

The background of the top half of the page is a photograph of a construction worker. The worker is wearing a white hard hat with a headlamp, safety glasses, and an orange high-visibility shirt. He is holding a large wooden spool of power cables. The cables are dark and bundled together. The background shows a building with a corrugated metal roof under a clear sky.

POWER SYSTEM RELOCATIONS TO ACCOMMODATE THE CAPITALCARE NORWOOD REDEVELOPMENT PROJECT

January 2019

As part of the CapitalCare Norwood Redevelopment Project, EPCOR must relocate electric transmission and distribution facilities, and fibre optic cables in and around the proposed project. This work must occur in the early stages of the redevelopment process to ensure that electricity is available throughout construction and in place for the expansion.

You are receiving this information because you are a resident, landowner or interested party near the area where power system relocations will occur.

This project notice outlines the work required, construction impacts, and timelines.

PROJECT OVERVIEW

To make way for the new CapitalCare Norwood expansion, EPCOR must relocate some of our electrical facilities. This will include installing new poles, wires and equipment in the area, de-energizing and moving existing assets, and removing some power system infrastructure that will no longer be needed.

Most of the work required will occur in the construction area of the proposed CapitalCare Norwood expansion (see the area outlined in red on the map). Some work outside the site will be needed; however, we hope to minimize impacts to local residents as best as we can.

In the coming weeks, we will be meeting with residents on 105 Street, between 112 Avenue and 113 Avenue, to discuss the work that needs to be done on 105 Street in the late summer/early fall of 2019 and to answer questions and speak about any concerns.

Our Commitment

We are committed to being a good neighbour, and being approachable and responsive to public concerns and questions. With each project we believe good two-way communication will help us deliver value in a socially and environmentally responsible manner. If you have a question or concern about this work, contact us.

EPCOR Public Consultation
780-412-4040
consultation@epcor.com

WHAT YOU CAN EXPECT FROM CONSTRUCTION

Most of EPCOR's work will be limited to the construction area of the CapitalCare Norwood expansion. Here's what you can expect to see and hear from that work.

If you are a resident of 105 Street, between 112 Avenue and 113 Avenue, please see page 5 for information about the freeze pit that will be required for six weeks in the late summer/early fall of 2019 in the area.

Hours of Work

EPCOR crews will be working Mondays to Fridays, 7 a.m. to 5 p.m.; however, occasional evening and weekend work may be required.

Power Outages

Some planned power outages will be required to allow crews to safely complete the required work. Customers affected by a scheduled power outage will be notified in advance with details about the outage date and time.

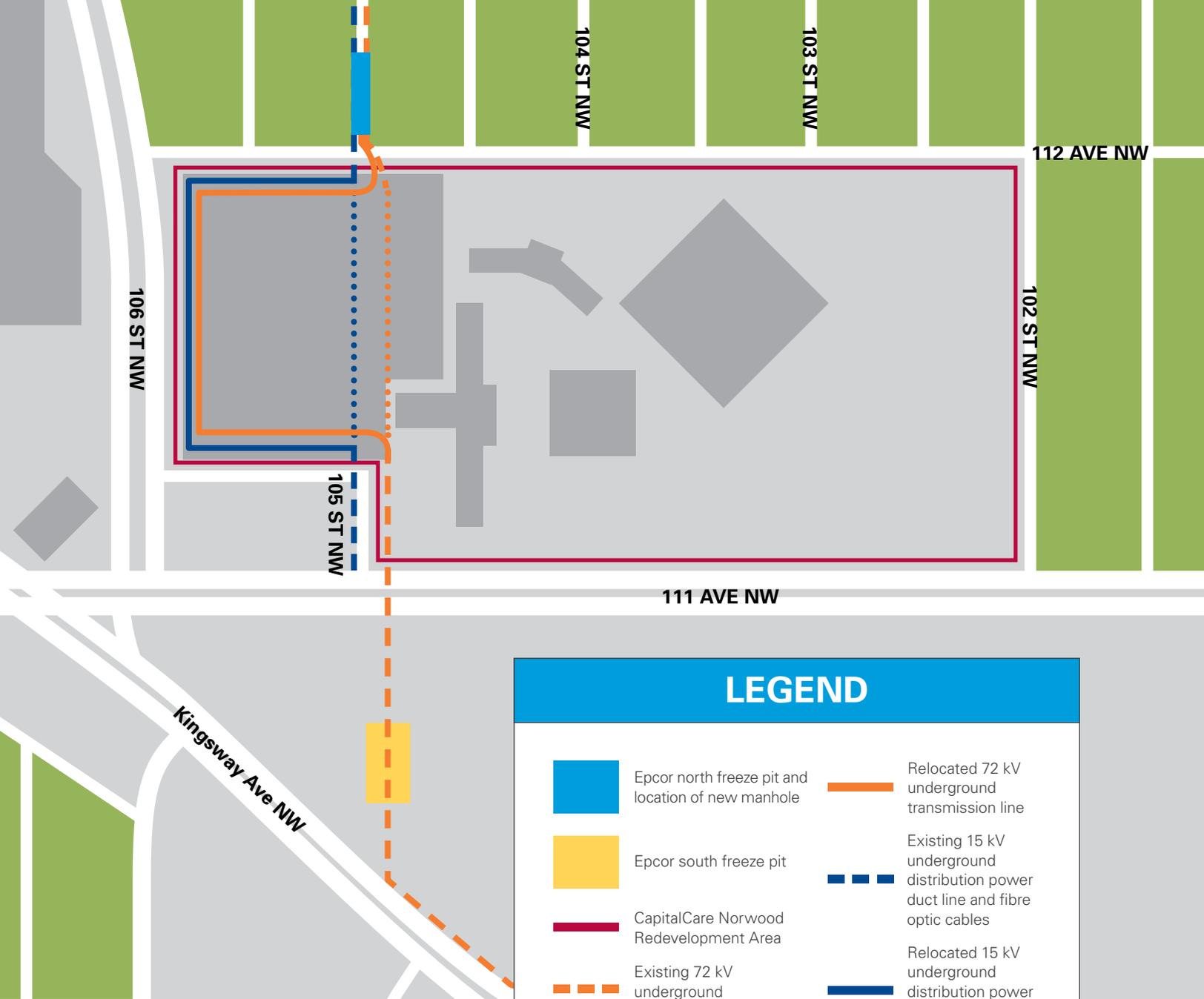
Construction Equipment

Multiple EPCOR crews will be working in the neighbourhood while utilities are being relocated. You can expect to see company and contractor trucks, diggers, hydrovacacs and cable reels in the area.

We are committed to public and employee safety. All construction activities will be in accordance with City of Edmonton bylaws, Occupational Health & Safety requirements, and EPCOR's strict health, safety and environment procedures and guidelines.

Construction Noise

This work will create typical noise associated with construction. We will take measures to ensure we comply with the City of Edmonton's Community Standards Bylaw for Noise Control. Should it be necessary to temporarily exceed acceptable noise levels, we will work with the City of Edmonton to obtain the necessary permits.



LEGEND

	Epcor north freeze pit and location of new manhole		Relocated 72 kV underground transmission line
	Epcor south freeze pit		Existing 15 kV underground distribution power duct line and fibre optic cables
	CapitalCare Norwood Redevelopment Area		Relocated 15 kV underground distribution power duct line and fibre optic cables
	Existing 72 kV underground transmission line		Powerlines to be removed from service
	Powerlines to be removed from service		

DEFINITIONS

Transmission Power Lines

Transmission power lines are like highways, moving high-voltage electricity from generating stations to distribution points (called substations) where the high-voltage electricity gets stepped down to lower voltages.

Distribution Power Lines

Once voltages are stepped down at a substation, the electricity travels along lower-voltage distribution lines. These lines are the ones that leave a substation and make their way to our homes or businesses.

EPCOR Fibre Optic Cables

Fibre optic cables provide a communications link between neighbouring substations and EPCOR's control centre. This enables EPCOR to monitor and remotely control its transmission equipment, communicate with other transmission operators, and ensure the safety and reliability of EPCOR's transmission system.

EPCOR UTILITY WORK REQUIRED

Most of the work required will occur in the construction area of the proposed CapitalCare Norwood expansion (see the area outlined in red on the map). Exceptions are noted below.

Relocate a 72 kV Power Transmission Line

- Install a new 72 kV underground transmission power line around the perimeter of the proposed CapitalCare Norwood project (see the solid orange line on the map);
- Install a new man hole on 105 Street, north of 112 Avenue;
- De-energize the existing 72 kV underground transmission line located on the east side of 105 Street, between 111 Avenue and 112 Avenue (see the orange dotted line on the map); and
- Remove the de-energized underground transmission facilities on the north side of the project site. Underground facilities on the south side of the project will be left-in-place to accommodate Alberta Infrastructure's current and future landscaping plans.

This work will require the construction of two temporary freeze pits in the late summer/early fall of 2019. One freeze pit will be located on 105 Street, between 112 Avenue and 113 Avenue; the other, west of the Royal Alexandra Renal Centre. Please see page 5 for more information about why freeze pits are needed, what nearby residents can expect to see and hear, and photos of other freeze pits we've used.

Remove and Relocate Power Distribution Lines

- Remove the distribution power poles, wires and associated equipment in the lane west of 105 Street, between 111 Avenue and 112 Avenue;
- Install a new 15 kV underground distribution duct line around the perimeter of the proposed CapitalCare Norwood project (see the solid blue line on the map);
- De-energize the existing 15 kV underground distribution duct line located below 105 Street, between 111 Avenue and 112 Avenue (see the blue dotted line); and
- Remove the de-energized underground distribution facilities in the area of the project site.

Relocate EPCOR Fibre Optic Cables

- Install new fibre optic cables in the new distribution duct line located around the perimeter of the proposed CapitalCare Norwood project (see blue line on the map);
- Disconnect the fibre optic cables located in the distribution duct line located below 105 Street, between 111 Avenue and 112 Avenue (see the blue dotted line on the map); and
- Remove the fibre optic cable at the same time the decommissioned distribution duct line is removed.

Power System Upgrades and Pole Replacements

- Install one new temporary power service north of 112 Avenue to ensure power is available during the construction period;
- Upgrade distribution power poles and facilities located on road rights-of-way on the north side of 112 Avenue, between 103 Street and 106 Street; and
- Relocate existing and install new power system equipment, as required, at the proposed CapitalCare Norwood site to provide electrical services to the new facility and to accommodate for the increased demand for power.

Customers directly impacted by power system upgrades or installation of temporary facilities will be contacted by EPCOR in advance of work being conducted.

Water and Drainage

Water and drainage services near the proposed CapitalCare Norwood site will be removed, installed and relocated as needed to accommodate the expansion. At this time, this work is expected to be contained to the construction area. Disruptions to water or drainage services may be required to allow crews to safely complete this work. Customers affected by a disruption in service will be notified by EPCOR in advance.

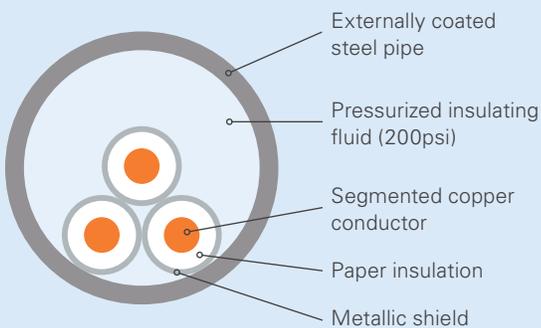
Internet, Phone and Cable

Please note that EPCOR is not responsible for internet, telephone or cable services. While we are working to coordinate utility relocations with other utility services providers to limit service interruptions to residents and businesses in the area, we suggest customers speak with their internet, phone and cable providers to obtain information about any scheduled service interruptions in the area.

FREEZE PITS

Transmission lines buried underground are located in a pipe filled with insulating fluid to manage heat and insulate the power cables. When an underground transmission power line needs to be cut, the insulating fluid must be frozen. To accomplish this, a freeze pit is dug adjacent to the location of the pipe that needs to be cut. A heat exchanger coil is wrapped around the transmission line and liquid nitrogen is pumped through the heat exchanger coil, freezing the insulating fluid in the pipe around the power cables. This allows the transmission line to be cut and handled safely.

Profile of cut High-Pressure Fluid-Filled (HPFF) transmission line.



The following work is required for each freeze pit:

- The excavation of a hole approximately 3 m wide x 3 m long x 3 m deep to access the transmission line;
- A work area 3 m wide x 3 m long located directly beside the excavation to place equipment used to freeze the cable; and
- The continuous monitoring of the freeze pit for approximately six weeks to ensure the cable freeze remains intact around the transmission line. This process requires an EPCOR representative and vehicle to be on site 24 hours-a-day, 7 days-a-week. At times, additional lighting and the use of a small generator may also be required.

Required freeze pit locations:

- East side of 105 Street, north of 112 Avenue
- Green space west of the Royal Alexandra Renal Centre

What you can expect to see and hear around the freeze pits:

Lane Closures and Parking Restrictions

- 105 Street, north of 112 Avenue, will be reduced to one lane in the area directly adjacent to the freeze pit and new manhole.
- No parking will be permitted in front of homes on the east and west sides of 105 Street where the freeze pit is located. Parking will remain available on 105 Street north of the freeze pit and new manhole.

Fencing

- The work area around the freeze pits will be fenced off and monitored by an EPCOR representative at all times. The work area will be maintained in a safe and secure manner and performed in accordance with City of Edmonton bylaws, Occupational Health and Safety requirements, and EPCOR's strict health, safety and environment procedures and guidelines.

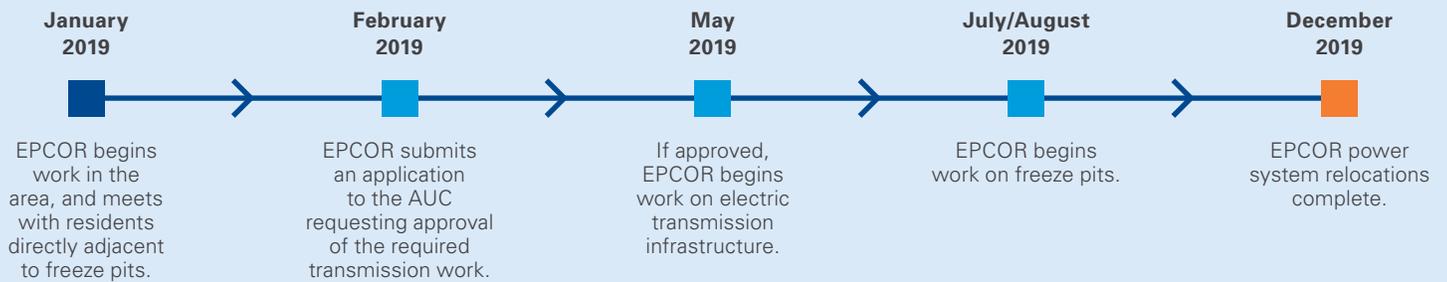
Noise

- The generator used in the freeze pit will be a 'whisper quiet' unit and produce sound levels similar to background noise in an office.

Ground Disturbance

- Roads, curbs and pavement removed during the excavation of each freeze pit will be restored when the freeze pit is no longer required and when weather permits landscaping to be completed.

PROPOSED SCHEDULE



For updates to the project timeline, [please visit epcor.com/consultation](http://epcor.com/consultation)

NEXT STEPS

In the coming weeks, we will be meeting with residents on 105 Street, between 112 Avenue and 113 Avenue, to discuss the freeze pit and manhole installation that is required on 105 Street.

Certain alterations to Alberta's transmission power system require the approval of the Alberta Utilities Commission (AUC). In February 2019, we plan to submit an application to the Alberta Utilities Commission describing the transmission work required and our plans to conduct the work in a safe and responsible manner. The AUC must approve our application before we can begin work on the relocation of the underground 72 kV transmission line. We have enclosed the AUC's brochure entitled, *Public involvement in a proposed utility development* for more information about how customers can participate in the AUC regulatory review process.

All other EPCOR work required on the electric distribution system, and water and drainage facilities in the project area does not require the approval of the AUC and will proceed according to their project schedule.

About EPCOR

EPCOR, through its subsidiaries, builds, owns and operates electrical, natural gas and water transmission and distribution networks, water and wastewater treatment facilities, sanitary and storm water systems, and infrastructure in Canada and the United States.

The company also provides electricity, natural gas and water products and services to residential and commercial customers. EPCOR, headquartered in Edmonton, is an Alberta Top 70 employer. EPCOR's website address is www.epcor.com.

About the Alberta Utilities Commission (AUC)

The Alberta Utilities Commission (AUC) is an independent, quasi-judicial agency established by the Government of Alberta and is responsible for ensuring the delivery of Alberta's utility services takes place in a manner that is fair, responsible and in the public interest. The AUC ensures that electric facilities are built, operated, and decommissioned in an efficient and environmentally responsible way.

The AUC must approve EPCOR's application before work on the transmission power system can begin. For more information on the AUC's regulatory process and to have your say about a utility project, visit www.auc.ab.ca.

ABOUT THE CAPITALCARE NORWOOD REDEVELOPMENT PROJECT

To meet the increased demand for the services and programs provided at CapitalCare Norwood, a redevelopment project is underway. The expansion will be a great benefit to Albertans and improve care delivery in the area.

The \$364 million expansion of CapitalCare Norwood will accommodate a broad range of support programs and services in a new and renovated space including post-acute care, complex long-term care and palliative care.

The project will also relieve pressure on Edmonton's hospitals and continuing care systems by reducing the demand for emergency departments, inpatient acute care services and residential continuing care placement.

For more information about the CapitalCare Norwood Redevelopment Project please visit, www.ahs.ca/norwoodproject or email capitalcarenorwoodproject@ahs.ca.

*Artist rendering courtesy of the
Government of Alberta*





EPCOR respects your privacy. Any personal information we collect about you, including your name, address, phone number, and e-mail address will only be used in regards to EPCOR projects, including electricity transmission and distribution, natural gas, water and drainage. For more information on EPCOR's Privacy Policy, please visit epcor.com, or if you would like to opt out, please call us at (780) 412-4040.