

CONSTRUCTION NOTICE

Duggan Tunnel Replacement Project

MAY 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, particularly in Steinhauer. 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 Zone B at Worksites #2, #3 and #4.

WHAT'S HAPPENING

Construction at the intersection of 106 Street and 36A Avenue (Worksite #5) is expected to begin in **late May 2023**. Construction northbound on 106 Street and north of 36A Avenue (Worksite #6) is also expected to begin in **late May 2023**. It is anticipated that construction at both worksites will be completed by **summer 2024**.

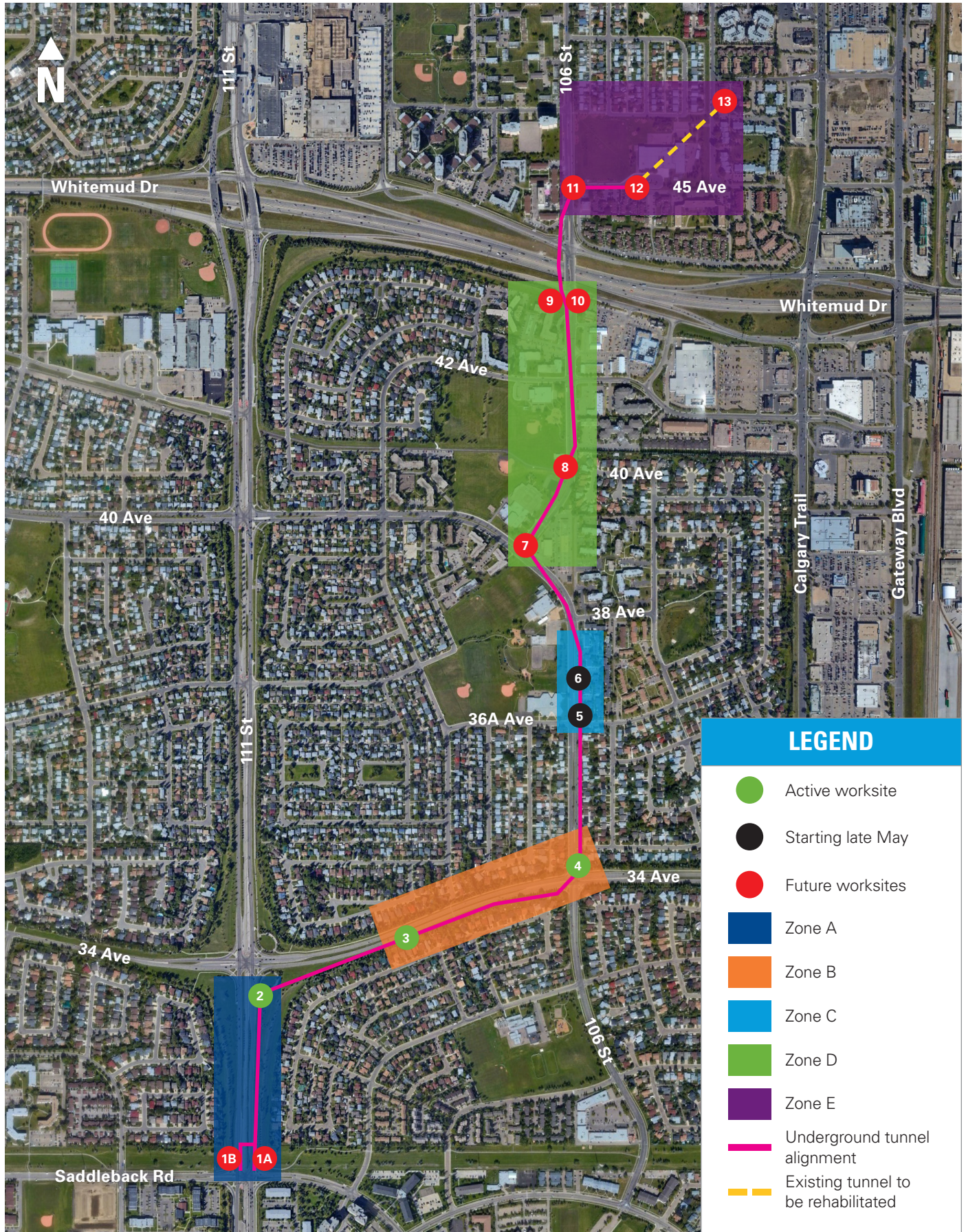
Please note, timelines are estimates and may change based on work progress, material procurement, unforeseen delays, weather and construction conditions.

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.**

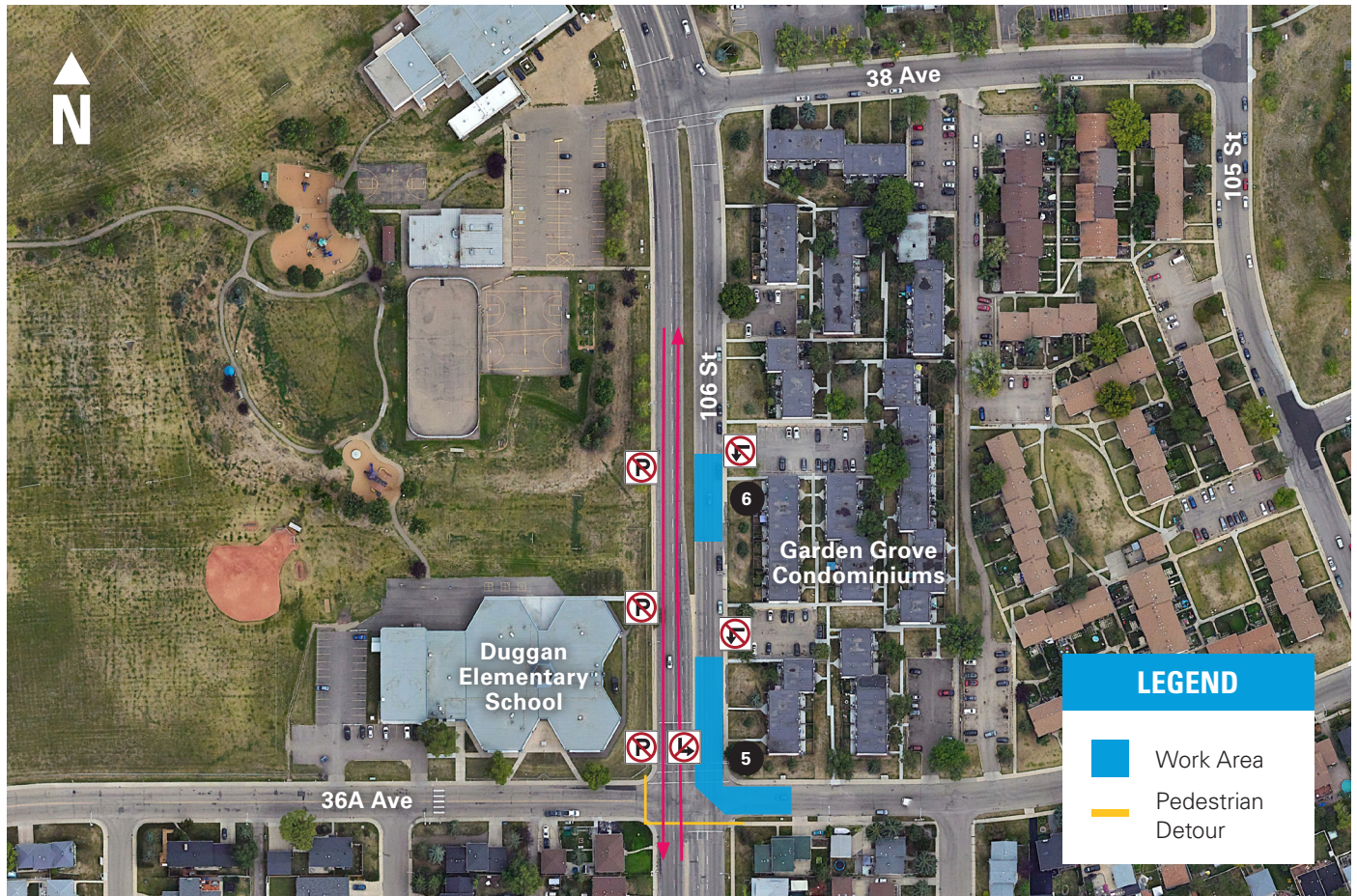
24 hours a day, 7 days a week (24/7) tunneling work is required at Worksite #5 once the shaft is constructed. Residents and businesses in the localized area of the work will be notified before this activity begins.

OVERALL PROJECT AREA



MAP OF WORKSITE #5 AND #6

Construction at Worksite #5 and Worksite #6 is scheduled to begin in late **May 2023**. Both worksites are anticipated to be completed by **summer 2024**. *Please note, timelines are estimates and may change based on work progress, material procurement, unforeseen delays, weather and construction conditions.*



TRAFFIC IMPACTS

- A full road closure of 36A Avenue at 106 Street for approximately 20 metres.
- Two northbound lanes on 106 Street will be closed near the work areas. The southbound lanes will be converted to one lane in each direction to allow two-way traffic.
- No parking will be permitted on the west side of 106 Street north of 36A Avenue adjacent to Duggan Elementary School. When Worksite #6 begins, the no parking area will be extended further north.
- Student pick off and drop off will not be permitted on the west side of 106 Street adjacent to Duggan Elementary School. Drop off and pick up is permitted on 36A Avenue.
- Access into Garden Grove Condominiums will be maintained from 106 Street. The median in the centre of 106 Street will be removed to allow turns into the parking lots.
- No left hand turns will be permitted from southbound 106 Street onto eastbound 36A Avenue.
- No left hand turns will be permitted from both parking lots of Garden Grove Condominiums onto southbound 106 Street.

PEDESTRIAN IMPACTS

- No crossing will be permitted across 106 Street on the north side of 36A Avenue. Pedestrians will be detoured to the south crossing.
- No crossing will be permitted across 36A Avenue on the east side of 106 Street. Pedestrians will be detoured to the west side of 36A Avenue.
- The sidewalk on the east side of 106 Street north of 36A Avenue will be closed. Pedestrians will be detoured to the west side of 106 Street. When Worksite #6 begins, the sidewalk closure will be extended to the north.

Please note, traffic accommodation will be slightly different at the start of construction to facilitate removal of the traffic median on 106 Street.

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

Zone D: 106 Street from 40 Avenue to Whitemud Drive

- **Worksite #7** – Intersection of 106 Street and 40 Avenue
 - Construction of the TBM retrieval shaft is anticipated to start in summer 2023 with completion in summer 2024.
- **Worksite #8** – Southbound on 106 Street and south of 41 Avenue
 - Construction of the TBM entry shaft is anticipated to start in summer 2023 with completion in summer 2024.
- **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 TBM retrieval 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.

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

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.

MORE INFORMATION

EPCOR Drainage Services

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