

Legend

- Milliken Transmission Line
- Immediate Action Tower
- City of Portland
- County Boundary

22-183800-ZP

Miles

FIGURE 1
Vicinity Map

PGE - Milliken Immediate Action
Tower Replacements
City of Portland, Oregon

June 2022

AECOM

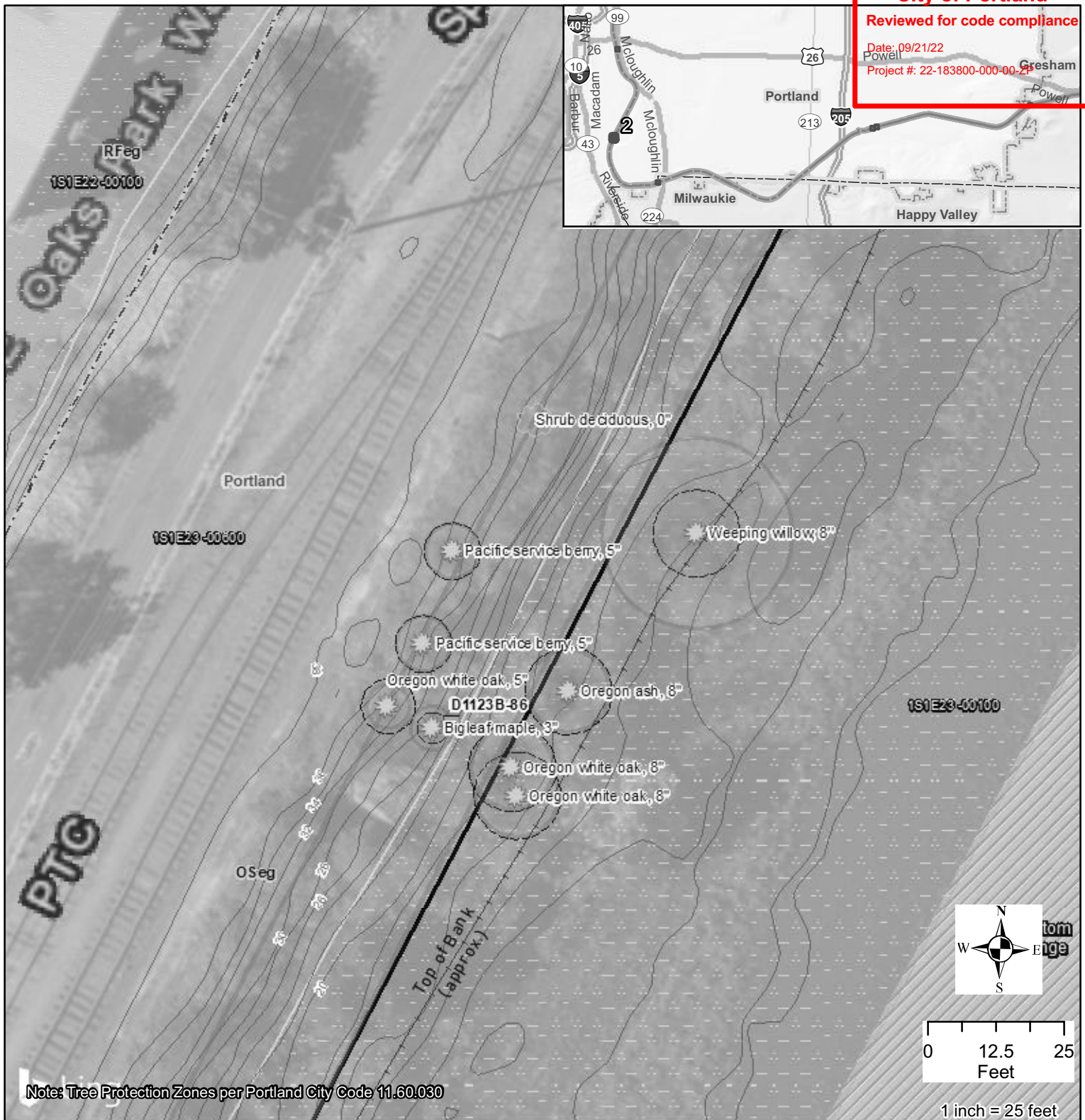
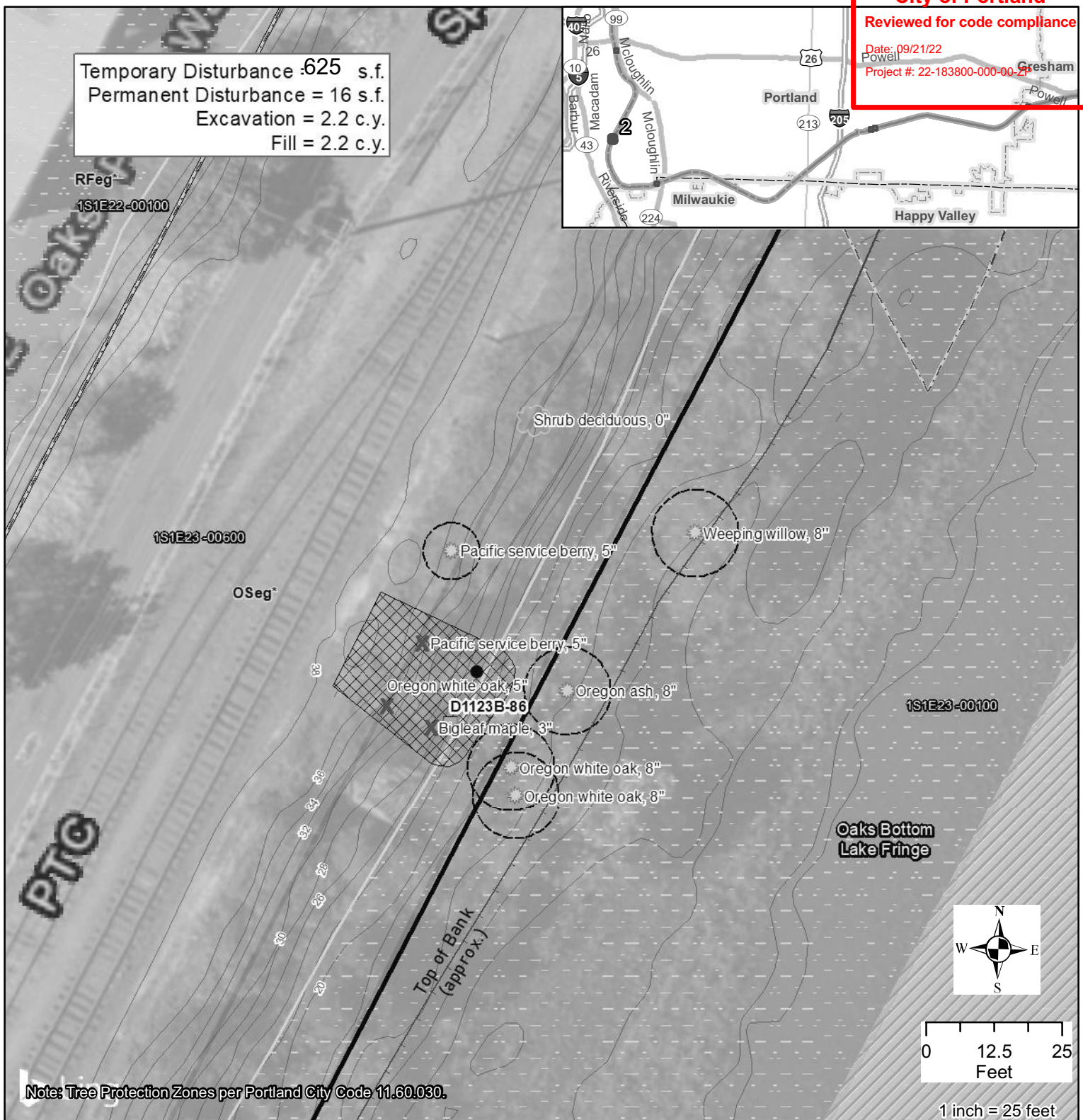


FIGURE 2
Existing Conditions Map

PGE - Milliken Immediate Action
Non-Exempt Tower Replacements
City of Portland, Oregon

July 2022

Temporary Disturbance :625 s.f.
Permanent Disturbance = 16 s.f.
Excavation = 2.2 c.y.
Fill = 2.2 c.y.



Legend

- | | | | | | |
|--|-------------------------------------|--|------------------------------------|--|----------------------|
| | Tax Lot | | Temporary Work Area | | Root Protection Zone |
| | Zoning | | 1% Annual Chance Flood Zone (FEMA) | | |
| | Contour (2 ft) | | 1996 Flood Inundation | | |
| | Wetland/Water (NWI) | | Proposed Tree Removal | | |
| | Existing Milliken Transmission Line | | Preserved Tree | | |
| | Immediate Action Tower | | | | |
| | Proposed Monopole | | | | |

FIGURE 3
Proposed Development Map

PGE - Milliken Immediate Action
Non-Exempt Tower Replacements
City of Portland, Oregon

September 2022

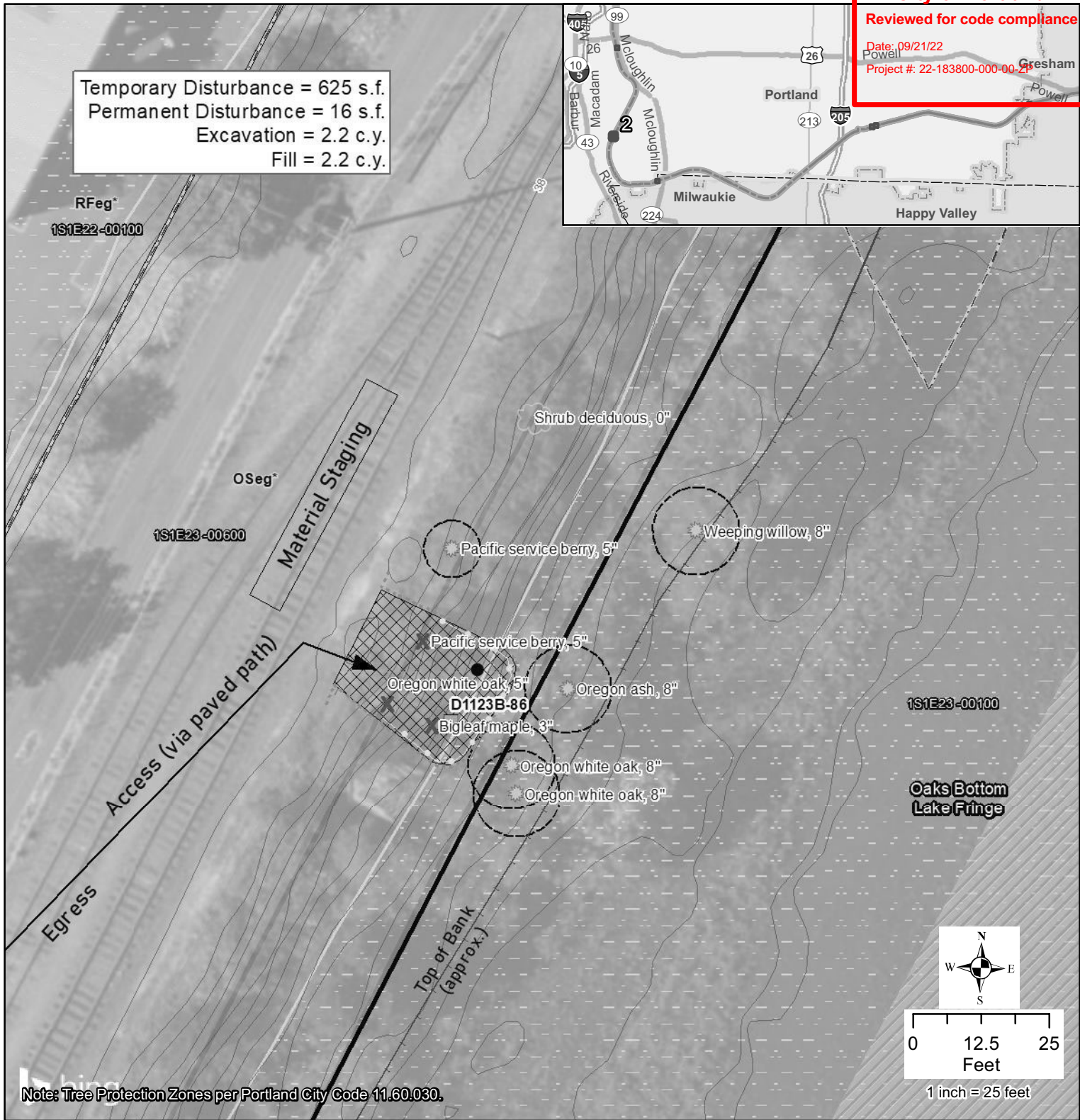
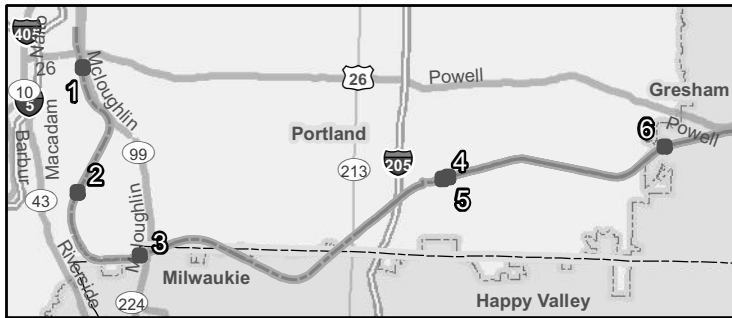


FIGURE 4a
Construction Management Map

PGE - Milliken Immediate Action
 Non-Exempt Tower Replacements
 City of Portland, Oregon

September 2022

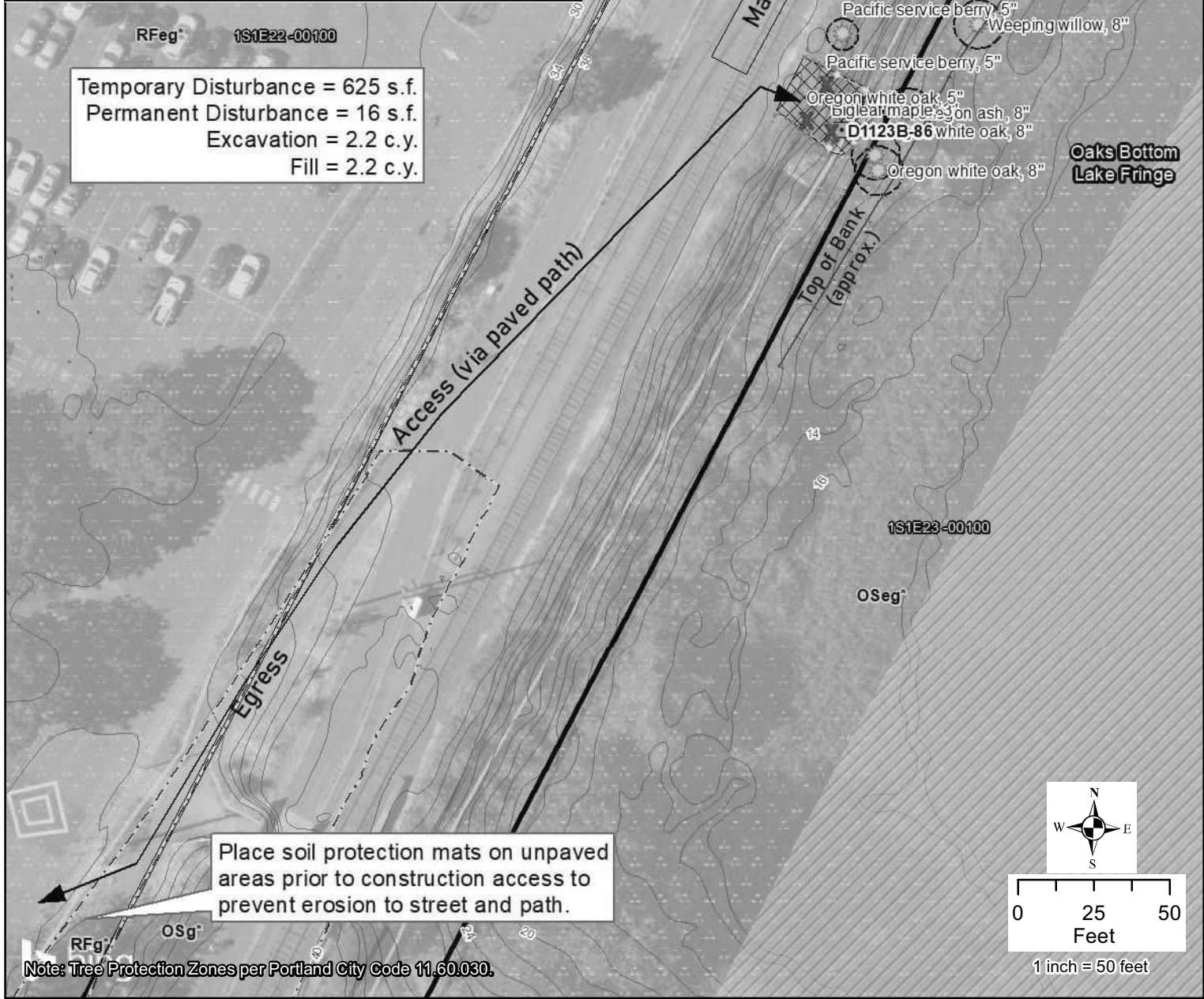


City of Portland

Reviewed for code compliance

Date: 09/21/22

Project #: 22-183800-000-00-ZP



Legend

Tax Lot

Zoning

Contour (2 ft)

Wetland/Water (NWI)

Existing Milliken Transmission Line

Immediate Action Tower

Proposed Monopole

Temporary Work Area (boundary to be marked)

1% Annual Chance Flood Zone (FEMA)

1996 Flood Inundation

Proposed Tree Removal

Preserved Tree

Erosion Control (straw wattle)

Root Protection Zone

Construction Fence

FIGURE 4b

Construction Management Map

PGE - Milliken Immediate Action Non-Exempt Tower Replacements
City of Portland, Oregon

September 2022

AECOM



Building Permit Application

City of Portland, Oregon - Bureau of Development Services

1900 SW 4th Avenue, Portland, Oregon 97201 • 503-823-7300 • TTY 503-823-6868 • www.portland.gov/bds

Required Fields Highlighted

Type of work (REQUIRED)

- ☐ New construction
 ☐ Addition
 ☐ Alteration
- ☐ Demolition
 ☒ Other: Maintenance

Category of construction (REQUIRED)

- ☐ Residential: 1 & 2 Family Dwellings
 ☐ Commercial: Apartments/Condos
 ☒ Commercial: Other
- ☐ Residential: Other
 ☐ Commercial: Business/Industrial

Job site information and location

Job Address: 45.47233°N, -122.660414°W (near SE Oaks Park Way and Springwater Trail)

City/State/ZIP: Portland, OR 97202

Suite/bldg./apt. no.: Project name: Milliken Immediate Action Tower Replacement Project

Tax map/parcel no. R# 1S1E23- 00600

Provide Land Use or associated Permit Number (if applicable)

Description of work (REQUIRED)

Replacement of PGE Milliken transmission line tower in Springwater Corridor

☒ Property owner or ☐ Tenant (REQUIRED)

Name: Metro Phone: 503.797.1545

Address: 600 NE Grand Ave.

City/State/ZIP: Portland, OR 97232

Email: parksandnature@oregonmetro.gov

Owner installation: This installation is being made on property that I own.

Owner signature: Date:

☐ Contractor

Business name: Michels Pacific Energy, Inc. Phone: 360.236.0472

Address: 9433 Dowcor Ln SW

City/State/ZIP: Tumwater, WA 98512

Email: dshotwell@michels.us

CCB lic. no. 235838

Authorized signature:

Print name: David Shotwell Date:

☒ Applicant or ☐ Contact Person (REQUIRED)

Business name: Portland General Electric Company

Contact name: Meredith Armstrong

Address: 121 SW Salmon St; 1 WTC 1302

City/State/ZIP: Portland, OR 97204

Phone: 503-464-2174

E-mail: Meredith.armstrong@pgn.com

Authorized signature: Meredith Armstrong

Digitally signed by Meredith Armstrong
Date: 2022.09.14 12:55:01 -07'00'

Print name: Meredith Armstrong

Date: 9-8-22

Office Use Only

OFFICE
USE ONLY

Required Data: One and Two Family Dwelling

Permit fees are based on the value of the work performed. Indicate the value (rounded to the nearest dollar) of all equipment, materials, labor, overhead, and the profit for the work indicated on this application.

| | |
|-------------------------|-------------|
| Valuation (REQUIRED): | NA |
| Number of bedrooms: | |
| Number of bathrooms: | |
| Total number of floors: | |
| New dwelling area: | square feet |
| Garage/carport area: | square feet |
| Covered porch area: | square feet |
| Deck area: | square feet |
| Other structure area: | square feet |

Required Data: Commercial Use

Permit fees* are based on the value of the work performed. Indicate the value (rounded to the nearest dollar) of all equipment, materials, labor, overhead, and the profit for the work indicated on this application.

| | |
|-------------------------|-------------|
| Valuation (REQUIRED): | 25,000 |
| Existing building area: | square feet |
| New building area: | square feet |
| Number of stories: | |
| Type of construction: | |
| Occupancy groups | |
| Existing: | |
| New: | |

Notice

Work related to this Building Permit may be subject to regulations governing the removal, handling, and/or disposal of asbestos and/or lead-based paint. For asbestos concerns, contact DEQ at 1-888-997-7888 For lead-base paint concerns, contact Oregon Health Authority at 971-673-0440.

All contractors and subcontractors are required to be licensed with the Oregon Construction Contractors Board under ORS 701 and may be required to be licensed in the jurisdiction in which work is being performed.

This permit application expires if a permit is not obtained within 180 days after it has been accepted as complete.

Disclaimer: By signing this application, the permit applicant acknowledges and agrees that they have obtained any required permission for the proposed work from the property owner. Refer to the policy of this jurisdiction if it discovers that a dispute regarding the proposed work exists between the applicant and the property owner or any other party with a legal interest in the property.



CITY OF
PORTLAND, OREGON
BUREAU OF DEVELOPMENT SERVICES
1900 SW 4th Ave, Suite 5000
Portland, OR 97201



ZONING PERMIT

22-183800-000-00-ZP

Site Address: SPRINGWATER CORRIDOR

Issued:

| PROJECT INFORMATION | | Occ. Group | Const. Type |
|---------------------|------------|------------|-------------|
| Exempt Structures | Commercial | | |

Project Description: SINGLE PDF - REPLACEMENT OF PGE MILLIKEN TRANSMISSION LINE TOWER IN SPRINGWATER CORRIDOR: D1123B-86 . EXEMPT FROM BUILDING PERMIT PER TITLE 24.

| | | | |
|-----------------------|---|--------|----------------|
| APPLICANT | PORTLAND GENERAL ELECTRIC COMPANY *MERED | Phone: | (503) 464-2174 |
| PROPERTY OWNER | METRO | Phone: | |
| CONTRACTOR | MICHEL'S PACIFIC ENERGY INC | Phone: | |

| Project Details | | Project Details | |
|---------------------------|----------|-----------------|--|
| Zoning Enforcement Agency | Portland | | |

This permit expires if, at any time, 180 days pass without an approved inspection. If you are not able to obtain an inspection approval within 180 days, you may request a one-time only extension of 180 days by calling 503-823-7891

| | |
|-----------------------|--|
| BEFORE YOU DIG | ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is 1-800-332-2344). |
|-----------------------|--|

| | |
|---------------------|---------------------|
| CITY CONTACT | Phone: |
| E-Mail: | Fax: (503) 823-4172 |

**INSPECTION REQUEST
PHONE NUMBERS**

Building/Trade Inspections - Call Before 6:00 AM: (503) 823-7000

TDD: (503) 823-6868

**IVR Inspection Request
Number: 4848213**

Milliken Immediate Action Tower Replacement Project - Tower D1123B-86
Portland General Electric Company
Zoning Permit Application - Supplemental Information

Project Description

Construction for Tower D1123B-86 will be completed in four steps: 1) install new steel monopole structure near the existing lattice tower it is replacing, 2) transfer wire from the old lattice tower to the new steel monopole, 3) demolish and remove the old lattice tower, and 4) restore ground and vegetation conditions within the work area. Tower replacement would be completed within 2-3 days and is scheduled for September 2022.

Construction equipment will likely involve the following: auger drill rig, bucket truck, digger derrick, boom truck, and pole trailer. The tower location will be accessed from Oaks Park and the railroad which would reduce impacts to the riparian corridor. Heavy equipment will largely operate from the paved or graveled area as well as an elevated platform from the railroad bed which would reduce ground disturbance. Once the new poles are placed, the material from the tower demolition will be placed within the designated disturbance area or on the pavement.

The new tower structure will be installed using the direct embed methods--an auger drill rig will be used to excavate a hole, and excavated soil will be temporarily stockpiled on the ground (or on a tarp or truck if soils are wet) next to the removal site, with topsoil separated from subsoil. Excess soil will be removed from the site for disposal. The new monopole will be placed 10 feet away from (and in-line with) the existing tower. The new pole will be directly embedded into the excavated hole, which would be backfilled with compacted gravel, concrete slurry, or structural concrete (depending on the soil conditions and structure design). The excavated hole will be 2 feet in diameter and up to 15 feet below ground. The permanent impact area and volume is 16 square feet and 2.2 cubic yards, respectively. The estimated maximum temporary impact area is 675 square feet; however, the contractor will minimize impacts so the actual disturbance area will likely be less.

The existing lattice structure has 4 steel legs that are directly embedded into the ground; the tower does not have concrete footings. Removal of tower footings will consist of hand digging to approximately 2 feet with hydraulic shears used to cut each leg. The remaining hole will be backfilled with stockpiled native soil from the new tower and seeded with a native upland or wetland seed mix. Any transmission structure material (steel, concrete, wires and fasteners) removed from the project corridor will be transported to a local landfill or PGE storage facility for disposal or recycling. An existing conditions map, development plan, and construction management plan are provided in Appendix A. PGE is working with the City to evaluate nearby mitigation options. A mitigation plan will be provided, as required, through coordination with Portland Parks and Recreation.

Orange construction fencing will be used to delineate the boundary of the temporary disturbance area. Only two regulated trees would need to be removed. These include one 5" DBH Oregon white oak (which is in poor condition) and one 3" DBH big leaf maple. One 5" DBH pacific serviceberry would need to be removed but it is listed as a "shrub" on the Portland Plant List and so does not meet the definition of a "tree" per City Code 11.80.020(B)(36)(I). However, it has been included on the plan set since it was identified in the Tree Protection Plan. Four native trees (replacement at 2:1 ratio) will be planted within the temporary disturbance area after construction to meet City code requirements. Mitigation will be performed to offset impacts within the temporary disturbance area, as required in Section 33.465.180.

Erosion control devices (e.g., straw wattles) will be placed around the temporary disturbance area, as needed, to prevent the potential release of sediments or sediment-laden water into the adjacent wetland. Additional stormwater management measures may include covering any soils removed from the site with a tarp prior to disposal and avoiding work during heavy rain events. Composite construction matting or other temporary measures will be used to protect vegetation at entrance points along the access route or Springwater Corridor. Any impacted vegetation will be immediately restored to existing conditions following tower replacement.

PGE will comply with the following mitigation measures specified in Section 33.248.090, as required:

- Plant materials will be native and selected from the Portland Plant List. They will be non-clonal in origin, seed source must be as local as possible, and plants will be nursery propagated unless transplanted from on-site areas approved for disturbance. Plant materials are to be used for restoration purposes. Standard nursery practices for growing landscape plants, such as use of pesticides, fungicides or fertilizers, and the staking of trees will not be employed.
- Plants listed on the Nuisance Plants List will not be planted in the mitigation area and will not be counted as existing vegetation.
- The mitigation area will be cleared of groundcovers and shrubs listed on the Nuisance Plants List. Trees listed on the Nuisance Plants List will be removed from the mitigation area.
- Plant materials will be supported only when necessary due to extreme winds at the planting site. Where support is necessary, stakes, guy wires or other measures will be removed as soon as the plant can support itself.
- New plantings will be manually watered regularly during the first growing season. During later seasons, watering will be done as needed to ensure survival of the plants.
- Monitoring of landscape areas will be the ongoing responsibility of PGE on behalf of the property owner (City of Portland). Plants that die will be replaced in kind. Written proof that all specifications of this section have been met will be provided one year after the planting is completed. The property owner will provide this documentation to BDS.

Trees and shrubs smaller than 3" DBH may be trimmed around each replacement structure to create a clear zone for construction equipment to access and perform the work. Vegetation trimming will be confined to the smallest portion of the project area necessary for completion of the work. Vegetation will be cut to the base and allowed to regrow following construction. It should be noted that all woody vegetation growing within the existing transmission corridor is periodically trimmed to prevent interference with transmission wires and poles.