Northbound



# Retaining Walls

Five retaining walls are needed for roadway widenings and the bus only lane:

- 1 Bus-Only Lane Retaining Wall (complete☑).
- 2 Westbound Whitemud Drive under the Terwillegar Drive structures (complete☑).
- 3 Westbound Whitemud Drive (east of 142 Street) Retaining Wall (complete☑).
- 4 Northbound Terwillegar Drive to Eastbound Whitemud Drive Ramp Retaining Wall (complete☑).
- 5 Eastbound Whitemud Drive Retaining Wall (complete☑).

*\*topsoil, seeding and naturalization ongoing through 2026.*



Learn more by going to: [edmonton.ca/terwillegardrive](https://edmonton.ca/terwillegardrive)

# Noise Attenuation

Noise assessment was conducted. Noise attenuation is considered when noise levels in private residential backyards exceed 65 dBA.

- A noise barrier was constructed in Ramsay Heights.
- Engagement with residents backing onto the wall is ongoing.



Learn more by going to: [edmonton.ca/terwillegardrive](https://edmonton.ca/terwillegardrive)

# What to Expect During Construction?

Construction includes:

- Construction noise and vibration from equipment.
- Traffic slow down.
- Potential for dust and dirt on the roadway in the construction area.
- Construction will occur Monday through Saturday, with some overnight work as needed. Work on Sunday will only occur when necessary. Residents in the area will be informed of potential major disruptions.



Learn more by going to: [edmonton.ca/terwillegardrive](https://edmonton.ca/terwillegardrive)

# Landscape Design

- All disturbed areas are to be restored with 300mm depth topsoil and Dry Meadow Native Seed Mix.
- Naturalization Zone development includes bed excavation, topsoil, wood mulch, and whip tree (6,947) and shrub (14,461) plantings.
- Potted Stock Zones (deciduous/coniferous trees – 932) are concentrated around the Rainbow Valley Bridges and Whitemud Park parking lot expansion.
- All Naturalization and Potted Stock zones have been developed in plant community types to align with existing corridor species diversity and specific conditions along the corridor.
- All Naturalization includes seed collection and propagation from Alberta Provincial Seed Zone – Central Parkland (CP 1.1). This has included seed collection from along the corridor.

*We value the city's urban tree canopy. The City is committed to growing, sustaining, maintaining, and protecting our urban forest. All proposed tree removals have been completed along the corridor and are to be compensated through the planting of 7,800+ native trees and 14,400+ native shrubs within the project area. Over 20,000 new plantings!*

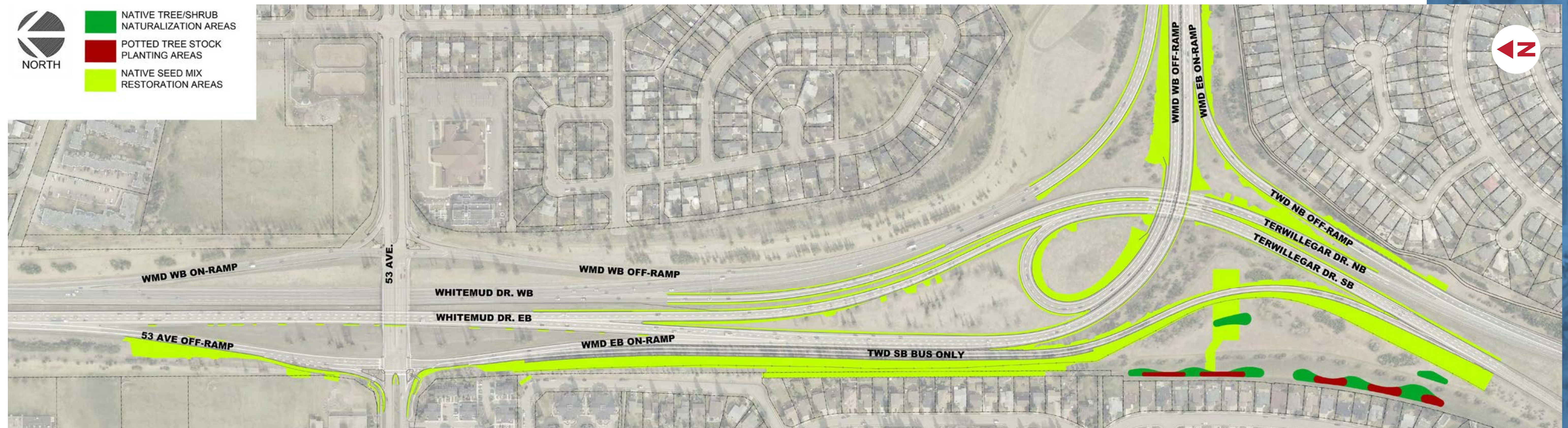


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# Landscape Design

Terwillegar Drive and Whitemud Drive North-South



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# Landscape Design

## Whitemud Drive West-East



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# Terwillegar Drive Expansion Stage Three:

Terwillegar Drive and Anthony Henday  
Drive Interchange Improvements and  
Widening of Terwillegar Drive from  
South of Haddow Drive to South of  
Windermere Blvd



# Stage Three

## Key Upgrades: Driving

- Terwillegar Drive and 170 Street widened from south of Haddow Drive to south of Windermere Boulevard.
- Existing interchange at Terwillegar Drive/Anthony Henday Drive improved to better support traffic flow.
  - Addition of two new loop ramps and a new northbound bridge.
  - Existing bridge converted to carry southbound traffic to improve access from Terwillegar Drive/170 Street to Anthony Henday Drive and handle future traffic demands.



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# Stage Three

## Key Upgrades: Active Transportation

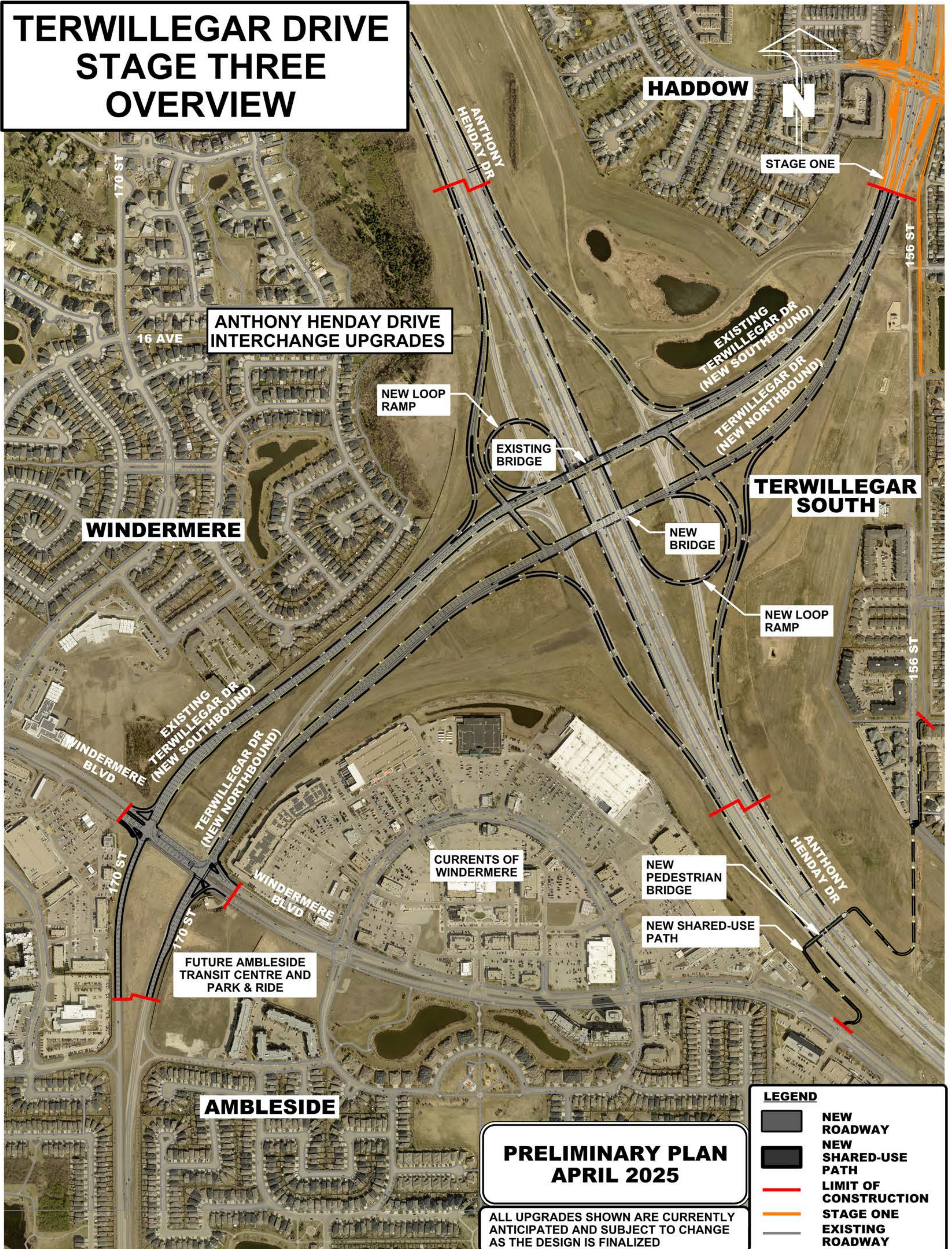
- New pedestrian bridge across Anthony Henday Drive to provide a safe route for those who walk, cycle and roll—the first dedicated pedestrian/cyclist connection over Anthony Henday Drive in Edmonton.
- Shared pathway will tie into shared pathway in south Terwillegar that was completed as part of Stage One.
- New bus-only lanes added to improve transit (matching designs of the other Stages).



Learn more by going to: [edmonton.ca/terwillegardrive](https://edmonton.ca/terwillegardrive)

# Stage Three: Key Upgrades

## TERWILLEGAR DRIVE STAGE THREE OVERVIEW



LEGEND	
	NEW ROADWAY
	NEW SHARED-USE PATH
	LIMIT OF CONSTRUCTION
	STAGE ONE
	EXISTING ROADWAY

**PRELIMINARY PLAN  
APRIL 2025**

ALL UPGRADES SHOWN ARE CURRENTLY ANTICIPATED AND SUBJECT TO CHANGE AS THE DESIGN IS FINALIZED

# Stage Three Project Timeline

- Site preparation –  
Spring to fall 2025
- Interchange construction –  
Anticipated to begin in spring 2026
- Pedestrian bridge construction –  
Anticipated to begin in spring 2026



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For questions or to provide  
comments, email:

**[TerwillegarDrive@edmonton.ca](mailto:TerwillegarDrive@edmonton.ca)**

For more information, visit:

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