

How to Best Prep for Your (Telecom) Project

Researching What's Under City Streets

Presenters

Geoffrey Brown - *Seattle Public Utilities (SPU)*, Engineering Records Center

Joe Martek - *Seattle City Light (SCL)*, Transmission, Network & Electric Service Engineering

Craig Moore - *Seattle Dept of Transportation (SDOT)*, Street Use Division, Data & GIS

Patty Jenkins - *SDOT*, Street Use Division, Utility Major Permits, Landslide & Shoring

(Moderator) **Alice Lawson** - *Seattle IT*, Digital Equity Program, Wireless Affairs Advisor

Seattle Public Utilities (SPU) Resources

Geoffrey Brown

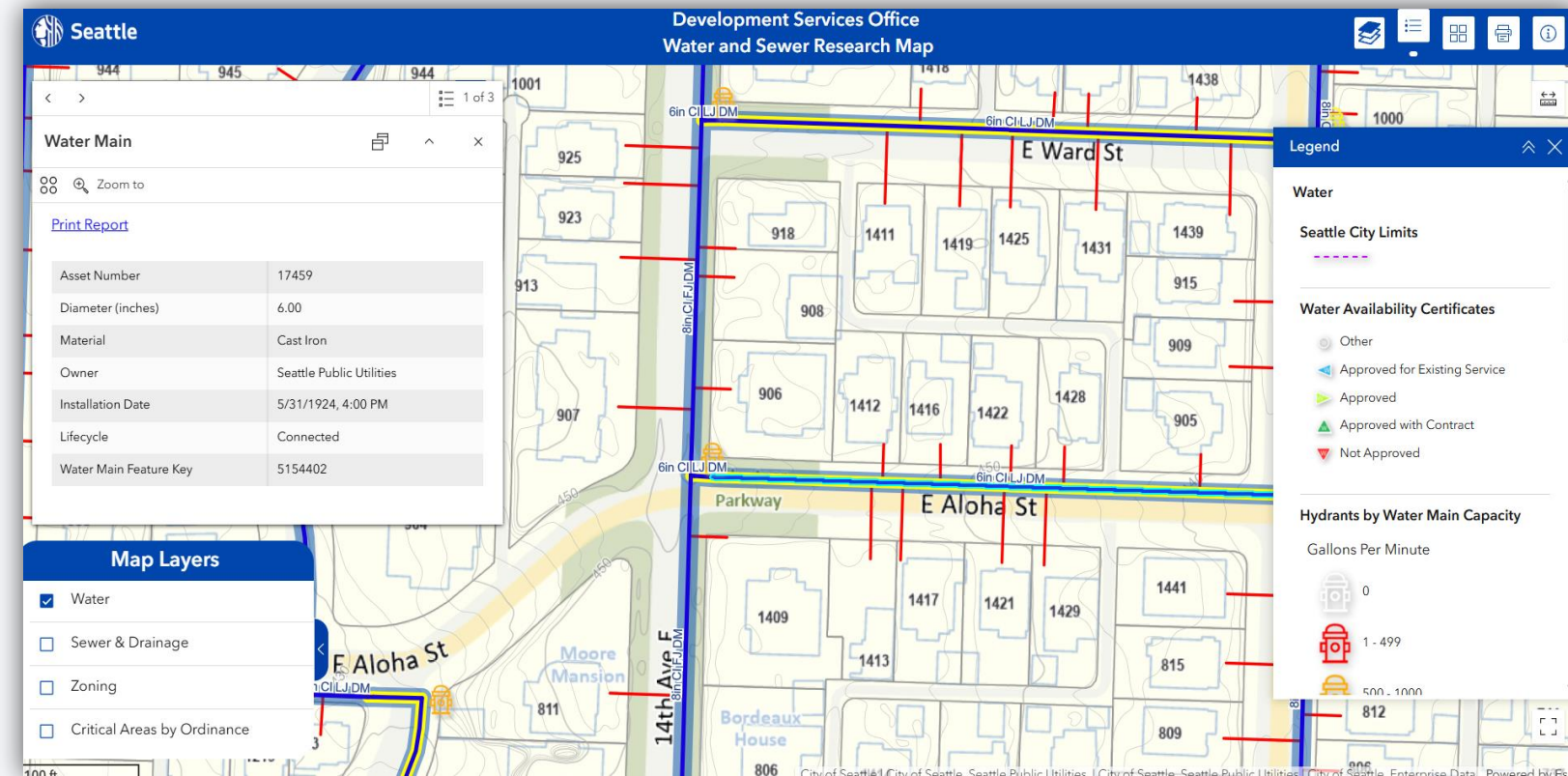
Engineering Records Center (Records Vault Manager)

SPU Engineering Records Center (The Vault)

- We have over 400,000 records and pages digitized in our cloud-based repository, Seattle Digital Infrastructure Records (SeaDIR)
- In person access: Monday through Thursday, 8 AM to 3:30 PM
- Access information, tutorials and more on our public website <https://www.seattle.gov/utilities/construction-resources/records-vault>
- Research Assistance: email SeaDIRSupport@seattle.gov



SPU Developer Services Office (DSO) Map



- Depicts the location, diameter and material of:
 - Water mains below 12" in diameter
 - Water services/meter locations
 - Sewer mains
 - Side sewers
- Best known locations, not survey grade information
- Some water services are mapped schematically

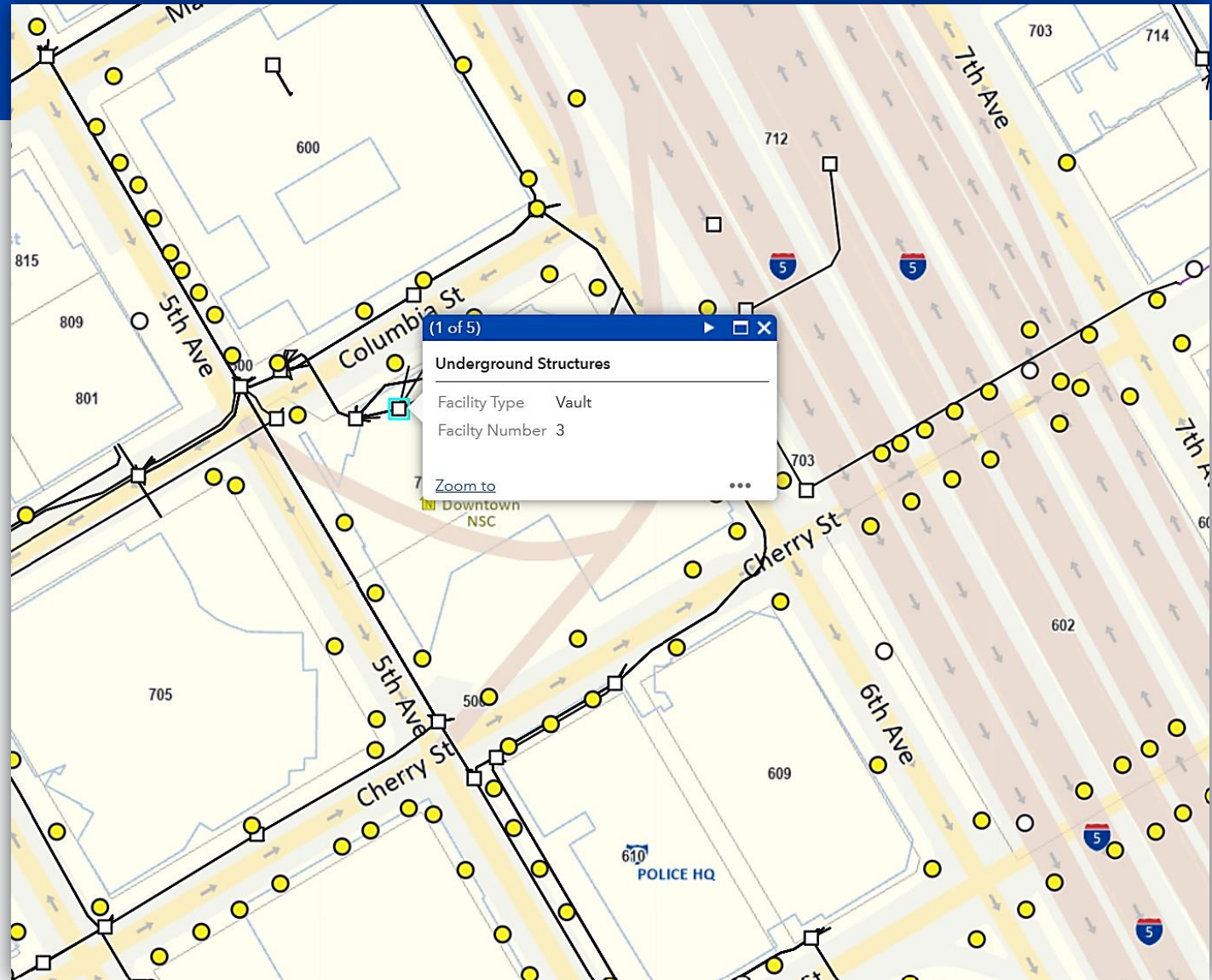
Access via this address/link: <https://www.seattle.gov/utilities/construction-resources/water-and-sewer-map>

Seattle City Light (SCL)

Joe Martek

Interim Sr. Manager - Transmission, Network & Electric Service Engineering

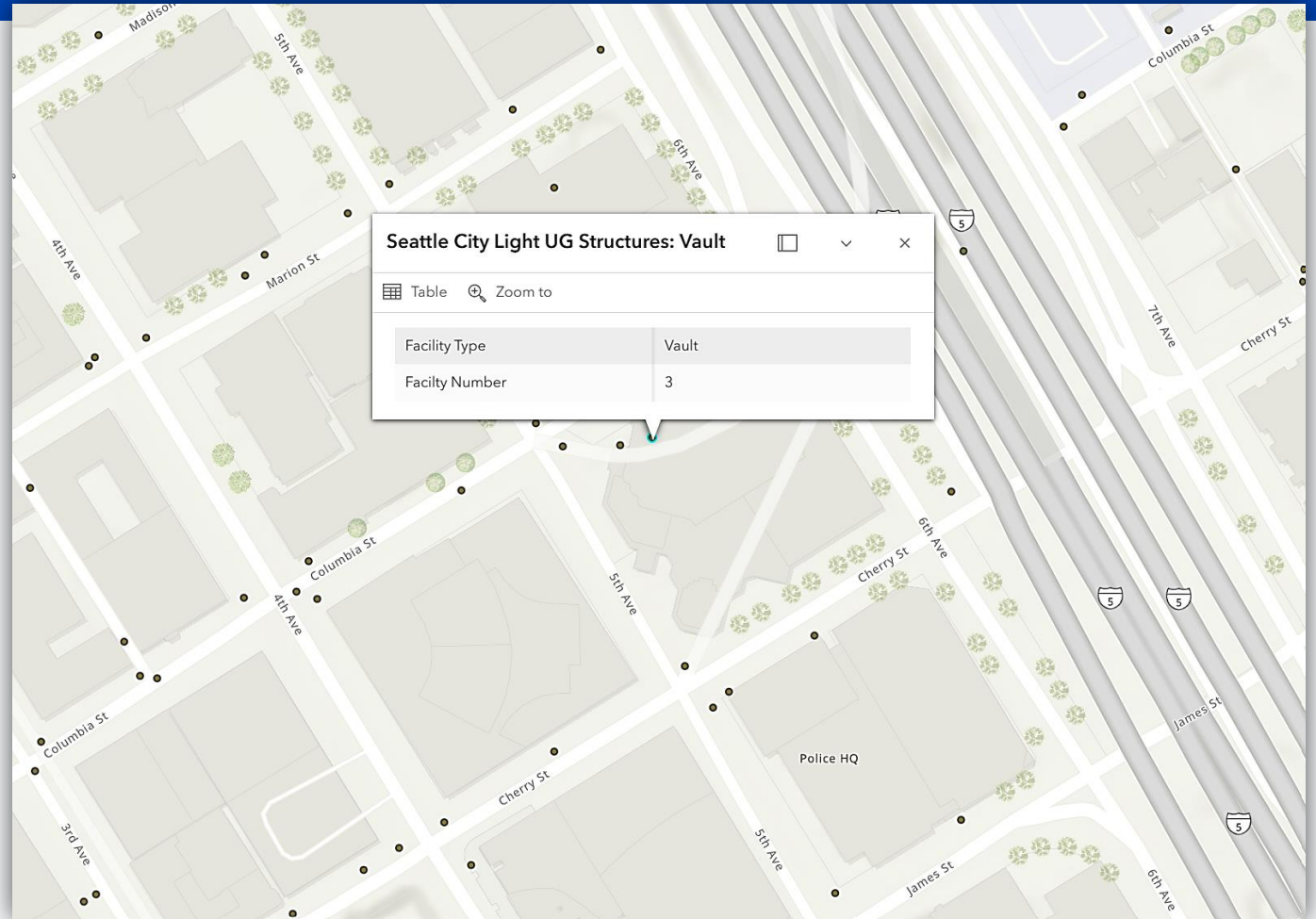
SCL Electrical System



SCL ArcGIS viewer for Electrical System:

<https://seattlecitygis.maps.arcgis.com/apps/MapSeries/index.html?appid=24bdb8181b2848ec9ee2cf92723c0319>

SCL Underground Structures

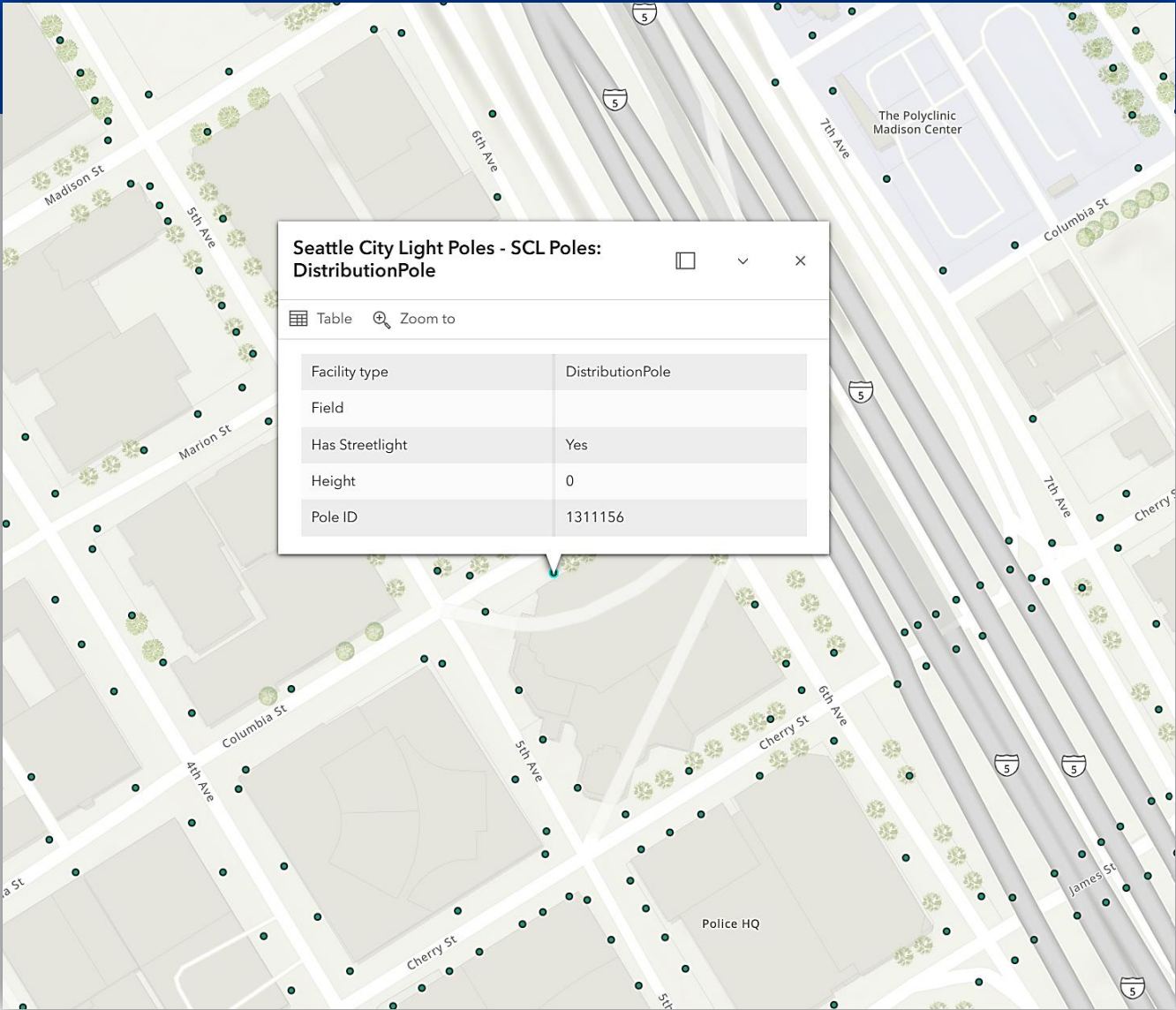


SCL ArcGIS for Underground Structures:

https://services.arcgis.com/ZOyb2t4B0UYuYNYH/arcgis/rest/services/Seattle_City_Light_UG_Structures/FeatureServer

<https://data-seattlecitygis.opendata.arcgis.com/datasets/seattle-city-light-ug-structures/about>

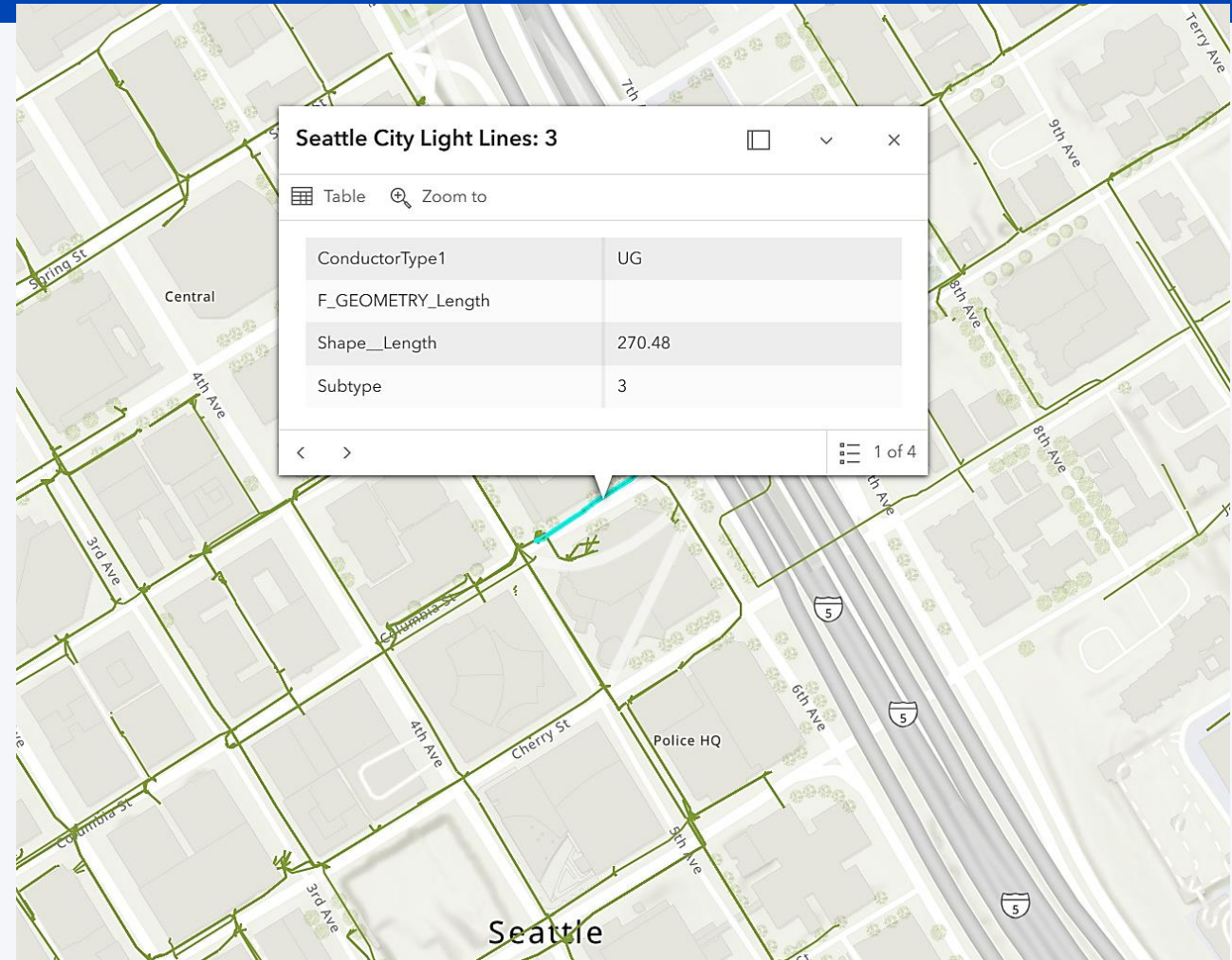
SCL Pole Information



SCL ArcGIS viewer for Poles:

https://services.arcgis.com/ZOyb2t4B0UYuYNYH/arcgis/rest/services/Seattle_City_Light_Poles/FeatureServer

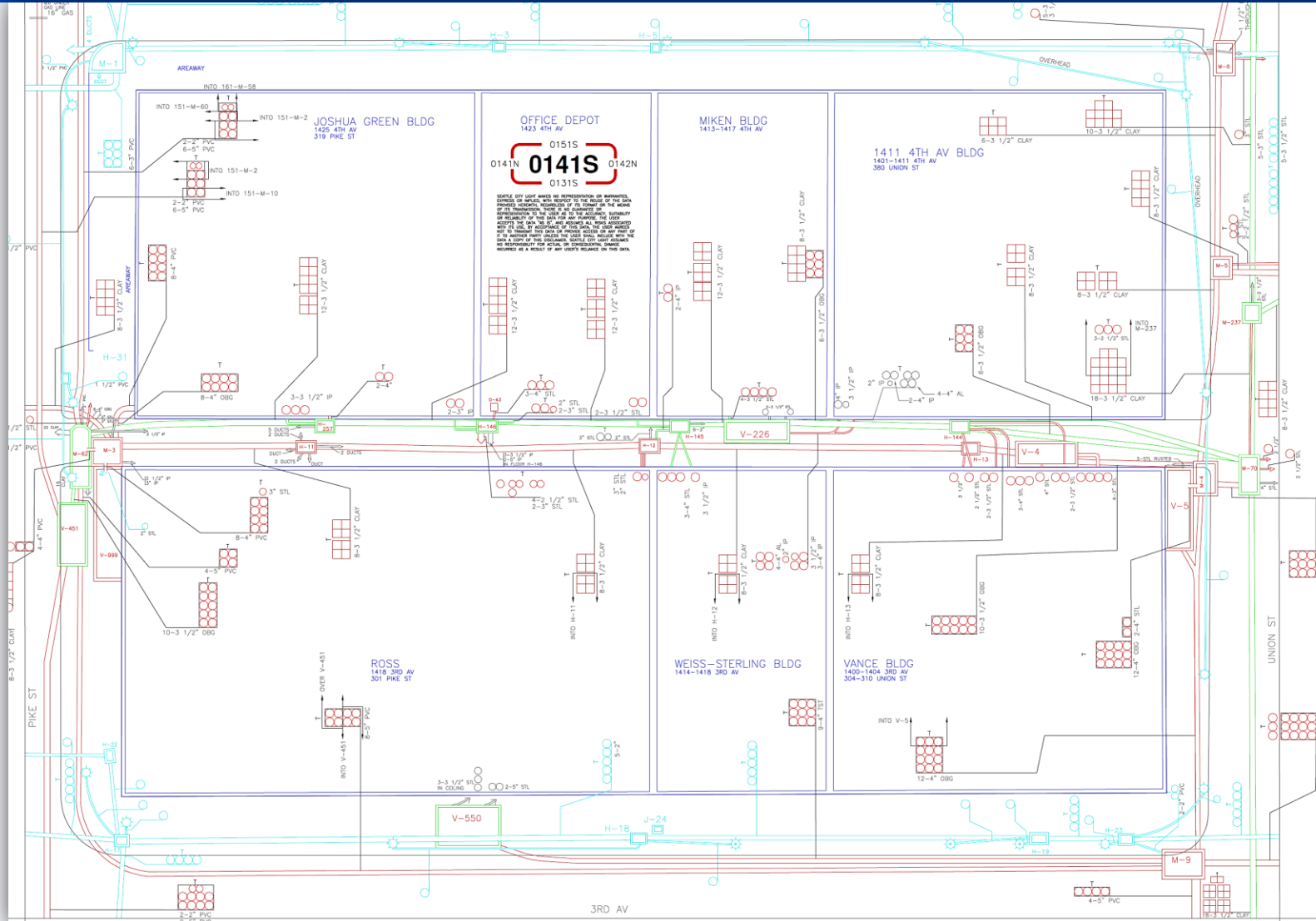
SCL Overhead and Underground Lines



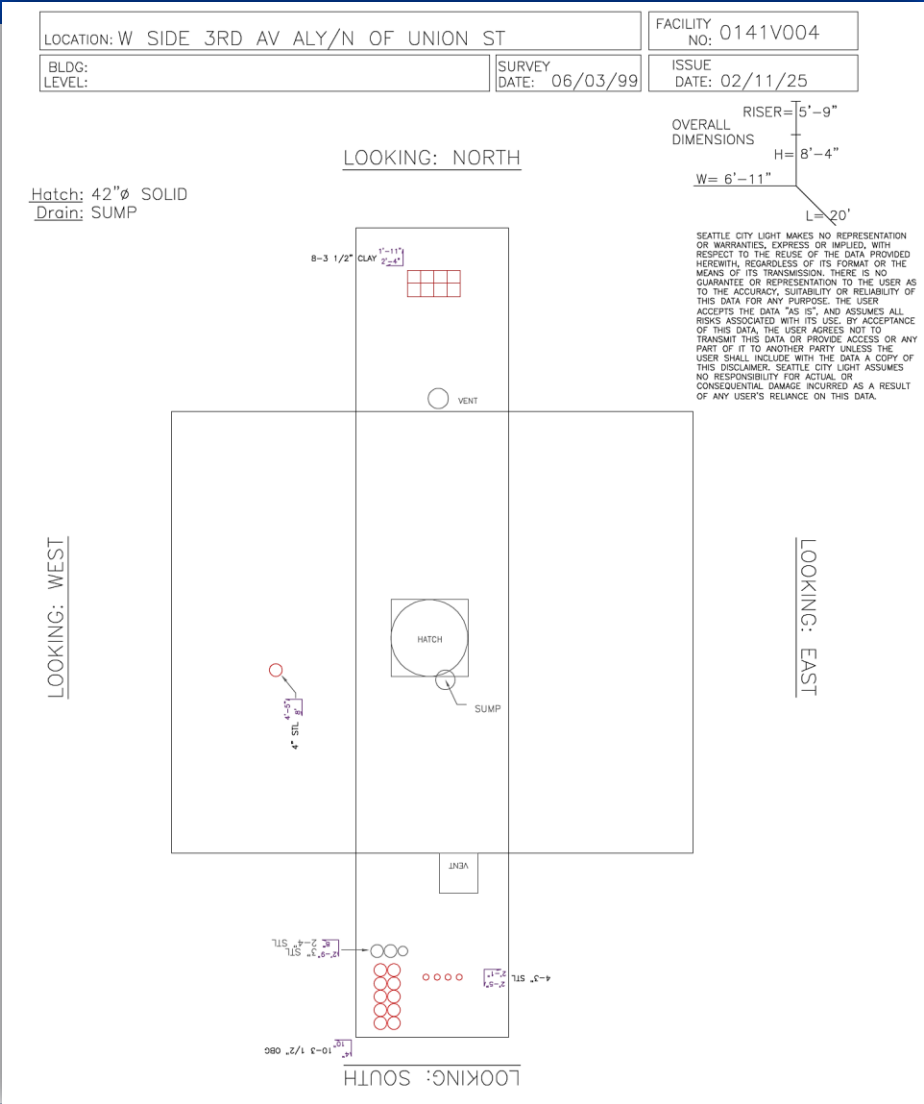
SCL Arc GIS for overhead and underground lines:

https://services.arcgis.com/ZOyb2t4B0UYuYNYH/arcgis/rest/services/Seattle_City_Light_Lines/FeatureServer

SCL Network Scrubbed Block Map



SCL Network Scrubbed Facility Butterfly



SCL - General Information

- SCL Standards
 - <https://web8.seattle.gov/city-light-engineering-standards/BrowseAll>
 - [0214.00](#) - Clearances Between SCL Underground Assets and Non-SCL Structures and Objects
- SCL Recommends
 - Call 811 Before you dig
 - Get locates and surveys to verify information
 - Potholing to verify locations of infrastructure
- Submit an application for SCL work or new service
 - <https://www.seattle.gov/city-light/construction-services/apply-for-new-or-upgraded-service>

Seattle Dept of Transportation (SDOT)

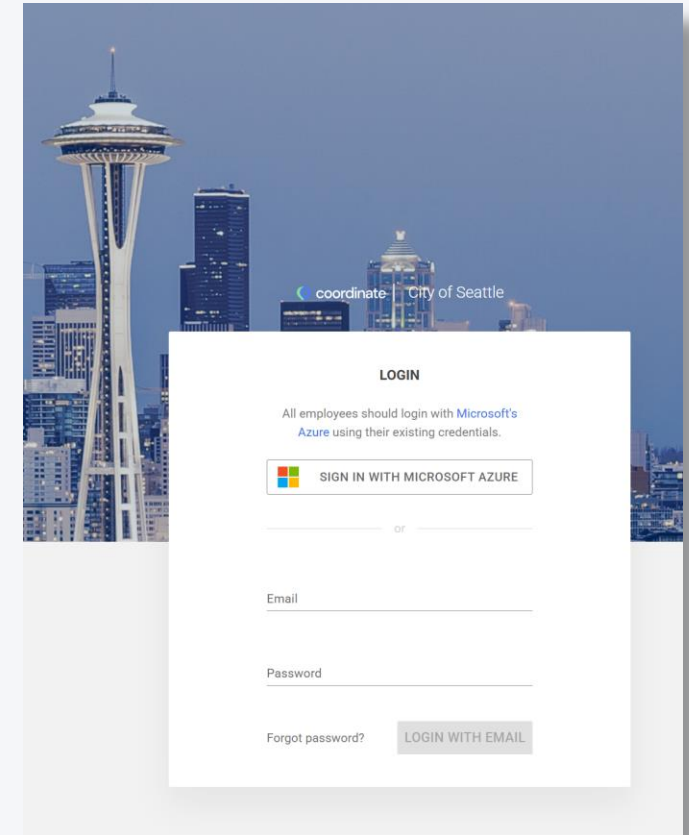
Craig Moore

Street Use Division, Data & GIS Team Manager



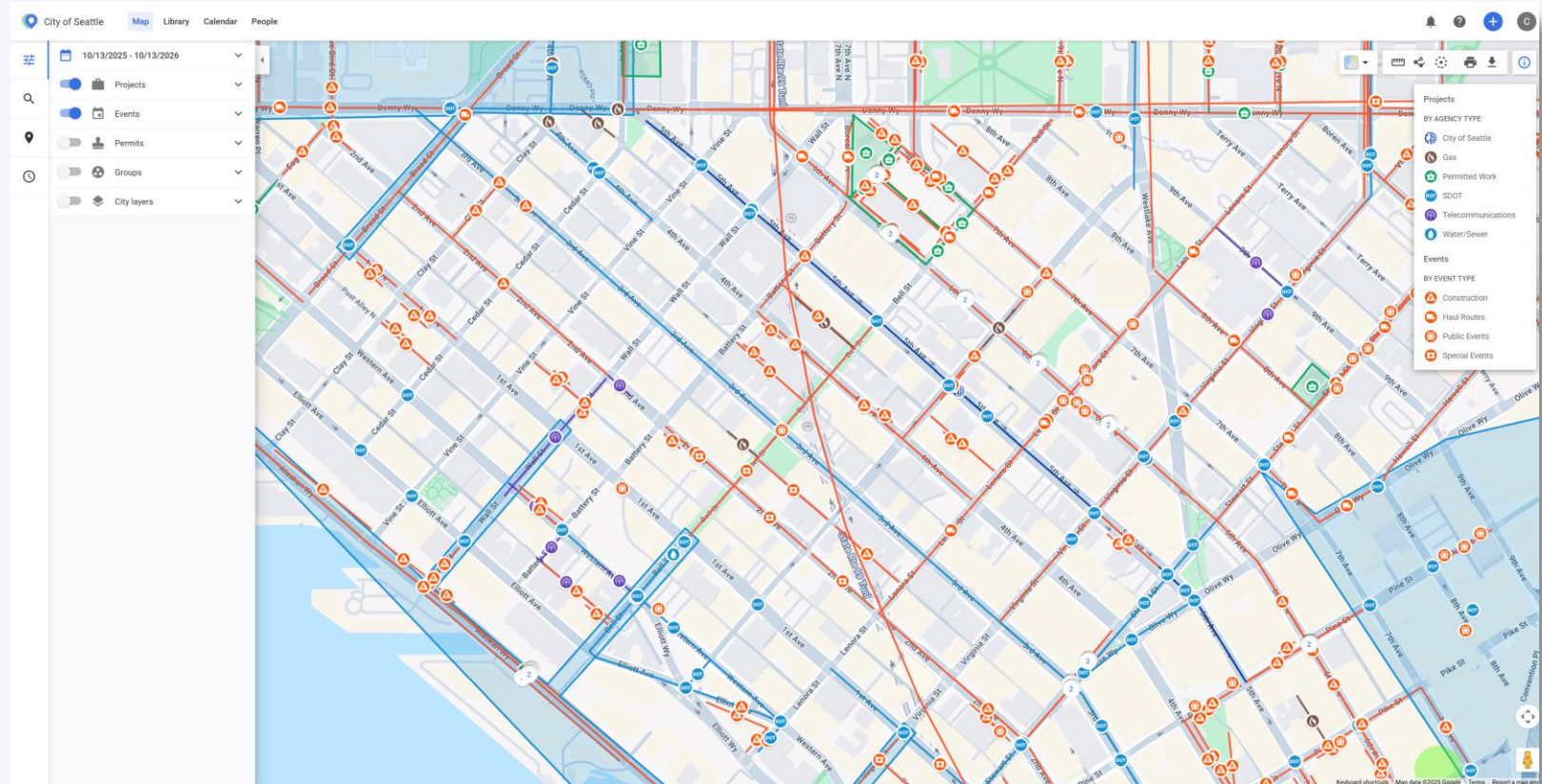
SDOT - Coordinate / dotMaps

- Each agency controls their own access and data.
- Access with a web browser here:
<https://seattle.dotmapsapp.com/login/>
- Projects are required to be entered into Coordinate prior to applying for a SDOT permit.
- All agencies doing work in the ROW in Seattle enter their projects into Coordinate.
- SDOT *Construction Coordination and Mobility Management* team enters specifics about permitted work as Construction Events.
- Primary function is to coordinate work between overlapping projects through conflicts management.



Coordinate Use

- Filters and Search on the left
 - City layers (pavement moratoriums, Hub boundaries, vending spaces, etc.) are in the filters
- Legend on the right
- Map tools just above the legend
- In application help at  links to Knowledge Center
- Map shows one rolling year as the default time filter



Conflict Management in Coordinate

- Coordinate generates Conflicts where two project overlap in space and time.
- Each side must submit/agree to a resolution to Resolve a conflict.
- Coordinate generates Opportunities where two project overlap in space but not time.
- Opportunities are potential instances for sharing excavation, restoration, or construction of ADA curb ramps.

 ID 67281 

3rd & Yesler Transit Improvements

Agency:  SDOT Capital and Structures Divisions

9/4/2024–5/30/2025 •  • 268 days

Open SDOT Transit and Mobility and SDOT Capital and Structures Divisions will both need to resolve the conflict.

[RESOLVE](#)

Activity

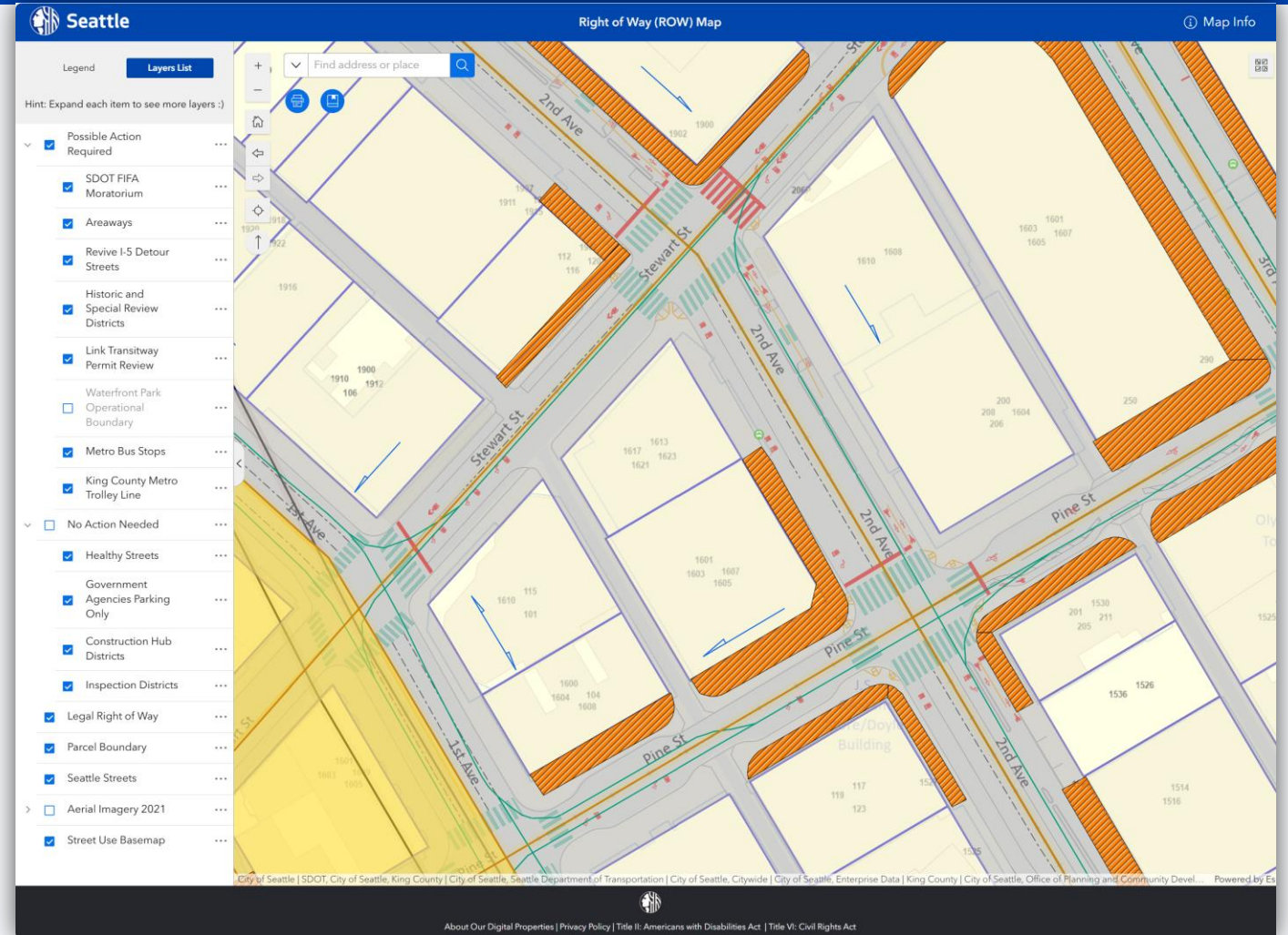
Show: All Comments Resolutions



No activity to show.

SDOT Public ROW Map

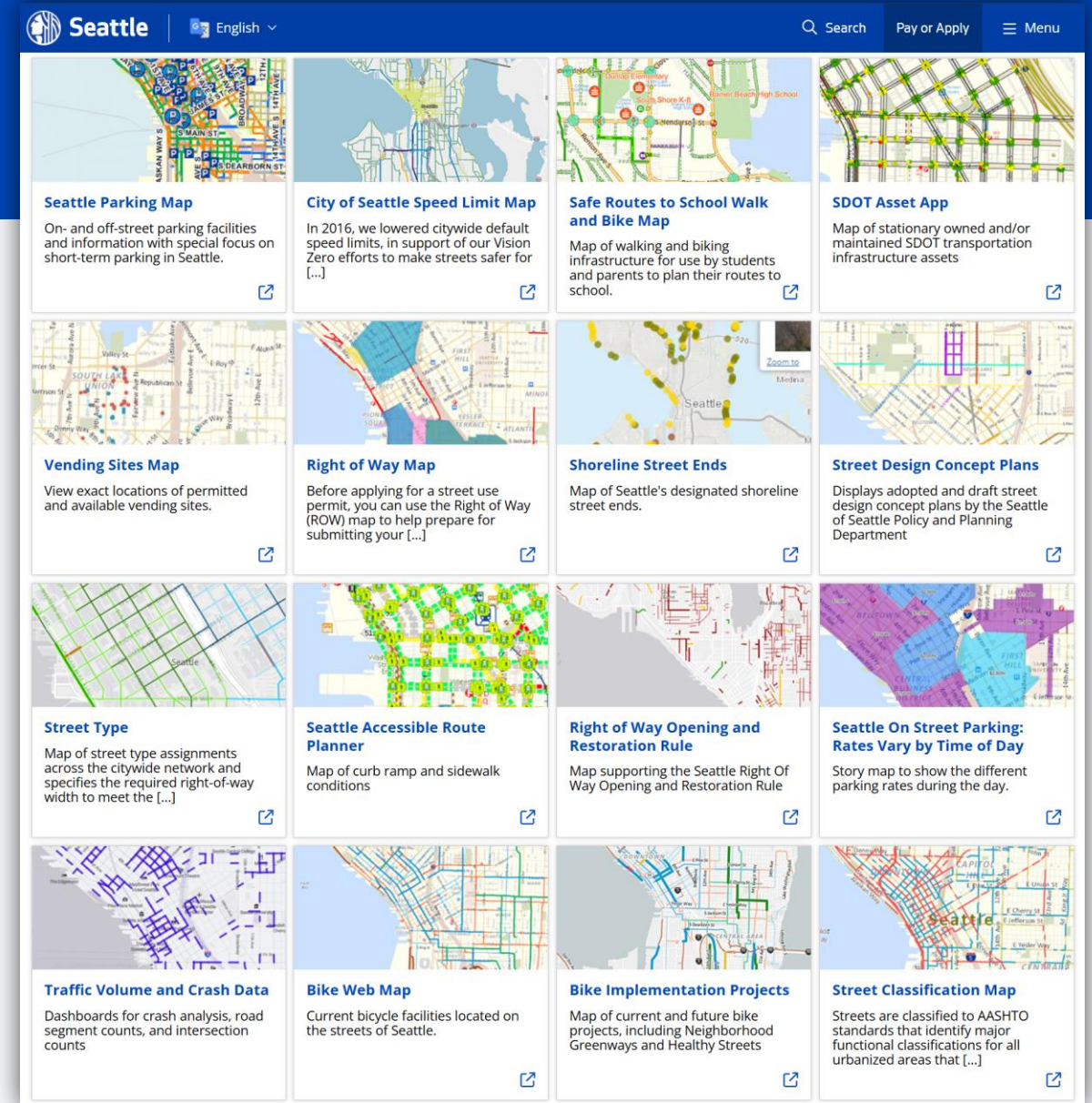
- Focused on permit application needs.
- Identifies locations where additional action beyond the SDOT permit is or could be required.



<https://experience.arcgis.com/experience/9bb9716b94d04f44aacade6a755464a6/page/Page-1?views=Layers-List>

SDOT Interactive Maps Web Page

- SDOT Asset Map
 - Locate all types of SDOT assets
- Right of Way Opening and Restoration Rule
 - Find failed streets and pavement moratoriums
- Traffic Control Plans Map
 - Base map for traffic control plans
- Compliant Curb Ramps
 - Find ADA compliant curb ramp
- Many more maps...



<https://www.seattle.gov/transportation/permits-and-services/interactive-maps>

Seattle Dept of Transportation (SDOT)

Patty Jenkins

Street Use Division, Utility Major Projects Team Manager



SDOT - Utility Work in the ROW

Step 1: Determine what utility permit is right for your work

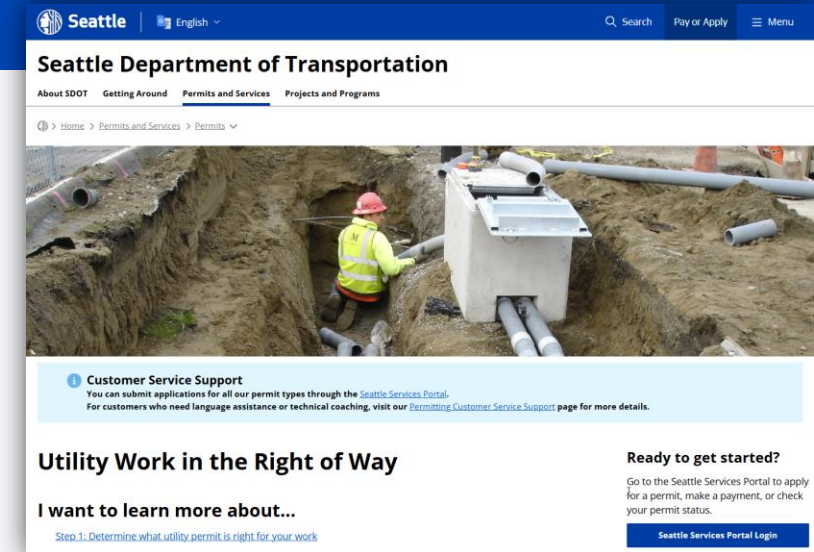
- Two types of Street Use Utility permits available:
 - Minor Utility Permit (SUUTIL)
 - Utility Major Permit (SUUMP)
 - Permits type differentiated by project's complexity and how the work will impact the ROW.

Street Use Minor Utility permits (SUUTIL) cover *non-complex* work in smaller geographic areas. Work permitted under a Minor Utility permit includes:

- Geographic work limited in scope to a two-block radius
- No ground disturbance - aerial work only
- Short single service installations, maintenance, or repair of utility lines (Gas, Water, Power, Telecom, etc.)
- Exploratory/potholing/monitoring wells etc.
- Pole installation, replacement, removal and pole attachments
- Side Sewer /Drainage work approved by the Seattle Department of Construction and Inspections (SDCI)

Note: You may now apply for your SDOT Side Sewer permit at any time or request it at time you apply for your SDCI Side Sewer permit. Instructions on how to apply for a SDOT Side Sewer permit can be found at

<https://seattlegov.zendesk.com/hc/en-us/articles/360059441134-How-Do-I-Apply-for-a-Street-Use-Side-Sewer-Permit>



<https://www.seattle.gov/transportation/permits-and-services/permits/utility-work-in-the-right-of-way>

SDOT - Utility Work in the ROW

Street Use Utility Major Permits (SUUMP) covers more complex projects or work that covers a larger than a one-block radius geographic area. If your project meets one or more of the following thresholds, you will need to apply for a Utility Major Permit:

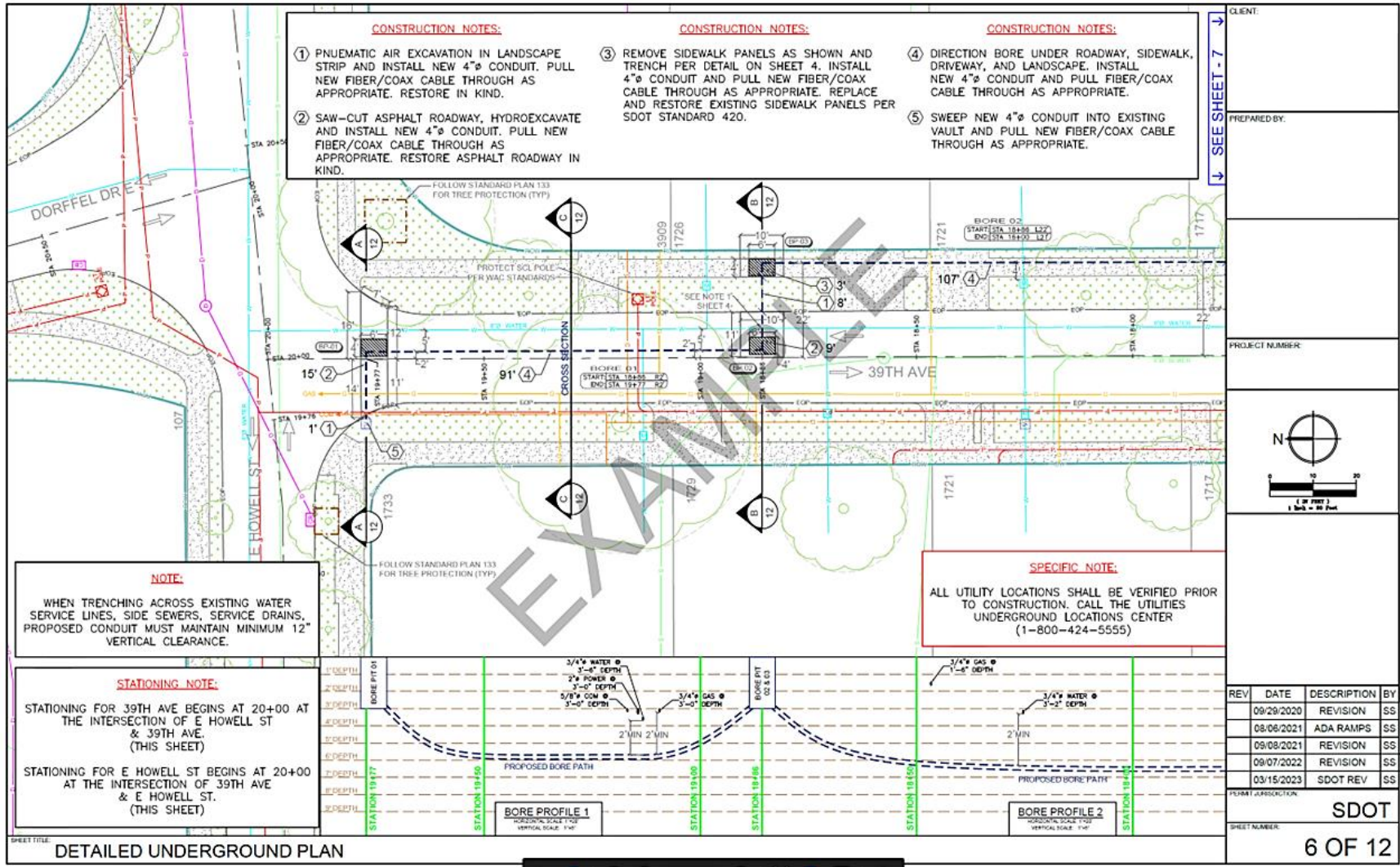
- Geographic work larger than a one-block radius
- Any project that contains complex technical issues* (e.g. deep excavations) that may have an impact to existing city assets and/or infrastructure
- Installation of gas mainlines greater than 2-inches in diameter
- Installation of a utility line longer than 100 linear feet on a non-arterial or arterial street including alleys
- Exception: Installation of a utility line up to 300 lineal feet on a non-arterial street or alley in a single family or low-rise zone can be permitted under a Minor Utility permit.
- Removal of underground storage tank
- Environmental remediation work or removal of contaminated soils
- Work that triggers ADA curb ramp installation due to utility work (e.g. utility and telecom pole removal/installation at intersections)
- Directional or horizontal boring method of installation

*SDOT may require an UMP beyond the thresholds outlined above in consideration of complexity of the work including proximity to existing infrastructure or assets.



Best Practices - Site Plans

- Example Site Plan 1



- Example Site Plan 2

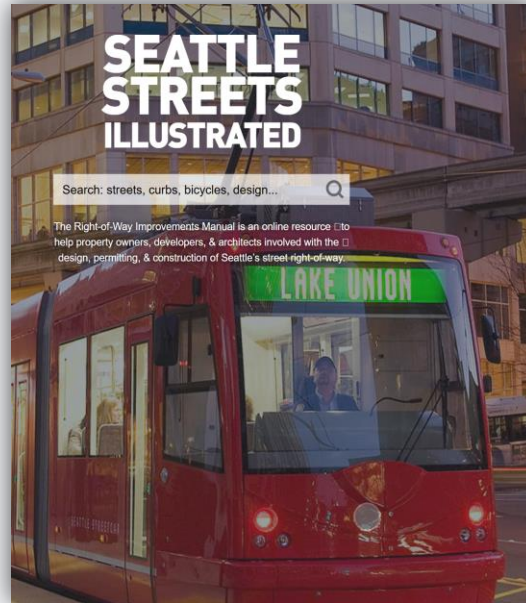


City of Seattle

Resources

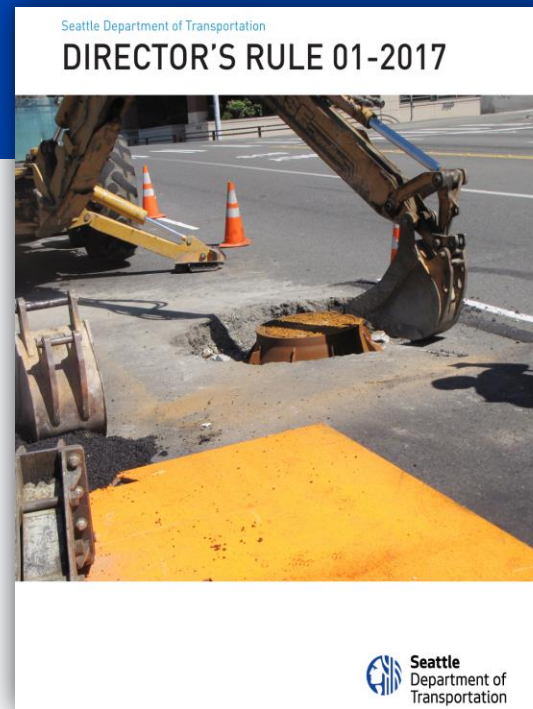
- Right of Way Restoration Rule

- Streets Illustrated



<http://streetsillustrated.seattle.gov/>

- **UMP Coaching Available.** Contact SDOT Applicant Services. They will schedule a meeting if no permit of record (<https://www.seattle.gov/transportation/permits-and-services/permits/permitting-customer-service-support>)



https://www.seattle.gov/documents/Departments/SDOT/About/DocumentLibrary/ROWORR_Manual.pdf

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- **Questions**

Thank You

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Joe Martek, SCL, Transmission, Network & Electric Service Engineering

Craig Moore, SDOT, Street Use Division, Data & GIS

Patty Jenkins, SDOT, Street Use Division, Utility Major Permits, Landslide & Shoring

Training Recording Link will be made available by 10/17/2025.

Send Questions to www.seattle.gov/wireless