

**HAZARDOUS MATERIALS ANALYSIS REPORT  
EAST MARGINAL WAY CORRIDOR DESIGN IMPROVEMENT PROJECT  
SEATTLE, WASHINGTON**

HWA Project No. 2019-087-21

May 26, 2020

Prepared for:

WSP USA Inc.





**GEOSCIENCES INC.**  
DBE/MWBE

May 26, 2020  
HWA Project No. 2019-087-21

**WSP USA Inc.**  
999 Third Avenue, Suite 3200  
Seattle, Washington 98104

Attention: Yee-Fan Riu, P.E. and Tara Olsen, P.E.

Subject: **HAZARDOUS MATERIALS ANALYSIS REPORT**  
**East Marginal Way Corridor Design Improvements Project**  
**Seattle, Washington**

Dear Ms. Riu and Ms. Olsen:

Per the request of WSP USA Inc., attached is our revised Hazardous Materials Analysis report for the proposed East Marginal Way Corridor Design Improvements Project in Seattle, Washington. This revised report includes the results of our regulatory and historical documentation review, and site reconnaissance of the proposed improvements along Alaskan Way South and East Marginal Way South including additional corridor area extending south of Diagonal Avenue South to the vicinity of South Alaskan Street.

We appreciate the opportunity to provide environmental consulting services on this project. Please call if you have any questions or comments concerning this report, or if we may be of further service.

Sincerely,

**HWA GEOSCIENCES INC.**

A handwritten signature in blue ink, appearing to read 'Nicole Kapise'.

Nicole Kapise  
Senior Environmental Geologist



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## ACRONYMS AND ABBREVIATIONS

<b>AST</b>	Aboveground Storage Tank
<b>ASTM</b>	American Society for Testing Materials
<b>AWV</b>	Alaskan Way Viaduct
<b>bgs</b>	Below Ground Surface
<b>BMP</b>	Best Management Practice
<b>BTEX</b>	Benzene, Toluene, Ethylbenzene, and Xylenes
<b>CERCLA</b>	Comprehensive Environmental Response, Compensation, and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>CMMP</b>	Contaminated Media Management Plan
<b>COC</b>	Contaminant of Concern
<b>cPAHs</b>	Carcinogenic Polycyclic Aromatic Hydrocarbons
<b>CSCSL</b>	Confirmed and Suspected Contaminated Sites List
<b>CSD</b>	Cleanup Site Detail
<b>Ecology</b>	Washington State Department of Ecology
<b>EDR</b>	Environmental Data Resources, Inc.
<b>EPA</b>	U.S. Environmental Protection Agency
<b>ERNS</b>	Emergency Response Notification System
<b>ESA</b>	Environmental Site Assessment
<b>GSP</b>	General Special Provisions
<b>HASP</b>	Health and Safety Plan
<b>HazMat</b>	Hazardous Materials
<b>HWA</b>	HWA GeoSciences Inc.
<b>ICR</b>	Independent Cleanup Report
<b>LDW</b>	Lower Duwamish Waterway
<b>LUST</b>	Leaking Underground Storage Tank
<b>mg/kg</b>	Milligram per Kilogram
<b>MTCA</b>	Model Toxics Control Act
<b>NFA</b>	No Further Action

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<b>NPL</b>	National Priorities List
<b>PAHs</b>	Polycyclic Aromatic Hydrocarbons
<b>PCB</b>	Polychlorinated Biphenyl
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>ROW</b>	Right-of-Way
<b>SEMS</b>	Superfund Enterprise Management System
<b>SDOT</b>	Seattle Department of Transportation
<b>SEMS</b>	Superfund Enterprise Management System
<b>SHA</b>	Site Hazard Assessment
<b>SHWS</b>	State Hazardous Waste Site
<b>SPCC</b>	Spill Prevention Control and Countermeasures
<b>SWPPP</b>	Stormwater Pollution Prevention Plan
<b>TCE</b>	Trichloroethylene
<b>TPH</b>	Total Petroleum Hydrocarbons
<b>TPH-Dx</b>	Diesel-Range Total Petroleum Hydrocarbons
<b>TPH-Gx</b>	Gasoline-Range Total Petroleum Hydrocarbons
<b>TPH-O</b>	Oil-Range Total Petroleum Hydrocarbons
<b>µg/L</b>	Micrograms per Liter
<b>USGS</b>	U.S. Geological Survey
<b>UST</b>	Underground Storage Tank
<b>VE</b>	Vapor Extraction
<b>VOC</b>	Volatile Organic Compound
<b>WAC</b>	Washington Administrative Code
<b>WSDOT</b>	Washington State Department of Transportation
<b>WSP</b>	WSP USA Inc.

## **EXECUTIVE SUMMARY**

HWA GeoSciences Inc. (HWA) has completed this Hazardous Materials Analysis Report (HazMat Report) for WSP USA Inc. (WSP), on behalf of Seattle Department of Transportation (SDOT), for the planned East Marginal Way Corridor Design Improvements Project (East Marginal Way Project). For purposes of this report, “hazardous materials” means hazardous substances, hazardous wastes, and contaminated soil and/or ground water.

The purpose of the HazMat Report is to assess the potential for adverse environmental impacts to the planned project from current or historical property uses in the vicinity of the project area, and to provide potential mitigation measures for those impacts.

### **Project Purpose**

The focus of the HazMat Report was to research existing information available through state and federal environmental regulatory databases and historical documentation to identify properties within and adjacent to the project area with a history of, or potential for, hazardous materials to be present, that could affect the East Marginal Way Project during project design and construction, or result in environmental liability associated with potential property purchase. HWA contracted with Environmental Data Resources (EDR) for a regulatory database search within an eighth of a mile to a mile radius (based on type of regulatory database listing, Washington State Department of Transportation (WSDOT) guidance, and American Society for Testing Materials [ASTM] standards) surrounding the project area corridor. In addition, historical documentation consisting of historical aerial photographs, historical topographic maps, Sanborn fire insurance maps, and reverse city directories were also provided by EDR for the project corridor. A reconnaissance project area, conducted from public rights-of-way or publicly accessible properties, was also completed to identify areas of potential concern.

### **Project Description**

Our understanding of the project scope and status was based on information provided by WSP. The East Marginal Way Project will consist of right-of-way and streetscape improvements within an approximately two-mile roadway corridor that extends along Alaskan Way South and East Marginal Way South from the vicinity of South Atlantic Street to approximately 200 feet south of South Alaska Street (herein referred to as the Project Area). The project is broken up into 3 segments and is expected to be constructed in two projects, the first being the North Segment Phase 1 and the second being North Segment Phase 2 and Central Segment. Phase 1 improvements include construction of a protected bicycle facility between South Spokane Street and South Atlantic Street, a new traffic signal at South Horton Street, adjustment to traffic signals at South Atlantic and South Spokane Streets, realignment of BNSF Railway (BNSF) industry service tracks and rebuild of the existing traffic signal at South Hanford Street, and

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associated improvements. The goal of the project is full separation of bicycle and truck traffic on East Marginal Way, including at traffic signals.

Phase 2 improvements include reconstruction of East Marginal Way to Heavy Haul pavement standards between approximately South Spokane Street and South Massachusetts Street, construction of new curb and sidewalk, drainage collection and conveyance systems, water quality treatment facilities, flow control facilities, updates to utility infrastructure and replacement of the existing water main for most of the project area. The Central segment is the area between South Spokane Street and approximately 200 feet south of South Alaska Street. In this segment, the focus is on multimodal safety and connectivity. Desired improvements include improved walking and bicycling facilities between South Spokane Street and Duwamish Avenue South, a multi-use trail on the west side of East Marginal Way between Duwamish Avenue South and Diagonal Avenue South, and changes to driveways, Union Pacific Railroad's (UPRR's) industrial service track, and overall circulation as needed.

## **Affected Environment**

Based on our data collection, field reconnaissance, and evaluation activities, evidence of potential hazardous materials conditions potentially impacting the soil and/or ground water of the Project Area were identified. These conditions include:

- **Contaminated Sites:** Approximately 1,000 regulatory-listed properties were identified on multiple regulatory databases. Of these, the vast majority were considered to be no impact properties and were eliminated from further consideration. The remaining 30 regulatory-listed properties were further evaluated for their potential risk to the Project Area. Fifteen of these 30 properties are considered low impact properties that are not anticipated to result in contamination being encountered during construction. Twelve properties are considered to be moderate impact properties that have a reasonable potential for contaminants to migrate to and impact the Project Area, but there is no conclusive evidence. The remaining three properties are considered high impact and anticipated to pose a risk of contamination being encountered in the Project Area during construction.
- **Historical and/or Current Adjoining Property Uses:** Several properties adjacent to the Project Area were identified as having historical and/or current industrial, commercial, or railway uses that could have resulted in potential releases of hazardous materials to the surrounding environment. The contaminants with highest probability to be associated with these historic and/or current property uses include metals, solvents, and petroleum hydrocarbons. Some of these historical uses could result in potential abandoned underground storage tanks located within or in close proximity to the Project Area.
- **Physical Environment:** Dredged material from the Lower Duwamish Waterway and other artificial fill is present along essentially the entire Project Area corridor. Potential

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contaminants in these fill materials could include petroleum constituents, metals, creosote (from treated wood), polycyclic aromatic hydrocarbons, and other unknown contaminants.

## **Construction Impacts and Mitigation**

The potential to encounter hazardous materials exists within several locations along the Project Area. To mitigate potential construction impacts, SDOT would:

- Conduct visual and olfactory screening of soils and ground water during excavation activities for indications of contamination. If suspect soils and/or ground water are encountered during project construction, or, in areas of known contamination, perform sampling and laboratory analysis to characterize the materials for proper management, handling, and disposal (as needed), including appropriate health and safety measures and compliance with applicable local, state and federal regulations;
- Develop protocol and select areas for field screening, sampling, and laboratory analysis based on the evaluation of adjoining known contaminated sites presented herein.
- Utilize best management practices for stormwater and erosion control;
- Follow Washington State Department of Ecology (Ecology) Underground Storage Tank (UST) reporting and removal regulations if abandoned or unreported regulated USTs are encountered during construction;
- Apply appropriate health and safety measures;
- Develop a contaminated media management plan and project specifications that outline proper testing, handling and disposal of any contaminated soil or water encountered during project construction. Project specifications may include WSDOT Standard Specifications, general special provisions (GSPs), or special provisions (project specific specifications) if needed. Typically, GSPs are added to the construction contract when contamination is predicted but not known. Special Provisions are used for known contamination. These specifications inform the Contractor of known or potential contaminants and any investigative reports available for the Contractor's review.

Excavated soils generated during construction that require off site removal (i.e., net export soils) that do not contain contaminants exceeding cleanup levels may still require treatment or disposal at a licensed facility, as many fill sites will not accept soils with detectable concentrations of contaminants, and liability may be incurred by the project owner for improper disposal of soils. The cost premium to dispose of soils below cleanup levels yet above unrestricted use criteria may therefore still be similar to that for "contaminated" soils.

## **Property Impacts and Mitigation**

Right-of-Way (ROW) property acquisitions could occur as part of the East Marginal Way Project. Acquisitions of properties with known or potential hazardous materials conditions/contamination may present a liability to SDOT. Mitigating potential liability from

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property acquisitions is typically accomplished via the due diligence process by completing Phase I Environmental Site Assessments (ESAs) and/or Phase II Subsurface Investigations (based on the results of the Phase I ESA). Phase I ESAs should be conducted for property or ROW acquisitions associated with the project. Phase II ESAs should be conducted for property acquisitions in areas where known contamination has been identified on or adjacent to the Project Area.

### **Operational Impacts and Mitigation**

On-going and future remediation of properties adjacent to the Project Area could be impacted by the operation of new facilities installed underground as part of the project construction. Potentially contaminated soil or ground water on adjacent properties and within the ROW could also affect maintenance activities for the completed project. Operation and maintenance of the East Marginal Way Project features is not expected to result in the release of hazardous materials into the environment from unintentional spills.



**HAZARDOUS MATERIALS ANALYSIS REPORT**  
**EAST MARGINAL WAY CORRIDOR DESIGN IMPROVEMENTS PROJECT**  
**ALASKAN WAY SOUTH AND EAST MARGINAL WAY**  
**SEATTLE, WASHINGTON**

**1. INTRODUCTION**

HWA GeoSciences Inc. (HWA) is pleased to present this Hazardous Materials Analysis Report (HazMat Report) to WSP USA Inc. (WSP) regarding the Seattle Department of Transportation (SDOT) East Marginal Way Corridor Design Improvements Project (East Marginal Way Project). We understand SDOT plans to improve freight mobility, safety, and efficiency within the East Marginal Way Project corridor. The project will include reconstructing roadway to heavy haul standards, constructing a protected bicycle facility, traffic signal installation/upgrades, curb and sidewalk installation, and replacement of the existing water main. The East Marginal Way Project corridor, an approximately two-mile roadway corridor, extends along Alaskan Way South and East Marginal Way South from the vicinity of South Atlantic Street to approximately 200 feet south of South Alaska Street.

The following sections of this report describe our scope of work, which included data collection and review activities, reconnaissance and investigation activities; and our findings and conclusions.

**1.1 PROJECT BACKGROUND**

Our understanding of the project scope and status was based on information provided by WSP. The East Marginal Way Project will consist of right-of-way and streetscape improvements within an approximately two-mile roadway corridor that extends along Alaskan Way South and East Marginal Way South from the vicinity of South Atlantic Street to approximately 200 feet south of South Alaska Street (herein referred to as the Project Area). The project is broken up into 3 segments and is expected to be constructed in two projects, the first being the North Segment Phase 1 and the second being North Segment Phase 2 and Central Segment. Phase 1 improvements include construction of a protected bicycle facility between South Spokane Street and South Atlantic Street, a new traffic signal at South Horton Street, adjustment to traffic signals at South Atlantic and South Spokane Streets, realignment of BNSF Railway (BNSF) industry service tracks and rebuild of the existing traffic signal at South Hanford Street, and associated improvements. The goal of the project is full separation of bicycle and truck traffic on East Marginal Way, including at traffic signals.

Phase 2 improvements include reconstruction of East Marginal Way to Heavy Haul pavement standards between approximately South Spokane Street and South Massachusetts Street, construction of new curb and sidewalk, drainage collection and conveyance systems, water quality treatment facilities, flow control facilities, updates to utility infrastructure and replacement of the existing water main for most of the project area. The Central segment is the area between South Spokane Street and approximately 200 feet south of South Alaska Street. In this segment, the focus is on multimodal safety and connectivity. Desired improvements include

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improved walking and bicycling facilities between South Spokane Street and Duwamish Avenue South, a multi-use trail on the west side of East Marginal Way between Duwamish Avenue South and Diagonal Avenue South, and changes to driveways, Union Pacific Railroad's (UPRR's) industrial service track, and overall circulation as needed.

As of the date of this report, WSP was scheduled to begin the 60% design submittal in 2020. Based on this preliminary project status, HWA was provided the following information:

- Estimated planned excavation depths below existing grade are as follows:
  - Excavations of approximately two feet for roadway reconstruction along essentially the entire project corridor.
  - Approximately 10 to 15-foot deep shaft foundation excavations for new signal poles or signal pole improvements, pedestrian push button poles, and dynamic message signs at the intersections of 1) Alaskan Way South and South Atlantic Street, 2) East Marginal Way South and South Hanford Street, 3) East Marginal Way South and South Horton Street, 4) East Marginal Way South and South Spokane Street, 5) East Marginal Way South and South Idaho Street, 6) just south of the intersection of East Marginal Way South and Diagonal Avenue South, and 7) just south of the intersection of East Marginal Way South and South Alaska Street.
  - Water and storm line excavations ranging between approximately four to six feet deep along essentially the entire Project Area with select locations with excavations depths that may reach up to eight to 12 feet.
  - Illumination and Intelligent Transportation System conduit excavations of up to four feet deep in select locations along the project corridor.
- The East Marginal Way Project may require partial acquisition of adjoining parcels. At the time of this report, WSP was able to provide information on one known potential partial property acquisition. This partial property acquisition was identified as the Port/Northwest Seaway Alliance (NWSA) property. WSP indicated that large slivers of the existing sidewalk on the west side of East Marginal Way South are within Port/NWSA property and these areas may be acquired by SDOT or SDOT may obtain an easement from the Port of Seattle.

Considering the length of the Project Area (approximately two-miles), depth to ground water varies across the Project Area. Review of Environmental Data Resources Inc. (EDR) state database well information, Washington State Department of Ecology (Ecology) well logs, and previous environmental reports for nearby properties generally indicates static ground water levels near the Project Area range from approximately 5 to 10 feet below ground surface (bgs) and may vary with tidal influence. Based on this information, ground water is expected to be encountered during construction.

## **1.2 OBJECTIVES**

The objectives of this Hazardous Materials Analysis Report included:

1. Identifying existing and potential hazardous materials and/or adverse environmental conditions;
2. Assessing the impacts that existing and potential hazardous materials might have on the project or on potential for environmental liability associated with property acquisition; and,
3. Identifying measures to mitigate potential impacts.

## **1.3 SCOPE OF WORK**

HWA's scope of work for the project included:

- Review federal, state, and local agency environmental regulatory databases for the Project Area and adjoining properties, focusing on the identification of any record of the presence of hazardous substances, underground storage tanks (USTs), or hazardous substance spills;
- Review historical documentation including:
  - Historical aerial photographs
  - Historical topographic maps
  - Sanborn fire insurance maps, where coverage available
  - Reverse city directories for the streets included as part of the Project Area
- Review existing reports documenting previous environmental investigations of the Project Area and/or adjoining properties (as available online from Ecology)
- Perform a visual reconnaissance of the Project Area and adjacent properties from public Right-of-Way (ROW) or publicly accessible properties (windshield survey) to document ground surface conditions, recent activities, and identify existing and/or potential hazardous materials conditions;
- Evaluate the information, data, and observations collected during the above activities to identify potential hazardous materials conditions at the Project Area and/or adjoining properties;
- Assess the impacts that hazardous materials conditions might have on the project (if present), and describe appropriate mitigation measures; and,
- Prepare draft and final Hazardous Materials Analysis Report describing our data collection, field activities, data evaluation, findings, and conclusions.

## **2. PROJECT AREA DESCRIPTION**

The following sections describe the Project Area, its geographic setting, and hydrogeologic conditions based on review of background information and Project Area reconnaissance.

### **2.1 LOCATION**

The Project Area consists of an approximately two-mile roadway corridor and adjacent ROWs that include portions of Alaskan Way South and East Marginal Way South. The Project Area corridor extends from the vicinity of South Atlantic Street to approximately 200 feet south of South Alaska Street in Seattle, King County, Washington. Figure 1 shows the Project Area location and vicinity. Figure 2 shows the Project Area layout.

### **2.2 PHYSICAL SETTING**

The Project Area is within a mixed-use, urban area generally consisting of industrial, maritime, railway and commercial properties with industrial properties dominating the landscape.

The Project Area is relatively flat and the nearby land slopes gently to the west. Project Area elevation is approximately five feet above mean sea level. The nearest surface water body is the Lower Duwamish Waterway (LDW), which is generally located at least 100-feet west of the Project Area (see Figure 2).

### **2.3 GEOLOGIC/HYDROGEOLOGIC SETTING**

General geologic information for the Project Area was obtained from *The Geologic Map of Seattle- A Progress Report* (U.S. Geological Survey [USGS], 2005), which indicates the Project Area is likely underlain by a veneer of “artificial fill” (af) or “artificial fill in historic river channels” (afr). The types of fill are described as very soft to stiff or very loose to dense gravel, sand, silt, concrete, bricks, coal, wood, garbage, slag, and other materials, placed as a direct result of human activity and historic Duwamish River channel straightening by US Army Corps of Engineers in the 1930s. The af is of substantial areal extent or thickness and likely greater than 2 meters in thickness while the afr is 7 to 10 meters thick. Soils likely to be encountered below the fill consist of tide flat deposits (map unit Qtf), peat (map unit Qp), and younger alluvium (map unit Qyal). The Qtf unit is described as very loose to dense silt, sand, organic sediment and detritus, with some shells, historically exposed in broad coastal benches at low tide and now fill covered. The Qp unit predominantly consists of plant materials and woody debris, typically interbedded with silt and clay and can vary in thickness from one meter to tens of meters. The Qyal unit is moderately sorted deposits of cobble gravel, pebbly sand, and sandy silt deposited by streams and running water, and may contain soft peat lenses.

From review of historical topographic maps dating from the 1890s, the majority of the Project Area was originally part of Elliott Bay. By 1908, fill had been placed, which created the land along the majority of the Project Area. Prior to the early 1900s, the southernmost portion of the Project Area (generally south of the present day South Spokane Street) consisted of portions of the Duwamish River and adjacent tide flats and riverbanks. In 1913, dredging of the Duwamish

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River began in order to straighten the river and facilitate navigation and economic development. The dredged portion of the river, referred to as the LDW, extended from the vicinity of the present day South Spokane Street to south of South Alaska Street, the southern terminus of the Project Area. Dredged material from the river was utilized to create Harbor Island and to bring the elevations of the lowlands, including the Project Area, above flood levels. Fill from upland sources was also widely used during filling of the tide flat areas. In many of the Project Areas, fill was placed over timber and debris that had previously been utilized in the construction of piers, wharves and trestles.

Ground water levels near the project area range from approximately 5 to 10 feet bgs and are expected to be encountered during some of the project construction activities. Tidal changes in the LDW may influence ground water levels and flow direction in the Project Area. Ground water may be of sufficient quantities to require removal and/or containment within excavations, especially during the rainy season. Shallower, perched ground water conditions also may be encountered within excavation areas.

The dredged material from the LDW and artificial fill along essentially the entire Project Area corridor and over former piers, wharves and trestles are likely to include adversely affected soils and could potentially impact the ground water in the Project Area. Coal, slag, garbage and other debris in the fill likely contains contaminants including petroleum hydrocarbons, heavy metals, creosote (from treated wood), polycyclic aromatic hydrocarbons (PAHs), solvents, polychlorinated biphenyls (PCBs), and other contaminants.

## **2.4 CURRENT USE OF PROJECT AREA AND ADJACENT PROPERTIES**

The Project Area is currently a roadway corridor with associated sidewalk and other transportation, utility, and stormwater facility improvements. Adjacent property uses include mixed-use industrial, maritime, railway, commercial, and public roadway properties including, but not limited to; several Port of Seattle terminals, Highway 99, and various industrial properties and commercial businesses. East Marginal Way South and Highway 99 merge to one roadway in the vicinity of South Nevada Street, approximately 0.4 miles north of the southern terminus of the Project Area. The west-adjointing properties consist mainly of Port of Seattle and industrial properties, beyond which is the LDW. The northeast-adjointing properties generally consist of Highway 99 with railroad operating properties beyond. The remaining east-adjointing properties include various industrial warehouse and commercial properties. Site photos are included in Appendix A.

### **3. PROJECT AREA AND ADJOINING PROPERTY HISTORY**

#### **3.1 PURPOSE AND GENERAL PROJECT AREA AND ADJOINING PROPERTY USE**

HWA investigated land use history of the Project Area and adjoining properties by reviewing historical aerial photographs, Sanborn fire insurance maps, historical topographic maps, and reverse city directories for the roadways included within the Project Area. Historical data review was performed to gain an understanding of previous uses and/or activities at the Project Area and adjacent properties. Historical use and/or activities may be associated with adverse environmental conditions, which may be a concern during proposed project construction activities.

Historical research indicates that prior to the 1890s much of the Project Area consisted of Elliot Bay or the Duwamish River. In the early 1900s, fill had been placed on the northern portion of the Project Area (north of South Spokane Street) with roadway, railway, and industrial development following, and by 1913 dredging of the LDW had begun. By the 1930s, the Project Area was a public roadway/ROW while the adjoining properties consisted of industrial, commercial, residential and undeveloped properties. By the early 1950s, the Project Area adjoining properties were similar to their current configurations with uses including Highway 99/Alaskan Way Viaduct, Port of Seattle properties, and industrial and commercial properties.

#### **3.2 HISTORICAL TOPOGRAPHIC MAPS**

HWA reviewed historical topographic maps of the Project Area and vicinity spanning from 1894 to 2014, available from EDR (EDR, 1/30/2018). Copies of the EDR topographic maps are included in Appendix B.

During the 1890s, the majority of the Project Area (north of South Spokane Street) was part of Elliott Bay while the southernmost portion (generally south of South Spokane Street) consisted of sections of the Duwamish River and adjacent tide flats and riverbanks. Development of the Project Area and adjoining properties consisted of piers, wharfs and trestles north of South Spokane Street and a minimal number of structures were noted adjacent to the southernmost portion of the Project Area. By 1908, fill had been placed on areas of the Project Area north of South Spokane Street creating land that was developed with roadways and industrial and maritime facilities. At that time, residential development was visible adjacent to the southmost portion of the Project Area. By 1968, the Project Area consisted of a roadway corridor with adjoining industrial, commercial and residential properties and the LDW located to the west.

#### **3.3 HISTORICAL AERIAL PHOTOGRAPHS**

HWA reviewed historical aerial photographs of the Project Area and vicinity, at approximately 10-year intervals spanning from 1936 to 2015, available from EDR (EDR, 2/6/2018). Copies of the EDR aerial photographs are included in Appendix C. In 1936, the Project Area was visible as a roadway corridor, with possible unpaved sections. Adjoining properties generally consisted of port, railroad and industrial properties with undeveloped lands also present on the

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southernmost portion of the Project Area. During the 1940s to the 1950s, an increase in commercial and industrial development is visible on the adjoining properties with a significant increase in development in the southernmost portion of the Project Area. From 1968 to 2015, the Project Area was similar to its current configuration, a paved public roadway. During this time, the adjoining properties also appear similar to the present-day configuration with properties consisting of Highway 99/former Alaskan Way Viaduct, Port of Seattle properties, railway, industrial, and commercial properties.

### **3.4 SANBORN FIRE INSURANCE MAPS**

Sanborn Fire Insurance maps dating from 1904, 1916, 1929, 1949, 1950 and 1967 were available for portions of the Project Area and adjoining properties (EDR, 2/7/18). A copy of the EDR Certified Sanborn Map Report is included in Appendix D.

In general, review of the Sanborn maps indicates that the portions of the Project Area have been developed as a public roadway since the early 1900s. Adjacent property use consisted of industrial and commercial properties including, but not limited to:

- Railroad tracks and maintenance facilities;
- Port of Seattle terminals and various maritime related facilities
- Manufacturing companies (e.g., steel/sheet metal production, and metal foundries; glass and windows; food processing and equipment production; paint production; milling and lumber companies, paper manufacturing and printing facilities; fisheries; compressed gas (oxygen and acetylene) producers; and electrical equipment manufacturers and repair;
- Phillips Petroleum Company and Standard Oil Company bulk fuel plants;
- Government facilities (e.g., Washington State Liquor Control Board, “U.S. Gov’t Property,” US Quartermaster Depot [present day US ACE property])
- Various warehouse storage facilities;
- Machine shops; and
- Gasoline service stations, commercial fueling stations and automobile/truck/marine vessel/heavy equipment repair shops.

In addition to this, several environmentally suspect features were located within the Project Area footprint or immediately adjacent to the ROW. These areas and associated features are noted below and shown on Figure 3.

- Two “gas & oil” (gasoline stations) facilities were noted on 1950 Sanborns as being located immediately adjacent west of East Marginal Way South in the vicinity of the Terminal 30 property (discussed in Section 4 below). No tank locations were identified with respect to these former gas & oil facilities.
- A building located in the vicinity of historical address 4610 East Marginal Way South was noted on the 1967 Sanborn as having been occupied by a paper box manufacturing and printing facility with a gasoline “tank” located just off the northwest corner of the

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building. This gasoline tank was depicted as immediately adjacent to East Marginal Way South and could potentially be located within the present day Project Area footprint.

Many of the commercial and industrial uses noted above that are adjacent to the Project Area could have the potential to cause adverse environmental impacts on the Project Area. Adverse impacts from adjoining property hazardous material and/or fuel storage, handling and disposal practices are not unusual at commercial properties, such as gasoline service stations or dry-cleaning facilities, especially facilities that have been in operation prior to state and federal environmental regulations. Several of the properties noted on the Sanborn Maps were also identified in the environmental regulatory records reviewed and are discussed in Section 4 below. In addition, the status of potential tanks (i.e. decommissioned, abandoned, etc.) is unknown.

### **3.5 REVERSE CITY DIRECTORIES**

HWA reviewed reverse city directories for streets included within the Project Area corridor, Alaskan Way South and East Marginal Way South, available from Environmental Data Resources (EDR, 2/14/2018). The EDR city directory documentation is included in Appendix E.

Review of reverse city directories dating from 1940 to 2014 indicate that the adjoining properties to the Project Area were predominantly occupied by industrial and commercial operations including, but not limited to: Port of Seattle, public and private sector maritime facilities, various government agencies, Boeing missile production center, manufacturing companies, lumber mills, fisheries and food distributors, machine shops, gasoline service stations, automobile, boat and equipment repair facilities, printing facilities, restaurants, and retail establishments.

### **3.6 EDR HISTORICAL AUTO AND DRY CLEANER DATABASE**

The EDR database report (see Section 4) includes a search of “high risk historical records” that identifies historical automobile and dry cleaning related facilities. A total of three historical automobile properties were identified as being within the “Target Property” and six were noted as located within 1/8 mile of the Project Area. Of these nine properties, two are identified by EDR as adjacent to the Project Area and the remaining seven are identified as located close to the Project Area. Table 1 identifies these properties and their associated addresses and EDR map identification number. No historical dry cleaning related facilities were identified within 1/8 mile of the Project Area. A copy of the complete EDR database report is included in Appendix F.



<b>Table 1</b> <b>EDR Historical Auto Listings<sup>1</sup></b> <b>(Discussed in Order Identified in EDR Database Report<sup>2</sup>)</b>		
Site Name	Address	EDR Map ID / Focus Map
<b>IDENTIFIED AS “WITHIN THE REQUESTED TARGET PROPERTY”</b>		
TOM AND BILL S SERVICE	2201 E MARGINAL WAY	137 / 3
INDUSTRIAL SERVICE STATION	2711 E MARGINAL WAY	F157 / 3
ASSOCIATED AUTO BODY AND FENDER WORKS	3304 E MARGINAL WAY	H171 / 5
<b>IDENTIFIED AS “WITHIN APPROXIMATELY 0.125 MILES OF THE REQUESTED TARGET PROPERTY”</b>		
SHIPYARD SERVICE STA	2959 E MARGINAL WAY	O198 / 3
STAR CARRIAGE CO THE	91 STACY	216 / 3
SHULTZ DISTRIBUTING	1901 E MARGINAL WAY	230 / 3
BOTHELL AND WATERS	110 W MASSACHUSETTS	AA236 / 3
PHANTOM RESTORATIONS	30 S HORTON ST	AF277 / 6
PHANTOM RESTORATIONS	40 S HORTON ST	AF296 / 6

<sup>1</sup> Properties identified within 1/8 mile of the Project Area.

<sup>2</sup> See EDR report (**Appendix F**).

## 4. REGULATORY AGENCY RECORDS

### 4.1. REVIEW OF AGENCY AND STATE-MAINTAINED DATABASE INFORMATION

HWA contracted EDR to compile information from national, state, and local regulatory databases listing specific properties where known or suspected adverse environmental conditions might exist. The search includes the Project Area and other properties within an eighth of a mile to a mile radius from the Project Area (based on type of regulatory database listing, Washington State Department of Transportation (WSDOT) guidance and ASTM standards). Based on the addition of approximately 800 feet to the southern portion of the Project Area during the project process, two EDR database reports were reviewed as part of the HazMat analysis. Appendix F contains the complete EDR reports, including executive summaries with the results of the database search, and maps showing the approximate locations of identified sites.

Environmental regulatory database listed-properties identified within areas of potential influence to the project were categorized based on their potential risk to the East Marginal Way Project. HWA utilized a risk category system based on WSDOT's *Guidance & Standard Methodology for WSDOT Hazardous Materials Discipline Reports* (WSDOT, 2017). The follow risk categories were used to rank properties based on relative risk of adverse impacts to the Project Area.

- **No Impact:** These sites were eliminated from further consideration due to the nature or status of the database listing (e.g., no reported or suspected releases), media affected, or the distance and/or location of the property relative to the Project Area.
- **Low Impact:** These sites have a low likelihood to impact the Project Area because there was no evidence to suggest that ground water from the site of concern is impacted, or offsite migration of the contamination is not expected to impact the Project Area.
- **Moderate Impact:** These sites have a moderate likelihood to impact the Project Area because of the type or extent of contaminant, and/or ground water from the site of concern is impacted and has a reasonable potential to migrate to, and impact the Project Area, but there is no conclusive evidence.
- **High Impact:** These sites may be substantially contaminated and could create a major liability for SDOT either during construction or by acquiring all or a portion of the site. If the site has undergone a detailed investigation and a feasibility study, the impacts and remediation costs may be predicted. Nonetheless, the site is identified as a high impact site because of its potentially substantial impact or liability. In general, high impact sites are properties that may have large volumes of contaminated soil, ground water, or sediment, or may have multiple, complex types of contaminants that require special handling and disposal that is expensive to manage.

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The EDR database searches identified approximately 1,000 regulatory-listed properties, some of which included one physical property that was identified on multiple regulatory databases or duplication of property listings due to overlap in the two database reports. Of these, the vast majority were considered to be no impact properties and were eliminated from further consideration. Thirty properties were evaluated further to prioritize the highest concerns to the Project. The 30 sites that were further evaluated are either located within the Project Area or are considered to be adjacent or in close proximity to the Project Area. HWA categorized these 30 properties as 15 low impact, 12 moderate impact, and three high impact properties. These sites are illustrated on Figure 3. These remaining low, moderate and high impact properties are discussed below (in the order identified in the EDR reports). Table 2, which summarizes the low, moderate, and high impact properties; estimated ground water depth in the vicinity of these properties; and proposed mitigation measures, is included below. Figure 3 depicts potential sites of concern. Copies of the EDR reports are included in Appendix F.

<b>TABLE 2</b> <b>Sites with Potentially Adverse Environmental Conditions Based on Regulatory Database Searches</b> <b>(Discussed in Order Identified in EDR Database Report)</b>										
Property Name and Address	EDR Map ID Code	Distance, Direction, and Relative Elevation	Relative Database Listings <sup>1</sup>	Contaminants	Media	Status	Potential Risk to Project Area	Approximate Depth to Ground Water (ft bgs)	Potential Acquisition and/or Construction Impacts	Proposed Mitigation Measure <sup>2</sup>
WA DOT South Atlantic St / S Atlantic St & Alaskan Way	A1	Project Area	CSCSL	TPH-Dx & PAHs	Soil & ground water	Awaiting Cleanup	High	Not reported	Impacted soil and ground water during excavation	Soil and ground water sampling ahead of construction
USCG / 1519 Alaskan Way South	B5-B120	West-adjointing, same elevation	ERNS, RGA LUST, CSCSL, LUST, CSCSL-NFA, CA HAZNET, RCRA-NonGen, RCRA-LQG, ICR, UST, SEMS-ARCHIVE,	TPH-“other”	Soil	Cleanup Started & NFA	Low	Not reported	Impacted soil during excavation	Visual and olfactory field screening of soils and ground water
US GSA /1555 Alaskan Way South	B121-B126	West-adjointing, same elevation	ICR, RGA LUST, RCRA-NonGen, VCP, CSCSL, LUST & UST	Benzene, TPH-Dx/Gx/other, PAHs, metals, non-halogenated pesticides/solvents & PCBs	Soil & ground water	Cleanup Started	Moderate	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
GATX / 1733 Alaskan Way South	C128-C134	West-adjointing, same elevation	RCRA-NonGen, CSCSL, ICR, FUELS Program, CSCSL-NFA, UST	Metals, non-halogenated solvents, TPH-“unspecified” & PAH	Soil, ground water & sediments	Cleanup Started (upland) & Awaiting Cleanup (sediments)	Moderate	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water

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2431 Terminal 30 / 2431 East Marginal Way South	E138-E156	West-adjointing, same elevation	ERNS, RGA LUST, RCRA-VSQG, UST & ICR	TPH	Soil & ground water	Not Reported	Moderate	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
2715 Terminal 30 / 2715 East Marginal Way South	F158-F162	West-adjointing, same elevation	ERNS, RCRA-NonGen, CSCSL, LUST & CSCSL-NFA	TPH-Dx/Gx/O, VOCs & PAHs	Soil, ground water & sediments	Cleanup Started & NFA	Moderate & High	8-14	Impacted soil and ground water during excavation	Soil and ground water sampling ahead of construction
Terminal 25 / 3225 East Marginal Way South	G163-G170	West-adjointing, same elevation	RGA LUST, LUST, UST, CSCSL-NFA, RCRA-NonGen & ERNS	TPH-Gx & BTEX	Soil & ground water	NFA	Moderate	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
East Marginal Way S Bridge Rehabilitation / E Marginal Way S at S Horton St	H172	Project Area	CSCSL	Arsenic, benzene, dioxin/dibenzofuran compounds & PAHs	Soil	Awaiting Cleanup	High	Not reported	Impacted soil during excavation	Soil and ground water sampling ahead of construction

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BEI / 3400 East Marginal Way South	I174-I176	150 feet east	SEMS-ARCHIVE, RCRA-NonGen, CSCSL-NFA, ERNS	Halogenated organics	Soil	NFA	Low	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
Griffin / 4301 East Marginal Way South	M184-M190	West-adjointing, same elevation	RGA LUST, LUST, UST, CSCSL-NFA, RCRA-NonGen & ICR	TPH, BTEX & lead	Soil	NFA	Low	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
Cascade Machinery / 4600 East Marginal Way South & 21 South Nevada	N193, T212-T214 & 219	East-adjointing, same elevation	RGA LUST, LUST, UST, ICR, CSCSL-NFA & RCRA-NonGen	TPH-Gx & waste oil	Soil & ground water	NFA	Moderate	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
Ponchos / 3685 Duwamish Avenue South	U217 & U218	West-adjointing, same elevation	HSL, CSCSL & VCP	HVOCs & metals	Soil & ground water	Cleanup Started	Moderate	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water

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Property Name and Address	EDR Map ID Code	Distance, Direction, and Relative Elevation	Relative Database Listings <sup>1</sup>	Contaminants	Media	Status	Potential Risk to Project Area	Approximate Depth to Ground Water (ft bgs)	Potential Acquisition and/or Construction Impacts	Proposed Mitigation Measure <sup>2</sup>
Terminal 106 NW / 3629 Duwamish Avenue South	AC28-AC291	West-adjointing, same elevation	RCRA-NonGen, CSCSL, LUST & ICR	TPH, BTEX & lead	Soil & ground water	Cleanup Started	Low	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
Chevron 4097 / 4525 Diagonal Avenue South	V220-V221	West-adjointing, same elevation	ICR, VCP, HSL & CSCSL	Metals, non-halogenated solvents, "unspecified" TPH, PCBs & PAHs	Soil, ground water, surface water & sediments	Cleanup Started	Low	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
Dragon Fly Forge / 3600 East Marginal Way	W223-W225	East-adjointing, same elevation	RCRA-NonGen, ERNS, HSL & CSCSL	Arsenic & trivalent chromium	Soil	Cleanup Started	Low	Less than 25	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
Crescent Foods / 25 South Hanford Street	Y231-Y234	East-adjointing, same elevation	ICR & RGA LUST	"Petroleum Products"	Soil & ground water	Not reported	Moderate	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water

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Horton Shop	X259-X267	East-adjointing, same elevation	RGA LUST, UST, RCRA-VSQQ, ERNS, LUST, CSCSL-NFA & ICR	TPH-Gx/Dx, BTEX & waste oil	Soil & ground water	NFA	Moderate	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
EMW Grade Separation / Duwamish Way S & S Spokane St.	AC269	400 feet west, same elevation	HSL & CSCSL	TPH-O, PAHs & arsenic	Soil & ground water	Cleanup Started	Low	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
MCE / 3670 East Marginal Way South	AD27-AD272	East-adjointing, same elevation	VCP, UST, CSCSL-NFA & RCRA-NonGen	TPH-O, arsenic, lead, cadmium & PCBs	Soil & ground water	NFA	Low	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
MC Terminals; 40 S Spokane St	AH284 & AH285	400 feet east, same elevation	ICR & CSCSL	Base/Neutral/Acid Organics, PAHs, & halogenated organics	Soil, ground water	Awaiting Cleanup	Moderate	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water



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Irish Foundry / 45 South Spokane St.	AI292-AI295	450 feet E, same elevation	VCP, CSCSL, ICR, RCRA-NonGen & US BROWNFIELDS,	Metals & “unspecified” TPH	Soil & ground water	Awaiting Cleanup	Low	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
Coast Crane / 1531 Utah Ave South	AJ299-AJ303	250 feet E, same elevation	RGA LUST, HSL, CSCSL, LUST, UST, ICR & RCRA-NonGen	TPH-Gx/Dx/O & benzene	Soil & ground water	Cleanup Started	Low	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
ECD / 9 South Massachusetts	AN31-AN317	West-adjointing, same elevation	RCRA-NonGen, VCP, CSCSL, LUST & UST	TPH-Gx & halogenated organics	Soil & surface water	Cleanup Started	Low	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
Terminal 106 / 44 South Nevada Street	AL319-AL321	West-adjointing, same elevation	HSL, CSCSL, LUST, UST, RCRA-NonGen & ICR	Benzene, lead & TPH-Gx/other	Soil & ground water	Cleanup Started	Low	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water

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Ash Grove / 3801 E Marginal Way	AP323 & AP324	West-adjointing, same elevation	HSL, CSCSL, SEMS-ARCHIVE, RCRA-VSQQ	Halogenated organics, metals, TPH & PCBs	Soil, ground water & air	Awaiting Cleanup	Moderate	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
SR 519 St Improvement; Alaskan Way S	AS334	700 feet east, same elevation	CSCSL	Halogenated Organics, metals, "unspecified" TPH & PAHs	Soil & ground water	Awaiting Cleanup	Low	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
Terminal 37 / 1201 Alaskan Way South	AS341-AS343	600+ feet north, same elevation	CSCSL, LUST, UST, RCRA-NonGen & ICR	Benzene & TPH- "other"	Soil & ground water	Cleanup Started	Low	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
Harbor Island Lead	512	¼ mile west, same elevation	NPL, SEMS, US ENGINEERING CONTROLS & US INSTITUTIONAL CONTROLS	Lead & "other contaminants" including but not limited to PCBs, metals, cPAHs & tributyltin	Soil, ground water & sediment	NPL Site	Low	Not reported	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water

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US ACE / 4735 East Marginal Way South	Z238-Z253	West-adjointing, same elevation	CSCSL, VCP, ERNS, ICR, RGA LUST, UST, RCRA-NonGen & RGA HWS,	TPHs, VOCs, HVOCs, cPAHs & metals	Soil & ground water	Cleanup started	Moderate	8-10	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water
Perfection Smokery / 4660 East Marginal Way	Z235 & AG279	East-adjointing, same elevation	RGA LUST, HSL, CSCSL, LUST, UST, ICR & RGA HWS	Non-halogenated solvents & TPH-Gx	Soil & ground water	Cleanup Started	Moderate	7-8	Impacted soil and ground water during excavation	Visual and olfactory field screening of soils and ground water

<sup>1</sup> See EDR report (**Appendix F**).<sup>2</sup> Details regarding recommended mitigation measures if suspect impacted soil and/or ground water encountered are discussed in Section 8.

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**WA DOT South Atlantic Street:** South Atlantic Street and Alaskan Way South, Project Area (Facility Site ID 24025, Cleanup Site ID 12505). This site is included in Ecology's Confirmed and Suspected Contaminated Sites List (CSCSL) due to discovery and investigations in 2013 and 2014 that identified the following contaminants at the property: polycyclic aromatic hydrocarbons (PAHs) confirmed above Model Toxic Control Act (MTCA) regulatory cleanup levels in soil and suspected in ground water, and diesel-range total petroleum hydrocarbons (TPH-Dx) suspected in ground water. According to an Ecology 2014 Initial Investigation document, an orphan 1,000-gallon heating oil UST was encountered during stormwater piping excavation activities along the Elliott Bay Trail near the Port of Seattle's Terminal 46. Approximately 10 cubic yards of impacted soils were excavated but TPH-Dx (at 30,000 milligrams per kilogram [mg/kg]), oil-range TPH (TPH-O, at 24,000 mg/kg), naphthalene, and carcinogenic PAHs (cPAHs) above regulatory cleanup levels were left in place at approximately 10 feet bgs, the bottom of the excavation. Ground water was not investigated but impacts were considered to be likely.

Based on the location of the contamination identified at this property (i.e., within the Project Area), it is HWA's opinion that the environmental contamination in soil and suspected in the ground water at this property have a high potential to impact the Project Area. HWA recommends sampling and analysis of soils and/or ground water (if encountered) prior to construction if excavation is to occur in the vicinity of this property.

**1519 Alaskan Way South/US Coast Guard Pier 35/US Coast Guard Support FAC Pier 36/US CG Integrated Support Command Seattle/USCG Boutwell Wharf 719/Coast Guard Base Seattle/US Coast Guard Facility/USCG Support Center Seattle/USDOH CG Seattle Support Center (USGC):** 1519 Alaskan Way South, west-adjointing property (Facility Site ID 68879649, Cleanup Site IDs 10181 and 10182). The USCG property is identified in the EDR report for several Ecology Emergency Response Notification System (ERNS) database listings. The ERNS database is a general tracking system utilized by Ecology for reporting releases of oil and hazardous substances. The ERNS reports for the USGS ISCS property are generally related to minor (less than five gallons) releases of hazardous materials (e.g., fuels, hydraulic oils, paints, sewage, etc.) to Elliot Bay from marine vessels, the paved or concrete ground surface, or into storm drain. The USGS property is also identified on Ecology's CSCSL and CSCSL- No Further Action (NFA) databases with two separate cleanup site identification numbers, which can indicate that multiple releases have occurred at this property or that different locations of the property are considered to be separate regulated sites by Ecology. According to information provided in Ecology's Cleanup Site Details (CSD) for the USCG property CSCSL-NFA listing, a leaking underground storage tank (LUST) at this property was reported to Ecology in 1992 and "petroleum other" impacts were noted to be above MTCA regulatory cleanup levels in soils. No information regarding the exact location of these impacts or remedial actions that may have occurred were identified in the CSD. The EDR database report indicates that the CSCSL listing for this property is also related to "petroleum-other" impacts above cleanup levels in soil but no other information regarding this CSCSL listing was identified.

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Although the exact location of the environmental impacts at the USGS property are unknown, based on the inferred downgradient location of the USCG property relative to the Project Area and soil impacts only; it is HWA's opinion the USGS property has a low likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**US GSA Federal Warehouse/Alaskan Way/Federal Warehouse (US GSA):** 1555 Alaskan Way South, west-adjointing property (Facility Site ID 91231465, Cleanup Site ID 6842).

According to Ecology's UST database available online, the US GSA property had a 1,000-gallon unleaded gasoline UST that was removed from the property in 1996. An 8,300-gallon heating oil UST and another UST with unreported capacity or contents were both noted to have a status of "exempt." It is unknown if these exempt USTs still remain on this property. Ecology's CSD of the property indicates that soil and ground water contamination associated with LUSTs were reported to Ecology in 1998. Contamination has been identified as the following: benzene, TPH-Dx, gasoline-range TPH (TPH-Gx) and TPH-"other" confirmed above regulatory cleanup levels in soil and ground water; PAHs confirmed above cleanup levels in soil and suspected in ground water; and metals, non-halogenated pesticides, and PCBs suspected in ground water. No Ecology site documents regarding the contamination identified at this property are available online.

Based on the unknown location of the soil and ground water impacts at this adjoining property; it is HWA's opinion the US GSA property has a moderate likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**First Recovery Seattle/GATX Facility (GATX)/GATX Facility Pier 34/General Transport Co.:** 1733/1733A Alaskan Way South, west-adjointing property (Facility Site ID 2523, Cleanup Site ID 2543). According to Ecology's CSD, the GATX property was reportedly a tank storage terminal that has contamination consisting of priority pollutant metals, non-halogenated solvents, unspecified petroleum products, and PAHs that were confirmed above cleanup levels in the soil and ground water and were suspected in sediments at this property. No Ecology site documents regarding this contamination are available online.

Based on the unknown location of the contamination identified and the media impacted (soil and ground water); it is HWA's opinion the GATX property has a moderate likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

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**Port of Seattle Terminal 30/SSA Terminals Seattle LLC/Terminal 30/2431 East Marginal Way South (2431 Terminal 30)**, 2431 East Marginal Way South, west-adjointing property (Facility Site ID 2055, UST Site ID 6267). According to Ecology's UST database available online, the 2431 Terminal 30 property had a 5,000-gallon waste oil UST that was closed in place in 2009; and a 1,000-gallon leaded gasoline UST, two approximately 100 to 1,100-gallon waste oil USTs, and a 650-gallon heating oil UST that were all removed from the property in 1996. Ecology's Independent Cleanup Report (ICR) database notes Interim Cleanup Reports regarding petroleum contamination to soil and ground water from tanks were received by Ecology in May and December 1992, June 1993, July 1995, and January 1996. No Ecology site documents regarding the contamination identified at the 2431 East Marginal Way South address are available online. However, several other environmental database listings with online Ecology documents available for review were identified for a property identified as Terminal 30 but addressed at 2715 East Marginal Way (see discussion of next property below).

Based on the unknown location of the soil and ground water impacts identified at the 2431 Terminal 30 property; it is HWA's opinion this property has a moderate likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**2715 East Marginal Way/Crowley Marine Services Inc./Port of Seattle Terminal 30 (2715 Terminal 30)**, 2715 East Marginal Way South, west-adjointing property (Facility Site ID 2055, Cleanup Site IDs 4394, 9657, and 9658). According to Ecology's CSD and an Ecology April 2019 Site Status for the property, the 2715 Terminal 30 property is an approximately 33.9-acre property with approximately 11 acres in the northern portion of the property that is considered the "cleanup Site." The 2715 Terminal 30 property was a Chevron Bulk fuel terminal from approximately 1905 to 1984 with a variety of purposes including a lumber yard, machine shop, and a shipyard. The property has been utilized as a Port of Seattle container facility since 1985. Remediation of the property began in the 1980s and contaminants identified as TPH-Gx, TPH-Dx, TPH-O, volatile organic compound (VOCs) including benzene, toluene, ethylbenzenes and xylenes (BTEX), and PAHs have been confirmed above cleanup levels in soil, ground water, and/or sediments, and are suspected in surface water at the property. PCBs and metals are also confirmed above cleanup levels in the sediments at this property.

From review of a 2015 Cleanup Action Plan, 2016 (Revised from 2013) Remedial Investigation/Feasibility Study, and a December 2018 Engineering Design Report, a recovery system was installed on the 2715 Terminal 30 property in the early 1990s which removed over 171,000 gallons of petroleum product from ground water. In 2007 more than 24,000 cubic yards of petroleum impacted soil was excavated and disposed of offsite. Various other actions including capping the site, installation of over 100 monitoring and recovery wells, oxygen release compound injections, installation of a sheet pile wall, and continued monitoring have also occurred at the 2715 Terminal 30 property. Although the extent of petroleum contamination is noted to have been "significantly reduced," soil and ground water impacts above cleanup levels

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remain at this site. The extent of soil and ground water contamination at this property extends from the vicinity of the LDW into the western ROW of East Marginal Way South. Ground water depths are noted to be between eight to 14 feet bgs with flow to the west, toward the Duwamish Waterway, with notation that ground water flow is strongly influenced by tidal fluctuations and man-made structures. This property is identified on both the CSCSL and CSCSL-NFA databases. From review of two 2012 NFA letters for the property, the NFAs issued for this property appear to be associated with two separate LUSTs and are not for the overall 2715 Terminal 30 property.

Based on the large magnitude of contamination impacts, and location of soil and ground water contamination identified within Project Area; it is HWA's opinion that the environmental impacts at the 2715 Terminal 30 property that extend into the western ROW of East Marginal Way have a high potential to impact the Project Area while other impacts at this property have a moderate potential to impact the Project Area. HWA recommends sampling and analysis of soils and/or ground water (if encountered) prior to construction in the vicinity of the high impact area of this property and visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of other portions of this property.

**Terminal 25/Matson Terminal 25 (Terminal 25)**, 3225 East Marginal Way South, west-adjointing property (Facility Site ID 38379351, Cleanup Site ID 8972). Information from Ecology's CSD and a 2012 NFA letter indicate that the Terminal 25 property had a LUST that was reported to Ecology in 1989 with TPH-Gx and BTEX impacts to both soil and ground water. An independent cleanup action was performed (date and type of remedial action not identified) that remediated contaminants of concern (COCs) in soil and ground water to below cleanup levels. The location of these impacts was not identified in the documents available for review. From review of King County tax assessor parcel maps and Ecology's mapping feature, the Terminal 25 property address is located on the south portion of the 2715 Terminal 30 property discussed above.

Based on the unknown location of the soil and ground water impacts identified at the Terminal 25 property; it is HWA's opinion this property has a moderate likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**East Marginal Way South Bridge Rehabilitation**, East Marginal Way South at South Horton Street, potentially Project Area (Facility Site ID 20793, Cleanup Site ID 12027). According to Ecology's CSD, this site is included in Ecology's CSCSL due to discovery and investigation in 2011 that identified the following contaminants: arsenic, benzene, dioxin/dibenzofuran compounds, and PAHs confirmed above cleanup levels in soil. No Ecology documents

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regarding the contamination at this property are available online. Ecology's mapping tool indicates that this site is either located immediately adjacent to or within the Project Area.

Based on the location of this property (possibly within the Project Area); it is HWA's opinion this property has a high likelihood to cause adverse environmental impacts to the Project Area. HWA recommends sampling and analysis of soils and/or ground water (if encountered) prior to construction where excavation is to occur in the vicinity of this property.

**Crowley Environmental Services Corp/BEI Chempro Field Svcs PS (BEI):** 3400 East Marginal Way South, 150 feet east of western leg of East Marginal Way and east-adjointing property to eastern leg of East Marginal Way (Facility Site ID 2114, Cleanup Site ID 84). According to Ecology's CSD, this site has halogenated organics suspected in soils. No Ecology site documents regarding the contamination identified at this property are available online for review.

Based on the distance and unconfirmed soil impacts (suspected only); it is HWA's opinion this property has a low likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**Griffin Envelope Inc./Gunning John (Griffin),** 4301 East Marginal Way South and 21 South Nevada, west-adjointing property (Facility Site ID 79931991, UST Site ID 10580). According to a 1992 UST Site Check and Site Assessment report and Ecology 2016 Site Hazard Assessment (SHA) and NFA letter, Griffin property had six 300 to 1,000-gallon heating oil USTs and three 1,000 to 2,000-gallon gasoline USTs that were all removed in 1991 and 1992. Five of these USTs were located on the north side of the existing building, two were located on the west side of the building, and the location of the remaining two USTs was not identified. Exact locations of the USTs were not identified. After removal of these USTs, two rounds of cleanup excavation were conducted, after which all confirmation soil samples were below MTCA Method A cleanup levels for TPH, BTEX and lead. Ground water was not encountered in the UST excavations. Ecology concluded that the Griffin property no longer posed a threat to human health and issued and NFA for the site in 2016.

Based on the media impacted (soil only) with no remaining impacts exceeding cleanup levels; it is HWA's opinion this property has a low likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**Cascade Machinery/Cascade Machinery & Electric Inc.:** 4600 East Marginal Way South, east-adjointing property (Facility Site ID 23858669, Cleanup Site ID 8397). According to Ecology's CSD and a 2011 NFA letter, this site has TPH-Gx, TPH-O and benzene impacts to soil from a LUST. The LUST was reported to Ecology in 1990 and by 2002 soils were



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remediated to below cleanup levels. The CSD does not indicate impacts to ground water but the NFA letter notes that ground water was affected. No information regarding the number of LUSTs (single or multiple), location or extent of impacts, or soil/ground water COC concentrations were identified in the documents available for review. Based on a review of historical Sanborn Fire Insurance Maps (see Section 3.4), a “gasoline tank” was identified in the vicinity of this property and adjacent to the Project Area. However, it is unknown if this Sanborn identified tank was associated with the Cascade Machinery LUST impacts.

Based on the unknown location and extent of impacts to soil, and possibly ground water; it is HWA’s opinion the Cascade Machinery property has a moderate likelihood to cause adverse environmental impacts to the Project Area. HWA recommends sampling and analysis of soils and/or ground water (if encountered) prior to construction if excavation is to occur in the vicinity of this property.

**Ponchos Legacy Property (Poncho)**, 3685 Duwamish Avenue South, west-adjoining property (Facility Site ID 8613035, Cleanup Site ID 3221). According to Ecology CSD and 2015 SHA, the Poncho property was formerly an iron works and manufacturing facility, followed by a rubber belt manufacturing facility, and is currently a vacant property owned by the Port of Seattle. As part of the East Marginal Way Grade Separation Project, soil and ground water samples were collected from this property from 2005 to 2007 with analysis for TPHs, VOCs, metals, PCBs and PAHs. Soil samples indicated that cPAHs (at two feet bgs) and trichloroethylene (TCE, depth not noted) concentrations were above MTCA Method A cleanup levels in soils. Arsenic, total chromium, lead, and TCE were also detected above MTCA Method A cleanup levels in ground water. In 2007 potassium permanganate solution was injected into shallow ground water via direct-push probes and subsequent quarterly ground water monitoring indicated that arsenic and TCE were still above cleanup levels in 2008. The SHA notes that the 2008 data is the most recent data available for review in Ecology’s files. The ground water impacts above cleanup levels were detected in wells located approximately 300 feet from the west ROW of East Marginal Way South and 160 feet west of the East Marginal Way South offramp from the West Seattle Bridge. Ground water is located at approximately 4.5 to nine feet bgs with a ground water flow to the south or southwest.

Based on the distance and cross-gradient location of impacts to soil and ground water above cleanup levels; it is HWA’s opinion this property has a moderate likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**Seattle Port Terminal 104/Direct Container Line/Port of Seattle Terminal 106 NW (Terminal 106 NW)**: 3629 Duwamish Avenue South, west-adjoining property (Facility Site ID 2313, Cleanup Site IDs 1825 and 7817). Ecology’s CSD and 2015 SHA reports for each cleanup site ID indicate that this property is a former cargo and shipping terminal that is currently

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occupied by a warehouse utilized for storage, assembly, and product (exact type not specified) production. Cleanup Site ID 1825 is related to lead dust identified in the southwest corner of the parcel, and Cleanup Site ID 7817 is related to a LUST that was removed from the western portion of this property. During the early 1990s, assessments of this property identified lead above regulatory cleanup levels in the soil from airborne dust particles. These impacted soils were located over 1,000 feet from the Project Area and were remediated via excavation and revisions to workplace practices to reduce airborne dust. In 1991, a 3,000-gallon gasoline UST was removed from the vicinity of the southwest corner of the existing building on the property, over 1,000 feet from the Project Area. Soil samples collected from the excavation identified “petroleum hydrocarbons” above the MTCA Method A cleanup level at approximately eight to 10 feet bgs with ground water encountered at approximately nine feet bgs. Petroleum impacted soils were excavated but some TPH-Gx impacted soil was left in place due to the existing building. Subsequent to excavation, monitoring wells were installed and TPH-Gx and BTEX impacts above cleanup levels were identified in soils and ground water. The SHA notes that the Port of Seattle implied a remediation of natural attenuation for the LUST impacts and has not provided Ecology with information about the contamination on this property since 1995. Ground water flow is noted to be to the northwest toward the Duwamish River.

Based on the distance and downgradient location of the impacts to soil and ground water at this property relative to the Project Area; it is HWA’s opinion that the Terminal 106 NW property has a low likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**Chevron #4097/Chevron Seattle Terminal 4097 (Chevron 4097):** 4525 Diagonal Avenue South, west-adjointing property (Facility Site ID 2344, Cleanup Site ID 2132). According to a 2016 Ecology SHA, Chevron 4097 property consists of two parcels, an eastern parcel adjacent to the Project Area and a western parcel approximately 1,000 feet west of the Project Area. The eastern parcel was utilized to stockpile petroleum-impacted soils and gas station equipment from 1984 to 1992. The northwestern portion of the property was also utilized for land-farming petroleum-impacted soils and as a disposal pit to treat PCB impacted sediments. Land farmed soils were reportedly removed from the property in the early 1990s. Five thousand cubic yards of soil/fill material was excavated, and additional soil excavations occurred during the early 2000s. Soil and ground water investigations/monitoring conducted on the northwest and western portions of the property during the early 2000s to 2015 indicated impacts of TPHs, metals, PCBs, and PAHs above cleanup levels in soil and sediments. The SHA did not identify any impacts to the one monitoring well on the eastern portion of the property or include details regarding other potential investigations/contamination that may have occurred on the eastern parcel. Ground water is located at approximately 10 feet bgs and has tidally influenced flow from the adjacent west LDW.

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Based on the distance and downgradient location of impacts identified on this property relative to the Project Area; it is HWA's opinion that the Chevron 4097 property has a low likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**Alaskan Copper Works Seattle/3600 East Marginal Way South/Dragon Fly Forge (Dragon Fly Forge):** 3600 East Marginal Way South, adjacent to east leg of East Marginal Way South and 100 feet east of the west leg (Facility Site ID 11415, Cleanup Site ID 1404). According to Ecology's CSD and a 2015 SHA, the Dragon Fly Forge property was an "metal servicing facility" until 1992 (exact duration not noted). During the closure of a 2,800-gallon "passivation tank" a release from the tank was identified. Soil samples from the vicinity of the tank were analyzed with two samples having arsenic and/or trivalent chromium above cleanup levels. The location of this tank and the associated soil samples were approximately 120 feet east of the eastern leg of East Marginal Way South. The SHA notes that no reports regarding any further action or remediation activities at the Site were available for review in Ecology's files. The SHA also notes that ground water was not encountered during soil sampling and is expected to be at depths of less than 25 feet bgs with an inferred ground water flow to the west.

Based on the distance of impacts to soil with no ground water impacts identified; it is HWA's opinion the Dragon Fly Forge property has a low likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**Crescent Foods:** 25 South Hanford Street, east-adjoining property to eastern leg of East Marginal Way South and 130 feet east of western leg (No Facility Site ID or Cleanup Site ID). According the EDR database report, this site has "petroleum product" impacts to soil and ground water from a 1990s LUST. No Ecology site documents regarding the contamination identified at this property are available online.

Based on the upgradient location of this property relative to the Project Area and impacts identified (soil and ground water); it is HWA's opinion this property has a moderate likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**Horton Maintenance Shop/Port of Seattle/Seattle Port Seaport Maintenance/25 South Horton/Port of Seattle Horton Street (Horton Shop):** 25 South Horton Street, east-adjoining property to eastern leg of East Marginal Way South and 100 feet east of western leg (Facility Site ID 77424421, Cleanup Site ID 10484). According to Ecology CSD and a 2012 NFA letter, the Horton Shop property has TPH-Gx, TPH-Dx, BTEX, and waste oil impacts to soil and ground water above cleanup levels from a LUST that was reported to Ecology in 1990. No

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information regarding the location of the impacts or remedial actions that may have occurred were noted in the Ecology online documents.

Based on the upgradient location of the Horton Shop property and soil and ground water with remaining impacts above cleanup levels; it is HWA's opinion this property has a moderate likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**East Marginal Way Grade Separation Project ROW (EMW Grade Separation):** Duwamish Way South and South Spokane Street, 400 feet west (Facility Site ID 8257245, Cleanup Site ID 4105). This site is included in Ecology's CSCSL due to a 2007 discovery of the following contaminants: TPH-O confirmed above cleanup levels in soil and ground water, PAHs confirmed above regulatory cleanup levels in ground water but below the cleanup levels in soil, and arsenic below cleanup levels in soil and ground water. According to a 2015 Ecology SHA, this site is a former street ROW and marine terminal that is located approximately 400 feet west of the Project Area. Remedial activities including oxygen reducing compound injections, ground water monitoring, and unconfirmed contaminated soil excavation with some petroleum impacted soils remaining have occurred at this site. As of 2008, TPH-Gx, TPH-O, and xylene concentrations in ground water at this site were either below cleanup levels or not detected. Ground water flow at this site was inferred to be toward the east (based on topography).

Based on the distance of this site relative to the Project Area and the environmental impacts identified; it is HWA's opinion that the EMW Grade Separation site has a low likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in this vicinity.

**MCE Technologies Inc. (MCE):** 3670 East Marginal Way South, east-adjointing property to eastern leg of East Marginal Way South and 200 feet east of western leg (Facility Site ID 97358381, Cleanup Site ID 1685). According a 2014 Compliance Groundwater Monitoring Report and a 2016 NFA letter, the MCE property was occupied by a sheet metal facility until the 1960s followed by a heavy machine manufacturing company from the 1960s until 2001. Environmental investigations in the 1990s to 2007 identified TPH-O, arsenic, lead, cadmium, and PCBs above cleanup levels in soil and ground water. Impacted soils were noted at depths of two to eight feet bgs with source areas located over 400 feet east of the Project Area. Remedial excavations were conducted, and confirmation soil samples indicated that impacted soils had been removed with no COCs above cleanup levels remaining. Subsequent compliance ground water monitoring indicated that COCs in ground water were either not detected or detected at concentrations below cleanup levels, with COCs not detected in the two monitoring wells closest to (approximately 50 feet east of) the Project Area. In 2008, the site was redeveloped and a 2,000-gallon heating oil UST was identified near the southwest corner of the former building. A

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small excavation appears to have occurred in the vicinity of the heating oil UST but specific details regarding the excavation were not identified. The heating oil UST excavation was approximately 120 feet east of the east leg of East Marginal Way South and subsequent ground water monitoring of a well in between this removed UST and the Project Area did not detect any COCs. Ground water was noted to be at depths of seven to 18 feet bgs with a measured ground water flow direction to the southwest. Ecology issued an NFA status for the property in 2016.

Based on the remedial actions, NFA status, and no detections of COCs in monitoring wells closest to the Project Area; it is HWA's opinion the MCE property has a low likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**MC Terminals:** 40 South Spokane Street, 350 feet east of the east leg of East Marginal Way South and 450 feet east of the west of the west leg of East Marginal Way South (Facility Site ID 2372, Cleanup Site ID 3157). According to Ecology CSD, this site is included in Ecology's CSCSL due to discovery in 1991 that noted the following contaminants: halogenated organics confirmed above regulatory cleanup levels in ground water and suspected in soil; and base/neutral/acid organics and PAHs suspected in ground water and soil. No Ecology site documents regarding the contamination identified at this property are available online.

Based on the upgradient location of this property relative to the Project Area and the contaminants confirmed above cleanup levels in ground water; it is HWA's opinion that the MC Terminals property has a moderate likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**Irish Foundry/Nelson Iron Works (Irish Foundry):** 45 South Spokane Street, 425 feet east of east leg of East Marginal Way South and 560 feet east of west leg of East Marginal Way South (Facility Site ID 2417, Cleanup Site ID 3274). According to Ecology's CSD and a 2004 Further Action letter, this site is included in Ecology's CSCSL due to a 1992 discovery of contamination at the property (source not identified). COCs at this property are identified as "unspecified" TPH confirmed above cleanup levels in soil and suspected in ground water. Priority pollutant metals are also suspected in the soil and ground water. According to the 2004 Further Action letter, delineation of the contaminant plume followed by pumping and treating ground water from an existing sump were advised. No specific details regarding the type of TPH impacts, location of contamination, or remedial actions taken (if any) were included in this letter. No other Ecology site documents regarding the contamination identified at this property are available online.

Based on the distance of this property relative to the Project Area and the contaminants identified; it is HWA's opinion that the Irish Foundry property has a low likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field

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screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**Coast Crane Company of WA (Coast Crane):** 1531 Utah Avenue South, 250 feet east (Facility Site ID 17535113, Cleanup Site ID 8173). According to Ecology CSD, a 2004 Phase I ESA, and an Ecology 2013 SHA, the Coast Crane property had five 100 to 1,100-gallon USTs containing unleaded gasoline, leaded gasoline or waste oil that were removed from the property in 1996. Two waste oil aboveground storage tanks (ASTs), with 150 and 4,000-gallon capacities, were also removed from the property in 1989. The closest of these ASTs/USTs was the 4,000-gallon waste oil AST, which was located approximately 450 feet east of the Project Area. The Coast Crane property reportedly had soil and ground water contamination associated with LUSTs that were reported to Ecology in early 1989. Releases of TPH-Gx, TPH-Dx, TPH-O, and benzene to the soil and/or ground water were identified in 1988. Various remedial excavations and ground water monitoring were conducted in the vicinity of the removed USTs/ASTs. The most recent ground water report, dating from 1999, indicated a ground water monitoring well on this property that is closest to the Project Area had a TPH-Gx concentration of 54 micrograms per liter ( $\mu\text{g/L}$ ), below the current cleanup level of 800  $\mu\text{g/L}$ . This property has since been redeveloped and the Ecology SHA indicates that the redevelopment included subgrade parking, and affected soils were presumably removed during redevelopment.

Based on the distance of this property relative to the Project Area, the minimal ground water impacts identified in the monitoring well closest to the Project Area, and the Ecology opinion that redevelopment of this property with subgrade parking has likely remediated impacted soils; it is HWA's opinion that the Coast Crane property has a low likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**Emerald City Disposal Massachusetts/Emerald City Disposal (ECD):** 9 South Massachusetts, 350 feet west (Facility Site ID 82766892, Cleanup Site ID 6717). According to Ecology CSD, the ECD property has TPH-Gx confirmed above cleanup levels in soil and halogenated organics below cleanup levels in the soil but above cleanup levels in surface water. A LUST from this property was reported to Ecology in 1998 and cleanup at this property has reportedly started. Ecology's mapping tool indicates that this site is located on a tax parcel that according to King County tax assessor records is addressed at 1519 Alaskan Way South, which is the same address as the USCG property identified on several regulatory databases and discussed above. No Ecology site documents regarding the contamination identified at the ECD property are available online.

Based on the distance and downgradient location of this property relative to the Project; it is HWA's opinion that the ECD property has a low likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and

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ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**Seattle Port Term 106E/Port of Seattle/Port of Seattle Terminal #106 NW (Terminal 106):**

44 South Nevada Street, west-adjoining property (Facility Site ID 8781589, Cleanup Site ID 7816). According to Ecology's UST database, the Terminal 106 property reportedly had a 2,000-gallon heating oil UST, 2,000 and 3,000-gallon unleaded gasoline USTs, a 1,000-gallon leaded gasoline UST, and a 5,000-gallon diesel UST that were either closed in place or removed from the property in 1996. Ecology's CSD and LUST databases indicate this property has benzene confirmed above the cleanup level in ground water and remediated below the cleanup level in soil; lead above the cleanup level in soil; TPH-Gx above cleanup levels in soil and ground water, and TPH-"other" above the cleanup level in ground water but remediated to concentrations below the cleanup level in soil. According to a 2015 Ecology SHA, the closest of the Terminal 106 USTs was located approximately 150 feet west of the Project Area. No information regarding soil or ground water sampling in the vicinity of this closest UST was included in the SHA. The SHA indicates that the contamination identified at this property is located on the northwest and western extents of this property, over 700 feet west of the Project Area.

Based on the distance and downgradient locations of the closest UST and contamination identified on this property relative to the Project Area; it is HWA's opinion that the Terminal 106 property has a low likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**Ash Grove Cement/Lone Star Industries, Inc. (Ash Grove):** 3801 East Marginal Way South, west-adjoining property (Facility Site ID 2142, Cleanup Site ID 18, Superfund Enterprise Management System (SEMS) Site ID 1000618 and Environmental Protection Agency (EPA) ID WAD009249616). According to the EDR report, the Ash Grove property is identified on the SEMS-Archive database but does not qualify for the Superfund National Priority List (NPL) "based on existing information." A search of the EPA SEMS Search database did not identify the Ash Grove property or the associated address as a listed facility. Ecology's CSD notes an NFA was issued for this property in 1998 but the site was reopened in 2012. According to a 2015 Ash Grove SHA Response Letter (addressed to Ecology from Ash Grove Cement) and a 2016 Ecology SHA, the Ash Grove property has been utilized as a cement manufacturing facility since 1920 and has several known and suspected prior releases from USTs, chemical spills, PCB-containing transformers/equipment, and historic wastewater handling practices. As of the 2016 SHA, no confirmed releases to soil or ground water had been reported but halogenated organics, metals, TPHs, and PCBs were suspected to be present in the soil and/or ground water. The SHA also notes that Ash Grove has several violations on record relating to fugitive dust and air emissions from the facility. No other Ecology site documents regarding the contamination identified at this property are available online.

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Although no confirmed releases to soil or ground water have been reported for this property, based on the use of the property as a cement manufacturing facility since 1920, the suspected contamination identified at this property, and the notation of several violations on record relating to dust and air emissions; it is HWA's opinion that the Ash Grove property has a moderate likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**SR 519 Street Improvement:** Alaskan Way South, 700 feet east (Facility Site ID 8748379, Cleanup Site ID 4141). Ecology's CSD indicates this site is included in Ecology's CSCSL due to discovery and investigations in 2003-2004 that noted the following contaminants at the site: halogenated organics confirmed above cleanup levels in soil; metals above cleanup levels in soil and ground water; "unspecified" TPH above cleanup levels in soil and suspected in ground water; and PAHs above cleanup levels in soil and below cleanup levels in ground water. No Ecology site documents regarding the contamination identified at this site are available online. The Ecology CSD indicates that an alternate name for this site is the SR 519 Intermodal Access Project. From online research of this name, it appears that the SR 519 Intermodal Access Project involved building a westbound off-ramp from Interstate 90 and Interstate 5 to the South Atlantic Street overpass, a pedestrian bridge over railroad tracks on South Royal Brougham Way, and improvements to the First Avenue South and South Atlantic Street intersection. These areas of construction are at distances of 700 feet or more east of the Project Area.

Based on location/distances of construction identified for the SR 519 Street Improvement (alternate name on record with Ecology); it is HWA's opinion that the SR 519 Street Improvement site has a low likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in this vicinity.

**Terminal 37/Stevedoring Svs of America Terminal 37 Port (Terminal 37):** 1201 Alaskan Way South, 600 feet north (Facility Site ID 41668943, Cleanup Site ID 9056). According to Ecology's UST database, the Terminal 37 property reportedly had three unleaded gasoline and/or diesel USTs ranging in size from approximately 5,000 to 10,000-gallons that were removed from the property in 1996. In addition, this property has one 500-gallon waste oil UST that was closed in place on the property in 1996. Ecology's CSD for the property indicates that soil and ground water contamination associated with LUSTs were reported to Ecology in the early 1990s. TPH- "other" and benzene have been confirmed above regulatory cleanup levels in soil and ground water at Terminal 37. No Ecology site documents regarding the contamination identified at this property are available online.

It should be noted that according to King County assessor, the 1201 Alaskan Way South address is an approximately 1,153 square-foot tax King County Waste Water tax parcel that is approximately 600 feet north of the northernmost portion of the Project Area.



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Based on the likely distance of the Terminal 37 property from the Project Area; it is HWA's opinion that the Terminal 37 property has a low likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**Harbor Island (Lead):** Mouth of the Duwamish River, ¼ mile west (SEMS Site ID 1000949 and EPA ID WAD980722839). According to information obtained from the EPA SEMS Search database and Harbor Island (Lead) Superfund Site Profile, the Harbor Island (Lead) site is an NPL site that consists of Harbor Island, an approximately 420-acre island that supports businesses that conduct commercial and industrial activities, including ocean and rail transport operations. From these uses several "sites" on the island have environmental impacts that include "high levels" of contaminated ground water, sediment and soil with lead and "other contaminants" including but not limited to PCBs, arsenic, cPAHs, mercury, and tributyltin. The entire island and associated sediments are designated as a Superfund site. The profile summary indicates that to date, the Harbor Island (Lead) superfund cleanup sites have been cleaned up but contamination remains in both the upland soils and sediments at concentrations greater than allowable for unrestricted use. The Harbor Island (Lead) sites are undergoing long-term monitoring to ensure the cleanup activities are protective to human health and the environment. No air impacts were identified in the Harbor Island (Lead) Superfund Site profile

Based on the distance and location (across the LDW) and media impacted; it is HWA's opinion that the Harbor Island Lead property has a low likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**4735 E. Marginal Way South/US General Services Administration/US General Services Administration/US Army Corps of Engineers/GSA Federal Center S Bldg 1206/US Army Engineer Dist Seattle/US GSA Federal Center S/US DOI BIA Federal Center S/US AF Waterport Logistics Office/Federal Ctr So (US ACE):** 4735 East Marginal Way South, west-adjointing property (Facility Site IDs 18866 and 10233917, Cleanup Site IDs 12493 and 5512). According to Ecology documents available for review online, the US ACE property has two separate CSCSL listings due to two separate Ecology regulated sites on this property.

According to Ecology documents available for review online, the 36 acre US ACE property was first developed in 1930 as a Ford Motor manufacturing facility and operated as such until 1941 when it was sold to the United States government. These reports indicate that from 1942 until approximately 2012, the property use included, but was not limited to: a general depot, missile production, and assembly plant for railway cars. Historical topographic and Sanborn maps dating from the late 1940s to early 1970s note that this property was occupied by a US Quartermaster Depot. By 2012 some of the buildings associated with these former uses had been

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removed and a new building was constructed. This property currently serves as the US ACE headquarters.

The Ecology regulated site associated with the Facility Site/Cleanup Site IDs 18866/12493 (herein referred to as US ACE Site 1) is related to three 30,000-gallon Bunker-C/heating oil USTs that were removed in March 2014 from the southern-most portion of the US ACE property, approximately 900 feet south of the southern terminus of the Project Area. All impacted soils above MTCA Method A cleanup levels were remediated via excavation and offsite disposal, and subsequent quarterly ground water monitoring indicated that all COCs were either not detected or detected below MTCA Method A cleanup levels. Based on the distance of the US ACE Site 1 relative to the Project Area (900 feet), remedial actions, and ground water monitoring results; it is HWA's opinion that the environmental impacts from the US ACE Site 1 have a low likelihood to cause adverse environmental impacts to the Project Area.

The Ecology regulated site associated with the Facility Site/Cleanup Site IDs 10233917/5512 (herein referred to as US ACE Site 2) is related to impacts associated with the former military operations and production facilities on the northwestern (redeveloped) portion of the property, located approximately 400 feet west of the Project Area. Several investigations and remedial actions associated with removed USTs, a motor pool area, a debris fill area, and a volatile organic ground water plume have occurred at the US ACE Site 2 from 1998 to 2019. The soil and/or ground water impacts from these investigations consist of TPHs, VOCs including HVOCs, and metals. A 2013 Hydrogeologic Investigation of the US ACE Site 2 indicates that ground water is approximately 8 to 10 feet bgs with measured ground water flow directions to the south, east, and west on the US ACE Site 2. According to a 2019 Groundwater Monitoring Report, TPH and TCE concentrations above MTCA Method A cleanup levels were present in wells sampled in May 2019 and located approximately 450 to 700 feet west of the Project Area. No information regarding possible environmental investigations or remedial actions that may have occurred on portions of the US ACE property east of the US ACE Site 2 were available in the Ecology documents available for review online.

Based on the impacts identified at the US ACE Site 2 and the unknown condition of soil and ground water on portions of the US ACE property east of the US ACE Site 2; it is HWA's opinion that this property has a moderate likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**Perfection Smokery/Washington Fish and Oyster Company (Perfection Smokery):** 4660 East Marginal, east-adjointing property (Facility Site ID 57454884, Cleanup Site ID 6319). According a 2015 SHA, the Perfection Smokery property is former (and current) cold storage warehouse that had a LUST reported to Ecology in 1990 when two 1,500 gallon leaded gasoline USTs were removed from the east side of the property, approximately 250 feet east of the Project Area. Soil sampling indicated TPH-Gx and mineral spirits were above cleanup levels in the west

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sidewall at eight feet bgs. Ground water was also encountered in the excavation at approximately eight feet bgs with a slight sheen observed. Soils were overexcavated but excavation did not extend past the eastern property boundary. An east sidewall soil sample collected from seven feet bgs had TPH-Gx concentrations above cleanup levels while TPH-Dx and TPH-O were below. Subsequent soil samples analyzed from test pits in the vicinity of the UST excavation and during installation of a vapor extraction (VE) system within the UST excavation also contained TPH-Gx and BTEX concentrations above cleanup levels. Stockpiled soils from the UST excavation were placed above the VE system and the VE system was decommissioned in 1991. Ground water monitoring occurred from three wells during 1992 with TPH-Gx, ethylbenzene and xylenes above cleanup levels. The SHA notes that no ground water monitoring reports after 1992 were available for review in the Ecology files. Additional excavation of residual impacted soils was conducted in 1993 but TPH-Gx contaminated soils above cleanup levels were reportedly left in place due to utilities and the excavation was terminated at seven feet bgs when ground water was encountered.

Based on the upgradient location of the impacts at the Perfection Smokery property relative to the Project Area and soil and ground water impacts identified; it is HWA's opinion this property has a moderate likelihood to cause adverse environmental impacts to the Project Area. HWA recommends visual and olfactory field screening of soils and ground water (if encountered) during construction if excavation occurs in the vicinity of this property.

**Orphan Properties:** HWA also reviewed the EDR "Orphan Summary", which includes a list of unmapped sites. A total of 224 unmapped properties were identified as potentially being located within the Project Area Vicinity. The majority of these orphan properties were identified on the ERNS database, which is the Emergency Response Notification System used to store information on notifications of oil discharges and hazardous substances releases that are generally of relatively small quantities (less than five gallon). Some of the 224 orphan properties are addressed at locations identified on other regulatory databases and discussed above. Unless discussed above, none of the unmapped "Orphan Summary" sites were considered properties that could be potential issues for the Project Area.

## 5. PREVIOUS ENVIRONMENTAL REPORTS

The following environmental reports that include portions of, or are adjacent to, the East Marginal Way Project were obtained by HWA:

- *SR 99: Alaskan Way Viaduct & Seawall Replacement Program – Draft Environmental Impact Statement, Appendix U Hazardous Materials Discipline Report*, (AWV & Seawall Draft HazMat Report), prepared by Shannon & Wilson, Inc., dated March 2004.
- *SR 99: Alaskan Way Viaduct & Seawall Replacement Program – Supplemental Draft Environmental Impact Statement, Appendix U Hazardous Materials Discipline Report*, (AWV & Seawall Supplemental Draft HazMat Report), prepared by Shannon & Wilson, Inc., dated July 2006.
- *SR 99: Alaskan Way Viaduct & Seawall Replacement Program - Hazardous Materials Technical Memorandum South Holgate Street to South King Street Viaduct Replacement Project Environmental Assessment*, (AWV & Seawall HazMat Memo), prepared by Shannon & Wilson, Inc., dated June 2008.
- *Alaskan Way Viaduct Replacement Project– 2010 Supplemental Draft Environmental Impact Statement, Appendix Q Hazardous Materials Discipline Report*, (AWV Project HazMat Report), prepared by Parametrix, dated October 2010.
- *Alaskan Way Viaduct Replacement Project– Final Environmental Impact Statement, Appendix Q Hazardous Materials Discipline Report*, (AWV Project Final HazMat Report), prepared by Shannon & Wilson, Inc., dated July 2011.
- *Draft Hazardous Materials Analysis Report – East Marginal Way Project* (Draft HazMat Report- East Marginal Way Project), prepared by HWA GeoSciences Inc., dated March 16, 2018.

A summary of HWA's review of these previous environmental reports is provided below.

### 5.1 2004 AWV & SEAWALL DRAFT HAZMAT REPORT

The 2004 AWV & Seawall Draft HazMat Report (2004 HazMat Report) study area included an approximately 4-mile corridor along the Seattle waterfront that extended from the vicinity of West Denny Way to South Dakota Street. Sections of this study area included an approximately 1.75 mile stretch of roadway corridor that was within or adjacent to the East Marginal Way Project. This 1.75-mile section of the study area included the northern portion of the Project Area, Alaskan Way South, a portion of East Marginal Way that extends south approximately 0.9 mile from South Atlantic Street, and a portion of the east-adjoining State Route 99/AWV that extends approximately 0.25 mile north of the West Seattle Bridge.

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The 2004 HazMat Report indicated that the area in the vicinity of the Project Area was characterized by historic industrial and railroad land uses, filling, etc. as summarized in Section 2 of this report. Shannon & Wilson similarly concluded that the majority of properties located adjacent to the Project Area may have the potential for contamination issues. Shannon & Wilson identified several properties with documented releases adjacent to the Project Area, which are discussed in Section 4 above.

The 2004 HazMat Report also included a summary of environmental laboratory analyses of soil samples from 2002 geotechnical explorations and ground water samples collected from monitoring wells. The report notes that out of five borings advanced within the portion of the study area that extended from South Spokane Street to South King Street, contaminated soils were only encountered in one boring, boring B-15. Soils from B-15 contained low levels of fluoranthene and pyrene, typically associated with burned fuel and/or coal, and metals at background concentrations. The location of boring B-15, depth of the soil samples analyzed, and laboratory analytical data was not provided as part of the 2004 HazMat Report. “Shallow” ground water samples collected from the vicinity of the north end of Terminal 30 and east of Terminal 46 contained low concentrations of p-isopropyltoluene (7 mg/L) and TPH-Dx (400 mg/L), respectively. The exact locations and depths these ground water samples were collected from were not provided.

## **5.2 2006 AWV & SEAWALL SUPPLEMENTAL DRAFT HAZMAT REPORT**

The 2006 AWV & Seawall Supplemental Draft Project HazMat Report (2006 HazMat Report) study area consisted of the same study area as the 2004 HazMat Report and generally noted the same environmental concerns as the 2004 report discussed above. Additional subsurface borings within the study area that included environmental laboratory analysis occurred subsequent to the 2004 HazMat Report. However, these borings were located north of the Battery Street Tunnel, which is north of the East Marginal Way Project Area.

## **5.3 2008 AWV & SEAWALL HAZMAT MEMO**

The 2008 AWV & Seawall HazMat Memo (2008 HazMat Memo) study area in the vicinity of the East Marginal Way Project included the northern portion of the Project Area, the portion of Alaskan Way South that extends south approximately 850 feet from South Atlantic Street, and a portion of the east-adjointing State Route 99/AWV that extends to the vicinity of South Dakota Street, approximately 1.75 miles south of the northern extent of the Project Area.

The 2008 HazMat Memo noted similar environmental concerns in the vicinity of the Project Area as the previous HazMat reports reviewed, i.e., industrial and railroad operations and fill underlying the study area. Terminal 30 and GATX properties, adjacent to the western side of the Project Area and discussed in Section 4 above, were noted to be substantially contaminated with TPH-Dx and TPH-O, and GATX was also noted as substantially contaminated with solvents. The majority of the remaining properties adjacent to or in the vicinity of the Project Area were noted as “reasonably predicable” for having potential contaminant releases of TPH, solvents, metals, PAHs, and/or PCBs.

This report indicated that limited environmental soil and/or ground water sampling was conducted within the 2008 HazMat Memo study area during 2002 to 2007 geotechnical and environmental investigations. A summary of these previous investigations indicated that petroleum contamination occurs “sporadically” along the portion of Alaskan Way South located south of South Royal Brougham Way. No metal detections exceeded dangerous waste criteria. In addition to the ground water detections discussed in the summary of the 2004 HazMat Report (Section 5.1 above), a detection of TPH-O above the cleanup level in a ground water sample collected from approximately 200 feet north of South Atlantic Street was identified. Total metal detections in ground water samples were noted to be within established King County combined sewer discharge criteria. The exact locations, sample depths and specific sample collection dates for environmental soil and ground water samples were not identified in the report.

#### **5.4 2010 AWW PROJECT HAZMAT REPORT**

The 2010 AWW Project HazMat Report (2010 HazMat Report) study area included a section of the AWW located adjacent to the northern approximately quarter mile section of the Project Area. The 2010 HazMat Report indicated that this portion of the study area was primarily industrial in nature, including past and current railway operations, and the area was underlain by fill. The main contaminants of concern from the industrial operations were considered to be metals, solvents, and petroleum, and were thought to be of low to moderate risk in the vicinity of the Project Area. Contaminants from the fill were also noted as a potential affected environment for the 2010 HazMat Report study area.

#### **5.5 2011 AWW PROJECT FINAL HAZMAT REPORT**

The 2011 AWW Project Final HazMat Report (2011 HazMat Report) study area included the same Project Area section as the 2010 AWW Project HazMat Report and noted the same risk levels for this area (low to moderate) as the 2010 report discussed above.

The 2011 HazMat Report also included a summary of 2002 to 2010 environmental subsurface investigation results from a total of 1,400 subsurface soil samples. Of these 1,400 samples, 12 were collected from just north of the Project Area (portion of East Marginal Way South that extends between South Atlantic Street and South Royal Brougham Way). The Project Area soil samples were analyzed for one or more of the following constituents: TPH, VOCs, PCBs, PAHs, and metals. Soil samples collected from the Project Area and from depths of less than 20 feet bgs (the anticipated maximum Project Area excavation depth) contained concentrations of arsenic at 20 mg/kg, the MTCA Method A cleanup level, and concentrations of cPAHs, benzene and TPH-Gx that were above the MTCA Method A cleanup levels.

In addition, the 2011 HazMat Report discusses ground water sample results included in a 2010 Environmental Considerations Report. Reportedly a total of 290 ground water samples were collected from 176 monitoring wells or geoprobes. The samples were analyzed for VOCs, TPHs, PAHs, methane, sulfides, total and dissolved metals. The 2011 HazMat report noted that widespread ground water contamination or contaminated ground water plumes were not detected

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in the monitoring wells installed along the 2011 HazMat Report study area. No ground water sample locations or analytical results were identified in this report for the Project Area.

#### **5.6 2018 DRAFT HAZMAT REPORT - EAST MARGINAL WAY PROJECT**

The 2018 Draft Hazardous Materials Analysis Report - East Marginal Way Project (2018 Draft HazMat Report) study area included the same sections of Alaskan Way South and East Marginal Way as this 2019 study plus portions of East Marginal Way South that extended south of South Diagonal Street to the 1<sup>st</sup> Avenue South Bridge. The 2018 Draft HazMat Report concluded that evidence of potential hazardous materials conditions that could potentially impact the soil and/or ground water existed along essentially the entire project corridor. The conditions identified included: regulatory listed properties with soil and/or ground water contamination; historical and current adjoining property uses; and/or dredged materials from the LDW or artificial fills placed along essentially the entire project corridor.

## **6. PROJECT AREA RECONNAISSANCE**

HWA performed a visual reconnaissance of the Project Area and adjacent properties on November 20, 2019. The reconnaissance included a windshield survey from public ROWs or accessible public properties. The reconnaissance was performed to observe and record the physical settings and conditions at ground surface as they may relate to environmental contamination, illegal dumping or disposal activities, and/or improper storage of hazardous or regulated materials.

Section 2 (above) describes the setting, characteristics, and use of the Project Area and adjacent properties. Our reconnaissance confirmed these conditions. No obvious and visible evidence of hazardous materials use, storage or release was observed during our reconnaissance of the Project Area. Photographs taken during our reconnaissance are included in Appendix A.



## 7. AFFECTED ENVIRONMENT

HWA performed a hazardous materials analysis of the Project Area to identify and report the potential presence of hazardous materials conditions that might be encountered or negatively affect the East Marginal Way Corridor Design Improvements Project. This section summarizes specific environmental concerns for these conditions.

Based on our data collection, field reconnaissance, and evaluation activities; evidence of potential hazardous materials conditions at or potentially impacting the soil and/or ground water of the Project Area were identified. These conditions include:

- **Contaminated Sites:** Approximately 1,000 regulatory-listed properties were identified on multiple regulatory databases. Of these, the vast majority were considered to be no impact properties and were eliminated from further consideration. The remaining 30 regulatory-listed properties were further evaluated for their potential risk to the Project Area. Fifteen of these 30 properties are considered low impact properties that are not anticipated to result in contamination being encountered during construction. Twelve properties are considered to be moderate impact properties that have a reasonable potential for contaminants to migrate to and impact the Project Area, but there is no conclusive evidence. The remaining three properties are considered high impact and anticipated to pose a risk of contamination being encountered in the Project Area during construction.
- **Historical and/or Current Adjoining Property Uses:** Properties adjacent to the majority of the Project Area were identified as having historical and/or current maritime, railway, industrial and commercial uses that could have resulted in potential releases of hazardous materials to the surrounding environment. The contaminants with highest probability to be associated with these historic and/or current property uses include metals, solvents, and petroleum hydrocarbons. Some of these historical uses could result in potential abandoned UST(s) located within or in close proximity to the Project Area.
- **Physical Environment:** Dredged material from the LDW and other artificial fill (including coal, slag, garbage and other debris) is present along essentially the entire Project Area corridor. Potential contaminants in these fill materials could include petroleum hydrocarbons, heavy metals, creosote (from treated wood), PAHs, solvents, PCBs, and other contaminants.

Potential construction impacts and recommended mitigation measures to address suspect impacted materials that could be encountered during construction are discussed below and should be included in construction documents.

## **8. CONSTRUCTION AND PROPERTY IMPACTS AND MITIGATION**

Based on the affected environment conditions noted above, there is the potential to encounter hazardous materials within several areas of the Project Area footprint. Potential also exists for an accidental release of hazardous materials to the environment, either by construction activities where hazardous materials exist, encountering unknown subsurface features (e.g., USTs), or from release of hazardous materials utilized during the construction process. Encountering or accidental release of hazardous materials during construction could result in risks to human health or the environment, create potential liabilities, increase project costs, and/or cause schedule delays. In addition, the potential for property acquisition liability exists for acquisition of land that may have adverse environmental impacts.

The following sections discuss the potential construction and property related impacts of the project and the recommended mitigation measures for these impacts.

### **8.1 PROJECT CONSTRUCTION IMPACTS**

The East Marginal Way Corridor Design Improvements Project has the potential to encounter hazardous materials during construction activities, with the most likely being petroleum hydrocarbons, metals, and solvents. A large number of the adjoining properties to the Project Area have historically been, or are currently utilized as, maritime, railway, and industrial facilities as well as commercial properties such as gasoline service stations and automobile repair facilities. As a result of these historic and current property uses, potential construction impacts could include the exposure of workers or the public to:

- Contaminated soil and ground water within the Project Area;
- Potential abandoned USTs within or in close proximity to the Project Area that could potentially contain hazardous substances and may have releases to the environment; and/or
- Unintentional alteration of contaminant migration pathways, e.g., in utility trench permeable backfill below the ground water table.

Based on the finding that dredged materials from the LDW and/or “artificial fill” has been placed on the majority of the Project Area and adjoining properties, low levels of contaminants could be present in soil and ground water within the Project Area footprint. In addition, given the current and historical land use of the Project Area (generally industrial), the likelihood of encountering contaminants in the soil and/or ground water within the Project Area is further increased.

Review of environmental regulatory-listed properties indicates that the likelihood of encountering contamination is greatest in the vicinity of properties considered to be moderate or high-risk impact sites. These moderate and high-risk impact sites are located in various areas throughout the Project Area corridor and shown on Figure 3. Hazardous materials that could be encountered in the Project Area adjacent to these moderate and high-risk impact sites include, but are not limited to petroleum hydrocarbons, volatile organic compounds (e.g., BTEX,

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naphthalene), halogenated and non-halogenated solvents, metals, PAHs, and PCBs. In general, construction workers for the East Marginal Way Corridor Design Improvements Project are the most likely to be exposed to contaminants. Minimization of construction worker exposure is described in Section 8.2 below.

During the historical Sanborn map review, three locations were identified as potentially having gasoline tanks, possibly USTs, located on or within approximately 10 feet from the Project Area. In addition, the potential exists that other undocumented or abandoned USTs may be encountered within the Project Area during construction activities. Encountering an abandoned UST with remnant contents could result in a release of hazardous materials to the environment. If any USTs are encountered during Project Area construction activities, it must be reported to Ecology and the appropriate UST evaluation must be conducted. Encountering an abandoned UST could create impacts on the project in general. These impacts could include: decommissioning the UST, soil and/or ground water sampling, increased project costs, and schedule delays.

During the East Marginal Way Corridor Design Improvements Project, the potential exists for hazardous materials to be released into the environment unintentionally by construction equipment and hazardous materials utilized during construction activities. Unintentional releases can occur from the improper transfer and storage of fuels, spills that occur during refueling of equipment, or heavy equipment malfunction (e.g., hydraulic or fuel line ruptures). There is also the potential for waste materials from heavy equipment, such as oil and grease, to enter stormwater runoff from the Project Area. Contaminated stormwater runoff has the potential to affect soil and/or ground water where impermeable surfaces are not present. Hazardous materials, including but not limited to, paints, acids for cleaning, solvents, raw concrete, and concrete-curing compounds could be utilized during construction activities and may enter the environment if not managed correctly. In addition, heavy construction equipment or vehicles could potentially track and spread contaminated soils offsite, unless properly managed.

## **8.2 CONSTRUCTION MITIGATION MEASURES**

### **8.2.1 Storm water**

Mitigation measures to avoid or reduce the spread of contamination during construction include Best Management Practices (BMP) for stormwater and erosion control. Requirements for stormwater management, erosion control, and spill prevention are typically provided in State (e.g., Ecology *Stormwater Management Manual for Western Washington*), County (e.g., *King County Surface Water Design Manual*) or City (e.g., *Seattle Stormwater Manual*) manuals. The project-applicable manual will provide presumptive design approaches and list BMPs to prevent pollution, control stormwater flows, and protect resources during construction. Such BMPs typically include:

- Minimize the areas of exposure
- Retain vegetation where possible

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- Route surface water through temporary drainage channels or piping around and away from exposed soil
- Intercept and drain water from any surface seeps when they are encountered
- Use silt fences, silt dikes, check dams, etc. to retain possible eroded material on site
- Use erosion control matting, mulching, sodding, or plastic covering on exposed soil as needed
- Conduct construction during the dry summer months
- Seed or plant appropriate vegetation on exposed areas as soon as work is completed

Project specific documentation will likely include a Construction Stormwater Pollution Prevention Plan (SWPPP) and may include a Spill Plan and a Construction Sediment and Erosion Control Plan.

The SWPPP will identify how the project intends to control pollution generated during the construction phase, and includes 12 elements:

- Mark clearing limits
- Establish construction access
- Control flow rates
- Install sediment controls
- Stabilize soils
- Protect slopes
- Protect drain inlets
- Stabilize channels and outlets
- Control pollutants
- Control de-watering
- Maintain BMPs
- Manage the project

A Spill Plan would address the use, handling, storage, and disposal of hazardous materials that could be utilized during project construction activities. The Spill Plan would also address the prevention of and response to potential releases of hazardous materials used or encountered during project staging and construction

A Construction Sediment and Erosion Control Plan identifies BMPs to prevent or minimize stormwater transport of potential contaminants into surface water or ground water during construction activities.

### **8.2.2 Underground Storage Tanks**

Abandoned or unreported USTs that may be encountered during project construction can be removed or protected and maintained (if allowed and feasible) during construction. Applicable local and Ecology UST reporting and removal regulations will be followed if abandoned USTs are encountered.

### **8.2.3 Health and Safety**

Appropriate health and safety measures will be taken during excavation in areas where contaminated soils, sediment, surface water, or ground water could be present. These measures will include, as needed:

- Preparing a project site-specific health and safety plan
- Monitoring air quality
- Using protective and decontamination measures
- Providing worker training and certification
- Medical monitoring

Project construction specifications will include all existing site assessment data and health and safety requirements. The contractor will be required to:

- Review the available environmental data for the site and inspect the site to identify potential hazards for workers.
- Comply with all applicable health and safety regulations, including, State of Washington Department of Labor and Industries General Occupational Health Standards, Chapter 296-62 Washington Administrative Code (WAC) and General Safety and Health Standards, Chapter 296-24 WAC.
- Institute a corporate health and safety program and have (when required based on site conditions) workers who are trained in hazardous waste site health and safety issues in accordance with 29 Code of Federal Regulations (CFR) 1910.120 of the Federal Register and Chapter 296-62 of the Washington Administrative Code, and personal protective equipment for employees as needed.
- Identify hazards and develop and implement an appropriate Health and Safety Plan (HASP) for all activities involving contaminated materials. The HASP should include information on potential hazardous materials that may be encountered, appropriate personal protective equipment, worker safety procedures for handling of media and hazardous materials, exclusion zone procedures, and training or certification requirements for workers.

### **8.2.4 Contaminated Media**

#### **Planning Documents and Specifications**

A contaminated media management plan (CMMP), which details proper characterization, management, storage, disposal, and reporting of hazardous materials that may be encountered during construction activities, should be developed for construction activities. Alternatively, or in conjunction with a CMMP, project specifications should be developed which address the same issues. These documents outline the roles and responsibilities of personnel; health and safety requirements; methods and procedures for characterizing, managing, storing, and disposing of waste; and reporting requirements. They also address handling and disposal of soil, debris (e.g., railroad ties, timbers, wooden piles), and ground water encountered during project construction.

Project specifications may include SDOT Standard Specifications, general special provisions (GSPs), or special provisions (project specific specifications) if needed. Typically, GSPs are added to the construction contract when contamination is predicted but not known. Special Provisions are used for known contamination. These specifications inform the Contractor of known or potential contaminants and the investigative reports that are available for the Contractor's review.

Project specifications for contaminated media testing, handling and disposal should include provisions for:

- Excavation and disposal of contaminated soil
- Licenses and permits
- Submittals
- Safety and health
- Notification and suspension
- Soil sampling and testing
- Soil storage/stockpiling
- Soil transport
- Profiling/manifests
- Disposal
- Decontamination
- Certification of waste weight and disposal
- UST removal and closure

Pay items may be assigned lump sum bid items, unit rate bid items, or be paid via Force Account. Often contaminated soil unit rate bid items are inflated by bidders if not a major portion of the project. If using unit rate bid items, provide an engineer's estimate of quantity, but since the estimate is poorly constrained, include a provision excluding these bid items from adjustments to unit prices per Section 1-04.6 of the WSDOT standard specifications (i.e., Variation in Estimated Quantities, which specifies adjustment if quantities vary by +/- 25%). Measurement and payment for soils going to any licensed facility should be per ton, not cubic yard, as they will be weighed at the receiving facility. Other soils can be per cubic yard, per standard specifications for measurement and calculation of yardage.

## **Soil**

Excavated soils along the majority of the Project Area may contain common contaminants including petroleum hydrocarbons, metals, and solvents. Some excavated soils generated during construction that require off site removal (i.e., net export soils) that do not contain contaminants exceeding cleanup levels may still require treatment or disposal at a licensed facility, as many fill sites will not accept soils with staining, odor, or detectable concentrations of contaminants, and liability may be incurred by the project owner for improper disposal of soils. The cost premium

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to dispose of some soils below cleanup levels yet above unrestricted use criteria may therefore still be similar to that for “contaminated” soils.

Treatment and disposal options will be selected based on the nature and concentration of contaminants. Locations for temporary onsite storage and containment of contaminated materials will be identified to minimize interference with construction activities and inadvertent spreading or release of the contaminated materials. Construction bid documents (CMMP, plans and specifications) will include all available analytical results and provisions for testing, handling, treatment, and/or disposal of contaminated materials.

Potential categories for impacted soils are as follows:

- Reuse on site above ground water, if structurally suitable and below cleanup levels.
- Off-site disposal at an unregulated fill site, for soils that meet criteria for unrestricted use.
- Off-site disposal at a permitted fill site, i.e., a facility licensed to accept soils meeting certain permit criteria (e.g., for some mine reclamation sites, TPH-Gx <100 mg/kg, TPH-Dx and TPH-O < 460 mg/kg, Metals < MTCA Method A cleanup levels).
- Off-site disposal at permitted RCRA Subtitle D landfill, e.g., Republic Services or Waste Management, for most soils with contaminants exceeding unrestricted use criteria.
- Soils designated as dangerous wastes under WAC 173-303-090/100 (e.g., certain solvents, metals, PCBs, or other contaminants at certain concentrations) would need to be disposed of or treated at a RCRA Subtitle C landfill.
- Certain solvent impacted soils determined to be below the dangerous waste criteria could be disposed of a RCRA Subtitle D landfill with a contained-in-determination from Ecology.

The project owner should obtain a release of liability for all soils accepted at off site facilities or fill sites.

Sampling of soils would be required to assign the correct soil disposal category to excavated materials. The CMMP and project specifications will specify testing protocol to establish waste categories. Field screening during construction consisting of visual and incidental (i.e., not deliberate) olfactory observations is more likely to detect petroleum hydrocarbons and volatile organic compounds. Metals, PAHs, PCBs, and some semivolatile organics are not likely to be detected in this manner, as they generally have no odor or visual distinctions.

Net export excavated soils should be disposed of according to their classification. Soil disposal costs at unregulated fill sites range from \$25 to \$60 per cubic yard. Disposal costs for some soils exceeding unrestricted use criteria may be similar to that for “contaminated” soils. The majority of impacted soils excavated will likely be considered non-hazardous wastes and can be disposed of at a Subtitle D landfill. Disposal costs for non-hazardous soil ranges between \$60 to \$100 per ton. Although not considered likely, soils classifying as hazardous waste, if encountered, will require disposal or treatment at a Subtitle C landfill. Disposal cost for hazardous wastes ranges

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between \$150 to \$300/ton. Some soils contaminated with certain hazardous constituents (particularly tetrachloroethylene and TCE) may be exempt from management as hazardous wastes per Ecology's "Contained-In-Policy" if the concentration of the contaminant is low enough, with disposal costs similar to nonhazardous soils. Obtaining a contained-in determination from Ecology can take up to four to eight weeks and could create project delays.

### **Water**

Mitigation measures for disposal of dewatering effluent should include coordination with local jurisdictions, and compliance with the applicable stormwater manual. Potential dewatering discharge options include:

- Discharge under permit to sanitary sewer
- On-site storage and settling prior to discharge
- On-site chemical or physical treatment prior to discharge
- On-site infiltration/dispersal
- Off-site treatment/disposal

Criteria (chemical concentrations) for disposal to sanitary sewer under permit are typically much higher than for discharge to the storm drainage system, with most dewatering effluent suitable for discharge with little or no pre-treatment. Conversely, discharge to the storm drainage system typically requires very high quality water, with regards to chemical concentrations and also turbidity.

Potentially contaminated dewatering effluent may require storage in tanks and testing prior to discharge, treatment or disposal, and other applicable requirements. This may include planning and design for treatment of water, obtaining appropriate disposal or discharge permits, and compliance sampling and reporting.

Project specifications for contaminated media testing, handling and disposal should include provisions for:

- Contaminated dewatering testing
- Water storage
- Water treatment and disposal or discharge

Disposal/treatment costs for contaminated water varies from around \$0.30 to \$1.00/gallon for off site transport and disposal, to around \$0.006/gallon for discharge under permit to sanitary sewer, although some sewerage agencies have limits on discharge quantities, location and timing.

Mitigation measures for unintentional alteration of contaminant migration pathways, e.g., in utility trench permeable backfill below the ground water table, may include installation of check dams in the trenches at selected intervals or downgradient of known or encountered contamination.



### **8.3 PROPERTY PURCHASE IMPACTS**

Right of way and/or permanent easement purchases could occur as part of the East Marginal Way Corridor Design Improvements Project. Purchases of properties with known or potential hazardous materials conditions or contamination may present a liability to SDOT because under MTCA, SDOT may be considered a potentially liable party by Ecology for cleanup actions because they are purchasing land with known contamination.

Under MTCA, cleanup liability is joint, strict, and several, and may apply to any party with a past or present relationship to a contaminated site. MTCA does offer some protection from off site contamination that has migrated into the Project Area from off-site sources. Under the statutory exemption, a landowner whose property has been contaminated by a plume of ground water from a nearby property may be exempt from statutory liability if:

- The contamination was caused "solely" by the off-site source
- The hazardous substance involved in the contamination has not been used or disposed of on the property "in a manner likely to cause or contribute to a release"
- The property owner does not interfere with contamination remediation
- The property owner does not engage in any activities that create exposure to the contaminated ground water
- The property owner allows access by Ecology or other parties to perform remediation.

Other liabilities associated with purchasing a contaminated property can include 1) environmental covenants which place restrictions on current or future property use; 2) schedule delays; 3) worker and public safety hazards; 4) third party claims; or 4) increased regulatory agency oversight.

### **8.4 PROPERTY PURCHASE MITIGATION**

Mitigating potential liability from property purchases is typically accomplished via the due diligence process. Conducting due diligence prior to property purchases may achieve the following objectives:

- Satisfying the requirements necessary to establish the innocent landowner defense under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
- Providing Superfund liability limitations for bona fide prospective purchasers and contiguous property owners. Such parties must undertake "all appropriate inquiry" into prior ownership and use of a property at the time of property acquisition.
- Satisfying the requirements of brownfields grants awarded under CERCLA Section 104(k)(2)(B)(ii)

Environmental due diligence on properties to be purchased is generally recommended to determine the potential for acquiring environmental liability. The due diligence typically includes the completion of Phase I ESA and/or Phase II Subsurface Investigations (based on the results of the Phase I ESA).

Based on information provided by WSP, one partial property acquisition may be anticipated for the East Marginal Way Corridor Design Improvements Project. Other permanent easements or partial/full property purchases could potentially occur. In addition, it is possible that temporary construction easements could also be required as part of this project.

Based on the impacts identified in this study, Phase I ESAs may be recommended for property purchases associated with this project. Follow up Phase II ESAs may also be recommended based on results of the Phase I ESAs. Phase II ESAs may be conducted for property purchases in areas where known contamination has been identified on or adjacent to the Project Area.

Other mitigation measures to address potential liability from property purchases include:

- Assigning liability and costs of hazardous materials impacts prior to and as part of property transactions (i.e., in purchase and sale agreements)
- Cost recovery actions. SDOT may seek cost recovery under MTCA from third parties for effects from off site contamination through a Private Right of Action.
- Use of Agreed Order and/or Consent Decree to establish cleanup liability.

## **8.5 SIGNIFICANT UNAVOIDABLE ADVERSE EFFECTS**

No significant unavoidable adverse effects that cannot be reasonably mitigated for are anticipated for this project.

## **9. OPERATIONAL IMPACTS AND MITIGATION**

### **9.1 PROJECT OPERATION AND MAINTENANCE IMPACTS**

On-going and future remediation of properties adjacent to the Project Area could be impacted by the operation of new facilities installed underground as part of the project construction. Underground utilities and signal pole installations or other project improvements could physically obstruct remediation of soil or ground water, which may result in contamination being left in place or require the cleanup operation take extra measures to protect and support these features. Underground utility corridors can also act as contamination migration conduits due to permeable backfill materials. The migration of contamination in utility corridors could result in the transportation of contaminants to less contaminated areas.

Potentially contaminated soil or ground water on adjacent properties and within the ROW could also affect maintenance activities for the completed project. If maintenance activities were to require excavation, existing adverse soil or ground water impacts could create unsafe conditions for workers and the public or require additional cost for health and safety measures, disposal of excavated soils, or dewatering activities.

Operation and maintenance of the East Marginal Way Corridor Design Improvements Project features is not expected to result in the release of hazardous materials into the environment from unintentional spills (i.e., hazardous materials spills during maintenance work or equipment malfunction). If an unintentional release occurred, hazardous materials could potentially migrate to surface water, soil, and/or ground water. Impacts could include road closures and delays, cleanup costs, and regulatory fines. However, no long-term or significant effects are anticipated with regards to the project operation and maintenance.

### **9.2 OPERATIONAL MITIGATION MEASURES**

In general, operation and maintenance of the project would not be likely to increase the risk of releasing contaminants into the environment and the use of BMPs could further minimize the potential for adverse impacts. Therefore, no mitigation would be required. However, it may be prudent to include mitigation measures consisting of 1) check dams in utility trenches below ground water in areas of major ground water contamination to reduce preferential pathways or 2) health and safety/operation and maintenance plans for future utility repairs or work in contaminated areas.

## 10. CONCLUSIONS

HWA performed a hazardous materials analysis of the East Marginal Way Corridor Design Improvements Project corridor to identify potential hazardous materials conditions that might impact the project. Potential hazardous materials conditions identified include:

- **Contaminated Sites:** Approximately 1,000 regulatory-listed properties were identified on multiple regulatory databases. Of these, the vast majority were considered to be no impact properties and were eliminated from further consideration. The remaining 30 regulatory-listed properties were further evaluated for their potential risk to the Project Area. Fifteen of these 30 properties are considered low impact properties that are not anticipated to result in contamination being encountered during construction. Twelve properties are considered to be moderate impact properties that have a reasonable potential for contaminants to migrate to and impact the Project Area, but there is no conclusive evidence. The remaining three properties are considered high impact and anticipated to pose a risk of contamination being encountered in the Project Area during construction.
- **Historical and/or Current Adjoining Property Uses:** Properties adjacent to the majority of the Project Area were identified as having historical and/or current maritime, railway, industrial and commercial uses that could have resulted in potential releases of hazardous materials to the surrounding environment. The contaminants with highest probability to be associated with these historic and/or current property uses include metals, solvents, and petroleum hydrocarbons. Some of these historical uses could result in potential abandoned UST(s) located within or in close proximity to the Project Area.
- **Physical Environment:** Dredged material from the LDW and other artificial fill (including coal, slag, garbage and other debris) is present along essentially the entire Project Area corridor. Potential contaminants in these fill materials could include petroleum hydrocarbons, heavy metals, creosote (from treated wood), PAHs, solvents, PCBs, and other contaminants.

Recommended mitigation measures to address these impacts include:

- Perform appropriate due diligence for any property purchases, including Phase I or II ESAs, as needed;
- Field screen soils and ground water during excavation activities for indications of contamination. If suspect soils and/or ground water are encountered during construction, or in areas of known contamination, perform sampling and laboratory analysis to characterize the materials for proper management, handling, and disposal, including appropriate health and safety measures and compliance with applicable local, state and federal regulations;
- Develop protocol and select areas for field screening, sampling, and laboratory analysis based on the evaluation of adjoining known contaminated sites presented herein.

May 26, 2020

HWA Project No. 2019-087-22

- Utilize best management practices for stormwater and erosion control;
- Follow Ecology UST reporting and removal regulations if abandoned or unreported regulated USTs are encountered during construction;
- Apply appropriate health and safety measures;
- Develop a CMMP and project specifications which outline proper testing, handling and disposal of any contaminated soil or water encountered during project construction. Project specifications may include WSDOT Standard Specifications, GSPs, or special provisions (project specific specifications) if needed. Typically, GSPs are added to the construction contract when contamination is predicted but not known. Special Provisions are used for known contamination. These specifications inform the Contractor of known or potential contaminants and any reports available for the Contractor's review.

Some excavated soils generated during construction that require off site removal (i.e., net export soils) that do not contain contaminants exceeding cleanup levels may still require treatment or disposal at a licensed facility, as many fill sites will not accept soils with detectable concentrations of contaminants, and liability may be incurred by the project owner for improper disposal of soils.

## **11. LIMITATIONS**

The conclusions expressed by HWA GeoSciences Inc. are based solely on material referenced in this report. Observations were made under the conditions stated. Within the limitations of scope, schedule and budget, HWA attempted to execute these services in accordance with generally accepted professional principles and practices in the area at the time the report was prepared. No warranty, express or implied, is made. HWA's findings and conclusions must not be considered as scientific or engineering certainties, but rather as our professional opinion concerning the significance of the limited data gathered and interpreted during the course of the assessment.

This study and report have been prepared on behalf of WSP and SDOT and is solely for use in an environmental evaluation. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

Unless specifically stated in the report, HWA has not performed specific testing or analysis to determine the presence or absence of any chemical, physical, radiological, or biological hazard or condition, including, but not limited to: underground storage tanks, wetlands, asbestos containing materials, lead-based paint, lead in drinking water, radon, metals, petroleum hydrocarbons, volatile organics, pesticides, or PCBs.

## **12. CERTIFICATION STATEMENT**

HWA employees Mr. Arnie Sugar and Ms. Nicole Kapise, both Environmental Professionals as defined in ASTM Practice E-1527-13, conducted this Hazardous Materials Analysis Report. It is HWA's opinion that this Hazardous Materials Analysis Report has taken into account all potentially significant impacts that could affect the Project Area and that the report documents conditions that may present adverse environmental impacts. Where readily available data was limited with regards to environmentally regulated properties or specific issues, the Environmental Professionals provided their best professional opinion on the impact to the Project Area.



May 26, 2020

HWA Project No. 2019-087-22

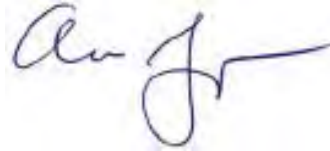
We appreciate the opportunity to provide professional services on this project. Please feel free to call us if you have any questions or need more information.

Sincerely,

**HWA GEOSCIENCES INC.**

A handwritten signature in blue ink that reads "Nicole Kapise". The signature is written in a cursive style with a large 'N' and 'K'.

Nicole Kapise  
Senior Environmental Geologist

A handwritten signature in blue ink that reads "Arnie Sugar". The signature is written in a cursive style with a large 'A' and 'S'.

Arnie Sugar, LG, LHG  
Principal Hydrogeologist



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May 26, 2020

HWA Project No. 2019-087-22

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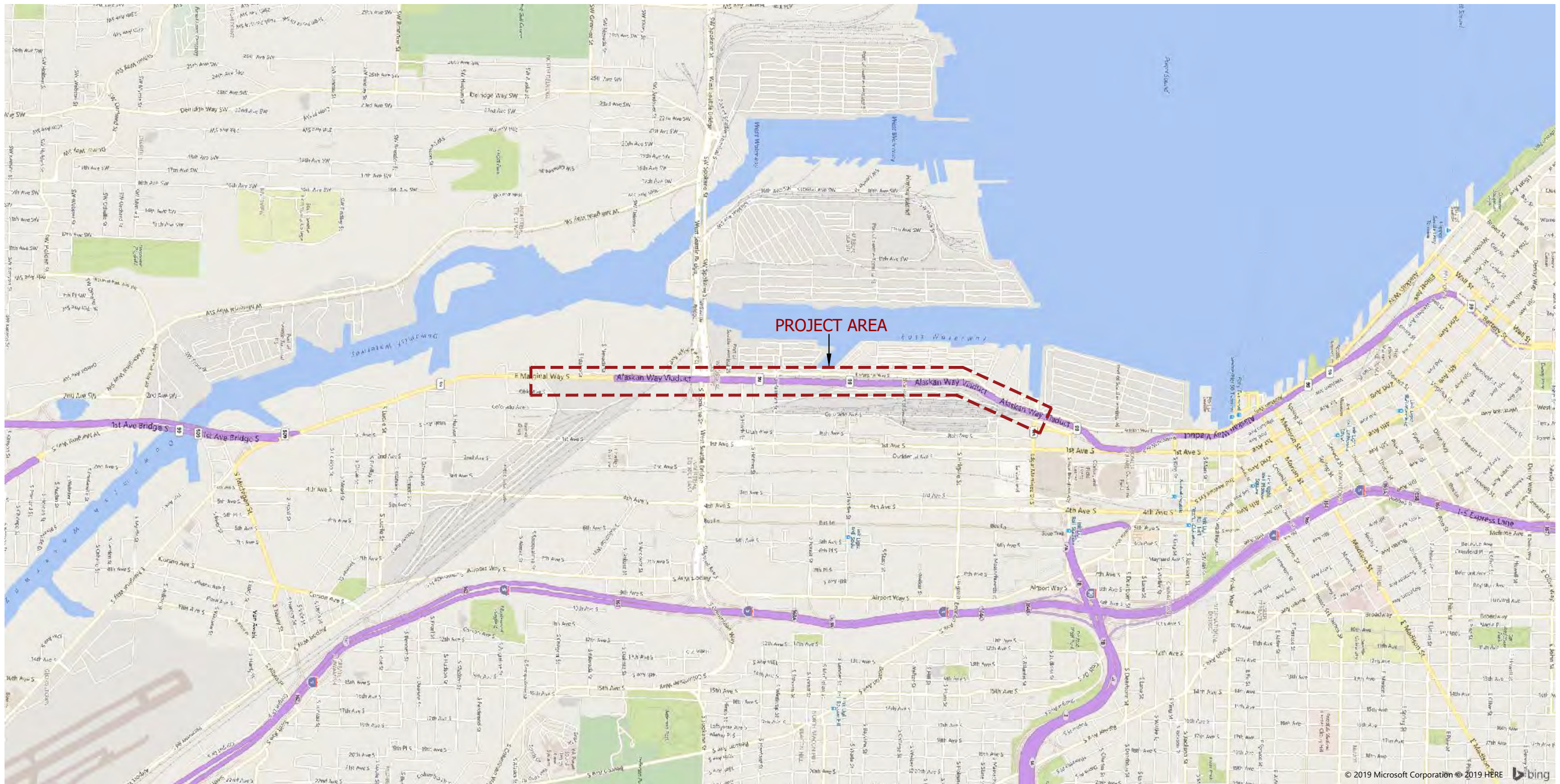
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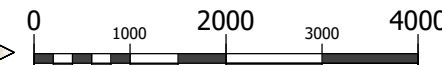
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## FIGURES





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SCALE: 1" = 2000'



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HAZARDOUS MATERIALS ANALYSIS REPORT  
EAST MARGINAL WAY CORRIDOR  
DESIGN IMPROVEMENT PROJECT  
SEATTLE, WASHINGTON

VICINITY MAP

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BFM	1
CHECK BY:	PROJECT NO.:
NK / AS	2019-087-21

BASE MAP PROVIDED BY: BING AND SURVEYOR

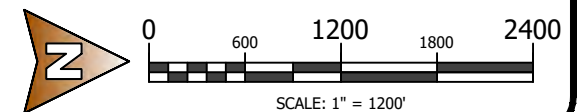
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**LEGEND**

 PROJECT AREA IMPACTS DUE TO PLACEMENT OF FILL



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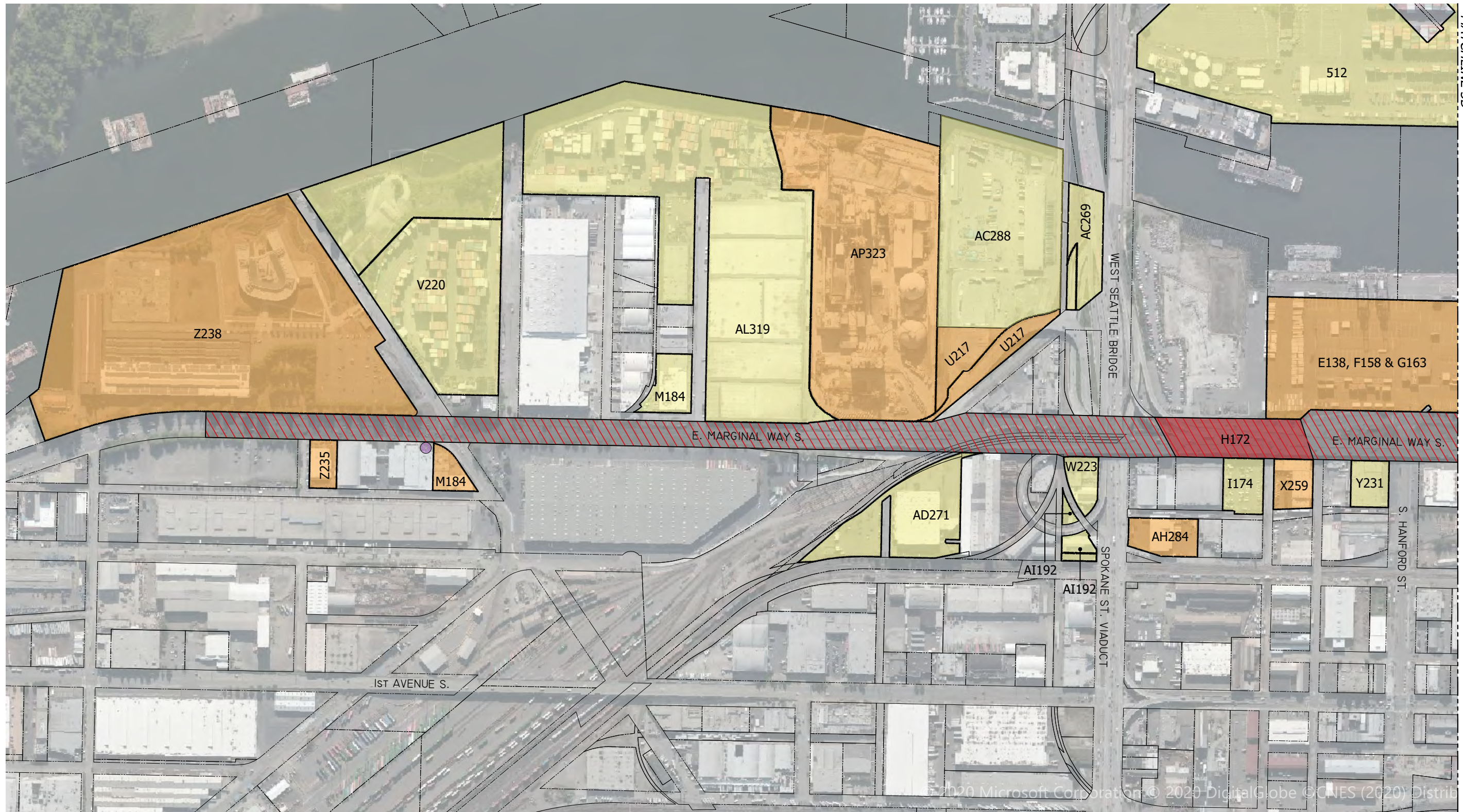
HAZARDOUS MATERIALS ANALYSIS REPORT  
EAST MARGINAL WAY CORRIDOR  
DESIGN IMPROVEMENT PROJECT  
SEATTLE, WASHINGTON

PROJECT AREA MAP







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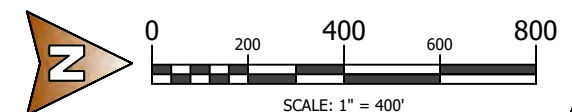
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PROJECT NO.:  
2019-087-21





**LEGEND**

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|  MODERATE IMPACT PROPERTY                    |  |   |
|  HIGH IMPACT PROPERTY                        |  |   |
|  123 AFFECTED PARCEL BOUNDARY & EDR MAP CODE |  |   |



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HAZARDOUS MATERIALS ANALYSIS REPORT  
EAST MARGINAL WAY CORRIDOR  
DESIGN IMPROVEMENT PROJECT  
SEATTLE, WASHINGTON

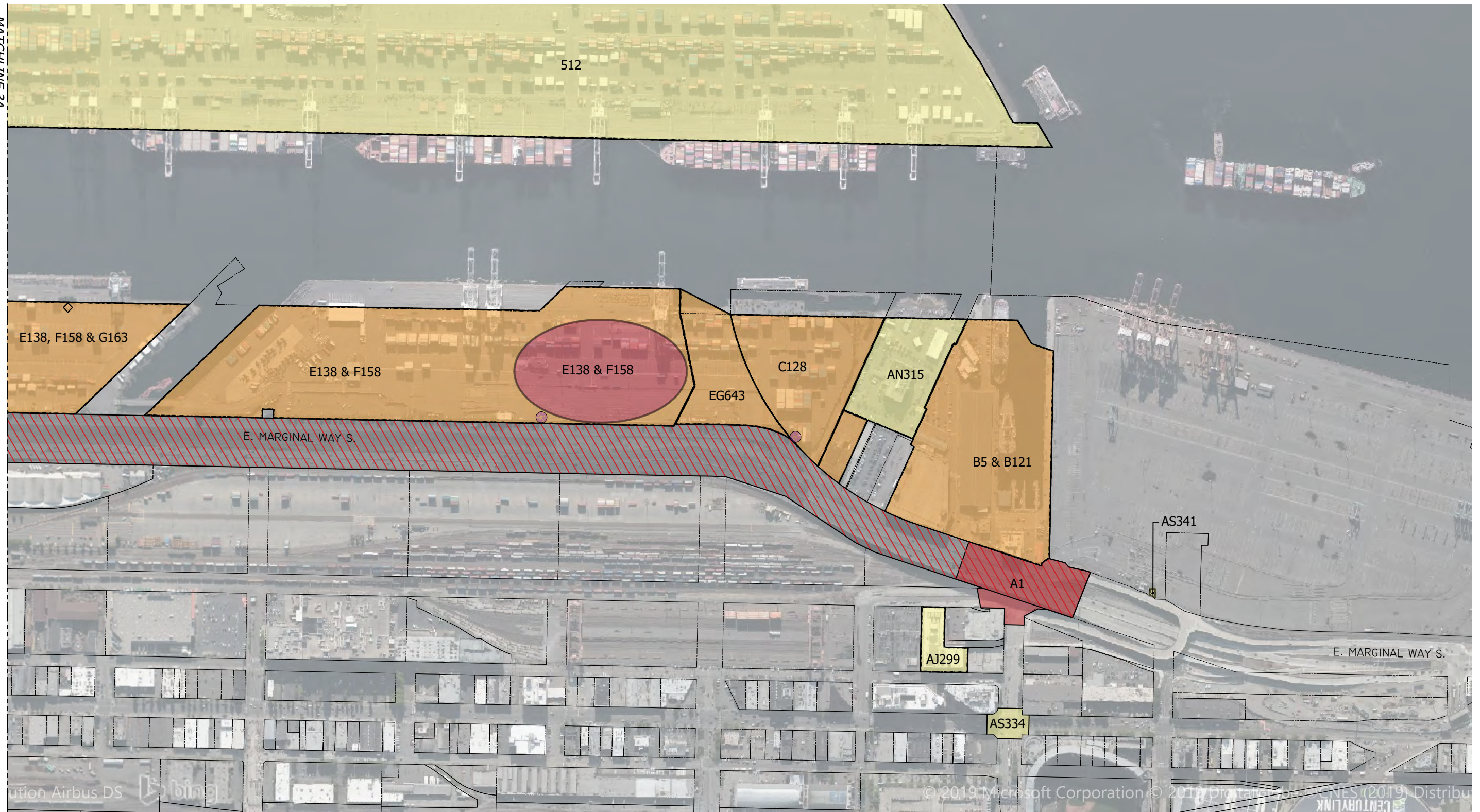
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





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PROJECT NO.:  
2019-087-21

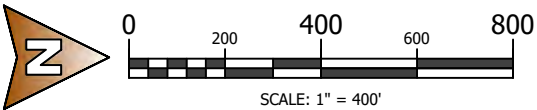


MATCHLINE 3A



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|  MODERATE IMPACT PROPERTY                    |   |   |
|  HIGH IMPACT PROPERTY                        |   |   |
|  123 AFFECTED PARCEL BOUNDARY & EDR MAP CODE |   |   |



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HAZARDOUS MATERIALS ANALYSIS REPORT  
EAST MARGINAL WAY CORRIDOR  
DESIGN IMPROVEMENT PROJECT  
SEATTLE, WASHINGTON

POTENTIALLY  
IMPACTED AREAS

DRAWN BY: BFM	FIGURE NO.: <b>3B</b>
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**APPENDIX A**  
**PROJECT AREA PHOTOGRAPHS**

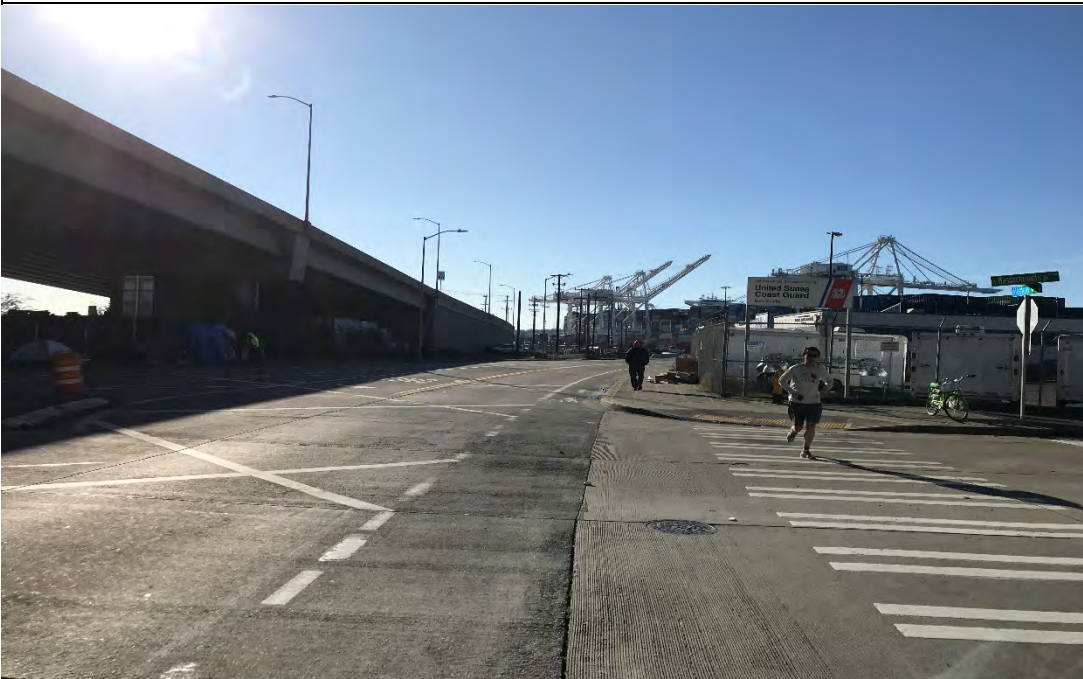


## Appendix A - Photo Log

EAST MARGINAL WAY PROJECT	Photograph 1
	<p>View facing north toward the northern terminus of the Project Area. Photograph taken from the vicinity of the intersection of South Atlantic Street and Alaskan Way South.</p>

EAST MARGINAL WAY PROJECT	Photograph 2
	<p>View facing south toward the north portion of the Alaskan Way South section of the Project Area. Photograph taken from the vicinity of the intersection of South Atlantic Street and Alaskan Way South.</p>

## Appendix A - Photo Log

EAST MARGINAL WAY PROJECT	Photograph 3
	<p>View facing south toward the south portion of the Alaskan Way South section of the Project Area. Photograph taken from the vicinity of the intersection of South Massachusetts Street and Alaskan Way South.</p>

EAST MARGINAL WAY PROJECT	Photograph 4
	<p>View facing north toward the north portion of the East Marginal Way South section of the Project Area. Photograph taken from the vicinity of where Alaskan Way South changes to East Marginal Way South.</p>



## Appendix A - Photo Log

EAST MARGINAL WAY PROJECT	Photograph 5
	<p>View facing south toward the north portion of the East Marginal Way South section of the Project Area. Photograph taken from the vicinity of where Alaskan Way South changes to East Marginal Way South.</p>

EAST MARGINAL WAY PROJECT	Photograph 6
	<p>View facing north toward the central portion of the East Marginal Way South section of the Project Area. Photograph taken from the vicinity of the south end of the Port of Seattle property addressed at 1901 East Marginal Way South.</p>



## Appendix A - Photo Log

EAST MARGINAL WAY PROJECT	Photograph 6
	<p>View facing south toward the central portion of the East Marginal Way South section of the Project Area. Photograph taken from the vicinity of the south end of the Port of Seattle property addressed at 1901 East Marginal Way South.</p>

EAST MARGINAL WAY PROJECT	Photograph 6
	<p>View facing north toward the central portion of the East Marginal Way South section of the Project Area. Photograph taken from the vicinity of the intersection of East Marginal Way South and South Hanford Street.</p>



## Appendix A - Photo Log

EAST MARGINAL WAY PROJECT	Photograph 7
	<p>View facing south toward the central portion of the East Marginal Way South section of the Project Area. Photograph taken from the vicinity of the intersection of East Marginal Way South and South Hanford Street.</p>

EAST MARGINAL WAY PROJECT	Photograph 8
	<p>View facing east toward the intersection of East Marginal Way South and South Hanford Street.</p>



## Appendix A - Photo Log

EAST MARGINAL WAY PROJECT	Photograph 9
 A wide-angle photograph showing a view facing east from a paved road. In the foreground, there is a wide asphalt surface. In the middle ground, a concrete overpass structure spans the road, supported by several large cylindrical pillars. To the left, a white semi-truck is partially visible. In the background, beyond the overpass, there are industrial buildings, utility poles, and a clear blue sky.	View facing east toward the intersection of East Marginal Way South and South Horton Street.

EAST MARGINAL WAY PROJECT	Photograph 10
 A photograph showing a view facing north from a paved road. The foreground features a road with white lane markings and a crosswalk. In the middle ground, a concrete overpass structure is visible, supported by pillars. To the right, a blue semi-truck is parked near a red stop sign. In the background, there are more overpass structures, streetlights, and a clear blue sky.	View facing north toward the intersection of the west leg of East Marginal Way South and South Spokane Street.

## Appendix A - Photo Log

EAST MARGINAL WAY PROJECT	Photograph 11
	View facing south toward the western leg of the East Marginal Way South portion of the Project Area that is in the vicinity of the intersection of East Marginal Way South and South Spokane Street.

EAST MARGINAL WAY PROJECT	Photograph 12
	View facing north toward the vicinity of the intersection of the east leg of East Marginal Way South and South Spokane Street.



## Appendix A - Photo Log

EAST MARGINAL WAY PROJECT	Photograph 13
	View facing north toward the south portion of the East Marginal Way South section of the Project Area. Photograph taken from the vicinity of the intersection of East Marginal Way South and South Nevada Street.

EAST MARGINAL WAY PROJECT	Photograph 14
	View facing south toward the south portion of the East Marginal Way South section of the Project Area. Photograph taken from the vicinity of the intersection of East Marginal Way South and South Nevada Street.




## Appendix A - Photo Log

EAST MARGINAL WAY PROJECT	Photograph 15
	View facing north toward the south portion of the East Marginal Way South section of the Project Area. Photograph taken from the vicinity of the intersection of East Marginal Way South and Diagonal Avenue South.

EAST MARGINAL WAY PROJECT	Photograph 16
	View facing south toward South Alaska Street. Photograph taken from the vicinity of the intersection of East Marginal Way South and Diagonal Avenue South.



## Appendix A - Photo Log

EAST MARGINAL WAY PROJECT	Photograph-17
	View facing north towards Diagonal Avenue South. Photograph taken from the intersection of East Marginal Way South and South Alaska Street.

EAST MARGINAL WAY PROJECT	Photograph-18
	View facing south towards southern terminus of project area. Photograph taken from the intersection of East Marginal Way and South Alaska Street.

**APPENDIX B**  
**HISTORICAL TOPOGRAPHIC MAPS**



East Marginal Way

East Marginal Way

Seattle, WA 98134

Inquiry Number: 5171151.9

January 30, 2018

# EDR Historical Topo Map Report

## with QuadMatch™



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Historical Topo Map Report

01/30/18

**Site Name:**

East Marginal Way  
East Marginal Way  
Seattle, WA 98134  
EDR Inquiry # 5171151.9

**Client Name:**

HWA GeoSciences, Inc.  
21312 30th Drive SE  
Bothell, WA 98021  
Contact: Nicole Kapise



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by HWA GeoSciences, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

**Search Results:****Coordinates:**

<b>P.O.#</b>	2017-074-T302	<b>Latitude:</b>	47.572036 47° 34' 19" North
<b>Project:</b>	East Marginal Way	<b>Longitude:</b>	-122.339473 -122° 20' 22" West
		<b>UTM Zone:</b>	Zone 10 North
		<b>UTM X Meters:</b>	549678.37
		<b>UTM Y Meters:</b>	5268946.96
		<b>Elevation:</b>	11.00' above sea level

**Maps Provided:**

2014	1894
1983	
1973	
1968	
1909	
1908	
1897	
1895	

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## ***Topo Sheet Key***

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **2014 Source Sheets**



Seattle South  
2014  
7.5-minute, 24000

### **1983 Source Sheets**



Seattle South  
1983  
7.5-minute, 25000  
Aerial Photo Revised 1977

### **1973 Source Sheets**



Seattle South  
1973  
7.5-minute, 24000  
Aerial Photo Revised 1973

### **1968 Source Sheets**



Seattle South  
1968  
7.5-minute, 24000  
Aerial Photo Revised 1968

## ***Topo Sheet Key***

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **1909 Source Sheets**



Seattle Special  
1909  
15-minute, 62500



Seattle  
1909  
15-minute, 62500

### **1908 Source Sheets**

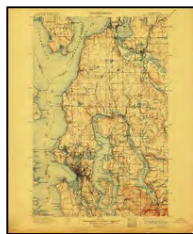


Seattle  
1908  
15-minute, 62500

### **1897 Source Sheets**



Seattle  
1897  
30-minute, 125000



Snohomish  
1897  
30-minute, 125000

### **1895 Source Sheets**



Snohomish  
1895  
30-minute, 125000



### ***Topo Sheet Key***

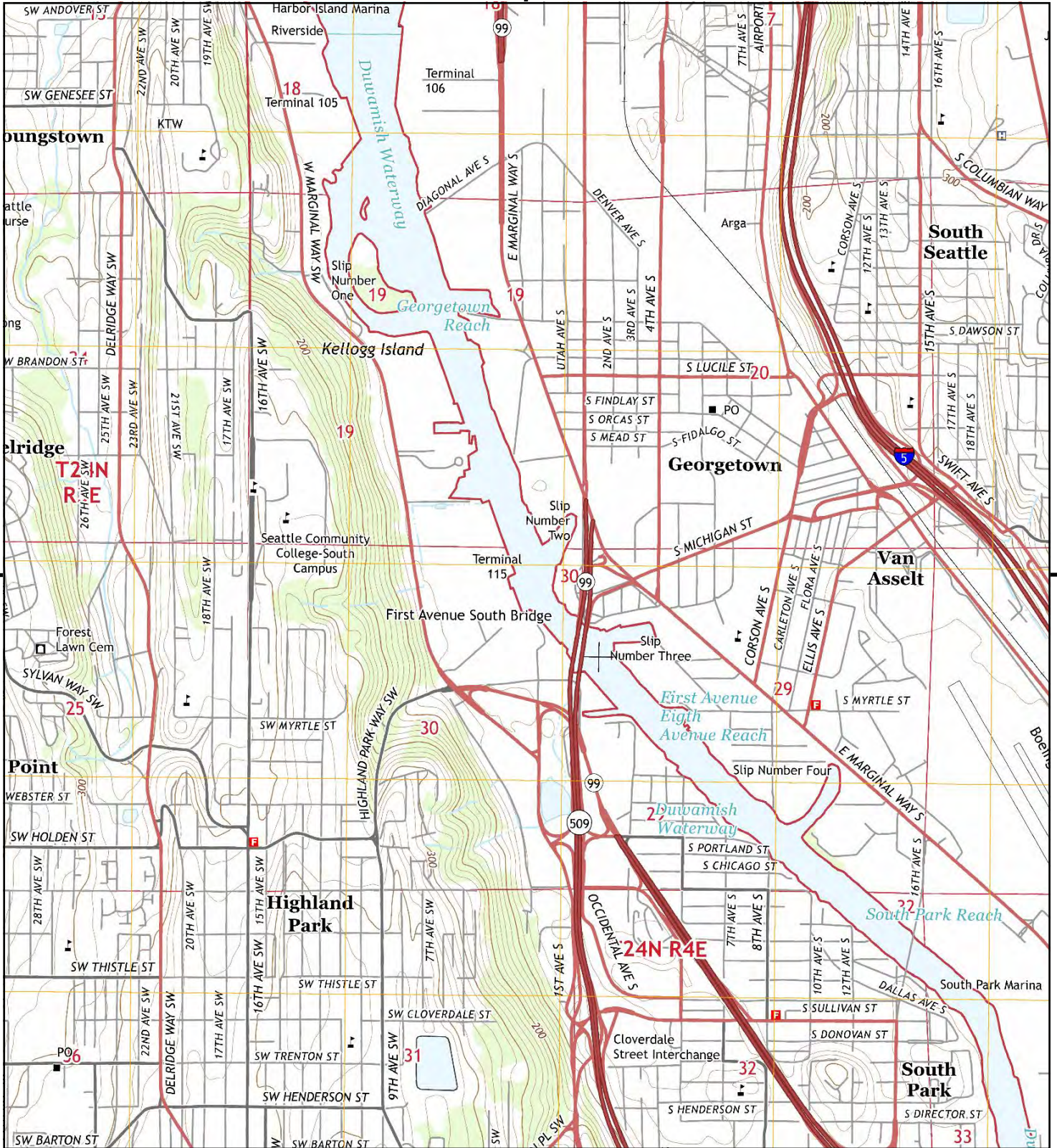
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

#### **1894 Source Sheets**



Seattle  
1894  
15-minute, 62500





This report includes information from the following map sheet(s).

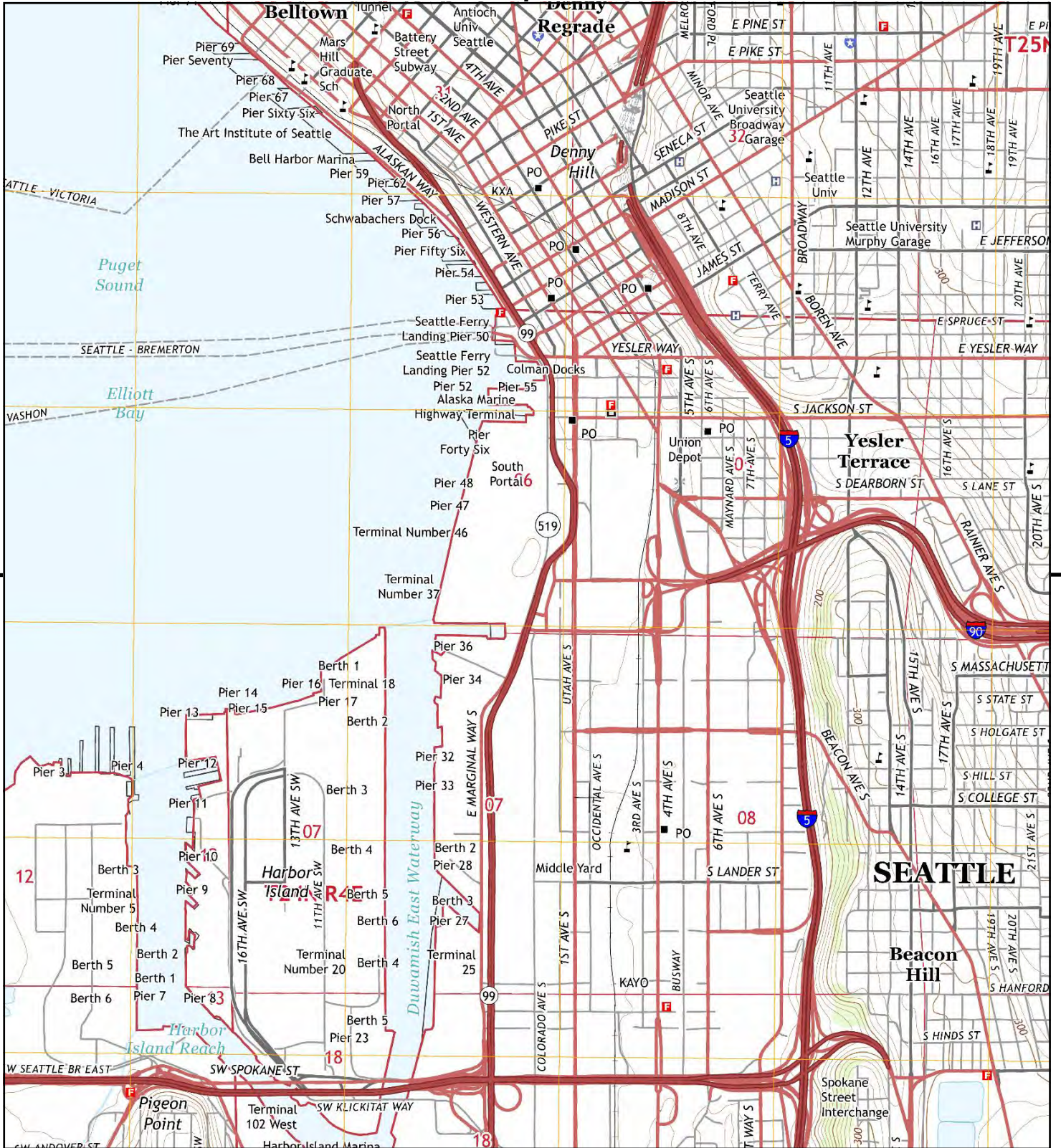


TP, Seattle South, 2014, 7.5-minute

SITE NAME: East Marginal Way  
 ADDRESS: East Marginal Way  
 Seattle, WA 98134  
 CLIENT: HWA GeoSciences, Inc.







This report includes information from the following map sheet(s).

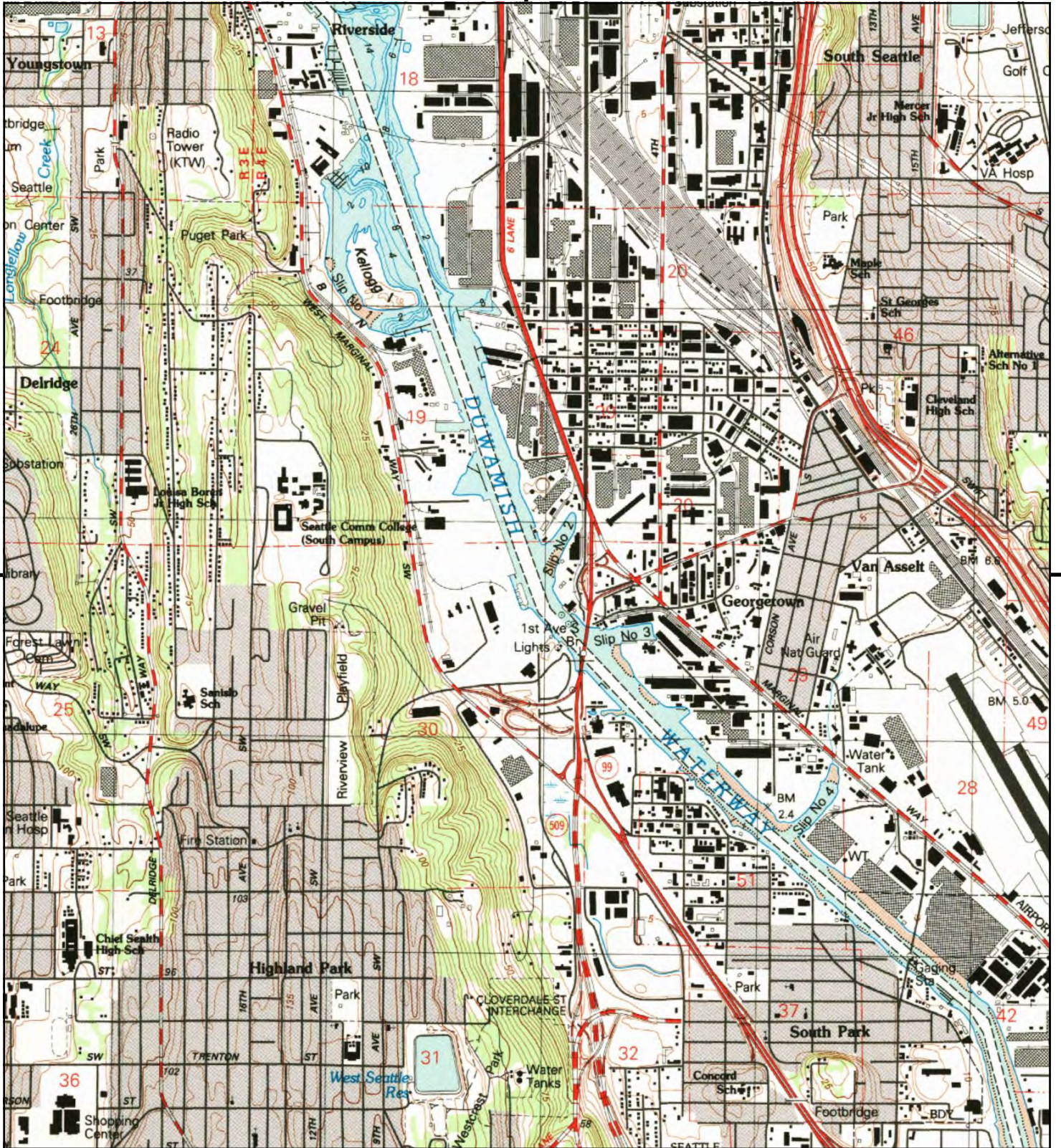


TP, Seattle South, 2014, 7.5-minute

SITE NAME: East Marginal Way  
ADDRESS: East Marginal Way  
Seattle, WA 98134  
CLIENT: HWA GeoSciences, Inc.







This report includes information from the following map sheet(s).

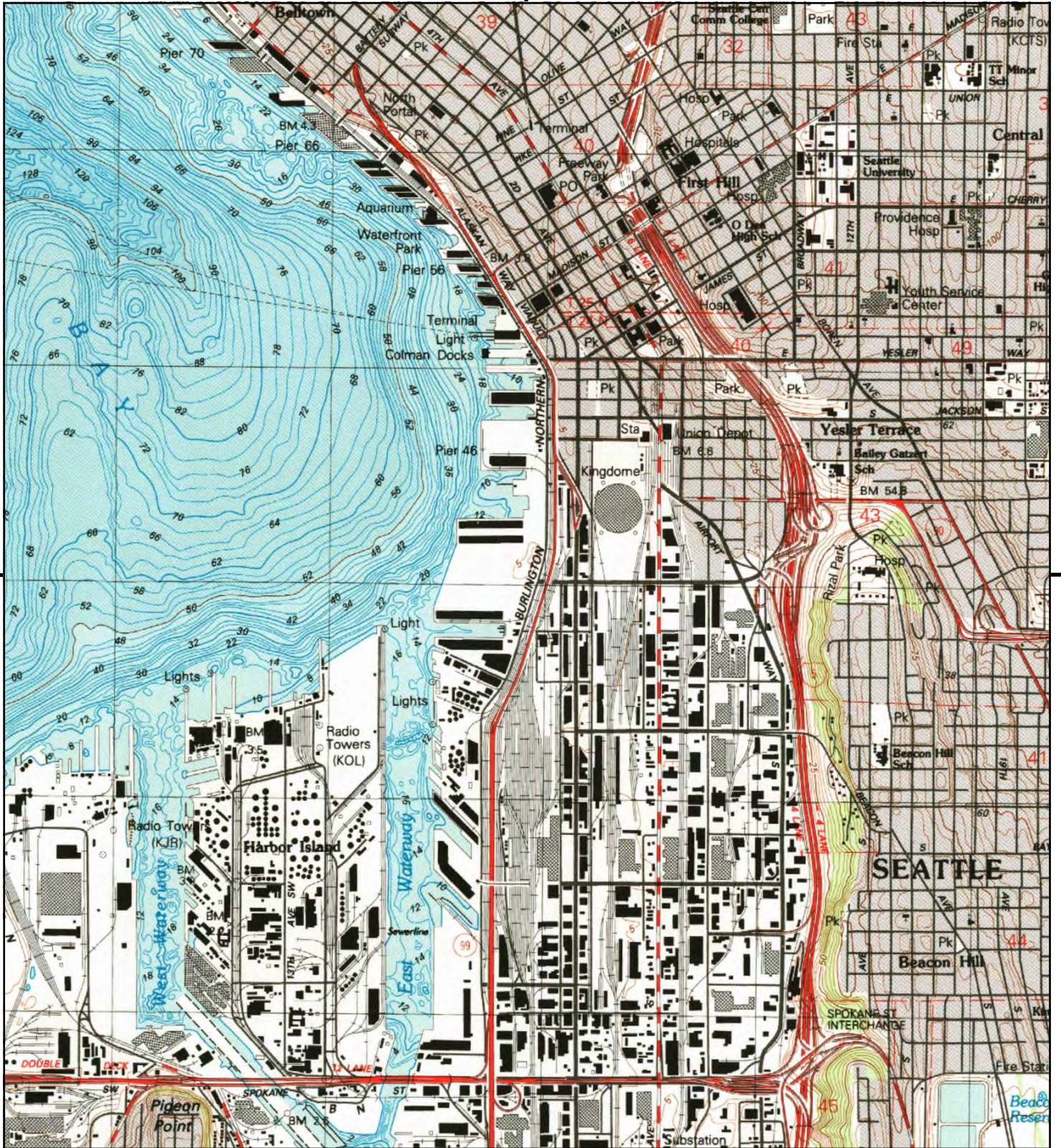


TP, Seattle South, 1983, 7.5-minute

SITE NAME: East Marginal Way  
ADDRESS: East Marginal Way  
Seattle, WA 98134  
CLIENT: HWA GeoSciences, Inc.







This report includes information from the following map sheet(s).

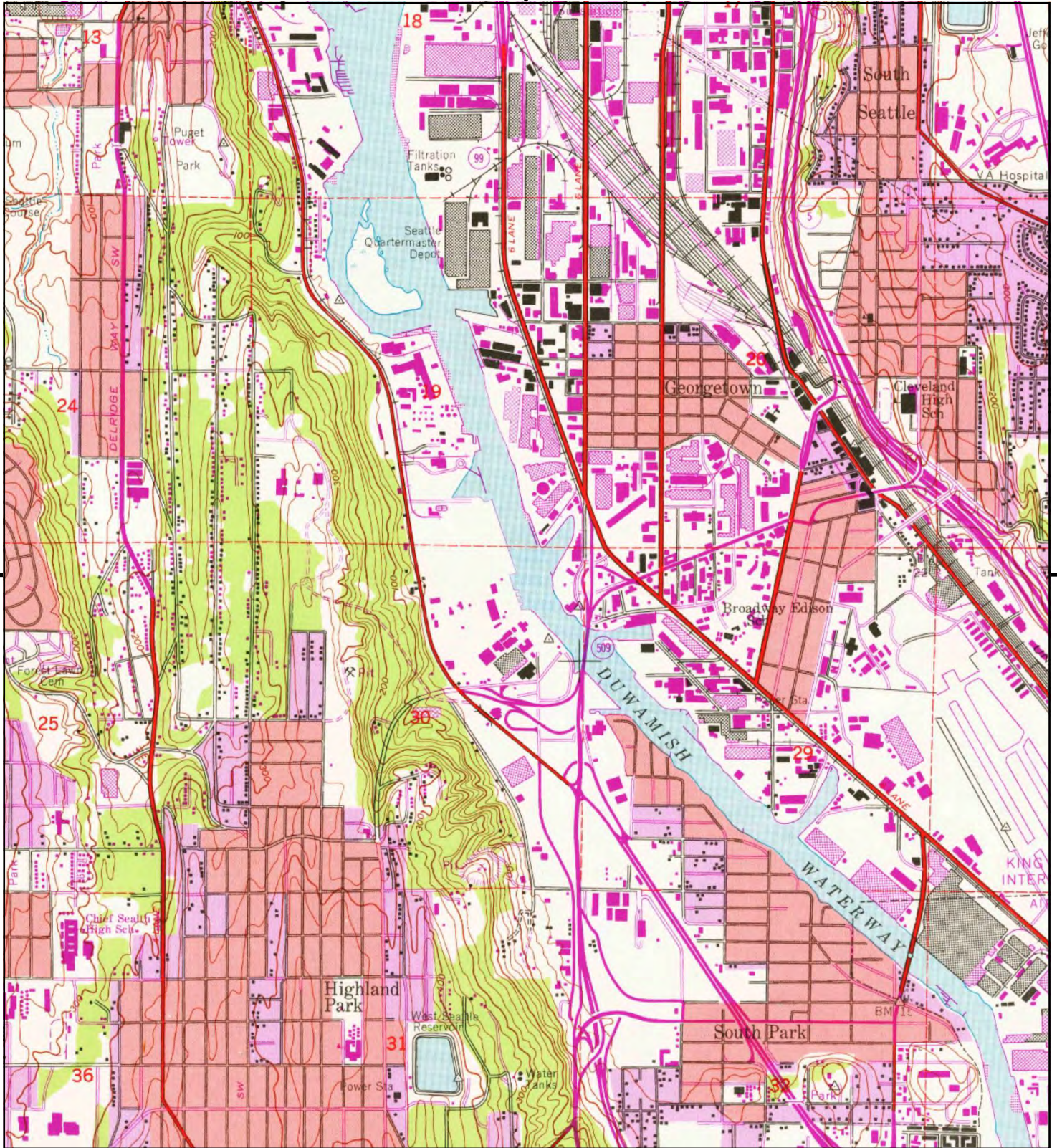


TP, Seattle South, 1983, 7.5-minute

SITE NAME: East Marginal Way  
ADDRESS: East Marginal Way  
Seattle, WA 98134  
CLIENT: HWA GeoSciences, Inc.







This report includes information from the following map sheet(s).

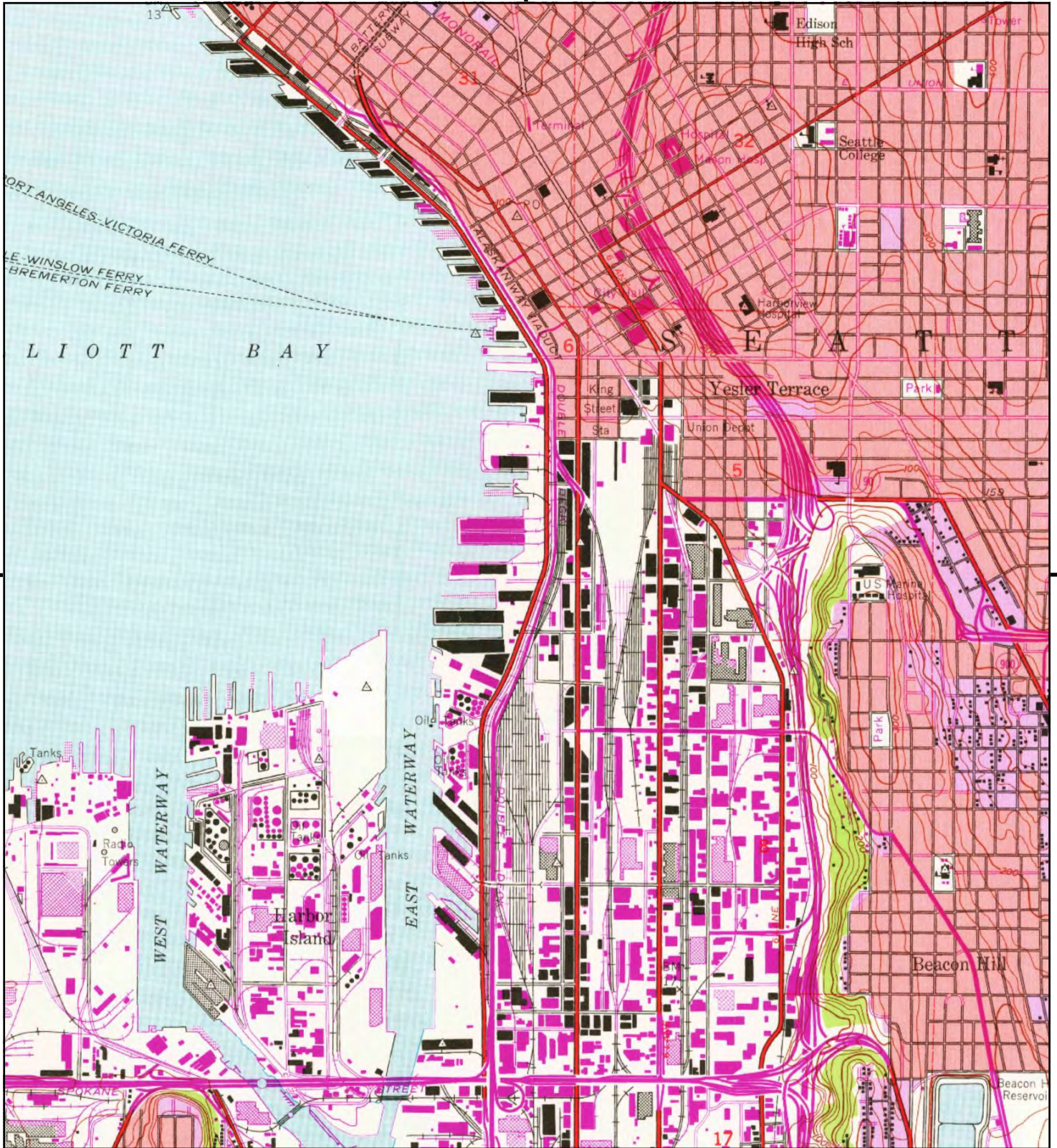


TP, Seattle South, 1973, 7.5-minute

SITE NAME: East Marginal Way  
ADDRESS: East Marginal Way  
Seattle, WA 98134  
CLIENT: HWA GeoSciences, Inc.







This report includes information from the following map sheet(s).

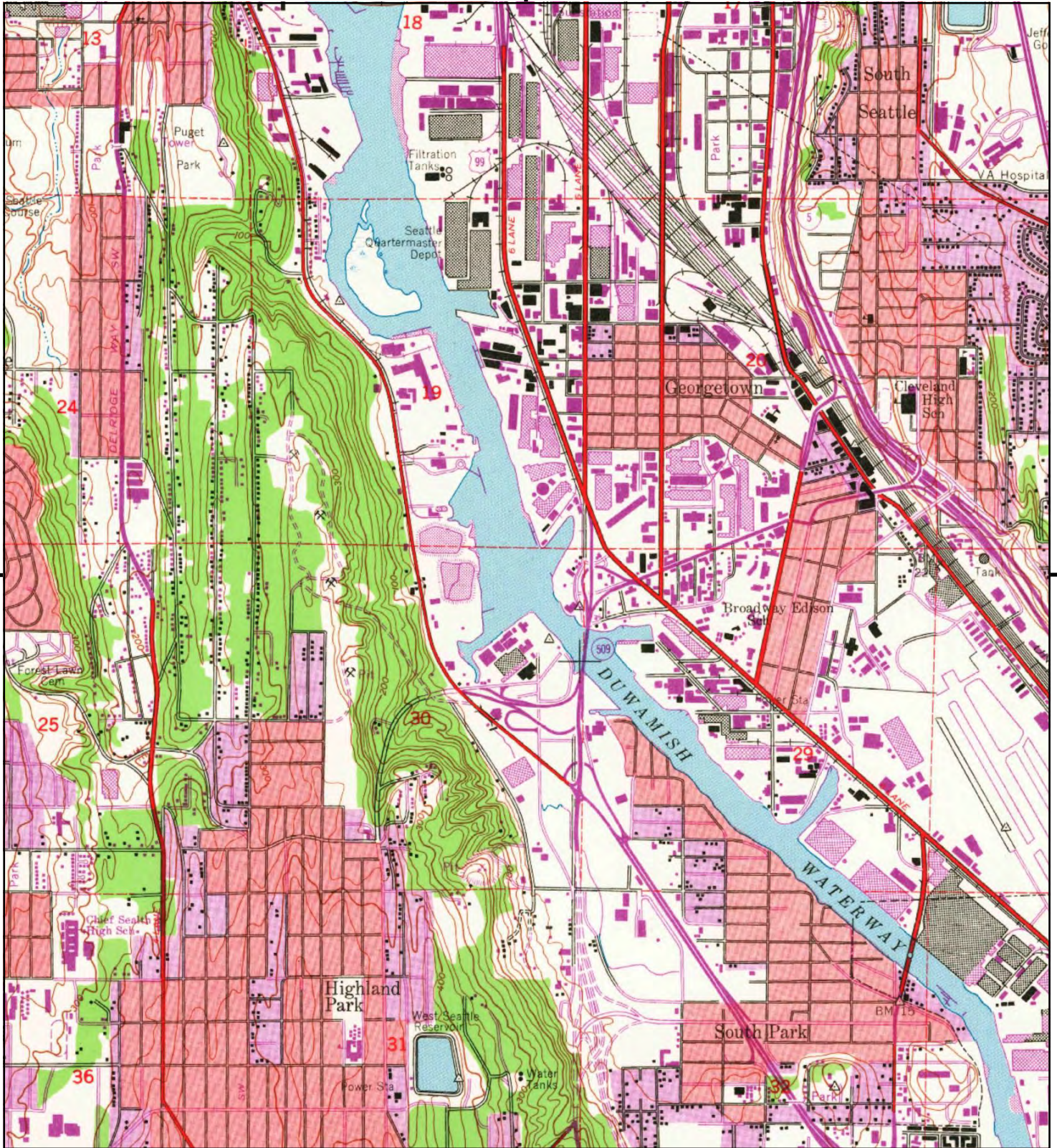


TP, Seattle South, 1973, 7.5-minute

SITE NAME: East Marginal Way  
ADDRESS: East Marginal Way  
Seattle, WA 98134  
CLIENT: HWA GeoSciences, Inc.







This report includes information from the following map sheet(s).

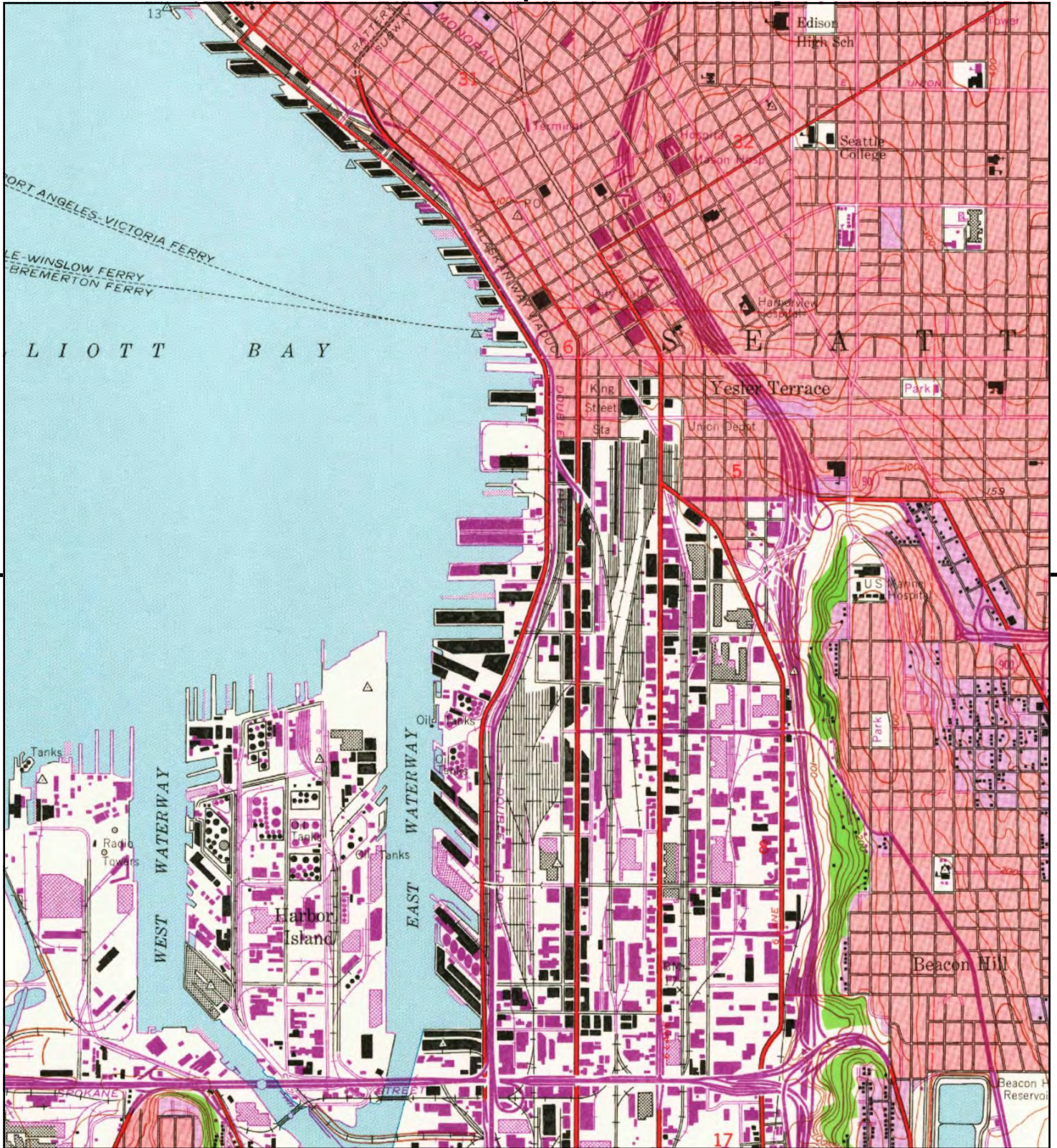


TP, Seattle South, 1968, 7.5-minute

SITE NAME: East Marginal Way  
ADDRESS: East Marginal Way  
Seattle, WA 98134  
CLIENT: HWA GeoSciences, Inc.







This report includes information from the following map sheet(s).

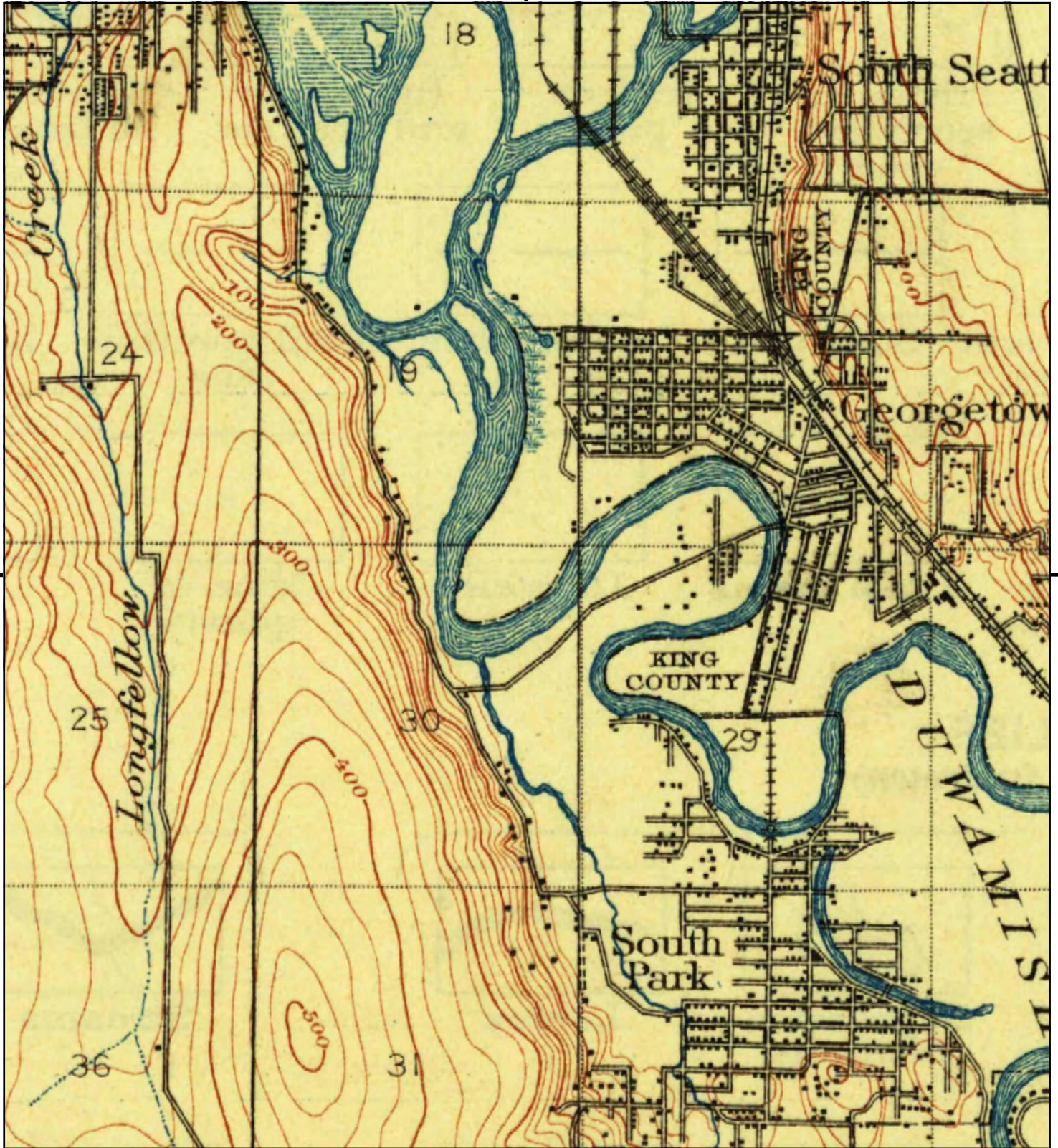


TP, Seattle South, 1968, 7.5-minute

SITE NAME: East Marginal Way  
ADDRESS: East Marginal Way  
Seattle, WA 98134  
CLIENT: HWA GeoSciences, Inc.







This report includes information from the following map sheet(s).



TP, Seattle Special, 1909, 15-minute  
TP, Seattle, 1909, 15-minute

SITE NAME: East Marginal Way  
ADDRESS: East Marginal Way  
Seattle, WA 98134  
CLIENT: HWA GeoSciences, Inc.







This report includes information from the following map sheet(s).

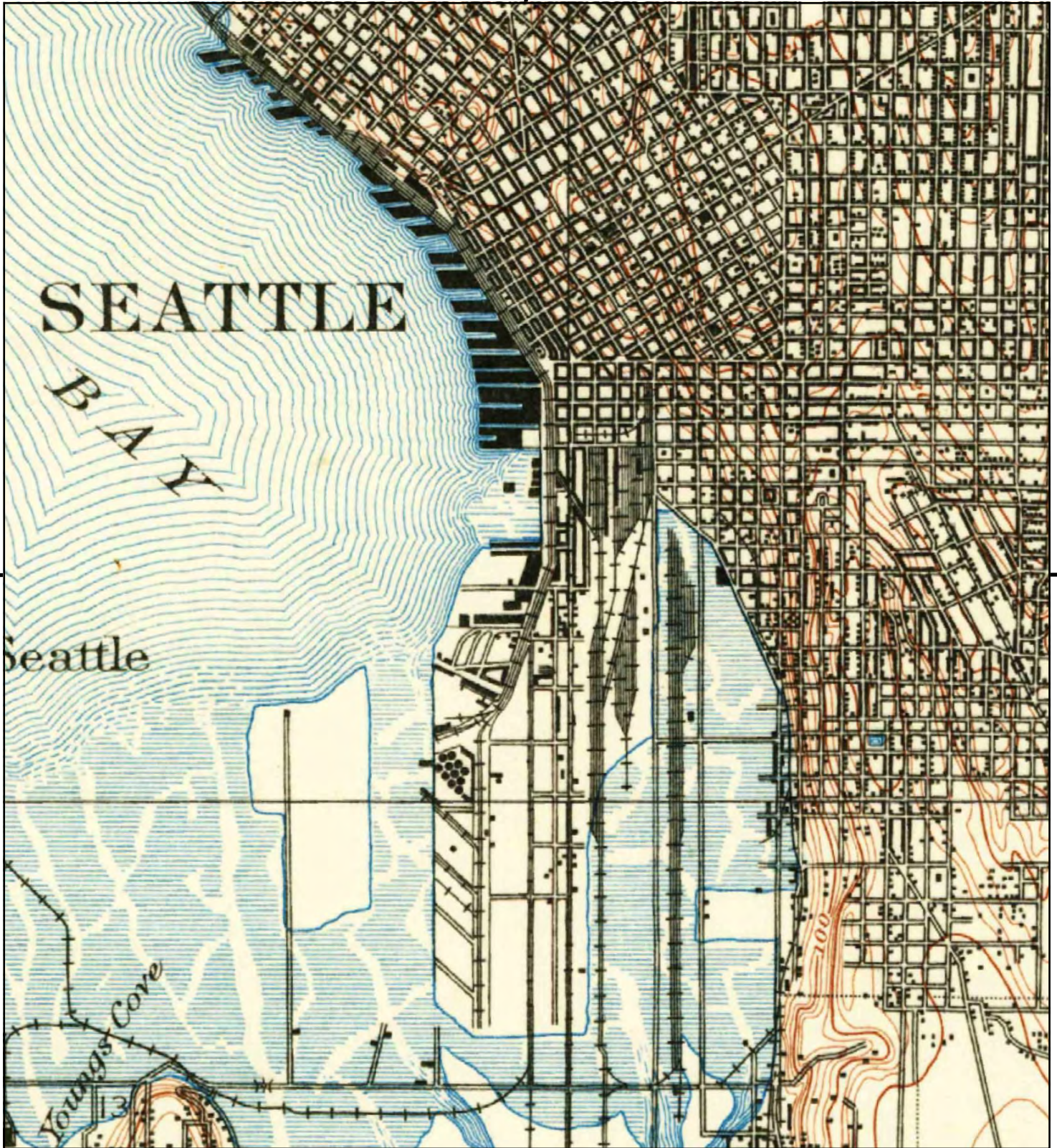


TP, Seattle Special, 1909, 15-minute  
TP, Seattle, 1909, 15-minute

SITE NAME: East Marginal Way  
ADDRESS: East Marginal Way  
Seattle, WA 98134  
CLIENT: HWA GeoSciences, Inc.







This report includes information from the following map sheet(s).

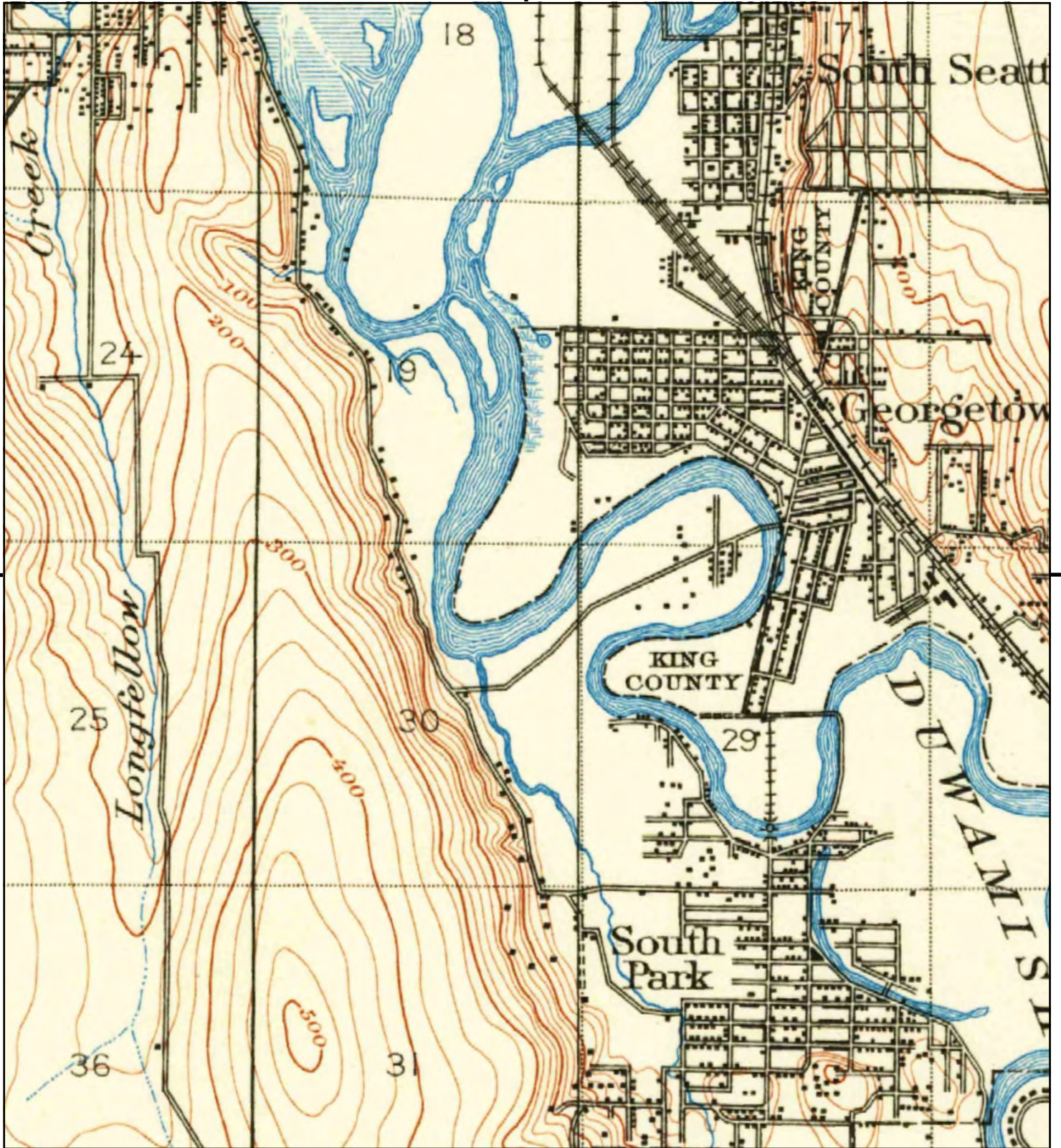


TP, Seattle, 1908, 15-minute

SITE NAME: East Marginal Way  
 ADDRESS: East Marginal Way  
 Seattle, WA 98134  
 CLIENT: HWA GeoSciences, Inc.







This report includes information from the following map sheet(s).

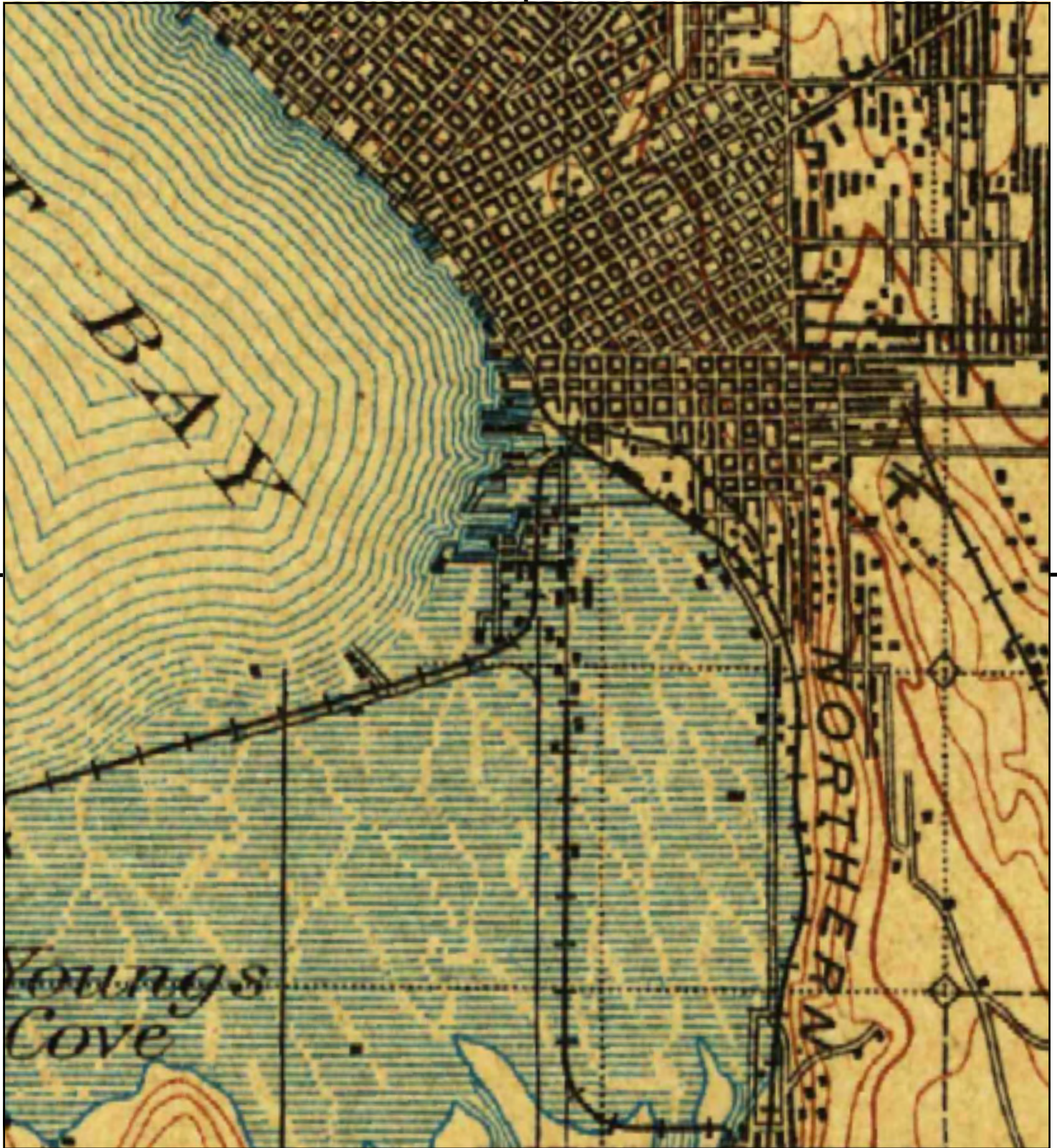


TP, Seattle, 1908, 15-minute

SITE NAME: East Marginal Way  
 ADDRESS: East Marginal Way  
 Seattle, WA 98134  
 CLIENT: HWA GeoSciences, Inc.







This report includes information from the following map sheet(s).

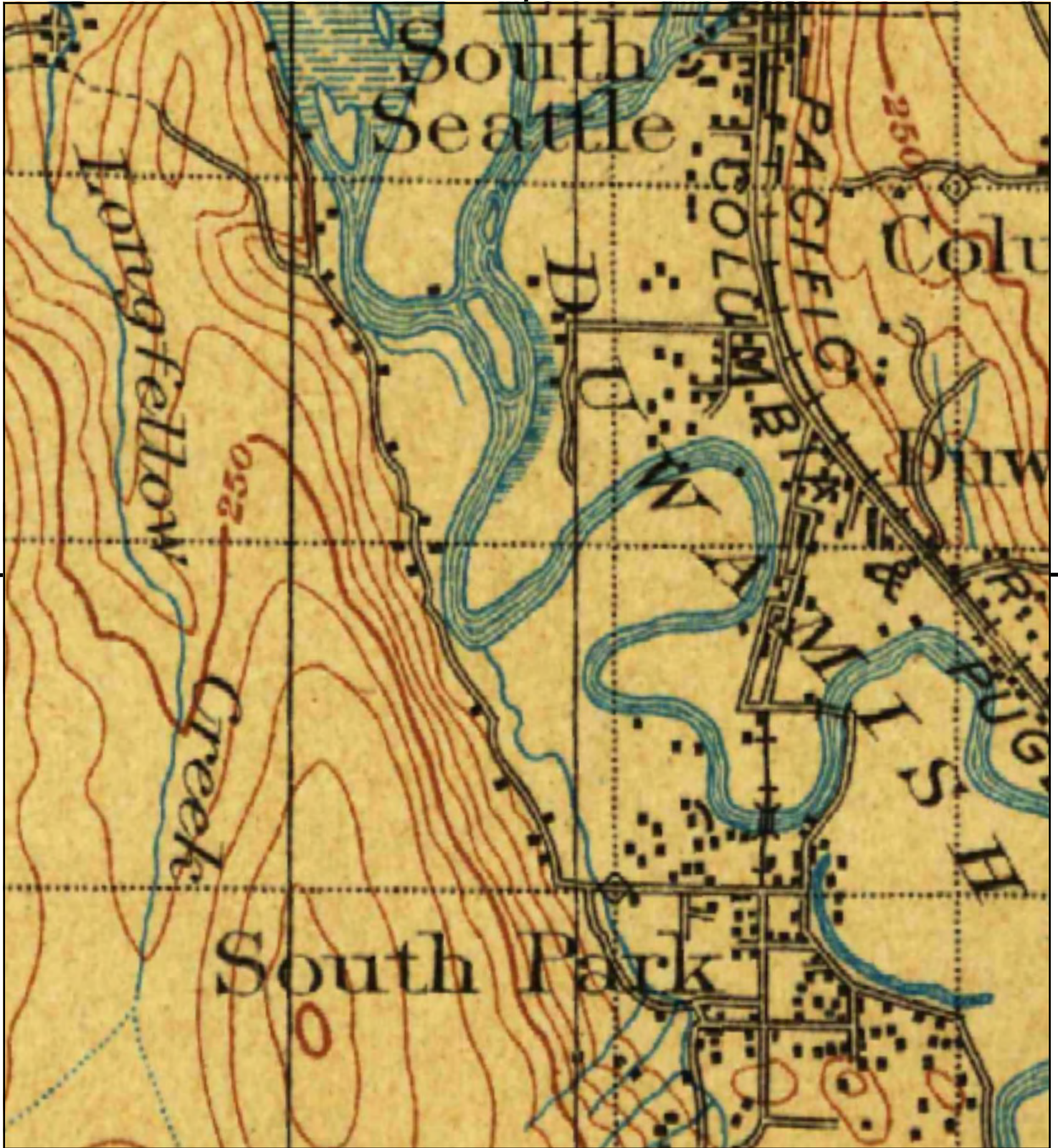


TP, Seattle, 1897, 30-minute  
TP, Snohomish, 1897, 30-minute

SITE NAME: East Marginal Way  
ADDRESS: East Marginal Way  
Seattle, WA 98134  
CLIENT: HWA GeoSciences, Inc.







This report includes information from the following map sheet(s).

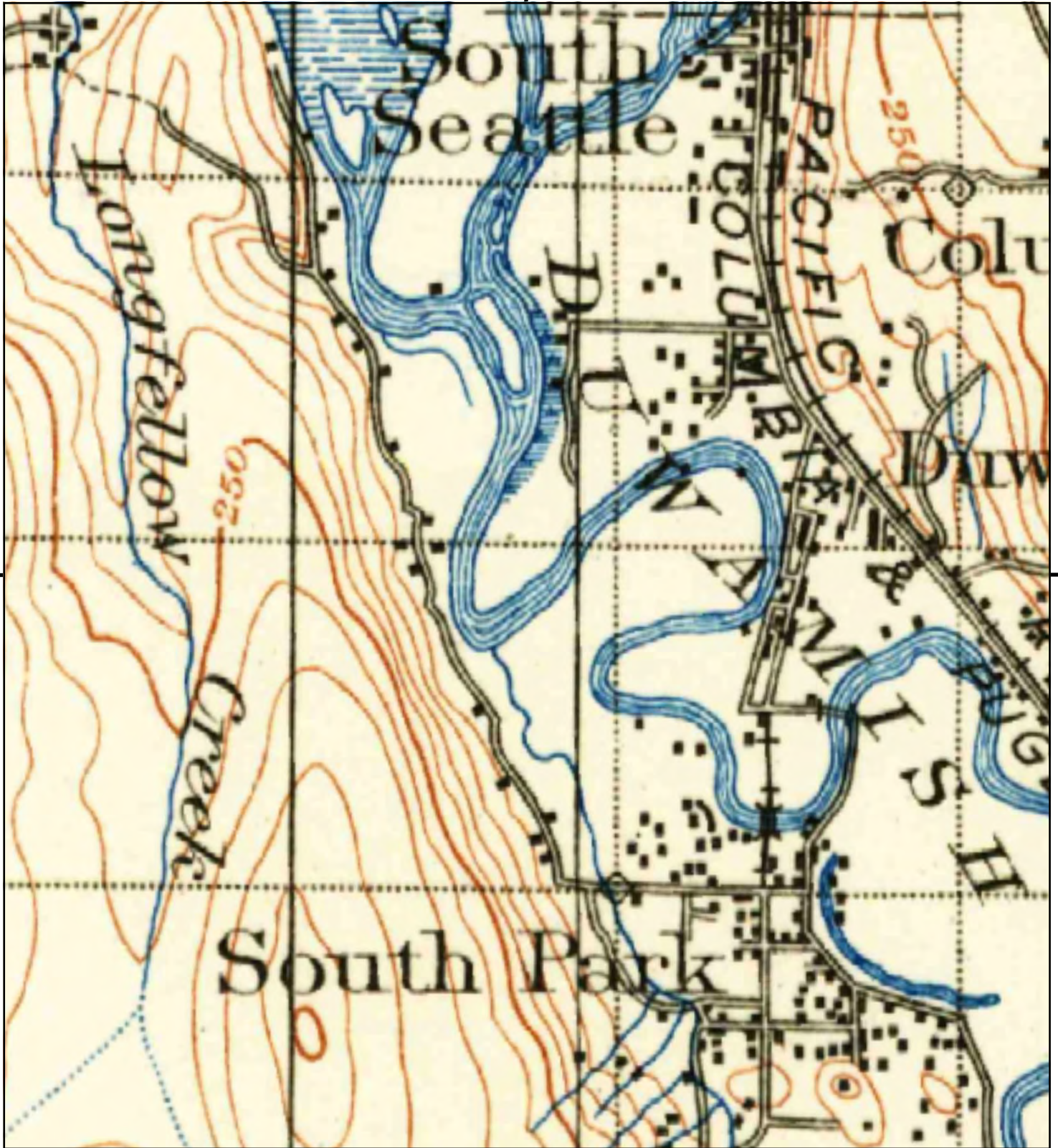


TP, Seattle, 1897, 30-minute  
TP, Snohomish, 1897, 30-minute

SITE NAME: East Marginal Way  
ADDRESS: East Marginal Way  
Seattle, WA 98134  
CLIENT: HWA GeoSciences, Inc.







This report includes information from the following map sheet(s).

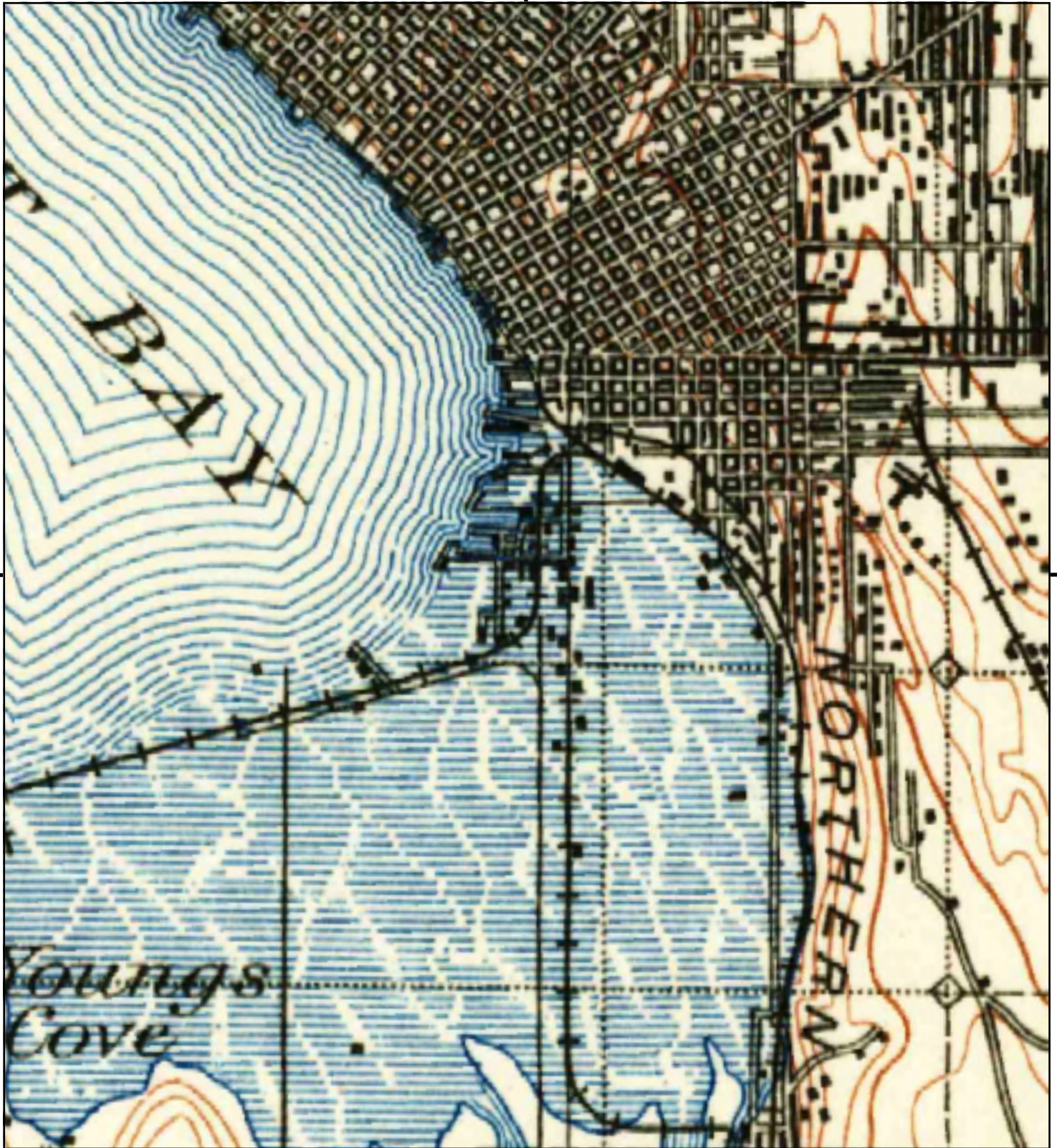


TP, Snohomish, 1895, 30-minute

SITE NAME: East Marginal Way  
 ADDRESS: East Marginal Way  
 Seattle, WA 98134  
 CLIENT: HWA GeoSciences, Inc.







This report includes information from the following map sheet(s).

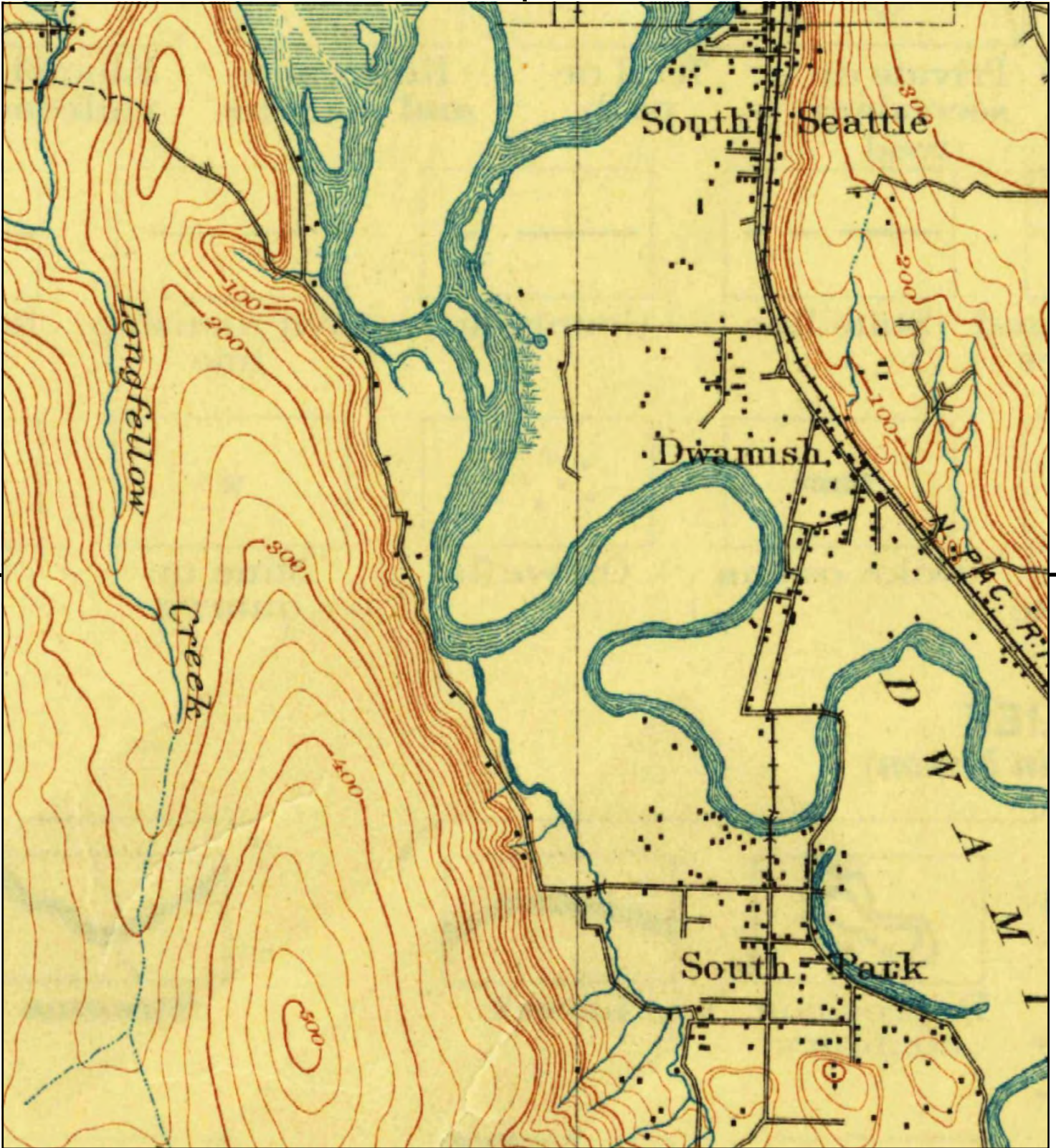


TP, Snohomish, 1895, 30-minute

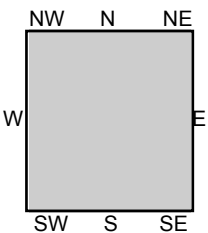
SITE NAME: East Marginal Way  
 ADDRESS: East Marginal Way  
 Seattle, WA 98134  
 CLIENT: HWA GeoSciences, Inc.







This report includes information from the following map sheet(s).

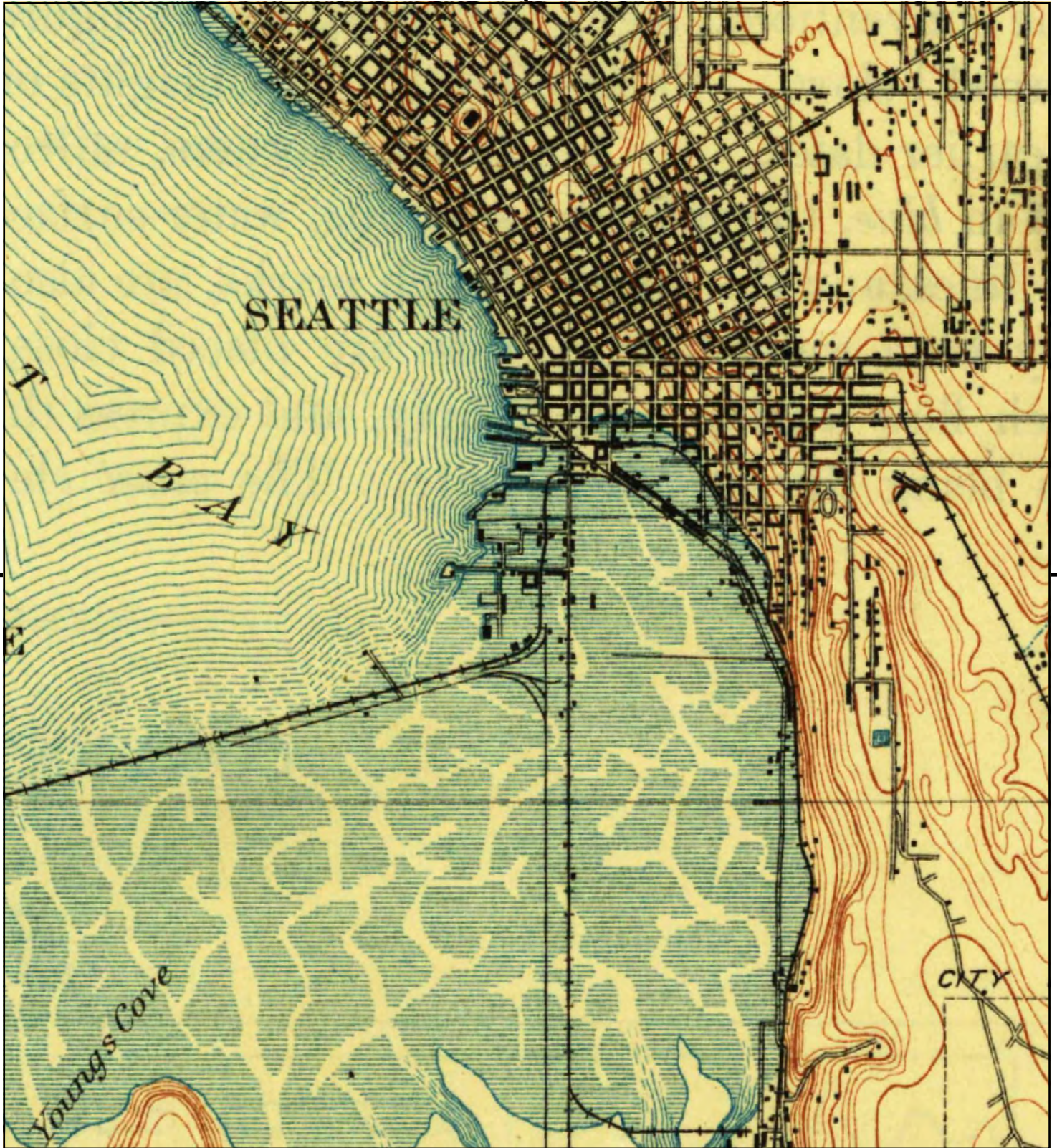


TP, Seattle, 1894, 15-minute

SITE NAME: East Marginal Way  
 ADDRESS: East Marginal Way  
 Seattle, WA 98134  
 CLIENT: HWA GeoSciences, Inc.







This report includes information from the following map sheet(s).



TP, Seattle, 1894, 15-minute

SITE NAME: East Marginal Way  
 ADDRESS: East Marginal Way  
 Seattle, WA 98134  
 CLIENT: HWA GeoSciences, Inc.



**APPENDIX C**  
**HISTORICAL AERIAL PHOTOGRAPHS**





## **East Marginal Way**

East Marginal Way

Seattle, WA 98134

Inquiry Number: 5171151.7

February 06, 2018

# **The EDR Aerial Photo Decade Package**



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

**Date EDR Searched Historical Sources:**

Aerial Photography February 06, 2018

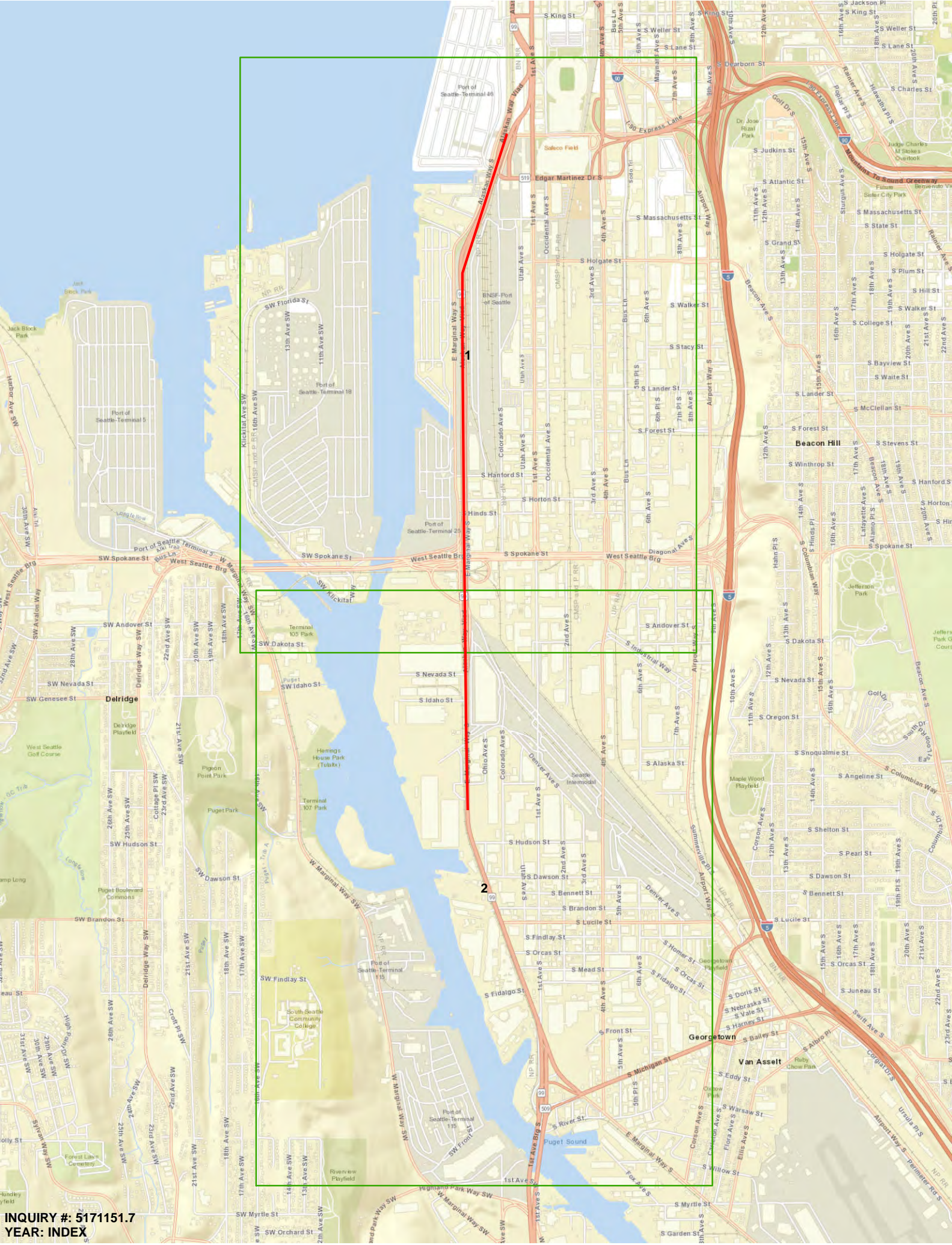
**Target Property:**

East Marginal Way

Seattle, WA 98134

<u><i>Year</i></u>	<u><i>Scale</i></u>	<u><i>Details</i></u>	<u><i>Source</i></u>
1936	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1936	KCDOT
1943	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1943	DIA
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	USC&GS
1968	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1968	USGS
1977	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1977	USGS
1980	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1980	USDA
1990	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1990	DOQQ_USGS
2006	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2006	NAIP
2011	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2011	NAIP
2015	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2015	NAIP





INQUIRY #: 5171151.7  
YEAR: INDEX





QUIRY #: 5171151.7  
R: 1936  
LE: 1"=1000'





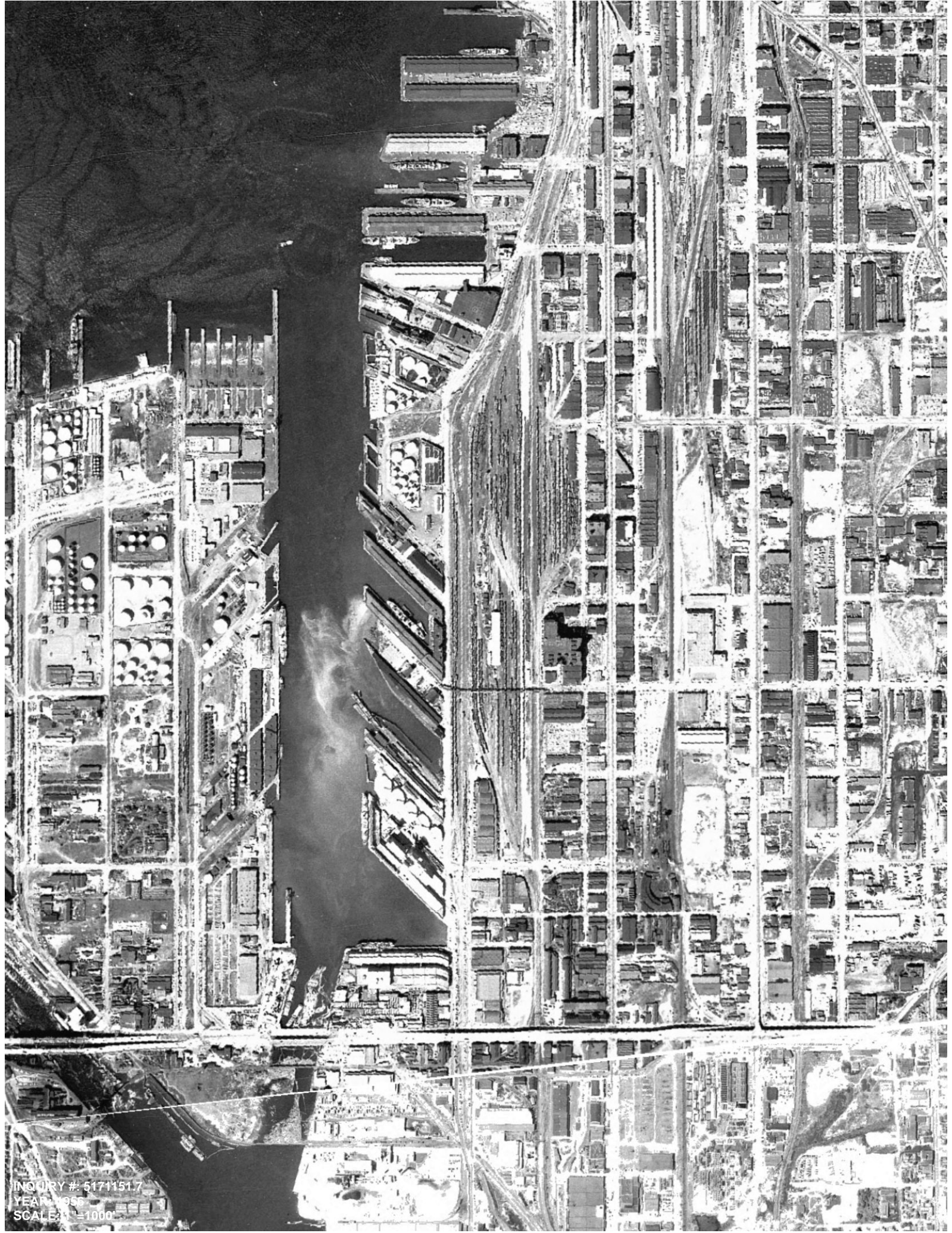


INQUIRY #: 5171151.7  
YEAR: 1943  
SCALE: 1"=1000'



INQUIRY #: 5171151.7  
YEAR: 1943  
SCALE: 1"=1000'





INQUIRY #: 5171151.7  
YEAR: 1956  
SCALE: 1"=1000'





INQUIRY #: 51711517  
YEAR: 1956  
SCALE: 1"=1000'



t-10



INQUIRY #: 5171151.7  
YEAR: 1968  
SCALE: 1"=1000'





INQUIRY #: 5171151.7  
YEAR: 1968  
SCALE: 1"=1000'





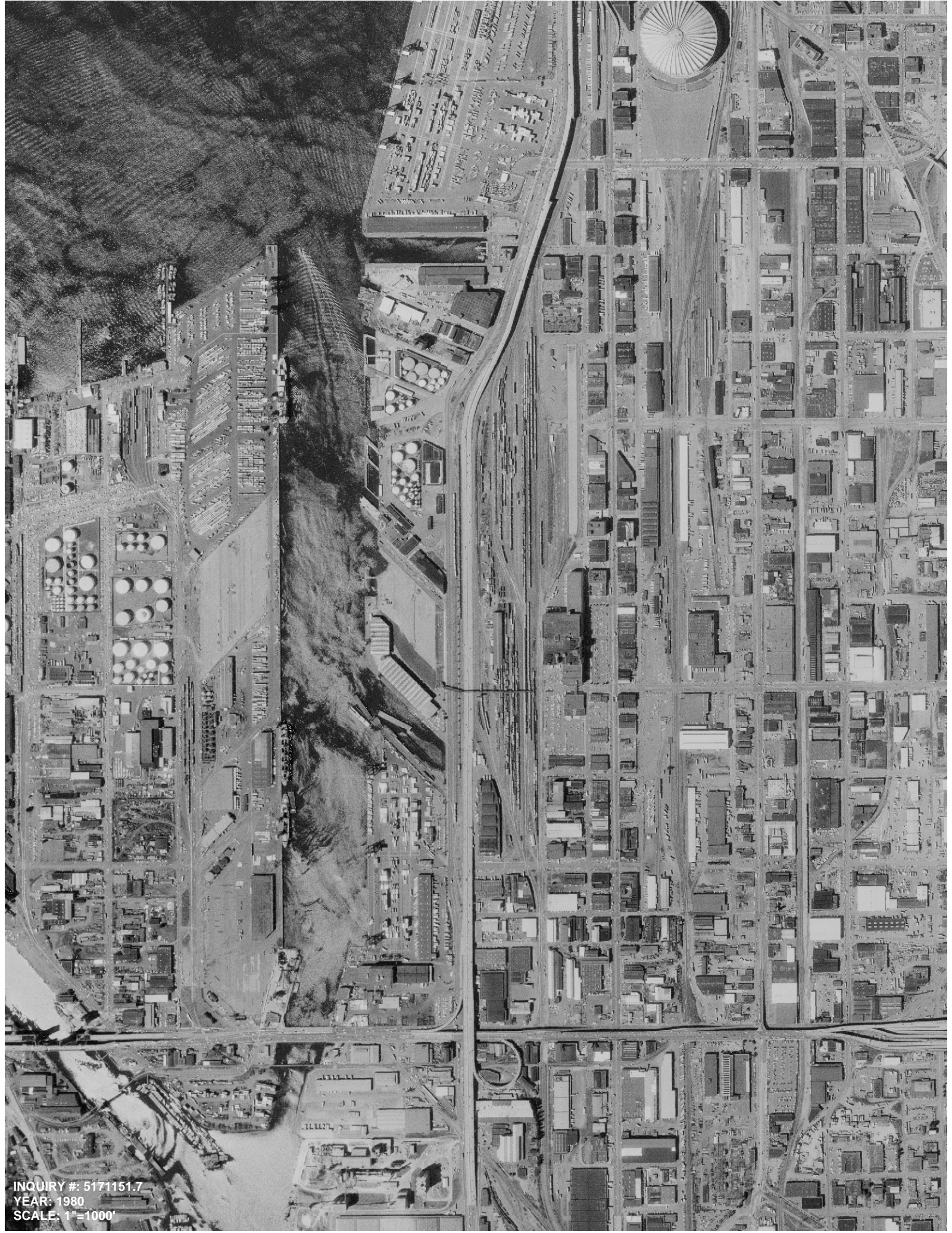
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YEAR: 1977  
SCALE: 1"=1000'





INQUIRY #: 5171151.7  
YEAR: 1977  
SCALE: 1"=1000'





INQUIRY #: 5171151.7  
YEAR: 1980  
SCALE: 1"=1000'





INQUIRY #: 5171151.7  
YEAR: 1980  
SCALE: 1"=1000'



INQUIRY #: 5171151.7  
YEAR: 1990  
SCALE: 1"=1000'





INQUIRY #: 5171151.7  
YEAR: 1990  
SCALE: 1"=1000'





INQUIRY #: 5171151.7  
YEAR: 2006  
SCALE: 1"=1000'





INQUIRY #: 5171151.7  
YEAR: 2006  
SCALE: 1"=1000'



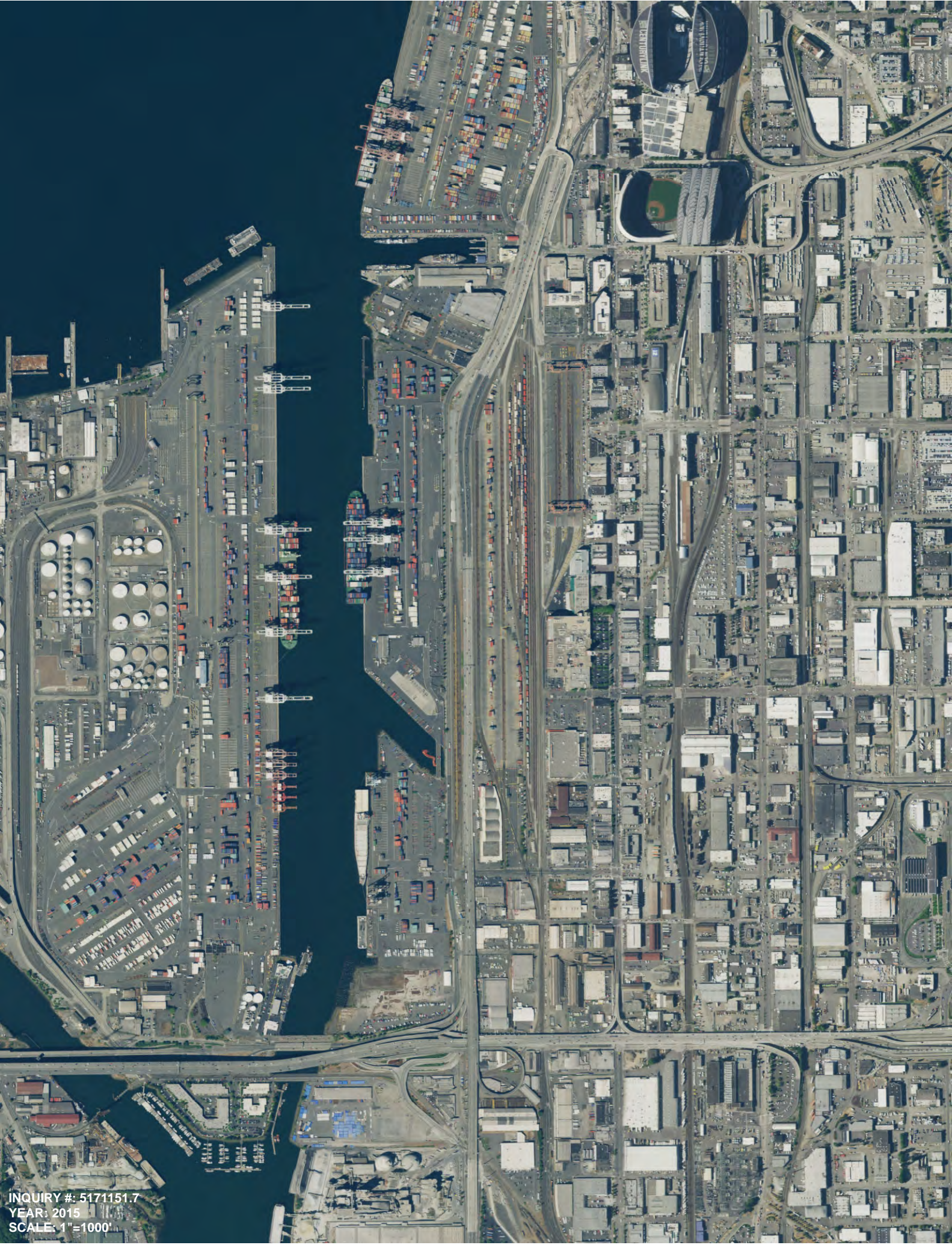






INQUIRY #: 5171151.7  
YEAR: 2011  
SCALE: 1"=1000'





INQUIRY #: 5171151.7  
YEAR: 2015  
SCALE: 1"=1000'





INQUIRY #: 5171151.7  
YEAR: 2015  
SCALE: 1"=1000'



**APPENDIX D**  
**SANBORN FIRE INSURANCE MAPS**





East Marginal Way

East Marginal Way

Seattle, WA 98134

Inquiry Number: 5179204.1

February 07, 2018

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

## Certified Sanborn® Map Report

02/07/18

**Site Name:**

East Marginal Way  
East Marginal Way  
Seattle, WA 98134  
EDR Inquiry # 5179204.1

**Client Name:**

HWA GeoSciences, Inc.  
21312 30th Drive SE  
Bothell, WA 98021  
Contact: Nicole Kapise



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### Certified Sanborn Results:

**Certification #** 37A5-46EB-81BB

**PO #** 2017-074-T302

**Project** East Marginal Way

\* Environmental Data Resources, Inc. has been instructed by HWA GeoSciences, Inc. to print ONLY the Sanborn Maps for the years listed below:

1967 (12)

1949 (15)

1929 (12)

1916 (6)

1904 (7)



Sanborn® Library search results

Certification #: 37A5-46EB-81BB

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☒ Library of Congress
- ☒ University Publications of America
- ☒ EDR Private Collection

*The Sanborn Library LLC Since 1866™*

Total Maps: 52

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## Certified Sanborn® Map Report

03/13/18

**Site Name:**

East Marginal Way  
East Marginal Way  
Seattle, WA 98134  
EDR Inquiry # 5214265.1

**Client Name:**

HWA GeoSciences, Inc.  
21312 30th Drive SE  
Bothell, WA 98021  
Contact: Nicole Kapise



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**Certification #** 0F88-46AD-B486

**PO #** 2017-074-T302

**Project** East Marginal Way

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1969 (10)

1950 (10)



Sanborn® Library search results

Certification #: 0F88-46AD-B486

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- ☒ Library of Congress
- ☒ University Publications of America
- ☒ EDR Private Collection

*The Sanborn Library LLC Since 1866™*

Total Maps: 20

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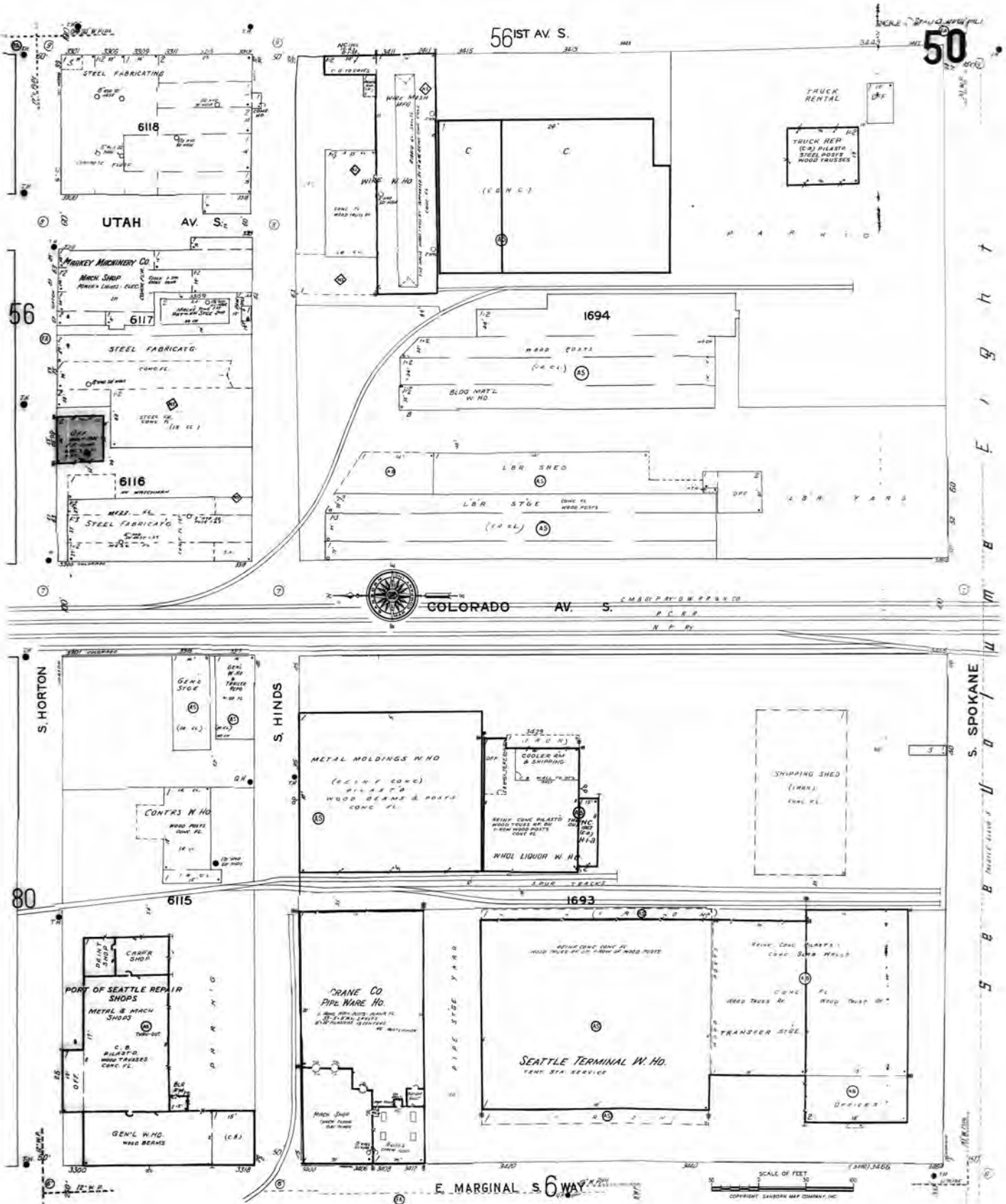
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5214265 - 1 page 3

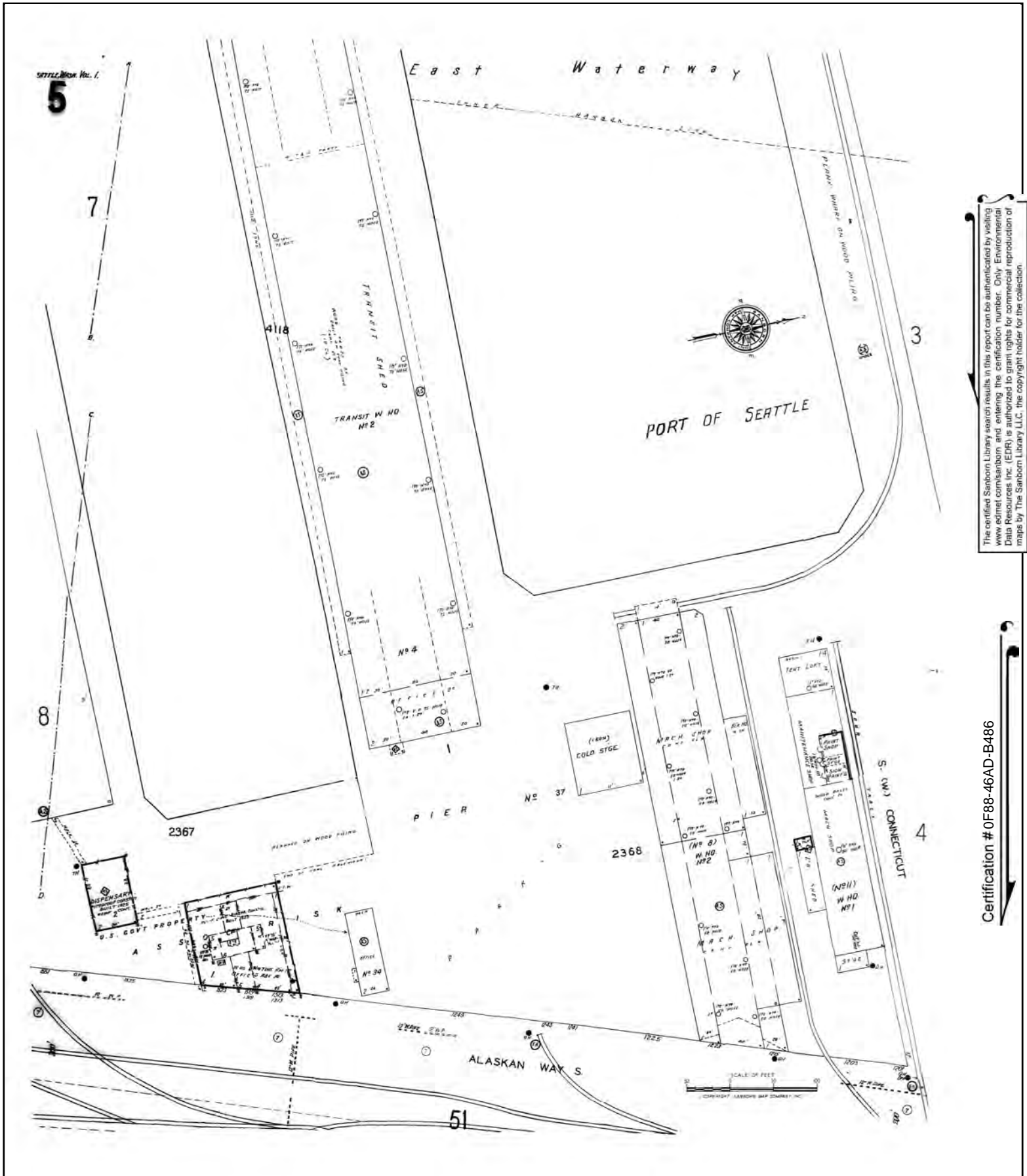




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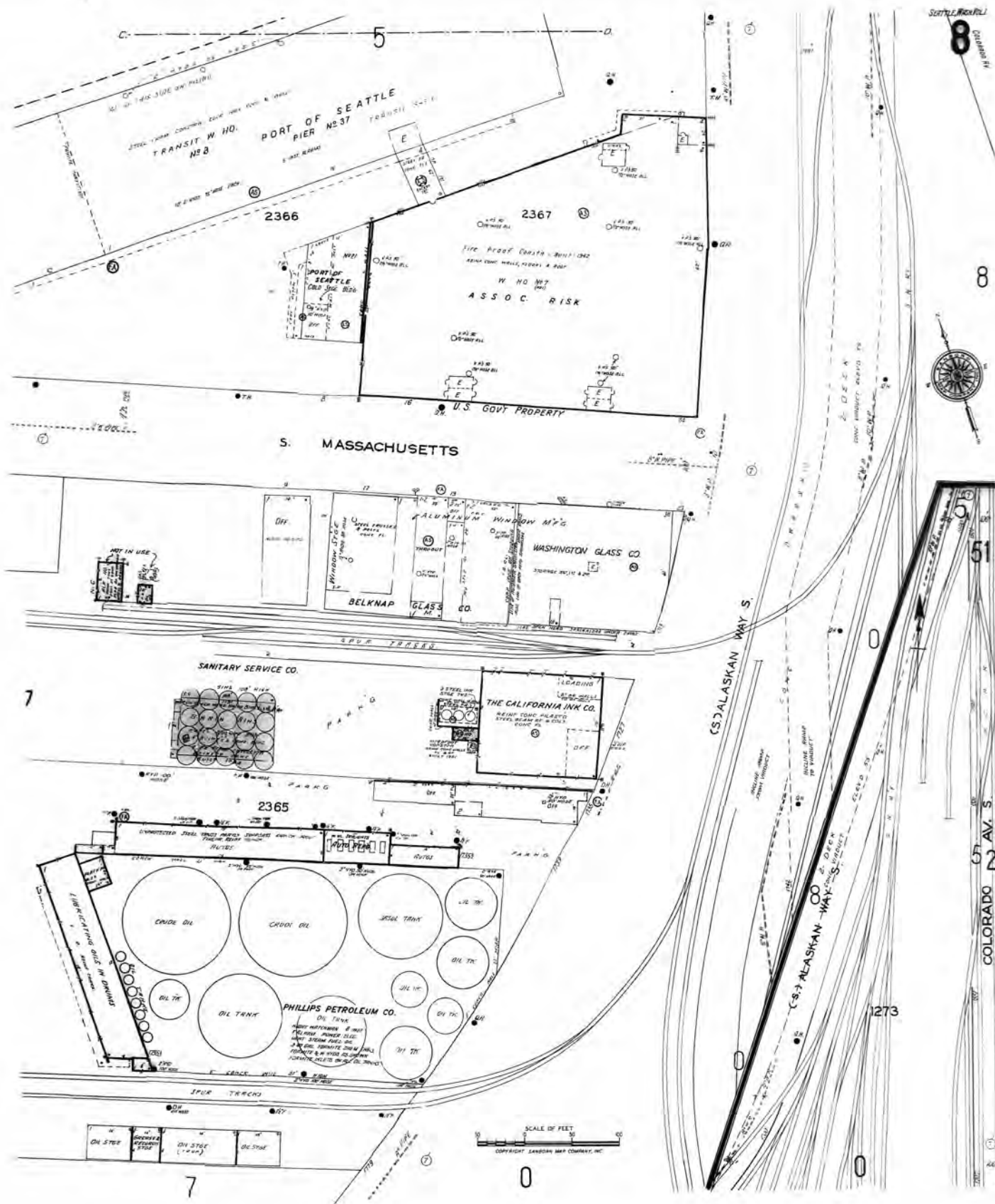


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Certification # 0F88-46AD-B486



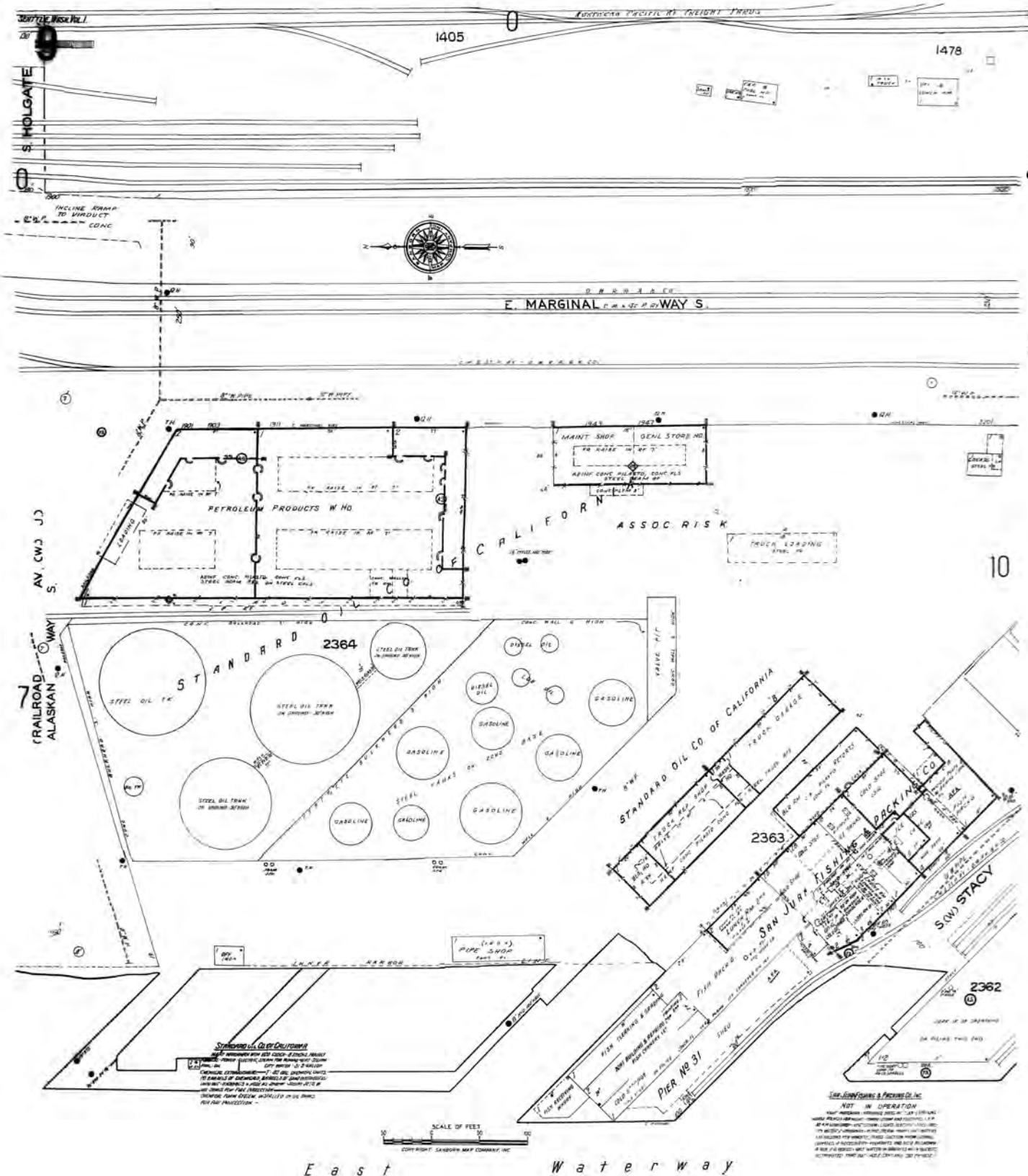




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Certification # 0F88-46AD-B486





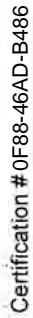
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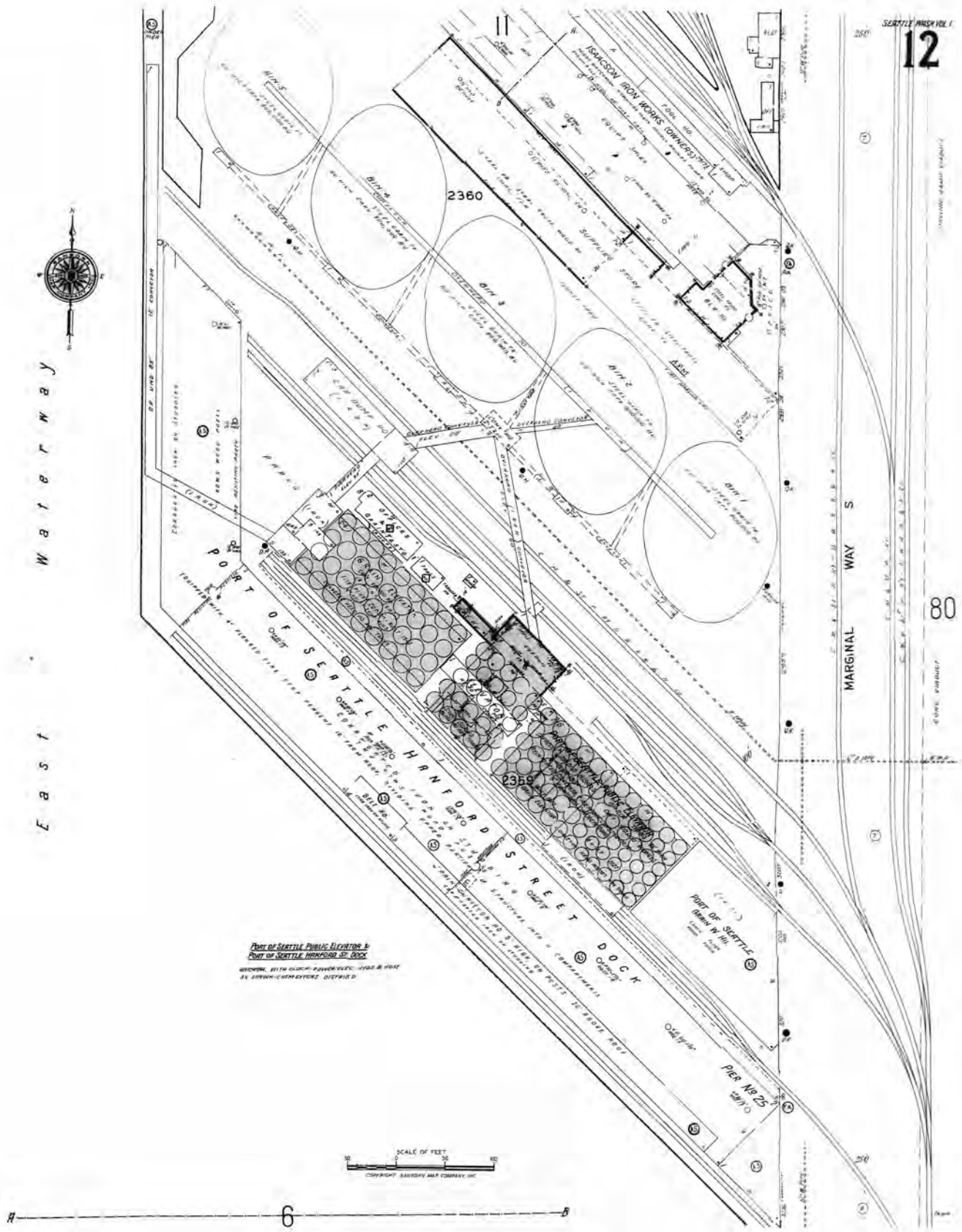








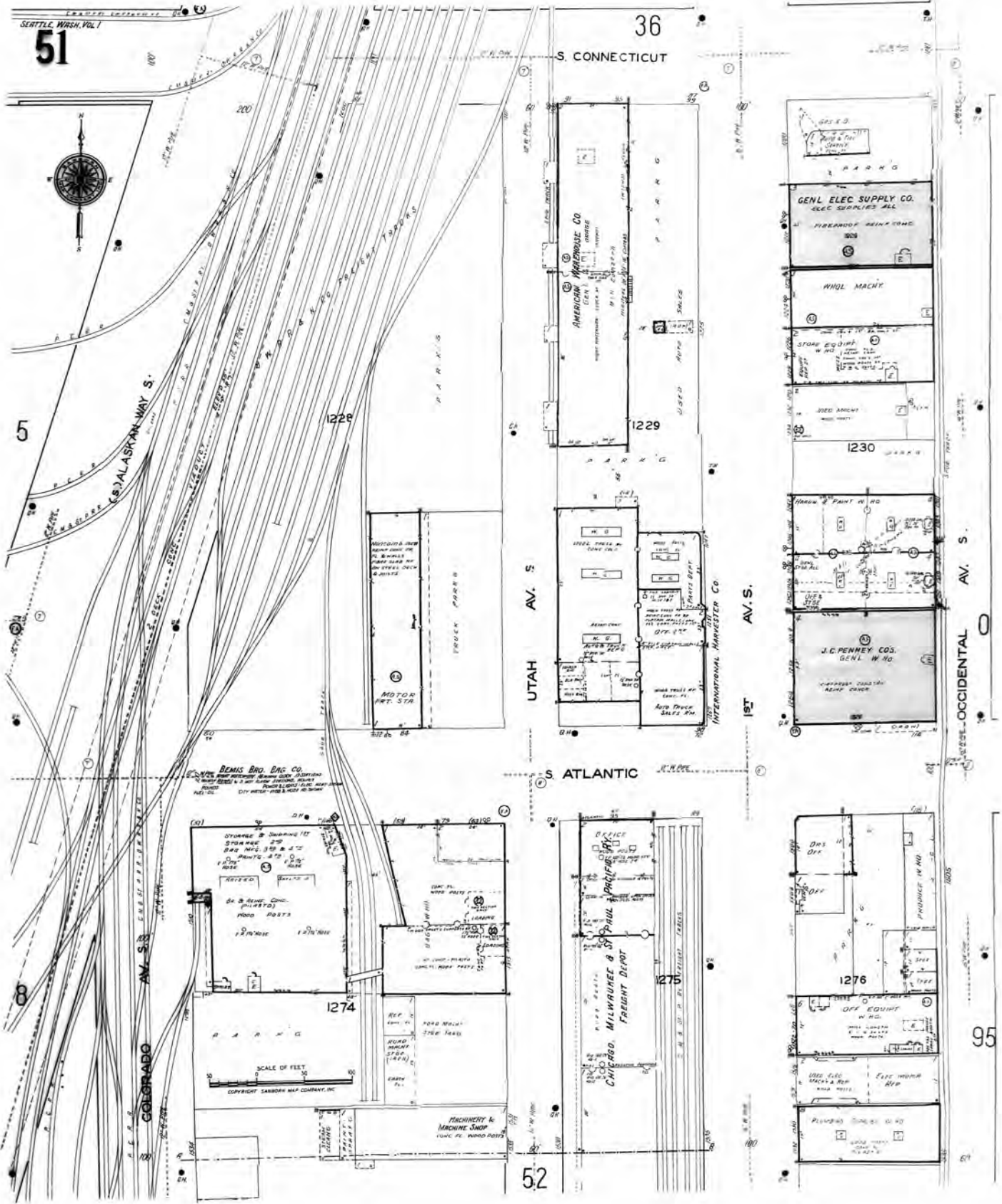




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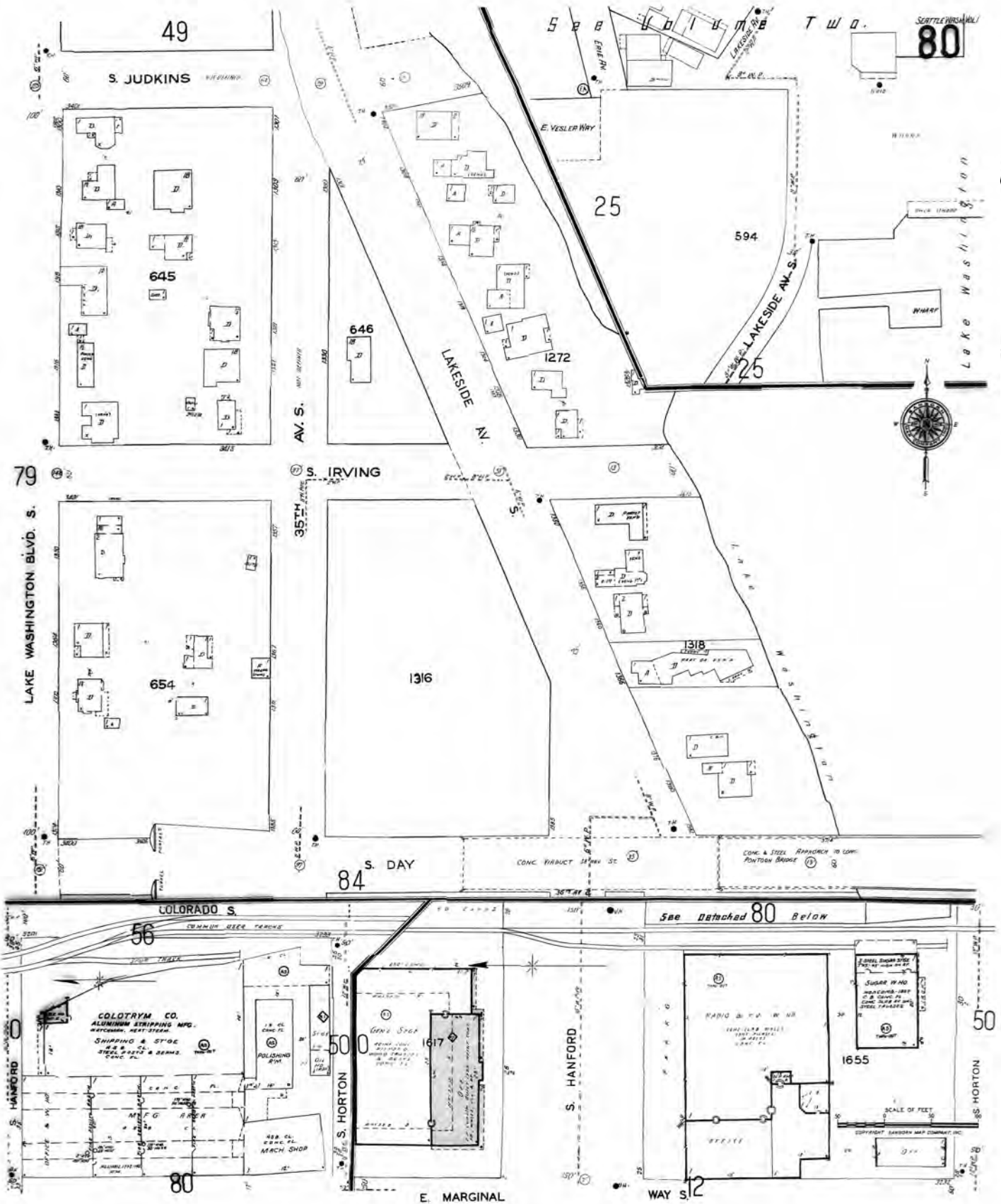


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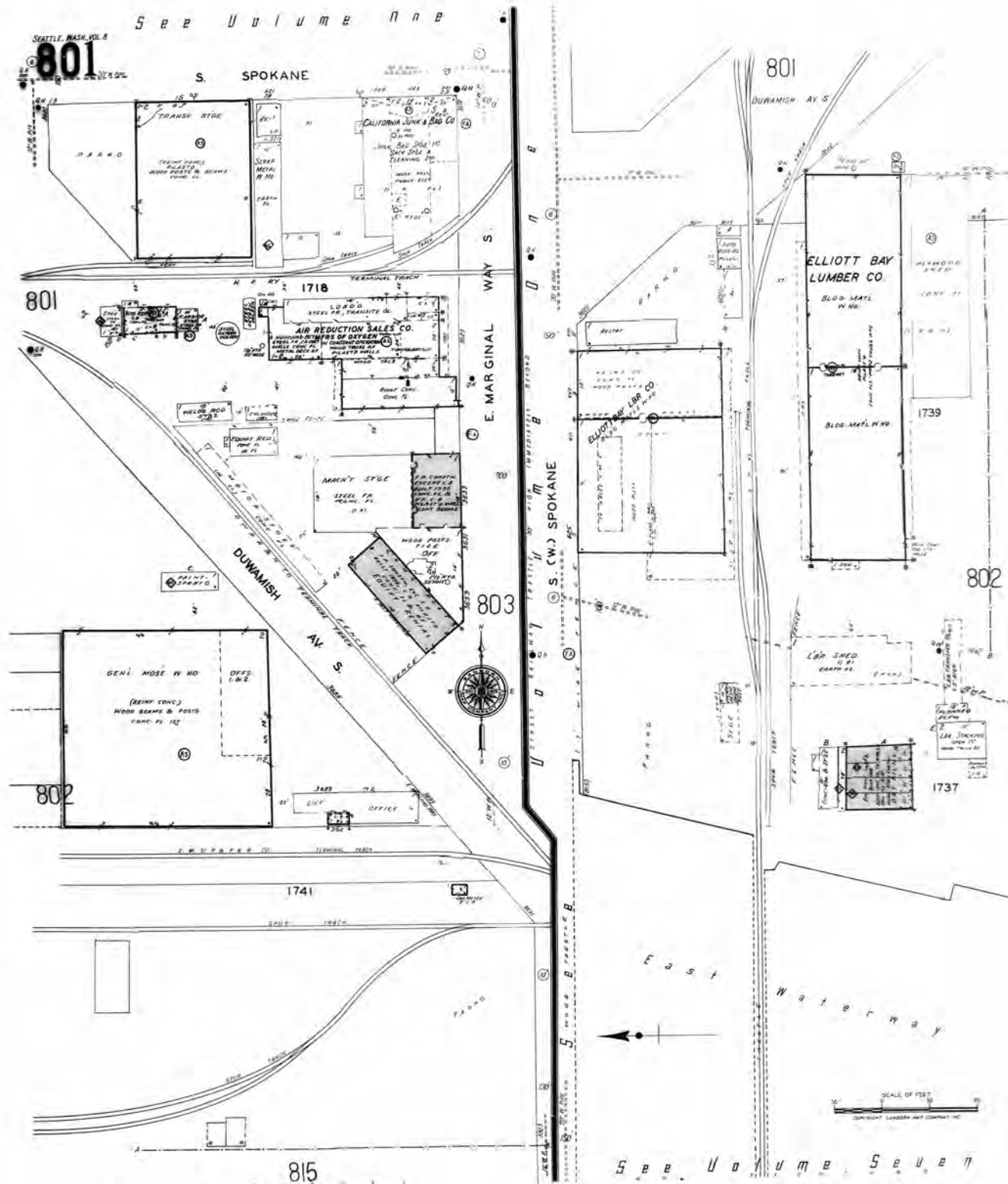




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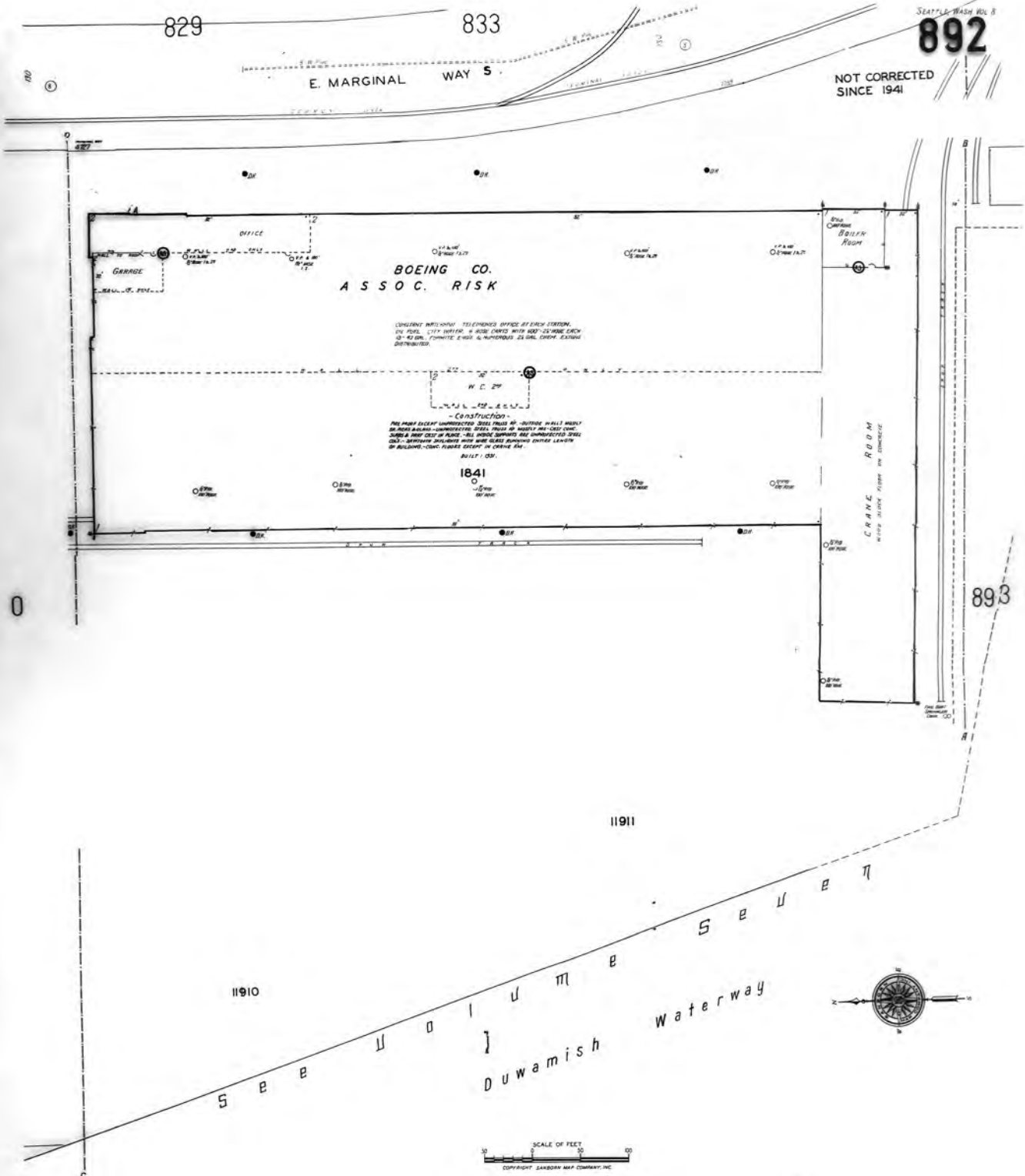


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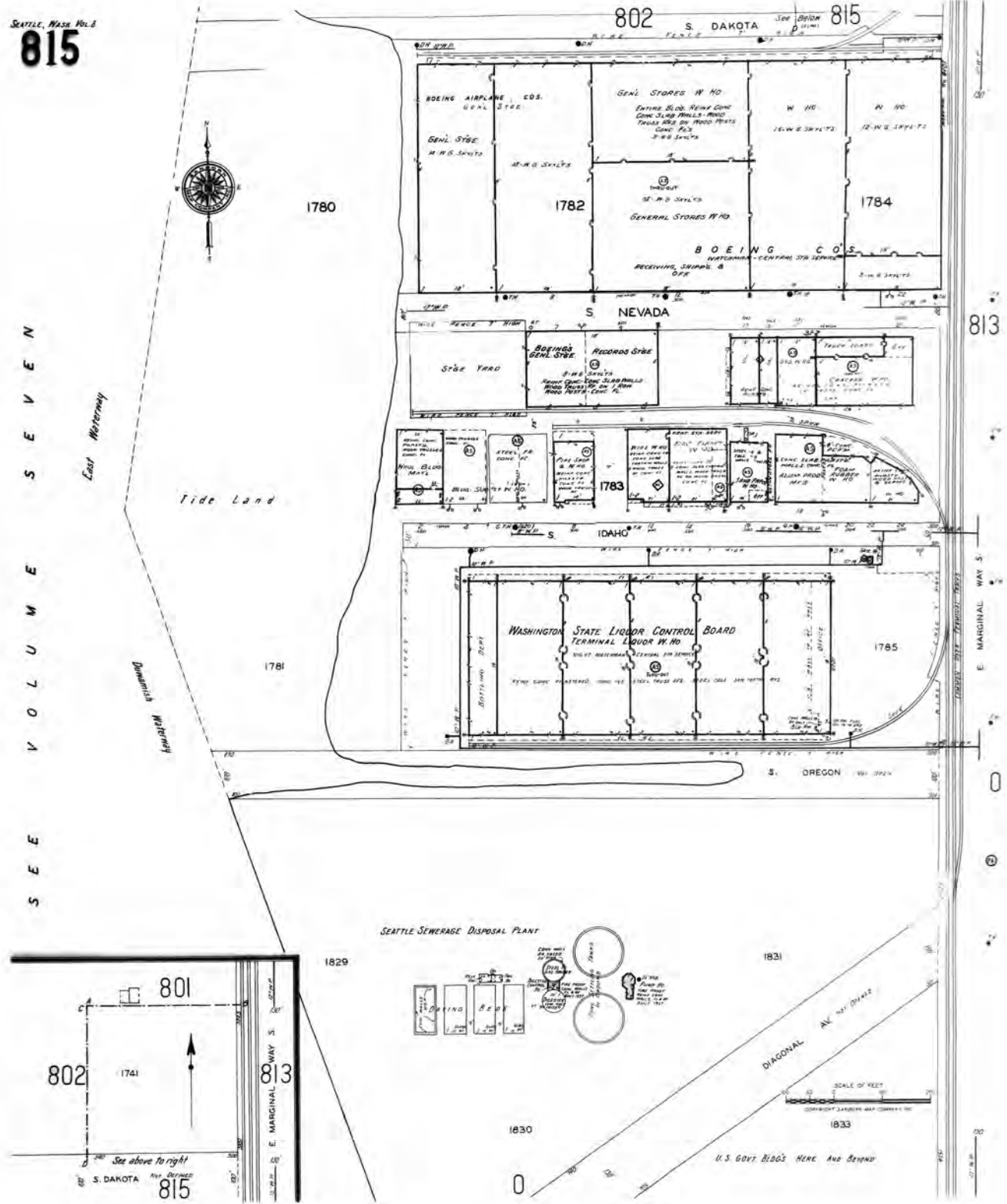




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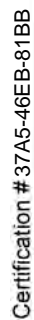


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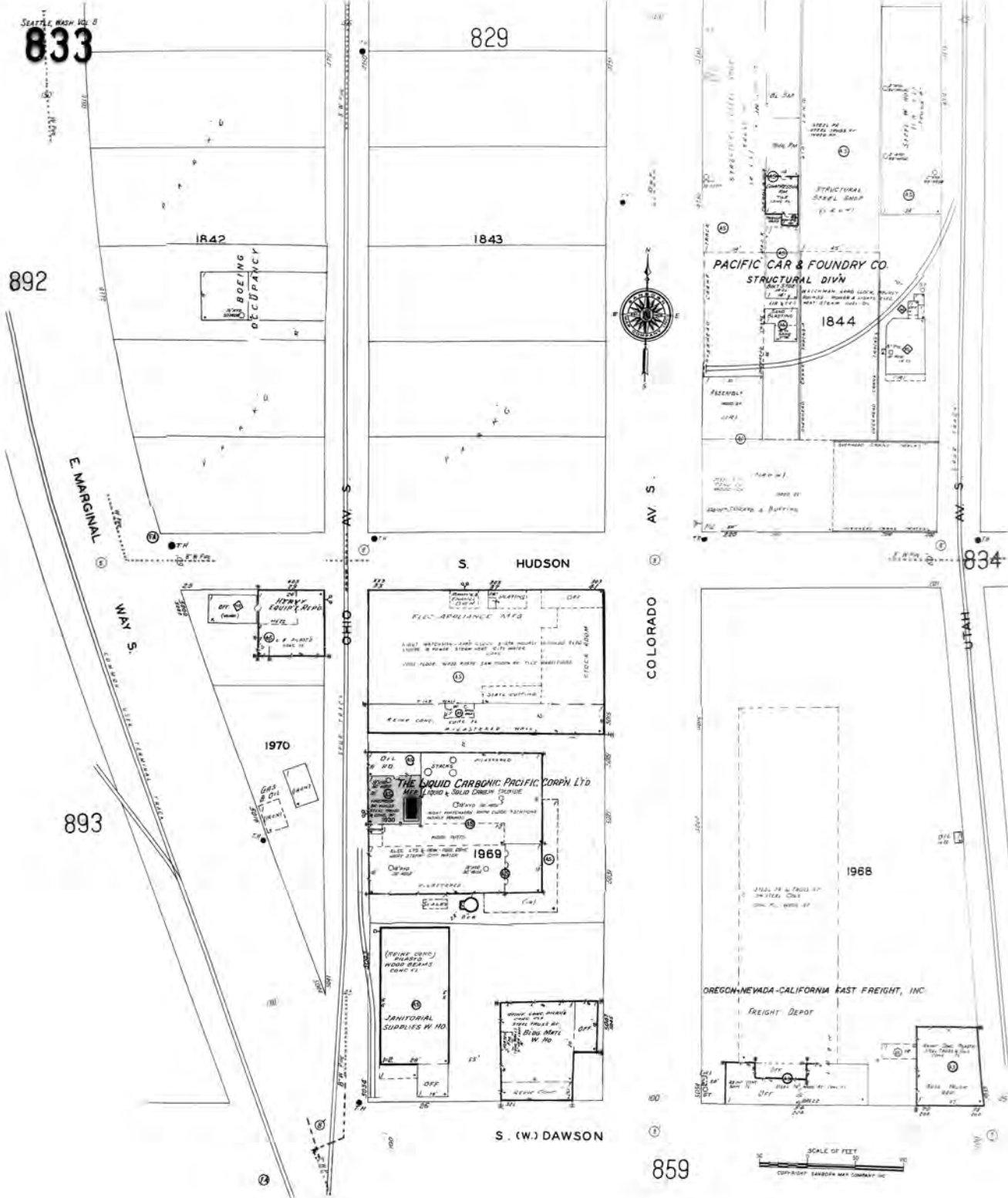
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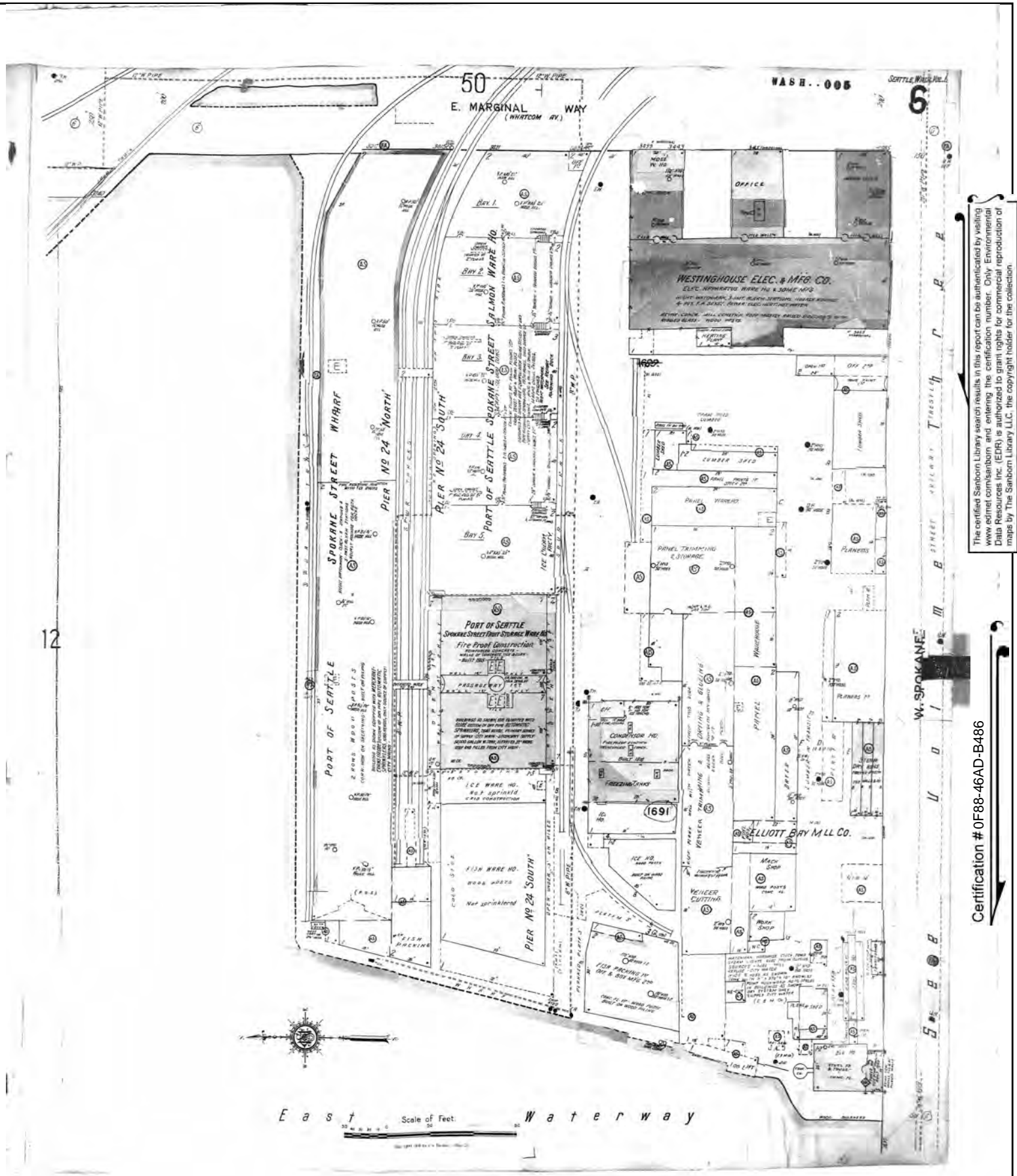


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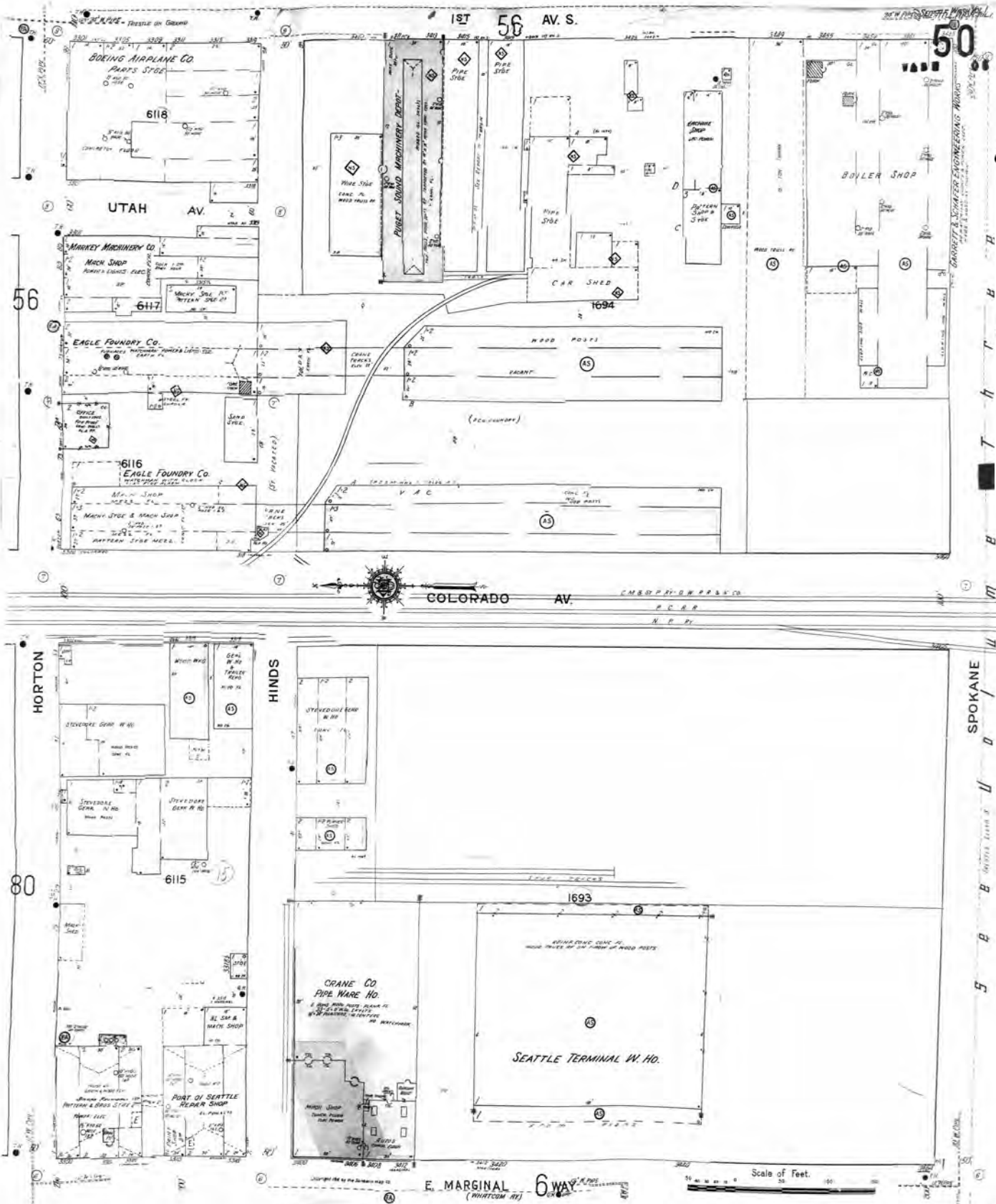




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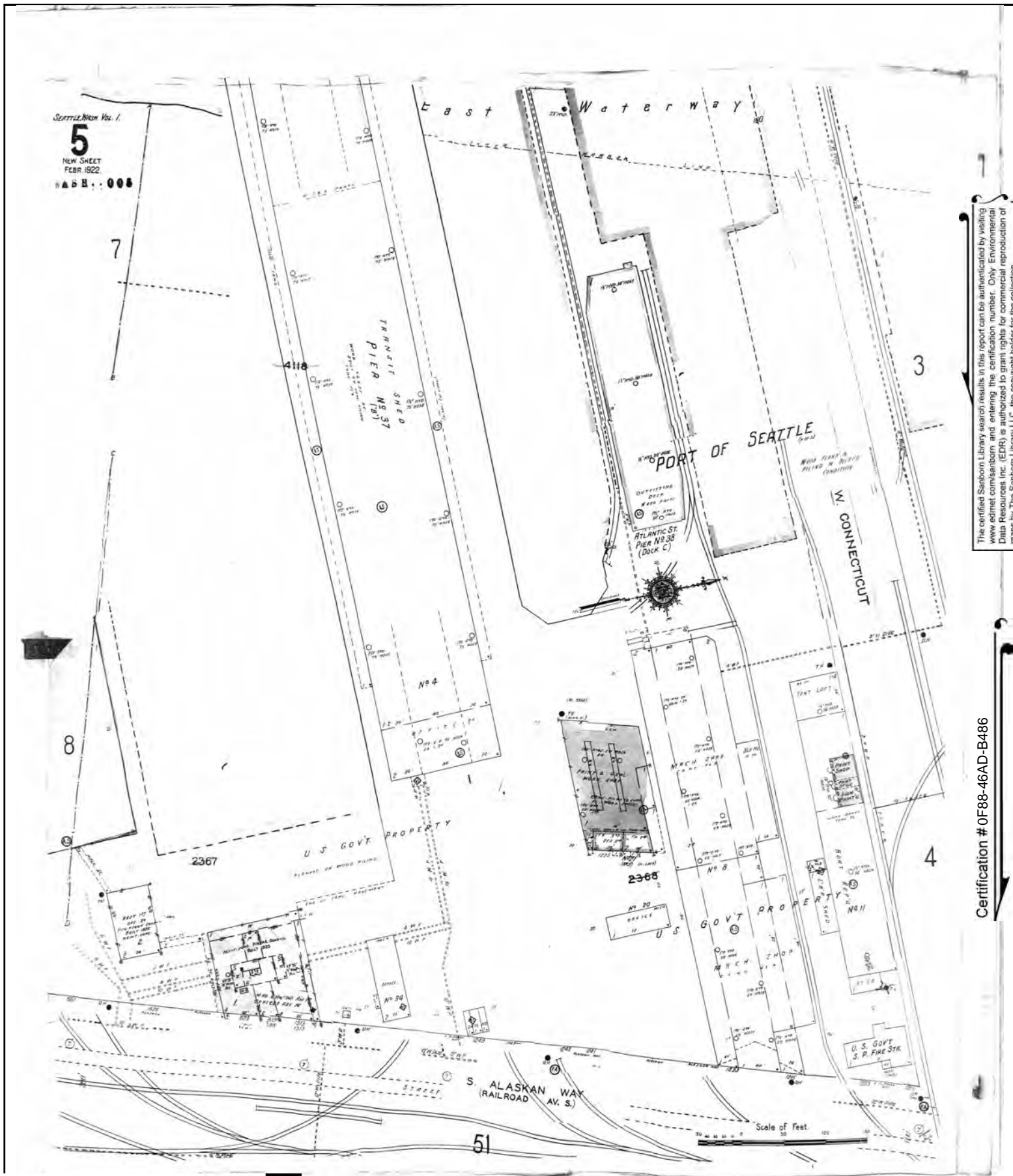


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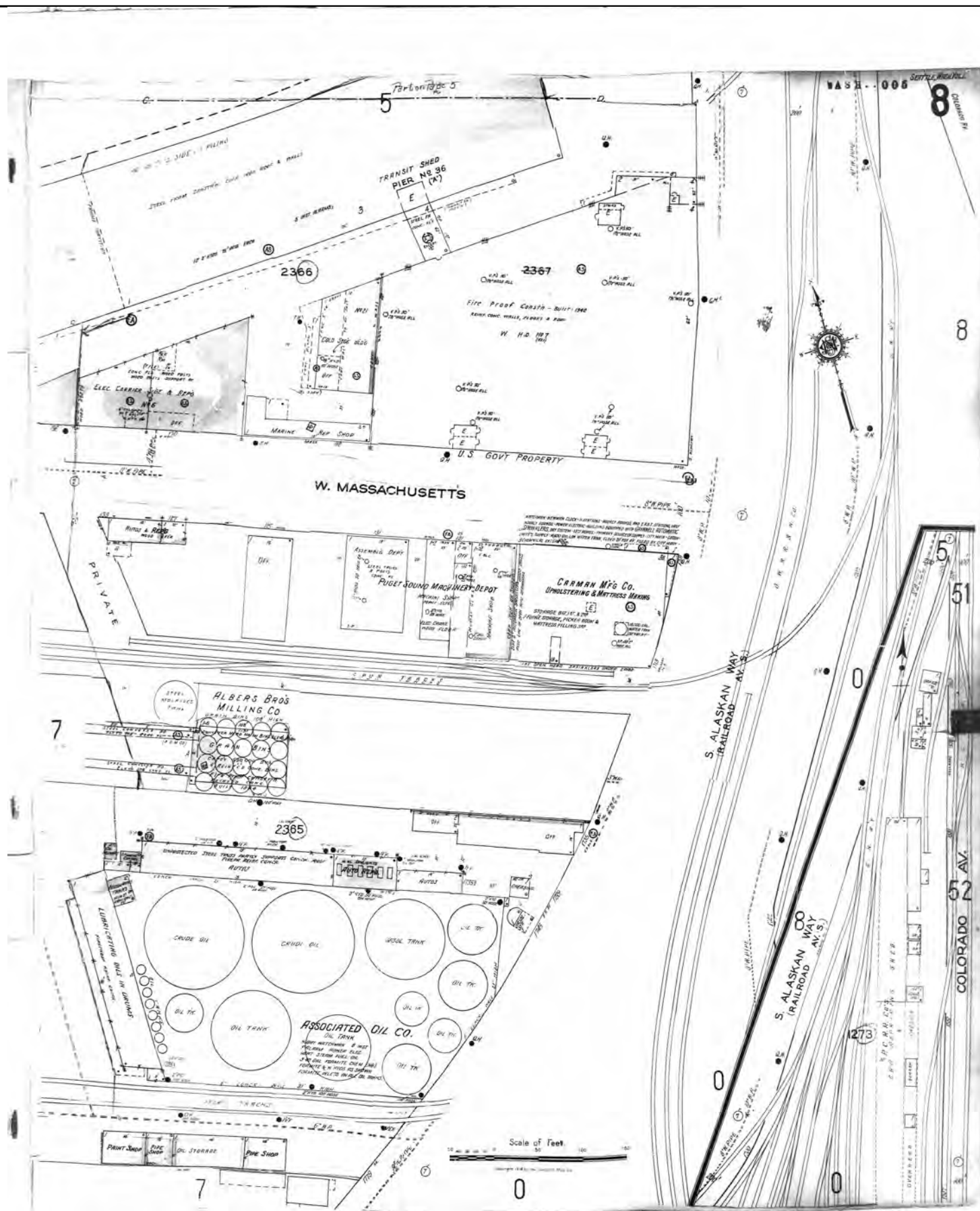




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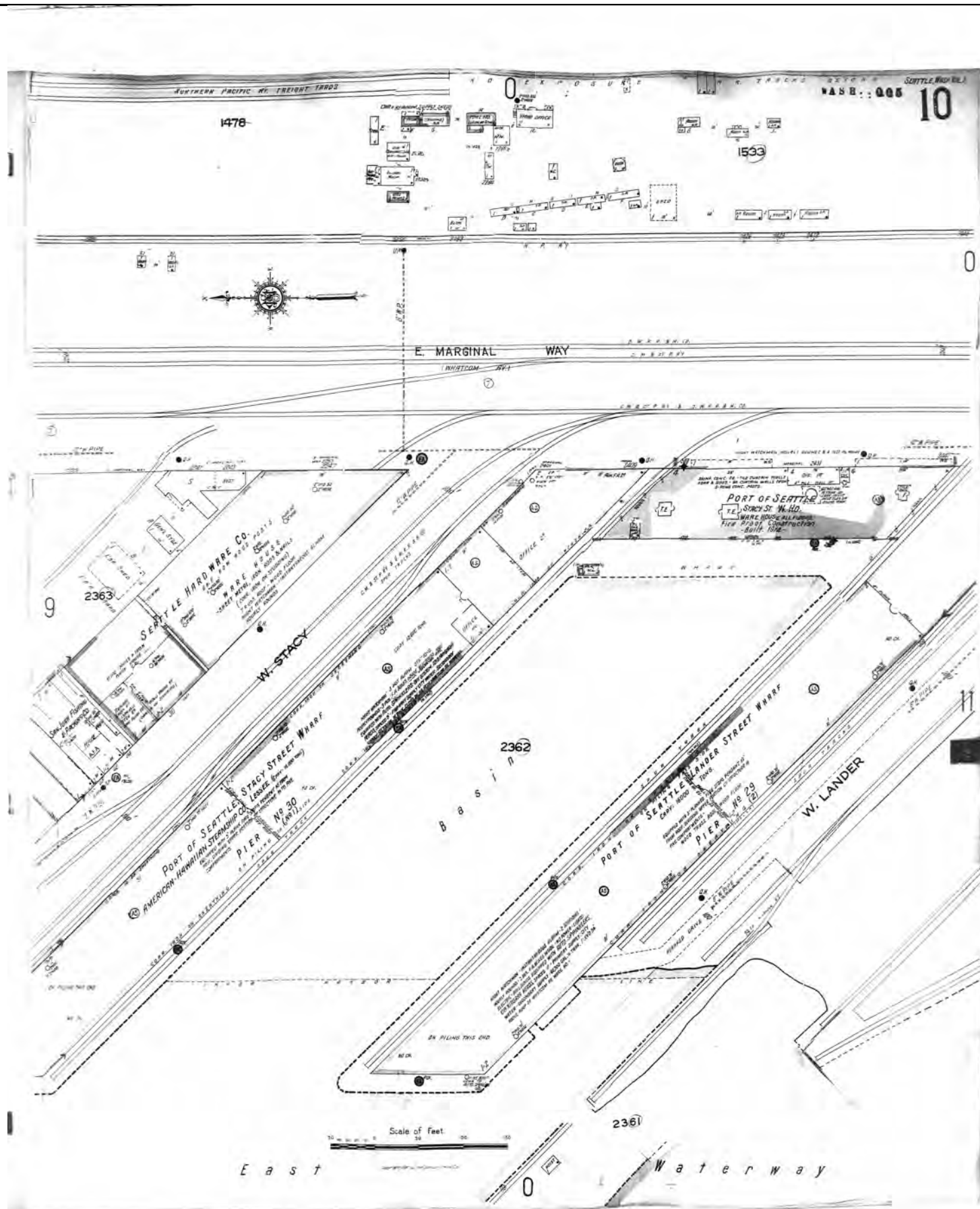
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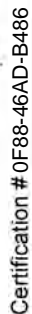
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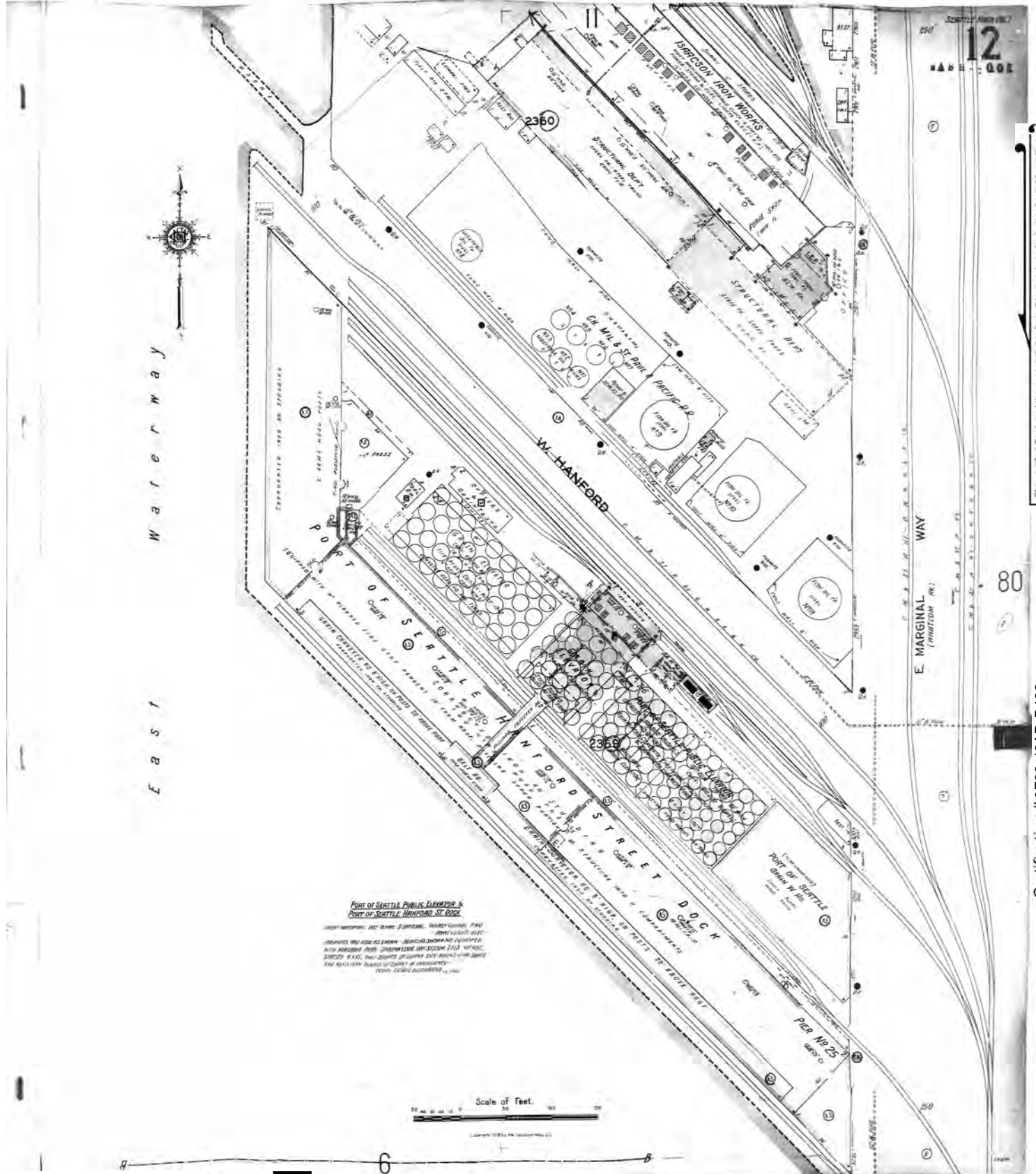
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Site Name: East Marginal Way  
Address: East Marginal Way  
City, ST, ZIP: Seattle, WA 98134  
Client: HWA GeoSciences, Inc.  
EDR Inquiry: 5214265.1  
Order Date: 03/13/2018  
Certification #: 0F88-46AD-B486  
Copyright: 1950







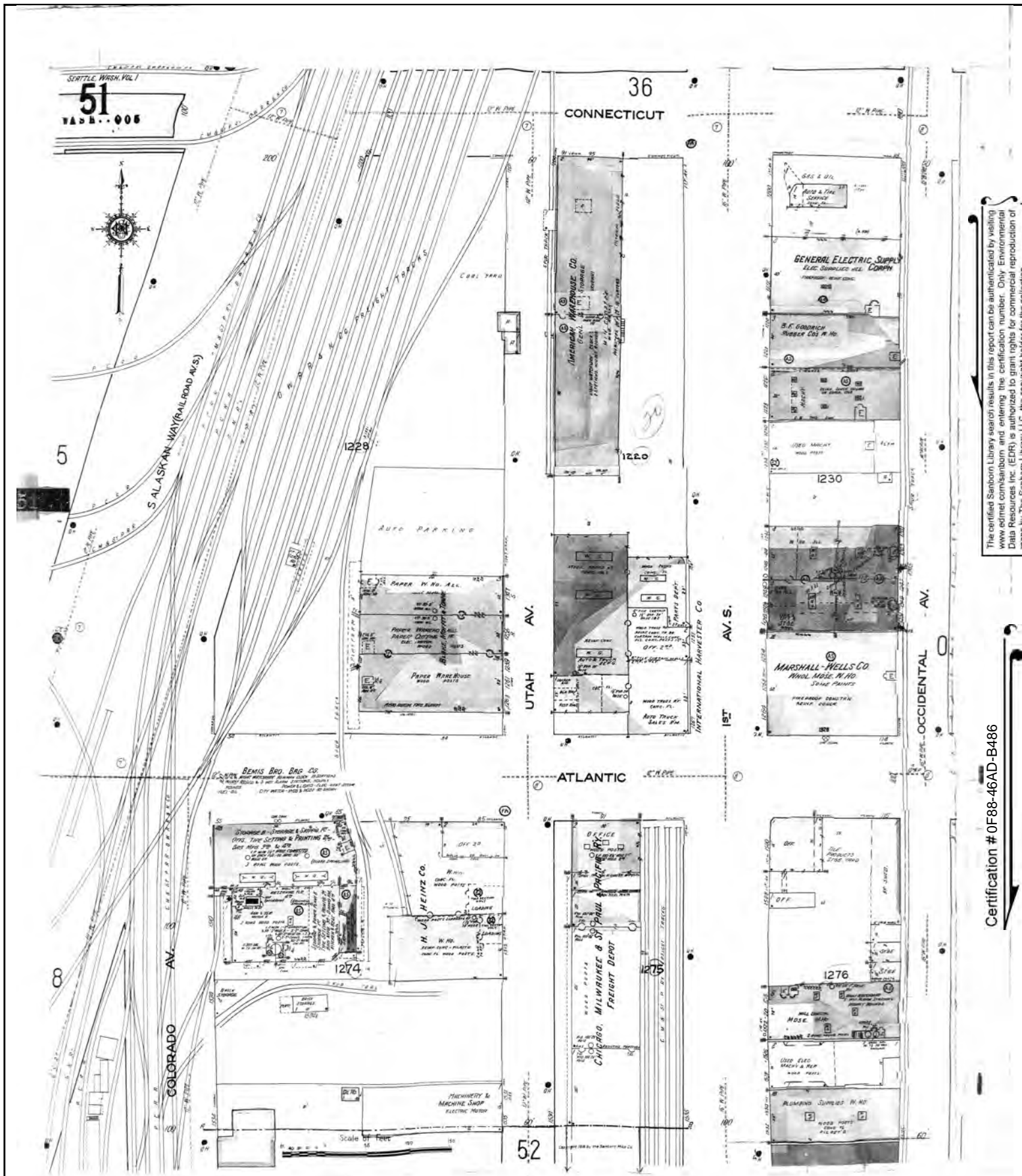


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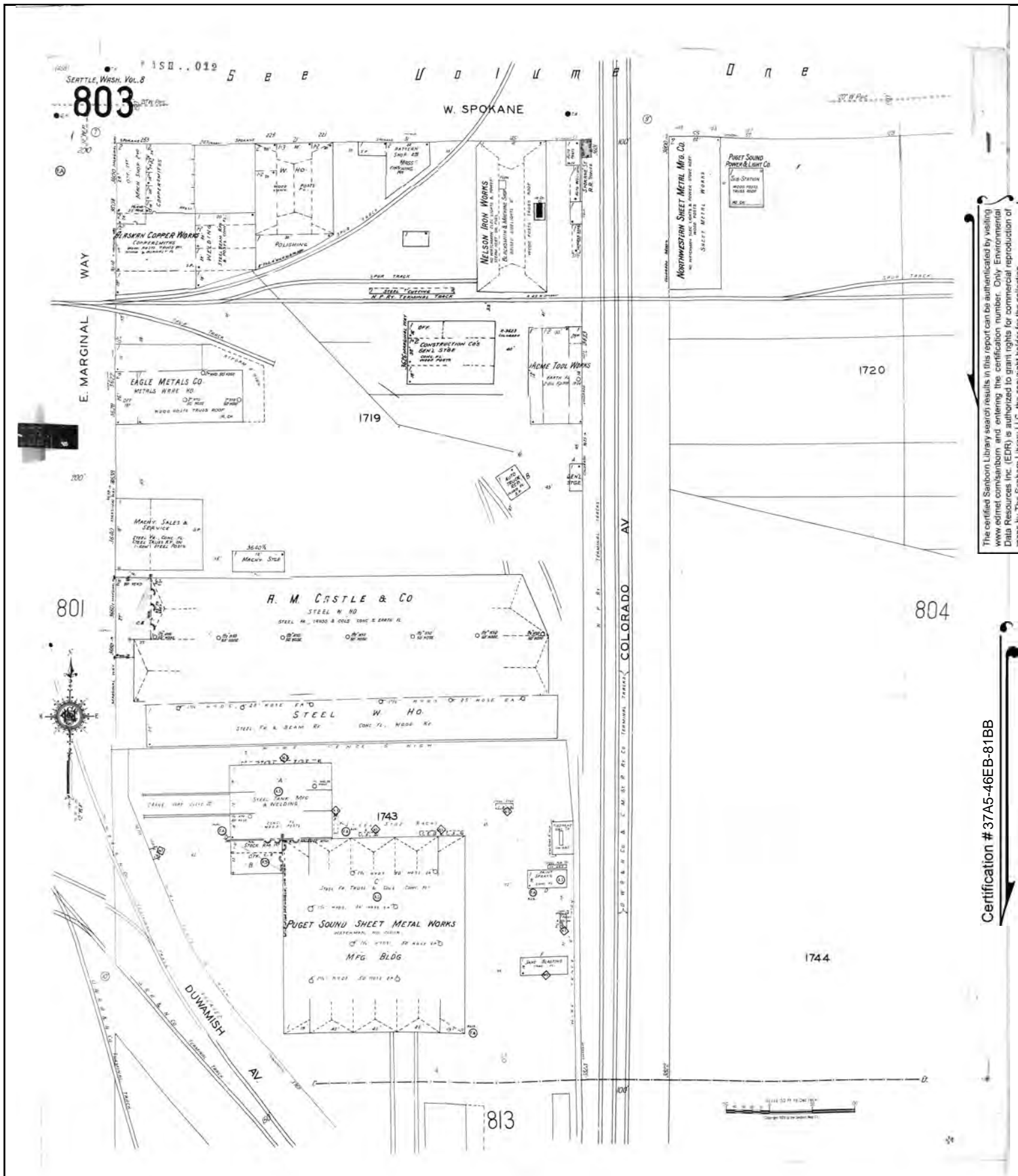
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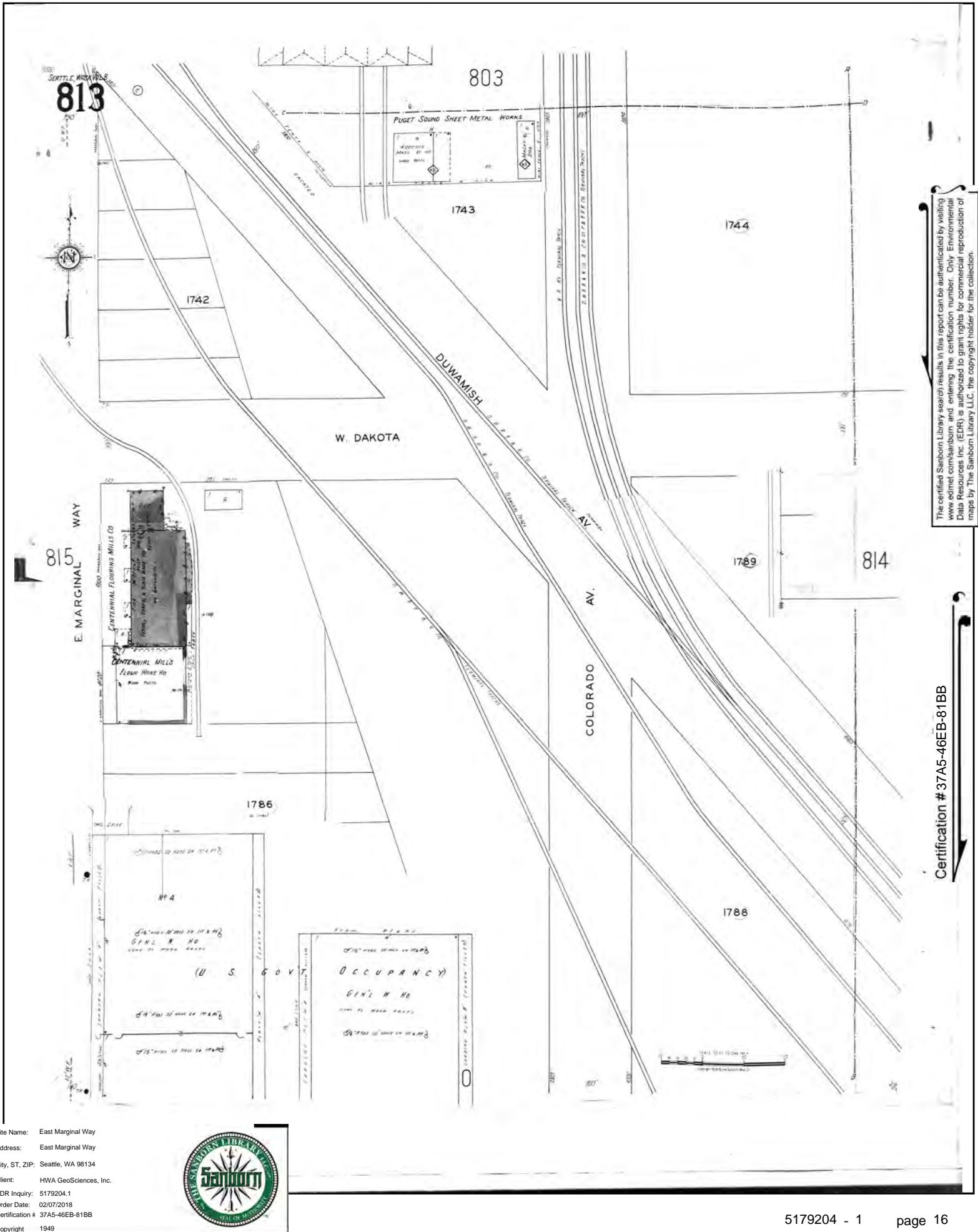




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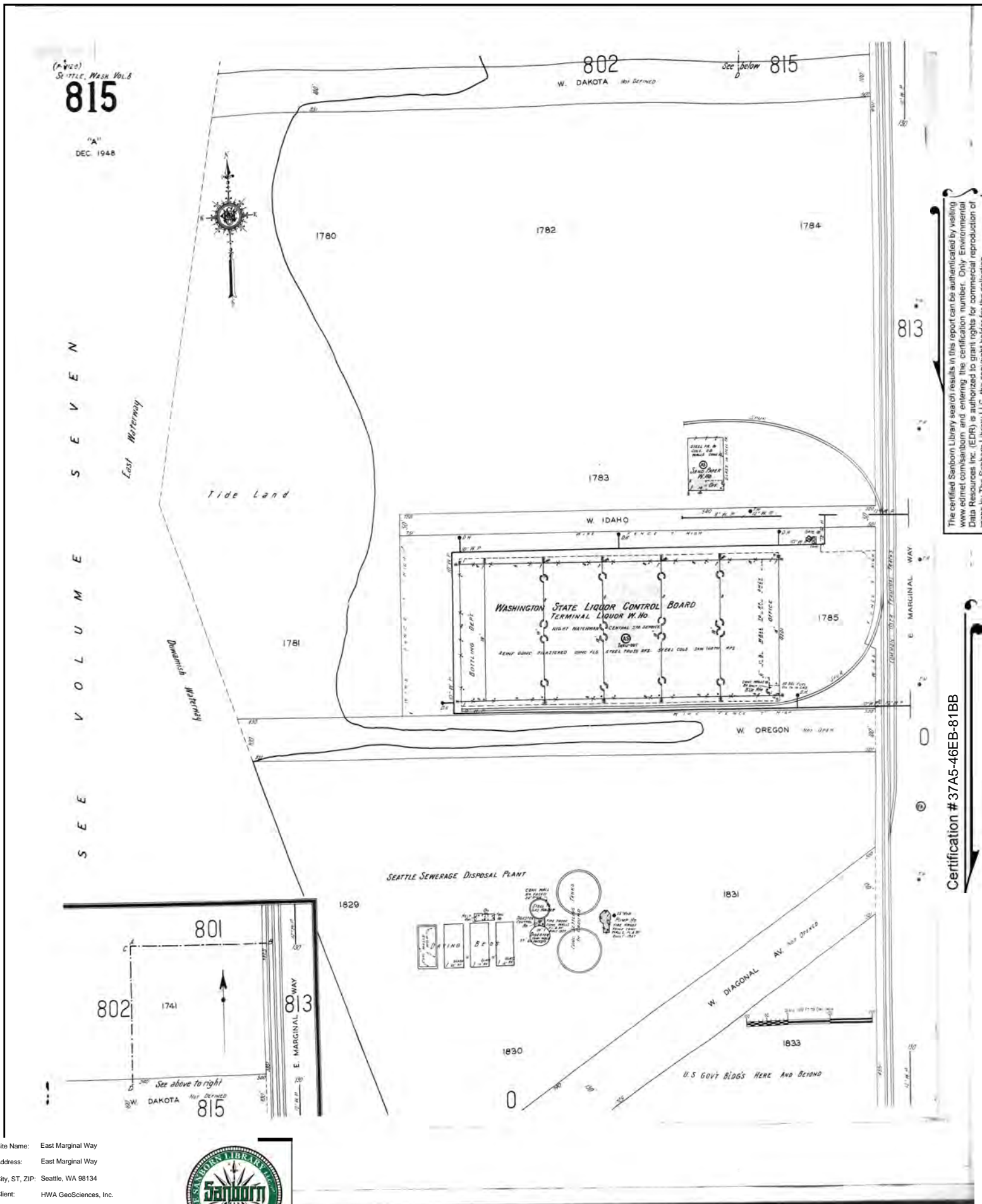


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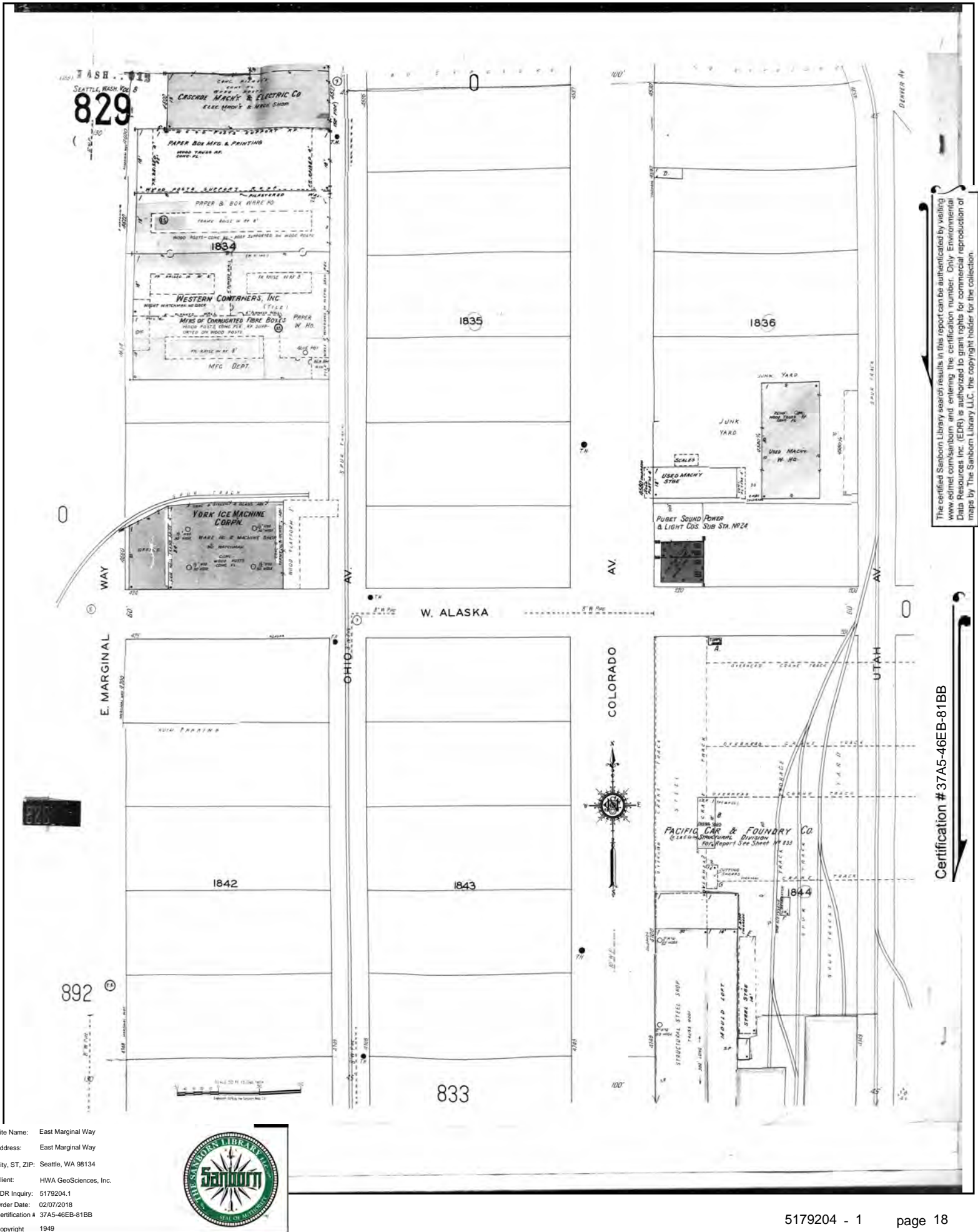




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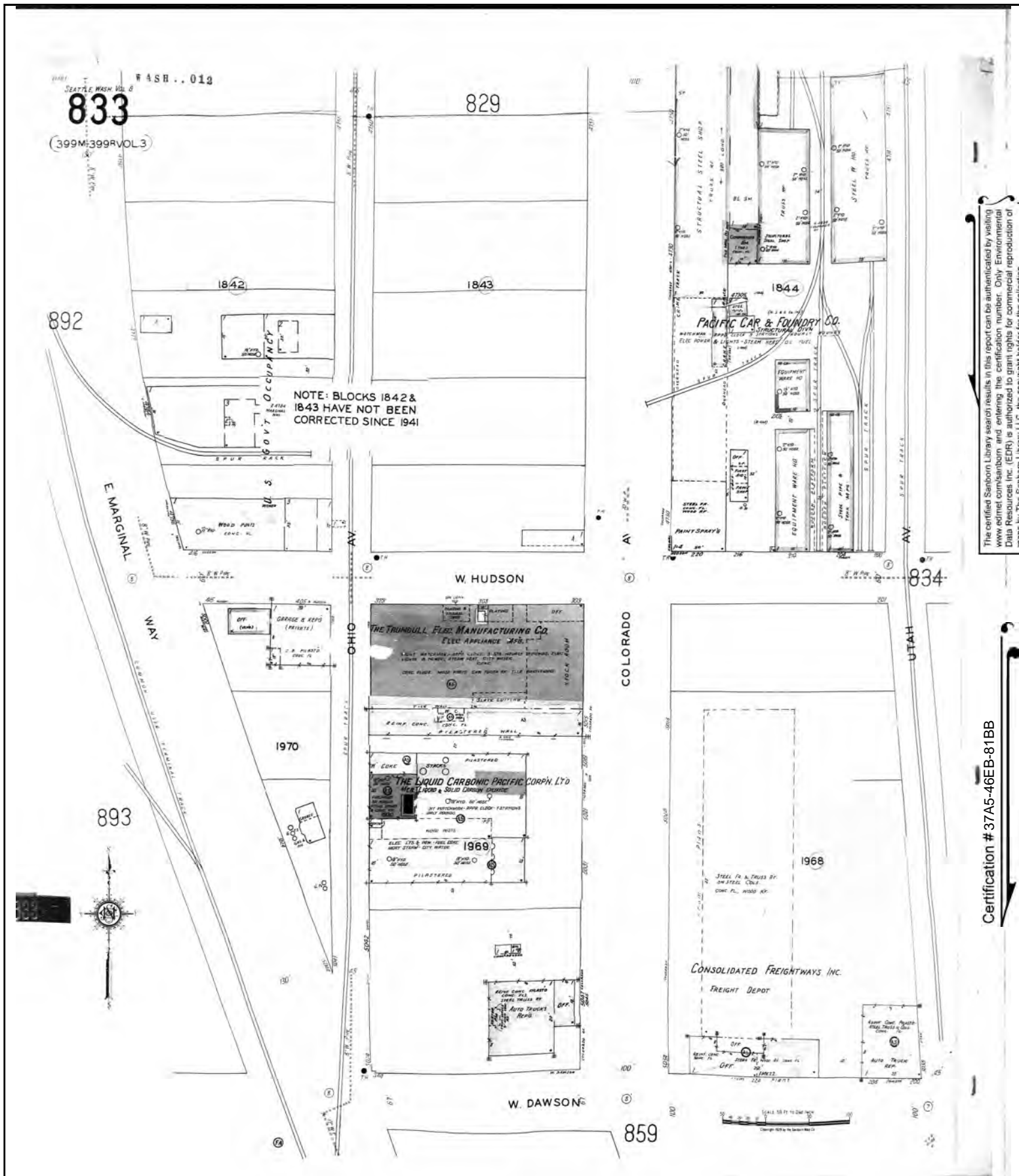


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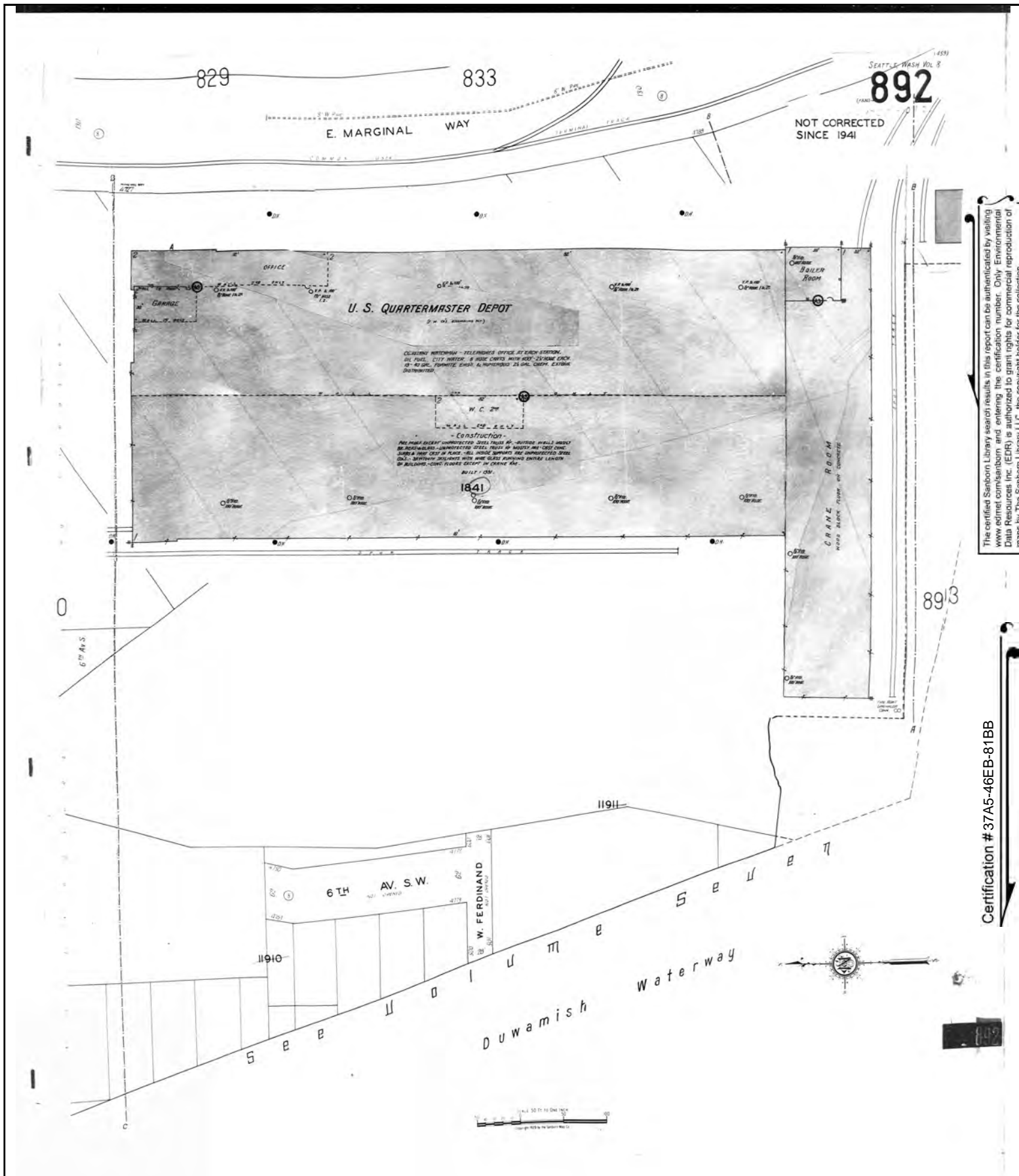




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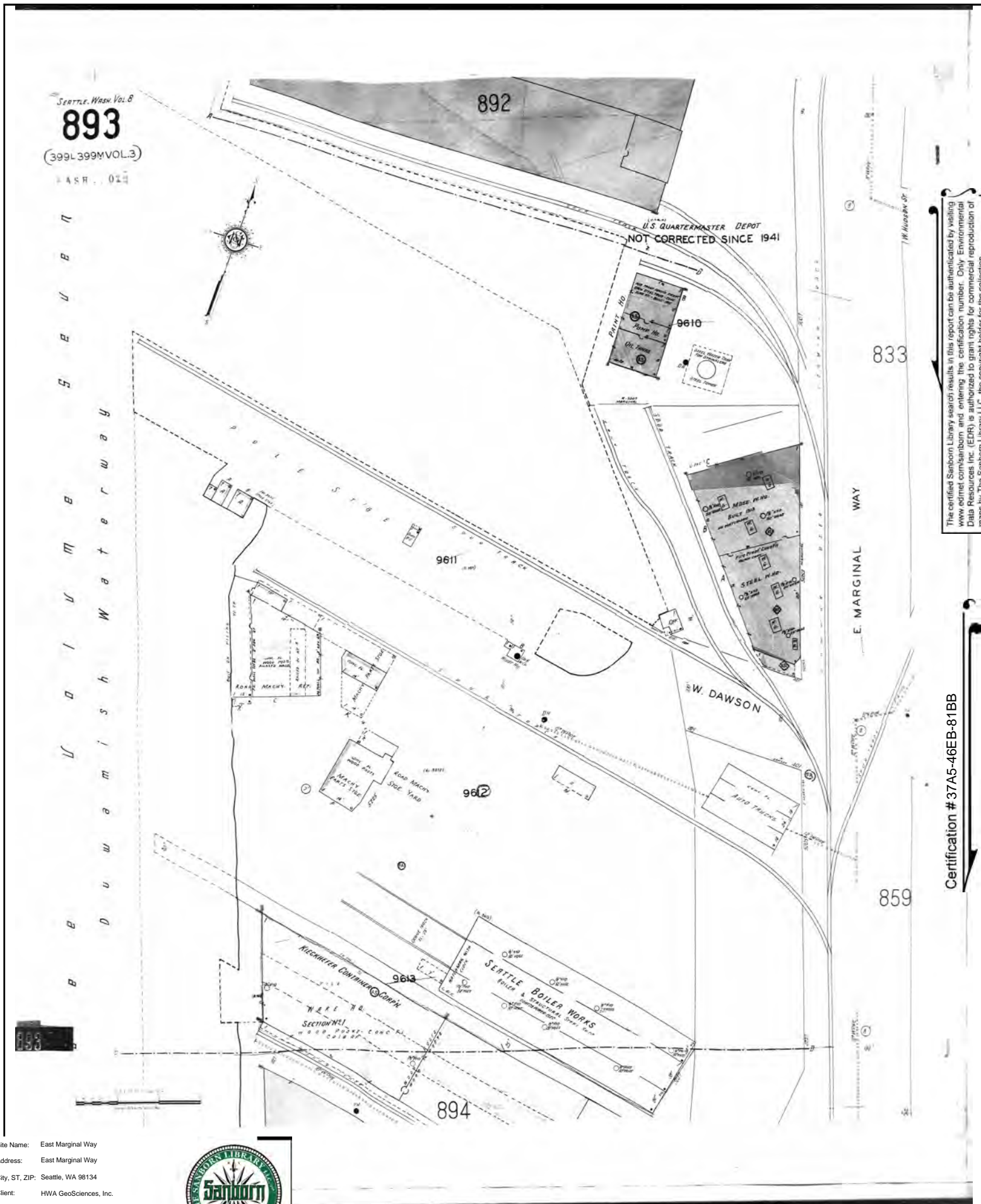


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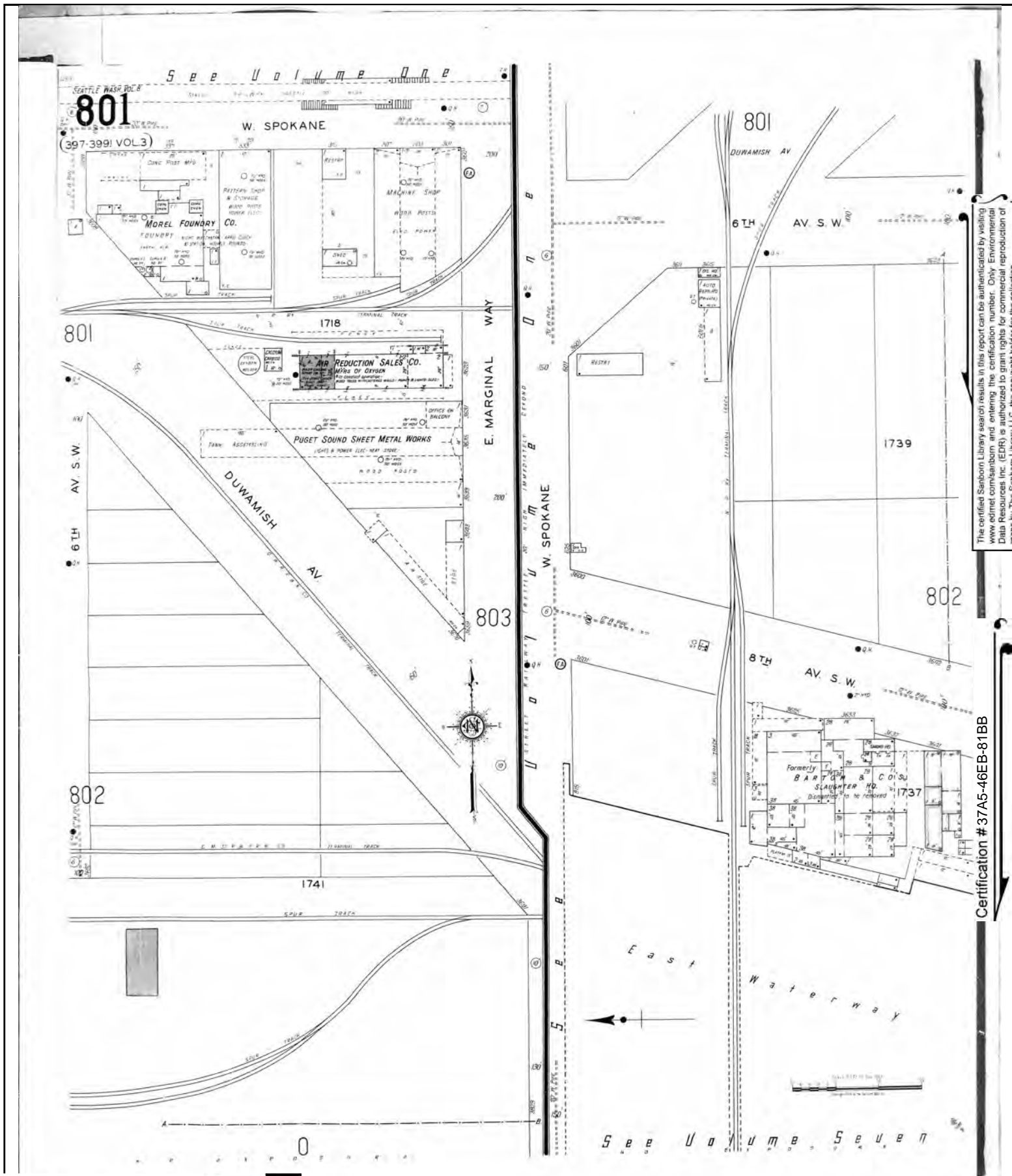




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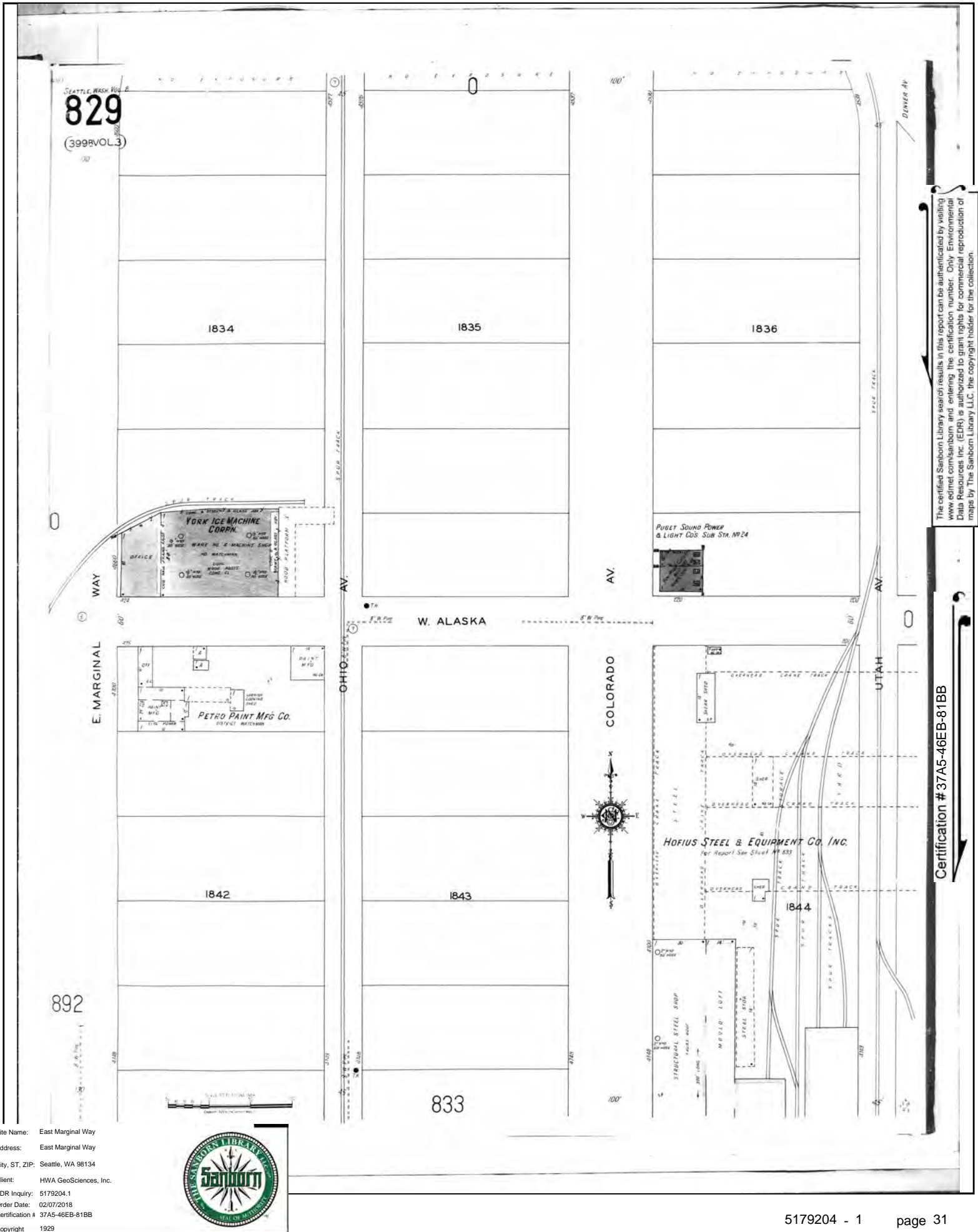


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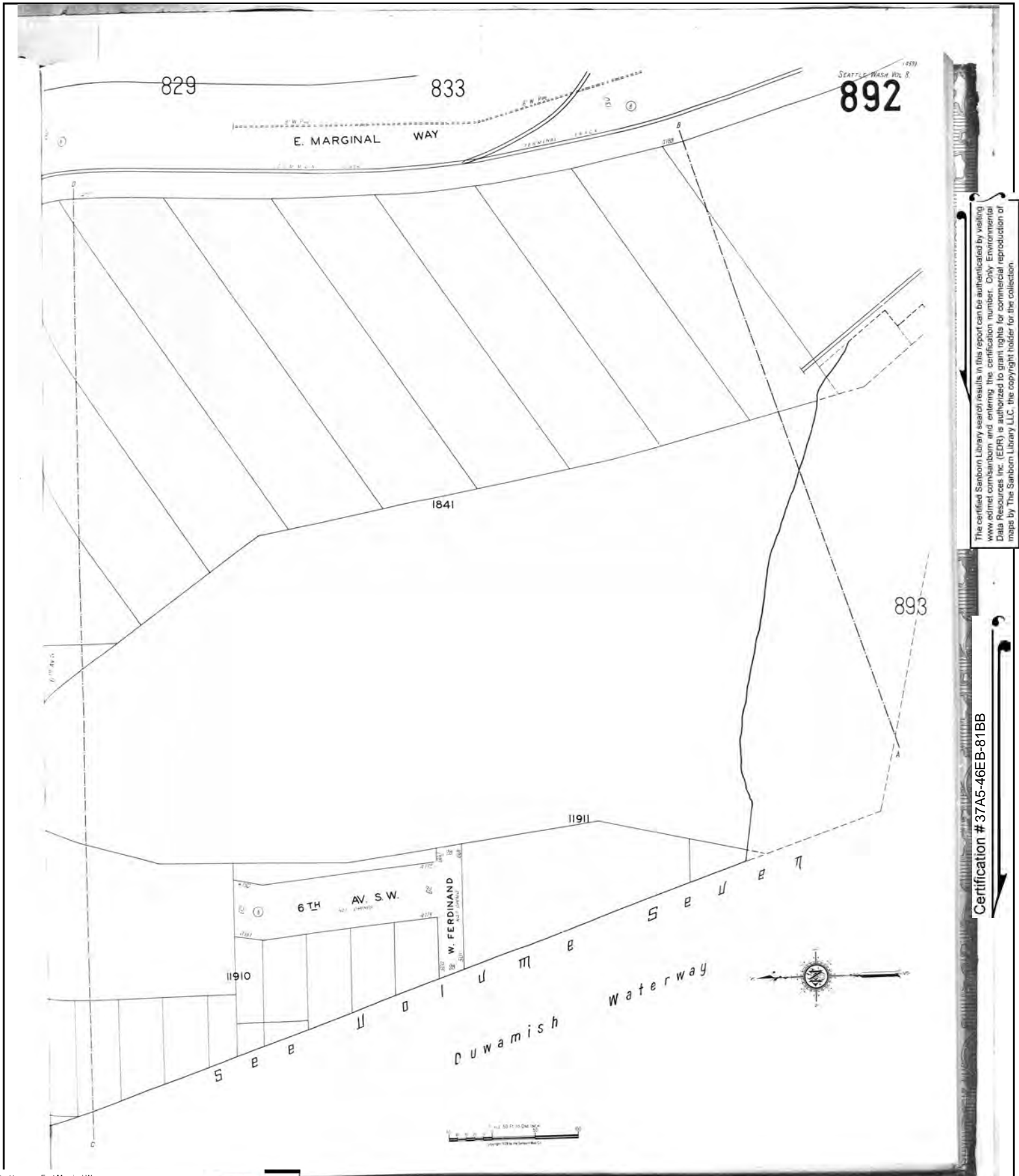
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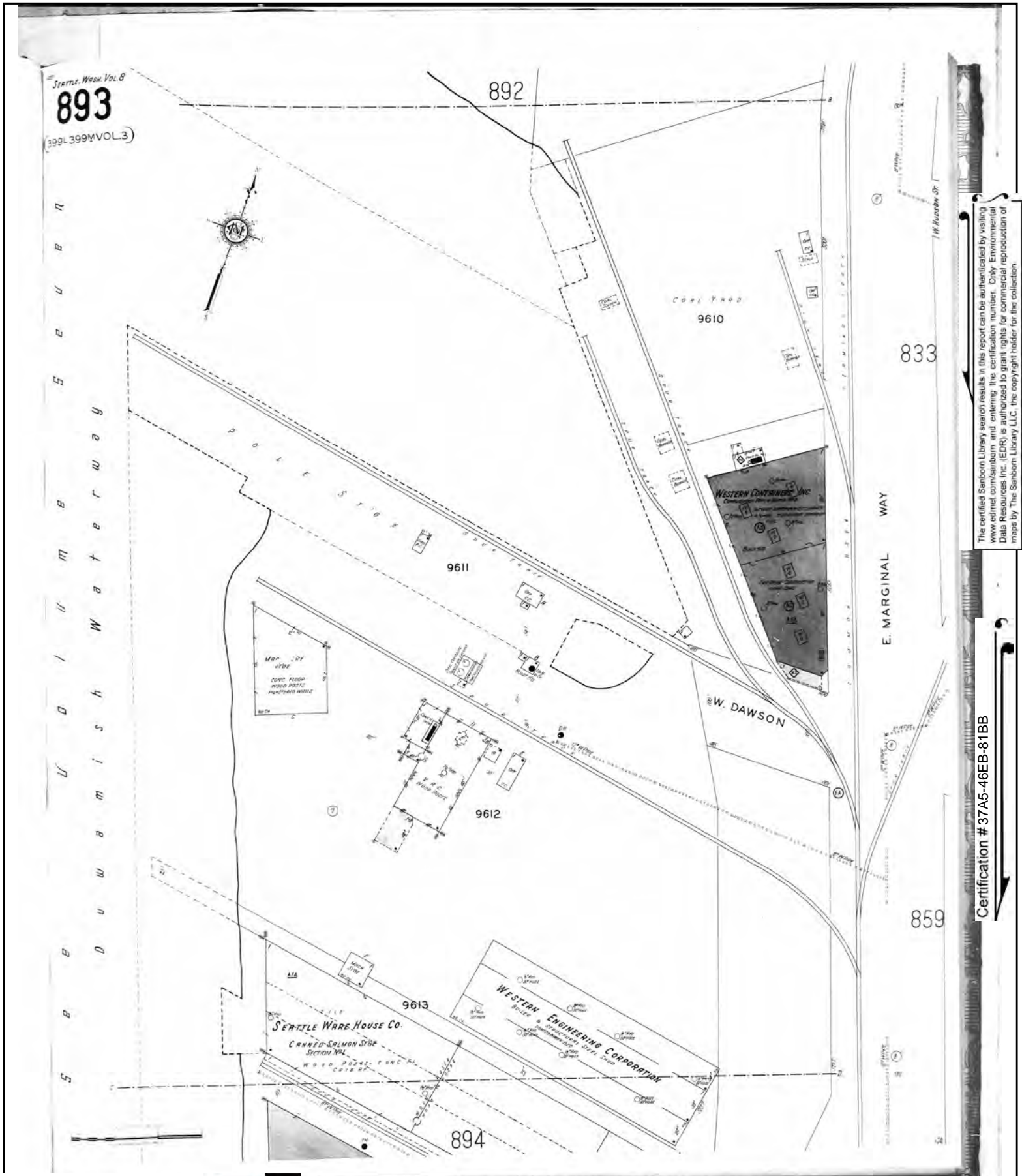




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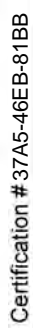


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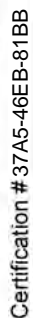
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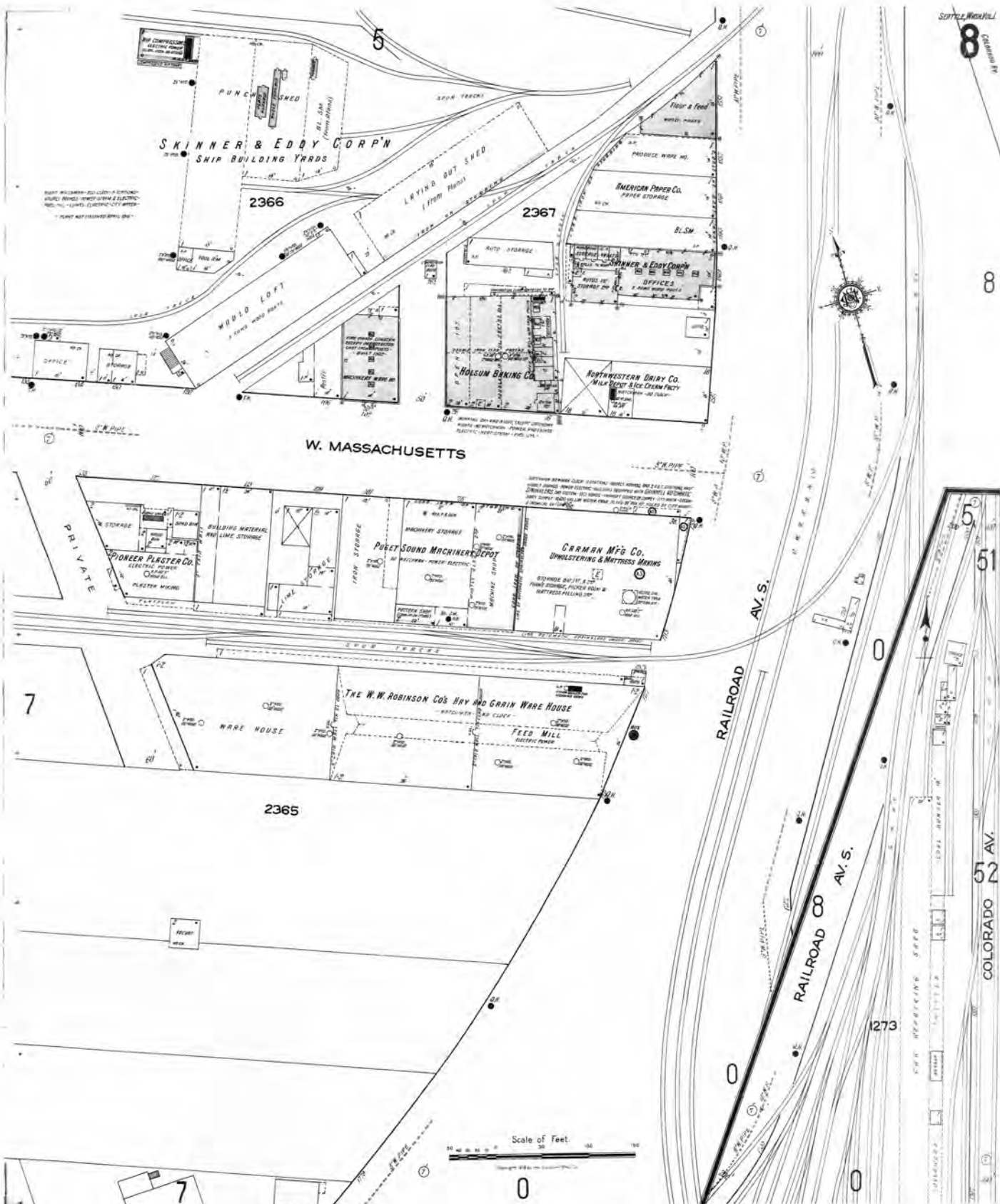


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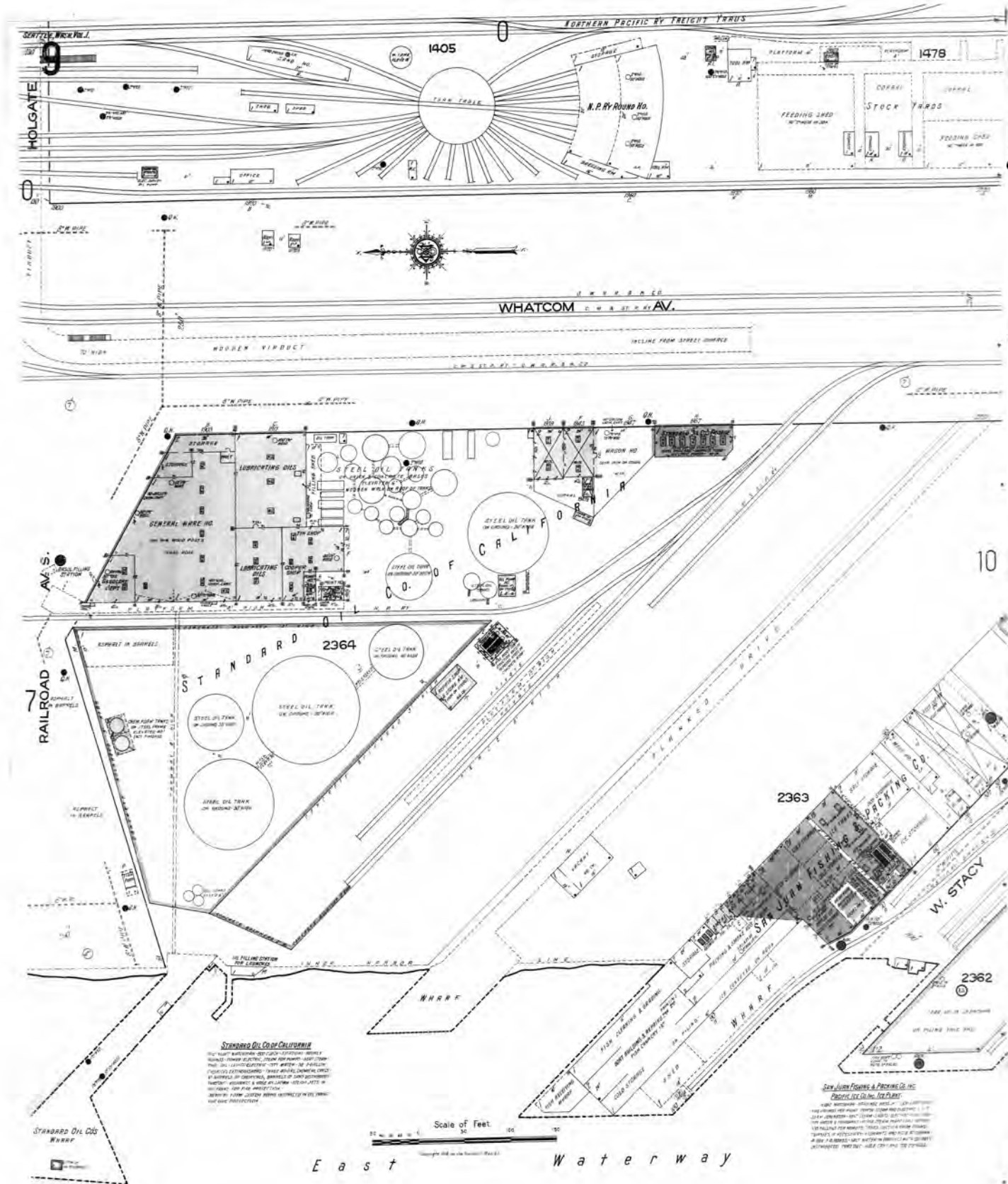




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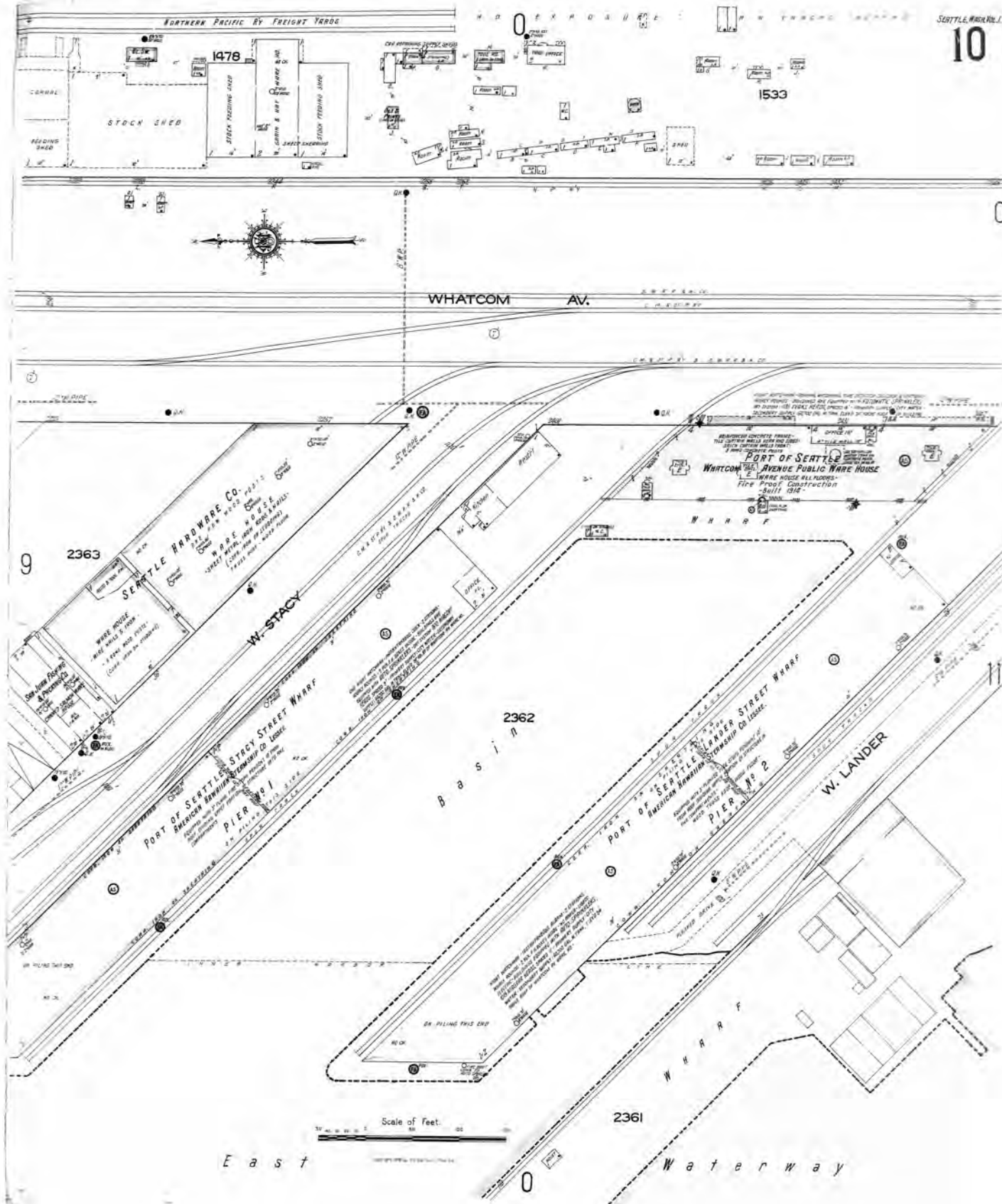


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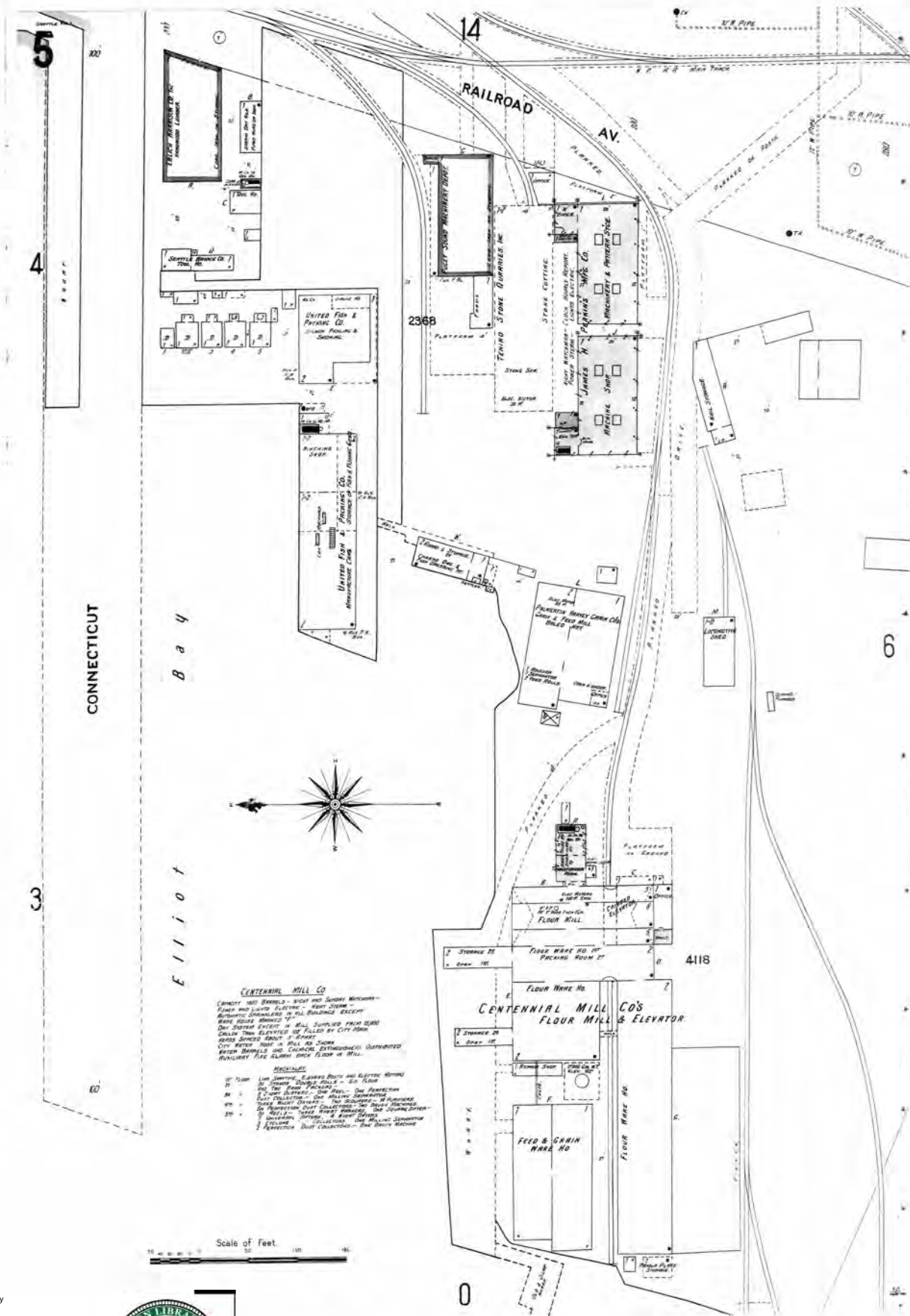
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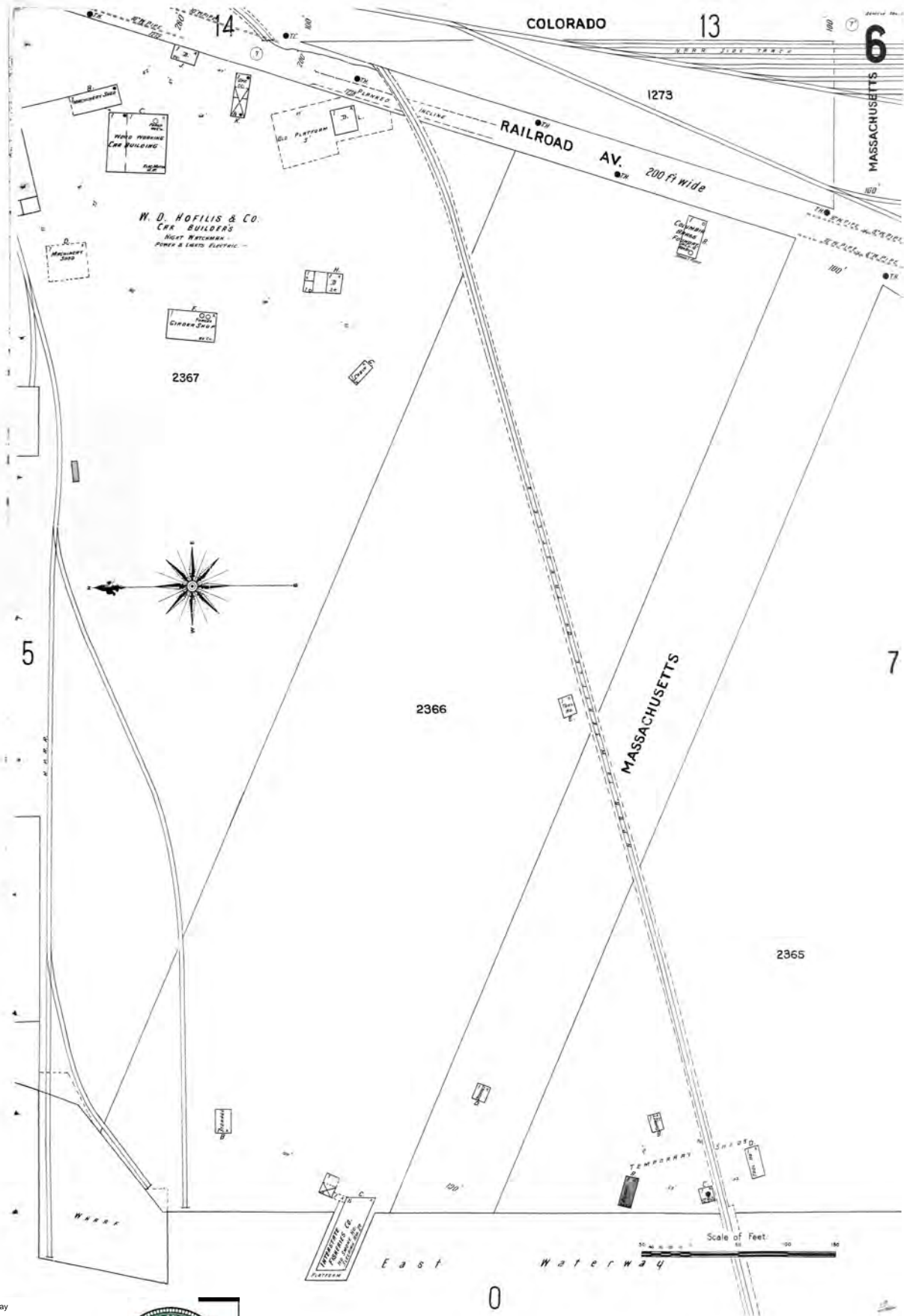




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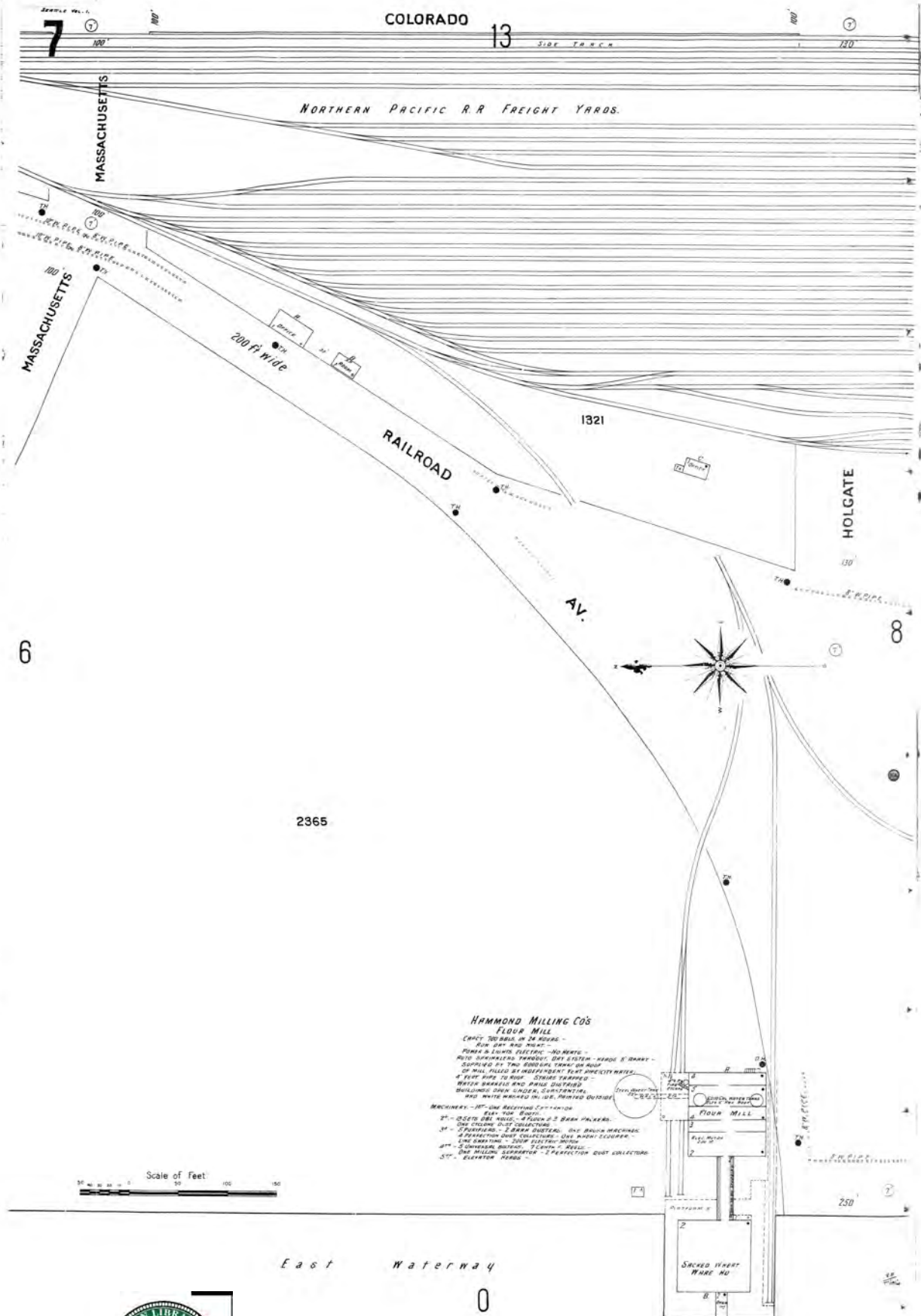


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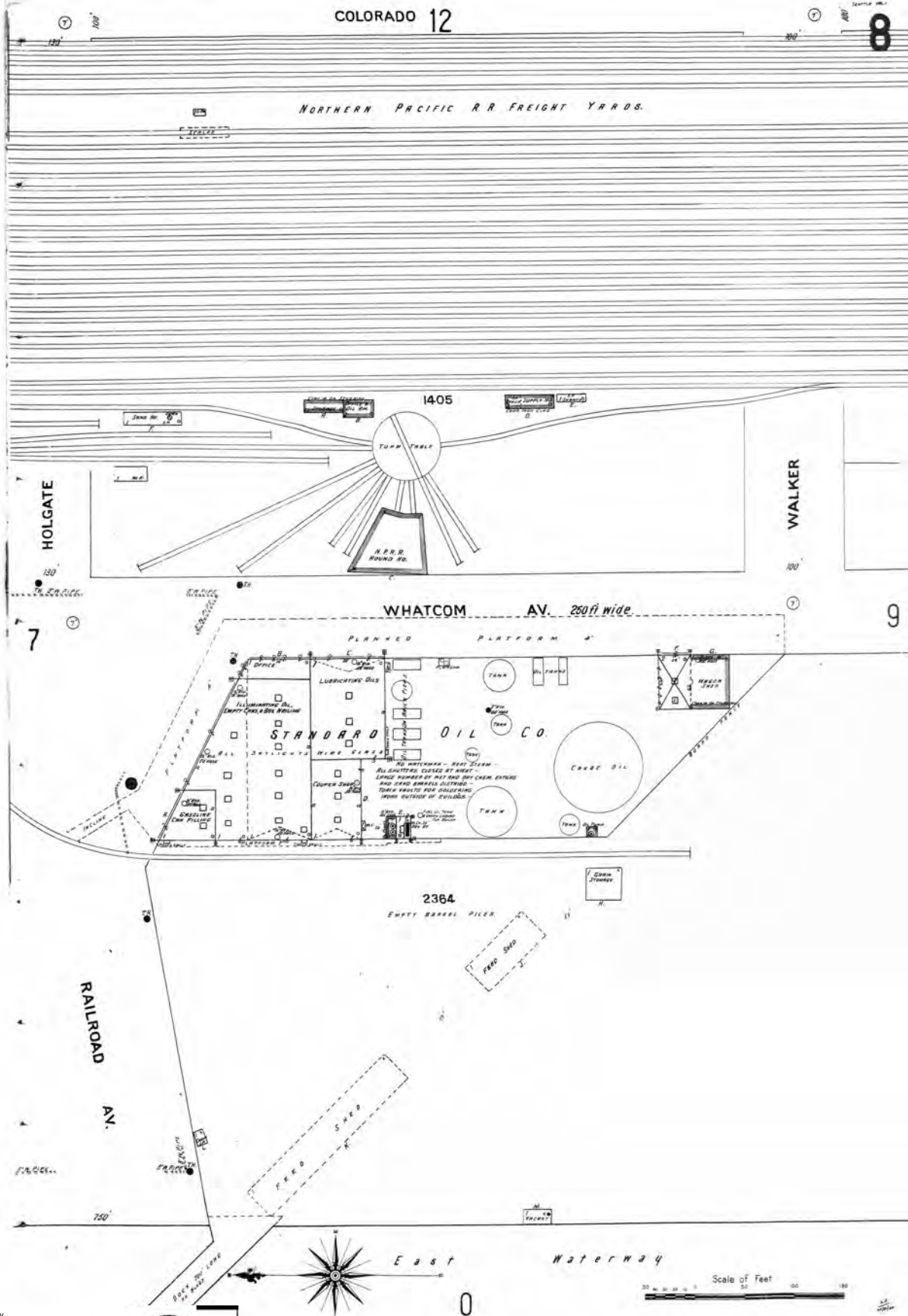




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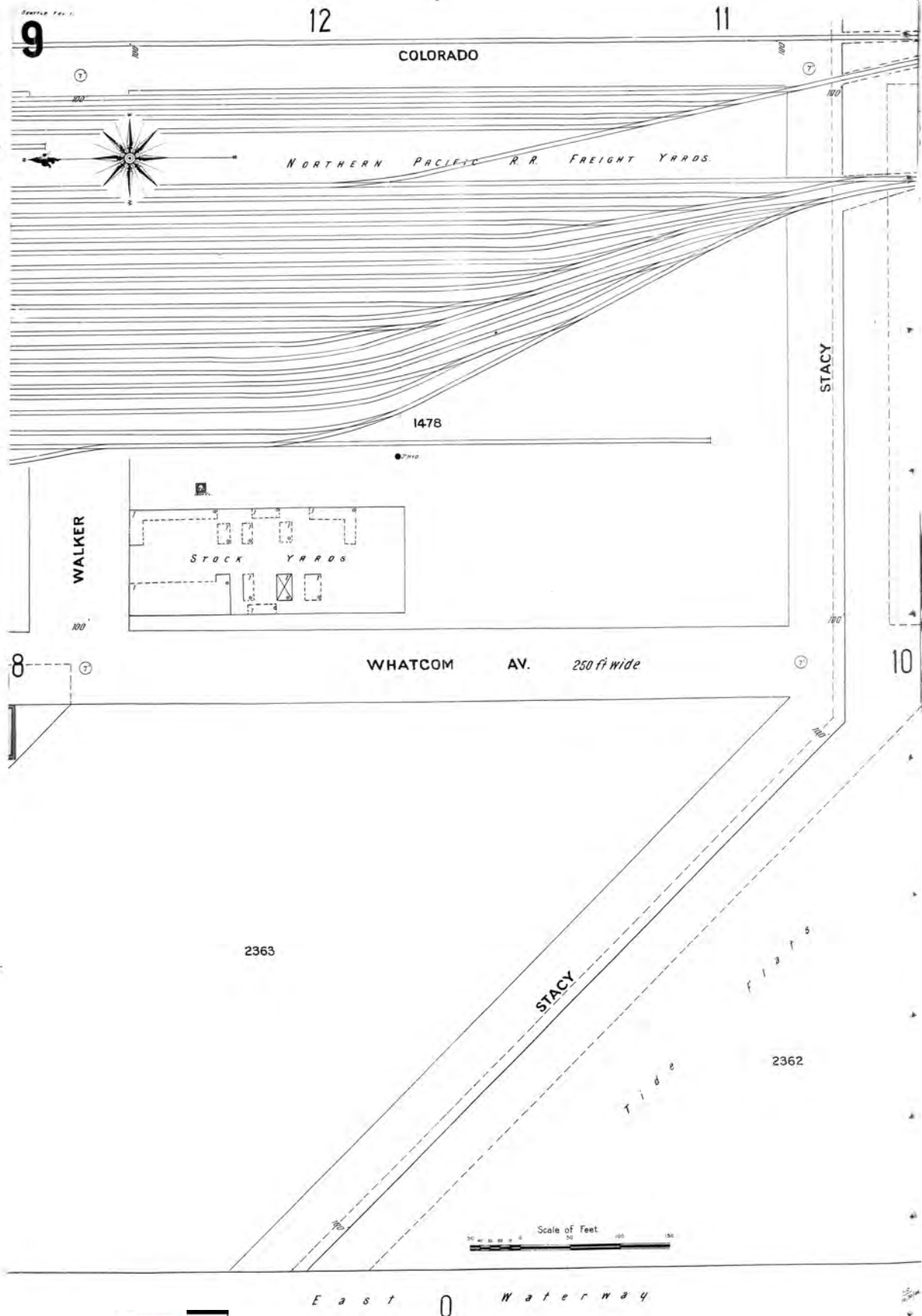


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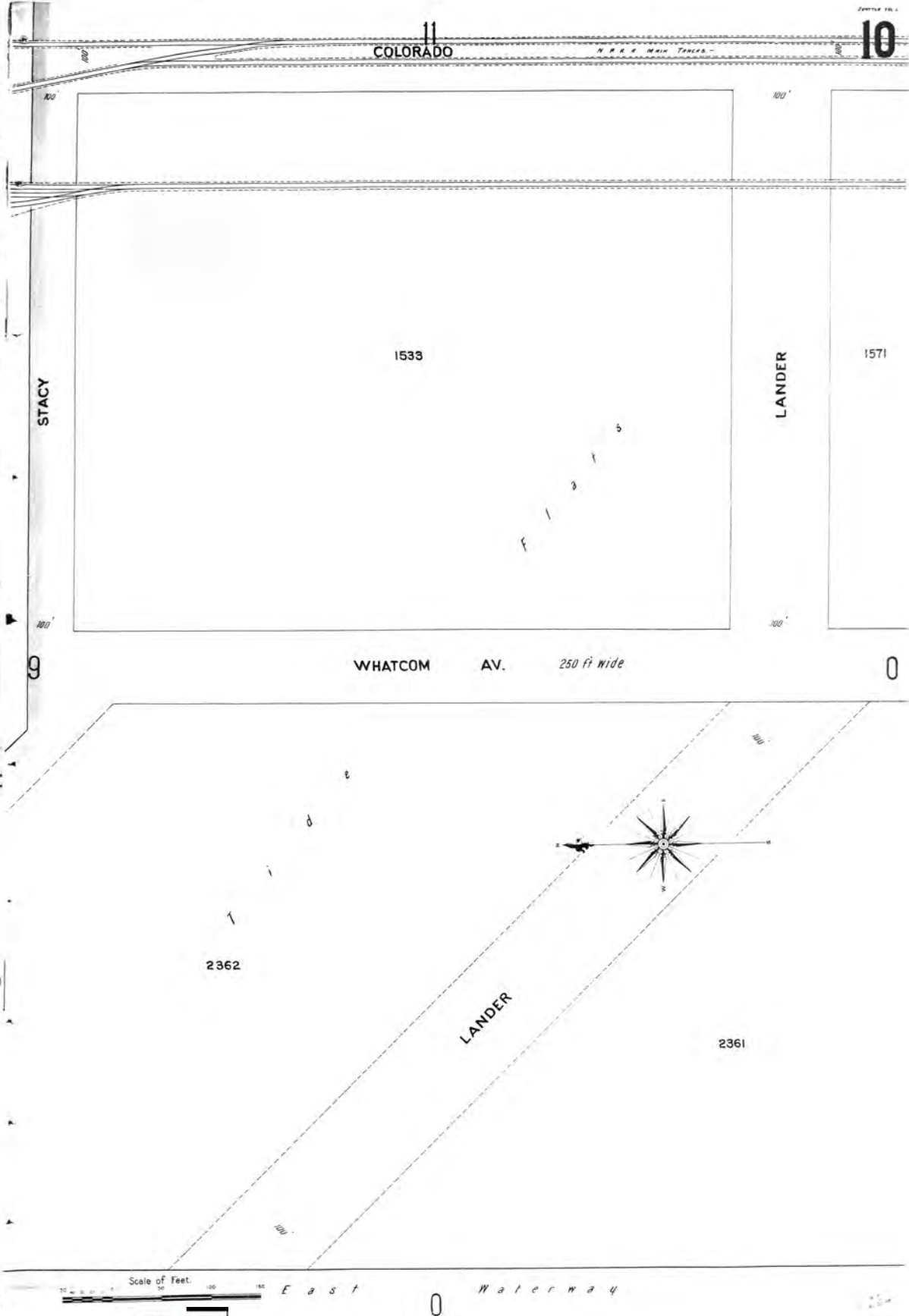




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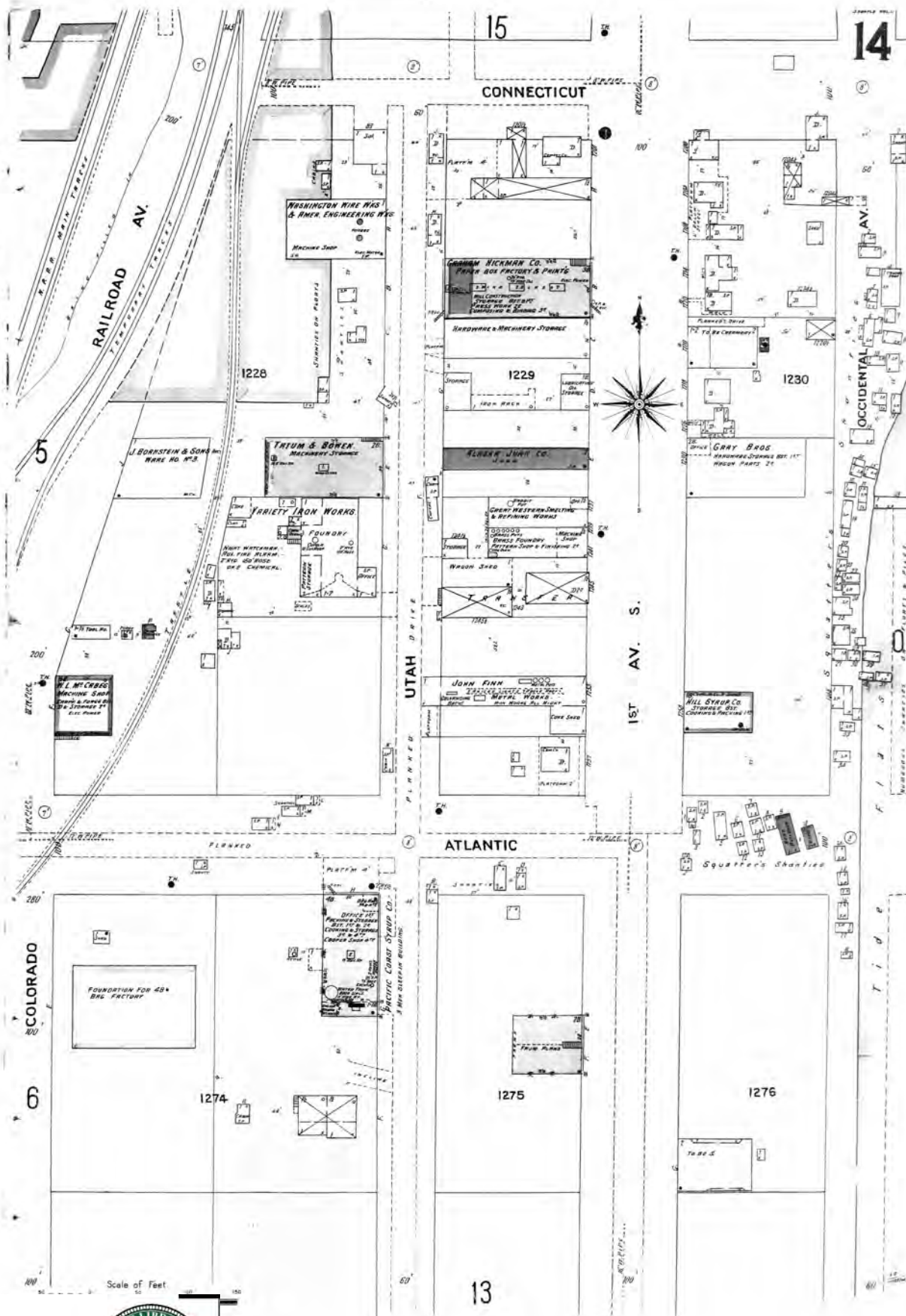


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**APPENDIX E**  
**REVERSE CITY DIRECTORIES**



**East Marginal Way South**

Alaskan Way South and 1st Avenue South  
Seattle, WA 98134

Inquiry Number: 5186525.1  
February 14, 2018

## The EDR-City Directory Image Report

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### **SECTION**

**Executive Summary**

**Findings**

**City Directory Images**

***Thank you for your business.***

Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

### RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by

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### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2014	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2010	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2005	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2000	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1995	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1992	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1987	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
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1976	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1971	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
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1944	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory
1940	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory

## EXECUTIVE SUMMARY

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
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## FINDINGS

### TARGET PROPERTY STREET

Alaskan Way South and 1st Avenue South  
Seattle, WA 98134

No Addresses Found

## FINDINGS

### CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
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### ALASKAN WAY S

2014	pg. A4	EDR Digital Archive
2010	pg. A10	EDR Digital Archive
2005	pg. A16	EDR Digital Archive
2000	pg. A21	EDR Digital Archive
1995	pg. A26	EDR Digital Archive
1992	pg. A31	EDR Digital Archive
1987	pg. A36	Polk's City Directory
1981	pg. A40	Polk's City Directory
1976	pg. A43	Polk's City Directory
1971	pg. A47	Polk's City Directory
1966	pg. A50	Polk's City Directory
1966	pg. A51	Polk's City Directory
1961	pg. A55	Polk's City Directory
1961	pg. A56	Polk's City Directory
1955	pg. A61	Polk's City Directory
1955	pg. A62	Polk's City Directory
1955	pg. A63	Polk's City Directory
1955	pg. A64	Polk's City Directory
1951	pg. A69	Polk's City Directory
1951	pg. A70	Polk's City Directory
1944	pg. A75	Polk's City Directory
1944	pg. A76	Polk's City Directory
1940	pg. A80	Polk's City Directory
1940	pg. A81	Polk's City Directory

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## FINDINGS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
<b><u>E MARGINAL WAY S</u></b>		
2014	pg. A5	EDR Digital Archive
2010	pg. A11	EDR Digital Archive
2005	pg. A17	EDR Digital Archive
2000	pg. A22	EDR Digital Archive
1995	pg. A27	EDR Digital Archive
1992	pg. A32	EDR Digital Archive
1987	pg. A37	Polk's City Directory
1981	pg. A41	Polk's City Directory
1976	pg. A44	Polk's City Directory
1971	pg. A48	Polk's City Directory
1966	pg. A52	Polk's City Directory
1961	pg. A57	Polk's City Directory
1961	pg. A58	Polk's City Directory
1955	pg. A65	Polk's City Directory
1955	pg. A66	Polk's City Directory
1951	pg. A71	Polk's City Directory
1951	pg. A72	Polk's City Directory
1944	pg. A77	Polk's City Directory
1940	pg. A82	Polk's City Directory

## **City Directory Images**



**ALASKAN WAY S 2014**

1501	OCCUPANT UNKNOWN,
1515	OCCUPANT UNKNOWN,
1517	OCCUPANT UNKNOWN,
1519	ALPA TECHNOLOGIES AND SVCS INC
	COAST GUARD EXCHANGE SYSTEM
	COAST GUARD UNITED STATES
	GRACES HAIR DESIGN
	LEE TAE HO
	MALUEG KELLY K OD
	MSST SEATTLE
	PACIFIC NW CHIEF WARRANT & WAR
	SEATTLE CHAPTER CPOA
	TSR INC
	USCOAST GUARD ESU
1531	OCCUPANT UNKNOWN,
1541	OCCUPANT UNKNOWN,
1555	OCCUPANT UNKNOWN,
1561	CORPORATION CATHOLIC ARCHBSHP
1591	OCCUPANT UNKNOWN,
1727	SEACON LLC
1729	MASTERS MATES AND PILOTS MARTI
	PACIFIC MARITIME INSTITUTE

**E MARGINAL WAY S 2014**

2431	SSA TERMINALS (SEATTLE) LLC
2715	AMERIFRESH INC
3225	CHINA SHIPPING NORTH AMERICA
3440	CHARITABLE SERVICES FOUNDATION
	INTERNATIONAL LONGSHOREMENS B
	INTERNTIONAL LONGSHORE WHSE UN
3600	ALKI FOUNDRY
	ERBECK BIKES
	LAUREN OSMOLSKI
	METALWORKS & DESIGN STUDIO
	MILITIA LIMITED
	TWISTED MONK
3623	AIROPATH INC
	EVERGREEN POWER SYSTEMS INC
	EVERGREEN TECHNOLOGIES INC
	QUAD-MAC LLC
	RELUMIN INC
3626	LINDMARK MACHINE WORKS INC
3628	GUADALAJARA WHOLESALE CORP
3651	DW DESIGNS
	INK WELL
3655	SAFARI EXPORTS
3660	I S S C INC
3670	DEPOT FIVE ZERO SIX RESTAURANT
	RD AMERICA INC
	RESTAURANT DEPOT LLC
3693	CLEANING CONSULTANTS SERVICES
	LAKE MERIDIAN SHORES LLC
3801	ASH GROVE CEMENT COMPANY
4050	ARCTIC COMMERCIAL RFRGN INC
4250	WHOLE FOODS MARKET INC
4401	RECOLOGY
4450	AIRBORN EXPRESS (DHL)
	DHL EXPRESS (USA) INC
	DHL-BFI-DSE
4600	CASCADE MACHINERY & ELC INC
4634	A CARGO INC
	ALASKA NTIV INDS COOP ASSN INC
	BUCKLAND NATIVE STORE BILL KUH
	FORTUNA LEDGE CO-OP STORE
	GRAND CENTRAL BAKERY INC
	INTERNATIONAL BROKERAGE INC
	MARKEY MACHINERY CO INC
	NO JUNK INC
	SECURETRANS LLC
	SODEXO INC
	TAPRAQ FUEL CO
	WESTSERVE INC
4636	ARENA SPORTS INC
	BUREAU VERITAS NORTH AMER INC



**E MARGINAL WAY S****2014****(Cont'd)**

4636	ENGINEERS U S ARMY CORPS OF GROWTH CAPITAL PARTNERS LLC IMS OFFICE PARTS PARTY STAFF TITAN OUTDOOR LLC TORIX HOLDINGS LLC
4660	BLACK LABEL SPIRITS LLC CLARK BLUMENSTN PHOTO CREDITS VICTOR GRANITE & MARBLE WE INCRPRATED ISGOOD WOODWORKS
4735	AIR FORCE US DEPT OF ARMY UNITED STATES DEPT OF AT SOLUTIONS EMERGNCY RSPONSE TRAINING INST ENGINEERS U S ARMY CORPS OF FAIRLANE CAFE GOVERNMENT PRINTING OFFICE US MARINE CORPS UNITED STATES NATIONAL DEF TRNSPORATION ASSN NEW WEST EDITIONS NORTHWEST CENTER PUBLIC AFFAIRS MAR CORPS OFF US ARMY RECRUITING VETERANS HEALTH ADMINISTRATION
5000	DARE DEVIL LLC HUDSON SEATTLE HAUNT LLC SEATTLE RADIATOR WORKS

**ALASKAN WAY S 2010**

1501	OCCUPANT UNKNOWN,
1515	OCCUPANT UNKNOWN,
1517	OCCUPANT UNKNOWN,
1519	ALPA TECHNOLOGIES AND SVCS INC
	COAST GUARD EXCHANGE SYSTEM
	COAST GUARD UNITED STATES
	COMMANDING OFFICER CG ISC SEAT
	GRACES HAIR DESIGN
	REVEILLE ESPRESSO
	SEATTLE CHAPTER CPOA
	TSR INC
	USCOAST GUARD ESU
1531	OCCUPANT UNKNOWN,
1555	OCCUPANT UNKNOWN,
1561	CORPORATION CATHOLIC ARCHBSHP
1591	OCCUPANT UNKNOWN,
1727	SEACON LLC
	TRANSAS MARINE
1729	MASTERS MATES AND PILOTS MARTI
	PACIFIC MARITIME INSTITUTE



**E MARGINAL WAY S 2010**

870 NICHOLSON MACHINE AND TECH CO  
 2715 AMERIFRESH INC  
 3440 INTERNATIONAL LONGSHOREMENS B  
 INTERNATIONAL LONGSHORE WHSE UN  
 SEA JOIN PORT LABOR  
 3600 ALKI FOUNDRY  
 CRISTLLI MRIA CSTM ORNAMENTALS  
 DECORATIVE METAL ARTS  
 DESIGN SCALES LLC  
 ERBECK BIKES  
 INTENT LLC  
 METALWORKS & DESIGN STUDIO  
 TWISTED MONK  
 3623 AIROPATH INC  
 EVERGREEN POWER SYSTEMS INC  
 EVERGREEN TECHNOLOGIES INC  
 PRAXAIR INC  
 3626 LINDMARK MACHINE WORKS INC  
 3628 AUSTRALIA UNLIMITED  
 3633 MCDONALDS BOOK EXCH & RECYCL  
 3651 BEAN MICHAEL  
 MAYER INDUSTRIES  
 3653 SEATTLE HOUSEWRIGHTS  
 3660 ISSC INC  
 3670 DEPOT FIVE ZERO SIX RESTAURANT  
 NORTHERN INDUSTRIAL INC  
 RD AMERICA INC  
 RESTAURANT DEPOT 506 RC  
 3693 CLEANING CONSULTANTS SERVICES  
 ELMWOOD MHC  
 LAKE MERIDIAN SHORES LLC  
 3801 ASH GROVE CEMENT COMPANY  
 4050 ARCTIC COMMERCIAL RFRGN INC  
 4090 SABABA GROUP  
 4140 A&B PARTNERS 2 LP PORTSID  
 4250 WHOLE FOODS MARKET INC  
 4301 GRIFFIN ENVELOPE INC  
 4401 LIQUOR CONTROL BD WASH STATE  
 4450 DHL EXPRESS (USA) INC  
 DHL-BFI-DSE  
 4600 CASCADE MACHINERY & ELC INC  
 4634 A CARGO INC  
 ALASKA NTIV INDS COOP ASSN INC  
 BUCKLAND NATIVE STORE BILL KUH  
 FORTUNA LEDGE CO-OP STORE  
 GRAND CENTRAL BAKERY INC  
 INTERNATIONAL BROKERAGE INC  
 INTERNET CREDIT NETWORK INC  
 NATIVE VLG ELIM ELIM NATIV STR  
 SECURETRANS LLC

**E MARGINAL WAY S****2010****(Cont'd)**

4636	BASROCK VILLAGE GREEN CA BRADY, JERI BUREAU VERITAS NORTH AMER INC CLAYTON ENVIRONMENTAL GROUP INTEGRATED BIOMETRIC TECH OFFICE PARTS TITAN OUTDOOR LLC
4660	CHARCUTERIE OCEAN BEAUTY SEAFOODS LLC WE INCRPRATED ISGOOD WOODWORKS
4735	833D US ARMY TRANS BN AIR FORCE US DEPT OF ARMY UNITED STATES DEPT OF AT SOLUTIONS BALSHOR S CB MUSIC CM SQUARED DK CONSTRUCTION INC EMERGNCY RSPONSE TRAINING INST ENGINEERS U S ARMY CORPS OF FAIRLANE CAFE GLOBAL SOURCES INC GOVERNMENT PRINTING OFFICE US ILLUME INCORPORATED MARINE CORPS UNITED STATES MEDIUM PORT COMMAND NATIONAL DEFENSE TRANSPORATION NEW WEST EDITIONS NORTHWEST CENTER PRODUCTION SUPPORT SERVICES PUBLIC AFFAIRS MAR CORPS OFF SCREAMER INC SEATTLE REGIONAL PRINTING U S GOVT GSA MA VANGO SERVICES
5000	HUDSON



**ALASKAN WAY S 2005**

1519 ALPHA TECHNOLOGIES AND SERVICES  
COAST GUARD EXCHANGE SYSTEM  
COAST GUARD UNITED STATES  
CURRENT ENTERPRISES  
SEATTLE CHAPTER CPOA  
1561 CORPORATION CATHOLIC ARCHBSHP  
1727 TRANSAS USA INC  
1729 MASTERS MATES AND PILOTS MARTI  
PACIFIC MARITIME INSTITUTE

**E MARGINAL WAY S 2005**

2431	OOSTERDAM
2715	AMERIFRESH INC
3225	A & B PROPERTIES INC
	MATSON NAVIGATION COMPANY
3407	SEACREST FOODS INC
3440	INTERNATIONAL LONGSHOREMENS B
	INTERNTIONAL LONGSHORE WHSE UN
3455	PETER PAN SEAFOODS INC
3600	ALKI FOUNDRY
	COPERNICAN DESIGN BUILD
	CRISTLLI MRIA CSTM ORNAMENTALS
	METALWORKS & DESIGN STUDIO
	OLEARY KEVIN
	PERHACS, BRANDON
	RUBICON DESIGN
	TBXI INVESTMENT LLC
	TWISTED MONK
3623	PRAXAIR INC
3626	LINDMARK MACHINE WORKS INC
3628	JALAU KLAVANO PROPERTIES LLC
	OCCUPANT UNKNOWN,
	SHEEPSKIN STATION
	WARDEN BATTS & CO INC
3633	MCDONALDS BOOK EXCH & RECYCL
3651	BEAN MICHAEL
	INK WELL PRINTERS INC
	STONE CIRCLE
3660	ISSC INC
3670	CASCADE HARDWOODS INC
	NICHOLSON INDUSTRIES INC
	NICHOLSON MANUFACTURING CO
3693	CLEANING CONSULTANTS SERVICES
	ELMWOOD MHC
3801	AH VENDING
	ASH GROVE CEMENT COMPANY
4140	HASBRO INC
4401	HOOD RIVER DISTILLERS INC
4501	MAJOR ELECTRIC
4600	CASCADE MACHINERY & ELECTRIC
4634	BUCKLAND NATIVE STORE BILL KUH
	DURHAM SCHOOL SERVICES LP
	GARRITY JAMES MT DO
	INDEPENDENT EMPLOYMENT SE
	INTERNATIONAL BROKERAGE INC
	MARKEY MACHINERY CO INC
	SECURETRANS LLC
	TITAN OUTDOOR LLC
4636	CLAYTON GROUP SERVICES INC
	RIALTO INC
	RIALTO INTERNATIONAL INC



**E MARGINAL WAY S****2005****(Cont'd)**

4660	COMMUNICRAFT PRINTING INC DAVIES, PAUL FARRAR, CHRIS S FOUR SEASONS PRODUCE GAMETIME PARADISE GOURMET FOODS ROBERTSON, MICHAEL D TRADE FILMS VICTOR GRANITE MARBLE TILE WE INCRPRATED ISGOOD WOODWORKS
4725	DK CONSTRUCTION INC
4735	ARI-B DISTRIBUTERS ARMY UNITED STATES DEPT OF BOOK FAIR INC EMERGNCY RSPONSE TRAINING INST ENGINEERS U S ARMY CORPS OF ENVIROMECH INC FAIRLANE CAFE FAJANS MICHAEL GLOBAL SOURCES INC GOVERNMENT PRINTING OFFICE US ILLUME INCORPORATED NORTHWEST CENTER FOR RETARDED PACIFICA MARINE INC PUBLIC AFFAIRS MAR CORPS OFF SEATTLE REGIONAL PRINTING SEATTLE SUPPORT CENTER VAN GO PLUMBING HEATING & AIR VERITY CREDIT UNION
5000	SILVER KING INC

**ALASKAN WAY S 2000**

1519	COAST GUARD MUSEUM OF THE NW
	COAST GUARD UNITED STATES
	CURRENT ENTERPRISES
	INTERNAL REVENUE SERVICE
1555	ABBOTT WEST INC
	RICHARD THOMPSON
1561	CORPORATION CATHLC ARCHBSP INC
1733	GATX TANK STRG TRMNLS



**E MARGINAL WAY S 2000**

2431	MARINE TERMINALS CORPORATION
3225	CABRAL, EUGENIO M
	MATSON NAVIGATION COMPANY
	TIDEWORKS TECHNOLOGY
3407	PACIFIC ALASKA SEAFOODS INC
	PACIFIC SALMON CO INC
	RAINIER ICE & COLD STORAGE
	SEACREST FOODS INC
	TATOOSH SEAFOOD LLC
3440	ILBA ILWU LOC 19
	INTERNATIONAL LNGSHRMNS BNVLNT
	INTERNATIONAL LONGSHOREMEN
3455	PETER PAN SEAFOODS INC
3600	PUGET MECHANICAL INC
3623	PRAXAIR DISTRIBUTION INC
3626	LINDMARK MACHINE WORKS INC
3628	ELLIOTT BAY LABORATORY SVCS
3633	ANDREWS MACHINERY OF WASH
3651	BEAN MICHAEL
	COX FRED G INVSTGTRS
	INK WELL PRINTERS INC
3660	I S S C INC
3670	MID COLUMBIA ENGINEERING INC
	NICHOLSON INDUSTRIES INC
	NICHOLSON MANUFACTURING CO
3693	CLEANING CONSULTANT SERVICES
3801	ASH GROVE CEMENT COMPANY
4140	HASBRO INC
4600	CASCADE MACHINERY & ELECTRIC
4634	ALASKA NATIVE INDS COOP ASSN
	FRONTIER-KEMPER CONSTRUCTORS
	GRAND CENTRAL BAKERY INC
	INDEPENDENT EMPLOYMENT SE
	MAN LOVE TRAVEL
	PAIN NET INC
	RIFFE, TRACY D
	SUPPLY ROOM INC
4636	ARENA SPORTS INC
	CLAYTON GROUP SERVICES INC
	D H L AIRWAYS INC
	GOLD, A M
	NORTHWEST AGGREGATES CO
	RIALTO INC
	RIALTO INTERNATIONAL INC
4660	BLUNT, JOHN
	CHANG, HUGO
	EUROPEAN KITCHEN & BATH
	FOUR SEASONS PRODUCE
	IS GOOD WOODWORKS INC
	MARINE SERVICE INTL INC

**E MARGINAL WAY S****2000****(Cont'd)**

4660	STONE FLY DESIGNS
4735	ARMY UNITED STATES DEPT OF CORP OF ENGINEERS ENGINEERS U S ARMY CORPS OF FAIRLANE CAFE GOVERNMENT PRINTING OFFICE US KB MECHANICAL INC NORTHWEST CTR FOR THE RTARDED NW FEDERAL CREDIT UNION PACIFICA MARINE INC RAIN CITY DISPLAY SEATTLE DIST LIBRARY US ARMY SEATTLE SUPPORT CENTER TALGO INC U S ARMY CORPS OF ENGINEERS
5000	TOTEM EQUIPMENT COMPANY INC



**ALASKAN WAY S 1995**

1201	STEVEDORING SERVICES OF AMER
1519	COAST GUARD EXCHANGE SERV
	COLLINS, PAT
	COMMANDE USCG GROUP SEATTLE
	CURLEY, THOMAS J III
	FLETCHER, LARRY
	INTERNAL REVENUE SERVICE
	LAMBERT, RICKY
	PERNIOLA, FRANK
	STONE, MICHAEL
	UNITED STATES COAST GUARD
1555	ABBOTT WEST INC
	DUNLEAVY SALES CO
	RICHARD THOMPSON
1561	CORPORATION CATHLC ARCHBSP INC
1733	GATX TANK STRG TRMNLS

**E MARGINAL WAY S 1995**

2431 MARINE TERMINALS CORP NV CORP  
 TRANS PACIFIC CONTAINER SVC  
 3225 MATSON NAVIGATION COMPANY  
 3255 MATSON NAVIGATION COMPANY  
 3407 INTEROCEAN SEAFOODS CO  
 PACIFIC ALASKA SEAFOODS INC  
 PACIFIC SALMON CO INC  
 3419 CUSTOM CRATING CO INC  
 3420 BUFFALO INDUSTRIES INC  
 3440 I LWU-PMA BENEFIT PLANS  
 3455 PETER PAN SEAFOODS INC  
 YOSHIDA, YOSHIO  
 3600 PUGET MECHANICAL INC  
 STAINLESS PIPING SYSTEMS INC  
 3623 GENERAL WELDING SUPPLY CO INC  
 3628 CUSTOM MARINE INDUSTRIES INC  
 ELLIOTT BAY LABORATORY SVCS  
 HAGENSBORG FOODS USA INC  
 UNIMEX CORPORATION  
 3633 ANDREWS MACHINERY OF WASH  
 3651 COX FRED G INVSTGTRS  
 COX, FRED G  
 INKWELL PRINTERS INC  
 3660 I S S C INC  
 3670 NICHOLSON INDUSTRIES INC  
 NICHOLSON MANUFACTURING CO  
 3693 CLEANING BUSINESS MAGAZINE  
 OCCUPANT UNKNOWNN  
 3801 ASH GROVE CEMENT COMPANY  
 4140 HASBRO INC  
 PORT OF SEATTLE  
 4301 GRIFFIN ENVELOPE INC  
 4600 CASCADE MACHINERY & ELECTRIC  
 4634 ALASKA NATIVE INDS COOP ASSN  
 GRAND CENTRAL BAKERY INC  
 OCCUPATIONAL MED CORP OF AMER  
 SOUTH CENTER GROCERY & DELI  
 WORK FITNESS INSTITUTE  
 4636 DHL AIRWAYS INC  
 HAZCON INC  
 RIALTO INTERNATIONAL INC  
 SATELLITE PROGRAM  
 4660 OCEAN BEAUTY SEAFOODS INC  
 4735 BUREAU OF INDIAN AFFAIRS  
 DEPARTMENT OF ARMY  
 FOGGIEST NOTION CAFETERIA  
 MILITARY TRAFFIC MANAGEMENT  
 NORTHWEST CTR FOR THE RTARDED  
 TALL CEDAR CHILD CARE CENTER  
 U S GOVERNMENT PRINTING OFF

**E MARGINAL WAY S****1995****(Cont'd)**

4735	UNITE STATES DEPARTMENT INTR
	UNITED STATES DEPARTMENT DEF
5000	TOTEM EQUIPMENT COMPANY INC



**ALASKAN WAY S 1992**

1201	STEVEDORING SERVICES OF AMER
1519	DOCKSIDE BARBER SH
	INTERNAL REVENUE SERVICE
	U S DEPARTMENT TRANSPORTATION
1555	ABBOTT WEST INC
	DUNLEAVY SALES CO
	RICHARD THOMPSON
	UNITED STATES DEPT COMMERCE
1561	CORPORATION CATHLC ARCHBSP INC
1701	WCT TRADING COMPANY
1727	FLINT INK CORPORATION
1733	GATX TANK STRG TRMNLS
	IMPERIAL AUTO SALES
	IMPERIAL PETROLEUM CORPORATION

**E MARGINAL WAY S 1992**

2431	MARINE TERMINALS CORP NV CORP TRANS PACIFIC CONTAINER SVC
2715	PANTAGES WORLD TRAVEL SEATTLE SEAMENS CENTER STEVEDORING SERVICES OF AMER TRADEWELL STORE 40
3225	MATSON NAVIGATION COMPANY
3407	INTEROCEAN SEAFOODS CO PACIFIC SALMON CO INC
3440	I LWU-PMA BENEFIT PLANS INTERNATIONAL LONG SHORE MENS
3455	SEABLENDS FOOD COMPANY
3616	SIGNAL EQUIPMENT INC
3623	GENERAL WELDING SUPPLY CO INC
3628	AUSTRALIA UNLIMITED INC CUSTOM MARINE INDUSTRIES INC HAGENSBORG FOODS USA INC HARRISON TRADING CO MS FREIGHT DISTRIBUTION INC
3633	ANDREWS MACHINERY OF WASH
3651	ASSURANCE HOME INSPECTIONS COX FRED G INVSTGTRS COX, FRED G INKWELL PRINTERS INC NORTHWEST FLOOR DESIGN INC VIEWPOINT SALES & MARKETING
3660	I S S C INC
3670	NICHOLSON INDUSTRIES INC NICHOLSON MANUFACTURING CO
3801	ASH GROVE CEMENT COMPANY OREGON PORTLAND CEMENT
4140	HASBRO INC PORT OF SEATTLE
4301	GRIFFIN ENVELOPE INC
4401	WASHINGTON STATE OF
4600	CASCADE MACHINERY & ELECTRIC
4634	ALASKA NATIVE INDS COOP ASSN ANACOMP INC OCCUPATIONAL MED CORP OF AMER SOUTH CENTER GROCERY & DELI WORK FITNESS INSTITUTE
4636	ANACOMP INC CALIFORNIA HUMAN DEV CORP DHL AIRWAYS INC HAZCON INC SATELLITE PROGRAM SEATTLE KING CNTY PIC
4660	WASHINGTON FISH & OYSTER CO
4735	BUREAU OF INDIAN AFFAIRS CORPS OF ENGINEERS

**E MARGINAL WAY S****1992****(Cont'd)**

4735	MILITARY TRAFFIC MANAGEMENT NORTHWEST CTR FOR THE RTARDED SO CAFETERIA SEATTLE WA TALL CEDAR CHILD CARE CENTER U S DEPT HEALTH AND HUMAN SVCS U S GOVERNMENT PRINTING OFF UNITE STATES DEPARTMENT INTR UNITED STATES DEPARTMENT DEF
5000	TOTEM EQUIPMENT COMPANY INC



## ALASKAN WAY S 1987

	280 Pier 49 (For Occupants See Pier 49)	
	300 Pier 48 (For Occupants See Pier 48)	
	304 C & H Co importers 624-6763	
14	S MAIN ST BEGINS	
		957
	ZIP CODE 98134	
	ROYAL BROUGHAM WAY	
	INTERSECTS	
	400 Pier 47	
	(FOR OCCUPANTS SEE PIER 46)	
	500 Pier 46	
	(FOR OCCUPANTS SEE PIER 46)	
	563 Pier 43	
	608 Vacant	
	(FOR OCCUPANTS SEE PIER 46)	
	901 Pier 42	
	(FOR OCCUPANTS SEE PIER 46)	
	Pier 53	
	(FOR OCCUPANTS SEE PIER 46)	
	S DEARBORN ST INTERSECTS	
	KING ST INTERSECTS	
		958
	S ATLANTIC ST INTERSECTS	
45	1201 U S Coast Guard (Support Cntr)	
	(FOR OCCUPANTS SEE PIER 36)	
	(FOR OCCUPANTS SEE PIER 36)	
	(FOR OCCUPANTS SEE PIER 36)	
	U S Coast Guard (Museum)	
	(FOR OCCUPANTS SEE PIER 36)	
	1555 U S Coast Guard (Puget Sound	
	Vessel Traffic Serv)	
46	1519d U S Coast Guard (Marine Safety	
	Ofc)	
	1555 U S Genl Serv Admn (Pub Bldg	
	Serv Maintenance) 442-4091	
	U S Dept Of Commerce 442-4327	
	219 U S Customs Patrol 442-5684	
	Thompson Co mfg rep 623-9433	
	Dunleavy Co mfg rep 623-5968	
	Irs 442-1118	
47	Federal Warehouse Building	
	Senior Service Centers (fd coop	
	whse-meals on whls) 448-5760	
	201 Ocra Assoc ship asst & ocean	
	towing	
	1561 St Martin De Porres (cath shelter	
	for men)	
	S MASSACHUSETTS ST INTERSECTS	
48	1701 Belknap Industries 624-5035	
	1727 Cal-Ink press rm sup 622-3215	
	1733 Vacant	
	Gatx-Tank Storage Terminals oil	
49	stge 622-0920	
	E MARGINAL WAY S INTERSECTS	
		317
	ALASKAN WAY W -FROM PIER 88	
	ON ALASKAN WAY	
	ZIP CODE 98119	
	W JOHN ST INTERSECTS	
	W THOMAS ST INTERSECTS	
50	W HARRISON ST INTERSECTS	
	W MERCER ST INTERSECTS	

**E MARGINAL WAY S 1987**

3413 Bunting Robt L 524-9606  
 3419 Dickinson R Hugh © 524-1710  
 3431 Barker Grace W Mrs © 522-1245

**961**

**EAST MARGINAL WAY S -FROM  
 JUNC OF S HOLGATE ST AND S  
 ALASKAN WAY SOUTH**

ZIP CODE 98134  
 S WALKER INTERSECTS  
 1901 Vacant  
     Vacant  
     Pier Thirty Two  
 2247 Vacant  
 2431 Vacant  
 2451 Vacant  
 2715 Pier 28  
     Northern Commercial Co (Stge)  
     583-8700  
 2731 Pier Twenty-Eight (Addl Sp)  
 2901 Vacant  
 S STACY INTERSECTS  
 S LANDER INTERSECTS  
 S FOREST INTERSECTS

**963**

S HORTON INTERSECTS  
 S HINDS INTERSECTS  
 3400 Crowley Environmental Service Corp  
     pollution controls prod distr  
     682-4898  
 3407 Rainier Port Cold Storage cold stge  
     whse  
 3420 Terminal 106 Building 3 (Whse)  
 3425 A M-President Lines (Container  
     Stge & Mtce)  
     Booth Fisheries seafood 622-2942  
     Seacon (Terminal 25)  
     Port Of Seattle (Cold Stge)  
     Pacific Alaska Seafood Inc whol distr  
     & proc 587-0002  
 3433 Point Adams Packing Co whol  
     624-9533  
 3440 I L W U Local 19 Longshrmn-  
     Whsemn Union 623-7461  
     I L W U (Welfare Ofc) 682-5932  
     Waterfront Federal Credit Union  
     622-8415

**966**

S SPOKANE ST INTERSECTS  
 3600 Vacant  
 3623 General Welding Supply Co Inc  
     624-7033  
     Shumway Medical Supply Inc hosp  
     equip & sups 682-9567  
 3626 Lindmark Machine Works Inc mach  
     shop 624-0777  
 3628 Custom Marine Industries Inc import  
     export 343-5661  
     Australia Unlimited import 343-5545  
 3633 Andrews Machinery Of Washington  
     Inc contrs equip 624-7121  
     Contractors Rental Co heavy equip  
     624-7121  
 3651 Inkwell Printers Inc 623-1701  
     Cox Fred G priv investigator  
     622-1861  
     Ocein Express Consolidators Inc frt  
     forwarders 587-0114  
 3660 I S S C Inc 343-0700  
 3670 Nicholson Mfg Co machy dlrs  
     682-2752  
 DUWAMISH AV S INTERSECTS  
 3693 Sea-Mar Electronics Inc marine  
     equip & sup 622-6130  
 3801 Ash Grove Cement West Inc  
     623-5596  
 4100 Port Of Seattle (No 5)  
 S DAKOTA ST INTERSECTS  
 4120 Port Of Seattle (Whse)

## ALASKAN WAY S 1981

Studio Sixty Five And A Half photog  
682-3466  
Stuff & Nonsense antiques 622-8868  
1st Fl Adams R David archt 682-8686  
Gustin Ron artist 623-1461  
Sainte-John L artist 624-6761  
116 L & H Printing (Plant)  
S WASHINGTON ST INTERSECTS  
210 Three B's Inc hdw 623-8425  
People's Supply Co whol hdw 623-8425  
214 Vacant  
216 Vacant  
S MAIN ST INTERSECTS  
250 Vacant  
280 Pier 49 (For Occupants See Pier 49)  
300 Pier 48 (For Occupants See Pier 48)  
304 C & H Co importers 624-6765

957

## ZIP CODE 96134

Pier 47  
(FOR OCCUPANTS SEE PIER 46)  
540 Pier 46  
(FOR OCCUPANTS SEE PIER 46)  
563 Pier 43  
(FOR OCCUPANTS SEE PIER 46)  
601 Ye Olde Curiosity Shop retail curio shop  
682-5844  
901 Pier 42  
(FOR OCCUPANTS SEE PIER 46)  
Pier 53  
(FOR OCCUPANTS SEE PIER 46)  
S DEARBORN ST INTERSECTS

958

## S ATLANTIC ST INTERSECTS

1201 U S Coastguard (Support Center)  
(FOR OCCUPANTS SEE PIER 36)  
U S Coastguard  
(FOR OCCUPANTS SEE PIER 36)  
U S Coastguard  
(FOR OCCUPANTS SEE PIER 36)  
U S Coastguard (Museum)  
(FOR OCCUPANTS SEE PIER 36)  
1519 Environmental Protection Agcy (Field Crew)  
442-5840  
U S Genl Serv Admn (Pub Bldg Serv  
Maintenance) 442-4091  
US Environmental Protection Agcy  
(Microbiology Lab)  
U S Customs Patrol 442-5684  
U S Environmental Protection Agcy  
442-4155  
1555 Federal Terminal Building ofc bldg  
Senior Service Centers (Whse) 583-0769  
1701 Washington Glass Co  
1727 Cal-Ink ink & press room sup 622-3215  
1733 B P American Tradind Inc sup ocean ships  
625-1095  
Gatz-Tank Storage Terminals oil stge  
622-0920

317

ALASKAN WAY W —FROM PIER 88 ON  
ALASKAN WAY

## ZIP CODE 98119

W JOHN ST INTERSECTS  
W THOMAS ST INTERSECTS  
W HARRISON ST INTERSECTS



## E MARGINAL WAY S 1981

3413\*North Douglas C @ 525-2270  
 3419 Dickinson R Hugh @ 524-1710  
 3425 Senseney Richd H @ 522-8834  
 3431 Barker Grace W Mrs @ 522-1245

961

**EAST MARGINAL WAY S —FROM JUNC OF  
 S HOLGATE ST AND S ALASKAN WAY  
 SOUTH**

ZIP CODE 98134

**S WALKER INTERSECTS**

1901 Chevron U S A Inc (Trans Dept) 628-5234  
 Alaska Pacific Grocery Inc whol gro  
 682-6202  
 Stancal Employees Credit Union 628-5232  
 2245 Wa Stevedoring Co (Sub Ofc)  
 2247 Jones Washington Stevedoring Co 623-7966  
 International Terminal Co stevedoring  
 623-7466  
 Maritime Service Co Inc stevedoring co  
 claims adj 623-7410  
 Jones Wash Stevedoring (Gear Locker)  
 623-3383  
 Jones Wash Stevedoring (Mech Shop)  
 623-7999

2431 Pier 30

2451 Pier 29

2715 Pier 28 (port of seattle)

Pier 28

N C Machinery Co Inc 583-8700

**ROOMS**

2901 Seattle & North Coast R R (Marine Dept)  
 628-3939

Pier 27

**S STACY INTERSECTS**

**S LANDER INTERSECTS**

**S FOREST INTERSECTS**

963

**S HORTON INTERSECTS**

**S HINDS INTERSECTS**

3400 Crowley Environmental Service Corp  
 pollution controls prod distr 682-4898  
 3420 Port Of Seattle (Term 106 Whse)  
 3425 Am Mail Line Ltd (Container Stge & Mtce)  
 Booth Fisheries seafood 622-2942  
 Seacon (Terminal 25)  
 Port Of Seattle (Cold Stge)  
 Rainier Port Cold Storage 682-2840  
 Seattle Seafoods Inc whol 682-2150  
 100 I L W U Local 19 Longahrmn-Whse  
 Union 623-7461  
 101 I L W V Welfare (Ofc) 682-5932  
 3440 Waterfront Federal Credit Union 622-8415

966

**S SPOKANE ST INTERSECTS**

3600 Alaskan Copper Works 623-5800  
 3623 General Welding Supply Co Inc 624-7033  
 3628 Warden-Batta & Co Inc packing crating exp  
 domestic 622-6662  
 3633 Andrews Machinery Of Washington Inc  
 contrs equip 624-7121  
 Contractors Rental Co heavy equip 624-7121  
 3636 Anthes Inc contrs sup & equip 624-0144  
 3651 Star-Ship Studios studio rental 587-0112  
 3660 Gilmore Steel Cpr (Div Of Am Ind) mfrs  
 623-0568

3670 Nicholson Manufacturing Co 682-2752

**DUWAMISH AV S INTERSECTS**

3693 Sea-Mar Electronics Inc marine equip &  
 sup 622-6130

3801 Lone Star Industries Inc mfrs 623-5596

4100 Port Of Seattle No 5

**S DAKOTA ST INTERSECTS**

4120 Port Of Seattle (Whse)

4140 Port Of Seattle (Frt Terminal-Whse)

382-3682

U S Customs 382-3784

**S IDAHO ST INTERSECTS**

4401 State Liquor Control Board (Stored & Agcys  
 Div) 464-6860  
 State Liquor Store No 101 464-6055  
 State Liquor Control Bd (Whse) 464-6077  
 State Liquor Control Bd (Enforce Div)  
 464-6094  
 State Liquor Control Bd (facilities & info)  
 464-6070

**S OREGON ST INTERSECTS**

4501 Duwamish Pumping Sta 762-0888

978

4500 Port Of Seattle Whse

**DIAGONAL AV S INTERSECTS**

4600 Cascade Machinery & Electric Inc 762-0500

4634 Vacant

4660 Bunzen & Davis whol fish prod 767-7418

Northwest Ship Suppliers Inc 762-2650

Siberian Salmon Egg Co whol 762-2620

Shafer-Haggart Ltd seafood broker 767-5331

**S ALASKA ST INTERSECTS**

4735 Federal Center South (Ofc Bldg)

Saga Food Service food serv mgmnt 763-8626

## ALASKAN WAY S 1976

## BAY INTERSECTS

Pier 71

(FOR OCCUPANTS SEE PIER 71)

952

ALASKAN WAY S —FROM FT OF YESLER  
WAY SOUTH

## ZIP CODE 98104

110 Draper Machine Works Inc 623-8141

Salmon Bay Marina Inc (Admn Ofc) 623-8141

111 Pier 51

(FOR OCCUPANTS SEE PIER 51)

114 Cole Fred Factory & Gallery wallpaper mfrs  
623-4018

## S WASHINGTON ST INTERSECTS

201a Vacant

210 Three B's Inc (Dba Peoples Sup Co) hdw  
623-8425

212 Vacant

214 Three B's Inc (Stge)

216 Three B's Inc (Stge)

218 Vacant

## S MAIN ST INTERSECTS

300 Alaska Marine Hiway System ferry serv  
623-1970

304 C &amp; H Co importers 624-6765

Sturham Otto &amp; Sons sailmakers 624-3386

957

## ZIP CODE 98134

Pier 47

(FOR OCCUPANTS SEE PIER 47)

540 Pier 46

(FOR OCCUPANTS SEE PIER 46)

563 Pier 43

(FOR OCCUPANTS SEE PIER 43)

901 Pier 42

(FOR OCCUPANTS SEE PIER 42)

Pier 53

(FOR OCCUPANTS SEE PIER 53)

## S DEARBORN ST INTERSECTS

958

## S ATLANTIC ST INTERSECTS

1201 Pier 36

(FOR OCCUPANTS SEE PIER 36)

Pier 37

(FOR OCCUPANTS SEE PIER 37)

Pier 38

(FOR OCCUPANTS SEE PIER 38)

1519 Pier 39

(FOR OCCUPANTS SEE PIER 39)

1555 Environmental Protection Agcy (LABY)  
442-5840U S Genl Serv Admn-Pub Bldg Serv  
Maintenance 442-4091

U S Customs Patrol 442-5684

U S Genl Serv Asmn 442-4091

Environmental Protection Agcy 442-4155

1701 Washington Glass Co

1727 Cal-Ink ink &amp; press room sup 622-3215

1733 Vacant

317

ALASKAN WAY W —FROM PIER 88 ON  
ALASKAN WAY

## ZIP CODE 98119

W JOHN ST INTERSECTS

W THOMAS ST INTERSECTS

W HARRISON ST INTERSECTS



## E MARGINAL WAY S 1976

Telephone 633-2311

1715 North 34th Street

Seattle, Washington 98103

STEEL SHELVING • CABINETS • LOCKERS • SHOP EQUIPMENT

**Plymouth** **UNIVERSITY DATSUN SALES - SEP**  
4242 Roosevelt Way N.E.

**NE EAST LAUREL DR--Contd**  
4565 Crayne Ruth R Mrs @ 522-6657  
W LAUREL DR NE INTERSECTS

**EAST LAURELHURST DR NE--FROM**  
SOUTH END W LAURELHURST DR NE  
NORTH 1 SOUTH OF WEBSTER POINT RD  
NE

ZIP CODE 98105

3004 Amick Russell D @ 525-7065  
3011 Robinson John C @ 522-0045  
3012 Parsons Geo H @ 525-2874  
3018 Strong Harry M @ 523-9197  
3023 Mc Coy Robt J @ 524-3621  
3033 Mc Gee John S @  
3038 Rogge Celeste F Mrs @ 522-6603  
3042 Rogge Leland 524-2975  
3045 Hannah Robt D @ 522-1420  
3048 Thurber Muriel S Mrs @ 524-0726  
3048 1/2 Mendor Mark  
3049 Boyker Gary P @ 523-7546  
3054 Nank David R @ 522-0780  
3057 Smith Hugh A @ 522-5895  
NE 31ST ST INTERSECTS  
3100 Duggan Robt D @ 523-3305  
3109 1/2 Lamb Geo @  
3112 Wiley Welles R @ 523-5374  
3120 Quigley J Edmund Hon @ 524-6362  
3124 Kargus David E @ 523-8106  
3125 Scarvie Glenn M @ 523-5441  
3128 Freeman Geo W @ 524-1623  
3131 Wilkie Richd F @ 524-3131  
3135 Lee Theresa P Mrs @ 522-2284  
3140 Alkire Durwood L  
3141 Davis Hal R @ 523-0870  
3145 Anderson Roy B @ 523-3852  
3150 1/2 Basingthwaighie James @ 523-5056  
3151 1/2 Katsaros Michl A 524-6184  
3156 Garrigue Henry B @ 523-6972  
NE 33D STREET INTERSECTS  
3302 Powell Gordon S @ 525-4166  
3310 Suzuki M Paul @ 524-2160  
3315 Leach James G @ 525-4773  
3316 Kretschmer K Peter @ 523-6880  
3324 Decor Imports int dec  
Martin Clinton @ 522-2790  
46TH AV NE INTERSECTS  
3354 Gross Robt D @ 524-2410  
3355 Eltherington Donn @ 524-0970  
3360 Eastman Margt E Mrs @ 522-9308  
3368 1/2 Carlson F  
3373 Porter The W @ 523-0147  
47TH AV NE INTERSECTS  
3400 Rabinowitz Alan @ 525-7941  
3402 Evans Milton J @ 524-2098  
3408 Brown Eric O @ 524-3133  
3419 Dickinson R Hugh @ 524-1710  
3431 Barker Grace W Mrs @ 522-1245

**EAST MARGINAL WAY S--FROM JUNC OF**  
S HOLOGATE ST AND S ALASKAN WAY  
SOUTH

ZIP CODE 98134

**S WALKER INTERSECTS**  
1901 Standard Oil Co Of California (Mtr Trans)  
623-6310  
Stand Oil Co Of Calif (Whse) 623-9070  
2247 International Handling Co stevedoring  
623-7966  
Jones Washington Stevedoring Co 623-7966  
Washington Terminals (Dock Operations)  
623-7966  
2451 Black Ball Transport Inc water trans  
622-2222  
2731 American Pres Lines 242-4661  
American Pres Lines (Operations Ofc)  
624-4400  
US Bureau Of Customs & Inspection  
ROOMS  
1 Washington Council For International  
Trade 623-2731  
7 I L W Local 52 624-1948  
9 Gow Alexander Inc marine surveyors  
622-0520  
2765 Vacant  
2901 C M S T P & R R (marien dept) 628-3939  
S STACY INTERSECTS  
S LANDER INTERSECTS  
S FOREST INTERSECTS

**S HORTON INTERSECTS**  
S HINDS INTERSECTS  
3400 Crane Supply Co whol plmb sups 624-1323  
3425 Am Mail Line Ltd (Container Sigs & Mtes)  
Booth Fisheries Corp pkr 622-2942  
Port Of Seattle (Cold Sigs)  
Rainier Port Cold Storage 762-6800  
Seattle Seafoods Inc whol 682-2150  
Seven Seas Inc whol seafood prod 622-2520  
3440 Office Building  
Rooms  
100 Anchor Hocking Glass Corp glassware  
mfrs 623-3444  
101 Vacant  
3 Freight Management Associates 627-7086  
106 Diamond Match Corp mfrs 623-2905  
204 Alaska Hydro Train transport rail cars  
to alaska 682-0660

**S SPOKANE ST INTERSECTS**  
3600 Alaskan Copper Works 623-5800  
3623 General Welding Supply Co Inc 624-7033  
3628 Warden-Betts & Co packing crating exp  
domestic 622-6662  
3633 Andrews Machinery Of Washington Inc  
contrs equip 624-7121  
3636 Advance Scaffolds-Northwest Inc contrs sup  
& equip 624-0144

3660 Gilmore Steel Corp mfrs 623-0565  
3670 Nicholson Manufacturing Co (Sales Ofc)  
682-2752  
3693 Sea-Mar Electronics Inc marine equip &  
sup 622-6130  
DUWAMISH AV S INTERSECTS  
3801 Lone Star Industries Inc mfrs 623-5596  
3818 Casket Distributors Inc whol 682-8042  
S DAKOTA ST INTERSECTS  
4100 Carton Service Co 623-2400  
United Construction Supply Inc whol  
concrete 623-2424  
4120 Port Of Seattle (Whse)  
4140 Port Of Seattle (Prt Terminal Whse)  
587-3317  
U S Customs 442-4674  
S IDAHO ST INTERSECTS  
4201 State Liquor Control Board-Stores & Agcys  
Div 464-6070  
State Liquor Store No 101 464-6055  
State Liquor Control Bd (Whse) 464-6077  
State Liquor Control Bd (Enforce Div)  
464-6094  
State Liquor Control Bd seattle facilities &  
info 464-6070  
S OREGON ST INTERSECTS  
4545 Duwamish Pumping Sta 762-0868

4500 Port Of Seattle Whse  
DIAGONAL AV S INTERSECTS  
4600 Cascade Machinery & Electric Inc 762-0500  
4634 Container Corp Of America (Corrugated Div)  
box mfrs 762-7330  
4660 Bunton & Davis whol fish prod 762-2630  
De Recat R J & Co Inc sports marine rep  
762-2912  
Northwest Ship Suppliers Inc ship chandler  
762-2650  
Siberian Salmon Egg Co whol 762-2620  
4661 Vacant  
S ALASKA ST INTERSECTS  
4735 U S Govt Health Educ-Welfare (Soc  
Security) 764-3618  
Fed Center S  
US Corps Of Engrs 764-3742  
S HUDSON ST INTERSECTS  
5000 Totem Equipment Co logging sup 762-9191  
5055 Marine Power & Equip (Whse) 762-5510

**S DAWSON INTERSECTS**  
5200 Loomis Armored Car Service Inc 762-0770  
5209 Manson Construction & Engineering Co Inc  
genl contrs 762-0850  
5225 Integrated Container Corp frt forwarding  
762-0737  
Mitchell Bros Truck Lines 762-7100  
5237 Northwest Colonial Boat Sales boat rls sls  
762-0733  
Seattle Boiler Works Inc mfrs 762-0737  
5245 Parsons Ralph M Co Inc The (Alaska  
Pipeline Whse) 762-4930  
S BENNETT INTERSECTS  
5390 Vacant  
S BRANDON INTERSECTS  
5400 Argo Blower & Mfg Co Inc blowers and  
exhaust fans mfrs 762-9336  
Koffee Pot Restaurant 762-9400  
5417 Vacant  
S LUCILE INTERSECTS  
5510 Safety & Supply Co equip & apparel  
762-8500  
S FINDLAY INTERSECTS  
S ORCAS INTERSECTS  
S MEAD INTERSECTS  
5800 Vacant  
5801 Northwestern Glass mfrs glass container  
762-0660  
S FIDALGO INTERSECTS  
5901 Longview Fibre Co box mfrs 762-7170  
5931 Kaiser Gypsum Co Inc bldg matls 762-7205  
5940 Standard Stations Inc 763-1567  
5975 Glacier Sand & Gravel Co distr & ret  
763-2200  
Kaiser Cement & Gypsum Corp cement mfrs  
763-1800  
Kaiser Gypsum Co (Sls & Order Dept)  
764-3096  
ZIP CODE 98108  
1ST AV S INTERSECTS  
6000 King County Directors Assn pub sch sup  
763-4490  
6050 Consolidated Freightways trans lines  
763-1600  
S FRONT INTERSECTS  
6305 Vacant  
S MICHIGAN INTERSECTS  
6442 Taco Time restr 762-5630  
6501 Fraser Pattern Works ptrn mkr B02-6366  
Active Auto Rebuild repr 763-1260  
Hammer Harry & Co auto repr 763-1260  
Stanley's Machinery Repair mach repr serv  
762-1781

**S RIVERS ST INTERSECTS**  
6601 Copper Door Tavern 762-9505  
6603 Margie's Barber Shop  
6701 Schnitzer Investment Corp 767-6000  
Seattle Cold Storage (Sigs) 767-6000  
6703 Duo Fast Washington Inc stapling 763-1776  
6705 Seattle Food Supply whol groc 762-5851  
Dante Sales food whol 762-5851  
Arctic Container Serv Inc (ofc sp)  
Alaskan General 762-3040  
6714 Budget Batteries 767-3075  
6719 Arctic Container Service Inc distr ind rubber  
prod 762-6565  
6720 Pacific Rubber Inc whol prod 762-6800  
6731 U S P O (Mail Bag Unit) 442-2418  
6749 Vacant  
General Can Inc whse & transfer 762-5000  
6755 Campbell Chain Co chain mfrs 767-3030

"SINCE 1958"

COPYING EQUIPMENT

SALES - RENTALS - LEASING - NEW - USED - TRADES

REPAIRS AND SUPPLIES

VISIT OUR SHOWROOM

350 NO. 38th

634-1050

JLS JANITOR

INSURED COMMERCIAL  
GUARANTEED QUALITY WORK AND



## ALASKAN WAY S 1971

Pier I Imports MA2-4072  
(FOR OCCUPANTS SEE PIER 70)  
BAY INTERSECTS  
Pier 71  
(FOR OCCUPANTS SEE PIER 71)

962

**ALASKAN WAY S —FROM FT OF YESLER  
WAY SOUTH**

ZIP CODE 98104  
110 Draper Machine Works Inc MA3-8141  
111 Pier 51  
(FOR OCCUPANTS SEE PIER 51)  
114 Custom Foils mfg wallpaper MA3-4028  
S WASHINGTON ST INTERSECTS  
201a City Harbor Police Sta No 1 583-2179  
210 Three B's Inc (Dba Peoples Sup Co) hdw  
MA3-8425  
212 Vacant  
Moore Tasso  
Miller Frank A MA2-9946  
214 Three B's Inc (Stge)  
216 Three B's Inc (Stge)  
218 Vacant  
S MAIN ST INTERSECTS  
300 Pier 48  
304 C & H Co importers MA4-6765  
Sturham Otto & Sons sailmakers MA4-3386

967

41 ZIP CODE 98134  
(FOR OCCUPANTS SEE PIER 47)  
540 Pier 46  
563 Pier 43  
(FOR OCCUPANTS SEE PIER 43)  
901 Pier 42  
(FOR OCCUPANTS SEE PIER 42)  
(FOR OCCUPANTS SEE PIER 53)  
S DEARBORN ST INTERSECTS  
1049 Vacant

968

S ATLANTIC ST INTERSECTS  
1519 Pier 36  
(FOR OCCUPANTS SEE PIER 36)  
Pier 37  
63 (FOR OCCUPANTS SEE PIER 37)  
Pier 38  
(FOR OCCUPANTS SEE PIER 38)  
Pier 39  
(FOR OCCUPANTS SEE PIER 39)  
U S Genl Serv Admn-Pub Bldg Serv  
Maintenance MU2-2700  
14 U S Corps Of Engrs-Seattle Dist MU2-2700  
1701 Pier 35  
(FOR OCCUPANTS SEE PIER 35)  
1727 Tenneco Chemicals Inc ink mfrs MA2-3215  
1733 Vacant

969

**ALASKAN WAY W —FROM PIER 88 ON  
ALASKAN WAY**

ZIP CODE 98119  
15 1461 Auto Warehousing Co (Whse Stge)  
W JOHN ST INTERSECTS  
W THOMAS ST INTERSECTS  
W HARRISON ST INTERSECTS

# E MARGINAL WAY S 1971

**SERVING GREATER SEATTLE SINCE 1946 COLLECTION SPECIALISTS PROMPT, EFFICIENT SERVICE  
SPECIALIZING IN PROFESSIONAL & RETAIL ACCOUNTS LIST WITH US-NO CHARGE TILL WE COLLECT  
AFFILIATED WITH KING COUNTY CREDIT MEN INC.**

**REET, SUITE 370**

3373 Porter W Thos @ LA3-0147  
47TH AV NE INTERSECTS  
3400 Swanson Aug G @ LA2-3662  
3402 Evans Milton J @ LA4-2098  
3408 Brown Eric O @ LA4-3133  
3419 Dickinson R Hugh @ LA4-1710  
3431 Barker Grace W Mrs @ LA2-1245

EAST MARGINAL WAY S —FROM JUNC OF  
S HOLGATE ST AND S ALASKAN WAY  
SOUTH

ZIP CODE 98134  
S WALKER INTERSECTS  
1901 Standard Oil Co Of California (Mtr Trans)  
MA3-6310  
2241 Vacant  
2247 International Handling Co stevedoring  
MA3-7966  
Olympic Peninsula Stevedoring Co MA3-7999  
Rothschild Washington Stevedoring Co  
MA3-7966  
Washington Terminals (Dock Operations)  
MA7-3966  
2731 Building  
2431 Black Ball Freight Service jack king treas  
MA2-7840  
Black Ball Transport Inc water trans  
MA2-2222  
2731 American Mail Line (DOCK) MA4-4400  
American Mail Line (Operations Ofc)  
MA4-4400  
US Bureau Of Customs & Inspection  
MA4-4400  
1 Dieterich Robt archt MA2-8526  
7 Vinikaw H H marine eng surveyor  
MA3-7366  
9 Gow Alexander Inc marine serv MA2-0520  
2765 Wally's Trap restr  
Horn Irene  
2901 Chicago Milwaukee Saint Paul & Pacific  
Railroad (marien dept) MA3-7787  
2911 Vacant  
2917 Young Corp machinery mfg MA4-1071  
S STACY INTERSECTS  
S LANDER INTERSECTS  
S FOREST INTERSECTS

S HORTON INTERSECTS  
S HINDS INTERSECTS  
3400 Crane Supply Co whol plmb sups MA4-1323  
3401 Booth Fisheries (Div Consolidated Foods)  
whol MA2-2942  
Rainier Port Cold Storage RO2-8800  
Seattle Seafoods Inc whol MU2-2150  
3420 Taylor-Edwards Warehouse & Transfer Co  
Inc (Whee) MA2-2960  
3440 Office Building  
Rooms  
100 Anchor Hocking Glass Corp mfrs  
MA3-3444  
101 North City Glassware whol MA2-7115  
102 Vacant  
201 Baur Leonard W & Associates fir traffic  
consultant MA4-2933  
201 Geddes Robt L & Associate fir traffic  
consultant MA4-2933  
201 Westward Shippers MA4-2933  
202 Porter H K Co Inc (Elec Div) MA3-3775  
203 Diamond National Corp (Fiber Prod Div)  
204 Vacant  
207 French R T Co als ofc MA2-7633  
209 Swifsure Fisheries cannerns MA2-2218  
3451 Vacant  
Rear Westinghouse Electric Corp (Industrial Rep  
Dept) MA2-7262

**S SPOKANE ST INTERSECTS**  
3600 Alaskan Copper Works MA3-5800  
3623 General Welding Supply Co Inc MA4-7033  
Ohio Medical Products oxygen MA4-5366  
3628 Northwest Chain-Flow Systems distr  
MA2-8629  
Warden-Batts & Co packing crating exp  
domestic  
3633 Andrews Machinery Of Washington Inc  
contrs equip MA4-7121  
3636 Advance Scaffolds-Northwest Inc contrs su  
& equip MA4-0144  
3660 Gilmore Steel Corp mfrs MA3-0565  
3670 Nicholson Manufacturing Co (Sales Of)  
MU2-2752  
3693 Vacant  
**DUWAMISH AV S INTERSECTS**  
3801 Lone Star Industries Inc mfrs MA3-5596  
3818 Casket Distributors whol MT12-3887



## ALASKAN WAY S 1966

---	CEDAR INTERSECTS	
---	BROAD INTERSECTS	950
---	BAY INTERSECTS	
-----		952
ALASKAN WAY S -FRCH FT OF YESLER WAY SOUTH		
108	BUCHANAN AUTO FREIGHT MA2-4419	
110	DRAPER MACHINE WORKS INC MACHS MA3-8141	
114	NORCO MANUFACTURING CO VENETIAN BLINDS MA4-6144	
---	S WASHINGTON INTERSECTS	
201A	CITY HARBOR POLICE JU3-2179	
210	THREE B'S INC (DBA PEOPLES SUP CO) HDW MA3-8425	

---

**LABOR COUNCIL, A**

MARVIN L. WILLIAMS, Sec.-Treas.

ashington 98121 Tel. MU



## ALASKAN WAY S 1966

		TEL. MAin 3-0870
	212 O'K HOTEL LODGINGS	
	MA2-9946	
	214 THREE B'S INC (STGE)	
	216 THREE B'S INC (STGE)	
	220 BOSTON HOTEL LODGINGS	
	JOHNSON VERA	
	---S MAIN INTERSECTS	
1	304 C & H CO IMPORTERS	
	MA4-6765	
	STURHAM OTTO & SONS	
	SAILMAKERS MA4-3386	
		957
	---S DEARBORN ST INTERSECTS	
	1049 ELY & WALKER DRY GOODS CO	
	WHOL MA4-6939	
	HEATH H W INC	
		958
5	---S ATLANTIC INTERSECTS	
	1519 U S ARMY RECRUITING SERV	
	U S ARMY EXAM & INDUCTION	
	STA MU2-2700	
	U S GENL SERV ADMN-PUB	
	BLDG SERV MU2-2700	
	U S AIR FORCE-1929	
3	CUMMUNICATIONS GROUP	
	(CONUS) MU2-2700	
	U S CORPS OF ENGS-SEATTLE	
	DIST	
	1727 CALIFORNIA INK CO MFRS	
	1733 TIDEWATER CIL CO MA2-0920	
		969
	ALASKAN WAY W -FROM W DENNY	
	WAY NORTHEAST	
	1461 CONVOY CO AUTO TRANS SERV	
	---W JOHN INTERSECTS	

## E MARGINAL WAY S 1966

**INSURANCE COMPANY**  
Established 1906  
Tel. MAin 4-0031

456

1031 GENTLE MARJORIE •  
1032-1035 VACANT  
1555 NORTHWEST MAGAZINE  
DISTRIBUTING CO WHOL  
NEWS DEALERS AT4-7617

----- 70

EAST LAUREL DR NE -FROM 54TH  
AV NE

4520 OUTCALT RICH D •  
LA5-4017  
4524 BIERMAN C WARREN •  
LA5-2487  
4525 LONG ROBT • LA3-7994  
4526 VACANT  
4529 DASH JAY G • LA2-0485  
4532 PEDIGO ROBT W • LA3-3862  
4533 MATSON MICHL P • LA2-4352  
4539 MANDER LINDEN A •  
LA3-1949  
4540 CLEMENTS RANDOLPH •  
LA4-4411  
4545 PRESSLY THOS J • LA2-6344  
4546 LIVINGSTON GOODHUE •  
LA2-2194  
4552 WOODBURN LLOYD S •  
LA4-1774  
4556 WITHERS ROBT R • LA5-6876  
4565 CRAYNE RUTH R MRS •  
LA3-6657

----- 28

EAST LAURELHURST DR NE -FROM  
SOUTH END W LAURELHURST DR  
NE NORTH I SOUTH OF WEBSTER  
POINT RD NE

3008 GEORGE EVA S MRS •  
LA2-7666  
3011 ROBINSON JOHN C •  
LA2-0085  
3012 PARSONS GEO H • LA3-2243  
3018 FOLTZ ELDOR L • LA5-7479  
3023 RUTHERFORD MARGT D MRS •  
LA5-7395  
3033 WOODFORD OLIVER H •  
LA3-2244  
3026 ROGGE EDGAR A • LA2-6603  
3042 REI FRANK W C L V •  
ASSOCIATES  
REI FRANK • LA5-8930  
3045 HANNAH ROBT D • LA2-1420  
3046 THURBER MURIEL S MRS •  
LA4-0726  
3048B COURTNEY ALVIN L  
3045 QUIGLEY JOSEPHINE M MRS •  
LA2-0421  
3054 LEAR HARRY B • LA3-2222  
3057 VAN CAMP WALTER A •  
LA5-3565  
3100 FLOHR L CARLOS • LA4-1311  
3109 HANSON HENRY • LA5-9610  
3112 WILEY WELLES R • LA3-5374  
3112B VACANT  
3120 QUIGLEY J EDMUND •  
LA4-6362  
3124 KARGES DAVID E • LA2-9106  
3125 SCARVIE GLENN M LA3-5441  
3128 FREEMAN GEO W • LA4-1623  
3131 POST ROYAL E • LA2-3131  
3135 LEE THERESA P MRS •  
LA2-2284  
3140 ALKIRE DURWOOD L •  
LA3-5912  
3141 DAVIS MAL R • LA3-0870  
3145 ANDERSON ROY B • LA3-3852  
3150 KRIGSE HOWARD • LA3-6469  
3151 GOSS HAROLD L • LA2-6739  
3156 GARRIGUES HENRY B •  
LA3-6972

---NE 330 INTERSECTS  
3302 WATKINS WM H • LA3-3850  
3310 SUZUKI M PAUL • LA4-2160  
3315 MCKLESTONE DOROTHEA P  
MRS • LA2-3660  
3316 PALKEN MORTON • LA2-6655  
3324 MARTIN CLINTON • LA2-2790  
---40TH AV NE INTERSECTS  
3354 HULETZ EDW A • LA2-2296  
3355 FALES GILBERT R •  
LA2-3355  
3360 EASTMAN ELWYN A •  
LA2-0308  
3368 GORMAN CHARLES E LA5-8566  
3373 ROBERTS KENNETH M •  
---47TH AV NE INTERSECTS  
3400 SWANSON AUG G • LA2-3662  
3402 EVANS MILTON J • LA4-2098  
3408 BROWN ERIC O • LA4-3133  
3419 JONES BRADLEY T •  
LA2-3618  
3421 BARKER GRACE W MRS •  
LA2-1245  
---51ST AV NE INTERSECTS

----- 961

EAST MARGINAL WAY S -FROM JUNC  
OF S HODGATE AND S ALASKAN  
WAY SOUTH

---S WALKER INTERSECTS  
2201 DON'S CHEVRON GAS STA  
2241 SEA MAG TAVERN MA3-9482  
2247 INTERNATIONAL HANDLING CO  
MA3-7966  
OLYMPIC PENINSULA  
STEVEDORING CO MA3-7999  
ROTHSCHELO INTERNATIONAL  
STEVEDORING INC MA3-7966  
WASHINGTON STEVEDORING CO  
INC SIDE ENTRANCE  
MA3-7999  
2731 COMMERCIAL IMPORT &  
EXPORT CO MA3-8856  
---S STACY INTERSECTS  
---S LANDER INTERSECTS  
---S FOREST INTERSECTS

----- 963

---S HORTON INTERSECTS  
---S HINDS INTERSECTS  
3400 CRANE SUPPLY CO WHOL PLMB  
SUPS MA4-1323  
3415 AMERICAN MERCHANT MARINE  
LIBRARY KASSN MA4-0788  
LABEL IMPRINTERS MFRS  
MA4-0768  
3420 TAYLOR-EDWARDS WAREHOUSE  
& TRANSFER CO INC (WHSE)  
MA4-0768

3425 PUCKETT CO THE CANNED  
SALMON LABELERS MA3-4141  
3433 SEATTLE SEAFOODS INC WHOL  
MU2-2150  
3440 ANCHOR HOCKING GLASS CCRF  
MFRS MA3-3444  
NORTH CITY GLASSWARE WHOL  
MA2-7115  
PORTER H K CO INC (ELEC  
DIV) MA3-3775  
EVANS MACHINERY CO MACH  
TOOLS MA3-7602  
VANDEX PACIFIC INC  
CONCRETE WATER PROOFING  
MA3-0538  
3451 WESTINGHOUSE ELECTRIC  
CORP (REPR DIV) MA2-0608  
REAR WESTINGHOUSE ELECTRIC  
CORP (INDUSTRIAL REPR  
DEPT) MA2-7262  
3466 BUILDING  
ROOMS  
101 ANCHOR HOCKING GLASS  
CORP (OPC) MA3-3444  
102 VACANT  
201 WESTWARD SHIPPERS  
TRAFFIC CONSULTANT  
MA4-2533  
104-106 VACANT  
202 TAY-GAR SALES INC FOOD  
& HOUSE BROKERS  
MA3-3242  
203 VACANT  
204 GRANGER & CO FOOD  
BROKER MA3-3242  
207 VACANT  
208 VACANT  
209 ALASKA TRAFFIC  
CONSULTANTS MU2-2818

----- 966

---S SPOKANE INTERSECTS  
3600 ALASKAN COPPER WORKS CO  
MA3-5800  
3616 R DISTRIBUTORS INC BEER &  
WINE MU2-8043  
3623 AIR REDUCTION PACIFIC CO  
OXYGEN MA2-3260  
OHIO CHEMICAL PACIFIC CO  
OXYGEN MA4-5366  
3626 U S PIPE & STEEL CO  
(WHSE) MA2-0890  
3628 NORTHWEST CHAINS &  
SPROCKETS INC DISTR  
MA2-8629  
3633 ANDREWS MACHINERY OF  
WASHINGTON INC CONTRS  
EQUIP MA4-7121  
3636 ADVANCE  
SCAFFOLDS-NORTHWEST INC  
CONTRS SUP & EQUIP  
MA4-0144  
3651 HYDRAMANIC SYSTEM CORP  
HYDRAULIC SCRAP  
PROCESSING MA4-4610  
RICHARDS SHEAR CO  
HYDRAULIC SCRAP  
PROCESSING MA4-4610  
3660 GILMORE STEEL CORP MFRS  
MA3-0565  
3670 NICHOLSON MANUFACTURING  
CO (SALES OFC) MU2-2752  
3693 STATE UTILITIES & TRANS  
COGN MA4-1844  
3695 STATE DEPT OF HWYS  
(APPRAISAL OFC) MU2-0702  
---DUMAMISH AV S INTERSECTS  
3801 LONE STAR CEMENT CORP  
MFRS MA3-2280  
3818 WHEAT W W & SON MFRS AGT  
MA4-8222

---S NEVADA INTERSECTS  
---S DAKOTA INTERSECTS  
4100 CONSTRUCTION TIRE SERVICE  
(BR) RECAPPING MA2-6836  
INLAND STEEL PRODUCTS CO  
(WHSE) MA3-3393  
NATIONAL TRANSFER MOSE  
WHSE MA3-7550  
NATIONAL WAREHOUSE &  
DISTRIBUTING CO MOSE  
MA3-0676  
WEAVER BRDS INC TRUCK &  
BARGE TRANS MU2-3950  
4120 VACANT  
4140 STATE SURPLUS PROPERTY  
SECTION PA3-0400  
---S IDAHO INTERSECTS  
---S IDAHO INTERSECTS  
4201 STATE LIQUOR CONTROL  
BOARD-STORES & AGCYS DIV  
MU2-1090  
STATE LIQUOR STORE NO 101  
MU2-1090  
STATE LIQUOR CONTROL  
(WHSE) MU2-1090  
---S OREGON INTERSECTS  
4500 BOEING CO THE (WHSE 5504)  
4545 MUNICIPALITY OF MET  
SEATTLE SEWAGE TREATMENT  
PLANT PA2-8363

----- 978


---DIAGONAL AV S INTERSECTS  
4600 CASCADE MACHINERY &  
ELECTRIC INC ELEC MTRS  
RO2-0908  
4634 CONTAINER CORP OF AMERICA  
(CORRUGATED DIV) BOX  
MFRS RO2-7330  
4660 K & L BEVERAGE CO WHOL  
BEER RO2-7770  
K & L DISTRIBUTORS INC  
WHOL LIQUORS RO2-7770  
NORTHWEST BEVERAGES INC  
RO2-2770  
4661 PACIFIC NATIONAL BANK  
(MISSILE PRODUCTION  
CENTER) MA2-5336  
---S ALASKA INTERSECTS  
4735 BOEING CO THE (MISSILE  
PRODUCTION CENTER)  
655-2096  
---S HUDSON INTERSECTS  
5000 TOTEM EQUIPMENT CO  
LOGGING EQUIP RO2-9191  
5001 PIONEER TOWING CO BOATS  
RO2-9200  
5016 ROBERTS SIGNAL SERVICE  
GAS STA RO2-9802  
5053 ALASKA AIR FORWARDING  
CORP AIR FRT RO2-4309

AWA






## ALASKAN WAY S 1961

	W Mercer intersects W Roy intersects	351
	W Prospect intersects W Lee intersects W Galer intersects W Garfield intersects	*Con Mix
3	<hr/>	
	1B56	
	ALASKAN WAY S—From ft of Yesler way, south	3 L
	ft Pier 50	
	Shoblud Lumber Co whol	4797
	MA3-4987	
	American Can Co (stge and	PA
	ship) MA3-7593	5
	Connor's Cigar Store MA3-9175	
	Evans Products Co marine htg	
	sup	
	Kimbrell-Lawrence Trans Inc	1111
	MA3-6340	
	<div>  <div> Providing Electricity at Less than Half the National Average Rate. </div> </div>	LA ULri



## ALASKAN WAY S 1961



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**ALASKAN WAY S—Contd**

**Pier 50—Contd**

Seattle Bulk Loading stevedoring MA2-3707  
Seattle Piers Inc MA3-8523  
Washington Industries Inc engs MU2-6442

101 Waterfront Fish & Oyster Co whol & retail MA4-7350  
108 Buchanan Auto Freight MA2-4419  
110 Draper Eng Wks Co machs MA3-8141  
114 Norco Mfg Co venetian blinds MA4-6144  
West Wind Corp fan mfrs MA4-6144  
116 Norco Mfg Co (whse)

**S Washington intersects**  
201a City Harbor Patrol Sta No 1 MA3-0012  
208 Under Construction  
210 Peoples Supply Co MA3-8425  
212 O K Hotel lodgings MA4-9710  
Kochiya Jiyoma K  
214 Western Hardware Co MA3-4723  
220 Peoples Supply Co (stge)  
220 Boston Hotel lodgings MA3-3346  
Jinka Satoshi @ MA3-3346

**S Main intersects**  
ft Main **Pier 48**

Matson Lines (dock ofc)  
Matson Terminals Inc stevedore co MA2-3677  
Pope & Talbot Lines steamship lines MA4-3511  
Weyerhaeuser Steamship Co MA2-0845

**S Jackson intersects**  
ft Jackson **Pier 47**  
Crown Seafood Sales Inc whol MA4-7461  
Johnson Ed Co fish brokers MA2-1890

ft Jackson **Pier 46**  
Port of Seattle dock MA2-8124  
US Customs MA2-8124  
304 C & H Co importers MA4-6765  
Sturham Otto & Sons sailmkr MA4-3386

**S King intersects**  
549 Pacific Lunch

**S Dearborn intersects**  
561 **Pier 43**  
Washington Tug & Barge Co MA3-4338  
Stubbs Albert  
811 Jack's Parking auto  
831 Girtlen's Service Sta gas sta MA4-9881  
Gettman Wm auto reprs MA4-9881

901 **Pier 42**  
Alaska Steamship Co (transportation div) MA2-4530  
Alaska Terminal & Stevedoring Co MA2-4530  
Radio Corporation of America (defense div) MA4-3634  
United Export Packers MA4-3833  
World Wide Household Goods Forwarders Inc frt forwarders MA4-5892

1041 Vacant  
1049 Walker & Ely Dry Goods Co whol MA4-5939

**Connecticut intersects**  
**Atlantic intersects**  
**W Atlantic intersects**  
1519 **Pier 37**  
**Pier 38**  
US Coast Guard MU2-2300  
**Pier 39**  
USA Engs Portland Eng Dist Lbr Br MU2-2700  
USA Engs - Seattle Eng MU2-2700  
US Armed Forces Examining Induction Sta MU2-2700  
USA Engs - Seattle Eng Dist Engineer & Sup MU2-2700  
USA Alaska Communication Sys (procurement & distribution div) MU2-2700  
US Post Ofc Dept Bur of Facilities MU2-2700  
US Post Ofc Dept - Mail Bag Depository  
USA Recruiting Service MU2-2700  
USA Vet Food Inspection Detachment MU2-2700

**US General Services Administration - Public Bldgs Service MU2-2700**  
US Dept of Interior - Bur of Indian Affairs - Terminal City fire Dept Engine Co No 5 MA4-0337

1539 **Pier 36**  
**Pier 35**  
Port of Seattle - Dock Office MA4-8124  
US Dept of Bur Customs MA2-8124

**W Massachusetts intersects**  
1701 Shower Door Co of Seattle mfrs MU2-0908  
1727 California Ink Co Inc mfrs MA2-3215

1733 **Pier 34**  
Tidewater Oil Co MA2-0920

**W Holgate intersects**  
**W Railroad intersects**  
**E Marginal way intersects**

**ALBERT PL W—From 3300 Brygger dr, northwest** 337

**ALBION PL N—From 1000 N 34th, north** 16

3410 Temple Jack ME2-0328  
3421 Miller Gene A  
3422 Steele Birdie M Mrs  
3423 Rutherford Ethel H Mrs  
3434 Basta Frank J @ ME2-2713

**N 35th intersects**  
**3501 Apartments**  
1 LaFountain Henry A  
2 Vacant  
3 Mayouck Charlotte Mrs  
4 Vacant

**N 36th intersects**  
3610 Michael Myrtle L Mrs ME3-7257  
3614 Gustafson Del G  
3616 Parkton Caroline Mrs ME3-5657  
3619 Freeman's Dock Seattle Marine Exchange (whse)  
3622 Seattle City Light Sub Sta  
3633 Vacant  
3637 Heath Forrest C @ ME2-2313  
3641 Nicholas Milton C @ ME3-0803  
3643 Tompkins Margt L Mrs @ ME2-4093  
3646 Fisher Orval C ME2-7451  
3646 Osborne Harold S  
3647 Davison Chas E @ ME2-7550  
3649 Wilson Howard G @ ME2-4418  
3651 Wood Ernest W @ ME3-4896  
3655 Jenkins Earl W jr  
3657 Peterson Edin H ME2-6843  
3660 Nelson John E @ ME3-0433  
3661 Wutke Alfons O @ ME2-5042  
3668 Wright Norman S & Co North-west mfrs agts ME3-1366

**N 37th intersects**  
**N 38th intersects**

**ALBRO PL S—From end of S Eddy northwest, 1 south of S Bailey** 145  
**Ellis av S intersects**  
1128 Hatcher's Coffee Shop PA5-4870  
Hatcher Jas E  
1132 Vacant  
**13th av S intersects**  
**S Hardy intersects**  
**Stanley av S intersects**  
**14th av S intersects**  
1415 Pilley Harris P

**ALDER—From junction 5th av and Yesler way, north** 1B37  
**6th av intersects** 1B36

**7th av intersects**  
705-45 Yesler Terrace (housing project)  
705 VanDyke Kenneth MU2-2816  
707 Tully Wm MA3-8965

**708 Apartments**  
86 Vacant  
87 Stevens Blanche C Mrs MA2-7959  
88 Flanders Jane Mrs MA3-0393  
89 King Gertrude Mrs  
90 Chattan Wilhelmima Mrs MA4-7768  
91 Gray Jessie M Mrs MA4-0674  
92 Scott Orelia Mrs MA3-2017  
93 Jeckell Fred  
94 Capern Archibald F MA3-5286  
95 Bush Jas  
96 Stanley Robt F MA2-5043

**Phone ATwiter 4-7700**

**SINCE 1891**

**Seattle 99**

**1st Avenue West**

**E MARGINAL WAY S 1961**

3701 Olson Walter  
 3710 Vacant  
 3711a Lindsay Wm C ©  
 3711b Shaneyfelt Lester L  
 3719 Short Carl W ©

**1B66**

**E MARGINAL WAY S**—From junction  
 S Holgate and S Alaskan way S,  
 south

**1901-35 Pier 32**

Standard Oil Co of Calif (whse)  
 MA3-6310

Standard Oil Co of Calif (sls  
 ofc) MA3-6310

**S Walker intersects**

2201 Ed & Bob's Chevron gas sta  
 MA3-9818

2241 Sea Hag Tavern MA3-9482

2247 International Handling Co  
 MA3-7966

Olympic Peninsula Stevedoring  
 Co MA3-7966

Rothschild Internatl Stevedoring  
 Co MA3-7966

Rothschild Alaska Stevedoring  
 Inc MA3-7966

Tait Stevedoring Co Inc  
 MA3-7966

**S Stacy intersects**

2401 Pier 31

ft of SW Lander Pier 30

**SW Lander intersects**

ft of SW Lander Pier 29

**MELROSE 2-1515**



## E MARGINAL WAY S 1961

FAMILY COUNSELOR AND ADVISER Private Family And Child Consultants Science Of Mind Practitioner  Smith Tower Suite 1820	Tel. MAin 4-7 820 First Ave. South <b>P0</b>
	<p><b>E MARGINAL WAY S—Contd</b></p> <p>2765 Portside Cafe MA2-9921</p> <p><b>S Forest intersects</b></p> <p>2901 <b>Pier 27</b></p> <p>CMStP and PRRCo (Marine Dept) MA3-7787</p> <p>2903 Pacific Air Tool-Div Pac Am Coml Co MA4-5205</p> <p>2911 Pac Am Coml Co industrial sups MA4-5201</p> <p>2917 <b>Pier 26</b></p> <p>Allied Tractor Equip Co MA2-3756</p> <p>2921 Viking Equip Co tractors MA4-5235</p> <p>2929 Sterling Tool Co mfrs MA4-5204</p> <p>2931 Kilsby Tubesupply mfrs MA3-6000</p> <p><b>1B68</b></p> <p><b>S Hanford intersects</b></p> <p>3225 <b>Pier 25</b></p> <p>Hanford Street Grain Elev MA3-1750</p> <p>Cargill Inc exporters MA3-4940</p> <p>State Dept of Agril-Grain Insp Div MA2-0401</p> <p><b>S Horton intersects</b></p> <p><b>S Hinds intersects</b></p> <p>3407-35 <b>Pier 24</b></p> <p>New England Fish Co whol MA3-3155</p> <p>Northwest Fisheries Inc whol MU2-2320</p> <p>Northwest Marine Terminal Assn MA4-7127</p> <p>Rainier Port Cold Storage PA3-7400</p> <p>Salmon Terminals Inc (whse) MA2-8202</p> <p>Salmon Terminals Inc cold stge MA2-8202</p> <p>Sebastian-Stuart Fish Co whol MA3-1477</p> <p>US Dept of Agrl (fumigation plant)</p> <p>3415 American Merchant Marine Library MA4-0788</p> <p>Label Imprinters MA4-0788</p> <p>3420 Swift &amp; Co (Gro Unit) MA3-5912</p> <p>Taylor-Edwards Whse &amp; Transfer Co Inc (whse) MA2-2960</p> <p>3425 Puckett Co The salmon labelers MA3-4141</p> <p>3433 Seattle Seafoods Inc whol fish MU2-2150</p> <p>3440 Vacant</p> <p>3451 Westinghouse Elec Corp mfrs MA2-0808</p> <p>3466 <b>Building</b></p> <p>Kearfott-Div of Genl Precision Inc electronic equip MU2-9390</p> <p>Sylvania Elec Products Inc MA2-6888</p> <p><b>Rooms:</b></p> <p>201 Thompson-Ramo Wooldridge Inc aircraft accessories MU2-1050</p> <p>202 Alaska Traffic Consultants MU2-2818</p> <p>203 Vacant</p> <p>204 Transition Electronic Sls Corp MA4-0783</p> <p>207 Baur Leonard W &amp; Assocs frt traffic consultant MA4-2933</p> <p>Geddes Robt L &amp; Assocs frt traffic consultants MA4-2933</p> <p>208 Vacant</p> <p>209 Granger Floe &amp; Jennings Inc food brokers MA3-3242</p> <p><b>1B71</b></p> <p><b>S Spokane intersects</b></p> <p>3600 Alaskan Copper Wks metal fabricators MA3-5800</p> <p>3616 R Dists Inc beer and wine MU2-8040</p>



## ALASKAN WAY S 1955

**ALASKAN WAY, S—From** **1B-56**  
**Yesler way, south** **ft of**

**101 Pier 50**

Alaska Parcel Service for-  
warding agts Δ MA 0611

Alaska Docks Inc real est  
owners Δ MA 0611

Calvo & Co real est

Δ SE 4471

Commercial Statistics Serv

Δ SE 1365

G & S Handling Co Δ MA 0611

Griffiths & Sprague Stevedor-  
ing Co Δ MA 0611

Macfarlane Lbr Co whol

Δ MU 1612

Marine & Industrial Sup Inc

Δ SE 6926

## ALASKAN WAY S 1955

**ALASKAN WAY, S—Contd****Pier 50—Contd**

Northwest Freight Manage-  
ent Co forwarding agts  
Δ MA 0611  
Ocean Forwarders forwarding  
agts Δ MU 5843  
Shoblad Lbr Co whol Δ EL 4987  
Waterfront Fish & Oyster Co  
Δ SE 7350

108 Buchanan Auto Frt Δ MA 4419

110 Draper Eng Wks Co machs  
Δ EL 8141

112-14 Lowman & Hanford Co  
sls plant Δ EL 8870  
Washington begins

**201 Pier 49**

City Harbor Patrol Sta No 1  
Main Fish Co Inc whol  
Δ EL 8396  
Fox Leo Typewriter Slis & Serv  
Δ SE 7520  
Natl Typewriter Exch  
Δ MA 0751  
Sellen Pete Products fish bait  
Δ MA 3491

205 Gutberlet Laboratories  
Δ EL 4484

207 Tug Tavern Δ SE 5830

208 Peoples Sup Co 2d hd hdw  
Δ SE 5115

209 Tug Cafe

210 Siegel Max 2d hd hdw  
Δ EL 8425

212 O K Hotel lodgings  
Δ SE 9710

214 Western Hdw Co 2d hd  
Δ EL 4723

220½ Boston Hotel lodgings  
Δ SE 0793

221 Parking Inc gas sta Δ SE 9999  
Main begins

304 American Transfer Co Inc  
Δ MA 7396

3d fl Sturham Otto & Sons salimkrs  
Δ SE 8386

**ft Main Pier 48**

Olympic Steamship Co  
Δ MA 4520  
Pacific Argentine Brazil Line  
Inc Δ EL 4630  
Pacific Coast Coal & Oil Co  
Δ MA 5080

Pope & Talbot Inc (steamship  
div) Δ EL 4630

System Transfer Co (whse)

U S Customs Δ MU 4238

**ft of Jackson Pier 47**

Crown Seafood Sales Inc whol  
Δ SE 7461  
Haines Oyster Co whol  
Δ MO 4505

Jackson begins

Copy

## ALASKAN WAY S 1955

ft of Jackson Pier 46  
 Luckenbach Steamship Co (frt  
 ofc) Δ EL 1208  
 Harbor Seafoods whol  
 Δ EL 2656  
 Puget Sound Salmon Egg Co  
 Δ EL 2657  
 304 American Transfer Co Inc  
 Δ MA 7396  
 403 Brownlee's Serv gas sta  
 Δ SE 9121  
 411 Ship-A-Hoy Cafe Δ EL 9375  
 417 Art Brass & Plating Wks  
 Δ SE 4980  
 425 McElhaney H L Co matls hand-  
 ling equip Δ SE 5232

IB-62

King begins

501 Pier 45  
 King Street Dock Parking Serv  
 Δ EL 9713  
 Wash Tug & Barge Co  
 Δ EL 4340 Δ EL 4338  
 525 Pier 44  
 Matson Navigation Co (dock  
 ofc) Δ EL 6215  
 Matson Terminals Inc  
 Δ EL 6873  
 Union Pac RR Co (pier ofc)  
 Δ EL 6933  
 549 Pacific Lunch Δ MA 9566  
 568 Vacant

Dearborn begins

801 Pier 43  
 811 Jack's Parking auto  
 831 Girtten's Serv Sta Δ SE 9881  
 Gettman Wm auto repr  
 901 Pier 42  
 Alaska Steamship Co (trans-  
 portation div) Δ MA 4530  
 Alaska Terminal & Stevedoring  
 Co Δ MA 4530  
 Aleutian Cold Stge Co whol  
 fish Δ SE 2847  
 1049 Pier 39  
 Moore Walton N Dry Goods  
 Δ Co Inc whol Δ SE 6939

IB-63

Connecticut begins

—Pier 38

Atlantic begins  
 W Atlantic begins



## ALASKAN WAY S 1955

**ALASKAN WAY, S—Contd****1519 Pier 37****Military Sea Trans Serv****Δ MA 0100****Seattle Port of Embarkation****Δ MA 0100****1539 Pier 36****Pier 35****W Massachusetts intersects****1727 Calif Ink Co Inc Δ MA 3215****1733 Pier 34****Tide Water Assoc Oil Co****Δ MO 0920****W Holgate intersects****W Railroad intersects****—Pier 33****E Marginal Way begins****337**

## E MARGINAL WAY S 1955

1B-66

MARGINAL WAY, E—From Junc  
Hoigate and S Alaskan way, south  
1901-85 Pier 32  
Standard Oil Co of Calif (plant  
Δ EL 6310  
2201 Tom & Bill's Serv gas  
Δ EL 9818  
2241 Sea Hag Tavern Δ EL 9482  
2247 International Handling Co mdse  
whse Δ EL 7966  
Olympic Peninsula Stevedoring  
Co Δ EL 7966  
Rothschild Intl Stevedoring Co  
Δ EL 7966  
Rothschild's Alaska Stevedoring  
Inc Δ EL 7966  
Tait Stevedoring Co Inc  
Δ EL 7966  
W Stacy begins

2401 Pier 31  
2431 Pier 30  
Drew E F & Co chem mfrs  
Δ SE 5377  
Port of Seattle (Stacy St Term-  
inal) Δ MA 8124  
Utley's Transfer & Stge Co  
Whse  
Transfer & Stge Co Δ SE 5377  
Seattle Stevedore Co gear  
locker Δ SE 5452

2437 Pier 29  
Port of Seattle (Lander St  
Terminal)  
W Lander begins

2711 Aquino Bros Serv gas  
Δ SE 1377

2731 Pier 28  
Olympic Steamship Co Inc  
Δ MA 4520  
Olympic-Griffiths Lines Inc  
Steamship Co Δ MA 4520

2765 Portside Cafe Δ MA 9921  
Forest intersects

2900 Patch & Co Indry sups  
Russell Miller Milling Co  
flour mill  
Tacoma Moving & Stge Co  
Δ MA 3510  
Standard Whse Co Inc  
Δ MU 2900

2901 Pier 27  
CMS&P&PRRCo (Marine  
Dept) Δ EL 7787

2917 Pier 26  
Allied Tractor Equip Co Inc  
Δ MA 3756

2921 Viking Equip Co tractors  
Δ SE 5320  
Hanford begins

3200 Pier 25  
Hanford Street Dock

3205 Vacant

3215-25 Pier 25  
Hanford Street Grain Elev  
Δ EL 4940  
Cargill Inc (Kerr Gifford ex-  
porters (Div) Δ MA 1750  
Salmon Terminal's Fish Stor-  
age  
Horton begins

3300 Northwest Brass Fdry  
Δ EL 4532  
Port Mach Wks Δ MU 0050

3304 Seattle Sprocket Wks mfrs  
Δ MA 1789

3310 Am Bag & Salvage Co junk dlr  
Δ EL 4844

3314 Port of Seattle (mtce shops)  
Δ MA 8124  
United Transfer Inc Δ SE 5881  
Hinds begins

3407-35 Pier 24  
Am Merchant Marine Library  
Assn  
Natl Cannery Assn laby  
Δ EL 5459  
New England Fish Co fish whol  
Δ EL 8155  
Port of Seattle (Spokane St  
Terminal) Δ MA 8124

## E MARGINAL WAY S 1955

2

Puckett The salmon labelers  
 Δ EL 4141  
 Salmon Terminals (whse)  
 Salmon Terminals Inc  
 Δ MA 8202  
 Sebastian-Stuart Fish Co whol  
 Δ EL 1477  
 Spokane Street Cold Storage  
 plant  
 Spokane Street Compressor  
 Plant Δ MA 8124  
 Spokane Street Fish Plant cold  
 storage  
 US Dept of Agrl (fumigation  
 plant)  
 3420 K & E Brokerage Co Inc food  
 products Δ SE 3158  
 Seattle Terminal Inc coml  
 stge Δ MA 2960  
 Crosby Bing Minute Maid  
 Corp frozen food processor  
 Δ MU 5577  
 Bowman & Furseth Co food  
 brokers Δ MA 2960  
 3440 Nestle Co Inc The Δ MA 8363  
 Robinson Loy Brokerage Co  
 Δ MU 1218  
 Western Family Magazine  
 Δ EL 8355  
 3451 Westinghouse Elec Corp mfrs  
 Δ MA 0808  
 3464 Graves-Chambers Co food  
 brokers Δ MU 4462  
 3466 Sylvania Elec Prods Inc mfrs  
 Δ MA 6888  
                     **Spokane begins**  
                     **W Spokane begins**  
 3464 Graves-Chambers Co food  
 products Δ MU 4462  
 3466 Sylvania Elec Products Inc  
 telev equip Δ MA 6888  
 3600 Alaskan Copper Works  
 Δ EL 5800  
 3623 Air Reduction Pac Co carbonic  
 gas mfrs Δ MA 3260  
 Ohlo Chem Pac Co Δ SE 5366  
 Pure Carbonic Co carbonic  
 gas mfrs Δ EL 8252  
 Δ EL 8252  
 3626 Albin Mfg Co constn equip  
 Δ MU 1081  
 Fauchald Sls contrs sups  
 Δ MA 5326  
 3628 Northwest Chains & Sprockets  
 Inc Δ MA 8629  
 3631 Bethlehem Pac Coast Steel  
 Corp (sls ofc) Δ VA 1100  
 3633 Andrews Machy of Wash Inc  
 Δ SE 7121  
 3636 N W Scaffold & Equip Co  
 Inc Δ MU 2555  
 3660 Castle A M & Co steel prod  
 mfrs Δ EL 0565  
 3670 Puget Sound Fabricators Inc  
 steel fabricators Δ MA 0176  
 3693 Rheem Mfg Co (br plant)  
 water heaters Δ MA 7620  
 3801 Superior Portland Cement Inc  
 mfrs Δ SE 6700



## ALASKAN WAY S 1951

		15-28
<b>ALASKAN WAY, S—From ft of</b>		
Yesler way, south		
101	Pier 50	
	Alaska Consolidating & Forwarding Co MA 0611	
	Griffiths & Sprague Stevedoring Co MA 0611	
	Macfarlane-Shoblad Lumber Co whol SE 6966	
	Marine & Industrial Sup Inc SE 6926	
	Waterfront Fish & Oyster Co dhrs SE 7350	
108	Buchanan Auto Frt MA 4419	
110	Draper Eng Wks Co machs EL 6761	
112-14	Lowman & Hanford Co (sls dept) EL 8870	
<b>Washington begins</b>		
201	Pier 49	
	City Harbor Patrol Sta No 1	
	Main Fish Co whol EL 8396	
	Fox Leo Typewriter Slis & Serv SE 7520	
	Natl Typewriter Exch MA 0751	
	Sellen P P fish bait MA 3491	
205	Gutberl Labtys mfr chems SE 4484	
207	Tug Tavern SE 5830	
208	Peoples Sup Co 2d hd hdw SE 5115	
209	Tug Cafe	
210	Siegel Max 2d hd hdw EL 8425	
211	Terminal Parking Lot	
212	O K Hotel SE 9710	
214	Western Hdw Co 2d hd EL 4723	
216	Vacant	
220 1/2	Boston Hotel SE 6793	
221	Parking Inc gas sta SE 9999	
<b>Main begins</b>		
<b>Pier 48</b>		
ft	Main Pier 48	
	Consolidated Services MA 5080	
	Olympic Steamship Co MA 4520	
	Pacific Argentine Brazil Line Inc agts EL 4630	
	Pacific Coast Co The MA 5080	
	Pacific Coast Coal Co MA 5080	
	Pacific Coast Htg & Appliance Co MA 5080	
	Pacific Coast Lbr Co of Calif MA 5080	
	Pacific Coast RR Co (ofc) MA 5080	
	Pacific Coast Terminals MA 5080	
	Pope & Talbot Inc (steamship div) EL 4630	
	U S Customs	
304	Merchants Transfer & Stge Co (whse)	
<b>Pier 47</b>		
	Haines Oyster Co whol MA 4055	
<b>Jackson begins</b>		
ft	of Jackson Pier 46	
	Luckenbach Steamship Co (frt ofc) EL 1208	
	Puget Sound Salmon Egg Co EL 2657	
403	Brownlee's Serv gas sta SE 9121	
411	Pier D Cafe EL 9375	
413	Coml Welding Co MA 6631	
417	Art Brass & Plating Wks EL 7739	
425	Rothschild Internatl Stevedoring Co (shops)	
<b>King begins</b>		

## ALASKAN WAY S 1951

501 Pier 45  
King Street Dock Parking  
Serv  
Wash Tug & Barge Co  
(dock) EL 4340

525 Pier 44  
Matson Navigation Co  
(dock ofc) EL 6215  
Matson Terminals Inc  
EL 6873  
Union Pac RR Co (pier  
ofc) EL 6938

549 Pacific Lunch MA 9566  
563 Pac Coast Coal Co MA 5080  
Dearborn begins

801 Pier 43  
811 Pac Coast RR Co (shops  
and supt ofc) MA 5080

831 Girtten's Serv Sta SE 9881  
Krause J E auto repr

901 Pier 42  
Alaska Steamship Co  
MA 4530  
Alaska Terminal & Steve-  
doring Co MA 4530  
Aleutian Cold Stge Co whol  
fish SE 2847  
Sitka Cold Stge Co SE 2847

1049 Pier 39  
Moore Walton N Dry Goods  
Co Inc whol SE 6939

Connecticut begins

Pier 38  
Atlantic begins  
W Atlantic begins

1519 Pier 37  
Seattle Port of Embarkation  
SPOE (civ personnel br)  
SPOE (intelligence div)  
SPOE (locomotive repr  
shop)  
SPOE (pier receiving ofc)  
SPOE (port air matl ofc)  
USAF Military Air Trans  
Serv (priorities control  
serv)  
USA Engs  
USA Overseas Sup Div  
USA Seattle Liaison Ofc  
US Customs  
US PO Sta  
1 SPOE (facilities div)  
3 SPOE (dispensary)  
5 SPOE (whse)  
6 SPOE (garage)  
7 SPOE (whse)  
8 SPOE (mach shops)  
10 SPOE (carp shop)  
11 SPOE (marine repr shop)  
13 SPOE (restr)  
SPOE (port chaplain's div)  
15 SPOE (port eng shop)  
19 SPOE (pedestrian gate)  
20 SPOE (ofcs)  
21 SPOE (refrig bldg)  
22 SPOE (mess hall)  
34 SPOE (communications  
center)  
97 SPOE (locomotive repr  
shop)

Street continued

1539 Pier 36

Pier 35  
W Massachusetts intersects

1701 Carman Mfg Co furn  
MA 0994

1727 Calif Ink Sup Co MA 3215  
MA 0920

1733 Pier 34  
Hoye's Assoc Serv gas sta  
EL 9765  
Tide Water Assoc Oil Co  
W Holgate intersects  
W Railroad intersects

Pier 33  
E Marginal Way begins

## E MARGINAL WAY S 1951

E MARGINAL WAY S	
4	
MARGINAL WAY, E—From junc	31
Holgate and S Alaskan way,	
south	
1901-35 Pier 32	
Standard Oil Co of Calif	3
(plant)	
2201 McClanhan Bros gas sta	3
EL 9818	
2241 Sea Hag Tavern EL 9482	3
2247-51 Rothschild Internatl	
Stevedoring Co (whse)	3
W Stacy begins	
2401 Pier 31	3
2431 Pier 30	
Am-Hawaiian Steamship	3
Co EL 8120	
Detrex Co whs	3
Drew E F & Co cheml	
mfrs	3
Mexico Refractories Co (whs)	
Utle Transfer & Storage	
Co SE 5377	
Utle Warehouse Co SE 5377	4
Williams Diamond & Co	
stevedores EL 8120	4
2437 Pier 29	4
Brady-Hamilton Stevedor-	
ing Co MA 6577	
Marine Services Inc sups	
EL 6116	
Port of Seattle (Lander St	
Terminal)	
W Lander begins	
2711 Industrial Serv Sta gas	4
sta MA 9447	4
2731 Pier 28	
Olympic Steamship Co	4
MA 4520	
2765 Portside Cafe	4
2901 Pier 27	
CMStP&PRRCo (marine	
dept) EL 7787	
2917 Pier 26	
Isaacson Iron Wks mfrs	
MA 3756	11
Hanford begins	
3205 Larry's Tavern SE 9261	
3215-25 Pier 25	
Hanford Street Grain Elev	
Horner Jack Co salmon	
labelers MA 0745	
Kerr Gifford & Co grain	
exptrs MA 1750	
Port of Seattle (Hanford St	
Terminal)	
Horton begins	
3300 Columbia Copper Coil	
coppersmiths	
Columbia Distrs plmbg sups	
Northwest Brass Fndy Co	
EL 4532	
Port Mach Wks EL 4532	
Sling Shop wire rope mfrs	
3310 Am Bag & Salvage Co	
junk dlrs EL 4844	
3314 Port of Seattle (mtce	
Shops)	
United Transfer Inc SE 5881	
Hinds begins	
3407-35 Pier 24	
Am Merchant Marine	
Library Assn	
Crane Co (whse and shops)	
Natl Cannery Assn EL 5459	
New England Fish Co fish	
hse EL 3155	
Port of Seattle (Spokane St	
Terminal)	
Puckett oC salmon labelers	
EL 4141	
Rath Pkg Co whol meats	
SE 0337	



## E MARGINAL WAY S 1951

Salmon Terminals (whse)  
 Salmon Terminals Inc  
 MA 8202  
 Sebastian-Stuart Fish Co  
 whol EL 1477  
 Spokane Street Cold Stor-  
 age Plant  
 Spokane Street Fish Plant  
 cold storage  
 Spokane Street Ice Plant  
 Stokes Crmry Co ice cream  
 mfrs  
 US Dept of Agri  
 (fumigation plant)  
 3420 K & E Brokerage Co food  
 products SE 0985  
 3440 Larkin D E @ AV 6213  
 3451 Westinghouse Elec Corp  
 mfrs MA 0808  
 Spokane begins  
 W Spokane begins  
 3600 Alaskan Copper Wks  
 (shop)  
 3623 Air Reduction Pac Co  
 carbonic gas mfrs MA 3260  
 Pure Carbonic Inc carbonic  
 mfrs EL 8252  
 3626 Albin Mfg Co constr equip  
 MU 1081  
 Sherritt & Headman ship  
 clnrs MA 8101  
 3628 N W Chains & Sprackets Inc  
 MA 8629  
 3631 Bethlehem Pac Coast Steel  
 Corp (sls ofc) AV 1100  
 3636 NW Scaffolding & Equip Co  
 MU 2355  
 3640 Andrews Machy of Wash Inc  
 dlrs SE 7121  
 3660 Castle A M Co steel prod  
 EL 0565  
 3670 Puget Sound Sheet Mtl Wks  
 MA 0176  
 3693 Seidelhuber Iron & Bronze  
 Wks Inc SE 4236  
 3801 Superior Portland Cement  
 Inc mfrs SE 6700

1ST AVE S

1944

**DAKOTA INTERSECTS**

4785ΔRamapo Ajax div of American Brake Shoe Co  
rr supps

ΔAmerican Manganese Steel  
Div of American Brake  
Shoe Co rr supps

ΔKellogg Div of American  
Brake Shoe Co air com-  
pressors

4786ΔSears Roebuck and Co whse

ΔSunbeam Electric Mfg Co  
refrigerator reprs

**Hudson Intersects**

5000-20ΔUnited Motors Service  
whol auto accessories

5001ΔSears Roebuck and Co  
mail order dept whse

5035ΔTimber Structures Inc  
(Speedwall Div) roof  
truss mfrs

5050 International Harvester Co  
whse and parts dept

**Dawson Intersects**

5201ΔPope Machine Co

5204 Bowman Willard G

5206 Scanda Geo

5212 Jurgensen D E

5216ΔStiles Jas A

**Bennett and Brandon intersect**

5421ΔSavage Metal Products

**Lucile Intersects**

1ST AVE S

1944

5505△Russak Harry Truck Parts  
Co

5506△Erickson Roy O

5508 O'Malley Jas

Findlay intersects

5602 Hadaller John L ⊙

5606 Lauritson Arth L

5608 Anton Nichols G ⊙

Orcas intersects

5701 —

5718 Crenshaw Ida Mrs box  
lunches

Mead intersects

5800 Burke Oscar E beer parlor

5805 Rainbow Inn beer parlor

5809 Merritt Thos D

Graves John M ⊙ gro

5807½ Nelson Andrew

Merritt Thos D

5809 Graves John M ⊙ gro

5809½ Taylor Donald E ⊙

Fidalgo, E Marginal way and  
W Michigan intersect

6001 —

6103△Naud Walter S

6201 Fleming Zenaida Mrs

6301-6610 Moorings

6301△Aldridge Josephine A ⊙

McCourry Frank R ⊙

Frederickson Oscar ⊙

6305 —

6309 Kotinas Spiros

6313 Cressy Elva

Orosco Paul

6313½ Lovell Chas B

6315 Raunio Carl L ⊙

Allard Henry

6317 Anderson Ole

6321 Backlund Peter J ⊙

6323 Anderson Sam ⊙

6325 Sillman Hugo ⊙

Kaelberg E

6327½ Brooks Wm D

6339 Elton Louis ⊙

6610 Bacon Wm S ⊙



## ALASKAN WAY S 1944

**ALASKAN WAY, S—Fr ft Yes-  
ler way s**

101△Waterfront Fish & Oyster  
Co whol and ret

△Pier 50

△Alaska Steamship Co

108△Buchanan Auto Freight

110△Draper Engine Works Co  
machs

112△Western Cartage Co  
transfer

114△Commercial Warehouse

△Commercial Merchandising  
Co food brokers

116△Lowman & Hanford Co  
whse

Washington begins

— City Harbor Dept patrol

201△Harbor Island Ferries

△Pier 49

△Sellen Peter P fish bait

Halibut Liver Oil Producers  
whol

## ALASKAN WAY S 1944

## ALASKAN WAY, S—Contd

205△Gutberlet Laboratories  
     chemists  
 207△Tug Tavern  
 208 —  
 209 B & M Lunch restr  
 210△Siegel Max 2d hd hdw  
 211 Parking Inc holding co  
     Terminal Parking Lot No 1  
 212△O K Hotel lodgings  
 214 US Coast Guard whse  
 216 —  
 220½ Boston Hotel lodgings  
 221 —  
     W Main ends  
 ft Pier 48  
 △McCormick Steamship Co  
 ft △Pier 47  
     Pacific Coast Terminals  
 304△A B C Storage Co  
 △Clark's Auto Freight  
 △Hutchings Fast Freight Inc  
 △Whidby-Camano Auto  
     Freight  
 △Dunsford's Auto Freight  
 △Waters Round Oak Co fur  
     naces  
 △Hood Canal Auto Freight  
     Jackson begins  
 △Pier 46  
 △Luckenbach Steamship Co  
     claim eng and operating  
     depts  
 △Puget Sound Salmon Egg  
     Co  
 411△Pier D Cafe  
 413△Commercial Welding Co  
 417△Art Brass & Plating Works  
 420△Auto Gas & Supply Co  
     Miles Co  
 425△Rothschild-International  
     Stevedoring Co shop  
     King begins  
 ft King△Pier 45  
 △Washington Tug & Barge  
     Co  
 501 King Street Dock Parking  
     Service auto parking  
 525△Pier 44  
 △Matson Navigation Co  
     dock ofc  
 △Matson Terminals Inc  
 549 Pacific Lunch restr  
 563△Pacific Coast Coal Co  
     retail office  
     Dearborn begins  
 —△Pier 43  
 811△Pacific Coast Railroad Co  
     supt's ofc frt depot and  
     shops  
 831△Rivers & Girten gas sta  
     Charles intersects  
 △Pier 42  
 1041△Seattle Port of Em-  
     barkation  
 △Pier 39  
 1049△Seattle Port of Em-  
     barkation  
 △Pier 38  
     W Atlantic intersects  
 1519△Seattle Port of Em  
     barkation (US Army)  
 △Pier 37  
 △Pier 36  
 △Pier 35  
     W Massachusetts intersects  
 1707△Carman Mfg Co furn mfrs  
 1738△Tide Water Associated Oil  
     Co whol  
 △Pier 34  
     W Holgate and W Railroad  
     intersect  
 △Pier 33  
     E Marginal way begins

## E MARGINAL WAY S 1944

MARGINAL WAY, E—Fr June  
 Holgate and S Alaskan way s  
 1901-35△Standard Oil Co of  
     Calif plant  
     △Pier 32  
 2201△McClanahan Bros gas sta  
     △Standard Stations Inc tire  
     whse  
 2241△Marginal Way Market gro  
     Sea Hag Tavern  
 2251△Seattle Hardware Co whse  
     ft W Stacy△Pier 31  
     W Stacy begins  
 2401△Pier 30  
 2431△US Engineers Wharehouse  
     No 3  
 2437△Pier 29  
     W Lander begins  
 2711△DeVotr Claude T gas sta  
 2731△Pier 28  
     US Army  
 2751△Pier 27  
 2765△Strand Cafe  
     Harlin Ellen Mrs ©  
 2901△CMSP&PRRCo marine  
     dept  
 2917△Isaacson Iron Works  
     △Pier 26  
     Hanford begins  
 ft△Hanford Street Grain Ele-  
     vator  
     △Kerr Gifford & Co Inc  
     grain exporters  
 3203 American Merchant Marine  
     Library Assn  
 3205△Larry's Tavern restr and  
     beer parlor  
 3215-25△Hanford Street Terminal  
     △Pier 25  
     △Horner Jack Co salmon  
     labelers  
     Horton begins  
 3300△Kazian Brass Foundry  
     △Olympic Machine Works  
 3310△Trotsky Bros salvage  
 3314△Port of Seattle Shops  
     △Marine Service ship re-  
     conditioners  
     Hinds begins  
 3407-35△Spokane Street Terminal  
     (Port of Seattle)  
     △Pier 24  
     △Spokane Street Ice Plant  
     Spokane Street Fish Plant  
     Spokane Street Cold Storage  
     Plant  
     △Coastwise (Pacific Far  
     East) Line ss line  
     △US Dept of Agriculture—  
     Bureau of Entomology  
     and Plant Quarantine Fu-  
     migation Plant  
     △National Cannerns Assn  
     (laboratory)  
     △Salmon Terminals whse  
     △Sebastian Stuart Fish Co  
     whol  
     △Puckett Co The salmon  
     labelers  
     △Rath Packing Co whol  
     meats  
     △Stokes Creamery Co ice  
     cream mfrs  
 3410△Crane Co garage and shops  
 3451△Westinghouse Electric &  
     Mfg Co  
     △Westinghouse Lamp Div of  
     Westinghouse Elec & Mfg  
     Co  
     Spokane and W Spokane begin  
 3600△Alaskan Copper Works  
 3623△Air Reduction Sales Co  
     △Pure Carbonic Inc  
     △Wilson Welder & Metals  
     Co  
 3628△Eagle Metals Co Inc whol  
     △Economy Irrigation Co  
     lawn sprinklers  
 3631△Pnget Sound Sheet Metal  
     Works  
 3861△Superior Portland Cement  
     Inc plant



1ST AVE S 1940

**Dakota intersects**  
 4785△Ramapo Ajax div of Am-  
 erican Brake Shoe &  
 Foundry Co rr supps  
 △American Manganese Steel  
 Div of American Brake  
 Shoe & Foundry Co  
 4786△Sear Roebuck and Co whse  
**Hudson intersects**

5001 Vacant

5035△Speedwal Co The fibre  
 board mfrs

**Dawson intersects**  
 5201△Pope Machinery Co  
 5204 Davis Ethel B Mrs ©  
 5216 Tyler Estel R  
**Bennett, Brandon and Lucile in-  
 tersect**

5506 Vacant

5508 Drisko Harry B

**Findlay intersects**

5602 Wilson Philip H

5606 Beinke Leon W

5608△Gray Patk J

**Orcas intersects**  
 5701△Harris Bros gas sta

**Mead intersects**  
 5800 Burke Elof O beer parlor

1ST AVE S

1940

5805 McPhillips Martha Mrs  
beer parlor

5806 Winterhalter Naomi Mrs

5807½ Nelson Andrew

5809△ Domini Guiseppi gro

5809½ Green Axel

Hyatt Homer

**Fidalgo, E Marginal way and  
W Michigan intersect**

6001 Blewer Fred

6301-6610 Moorings

Bacon Wm S

Burman John ◎

Carter John W ◎

Cederholm Geo

Chase Elmer E ◎

Clark John E

Cressey Elva Mrs

Dahl Gust E ◎

Davis John A

Elton Lahri

Haigh Frank J

Harterich Henry ◎

Johnson John W

Kallberg Ernest L

Maki Eli

McGowan Wm J

Pappas Geo J

Raunio Carl L

Samuelson Saml H

Silman Hugo N

Tirva Arnie

Wold Fannie Mrs

Wold Martin jr ◎

**W Myrtle intersects**

7152 Holmes Jesse J

**W Marginal way intersects**

**Kenyon begins**

## ALASKAN WAY S 1940

**ALASKAN WAY, S—Fr ft Yes-  
ler way s**101△Waterfront Fish & Oyster  
Co whol and ret

105△Hunt's Pier One Cafe

108△Buchanan Auto Freight

110△Draper Engine Works Inc  
machs

111△Main Fish Co whol

112△International Ocean  
Express System Inc114△Acme Steel Co box strap-  
pings

△Valentine Co mfg chemists

115 Colaizze Geo barber

116△Lowman & Hanford Co  
whse117△Salt Air Cafe restr  
Washington begins**ft Pier A**

Sellen Peter fish bait

205△Gutberlet Laboratories

207△Tug Tavern beer parlor

208△People's Supply Co hdw

209 B &amp; M Lunch restr

210△Siegel Max 2d hd hdw

212△O K Hotel

Rakow Walter C

214 Vacant

216 Scher Nathan hdw

220½ Boston Hotel lodgings

221 Shell Oil Co gas sta

**Main begins****ft Pier B**△McCormick Steamship Co  
Pacific-Argentine-Brazil  
Line**ft Pier C****Pacific Coast Terminals**

△Pacific Coast Co The

Pacific Coast Coal Co

Pacific Coast Cement Co

Pacific Coast Engineering  
Co

Pacific Coast Railroad Co

△Morton Salt Co

304△A B C Storage Co

△California Cotton Mills Co  
mfrs

△Clark's Auto Freight

△Dil Marshall mfrs agts

△G &amp; W Auto Freight

Martin Hoyt & Milne mfrs  
agts



## ALASKAN WAY S 1940

<p>           ΔVal-Vita Food Products Inc            ΔWhidby-Camano Auto Freight            ΔDunsford's Auto Freight            ΔWaters Round Oak Co furnaces            ΔHood Canal Auto Freight Jackson begins            ft ΔAcheson Terminals Inc whse DuBois Soap Co            Pier D            Luckenbach Dock            ΔLuckenbach Steamship Co claim eng and operating depts            ΔPuget Sound Salmon Egg Co            403 ΔUnion Oil Service gas sta            411 ΔBee's Corner Cafe            413 ΔCommercial Welding Co            417 ΔArt Brass &amp; Plating Works            420 Auto Gas &amp; Supply Station            425 ΔRothschild-International Stevedoring Co shops            ΔSteamers Service wharfingers whse            King begins            ft King Street Dock            ΔWright &amp; Smith Machine Wks Inc cannery machy mfrs            Seattle Copper Shop copper-smiths            ft ΔOlson Boiler &amp; Welding Works            ΔMarine Electric Co elec contrs            Darst Delbert J acct            501 ΔAmick H Sheet Metal Works            503 Vacant            525 ΔUnion Pacific Dock            ΔMatson Navigation Co dock ofc            Matson Terminals Inc            549 Pacific Lunch restr Allison Irwin F ©            563 ΔPacific Coast Coal Co retail office            811 ΔPacific Coast Railroad Co depot            ΔPacific Coast Railroad Co Shops            Pacific Coast Engineering Co            831 ΔPacific Coast Coal Co gas sta            833 ΔWestern Cafe            Charles intersects            ΔSeattle Fire Dept No 40            925 Hooverville            949 ΔTeamsters &amp; Truck Drivers Union No 174 hiring hall            965 ΔSilver Spot restr            ΔFender A Freight Lines auto frt            1041 ΔHighway Freight Depot            ΔHogland Transfer Inc depot            Coast Transit Inc auto frt            Pillsbury Flour Mills Co            ΔColletti Fast Freight auto frt            ΔMount Vernon Transfer Co auto frt            Tacoma Auto Freight Co depot            North Counties Freight Lines auto frt            Busy Bee Transfer Co depot            ΔWenatchee-Seattle Transport Co auto frt            1049 ΔGoodrich B F Co The whol tires and rubber gds            ΔGoodrich Footwear Division Hood Rubber Co Inc footwear         </p>	<p>           Brunswick Tire Corp whol            Diamond Rubber Co whol tires            Miller Rubber Co tires whol            Connecticut intersects            ft Connecticut Street Dock            1203 ΔKohl &amp; Kohl gas sta            1215 ΔCastle A M &amp; Co whse            1225 ΔKeystone Steel &amp; Wire Co            1241 ΔFox M Ewing Co kalso-mine mfrs            ΔFrance Packing Co The Paramount Mfg Co whol oils            ΔPeter Cooper Corporations glue mfrs            United States Gelatine            ΔRothweiler &amp; Jackson gas pumps and compressors            ΔFrankfort Distilleries Inc            ΔThompson Guy M mfrs agt            Tokheim Oil Tank &amp; Pump Co            ΔMerchants Transfer &amp; Storage Co            1255 ΔEllis Automotive Service auto reprs            ft W Atlantic            Atlantic Street Terminal            ΔPacific Water Works Supply Co            1519 Pacific Terminals Building            Jackson Savvoe shoe shiner            Myers W S barber            Northwest Motor Freight Bureau            ΔOlympic Steamship Co Inc            ΔPetroleum Navigation Co            Zatarain Victor W cigars            Rooms:            200 ΔPacific Terminals Inc            202 ΔRetail Fuel Dealers Assn            205 ΔSwayne &amp; Hoyt Ltd s s agts            300 Peninsula Tariff Bureau            304-05 Vacant            309 ΔU S Coast &amp; Geodetic Survey            311 ΔWashington Highway Freight Tariff Bureau            320 ΔAlaska Southern Packing Co salmon cannery            ΔIntercoastal Packing Co salmon cannery            White Earle V commerce counsel            417 ΔTradewell Stores Inc gro ofc            500 ΔRobinson Trucking Service auto frt            ΔWashkuhn Trucking Co auto frt            501 ΔGasoline Tank Service Corp motor transportation            Street continued            1525 ΔPacific Steamship Cafe            1551 ΔMike's Service Station Pacific Refrigerated Motor Line            1555 ΔCascade Service Stations Inc gas sta            1559 ΔJenkins V S Co insulation contrs            ΔSimon Engineering Co            W Massachusetts intersects            1707 ΔCarman Mfg Co furn mfrs            1733 ΔTide Water Associated Oil Co whol            ΔYoung Fred J gas sta            ALBERT PLACE—Fr 3300 Brygger dr nw            ALBION PLACE—Fr 1000 blk N 34th n            3410 Dux Fred A         </p>
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## E MARGINAL WAY S 1940

Malan Clifford	3623△Air Reduction Sales Co
McKenzie Jack D	△Pure Carbonic Inc
Nelson Hulda A Mrs	△Wilson Welder & Metals Co
Peterson Oscar	3628△Eagle Metals Co Inc whol
Ringstad Earl	△Economy Irrigation Co
Sandevik Martin T	3630 Houseboats
Smith Geo E	Hangas John
Watson Donald E	Kauzlarich Geo
Watson E E	Meins Hermann
Willis Frank	Palo John
Wirkkala Emil A	Peterson Peter A
	Redelsperger David
	Sangwin Peter
	Torlson Nels
	3631△Puget Sound Sheet Metal Works
	3801△Superior Portland Cement Inc plant
	3805 Monan T F
	3808 Miner Peter
	Dakota and W Dakota begin
	4100△Centennial Flouring Mills Co whse
	4101 Houseboats
	Allard Hypolite
	Anderson Chas J
	Angelus Michl
	Downey Chas W
	Elston I Wm
	Engstrom Victor
	Gill Herbert P
	Greene Oscar L
	Haglund Alex
	Heikki Kukkonen
	Hillis Jas F
	Jensen Carl J
	Johnson Ernest
	Johnson John C
	Jorgenson Ole
	Kammone Jonas
	Kelley Mary Mrs
	Knutson Osmund
	Lester John
	Marsh Bernard K
	Matson Matt
	McKenzie Chas
	Michelson Axel
	Miller Edw
	Nelson Oscar
	Olson Adolph
	Peterson John I
	Prosi Emil
	Rae John
	Schell Chas P
	Shields John J
	Sundquist Carl J
	Terrill Edw R
	4111 Korkiara Karl
	Munson Eric C
	Randall Fred H
	Ulvinen John A
	4117 Vacant
	4402 Christofferson Carl
	4403 Boskey Saml
	Harrington Wm J
	4404 Lefcoski Boleslau
	4406 Carlson Nick
	Massingale Horace L
	4407 Curtis Harry
	Moses John
	Nelson Chas
	Williams Anna M Mrs
	4408 Erickson Gunnar
	4409 Cop Andrew
	Peters Katie Mrs
	4410 Hendrix Martin L
	Miller J Henry
	Sheharsh Ambros
	4412 Junte John
	Wall John H
	4413 Oreb Vince
	4421 Paxman Albert A
	4634△Western Containers Inc
	paper box mfrs
	4660△York Ice Machine Corp
	4700△Petro Paint Mfg Co

**MARGINAL WAY, E—Fr Junc  
Holgate and S Alaskan Way s**  
—△Standard Oil Co of Calif plant

2201△McClanahan Bros gas sta  
2241△Backer Martin beer parlor and gro

2251 Seattle Hardware Co whse  
Stacy Street Dock

**W Stacy begins**  
2421 Lander Street Dock

American-Hawaiian Steamship Co dock

2431-39 Washington State Liquor Control Board whse

**W Lander begins**  
2715△Lifeboat Tavern beer parlor

Randolph Floyd ©

2731△Milwaukee Ocean Dock  
△Dodwell Dock & Warehouse Co Inc

2765△Strand Cafe  
Wood Ellen Mrs ©

2901△Milwaukee Car Ferry  
2917△Isaacson Iron Works

2959△Shipyard Service Station gas sta

**Hanford begins**  
3203 Marine Library

American Merchant Marine Library

3205△Gillis Larry restr and beer parlor

3215-25 Hanford Street Terminal  
△Norton Lilly & Co dock ofc

△Hanford Street Grain Elevator

**Horton begins**  
3304△Associated Auto Body & Fender Works reprs

3306 Trotsky Bros 2d hd gds

3314△Port of Seattle Shops

**Hinds begins**  
3410△Crane Co garage and shops

3411-35△Spokane Street Terminal (Port of Seattle)

△Spokane Street Ice Plant  
Spokane Street Fish Plant

Spokane Street Cold Storage Plant

△US Customs Inspector ofc  
△Reardon Co of California whol paints

3411△New England Fish Co whol

3415△Sebastian-Stuart Fish Co whol

3431△Puckett Co The salmon reconditioners

3433△Rath Packing Co whol mts

3435△Stokes Creamery Co ice cream mfrs

3443△Ketcham Wire & Manufacturing Co wire prods and tying machs

3451△Westinghouse Electric & Mfg Co whse and serv dept

**Spokane and W Spokane begin**  
3600△Alaskan Copper Works

3614△Acme Tool Works logging tools

## **APPENDIX F**

### **EDR AREA/CORRIDOR REPORTS (Available Upon Request)**