

CONSTRUCTION NOTICE

Duggan Tunnel Replacement Project

JUNE 2023

PROJECT OVERVIEW

EPCOR is responsible for the maintenance of the drainage infrastructure in Edmonton. As the infrastructure ages, it deteriorates in many different ways. The current Duggan sanitary tunnel provides service to neighbourhoods in southwest Edmonton and has been identified for replacement. This will see construction of a new sanitary sewer tunnel to service neighbourhoods from Steinhauer up to Bonnie Doon.

The alignment of the new tunnel is along 111 Street from Saddleback Road/29A Avenue, east along 34 Avenue, and then north on 106 Street to north of L.Y. Cairns School.

EPCOR is aware of consistent sewer odour issues in several neighbourhoods along the alignment of the Duggan Tunnel. This project is part of EPCOR's Corrosion and Odour Reduction Strategy (CORe). The strategy aims to understand and mitigate sewer odour issues and will result in significantly reduced sewer odour city-wide by 2031. With completion of the new tunnel, we expect the major cause of how odour is formed and pushed out into the communities to be notably diminished.

The majority of the work will be underground using a tunnel boring machine (TBM). However, there are multiple work sites (shaft locations) along the tunnel alignment to allow the TBM to be lowered underground to excavate, turn corners, and be removed when tunneling is complete.

This project is broken down geographically into five zones which follow the alignment of the new tunnel:

- **Zone A** – 111 Street from Saddleback Road/29A Avenue to 34 Avenue
- **Zone B** – 34 Avenue from 111 Street to 106 Street
- **Zone C** – 106 Street from 36A Avenue to 38 Avenue
- **Zone D** – 106 Street from 40 Avenue to Whitemud Drive
- **Zone E** – 106 Street and 45 Avenue to L.Y. Cairns

Construction has begun in Zones A, B and C at Worksites #1A, #2, #3, #4, #5 and #6.

WHAT'S HAPPENING

Construction in Zone D is expected to begin at the intersection of 106 Street and 40 Avenue (Worksite #7) in **late July 2023**. Construction is also expected to begin at 106 Street and 40A Avenue (Worksite #8) in **late August 2023**. It is anticipated that construction at both worksites will be completed by **fall 2024**.

Please note, timelines are estimates and may change based on work progress, material procurement, unforeseen delays, weather and construction conditions.

SCHEDULE

Regular working hours are **7:00 a.m. to 7:00 p.m. Monday to Saturday**. If required, these hours may be extended, and construction may occur on **Sundays from 9:00 a.m. to 5:00 p.m.**

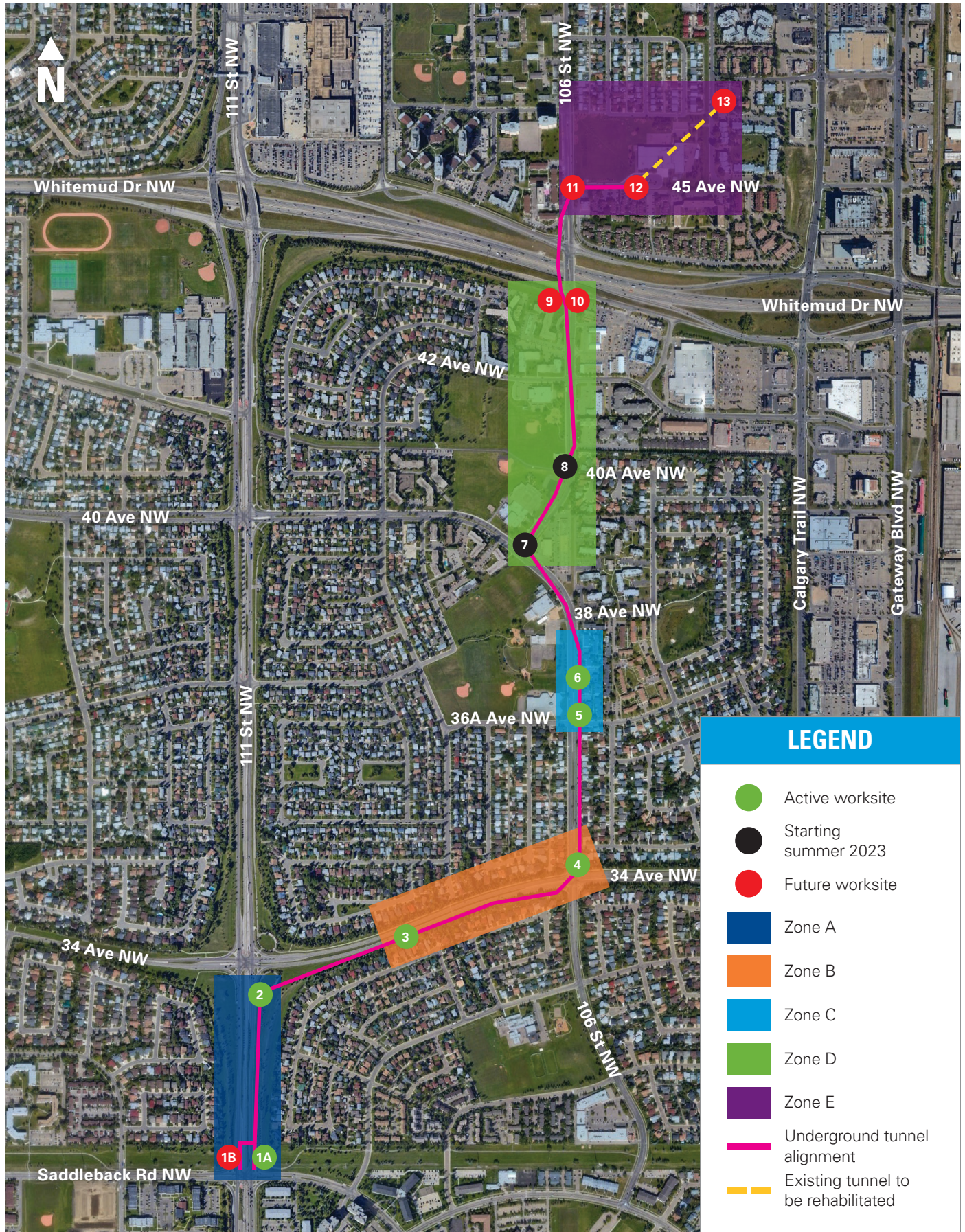
24 hours a day, 7 days a week (24/7) tunneling work may be required at Worksite #3, 8, and 11 once the shafts are constructed. Residents and businesses in the localized area of the work will be notified before this activity begins.

SAFETY

The construction areas will be fenced and/or marked as restricted areas. We will take every precaution to ensure public safety, and we request your assistance in keeping children and pets a safe distance from the construction site and the equipment.

We thank you for your patience and understanding as we perform this necessary work.

OVERALL PROJECT AREA



MAP OF WORKSITE #7 AND #8

Construction at Worksite #7 is expected to begin in **late July 2023**. Construction at Worksite #8 is expected to begin in **late August 2023**. Both worksites are anticipated to be completed by **fall 2024**.



TRAFFIC IMPACTS

- One northbound and one southbound lane will be closed on 106 Street from 40 Avenue to north of DS MacKenzie Junior High. One lane will remain open in each direction.
- The southbound left hand turning lane from 106 Street onto 40 Avenue will be closed. Vehicles will be able to turn left from the one remaining open lane.
- No left hand turns will be permitted from the Duggan Mall exits onto southbound 106 Street.
- DS MacKenzie Junior High drop off and pick up area on the west side of 106 Street will be reduced. A smaller area will remain open between Worksite #7 and Worksite #8 for student drop off and pick up.

PEDESTRIAN IMPACTS

- The crosswalk across 106 Street on the north side of 40 Avenue will be closed. Pedestrians will be detoured to the north.

ACTIVE WORKSITES

The following worksites are currently underway.

Zone A: 111 Street from Saddleback Road/ 29A Avenue to 34 Avenue

- **Worksite #1A** – Westbound on 29A Avenue and east of 111 Street
 - Construction of the TBM retrieval shaft began in May 2023 with completion expected in summer 2024.
- **Worksite #2** – In the green space east of 111 Street and south of 34 Avenue
 - Construction of the TBM entry and retrieval shaft began in April 2023 with completion expected in summer 2024
 - Once the shaft construction is complete, the TBM will be retrieved following a tunneling run from Worksite #3.
 - Once the first tunneling drive is complete, tunneling from Worksite #2 to Worksite #1A will begin.

Zone B: 34 Avenue from 111 Street to 106 Street

- **Worksite #3** – Eastbound on 34 Avenue, between 111 Street and 106 Street
 - Construction of the TBM entry shaft began in March 2023 with completion expected in summer 2024
 - Once the shaft construction is complete, tunneling will begin towards Worksite #4, and then from Worksite #3 to Worksite #2.
- **Worksite #4** – Northbound on 106 Street and north of 34 Avenue
 - Construction of the TBM retrieval shaft began in April 2023 with completion expected in summer 2024.
 - Once shaft construction is complete, the TBM will be retrieved following a tunneling run from Worksite #3.

Zone C: 106 Street from 36A Avenue to 38 Avenue

- **Worksite #5** – Intersection of 106 Street and 36A Avenue
 - Construction of the TBM entry shaft began in May 2023 with completion expected in summer 2024.
 - In late summer 2023, tunneling will begin towards Worksite #4.

MORE INFORMATION

EPCOR Drainage Services

Phone: (780) 509-8080

E-mail: epcordrainage@epcor.com

Website: epcor.com/duggan

- **Worksite #6** – Northbound on 106 Street and north of 36A Avenue
 - Construction of the shaft began in May 2023 with completion expected in summer 2024.

FUTURE WORKSITES

The following locations will be used as future tunneling worksites.

More information, including traffic impacts and timelines, will be shared with residents adjacent to the work areas in a construction notice prior to work starting.

Zone A: 111 Street from Saddleback Road/ 29A Avenue to 34 Avenue

- **Worksite #1B** – 111 Street southbound, left turn lane onto 29A Avenue
 - Construction of the shaft is anticipated to start in fall 2023 with completion in fall 2024.

Zone D: 106 Street from 40 Avenue to Whitemud Drive

- **Worksite #9** – Southbound on 106 Street and south of Whitemud Drive
 - Construction of the TBM retrieval shaft is anticipated to start in fall 2023 with completion in fall 2024.
- **Worksite #10** – Northbound on 106 Street and south of Whitemud Drive
 - Construction of the shaft is anticipated to start in early 2024 with completion in summer 2024.

Zone E: 106 Street and 45 Avenue to L.Y. Cairns

- **Worksite #11** – Intersection of 45 Avenue and 106 Street
 - Construction of the TBM entry shaft is anticipated to start in fall 2023 with completion in fall 2024.
- **Worksite #12** – 45 Avenue east of 106 Street
 - Construction of the TBM retrieval shaft is anticipated to start in fall 2023 with completion in fall 2024.
- **Worksite #13** – 104A Street north of 45 Avenue
 - Construction to rehabilitate the existing tunnel is anticipated to start in early 2024 with completion in fall 2024.

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