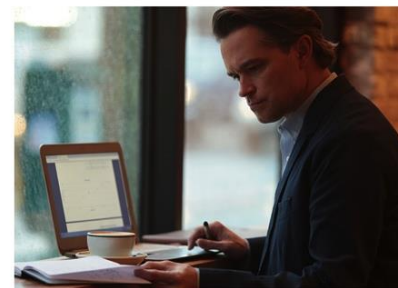


# Willamette River Cable Crossing

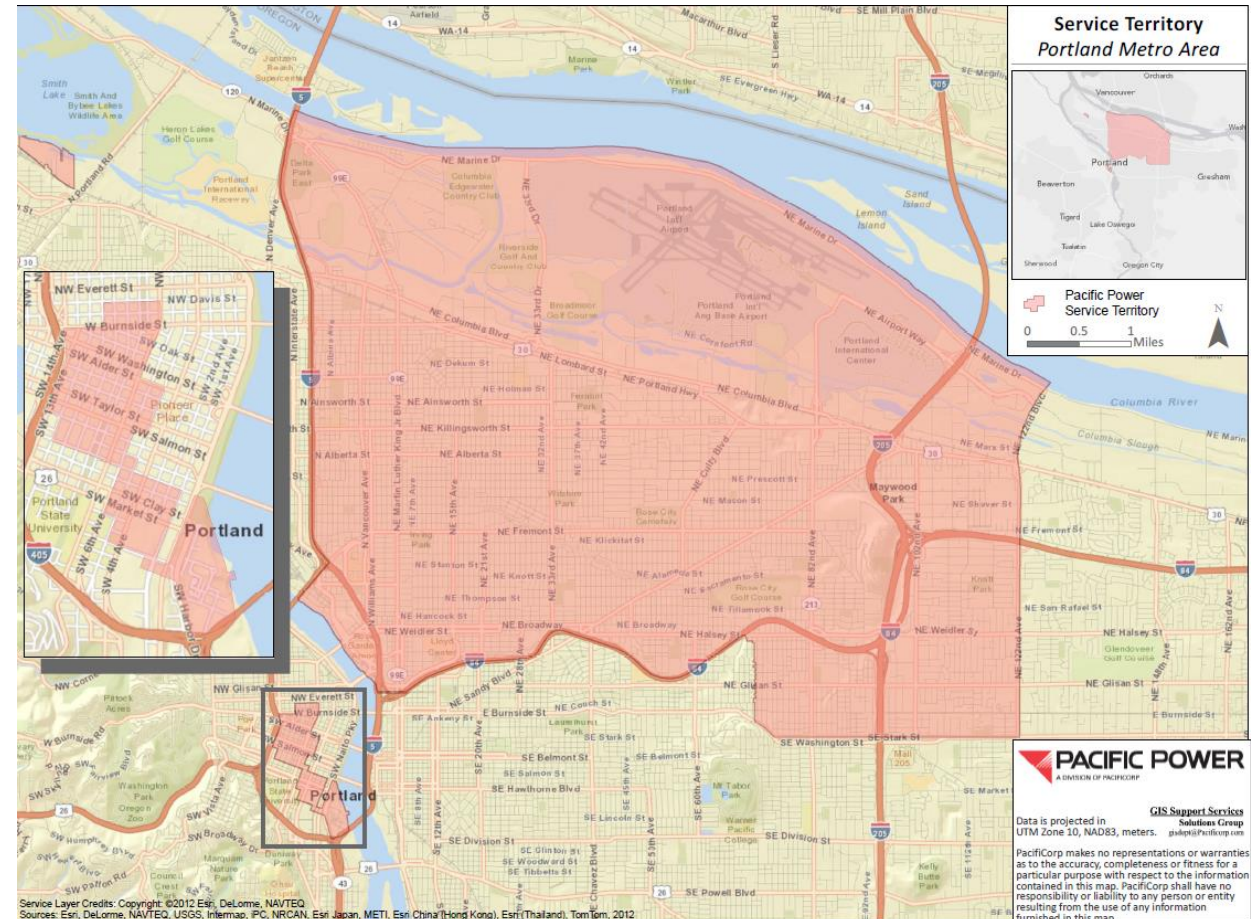
## Pearl District Neighborhood Association

### August 11, 2022



# About Pacific Power

- Electric utility serving about 90,000 customers in N, NE, and downtown Portland
- A unit of PacifiCorp. Headquartered in the Lloyd District
- 1,000 employees in Portland



# Why a cable crossing project?

- The EPA's Portland Harbor Superfund Site cleanup (River Mile 11E) will require dredging or capping of contaminated sediments in the Willamette River.
- To accommodate the clean up effort, Pacific Power must:
  - Remove existing power cables connecting an east bank substation to the downtown grid that currently lay in sediment along the bottom of the river
  - Replace the current crossing with new cables - placed inside 3,000-foot-long tunnel drilled under the riverbed



# Drilling location/cable route

## Why Fields Park?

- Several blocks of straight-line open space needed beyond the drill bore entry pit to assemble and install the tunnel casing
- 17 total crossing routes studied
- Only two routes found that did not have obstructions preventing installation of tunnel casing and that were permissible – both required use of Fields Park on west bank
- Use of overhead transmission lines to cross the river not allowed by regulation





# Impact to The Fields Park and Surrounding Area

- Partial park closure approximately 6-9 months in Starting in early spring 2023
- Approximately 2/3 of grassy oval
- Playground and dog park to stay open
- Oval track to remain open with flaggers for construction traffic at entrance most of the time.
- Work will occur between 7AM and 6PM Mon thru Saturday
- Closure of sections of NW Pettygrove for a conduit installation for extended periods during construction.
- Park will be fully restored to pre-construction conditions



Root Protection —————

Temporary Work Space - - - - -

Temporary Conduit Laydown Route —————→

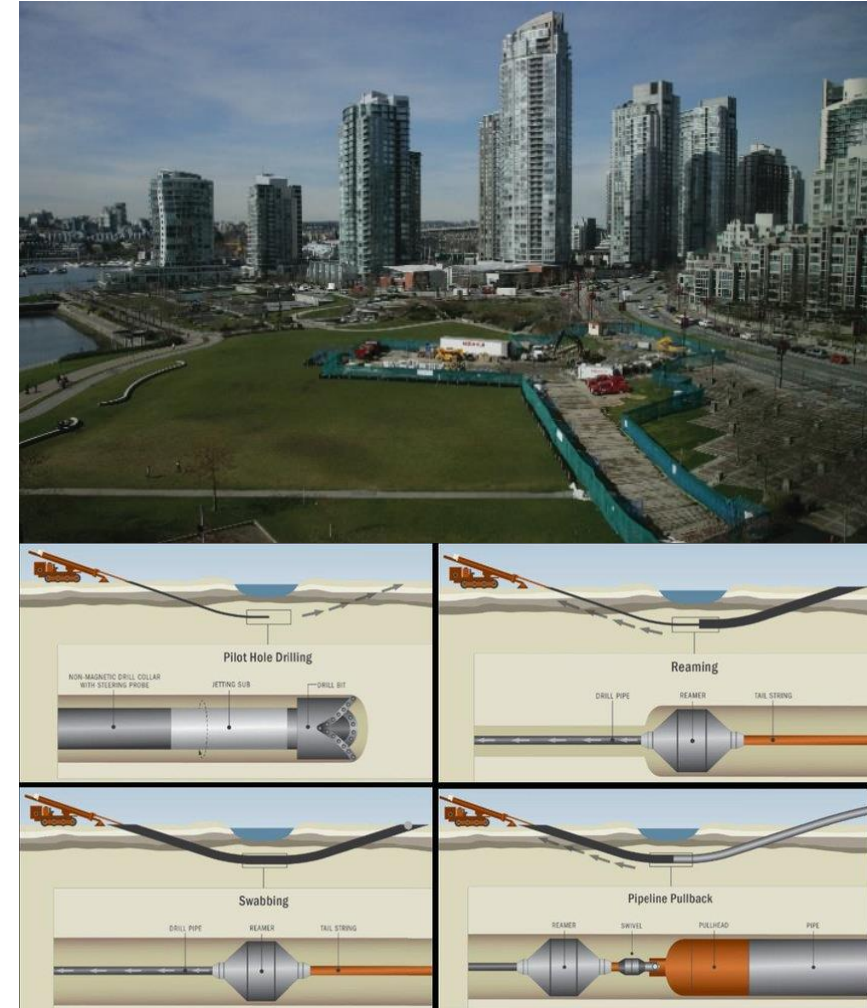
# What will be happening

## Michels Corporation

- Leading energy and infrastructure contractor – HQ in Brownsville, WI
- Regional offices in Salem, OR and Tumwater, WA
- Specializes in underground cable installations

## Horizontal Directional Drilling

- Method of installing underground pipes, cables, and conduits.
- Trenchless – construction activities are conducted underground from surface to surface.
- Conduit will be installed approximately 150-feet+ below the bottom of the Willamette River



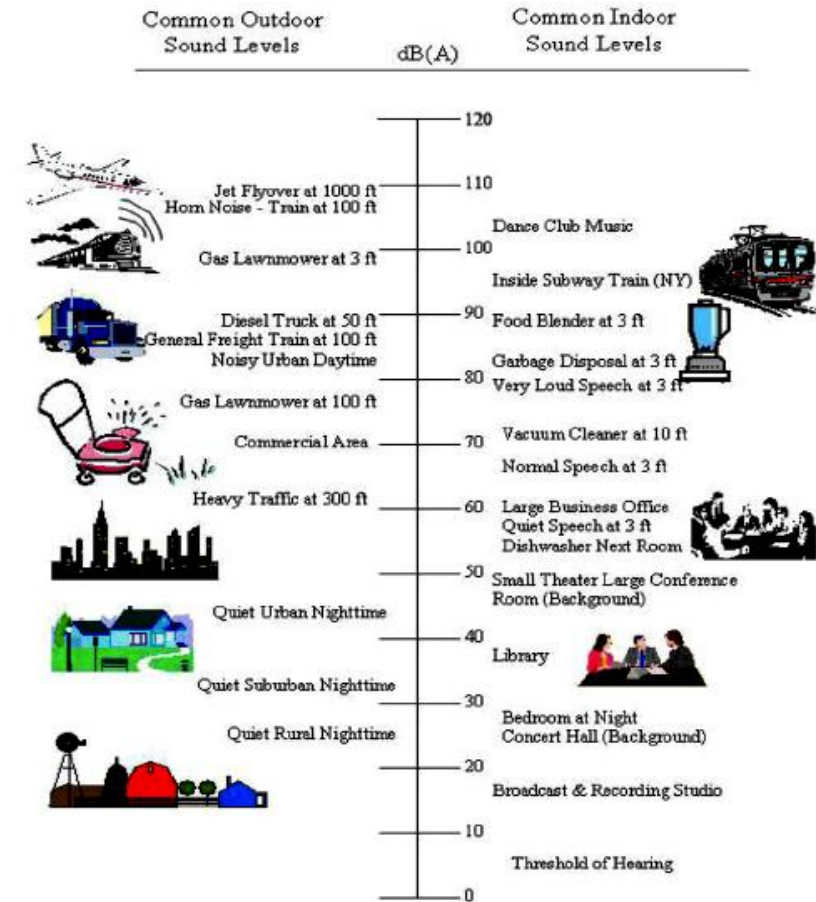
# Horizontal Directional Drilling

- **What it sounds like:**

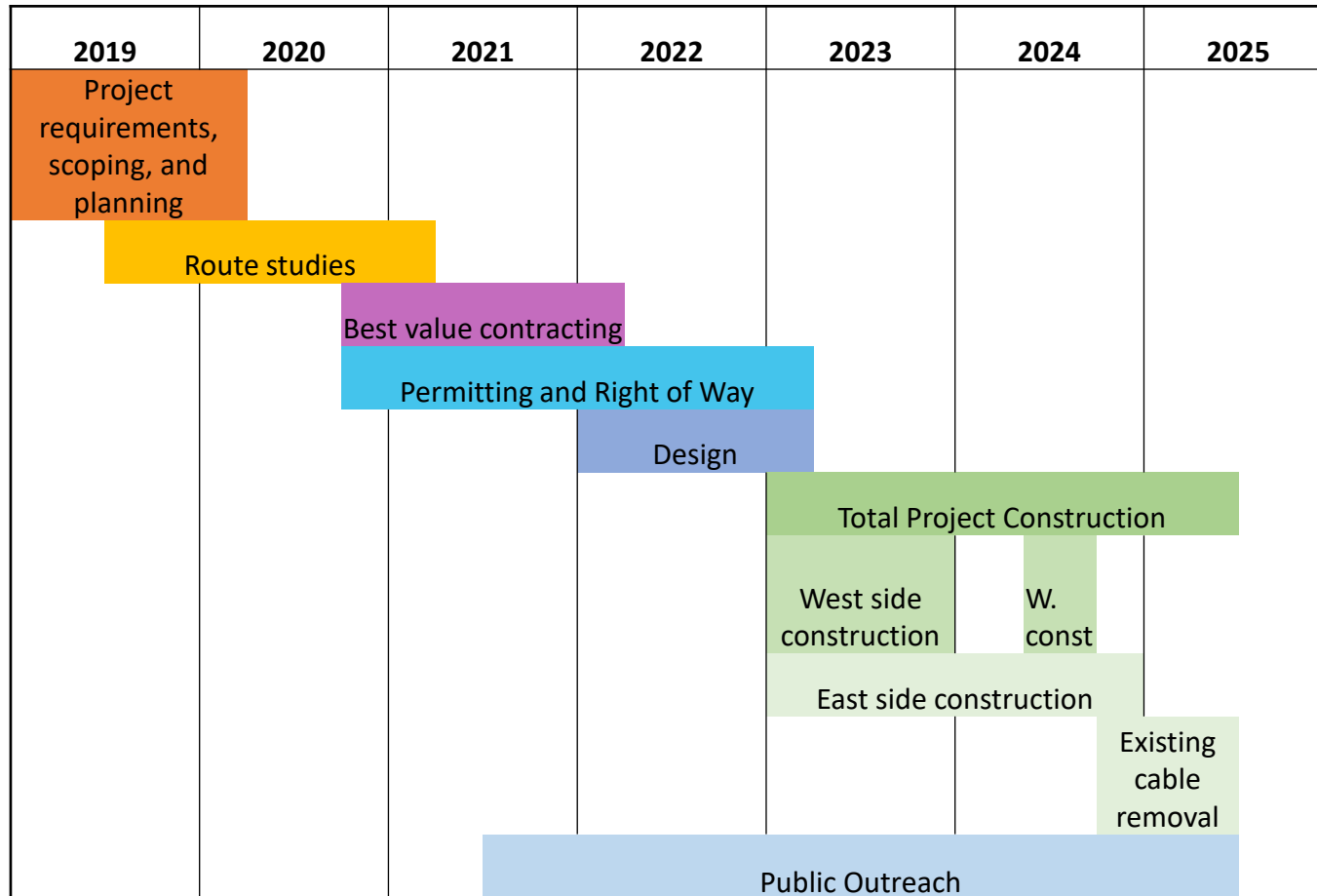
- Casing installation during project start up (1-2 hours / day for first 60-days)
  - Pneumatic hammering: 117 dB – 5-feet from source (similar to that of pile driving currently occurring for building construction in the Pearl just Northwest of The Fields Park)
- Horizontal Directional Drilling Operations (10 hours / day for duration of project)
  - Generators, excavators, separation plant: 80-90 dB – 5-feet from source

- **What it looks like:**

- Majority of equipment within The Fields Park behind construction fencing.
- Area to be covered with mats to avoid rutting of ground and creation of dust.
- Deliveries made to site off of Northwest 11<sup>th</sup> Avenue
  - 20 trucks for setup activities
  - 5 trucks daily for material deliveries
  - Sweepers present to maintain any debris on roadways.
- Welding of conduit on Northwest Pettygrove Street
  - Temporary full and partial closures of streets in the area for conduit installation
  - Closure of sections of NW Pettygrove for a conduit installation for extended periods during construction.



# Process/next steps



## Where we are now

- Detailed design is about 40% complete
- River crossing route right of way and permits issued
- Onshore route permits in process
- Public outreach and presentation in process
- Construction is scheduled to start in Q1 2023



# Contacts/resources

Project overview/updates

<https://www.pacificpower.net/about/willamette-river-crossing-project.html>

## Pacific Power

- Email [PacificPowerConstruction@PacifiCorp.com](mailto:PacificPowerConstruction@PacifiCorp.com) Include “River Crossing” in your inquiry
- Bob Gravely, regional business manager  
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