

Division Director: Julius Rwamashongye  
2019 Roadway Structures  
Annual Report for 2018



# CAPITAL PROJECTS & ROADWAY STRUCTURES



**Seattle**  
Department of  
Transportation





SR520 Pontoon goes through Fremont Bridge



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COVER PHOTO: Stairwell connecting 38th Ave SW to SW Edmunds St.

REAR COVER PHOTO: Stairwell connecting S Alaska Pl to Mountain View Dr S.

# EXECUTIVE SUMMARY



# EXECUTIVE SUMMARY

The Seattle Department of Transportation (SDOT) Capital Projects and Roadway Structures Annual Report provides information about SDOT's key structural assets: bridges, retaining walls, stairways, and areaways. It also highlights capital improvement projects that were completed or underway in 2018. Combined, these assets represent over \$8.3B in replacement value.



**124**

Bridges

**\$6.85B**



**613**

Retaining walls

**\$1.2B**



**502**

Stairways

**\$72M**



**238**

Areaways

**\$189.5M**

Through careful management, Capital Projects and Roadway Structures maximizes investments in Seattle's transportation infrastructure, preserves existing facilities, manages capital improvements, and maintains and operates these assets to provide a safe and reliable transportation system for the traveling public.



Seawall Tide Line Markers



## Making capital improvements to transportation structures ensures these assets remain safe and available to the traveling public.

This Annual Report summarizes the inventory, condition, operation, and maintenance of 124 bridges, 613 retaining walls, 502 stairways, and 238 areaways.

Roadway Structures operates SDOT's 4 movable bridges, 3 of which are along the Lake Washington Ship Canal and 1 of which crosses the West Duwamish Waterway. In addition, it operates the South Park Bridge, which is owned by King County. Bridge Operations staff comply with Coast Guard regulations by ensuring that these 5 movable bridges are available for vessel openings 24 hours a day, 7 days a week. The Fremont Bridge and the Ballard Bridge are over 100 years old—a testament to the extended life a bridge can have when we invest in maintaining our infrastructure.

Roadway Structures considers many factors before recommending a structure for replacement, including a detailed “element-level” condition assessment—in compliance with Federal Highway Administration (FHWA) guidelines—that compares the condition of the structure to other bridges throughout the U.S. This assessment, along with other local factors, provides a prioritization process that fits within SDOT's vision and goals, particularly to ensure public safety.

2018 marks the third year of the Levy to Move Seattle (LMS) approved by Seattle voters. The LMS has provided additional funding to help reduce the backlog maintenance work on transportation structures. With over \$1.3B in unfunded structure replacement needs, extending the life of existing bridges is important to keep our transportation system functioning at full capacity while making investments in new infrastructure. The LMS



Elliott Bay Seawall

will help to advance this goal; however, bridges will not last forever, and replacement of aging bridges should be planned proactively. For more information on the LMS and funded programs, visit: [performanceseattle.demo.socrata.com/stat/goals/kppg-md9g/](https://performanceseattle.demo.socrata.com/stat/goals/kppg-md9g/).

In addition to summarizing work by Roadway Structures, this annual report also highlights key projects and achievements from our Capital Projects group. In 2018, Capital Projects achieved 14 in-house designs, managed 36 projects with an awarded contract value of \$124M, completed processes for over \$700M of capital investments, and managed approximately 80 active projects. Capital Projects supports a variety of SDOT programs, including Neighborhood Greenways, Vision Zero, Safe Routes to School, Neighborhood Street Fund, and the Bicycle Master Plan.

To learn more about the Capital Projects group and our progress on many more projects, visit: [capitalprojects.seattle.gov/projects](https://capitalprojects.seattle.gov/projects).



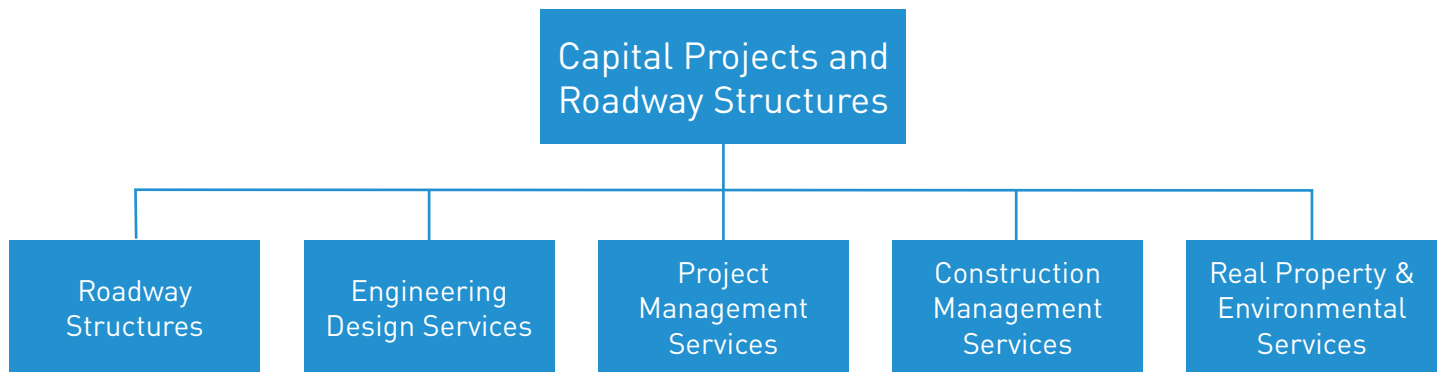
# INTRODUCTION



# INTRODUCTION

Capital Projects and Roadway Structures' (CPRS) mission is to preserve existing infrastructure and manage capital improvements, while maintaining and operating bridges, retaining walls, stairways, and areaways to provide safe and reliable transportation structures and make the most of Seattle's investments in transportation.

There are 4 sections within the Capital Projects group: Engineering, Construction Management, Environmental/Right-of-Way, and Project Management. There are 3 sections within the Roadway Structures group: Bridge Engineering, Bridge Maintenance, and Bridge Operations.



Stairway Installation



Inspection of Seattle City Light Infrastructure



## Capital Projects Group Overview

### ENGINEERING

The primary purpose of Engineering Services is to produce plans, specifications, and estimates for our Capital Projects group. We provide in-house design for traffic signals and street lighting, roadways and sidewalks, curb ramps and ADA compliance, and much more. We offer technical assistance where necessary and serve as contract managers on over 20 on-call contracts. In addition to CPRS, we support many divisions and agencies, including the Project Development Division, Policy and Planning, Street Use, Office of the Waterfront, Office of Move Seattle, Seattle City Light, and Seattle Public Utilities. We also perform quality control and process management, working in accordance with the CPRS Project Roadmap, CPRS Quality Control and Quality Assurance Guide for In-House Design Projects, and the Washington State Department of Transportation (WSDOT) Local Agency Guidelines, where applicable.

In 2018, we advertised 14 in-house design led projects for construction, with a total construction value of over \$30M. We also expanded our in-house bridge load rating capability, completing 6 projects. We worked diligently to provide technical support for the Department and the City, facilitated over \$3M in work authorizations through on-call contracts, served as technical leads on the Waterfront Seattle, Sound Transit 3, SR99 Demolition, Decommissioning, and Surface Street Project, and SR-520 projects, and executed an on-call technical service agreement with SPU for structural engineering support. Our team continues to develop and grow, and we recognized 2 employees for 25-year and 30-year service awards, respectively. We also had 2 team members receive the 2018 Shining Star

Award, and another member was selected to participate in the 2019 National Bike Summit in Washington, D.C.

### CONSTRUCTION MANAGEMENT

The Construction Management Services team manages construction of roads, bridges, sidewalks, areaways, landslide repairs, landscaping, traffic signals, lighting, trails, and more. We administer construction contracts, including inspection and documentation, and ensure adherence to contract requirements. We manage construction projects for many divisions within SDOT, including CPRS, Office of the Waterfront, Policy & Planning, Traffic Management, and Street Maintenance. Within those divisions, we manage a variety of project types, including Arterial Asphalt and Concrete, sidewalk pedestrian programs, Safe Routes to School, Bridge Programs (new, retrofits, paint and maintenance), Trail Construction and Rehabilitation, Neighborhood Street Fund projects, Neighborhood Greenways, and Utility Maintenance and Upgrades. The Utility Maintenance and Upgrades allow us to support several partner agencies, including King County Metro, Seattle Public Utilities, Seattle City Light, and Puget Sound Energy.

In 2018, we managed 36 projects with an awarded contract value of approximately \$124M. We experienced a nearly 70% increase in both the number of individual contractor payments made as well as the total dollar amount of all those payments. We documented and processed 272 individual contractor payments totaling nearly \$78M. We also managed approximately 15-20 active projects and an additional 15-20 projects in pre-construction or close-out phase at a time.

## ENVIRONMENTAL / RIGHT-OF-WAY

Both the Environmental Services and Real Property teams engage members of CPRS and the Project Development Division and are involved in the planning, design, and construction processes, though in different ways. The Real Property team acquires all real property needed for capital projects, drafts legislation for City Council acceptance of real property acquired, processes dedications and easements for private developers per the City's land use code and responds to property research requests. The Environmental Services team conducts National Environmental Policy Act and State Environmental Policy Act review and compliance for capital projects, and some projects led by other divisions. We also obtain environmental permits from Seattle Department of Construction & Inspections, King County, and applicable state and federal agencies, as well as manage SDOT's stormwater compliance program.

Together, these service teams completed right-of-way (ROW) and environmental processes for over \$700M of capital project investments in 2018, including Waterfront Seattle, Fairview Ave N bridge, Northgate Pedestrian Bridge, and acquired 95 parcels. The Real Property team processed over 100 dedications and easements for private developers and initiated a new process to bring innovative ROW management software to SDOT. The Environmental Services team organized a Certified Erosion and Sediment Control Lead (CESCL) training for 40 staff from SDOT, Seattle Public Utilities, Seattle Department of Construction & Inspections, and the Seattle Parks and Recreation.

## PROJECT MANAGEMENT

Our Project Management team consists of 25 project managers who manage a wide range of transportation capital projects within various programs. Examples include projects that support Roadway Structures, Transit+Multimodal, Vision Zero, Bicycle Master Plan, Safe Routes to School, Neighborhood Greenways, and AAC. Depending on the size and complexity of the projects, project managers may manage 1-4 capital projects at any one time, each of which may be at a different phase of the project lifecycle.

In 2018, the Project Management team managed approximately 80 active capital projects that were at different stages of development including Project Definition, Design, and Construction. Approximately 30 of these projects reached Substantial Completion in 2018. Our Project Management team has members who also serve as program managers for various transportation programs within SDOT. Our program managers work closely with SDOT program owners and asset owners to support development of their annual budgets, spending plans, and funding plans. Our program owners also provide early project concept development as well as preliminary cost estimating and schedule development.



## Roadway Structures Group Overview

The Roadway Structures Group has a 66-person staff comprised of engineers, skilled trade persons (mechanics, electricians, carpenters, installation maintenance workers), and bridge operators. Our responsibilities include:

Budget programming and management

- › 2018 approved Operations & Maintenance budget ~\$10M
- › 2018 approved Capital Improvement Program budget ~\$8M

Asset inspection and maintenance for a structural inventory with a replacement value of ~\$8B, comprised of:

- › Bridges (fixed and movable, roadway and pedestrian, SDOT, other agency and privately owned), stairways, retaining walls, and areaways (vaulted sidewalks and street walls resulting from regrade efforts in the early 1900s)

Movable bridge operation for:

- › 4 SDOT-owned facilities (University, Fremont, Ballard and Spokane St Swing bridges)
- › 1 King County-owned facility (South Park Bridge)
- › Meeting federal requirements for operation of movable bridges over navigable waterways as administered by U.S. Coast District 13 and as defined under 33 CFR Part 117 U.S. Coast Guard Guidelines

Implementation and management of several capital programs (planning, inspection, design, and construction), including:

- › Levy to Move Seattle
  - › Bridge Seismic Retrofit Phase III
  - › Bridge Rehab and Replacement Phases I & II
  - › Stairway Inspection and Rehabilitation
  - › Structural Work Order Backlog Reduction
- › Non- Levy
  - › Bridge Load Rating
  - › Bridge Painting
  - › Areaways Inspection and Rehabilitation
  - › Retaining Walls Inspection and Rehabilitation
  - › Stairway (maintenance of existing assets)

Permit, design, and agreement review related to existing asset impact or new asset delivery for several other groups, divisions, and other city agencies, including:

- › SDOT (including The Office of the Waterfront)
- › Seattle Department of Construction and Inspections
- › Washington State Department of Transportation
- › Sound Transit
- › King County
- › Alliance for Pioneer Square
- › Puget Sound Regional Council
- › Office of Planning and Community Development

## Race & Social Justice Initiative

CPRS participates in the Race and Social Justice Initiative (RSJI) in several ways. CPRS supports contracting equity and the Women and Minority Business Enterprise (WMBE) Program through strategies delineated in the SDOT 2019 WMBE Outreach Plan. This includes:

- › Providing advanced notice of opportunities for Consulting and Public Works to promote and encourage WMBE inclusive teaming
- › Focusing on scoping of projects to explore approaches to make work more accessible to the WMBE contracting community including unbundling and sizing
- › Attending and speaking at regional outreach events, such as the Alliance Northwest Government Contracting Event, and SDOT-hosted Working with SDOT outreach events which help WMBE firms connect with department staff and learn about procurement methods, products and services that SDOT purchases
- › Implementing the analysis learned from the internal WMBE Advocate trainings as WMBE Advocates

Beyond CPRS' commitment to RSJI as a division, both groups within CPRS also implement RSJI in their own work. The Roadway Structures group implements RSJI in the following ways:

- › Use of WMBE firms for CIP design, construction of major maintenance projects, and provision of other construction-related services
- › Analysis of work order locations for neighborhood equity

The Capital Projects group implements RSJI in the following ways:

- › All capital projects undergo a Racial Equity Analysis early in the planning phase. This includes recommendations on how projects can address existing RSJI issues and identifies opportunities to improve RSJI implementation.
- › We analyze project and infrastructure investments across the City to evaluate gaps in community needs. This process ensures that underserved communities are receiving capital investments fairly and equitably across the City on a large scale.
- › The Capital Projects communications team provides targeted outreach and communication to each community, particularly under-represented communities such as immigrant and refugee communities, for input on our transportation programs and projects. Outreach and communications incorporate RSJI findings and goals, which allow our teams to address racially or culturally sensitive issues and understand the components of each project that are important to the city and impacted communities.
- › Through our contracting, we ensure that small and minority-owned businesses are provided equal opportunity to compete for both consultant and construction contracts. Capital Projects also participates in an outreach event every quarter to share upcoming opportunities with small or otherwise disadvantaged businesses.



# CAPITAL PROJECT HIGHLIGHTS

# CAPITAL PROJECT HIGHLIGHTS

Below are project highlights from the Capital Projects group for 2018. To learn more about Capital Projects and our progress, visit our dashboard: <https://capitalprojects.seattle.gov/projects>.

## ARTERIAL PAVING—6TH AVE

We paved 6th Ave from Stewart St to Yesler Way with asphalt to repair and seal seams and cracks in the surface. These improvements extend the life of the pavement, which reduces future maintenance costs. We also upgraded curb ramps and made sidewalk improvements at various locations along 6th Ave.

RIGHT: Sidewalk reconstruction at 6th Ave and Columbia Street



## BICYCLE MASTER PLAN—2ND AVE PROTECTED BIKE LANE NORTH EXTENSION

We extended the existing protected bike lane on 2nd Ave in Center City from Pike St to Denny Way. We also added 3 new signals along 2nd Ave at Clay St, Cedar St, and Vine St to add predictability for people walking, biking, and driving. These improvements enhance safety, offer a smoother travel experience for all users, and provide an intuitive north-south route for those biking through downtown.

RIGHT: Installation of new signal at 2nd Ave and Bell St





## ALLEY ACTIVATION—NORD ALLEY

We removed dumpsters and repaved Nord Alley as part of our efforts for “Alley Activation” to restore alleys to historic usages as pathways, public spaces, and commercial hubs. We even hosted a number of the 2010 World Cup soccer matches in the alleyway! The outcome was a safer and revitalized environment that engages both the community and businesses.

RIGHT: Nord Alley after restoration improvements



## NEW SIDEWALKS—SAFE ROUTES TO SCHOOL —RAINIER VALLEY ELEMENTARY

We created safer, accessible walking routes at several locations near Rainier View Elementary as part of our Safe Routes to School program. We selected 8 intersections to make crossing improvements, including curb ramps and curb extensions. These improvements enhance safety and encourage kids, families, and neighbors to walk and bike to Rainier View Elementary School. We also partnered with local organizations to promote an educational curriculum for safety around walking and biking and coordinated with Seattle Police Department to increase enforcement efforts.

RIGHT: New curb bulbs along the SRTS route



## NEIGHBORHOOD STREET FUND—HARBOR AVE SW AND SW SPOKANE ST INTERSECTION IMPROVEMENTS

This project focused on enhancing safety for all users while maintaining transit and freight access. We installed a new curb ramps and a bike-only signal, removed segments of a concrete barrier and some vegetation, and restriped the crosswalk to enhance safety and visibility for people walking and biking.

RIGHT: Intersection configuration looking east before improvements



## BRIDGE SEISMIC RETROFIT—FAIRVIEW AVE N BRIDGE

This project replaces 2 seismically vulnerable parallel bridge structures and addresses notable hazards, including seismic vulnerability, severe deterioration of the timber piers, and shear cracking on the support end of the east bridge's girders. A new, single bridge will accommodate a protected bike lane, new walkways for people walking, and 3 vehicle travel lanes. The contract was advertised in November 2018 and construction is planned for 2019.

RIGHT: Fairview Ave N east and west bridge supports



## BRIDGE PROGRAM—S LANDER ST BRIDGE

S Lander St is an essential east-west connection in Seattle's SODO neighborhood. Every day, the street serves people walking, biking, and driving. This important connection closes over 100 times per day for train crossings, causing frequent traffic delays. As the region continues to grow and rail operations expand, this bottleneck is likely to worsen. We are building a bridge over the railroad tracks on S Lander St between 1st Ave S and 4th Ave S that will enhance safety for all users.

RIGHT: Preparing to set a 120' shaft steel reinforcement cage





## BRIDGE PROGRAM—NORTHGATE PEDESTRIAN BRIDGE

The Northgate neighborhood is a major residential and employment destination that continues to grow. The neighborhood is positioned to become one of the region’s most active transit hubs with the completion of Sound Transit’s Link light rail station opening in 2021. Today, Interstate-5 (I-5) divides the neighborhood in two, and the existing transit center is a 25-minute walk from North Seattle College. The new pedestrian bridge will give bridge users a safe, direct route over I-5, connecting the neighborhood and transit systems. In 2018, the design progressed from 60% to 100% in preparation of advertising in early 2019.



Architect rendering of a future Northgate Pedestrian Bridge

## Stairway Rehabilitation Projects

### MOVE SEATTLE

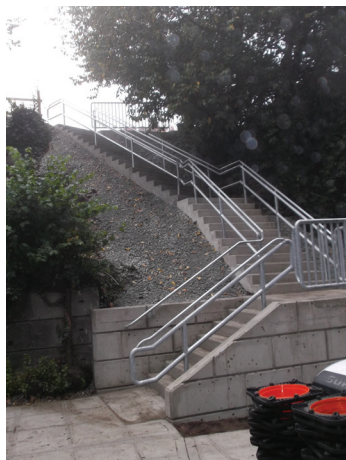
This program rebuilds and/or rehabilitates stairways to the latest standards, adding proper width, step height, grip rail, landings, and other features required by the Americans with Disabilities Act. In 2018, we rehabilitated or rebuilt stairways at 6 locations throughout the city.

### 2018 STAIRWAY REHABILITATION PROJECT LOCATIONS

- › S Horton St between Cascadia Ave S and Sierra Dr S
- › SW Willow St between California Ave and 42nd Ave SW
- › SW Hill St Between 42nd and California Ave SW
- › S Lane St between Lake Washington Blvd S and 35th Ave S
- › W Lynn St between Thorndyke Ave W and 26th Ave W
- › N 88th St between Burke Ave N and Meridian Ave N

BELOW: Before and after photos of stairway rehabilitation.

LEFT TO RIGHT: SW Hill St between 42nd Ave SW and California Ave SW before; SW Hill St between 42nd and California Ave after; S Lane St between Lake Washington Blvd S and 35th Ave S before; S Lane St between Lake Washington Blvd S and 35th Ave S after



**BRIDGES**



# BRIDGES

## Inventory

We have a varying level of responsibility for nearly 317 bridges. Not all of these bridges are within city limits.

- › We have sole ownership of and full maintenance responsibility for 124 bridges
- › We perform partial maintenance and inspection on 48 bridges
- › We perform inspection on 76 structures in public right-of-way that are owned by other agencies or the private sector
- › We perform reimbursable inspection on 58 bridges on behalf of other agencies

## Inspection

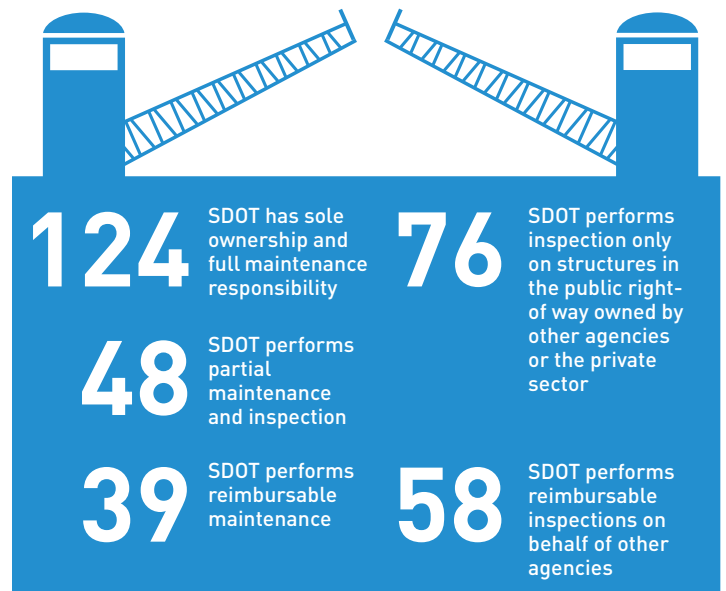
Federal law 23 CFR 650 defines National Bridge Inspection Standards and requires public agencies to perform a routine inspection on all bridges at least once every 24 months. However, bridges that are significantly deteriorated are inspected more frequently to give us the most current condition data and as mandated by City ordinance as a matter of public safety. We also monitor several structures electronically in real time to ensure public safety. In addition to routine inspections, some bridges require other inspections—such as Underwater Dive Inspections every 5 years to check their submerged components.

## BRIDGE INSPECTIONS COMPLETED IN 2018

- › **205** Total Inspections
- › **122** other agency or private bridges
- › **83** SDOT-owned bridge inspections:
  - › **8** fracture critical
  - › **3** underwater
  - › **2** specials
  - › **3** electronically monitored
  - › **17** using an Under Bridge Inspection Truck (UBIT) for access

## BRIDGES BY COUNCIL DISTRICT

District 1	22	17.7%
District 2	21	16.9%
District 3	14	11.3%
District 4	12	9.7%
District 5	15	12.1%
District 6	13	10.5%
District 7	27	21.8%
<b>Total</b>	<b>124</b>	<b>100%</b>



## General Condition

We appraise bridge conditions by using a bridge management system and following guidelines prescribed by the Federal Highway Administration (FHWA) and the Washington State Bridge Inspection Manual. We inspect a variety of elements for each bridge including footings, columns, cross beams, girders, decks, and railings.



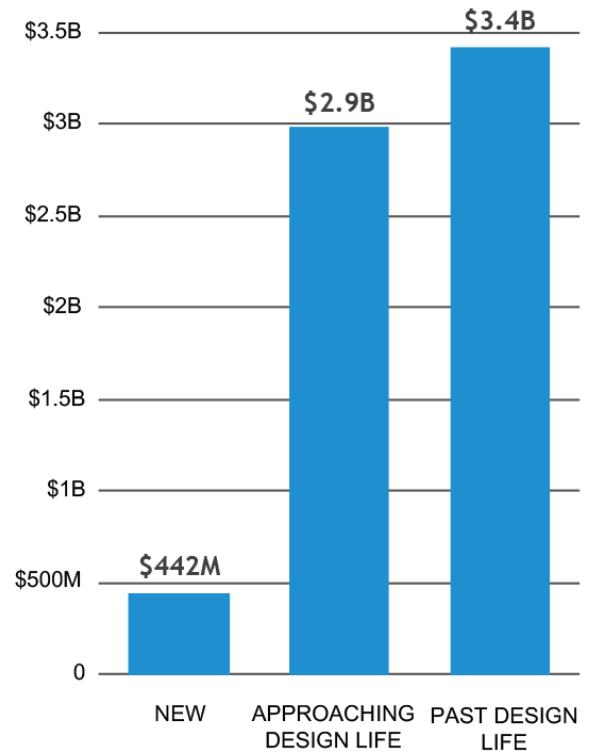
The average age of bridges in Seattle is 59 years old, which indicates that most of Seattle bridges are approaching or have already exceeded their design life.

Each bridge has a sufficiency rating (SR) that is determined by FHWA guidelines. Our average SR is 68.94. The improvement from the 2014 average SR is a result of the work completed during the “Bridging the Gap” funding program. Through “Bridging the Gap” funding, 8% of all bridges in the city are new bridge structures.

FHWA sets standards for 2 types of deficient bridges: Structurally Deficient (SD) and Functionally Obsolete (FO). SD bridges have conditions that may reduce the bridge’s ability to carry normal traffic and have at least 1 major element rated in poor condition. A FO bridge has geometry or clearance aspects that no longer meet current traffic standards.

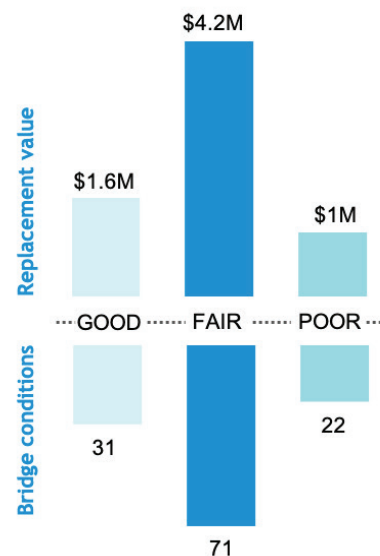
In 2018, 45 bridges were FO and 6 bridges were SD. The chart and graphs below and on the previous page show bridge age, replacement costs, replacement value by condition.

### REPLACEMENT VALUE BY DESIGN LIFE



### BRIDGE CONDITIONS & REPLACEMENT VALUE

Total bridges: 124

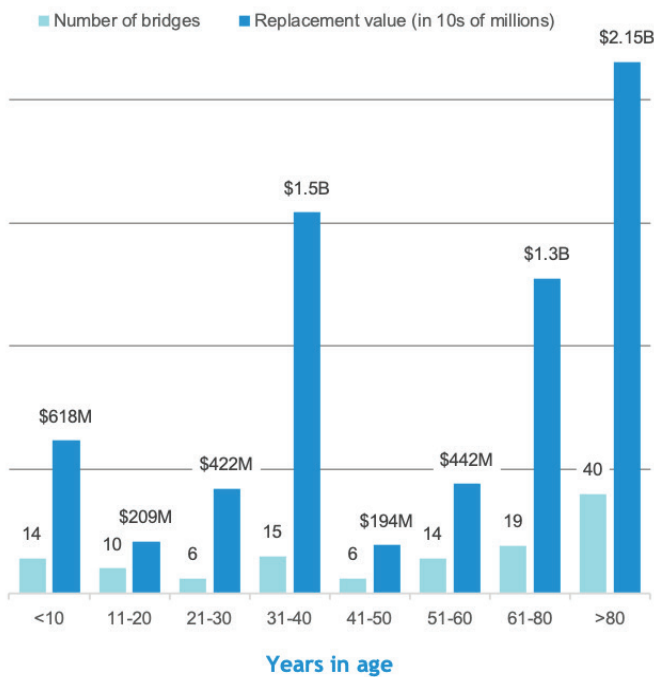




To prioritize replacement or rehabilitation projects, Roadway Structures has developed a Structure Rating Code, which is a weighted combination of the SR and Project Rating Criteria (PRC). PRC includes additional local factors that are not part of the FHWA guidelines, such as public safety, preservation of public investment in infrastructure, regional equity, and economic impacts.

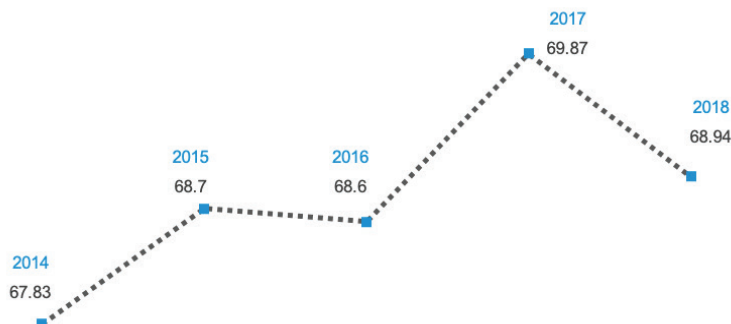
A bridge's age is often an indicator of its relative condition. The average age of bridges in Seattle is 59 years old, which indicates that most of Seattle's bridges are either approaching or have already exceeded their design life. Bridges constructed 60 years ago were typically designed to last 50 to 60 years.

### BRIDGE REPLACEMENT COST BY AGE



### AVERAGE SUFFICIENCY RATING

Total bridges: 124



TOP TO BOTTOM: Ballard Bridge Operator; Airport over Argo Bridge Inspection; Load Testing on Phinney Ave Bridge; Emerson Seismic Join Grating Replacement

## Moveable Bridge Operations

We own and operate 4 movable bridges. Three of the bridges cross the Lake Washington Ship Canal: Ballard Bridge, Fremont Bridge, and University Bridge. The 4th bridge, the Spokane St Swing Bridge, spans the west waterway of the Duwamish River. These 4 bridges operate 24 hours a day, 7 days a week, 365 days per year.

We also operate and maintain the South Park Bridge on behalf of King County. The bridge is located over the Duwamish Waterway and also operates 24 hours a day all year long.

King County reimburses SDOT for all operations and maintenance costs associated with the South Park Bridge.

The U.S. Coast Guard manages navigable waterways within the United States. Federal law 33 CFR 117, enacted in 1894, requires bridges to be permitted, and, in general, to not restrict navigation. The permits for the Ship Canal bridges allow for a period during peak commute hours when the bridges can remain closed to boat traffic; however, there is no restricted period on the Spokane St Swing Bridge due to the influence of daily tides on vessel navigation.

Overall, there were 14,406 bridge openings in 2018 for all 5 moveable bridges operated by SDOT, or about 39 bridge openings per day.

### MOVEABLE BRIDGE OPENINGS 2014-2018

	2014	2015	2016	2017	2018
<b>Fremont</b>	5,654	5,619	5,686	5,226	5,288
<b>Ballard</b>	4,057	3,836	4,052	3,918	3,984
<b>University</b>	3,255	3,002	2,924	2,787	3,092
<b>Spokane</b>	1,831	1,863	1,747	1,584	1,466
<b>South Park</b>	655	1,146	765	719	576
<b>Total</b>	<b>15,452</b>	<b>15,466</b>	<b>15,174</b>	<b>14,234</b>	<b>14,406</b>





University Bridge



Fremont Bridge



# RETAINING WALLS

# RETAINING WALLS

## Inventory

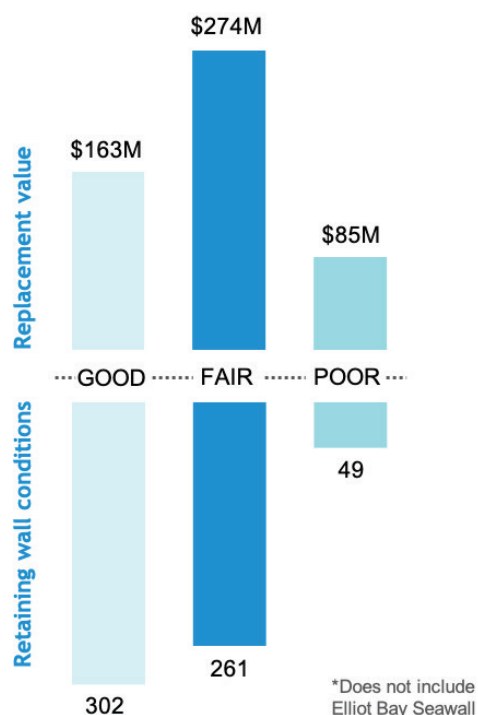
Roadway Structures manages 613 retaining walls and seawalls, valued at \$1.2B. The Elliott Bay Seawall is the city’s longest retaining wall at more than 7,000 feet. Roadway Structures recently replaced the southern half of the Elliott Bay Seawall. Below is a chart that shows where retaining walls are located throughout the city. See Appendix B for a full inventory of retaining walls.

## Inspection & Condition

Roadway Structures aims to inspect retaining walls once every 5 years (compared to every 2 years for bridges). In 2018, Roadway Structures inspected 16 walls, rated retaining wall elements, and assessed the ratings to develop a relative conditions comparison. The chart at right shows the relative condition of SDOT-managed retaining walls.

### RETAINING WALL CONDITIONS & REPLACEMENT VALUE

Total retaining walls: 612\*



### RETAINING WALL REGIONAL STATISTICS

District 1	106	17.3%
District 2	62	10.1%
District 3	112	18.3%
District 4	38	6.2%
District 5	44	7.2%
District 6	48	7.8%
District 7	203	33%
<b>Total</b>	<b>613</b>	<b>100%</b>





Retaining Wall at NE 98th and 20th Ave NE



Inspection at retaining wall on 44th Ave SW, between California Ave SW and SW Austin St



**STAIRWAYS**

# STAIRWAYS

## Inventory

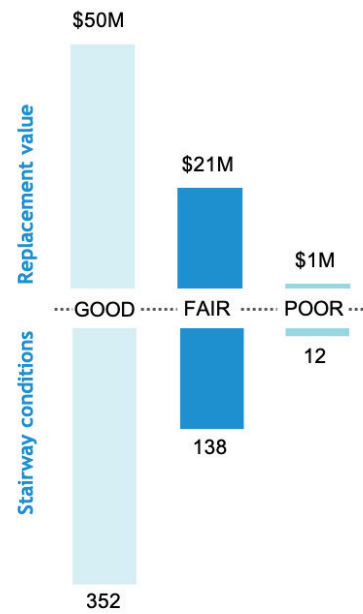
Roadway Structures is also responsible for 502 stairways within Seattle, worth a total of \$72M. For an inventory of stairways, see Appendix C.

## Inspection & Condition

Roadway Structures inspects stairways every 7 years and monitors them for safety and condition. Rating stairway elements allows SDOT to develop a relative condition comparison. Roadway Structures completed 94 stairway inspections in 2018. The chart at right shows the relative condition of SDOT-managed stairways. Over the past 10 years, stairway condition has dramatically improved due to the consistent availability of rehabilitation funding.

### STAIRWAY CONDITIONS & REPLACEMENT VALUE

Total stairways: 502



SW Willow St between California Ave and 42nd Ave SW after replacement



Stairway shown on right as inspected before replacement

### STAIRWAYS REGIONAL STATISTICS

District 1	86	17.1%
District 2	77	15.3%
District 3	106	21.1%
District 4	41	8.2%
District 5	13	2.6%
District 6	32	6.4%
District 7	147	29.3%
<b>Total</b>	<b>502</b>	<b>100%</b>

**AREAWAYS**



# AREAWAYS

## Inventory

We maintain an inventory of 238 areaways. The estimated replacement value of known areaways is more than \$189.5M. For an inventory of areaways, see Appendix D.

Areaways are different than other Roadway Structure assets in that they consist of a combination of structure types and may have multiple owners.

Areaways generally consist of 3 elements: building wall, street wall, and structural sidewalk. The building wall and structural sidewalk are predominately owned by the adjacent property owner, whereas the street wall may either be the responsibility of SDOT or the adjacent property owner.

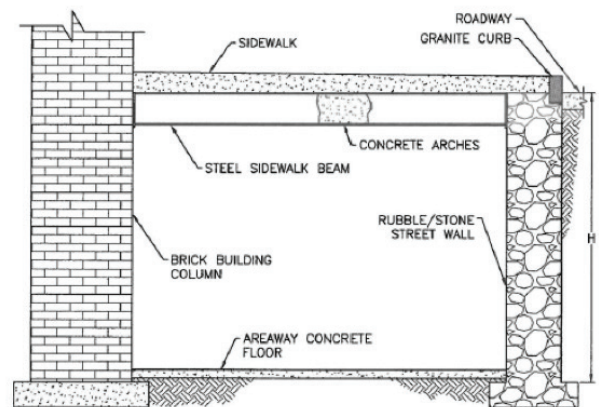
## Inspections & Condition

SDOT has completed inspections on known areaways in the Pioneer Square District and other areaways outside of this district.

Many areaways are over 100 years old and were not built to today's standards. In addition, many have deteriorated to the point where they are much weaker than when they were first built.



Areaway at 1301 1st Ave between University St and Union St



Typical Pioneer Square Areaway schematic

## AREAWAYS REGIONAL STATISTICS

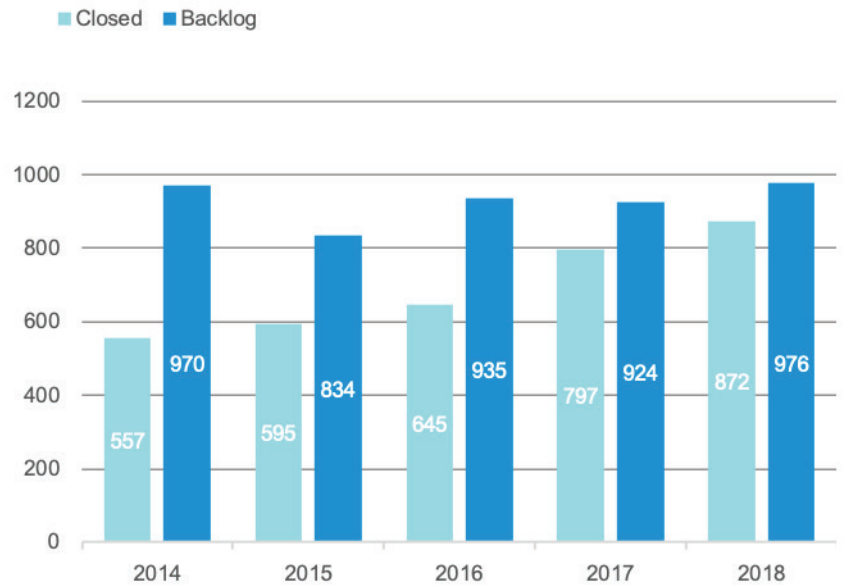
<b>District 2</b>	56	23.5%
<b>District 3</b>	4	1.7%
<b>District 6</b>	1	0.4%
<b>District 7</b>	177	74.4%
<b>Total</b>	<b>238</b>	<b>100%</b>

# WORK MANAGEMENT

# WORK MANAGEMENT

The Roadway Structures Work Management System is used to identify, prioritize, assign, and track repair and maintenance work. This detailed prioritization system ensures that the highest-priority work is completed first. Roadway Structures prioritizes available resources to address critical issues, but is unable to repair all maintenance defects annually, resulting in a backlog of various types of maintenance. As of December 31, 2018, there is a backlog of 976 work orders with a cost of over \$10M.

## WORK ORDER BACKLOG BY YEAR



Light Diablo Dam Bridge Inspection



# EMERGENCY RESPONSE

# EMERGENCY RESPONSE

Roadway Structures crews and engineers are ready to respond to emergency situations 24 hours a day, 7 days a week, 365 days a year. In 2018, crews responded to 72 emergencies. Additionally, Roadway Structures staff participate in the SDOT Incident Management Team and support the department’s Annual Snow and Ice Response. Both of these functions are in

conjunction with the City’s Office of Emergency Management. There was no significant seismic event in 2018 that triggered the post-earthquake bridge inspection program.



## RESPONSES IN 2018

58	Moveable Bridge
7	Structure Maintenance
3	Accident Response
4	Other

Emergency response crews at work.

**FUNDING**



# FUNDING

The Roadway Structures group continues to operate as efficiently as possible despite significant maintenance funding deficits. The total replacement value for all bridges, stairways, retaining walls, and areaways serviced by Roadway Structures is approximately \$8.3B. As an industry rule, prudent annual maintenance expenditures should be equivalent to 1-3% of the total replacement cost for the fixed assets being maintained. Funding, including from the Levy to Move Seattle, has trended around

\$10M per year since 2016. In 2018, Roadway Structures maintenance crews responded to four major movable bridge outages. During the prior 15 years, there had been only one major movable bridge outage. Over the coming years the maintenance funding situation will worsen without a significant increase in funding as a result of new assets coming online from major capital projects such as the redeveloped Seattle waterfront. It is worth noting that the Levy to

Move Seattle is helping with the situation by infusing the maintenance budget with \$2.4M annually (included in the \$10M noted above) for reduction of our work order backlog. Asset maintenance will continue to be a core priority for SDOT.

In 2018, Roadway Structures was also responsible for a \$33M capital improvement program (CIP) budget for installation of new structures (Northgate Pedestrian Bike Bridge and Lander Grade Separation Bridges), replacement of older inventory (Fairview Bridge), and major capital improvements to existing inventory (Bridge Load Rating, Painting, Stairways, Retaining Wall and Areaway Programs). Approximately \$9.2M of this was from the Levy to Move Seattle (Bridge Seismic Retrofit Phase III and Bridge Rehab/Replacement Programs).

Over the past few years, SDOT has added and removed several bridges to its inventory, resulting in a net increase of over 266, 679 square feet of bridge deck.

This additional inventory puts strain on annual non-levy maintenance funds.

# EMERGENT NEEDS & MAJOR PROJECTS

# EMERGENT, UNFUNDED NEEDS & MAJOR INSPECTION AND MAINTENANCE PROJECTS

We have many challenging bridge maintenance needs. Skilled craft crews perform maintenance projects on many of Roadway Structures-managed assets, alongside qualified engineers and engineering technicians who inspect and assess structural assets. The projects highlighted here represent work that goes beyond routine inspection and maintenance and demonstrate ways in which Roadway Structures staff provide high-quality technical and structural work at the best value.

## NORTHLAKE RETAINING WALL

We manage over 612 public retaining walls, most constructed when the City's street system was first developed. The area along the north shore of Lake Union, near Stone Way North, was improved with a 452-foot timber retaining wall in April 1952.

The retaining wall provided solid support for the street and utilities between Lake Union and N 34th St. Age-related deterioration of the timber retaining wall has put this section of public right-of-way at risk. Isolated wall failures have resulted in development of sinkholes behind the wall. The estimated cost to replace the wall is more than \$20M.

In 2018, parking along the wall was reconfigured to move vehicle loading away from the wall in the interest of public safety. We also installed rotation sensors at 3 locations along the wall to monitor possible wall movement and to automatically alert Roadway Structures engineering staff should a safety concern arise. Also in 2018, we funded and began early project work to draft an emergency response plan should wall deterioration accelerate, to engage relevant permitting agencies in conversation about permissible replacement schemes for the wall, and to develop a conceptual design for full wall replacement. Although early project work will continue through 2019, SDOT has not obtained full replacement funding. We will continue to seek funding through grant programs and other methods in 2019.



Northlake retaining wall



## MOVEABLE BRIDGE CENTERLOCK SYSTEMS

On January 6, 2017, the Ballard Bridge, over which approximately 60,000 cars travel each day, experienced a failure of the centerlock linkage system due to the combined effects of age, long term structural fatigue and cold temperatures. The steel centerlock bars that connect the north and south halves of the bridge are operated by a series of levers arms and shafts. Due to the failure, the bridge was stuck in a position that did not allow vehicles to cross. CPRS's skilled maintenance crews quickly went into action and installed a temporary lock system within hours of the original failure. The temporary system was manually operated until replacement parts could be fabricated and installed. Since the failure in 2017, the Ballard Bridge has had other outages related to other centerlock component failures in 2018.

The University Bridge has had similar centerlock problems and is the movable bridge to most recently have been manually operated until replacement parts could be fabricated and installed. Despite preventative maintenance of centerlock systems on a regular basis, their age and rate of deterioration exceeds the ability of maintenance crews to stay ahead of major defects that result in operational outages. As such, Roadway Structures will be seeking additional funding for replacement of the Ballard Bridge and University Bridge centerlock systems. The estimated cost is \$500K. Comparatively, the Fremont Bridge centerlock system was replaced in 2005 and has been problem free since project completion.



Ballard Bridge centerlock gears and lateral transfer shaft undergoing repairs

## 4TH AVE S BRIDGE OVER ARGO RAILYARD LANE CLOSURE

The purpose of routine bridge inspection by SDOT's trained inspection engineers is to identify conditions that could become public safety issues long before they occur. One example of where routine inspection led to identification of an issue before larger problems could arise was at the 4th Avenue South Bridge that crosses the Argo rail yard, which was built in 1933 and is now 85 years old. Over the years, different lane configurations were installed on this bridge, and in 1986, a change was made that allowed vehicles to travel on the eastern edge of the bridge. Over time, cracks began to develop in the cantilevered section of the concrete pier cap near the east end of the bridge.

A detailed analysis of the cap indicated that heavy trucks were contributing to the cracks in the concrete. To address the growing cracks, we have restricted southbound travel by trucks and northbound traffic by all vehicles to the center lanes. In 2018, we began a permitting and repair design process. Lane restrictions are temporary until the cross beams can be strengthened in 2019/2020. This is an example where bridges remain in use longer than they were designed for and must be modified and/or strengthened to preserve important transportation routes. It is also an example of the impact to aging structures by increasing traffic volumes and weight of commercial vehicle traffic. Costs for repair design (\$380,000) and construction (\$15M) are currently not funded.



4th Avenue South Bridge: Cracked cantilevered bridge pier section over the Argo Rail Yard

## PIONEER SQUARE AREAWAYS

Areaways are one of the more challenging assets in the SDOT structures inventory. They were built as a result of regrade efforts to create more land in the late 1800s and early 1900s. As such, the structural components that make up an areaway are aged and in many cases showing the signs of advanced deterioration. Over roughly the last 20 years, approximately 40 areaways have been either structurally retrofitted (typically with a reinforced concrete, micropile-supported "strong wall" against the existing streetwall) or filled in with controlled density fill. For instance, one each of these mitigation types was completed in 2018 near the intersections of 1st Ave and Columbia St and 1st Ave and Marion St.

Due to increasing traffic demands and vehicle weight on 1st Avenue and as a matter of maintaining public safety, Roadway Structures engineers will be conducting increased inspection and monitoring of areaways in Pioneer Square and downtown in 2019/2020. Installation of monitoring equipment to alert engineering staff of advanced deterioration will also be implemented early in the program in 2019. As indicated by inspection and as funding allows, areaway street walls will either be retrofitted to tolerate increased loading or loading will be restricted to prevent increased wall deterioration or failure.

## SPOKANE ST SWING BRIDGE CONTROLS, HYDRAULICS AND SEISMIC STABILITY

The Spokane St Swing Bridge is a cantilevered, post-tensioned, concrete, hydraulic, lift and turn bridge conveying traffic below the West Seattle High Pass Bridge along SW Spokane St. Lift and turn operations for each 7,000-ton movable side of the bridge are facilitated by two turning piers (Pier 6 and Pier 7). This bridge configuration is the only one of its kind in the world and is a marquee asset in our bridge inventory. Construction of the bridge was completed in 1991. Given its 27-year service life, several major maintenance issues have become apparent recently and present a significant funding challenge to the Roadway Structures maintenance budget.

Major maintenance issues include: determination and mitigation of the root cause of the Pier 6 lift cylinder failure in June 2018; maintenance of the current Pier 7 cylinder to address the determined cause; replace the original but underdesigned hoist system that is used to extract the cylinders from beneath the bridge; removal of compacted Duwamish River silt collected in the seismic isolation area below Pier 6 and upgrade of the bridge operation control system. Details on each of these issues follows.



LEFT: Spokane St Swing Bridge: Pier 6 lift cylinder emergency replacement June 2018

### PIER 6 CYLINDER FORENSICS AND ROOT CAUSE MITIGATION

On June 20th, 2018, the Pier 6 lift cylinder was found to be leaking during a routine preventative maintenance inspection. The leak was from an internal section of the cylinder and was not visible for specific diagnosis and mitigation with the cylinder in place and in service. The decision was made to replace the in-service cylinder with a spare cylinder kept in reserve for this express purpose. The driving factor in the decision to swap cylinders was the Federal requirement to maintain navigable waterways open to marine traffic. If the cylinder leak worsened and the cylinder could not hold pressure, the remaining alternative was to make a one-time turn of the bridge into the “open for marine traffic” position (closed to roadway traffic) resulting in significant breakage of other bridge components. The lift cylinder is 9 ft. in diameter, weighs approximately 32,000 lbs., and operates at a working hydraulic fluid pressure of 1,800 psi.

Despite a lack of recent experience with this type of major maintenance effort, the Roadway Structures maintenance, operations and engineering team swapped cylinders and brought the bridge back in service in 5 days. We are currently operating the bridge at risk given an undiagnosed cylinder leakage, and a cylinder of the same configuration and service life to the one recently replaced on Pier 6 is still in use for Pier 7 lift and turning. After the bridge was operational again, Roadway Structures procured an engineering consultant to assist with forensic investigation to determine the cause of the leak on the Pier 6 cylinder.

LEFT: Spokane St Swing Bridge (right) adjacent to the West Seattle High Pass Bridge (left) at the Duwamish River





Planning for forensics began in November 2018, and the cylinder will be shipped to a forensic machine shop in January of 2019. Further action will be determined based on the findings of the forensic investigation. Note that a similar failure occurred in 2001, resulting in the discovery of a fundamental flaw in the design of the original cylinder. This resulted in a \$3M, 3-year process to redesign the cylinder and to build 3 new units. One of these redesigned units is the cylinder that failed in June of 2018. The funding need to complete Pier 6 cylinder forensics, address Pier 7 cylinder maintenance, and to replace the hoists in each pier is \$2.5M.

### BRIDGE CONTROL SYSTEM UPGRADE

The electronic control system components that allow action calls at the bridge operator control panel to be communicated to the hydraulic power systems that lift and turn the bridge were based on technology that was already 10 years old in 1991 when the bridge was commissioned. Those systems are now showing significant signs of deterioration and given the age of the technology replacement components are either difficult and costly to procure or can't be procured at all. We are currently experiencing repeated freezing of the CPU that is a primary control component and hoping that it reboots successfully each time. If this system fails, our only method of controlling the bridge is with a manual back-up system located in each turning pier that requires significant refurbishment and the coordinated effort of several people to open and close the bridge rather than 1 bridge operator.

Roadway Structures currently has a design process underway to reroute communication from the bridge operator tower to Piers 6 and 7 via new fiber optic cable and to replace the existing control systems with updated programable logic controllers. The fiber routing design is at 100% and the control system upgrade is currently undergoing a peer review process to move the project from 60% to 90%

design. The current project schedule is to have design complete by October 2019 and to put the contract out to bid in by the end of 2019. The total estimated cost for this project is \$1.6M.

### PIER 6 SILT REMOVAL

Pier 6 is supported by 32, 36-inch diameter steel foundation piles that pass through a concrete bridge seal (used as the floor of the coffer dam built to facilitate Pier 6 construction) via 32, 48-inch diameter isolation sleeves. This leaves a 6-inch-wide circumferential annular space between each foundation pile and isolation sleeve. To control the pile group seismic response, the annular spaces were backfilled with pea gravel to a common elevation, resulting in the same pile stiffness characteristics for each pile in the group. To prevent infiltration of river sediment that would alter those stiffness characteristics, each annular space was capped with a galvanized, steel bolted collar. The foundation piles, isolation sleeves, and caps are visible underwater via the 3-foot vertical space between the top of the bridge seal and the bottom of the Pier 6 foundation floor.

An underwater inspection was performed in 2013 that found evidence of annular space cap failure and significant buildup of sediment in the 3-foot space between the top of the remaining bridge seal and the bottom of the Pier 6 foundation. This presents a risk of unfavorable seismic response of the bridge that could cause catastrophic failure under earthquake loading. Roadway Structures currently has a major maintenance design process underway to remove the silt from the 3-foot vertical space, replace all of the annular space collars, inspect each annular space, and if necessary, remove infiltrated sediment down to the original elevation for desired pile group seismic response. All of this work will be done underwater, requiring the use of commercial divers. The total estimated cost for this project is \$200K.

**ANNUAL CIP  
STRUCTURES  
PROGRAMS**

# ANNUAL CIP STRUCTURES PROGRAMS

## RETAINING WALLS

The Retaining Wall program is designed to provide a dedicated funding source for repairs to retaining walls. The following project started design in 2018:

- › N Northlake Way Retaining Wall



N Northlake Way Retaining Wall

## BRIDGE PAINTING

Roadway Structures has 19 bridges built with steel elements and 14 bridges that have metal components. These bridges require regular painting to protect them from corrosion and rust. The typical life of a paint system on a bridge is 18 years. The following bridge painting designs were completed in 2018:

- › Seattle Blvd
- › 4th Ave over Argo



4th Ave / Airport over Argo



## BRIDGE LOAD RATING

Safety of Seattle's bridges is the highest priority of Roadway Structures.

Managing the safe weight capacity of bridges is an important element to bridge safety. The Load Rating program provides for: 1) detailed analysis and calculation of the load capacity of a bridge; 2) live load tests on a bridge; and 3) instrumentation and monitoring of deficient bridges. A list of load-restricted bridges can be found in Appendix E. The following bridges were load-rated in 2018:

Full Load Ratings:

- › Princeton Bridge
- › Admiral Way Bridge North
- › Admiral Way Bridge South
- › S Lucile St Bridge
- › Seattle Blvd Bridge
- › S Main St/Railroad Bridge
- › W Dravus St/Railroad

Partial Load Ratings:

- › Magnolia Bridge Section 5
- › S Spokane St Swing Bridge eastbound, Steel Spans
- › S Spokane St Swing Bridge eastbound, Span 30-32



Live Load Rating at Admiral Way Bridge

# THE FUTURE OF ROADWAY STRUCTURES

# THE FUTURE OF ROADWAY STRUCTURES

In 2018, we completed the third full year of the citizen-approved Levy to Move Seattle transportation funding for bridges, retaining walls, stairways, and other transportation structures. LMS provided funding that closed a gap for the replacement of the Fairview Ave bridges and reduced the backlog of maintenance on transportation structures.

Given the fact that bridges will not last forever, it is essential that we plan for the future. Bridges are unique in the way they are managed. While sidewalks can crack and settle and roadway pavement can have potholes, bridges cannot experience these types of failures without causing a significant risk to public safety. Thus, bridges must be replaced or treated with major rehabilitation before they deteriorate to a point where public safety is a consideration, or they must be closed.

Seattle's transportation system is highly dependent on the existing bridges, and bridge closure is not a preferred option. The rate of structural deterioration and the age of our structural inventory are making our current funding practices inefficient and unsustainable. There is an urgent need to create a more robust and ongoing fund source for systematic replacement of our oldest bridges, as well

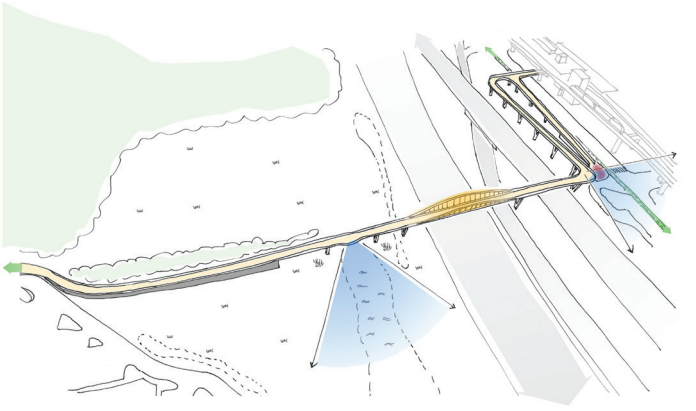
as creation of a strong bridge preservation program.

The reality is we have \$3.4B in bridge replacement value for bridges that are over 60 years old. If we spent \$100M per year, it would still take over 30 years to replace these bridges, some of which would be over 90 years old by the time of their replacement. This level of investment for bridge replacement is not feasible in the near future. Therefore, we must invest in preservation strategies that allow bridges to last longer than they were initially designed to while continuing to provide safe, reliable travel. Investing in technology that allows bridge engineers to better understand how bridges perform is part of the solution. We currently have electronic remote monitoring on some bridges that provides key data to the bridge engineering office for detailed analysis. We are also exploring the use of unmanned aerial vehicles (UAV) to supplement the hands-on inspections engineers perform.

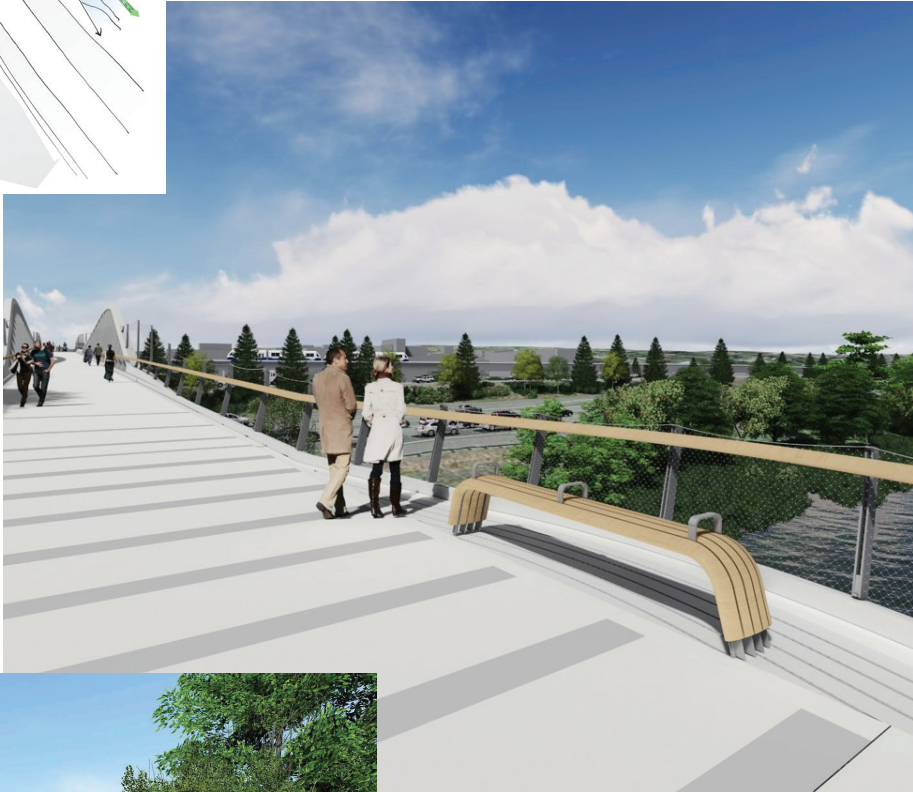
Dedicated and skilled craft workers, bridge operators, and engineering staff ensure this goal is met, all working together to increase mobility and improve public options to Move Seattle.

Public safety and the safe travel across  
Seattle bridges remain Roadway  
Structures' highest priority.





Northgate Pedestrian Bridge sketch, overview



Northgate Pedestrian Bridge rendering, campus overlook



Northgate Pedestrian Bridge rendering, view west

# APPENDICES

## SEATTLE DEPARTMENT OF TRANSPORTATION

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-002A	SW Spokane St Bridge-Appr	SDOT	Moveable	
BRG-002S	SW Spokane St Bridge-Swing	SDOT	Moveable	
BRG-003B	University Bridge -Bascule	SDOT	Moveable	
BRG-003SA	Univeristy Bridge-S Appr	SDOT	Moveable	
BRG-003NAS	University Bridge -N Appr S	SDOT	Moveable	
BRG-003NAC	University Bridge -N Appr C	SDOT	Moveable	
BRG-004	Albro Pl /Airport Way S	SDOT	Vehicular	
BRG-005A	Harbor Ave - Lower N Bridge	SDOT	Vehicular	
BRG-005B	Harbor Ave - Upper N Bridge	SDOT	Vehicular	
BRG-005D	Harbor Ave - Upper S Bridge	SDOT	Vehicular	
BRG-005E	Harbor Ave - Lower S Bridge	SDOT	Vehicular	
BRG-006	Airport Way /Argo RR	SDOT	Vehicular	
BRG-007	2nd Ave Extension S	SDOT	Vehicular	
BRG-008A	SW Roxbury St Ped /45th	SDOT	Pedestrian	
BRG-008B	SW 98th St Ped /50th Ave	SDOT	Pedestrian	
BRG-012A	Fremont Bridge Appr	SDOT	Moveable	
BRG-012B	Fremont Bridge Bascule	SDOT	Moveable	
BRG-013	Schmitz Park Bridge	SDOT	Vehicular	
BRG-014N	Jose Rizal Bridge - N	SDOT	Vehicular	
BRG-015	Cowen Park Bridge	SDOT	Vehicular	
BRG-016	Princeton Ave NE	SDOT	Vehicular	
BRG-017S	Admiral Way - N	SDOT	Vehicular	
BRG-017N	Admiral Way - N	SDOT	Vehicular	
BRG-020CA	Ballard Bridge- Conc Appr	SDOT	Moveable	
BRG-020SA	Ballard Bridge- Steel Appr	SDOT	Moveable	
BRG-020B	Ballard Bridge - Bascule	SDOT	Moveable	
BRG-021	20th Ave NE /Thornton Ck	SDOT	Pedestrian	
BRG-023A	Magnolia Bridge	SDOT	Vehicular	
BRG-023B	Magnolia Bridge Extention	SDOT	Vehicular	
BRG-024	Phinney Ave N /N 57th St	SDOT	Vehicular	
BRG-025	S Lucile St Overpass	SDOT	Vehicular	
BRG-029	Mcgraw St Bridge	SDOT	Vehicular	
BRG-031E	4th Ave S Jack-Airport, East Half	SDOT	Vehicular	
BRG-031W	4th Ave S Jack-Airport, West Half	SDOT	Vehicular	
BRG-032	Seattle Blvd Bridge	SDOT	Vehicular	
BRG-033W	Jackson St, 4th to 5th - W	SDOT	Vehicular	
BRG-033E	Jackson St, 4th to 5th - E	SDOT	Vehicular	
BRG-035	S Main St /RR	SDOT	Vehicular	
BRG-036	Yesler /4th Ave S	SDOT	Vehicular	
BRG-037	Yesler Way /5th Ave S	SDOT	Vehicular	
BRG-038	Fauntleroy Expressway	SDOT	Vehicular	
BRG-039	1st Ave S /Argo RR	SDOT	Vehicular	
BRG-040E	Marion St Footbridge E	SDOT	Pedestrian	
BRG-040W	Marion St Footbridge W	SDOT	Pedestrian	



## SEATTLE DEPARTMENT OF TRANSPORTATION

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-040C	Marion St Footbridge C	SDOT	Pedestrian	
BRG-046	W Emerson St Viaduct	SDOT	Vehicular	
BRG-047	23rd Ave W /RR	SDOT	Vehicular	
BRG-050	33rd Ave W /RR	SDOT	Pedestrian	
BRG-051	NW 57Th St /RR	SDOT	Vehicular	
BRG-052	W Fort St /RR	SDOT	Vehicular	
BRG-053	W Howe St Br	SDOT	Vehicular	
BRG-054	Rainier & MLK Jr Ped	SDOT	Pedestrian	
BRG-056	E Interlaken Blvd /26th	SDOT	Vehicular	
BRG-058	Ravenna Park Bridge	SDOT	Pedestrian	
BRG-060N	Elliott Bay Marina N Ramp	SDOT	Vehicular	
BRG-060S	Elliott Bay Marina S Ramp	SDOT	Vehicular	
BRG-063A	Colman Park Bridge #2	SDOT	Vehicular	
BRG-063B	Colman Park Bridge #3	SDOT	Vehicular	
BRG-063C	Colman Park Bridge #4	SDOT	Vehicular	
BRG-067	E Waterway (N Bridge)	SDOT	Pedestrian	
BRG-068	E Waterway (S Bridge)	SDOT	Vehicular	
BRG-069A	Fairview Ave N - Floating Ped	SDOT	Pedestrian	
BRG-069	Fairview Ave N - E Bridge	SDOT	Vehicular	
BRG-070	Fairview Ave N - W Bridge	SDOT	Vehicular	
BRG-071	SW Nevada St /Longfellow	SDOT	Vehicular	
BRG-073	NE 93rd St Ped /Thornton	SDOT	Pedestrian	
BRG-075	Colman Park Bridge #1	SDOT	Vehicular	
BRG-076	35th Ave NE /Thornton Cr	SDOT	Vehicular	
BRG-090S	SW Spokane Viaduct East Bound	SDOT	Vehicular	
BRG-090N	SW Spokane Viaduct West Bound	SDOT	Vehicular	
BRG-091	E Pine St Ped Bridge	SDOT	Pedestrian	
BRG-092	N Queen Anne Dr	SDOT	Vehicular	
BRG-093	4th Ave S /Argo RR	SDOT	Vehicular	
BRG-094MS	NE 45th St Via - Main	SDOT	Vehicular	
BRG-094EA	NE 45th St Via - E Appr	SDOT	Vehicular	
BRG-095	N 41st St Ped /Sr-99	SDOT	Pedestrian	
BRG-096	UW Stadium Ped	SDOT	Pedestrian	UW may be owner
BRG-102	15th Ave NE /Thornton Cr	SDOT	Vehicular	
BRG-104	NE 105th St /Thornton Cr	SDOT	Vehicular	
BRG-105	NE 110th St /Thornton Cr	SDOT	Vehicular	
BRG-105A	NE 110th St /Thornton Cr - North Side	SDOT	Pedestrian	
BRG-105B	NE 110th St /Thornton Cr - South Side	SDOT	Pedestrian	
BRG-106	8th Ave NW & NW 133rd St	SDOT	Vehicular	
BRG-108	51st Ave NE Ped /Thornton Cr	SDOT	Pedestrian	
BRG-109	45th Ave NE /Thornton Cr	SDOT	Vehicular	
BRG-110	Holman Rd NW /8th Ave NW	SDOT	Vehicular	

## SEATTLE DEPARTMENT OF TRANSPORTATION

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-115	39th Ave NE /Thornton Cr	SDOT	Vehicular	
BRG-116	NW Woodbine Way	SDOT	Vehicular	
BRG-117	E Boston Terrace	SDOT	Vehicular	
BRG-121	Roosevelt /Campus Pkwy	SDOT	Vehicular	
BRG-124	15th Ave W Interchange	SDOT	Vehicular	
BRG-127	N 102nd St /Sr-99	SDOT	Pedestrian	
BRG-130	NE 45th St Ped	SDOT	Pedestrian	
BRG-131ER	West Seattle High Rise - E Appr Ramp	SDOT	Vehicular	
BRG-131WR	West Seattle High Rise - West Appr Ramp	SDOT	Vehicular	
BRG-131WA	West Seattle High Rise - W Appr	SDOT	Vehicular	
BRG-131EA	West Seattle High Rise - E Appr	SDOT	Vehicular	
BRG-131M	West Seattle High Rise - Mainspan	SDOT	Vehicular	
BRG-135	13th Ave NW Ped /Holman	SDOT	Pedestrian	
BRG-136	N 130th St Ped /Sr-99	SDOT	Pedestrian	
BRG-140	W Dravus St /15th Ave W	SDOT	Vehicular	
BRG-142	Delridge Wy Ped	SDOT	Pedestrian	
BRG-143	15th Ave NW /Leary Way	SDOT	Vehicular	
BRG-147	W Andover Ped	SDOT	Pedestrian	
BRG-149	Sr-99 /N 79th St Ped	SDOT	TUNNEL	
BRG-161	Washington St Pier	SDOT	Pedestrian	
BRG-162	24th Ave NW Pier	SDOT	Pedestrian	
BRG-195	Mcgilvra Blvd E	SDOT	Vehicular	
BRG-205	Frink Park Bridge	SDOT	Vehicular	
BRG-226	Halladay St Ped /Westlake	SDOT	Pedestrian	
BRG-227	2730 Westlake Ave N	SDOT	Pedestrian	
BRG-228	Westlake Ped /Ship Canal	SDOT	Pedestrian	
BRG-230	W Galer St Flyover	SDOT	Vehicular	
BRG-231	Klickitat Ave SW Bridge	SDOT	Vehicular	
BRG-238	Crockett St Ped /Westlake	SDOT	Pedestrian	
BRG-245	30th Ave NE Ped /Thornton Cr	SDOT	Pedestrian	
BRG-246	Royal Brougham /RR	SDOT	Vehicular	
BRG-259	E Marginal Grade Separation	SDOT	Vehicular	
BRG-260	Thomas St Ped Bridge	SDOT	Pedestrian	
BRG-293	S Spokane 1st Ave Ramp	SDOT	Vehicular	
BRG-294	S Henderson / SR-99 PED BR	SDOT	Pedestrian	
BRG-295	S Spokane 4th Ave Ramp	SDOT	Vehicular	
BRG-298A	420 Pontius Ave N Et Al	SDOT	Vehicular	
BRG-298B	420 Pontius Ave N Et Al	SDOT	Vehicular	

124 Bridges Owned by SDOT

**SDOT & SEATTLE PUBLIC UTILITIES**

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-150E	Ravenna Sewer Trest - E	SDOT/SPU	Trestle	SDOT maint. deck and rail only.
BRG-150W	Ravenna Sewer Trest - W	SDOT/SPU	Trestle	SDOT maint. deck and rail only.

2 Bridges

**SDOT & RAILROAD**

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-045	W Dravus ST /RR	SDOT/RR	Vehicular	SDOT maint. deck and RR maint. substructure

1 Bridge

**SDOT & WASHINGTON STATE DEPARTMENT OF TRANSPORTATION**

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-014S	Jose Rizal Bridge	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-111	Rainier Ave S /SR 90	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-112	MLK Jr Way S /I-90	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-114	23rd Ave S /I-90	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-126	Montlake Blvd /SR-520	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-134	24th Ave E /SR-520	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-266	S Atlantic St Flyover	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-242	Edgar Martinez /RR	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-300	NE 145th St /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-301	NE 130th St / I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-302	N 117th St /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-304	N 92nd St /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-306	NE 80th St /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-307	5th Ave NE /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-309	NE 70th St /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-311	NE 50th St /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-312	NE 45th St /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-314	E Roanoke St /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-317	Lakeview Blvd E /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-318	Eastlake Ave /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-319	Denny Way /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-320	Olive Way /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-321	Pine St and Boren Ave /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-322	Pike St /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-323	8th Ave /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-324	Seneca St /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-325	Spring St /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-326	Madison St /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-328	Yesler Way /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner



**SDOT & WASHINGTON STATE DEPARTMENT OF TRANSPORTATION**

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-330	S Holgate St /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-332	Columbian Way S /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-337	10th Ave E /SR-520	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-338	Delmar DR /SR-520	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-339	S Albro Pl /I-5	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
BRG-340	7th Ave @University St /Cantil	SDOT/WSDOT	VEHICULAR	SDOT performs partial maint, WSDOT is owner
35 Bridges inspected by SDOT				

**SEATTLE PARKS AND RECREATION**

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-042	Leschi Park Bridge	Parks		
BRG-079	Carkeek Park Ped	Parks	Pedestrian	
BRG-082	Burke Gilman Tr/6th Ave	Parks		
BRG-119	Burke Gilman Tr /NE 45th	Parks		
BRG-120	Burke Gilman Tr /Sand Pt	Parks		
BRG-261	OSP /Elliott Ave	Parks	Skybridge	
BRG-262	OSP/RR Ped Br	Parks	Pedestrian	
7 Bridges inspected by SDOT				

**SEATTLE CENTER**

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-010A	Seattle Center/Mercer St	SEA CTR		
BRG-010B	Seattle Center/Nob Hill	SEA CTR		
BRG-500	Monorail	SEA CTR		
3 Bridges inspected by SDOT				

**SOUND TRANSIT**

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-234	Weller St Ped	ST/KC/SDOT	Pedestrian	Ownership and maintenance is identified in an agreement between ST, KC and SDOT
BRG-700A	O&M Facility Unit A over S Forest St	Sound Transit	Light Rail	
BRG-700B	O&M Facility Unit B over 6th Ave S	Sound Transit	Light Rail	
BRG-700D	O&M Facility Unit D over Airport Way S	Sound Transit	Light Rail	
BRG-720	Mt Baker Station North over Forest/26th	Sound Transit	Light Rail	
BRG-730	Mt Baker Station South over MLK S/B	Sound Transit	Light Rail	
6 Bridges inspected by SDOT				

## SEATTLE CITY LIGHT

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-267	Newhalem Creek	SCL		Inspected by request
BRG-268	Newhalem Cr Intake Ped	SCL		Inspected by request
BRG-269	Gorge Inn Footbridge	SCL		Inspected by request
BRG-270	Gorge Powerhouse Access	SCL		Inspected by request
BRG-271	Gorge Powerhouse Ped	SCL		Inspected by request
BRG-272	Gorge Dam Access	SCL		Inspected by request
BRG-273	Stetattle Creek	SCL		Inspected by request
BRG-274	Diablo Tailrace	SCL		Inspected by request
BRG-275	Windy Gap	SCL		Inspected by request
BRG-276	Diablo Dam Access #1	SCL		Inspected by request
BRG-277	Diablo Dam Access #2	SCL		Inspected by request
BRG-278	Happy Creek	SCL		Inspected by request
BRG-279	Ross Dam E Abutment	SCL		Inspected by request
BRG-280	Ross Dam E Spillway	SCL		Inspected by request
BRG-281	Ross Dam W Spillway	SCL		Inspected by request
BRG-282	Ross Dam W Abutment	SCL		Inspected by request
BRG-283	Diablo Dam S Spillway	SCL		Inspected by request
BRG-284	Diablo Dam Arch Section	SCL		Inspected by request
BRG-285	Diablo Dam N Spillway	SCL		Inspected by request
BRG-286	Gorge Dam Roadway	SCL		Inspected by request
BRG-296	Olson Creek	SCL		Inspected by request
BRG-299	Babcock Creek	SCL		Inspected by request

22 Bridges inspected by SDOT

## SEATTLE PUBLIC UTILITIES

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-155A	Brandon St / Longfellow Culv Under The Road	SPU	Culvert	Inspected by request
BRG-155B	Brandon St / Longfellow Ped Br	SPU	Trestle	Inspected by request
BRG-156	Sw Brandon St Footbridge Over Lfc Swale	SPU	Trestle	Inspected by request
BRG-212	Ne 97Th St Sewer Trestle	SPU	Trestle	Inspected by request
BRG-213	32Nd Ave W Sewer Trestle	SPU	Trestle	Inspected by request
BRG-214	W Elmore St Sewer Trestle	SPU	Trestle	Inspected by request
BRG-216A	Sw Yancy / Longfellow Crk	SPU	Culvert	Inspected by request
BRG-216B	Sw Findlay & 26Th Ave Sw/ Longfellow Crk	SPU	Culvert	Inspected by request
BRG-216C	Sw Juneau St / Longfellow Crk	SPU	Culvert	Inspected by request
BRG-216D	Sw Graham St Footbridge At 26Th Ave Sw/ L. Fellow Cr	SPU	Culvert	Inspected by request
BRG-216E	Sw Willow St & 24Th Ave Sw – North Footbridge/ Longfellow Cr	SPU	Culvert	Inspected by request
BRG-216F	Sw Willow St – South Footbridge, S/O Willow But Between 23Rd And 24Th Ave Sw	SPU	Culvert	Inspected by request

## SEATTLE PUBLIC UTILITIES

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-216G	Sw Kenyon St /L Fellow Cr E/O 24Th Ave Sw Ped Br	SPU	Trestle	Inspected by request
BRG-216H	Fish Ladder Overlook At Fauntleroy Sw & S/O Sw Director St	SPU	Trestle	Inspected by request
BRG-216J	Taylor Creek @ Lakeridge Pl E/O 68Th Ave S & N/O S 112Th Pl	SPU	Culvert	Inspected by request
BRG-254A	Meadowbrook Pond A	SPU	Trestle	Inspected by request
BRG-254B	Meadowbrook Pond B	SPU	Trestle	Inspected by request
BRG-341	Sw Adams/Longfellow Ck Bridge	SPU	Pedestrian	Inspected by request
18	Bridged inspected when requested by SPU			

## UNIVERSITY OF WASHINGTON

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-133	UW Ped /Pacific - W Bridge	U of W	SKYBRIDGE	Required inspection over ROW
BRG-153N	UW /Montlake Blvd Ped N	U of W	SKYBRIDGE	Required inspection over ROW
BRG-153S	UW /Montlake Blvd Ped S	U of W	SKYBRIDGE	Required inspection over ROW
BRG-154	UW Ped /15th Ave NE	U of W	SKYBRIDGE	Required inspection over ROW
BRG-209	UW /Pacific St Ped E	U of W	SKYBRIDGE	Required inspection over ROW
BRG-366	NE pacific /Rainier Vista	U of W	SKYBRIDGE	Required inspection over ROW
6	Bridges inspected by SDOT			

## KING COUNTY

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-018	South Park Bridge	King County	Vehicular	SDOT perform reimb. operations and maint.
BRG-034	5th Ave S, Jackson-Seattle Blvd	King County	Vehicular	Required inspection over ROW
BRG-055	Arboretum Sewer Trestle	King County	Pedestrian	Required inspection over ROW
BRG-151E	KC Skybridge /5th Ave	King County	Skybridge	Required inspection over ROW
BRG-151W	KC Skybridge /4th Ave	King County	Skybridge	Required inspection over ROW
5	Bridges inspected by SDOT			

## PORT OF SEATTLE

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-059	Lenora St /Alaskan Way	Port	Pedestrian	Required inspection over ROW
BRG-218	Bell St Ped	Port	Skybridge	Required inspection over ROW
BRG-221	Terminal 5 Overpass	Port	Vehicular	Required inspection over ROW
BRG-232	Terminal 18 Ped /RR	Port	Pedestrian	Required inspection over ROW
4	Bridges inspected by SDOT			

PRIVATELY OWNED				
ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-026	Macys Skybridge	Private	Skybridge	Required inspection over ROW
BRG-043	Joe Desimone Bridge	Private	Skybridge	Required inspection over ROW
BRG-065	Swedish Hosp /Marion St	Private	Skybridge	Required inspection over ROW
BRG-066	Seattle Trade Ctr	Private	Skybridge	Required inspection over ROW
BRG-074	Gaige Fisher Ped	Private	Skybridge	Required inspection over ROW
BRG-078	Maynards Addition	Private	Skybridge	Required inspection over ROW
BRG-080	Pike St /Post Alley	Private	Skybridge	Required inspection over ROW
BRG-098	Northern Life Ped	Private	Skybridge	Required inspection over ROW
BRG-099	Swedish Hosp /Minor Ave	Private	Skybridge	Required inspection over ROW
BRG-125L	Seattle Trust Ped Lower	Private	Skybridge	Required inspection over ROW
BRG-125U	Seattle Trust Ped Upper	Private	Skybridge	Required inspection over ROW
BRG-128	Gamma Phi Beta Ped	Private	Skybridge	Required inspection over ROW
BRG-129	S Orcas St Skybridge	Private	Skybridge	Required inspection over ROW
BRG-139	2001 Sixth, LLC. Ped	Private	Skybridge	Required inspection over ROW
BRG-141	Grange Insurance Ped	Private	Skybridge	Required inspection over ROW
BRG-145	Westin Hotel Skybridge	Private	Skybridge	Required inspection over ROW
BRG-156N	Colonial Grand Pac Ped	Private	Skybridge	Required inspection over ROW
BRG-156S	Watermark Tower Ped	Private	Skybridge	Required inspection over ROW
BRG-157	Swedish Hosp Ballard Ped	Private	Skybridge	Required inspection over ROW
BRG-164	Virginia Mason Hosp Ped	Private	Skybridge	Required inspection over ROW
BRG-200E	General Insurance E	Private	Skybridge	Required inspection over ROW
BRG-200W	General Insurance W	Private	Skybridge	Required inspection over ROW
BRG-201	Pike Pl Garage Skybridge	Private	Skybridge	Required inspection over ROW
BRG-211	Swedish Hosp /16th Ave	Private	Skybridge	Required inspection over ROW
BRG-215	Galer St Ped /Westlake	Private	Skybridge	Required inspection over ROW
BRG-217	Pacific Place Skybridge	Private	Skybridge	Required inspection over ROW
BRG-220	Airborne Express Ped	Private	Skybridge	Required inspection over ROW
BRG-246A	Qfield Parking Garage	Private	Skybridge	Required inspection over ROW
BRG-247	Belltown Court	Private	Skybridge	Required inspection over ROW
BRG-248	W Prospect St Ped /RR	Private	Skybridge	Required inspection over ROW
BRG-249	Seattle Univ/E James Way Ped	Private	Skybridge	Required inspection over ROW
BRG-257	Union St /Post Alley	Private	Skybridge	Required inspection over ROW
BRG-263	Yave Ave N Ped	Private	Skybridge	Required inspection over ROW
BRG-264	Group Health Ped	Private	Skybridge	Required inspection over ROW
BRG-265	Safeco Field Ped	Private	Skybridge	Required inspection over ROW
BRG-287	Swedish Hosp /Cherry St	Private	Skybridge	Required inspection over ROW
BRG-288	Harborview /9th Ave	Private	Skybridge	Required inspection over ROW
BRG-358	Virginia St Ped /Aeo 5Th Ave	Private	Skybridge	Required inspection over ROW

38 Bridges inspected by SDOT



**WASHINGTON STATE CONVENTION CENTER**

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-243N	Convention Center - N BR	Convention Ctr	Vehicular	Required inspection over ROW
BRG-243E	Convention Center - E BR	Convention Ctr	Pedestrian	Required inspection over ROW
BRG-243W	Convention Center - W BR	Convention Ctr	Pedestrian	Required inspection over ROW
BRG-243S	Convention Center - S BR	Convention Ctr	Pedestrian	Required inspection over ROW

4 Bridges inspected by SDOT

**RAILROAD**

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-240N	Rr /Ship Canal - N Br	Railroad		Required inspection over ROW
BRG-240S	Rr /Ship Canal - S Br	Railroad		Required inspection over ROW
BRG-251	RR /NW 61st St	Railroad		Required inspection over ROW
BRG-252	RR /NW 65th St Ped	Railroad		Required inspection over ROW

4 Bridges inspected by SDOT

**WASHINGTON STATE DEPARTMENT OF TRANSPORTATION**

ASSET NO.	BRIDGE NAME	FUNDED BY	BRIDGE TYPE	COMMENTS
BRG-011	AURORA Bridge	WSDOT	Vehicular	SDOT performs reimb maint. at WSDOT request
BRG-084	SR-99 /Lynn St	WSDOT	Vehicular	SDOT performs reimb maint. at WSDOT request
BRG-085	SR-99 /N 38th St	WSDOT	Vehicular	SDOT performs reimb maint. at WSDOT request
BRG-086	SR-99 /N 46th St	WSDOT	Vehicular	SDOT performs reimb maint. at WSDOT request
BRG-087	SR-99 /N 50th St	WSDOT	Vehicular	SDOT performs reimb maint. at WSDOT request
BRG-088C	Woodland Park /SR-99 - C Br	WSDOT	Vehicular	SDOT performs reimb maint. at WSDOT request
BRG-088N	Woodland Park /SR-99 -N Br	WSDOT	Vehicular	SDOT performs reimb maint. at WSDOT request
BRG-088S	Woodland Park /SR-99 - S Br	WSDOT	Vehicular	SDOT performs reimb maint. at WSDOT request
BRG-089	SR-99 /N 63rd St	WSDOT	Vehicular	SDOT performs reimb maint. at WSDOT request
BRG-103	Alaskan Way Viaduct	WSDOT	Vehicular	SDOT performs reimb maint. at WSDOT request
BRG-107	Battery St Tunnel	WSDOT	Tunnel	SDOT performs reimb maint. at WSDOT request
BRG-137	Seneca St Off Ramp 99	WSDOT	Vehicular	SDOT performs reimb maint. at WSDOT request
BRG-138	Alaskan Way Viaduct Extension	WSDOT	Vehicular	SDOT performs reimb maint. at WSDOT request
BRG-152	Columbia St on Ramp /AWV	WSDOT	Vehicular	SDOT performs reimb maint. at WSDOT request
BRG-223	Galer St Ped /SR-99	WSDOT	Pedestrian	SDOT performs reimb maint. at WSDOT request

15 Bridges inspected by SDOT

**BRIDGE SUMMARY**

<b>DEPARTMENT/AGENCY NAME</b>	<b>SDOT MAINTAINS</b>	<b>SDOT OWNERSHIP</b>	<b>SDOT INSPECTION RESPONSIBILITY</b>
Seattle Dept of Transportation	124	124	124
SDOT/SPU	2	0	2
SDOT/RR	1	0	1
SDOT/WSDOT	35	0	35
Seattle Parks and Recreation	0	0	7
Seattle Center	0	0	3
Sound Transit	0	0	6
Sound Transit/King County/SDOT	1	1	1
Seattle City Light	0	0	22
Seattle Public Utilities	0	0	0
University of Washington	0	0	6
King County	0	0	5
Port of Seattle	0	0	4
Private	0	0	41
Convention Center	0	0	4
Railroads	0	0	4
Washington Dept of Transportation	15	0	0

**NOTES:**

1. This list does not include all bridges within the City limits, for example, bridges carrying I-5 traffic are not included.
2. Maintenance responsibility has not been determined for bridge #BRG-044. Historically it has been maintained by the owner, inspections are not reimbursable at this time.
3. The City is negotiating with the UW about maintenance responsibility of BRG-096.

APPENDIX B: RET WALL INVENTORY

ASSET ID	DISTRICT	LOCATION	WALL TYPE	LENGTH	MAX HEIGHT
RTW-001	DISTRICT1	49th Ave SW Between 98th St And 50th Ave SW	Slab & Rail Construction	67	6
RTW-002	DISTRICT1	9802 49th Ave SW Between 98th And 99th	Slab & Rail Construction	268	9
RTW-003	DISTRICT1	SW Admiral Way Between Spokane And Hanford	Slab & Rail Construction	1150	11
RTW-004	DISTRICT1	1100 California Ave SW	Steel H-Pile & RC Lagging	145	9
RTW-005	DISTRICT1	California Ave SW Between Harbor And Ferry	Concrete Gravity	300	22
RTW-006A	DISTRICT3	600 37th Between Cherry And James	Concrete Gravity	325	17
RTW-007	DISTRICT6	Fremont Ave N Between 36th And 39th	Slab & Rail Construction	53	6
RTW-008	DISTRICT7	Upper Gilman Dr W Between Wheeler And Raye	Slab & Rail Construction	357	23
RTW-009	DISTRICT7	Lower Gilman Dr W Between 11Th And 12Th	Concrete Gravity	264	25
RTW-010	DISTRICT7	Upper Gilman Dr W Between 14th Ave W And Raye	Slab & Rail Construction	119	6
RTW-332	DISTRICT1	Marine View Dr SW At Roxbury St	Timber Pile & Lagging	13	2.5
RTW-011	DISTRICT7	14th Ave W Between Gilman (U) And Raye	Slab & Rail Construction	537	6
RTW-012A	DISTRICT1	7159 Beach Dr SW	Ecology Blocks	16	3
RTW-012B	DISTRICT1	7161 Beach Dr SW	Timber Pile & Lagging	11	5
RTW-012C	DISTRICT1	7161 Beach Dr SW	Slab & Rail Construction	31	10
RTW-012E	DISTRICT1	7163.5 Beach Dr SW	Slab & Rail Construction	37	10
RTW-013	DISTRICT1	7100 Beach Dr SW	Steel H-Pile & TM Lagging	246	7
RTW-014	DISTRICT3	33rd Ave E Between Harrison And Thomas	Gabion	52	11
RTW-015	DISTRICT3	922 Mcgilvra Blv E Between Prospect And Hillside	RC Reinforced Concrete	538	25
RTW-016	DISTRICT3	Mcgilvra Blv E Between Hillside And 39th	Concrete Gravity	800	6
RTW-018	DISTRICT7	3rd Ave W Between Florentia And Dravus	Concrete Gravity	275	12
RTW-019	DISTRICT3	31st Ave S At S. King	RC Reinforced Concrete	433	35
RTW-020	DISTRICT6	N 34th St Between Fremont Br And Stone Wy	RC Reinforced Concrete	2249	30
RTW-021	DISTRICT4	N Northlake Pl At N 34th St	RC Reinforced Concrete	530	10
RTW-022	DISTRICT3	Lakeside Ave S Between Jackson And LaNE	RC Reinforced Concrete	630	18
RTW-023	DISTRICT7	Yesler Way Between 4th And 5th	Slab & Rail Construction	197	22
RTW-024	DISTRICT7	Yesler (N/S) Way Between 4th And 5th	RC Reinforced Concrete	230	30
RTW-025	DISTRICT4	N Northlake Way Between Stoneway And West Of	Timber Pile & Lagging	432	11
RTW-028	DISTRICT3	Delmar Dr E At Interlaken	RC Reinforced Concrete	335	8
RTW-029	DISTRICT2	4th Ave S Between Airport Wy And So. Of	RC Reinforced Concrete	611	30
RTW-030B	DISTRICT2	S Main St Ano Btwn 4th Ave S And 5th Ave S	RC Reinforced Concrete	240	6
RTW-337	DISTRICT1	33rd Ave SW At Spokane St	Soldier Pile	155	3
RTW-035	DISTRICT3	E Boston St At 14th	RC Reinforced Concrete	456	6
RTW-036	DISTRICT7	Eastlake Ave E Between Thomas And Harrison	RC Reinforced Concrete	60	7
RTW-037	DISTRICT7	W Emerson St Between 12Th And 13Th	Slab & Rail Construction	130	6
RTW-038	DISTRICT6	1350 N 34th St	Slab & Rail Construction	55	10
RTW-039	DISTRICT4	Sandpoint Way NE At Inverness Dr NE	RC Reinforced Concrete	209	16
RTW-040	DISTRICT3	30th Ave E Between Pike And Union	Slab & Rail Construction	1201	15
RTW-041	DISTRICT3	30th Ave E Between Union And Spring	Concrete Gravity	230	6
RTW-041Z	DISTRICT7	4th Ave N At Florentia	Concrete Gravity	33.5	6
RTW-042	DISTRICT3	E Union St At 29th	Slab & Rail Construction	4	1.5
RTW-044A	DISTRICT3	E Olive St At 40th	Steel H-Pile & RC Lagging	210	11
RTW-044B	DISTRICT3	Lake Washington Blv At Olive St.	Concrete Block	200	12
RTW-046A	DISTRICT1	3522 Beach Dr SW	Slab & Rail Construction	375	8
RTW-046B	DISTRICT1	3414 Beach Dr SW	RC Reinforced Concrete	923	4

ASSET ID	DISTRICT	LOCATION	WALL TYPE	LENGTH	MAX HEIGHT
RTW-046C	DISTRICT1	3400 Beach Dr SW	RC Reinforced Concrete	330	4
RTW-046D	DISTRICT1	3400.5 Beach Dr SW	RC Reinforced Concrete	100	7
RTW-046E	DISTRICT1	3318 Beach Dr SW	RC Reinforced Concrete	370	4
RTW-047A	DISTRICT1	Harbor Ave SW Between SW Maryland Pl And California Pl	Slab & Rail Construction	150	14
RTW-047B	DISTRICT1	Harbor Ave SW Between California Pl And Mexico	RC Reinforced Concrete	1300	10
RTW-048	DISTRICT2	East Marginal Way S Between Forest And (Pier 28)	Steel H-Pile & RC Lagging	370	7
RTW-049	DISTRICT7	W Mcgraw St Between 10th And 11Th	Concrete Gravity	170	10
RTW-050	DISTRICT3	Grand Ave At Madrona Dr	Concrete Gravity	200	5
RTW-051	DISTRICT3	Grand Ave Between Pine And Pike	RC Reinforced Concrete	680	8
RTW-052	DISTRICT3	Grand Ave Between NEwport Wy And Pike	Concrete Gravity	126	4
RTW-053	DISTRICT3	E Mercer Between Summit And Bellevue	Concrete Gravity	150	9
RTW-054	DISTRICT7	Dexter Ave N Between 6th And Halladay	RC Reinforced Concrete	450	12
RTW-057	DISTRICT7	2601 W Raye St At 26th Ave W	Concrete Block	66	12
RTW-057A	DISTRICT7	W Raye St At Magnolia Blvd W	Steel H-Pile & RC Lagging	77	20
RTW-057B	DISTRICT7	W Raye St At Magnolia Blvd W	Concrete Block	313	9
RTW-059	DISTRICT7	2600 W Raye St At Magnolia B	Concrete Block	24	4
RTW-062	DISTRICT7	Marion St Between 8th And 9th	RC Reinforced Concrete	120	15
RTW-063	DISTRICT7	Marion St Between 8th And 9th	Slab & Rail Construction	240	15
RTW-065	DISTRICT1	44th Ave SW Between California Ave And SW Austin St	Slab & Rail Construction	1100	20
RTW-066	DISTRICT7	2925 Perkins Ln W At S/O Raye	Slab & Rail Construction	108	2
RTW-067A	DISTRICT7	Perkins Ln W Between Raye And House 2557	Slab & Rail Construction	333	6
RTW-067B	DISTRICT7	Perkins Ln W Between House 2519 And House 2479	Slab & Rail Construction	190	4.5
RTW-067C	DISTRICT7	Perkins Ln W At Glenmont	Steel Criblock	60	9.1
RTW-067D	DISTRICT7	2461 Perkins Ln W Between House 2461 And House 2445	Slab & Rail Construction	232	5
RTW-067E	DISTRICT7	2409 Perkins Ln W	Slab & Rail Construction	168	2.5
RTW-067F	DISTRICT7	2323 Perkins Ln W	Slab & Rail Construction	108	4.5
RTW-067G	DISTRICT7	1959 Perkins Ln W	Slab & Rail Construction	187	4.5
RTW-067H	DISTRICT7	1925 Perkins Ln W At Montavista	Slab & Rail Construction	18	7
RTW-067I	DISTRICT7	Perkins Ln W Between Montivista And S/O	Slab & Rail Construction	190	4.5
RTW-068	DISTRICT7	Perkins Ln W Between Foot Of And Raye St	Rubble	12	5
RTW-069	DISTRICT7	32nd Ave W At W. Galer	Rubble	165	10
RTW-070	DISTRICT6	N 34th St At Aurora	Slab & Rail Construction	78	5
RTW-071	DISTRICT7	Republican St Between Eastlake And Yale	RC Reinforced Concrete	146	8
RTW-072	DISTRICT4	N Northlake Way Between 1st Ave NE And Eastern Ave N	Timber Pile & Lagging	12	4
RTW-073	DISTRICT4	S St At 52nd	RC Reinforced Concrete	475	15
RTW-074	DISTRICT1	Harbor Ave SW Between Hinds And Porter Way	Slab & Rail Construction	340	6
RTW-075	DISTRICT7	Dexter Ave N At E/O 4th N	Slab & Rail Construction	144	8
RTW-076	DISTRICT7	Dexter Ave N At NEwell	Concrete Gravity	420	9
RTW-077	DISTRICT2	Arrowsmith Ave S At Perry	RC Reinforced Concrete	79	14
RTW-078	DISTRICT7	27th Ave W At Armour	Rockery	270	8
RTW-079	DISTRICT3	Columbia St Between 7th And 8th	Slab & Rail Construction	135	10
RTW-081	DISTRICT1	SW 98th St At Seawall	RC Reinforced Concrete	56	4



APPENDIX B: RET WALL INVENTORY

ASSET ID	DISTRICT	LOCATION	WALL TYPE	LENGTH	MAX HEIGHT
RTW-082	DISTRICT2	Arrowsmith Ave S Between Norfolk And S/O	Concrete Gravity	480	5
RTW-083	DISTRICT2	S Alaska St At 33rd	Slab & Rail Construction	120	9
RTW-084	DISTRICT2	4415 S Brandon St	Slab & Rail Construction	60	10
RTW-086	DISTRICT2	38th Ave SW Between SW Andover St And Charlestown St	Slab & Rail Construction	320	10
RTW-087	DISTRICT7	13Th Ave W Between Gilman Dr And Raye	Slab & Rail Construction	510	7
RTW-088	DISTRICT7	12Th Ave W At Raye	RC Reinforced Concrete	260	11
RTW-090	DISTRICT7	W Nickerson St At E/O 11Th	Slab & Rail Construction	280	6
RTW-091	DISTRICT7	Humes Pl W Between 5th And Dravus	Concrete Gravity	105	3.5
RTW-092	DISTRICT7	8th Ave W At Crockett	Slab & Rail Construction	45	20
RTW-093	DISTRICT1	Delridge Way SW At SW Charlestown	Slab & Rail Construction	180	5
RTW-094	DISTRICT1	22nd Ave SW Between Andover And S/O	Slab & Rail Construction	123	6
RTW-095	DISTRICT1	Delridge Way SW At Dakota	Steel H-Pile & TM Lagging	57	9
RTW-096	DISTRICT1	21st Ave SW At Dakota	Slab & Rail Construction	25	3
RTW-097	DISTRICT1	23rd Ave SW Between Andover And S/O	Slab & Rail Construction	270	9
RTW-098	DISTRICT3	Lakeside Ave S At N/O Day	Concrete Gravity	490	5
RTW-099	DISTRICT2	S Jackson St Between 10th And I-5	Slab & Rail Construction	655	8
RTW-103	DISTRICT3	Boyer Ave E Between Roanoke And (I-90)	Slab & Rail Construction	255	9
RTW-104	DISTRICT3	32nd Ave S At Irving	Concrete Gravity	180	16
RTW-105	DISTRICT3	32nd Ave At Denny Way	Slab & Rail Construction	324	8
RTW-106	DISTRICT7	13Th Ave W Between Boston And Newton	Slab & Rail Construction	426	10
RTW-107	DISTRICT7	Thorndyke Pl W At Thorndyke	Slab & Rail Construction	80	5
RTW-108	DISTRICT7	14th Ave W Between Newton And Boston	Slab & Rail Construction	140	14
RTW-109	DISTRICT7	2501 14th Ave W Between Gilman Dr And Wheeler	Slab & Rail Construction	78	14
RTW-110	DISTRICT3	275 Dorffel Dr E At 37th	Concrete Gravity	30.2	6
RTW-111	DISTRICT3	39th Ave E At Lk Wash.Bv	RC Reinforced Concrete	420	24
RTW-112	DISTRICT1	6300 24th Ave SW At Longfellow Crk	Concrete Gravity	57	7
RTW-398	DISTRICT1	3rd Ave SW At Olson Pl	RC Reinforced Concrete	100	3
RTW-114	DISTRICT6	4117 Greenwood Ave N Between 41st And 42nd	Slab & Rail Construction	60	3
RTW-116	DISTRICT7	9th Ave W At Garfield	RC Reinforced Concrete	80	2
RTW-117A	DISTRICT7	8th Ave W Between Blaine And Galer	RC Reinforced Concrete	1200	17
RTW-117B	DISTRICT7	8th Ave W Between Galer And 7th	RC Reinforced Concrete	1300	19
RTW-117C	DISTRICT7	7th Ave W Between Howe And Crockett	RC Reinforced Concrete	750	24
RTW-118	DISTRICT4	7800 56th Ave NE At 56th Pl	Steel H-Pile & TM Lagging	61	7
RTW-120	DISTRICT7	Olympic Way W At 8th	Concrete Gravity	300	13
RTW-478	DISTRICT1	6331 46th Ave SW At SW Graham	Curb Wall	0	0
RTW-124	DISTRICT7	W Prospect St Between 6th And Willard	Concrete Gravity	345	14
RTW-125	DISTRICT1	Brook Ave SW At Hill	Slab & Rail Construction	66	3
RTW-126	DISTRICT7	W Comstock St At Willard	Guard Rail	18	2.5
RTW-127	DISTRICT7	Warren Ave N At Ward	RC Reinforced Concrete	52	8
RTW-128	DISTRICT7	Ward St At Warren	Concrete Gravity	170	7
RTW-129	DISTRICT4	Franklin Pl E At Newton	RC Reinforced Concrete	150	27
RTW-130	DISTRICT1	4731 22nd Ave SW At 21st	Steel H-Pile & RC Lagging	46	4
RTW-775C	DISTRICT1	Sylvan Way SW Between SW Othello St And SW Mytle St	RC Reinforced Concrete	165	5
RTW-133	DISTRICT1	Halleck Ave SW Between College And Bonair	Steel H-Pile & RC Lagging	524	12

ASSET ID	DISTRICT	LOCATION	WALL TYPE	LENGTH	MAX HEIGHT
RTW-134	DISTRICT1	Bonair Dr SW At Halleck	Concrete Gravity	156	20
RTW-135	DISTRICT3	E Interlaken Blv Between Delmar Dr And 11Th	Ecology Blocks	115	2.5
RTW-136	DISTRICT3	E Interlaken Blv At S/O Delmar	Slab & Rail Construction	240	5
RTW-137	DISTRICT3	E Interlaken Blv At S/O Delmar	RC Reinforced Concrete	274	11
RTW-140F	DISTRICT3	1415 E Interlaken Blv Between Delmar And 19th	Concrete Block	164	5
RTW-140G	DISTRICT3	1900 Interlaken Dr E	Steel H-Pile & TM Lagging	135	15
RTW-140H	DISTRICT3	E Interlaken Blv Between Interlaken And Dr.	Concrete Block	161	4
RTW-140J	DISTRICT3	Interlaken Blv Between 19th And Interlaken Dr	Concrete Gravity	385	9
RTW-140K	DISTRICT3	Interlaken Blv At Garfield	Rockery	135	3
RTW-775E	DISTRICT1	Sylvan Way SW Between SW Othello St And SW Mytle St	RC Reinforced Concrete	165	6
RTW-141	DISTRICT7	Republican St Between Westlake And Terry	Slab & Rail Construction	9	6
RTW-143	DISTRICT7	Terry Ave N Between Thomas And Harrison	RC Reinforced Concrete	372	5.5
RTW-144	DISTRICT7	John St Between Westlake And Terry	Slab & Rail Construction	70	11
RTW-145	DISTRICT3	Interlaken Dr E At Galer	Rubble	300	5
RTW-146	DISTRICT3	8th Ave Between Columbia And Marion	Slab & Rail Construction	240	20
RTW-147	DISTRICT3	8th Ave Between Columbia And 8th Ave	Concrete Gravity	117	9
RTW-148	DISTRICT7	Post Alley Between Virginia St And Stewart St	Slab & Rail Construction	78	6
RTW-149	DISTRICT7	1st Ave W Between Prospect And 1st Ave	Concrete Block	63	3
RTW-151	DISTRICT4	Inverness Dr NE Between Sandpoint Way And Inverness Ct NE	RC Reinforced Concrete	165	7
RTW-153	DISTRICT7	Olympic Way W Between 8th And 9th	Slab & Rail Construction	72	14
RTW-154H	DISTRICT5	10554 Riviera Pl NE At 105th St	Ecology Blocks	19	4
RTW-154L	DISTRICT5	12328 Riviera Pl NE	Brick	33	4
RTW-155	DISTRICT3	10th Ave E Between Garfield And N/O	RC Reinforced Concrete	91.3	1
RTW-158	DISTRICT7	Taylor Ave N At Crockett	RC Reinforced Concrete	27	5
RTW-159	DISTRICT7	Highland Dr At 2nd N	RC Reinforced Concrete	300	10
RTW-911	DISTRICT1	6960 & 6970 California Ave SW	RC Reinforced Concrete	180	19
RTW-161	DISTRICT2	9623 Rainier Ave S At Redwing	Slab & Rail Construction	40	10
RTW-162	DISTRICT2	5900 Rainier Ave S At Kenny	Slab & Rail Construction	84	10
RTW-163	DISTRICT3	Lake Wash. Blv Between Parkland And Judkins	Rubble	890	5
RTW-164	DISTRICT3	E High LaNE Between 37th And John	Concrete Gravity	217	4
RTW-165	DISTRICT7	Eastlake Ave E Between Harrison And N/O	RC Reinforced Concrete	70	5
RTW-167	DISTRICT5	NE 110th St At 40th	Slab & Rail Construction	124	3
RTW-169	DISTRICT3	Yesler Way Between 21st And 22nd	Concrete Gravity	0	14
RTW-170	DISTRICT7	Alaskan Way At Madison	Concrete Gravity	140	20
RTW-171	DISTRICT7	Alaskan Way At Columbia	Concrete Gravity	160	20.5
RTW-172	DISTRICT7	Alaskan Way Between Columbia And Washington	Concrete Gravity	180	20.5
RTW-173	DISTRICT7	Alaskan Way At Washington	Concrete Gravity	190	20
RTW-174	DISTRICT1	600 West Marginal Way SW	Slab & Rail Construction	159	4
RTW-971	DISTRICT1	SW Cambridge St Between Dead End 3 And 44th Ave SW	Soldier Pile	84	12
RTW-178E	DISTRICT1	Beach Dr Between Villa Pl And Jacobson	Composite	70	12
RTW-181	DISTRICT7	423-25 Eastlake Ave E Between Harrison And Republican	RC Reinforced Concrete	70	4
RTW-184	DISTRICT7	Westlake Ave N At Dexter	Slab & Rail Construction	300	5

APPENDIX B: RET WALL INVENTORY

ASSET ID	DISTRICT	LOCATION	WALL TYPE	LENGTH	MAX HEIGHT
RTW-185	DISTRICT7	3020 Westlake Ave N	Slab & Rail Construction	106	14
RTW-186	DISTRICT7	Yesler Way Between Prefontaine And E Pl	Concrete Gravity	30	7
RTW-187	DISTRICT3	Yesler Way At Dilling Way	RC Reinforced Concrete	260	14
RTW-188	DISTRICT3	26th Ave E At Thomas	Slab & Rail Construction	52	2.5
RTW-189	DISTRICT1	8600 Fauntleroy Pl SW	RC Reinforced Concrete	108	4
RTW-190	DISTRICT1	3855 17th Ave SW At Andover	Slab & Rail Construction	156	4
RTW-191	DISTRICT3	35th Ave Between Union And Marion	Concrete Gravity	228	10
RTW-192	DISTRICT1	49th Ave SW At 98th	Gabion	40	13
RTW-193A	DISTRICT1	3300 Admiral Way SW Between City View And Hinds St	Slab & Rail Construction	348	8
RTW-193B	DISTRICT1	SW Admiral Way Between City View And Hinds	Steel H-Pile & RC Lagging	120	9
RTW-194	DISTRICT4	15th Ave NE Between Ravenna Bl And Cowan Pl	RC Reinforced Concrete	308	3.1
RTW-195	DISTRICT2	Mlk Jr Way S At S Bayview St	Composite	270	9
RTW-197	DISTRICT4	NE 55th St Between University And Brooklyn	RC Reinforced Concrete	50	3
RTW-198	DISTRICT4	56th Ave NE At 56th	Timber Pile & Lagging	61	7
RTW-199	DISTRICT7	Galer (1st N) Pl N At Galer St	Steel H-Pile & TM Lagging	100	5
RTW-200	DISTRICT7	2nd Ave N At N/O Ward	Concrete Gravity	80	4
RTW-373	DISTRICT2	3318 19th Ave S	Slab & Rail Construction	10	4
RTW-204A	DISTRICT7	14th Ave W Between Garfield And Galer	Slab & Rail Construction	90	2
RTW-204B	DISTRICT7	14th Ave W Between Garfeild And Galer	Steel H-Pile & RC Lagging	288	17
RTW-206	DISTRICT7	2110 Waverly Pl N At Crockett	Slab & Rail Construction	65	7
RTW-207	DISTRICT2	18th Ave S At Walker	Slab & Rail Construction	85	6
RTW-208	DISTRICT7	Prospect St At W/O 6th N.	Composite	42	8
RTW-210	DISTRICT7	5th Ave N At Lynn	RC Reinforced Concrete	34	4
RTW-211	DISTRICT2	Waters Ave S At Thayer	RC Reinforced Concrete	321	8
RTW-212	DISTRICT4	22nd Ave NE At N/O 47th	Slab & Rail Construction	85	7
RTW-213	DISTRICT7	Republican St At 5th N.	RC Reinforced Concrete	108	7
RTW-217	DISTRICT7	Western Ave At Union	RC Reinforced Concrete	67	21
RTW-218	DISTRICT7	Elliott Ave Between Broad And Clay	RC Reinforced Concrete	412	6
RTW-219	DISTRICT7	Mercer St At Eastlake	RC Reinforced Concrete	54	5
RTW-220	DISTRICT4	515 Eastlake Ave Between 515 And 519	RC Reinforced Concrete	40	6
RTW-221	DISTRICT7	511 Mercer St	RC Reinforced Concrete	39	15.1
RTW-225	DISTRICT7	Westlake Ave N At Lower Road	RC Reinforced Concrete	80	5
RTW-226	DISTRICT5	Sandpoint Way NE Between 86th And 87th	Timber Pile & Lagging	1090	5
RTW-227	DISTRICT5	35th NE 110th Between 110th And 111Th	RC Reinforced Concrete	229	3.7
RTW-228	DISTRICT5	128th St N Between Stone Ave And Ashworth	Slab & Rail Construction	556	9
RTW-229	DISTRICT7	Blanchard 1st Ave At 1st Ave	RC Reinforced Concrete	52	7
RTW-230	DISTRICT4	41st Ave NE At 41st	Timber Pile & Lagging	159	4
RTW-232	DISTRICT7	Harrison St Between Boren St And Harrison	RC Reinforced Concrete	249	5.5
RTW-233	DISTRICT7	Terrace & 4th Ave Between 4th And 5th	RC Reinforced Concrete	55	23
RTW-238	DISTRICT2	S Washington St Between 5th And 6th	RC Reinforced Concrete	217	14
RTW-239	DISTRICT3	S Lake Washington Blv Between Lk Park Dr And Lk Wash Bl	RC Reinforced Concrete	1067	4
RTW-240	DISTRICT7	W 15th Ave At Gilman	Concrete Gravity	84	7
RTW-241	DISTRICT7	W Gilman Dr Between Wheeler And 14th Ave	Slab & Rail Construction	140	10

ASSET ID	DISTRICT	LOCATION	WALL TYPE	LENGTH	MAX HEIGHT
RTW-619A	DISTRICT2	1550 S Atlantic St Between 16th Ave S And Sturgus Ave S	RC Reinforced Concrete	110	14
RTW-243	DISTRICT7	W 11Th Ave At 11Th Ave	Concrete Gravity	45	2.5
RTW-244	DISTRICT7	W Highland Dr At 10th Ave W	Concrete Gravity	24.7	2
RTW-245	DISTRICT7	12Th Ave Between Raye St And Gilman St	RC Reinforced Concrete	596	12
RTW-246	DISTRICT7	W 11Th Ave At Wheeler	RC Reinforced Concrete	590	19
RTW-247	DISTRICT7	N Queen Anne Ave	RC Reinforced Concrete	61	2
RTW-249	DISTRICT6	N Market St Between Palatine And Greenwood	Concrete Gravity	103	6
RTW-250	DISTRICT6	NW 1st Ave Between 47th And 46th	RC Reinforced Concrete	383	14.5
RTW-251	DISTRICT6	N Market St Between Market St And 1st Ave	Slab & Rail Construction	31	3
RTW-252A	DISTRICT6	NW Market & Baker Ave Between Market And Baker	Concrete Gravity	146	7
RTW-253	DISTRICT6	NW Baker Ave Between Baker Ave And Market Ave	RC Reinforced Concrete	79	5
RTW-255	DISTRICT7	Raye St Between Raye St And Magnolia	RC Reinforced Concrete	60	2
RTW-258	DISTRICT7	James St Between James St And 3rd Ave	RC Reinforced Concrete	75	10
RTW-259	DISTRICT7	James St Between James St And 2nd Ave	RC Reinforced Concrete	36	16
RTW-261	DISTRICT3	Boren Ave At Fir St	Concrete Gravity	80	4
RTW-262	DISTRICT2	S Rainier Ave	Slab & Rail Construction	57	5
RTW-263	DISTRICT3	S 31st Ave Between 31st And King St	RC Reinforced Concrete	146	7
RTW-10A	DISTRICT7	Gilman Dr W Between 14th Ave W and 15th Ave W		119	6
RTW-268	DISTRICT3	S Charles St Between So.Charles And Lk Washing	Concrete Gravity	29	1
RTW-776B	DISTRICT2	5508 31st Ave S At Lucile St	Steel H-Pile	0	0
RTW-270	DISTRICT2	46th Ave S Between 46th Ave And S. Bradfor	RC Reinforced Concrete	67	3
RTW-271	DISTRICT7	Kinnear Pl W Between 1st Ave And 2nd Ave	Concrete Gravity	135	6
RTW-274	DISTRICT2	48th Ave S Between 48th Ave And S. Oregon	RC Reinforced Concrete	12.6	1
RTW-279	DISTRICT2	S Main St Between Maynard And 7th Ave	Slab & Rail Construction	321	7
RTW-283	DISTRICT3	15th Ave At Madison	Composite	239	2
RTW-286	DISTRICT3	E Terrace St Between E Terrace St And 33rd Ave	Slab & Rail Construction	73	8
RTW-287	DISTRICT3	36th Ave Between E Columbia And 37th Ave	RC Reinforced Concrete	40	4
RTW-288	DISTRICT3	36th Ave Between 36th And E. Marion	RC Reinforced Concrete	80	4
RTW-289	DISTRICT3	36th Ave At E. Union	RC Reinforced Concrete	36	2.2
RTW-290	DISTRICT7	Republican St Between Boren Ave And Fairview	Concrete Gravity	70	9
RTW-291	DISTRICT7	W Kinnear Pl At 5th Ave W	Concrete Gravity	123	5.5
RTW-292	DISTRICT7	W Prospect St Between 7th And Willard Av	Concrete Gravity	189	2
RTW-804	DISTRICT2	9736 Lindsay Pl S Between Roxbury St and S Pilgrim St	RC Reinforced Concrete	115	8
RTW-294	DISTRICT7	9th Ave W Between 9th Ave W And W Blaine St	Concrete Gravity	79	2.5
RTW-296	DISTRICT7	Gilman Ave W Between Gay Ave And Gilman Ave	Steel H-Pile & TM Lagging	90	4
RTW-301	DISTRICT3	E Lynn St Between E Lynn St And 24th Ave E	RC Reinforced Concrete	57	10
RTW-302	DISTRICT4	35th Ave NE Between NE 75th And NE 77th	Concrete Gravity	81	7
RTW-306	DISTRICT7	Bell St At 1st Ave	RC Reinforced Concrete	60	11
RTW-307	DISTRICT7	Alley Between Blanchard And Lenora St	RC Reinforced Concrete	180	6
RTW-308	DISTRICT7	Terry Ave At Union St	RC Reinforced Concrete	317	3.5
RTW-891	DISTRICT2	9700 Rainier Ave S	RC Reinforced Concrete	80	7
RTW-33	DISTRICT3	Eastlake Ave at Prospect	RC Reinforced Concrete	345	6



APPENDIX B: RET WALL INVENTORY

ASSET ID	DISTRICT	LOCATION	WALL TYPE	LENGTH	MAX HEIGHT
RTW-113	DISTRICT3	E Olive St Between Lake Washington and 40th		44	3
RTW-318	DISTRICT3	605 24th Ave E Between E Roy St And E Mercer	Concrete Gravity	120	7
RTW-318A	DISTRICT3	603 24th Ave E Between E Thomas St And E Harrison St	Concrete Gravity	103	8
RTW-319	DISTRICT7	Pike St Between 1st Ave And Post Alley	RC Reinforced Concrete	0	13
RTW-132	DISTRICT3	University St at 9th	RC Reinforced Concrete	76	5
RTW-327	DISTRICT5	15th Ave NE Between NE 130th St And NE Brockman Pl	Rockery	476	8
RTW-140L	DISTRICT3	Interlaken Blv At 22nd Ve Ext	Rockery	70	3
RTW-331	DISTRICT5	Pinehurst At NE 115th	Rockery	135	8
RTW-160	DISTRICT3	818 S Poplar Pl Between S Dean St and S Charles St	Slab & Rail Construction	50	14
RTW-335	DISTRICT7	10th Ave W At 10th Ave	Slab & Rail Construction	25	4
RTW-336	DISTRICT7	12Th Ave W At 12Th Ave	Steel H-Pile & RC Lagging	135	15
RTW-123	DISTRICT7	7th Ave W at Galer		40	23
RTW-339	DISTRICT1	26th Ave SW Between SW Portlan And SW Holden	Steel H-Pile & TM Lagging	72	5
RTW-340A	DISTRICT1	9318 Califrnia Ave SW	Steel H-Pile & TM Lagging	46	12
RTW-340B	DISTRICT1	9318 California Ave SW	Timber Pile & Lagging	0	0
RTW-340C	DISTRICT1	9318 California Ave SW	Rockery	85	6
RTW-341	DISTRICT5	Brooks Ave SW	Gabion	50	9
RTW-342	DISTRICT2	Rainier Ave S Between Rainier St And Kenny St	Slab & Rail Construction	0	5
RTW-343	DISTRICT2	933 Sturgus Ave S Between S Charles St And 16th Ave S	Slab & Rail Construction	140	5
RTW-344	DISTRICT6	Phinney Ave N Between 57th St And SW Corner Of Br	Slab & Rail Construction	5	9
RTW-345	DISTRICT2	13Th Ave S Between Beacon Ave And S Lander	Slab & Rail Construction	81	5
RTW-346	DISTRICT2	54th Ave S Between S Pearl St And S Farrar St	Slab & Rail Construction	32	7
RTW-347	DISTRICT1	45th Ave SW At SW Brace P	Slab & Rail Construction	98.5	3
RTW-349	DISTRICT1	52nd Ave SW Between SW College And Hughes SW	Timber Pile & Lagging	268	9
RTW-350	DISTRICT7	4th Ave N Between Smith And Wheeler	RC Reinforced Concrete	0	5
RTW-351	DISTRICT7	11Th Ave W At W Galer	Steel H-Pile & TM Lagging	75	16
RTW-352	DISTRICT4	N 36th Ave At Interlake	Slab & Rail Construction	40	8
RTW-269	DISTRICT3	Lake Park Dr Between Lake Wash Blvd And Lake Washington	RC Reinforced Concrete	40	5
RTW-353A	DISTRICT3	Portage Bay Pl E Between E Allison St And E Martin St	Steel H-Pile & TM Lagging	333	8
RTW-355	DISTRICT7	Mercer St At 3rd Ave N	Rockery	0	0
RTW-356	DISTRICT3	36th Ave S At S.Of James	Timber Pile & Lagging	60	5
RTW-357	DISTRICT4	705 NE Northlake Way	RC Reinforced Concrete	0	0
RTW-359	DISTRICT7	12Th Ave W Between Blaine And Garfield	Steel H-Pile & RC Lagging	107	12
RTW-359C	DISTRICT7	W Galer St At 11Th Ave W	Steel H-Pile & RC Lagging	168	12
RTW-361	DISTRICT7	Queen Anne Ave N At W Galer	RC Reinforced Concrete	46	7
RTW-362	DISTRICT3	Bellevue Pl	Steel H-Pile & TM Lagging	100	8
RTW-325	DISTRICT3	6th Ave At Jefferson	RC Reinforced Concrete	0	6
RTW-366	DISTRICT2	S Hudson St At 39th Ave	Timber Pile & Lagging	257	22
RTW-368	DISTRICT7	1401 Dexter Ave N	RC Reinforced Concrete	100	5.2

ASSET ID	DISTRICT	LOCATION	WALL TYPE	LENGTH	MAX HEIGHT
RTW-369A	DISTRICT1	Boyd Pl SW At Chilberg Pl SW	Steel H-Pile & RC Lagging	192	13
RTW-369B	DISTRICT1	Boyd Pl SW At Chilberg Pl SW	Steel H-Pile & RC Lagging	75	5
RTW-372	DISTRICT3	1018 20th Ave S	Rockery	140	12
RTW-353	DISTRICT3	Portage Bay Pl E At E Allison St	Slab & I Beams	0	0
RTW-374	DISTRICT2	Angeline St At E Rainier	RC Reinforced Concrete	0	11
RTW-376	DISTRICT1	California Ave SW Between Brace Pt And Barton St	Concrete Gravity	92	4
RTW-377	DISTRICT7	Alley Between 8th Ave W And 9th Ave W	Concrete Gravity	40	10
RTW-378	DISTRICT7	7th Ave W At N. Olympic	Rockery	37	5
RTW-380	DISTRICT7	1607 9th Ave W	Rockery	40	12
RTW-381	DISTRICT7	W Crockett St At W Of 10th	Concrete Gravity	54	10
RTW-382	DISTRICT7	W Armour St At E Of 39th	Rockery	30	6
RTW-383	DISTRICT7	W Armour St At 24th Av W	Rockery	40	5
RTW-384	DISTRICT7	Republican St Between 1st Av N And Warren Av	Concrete Gravity	67	6
RTW-385	DISTRICT7	W Viewmont Way W At W Parkmont Pl	Brick	125	3
RTW-386	DISTRICT6	6017 Seaview Ave NW	Rockery	100	7
RTW-387	DISTRICT7	10th Ave W Between W Blaine And W Howe	Rockery	100	10
RTW-388	DISTRICT2	Alaska St Between W Of Ranier And 35th Ave S	Timber Pile & Lagging	94.7	10
RTW-389	DISTRICT3	1630 36th Ave	Concrete Gravity	95	5
RTW-391	DISTRICT3	Crescent Dr Between 19th Ave And 23rd Ave	Rockery	1369	11
RTW-392	DISTRICT3	Lakeside Ave S At Jackson St	Slab & Rail Construction	188	6
RTW-394	DISTRICT1	Brook Ave SW At SW Holgate	Concrete Gravity	40	5
RTW-396	DISTRICT1	4437 Glenn Way SW	Stone Block	35	6
RTW-175	DISTRICT7	Post Ave at University		45	8
RTW-399	DISTRICT1	9439 Olson Pl SW	Rockery	552	14
RTW-400	DISTRICT7	Pike Pl Between Pike St And Pine St	Slab & Rail Construction	0	0
RTW-401	DISTRICT6	356 NE 53rd St At 5th Ave NE	Concrete Gravity	60	3
RTW-404	DISTRICT3	611 26th Ave Between E Roy St And E Mercer	Concrete Gravity	55	4.5
RTW-407	DISTRICT3	Schubert Pl Between 36th Ave And 37th Ave	Concrete Gravity	0	20
RTW-409	DISTRICT7	15th Ave W	Concrete Gravity	498	9
RTW-411	DISTRICT7	Valley St At Warren Ave	Concrete Gravity	50	3
RTW-414	DISTRICT4	8516 Sandpoint Way NE	Concrete Block	70	4
RTW-419	DISTRICT7	Aurora Ave N At Halladay	Concrete Gravity	98.4	7.5
RTW-422	DISTRICT7	Aurora Ave N Between Galer St And Hayes St	Rockery	200	6
RTW-423	DISTRICT7	527 Fairview Ave N	Rubble	64	10
RTW-425	DISTRICT3	2833 11Th Ave E	Concrete Gravity	185	4
RTW-202	DISTRICT7	5th Ave N Between Harrison and Mercer		245	15
RTW-429	DISTRICT3	921 20th Ave	Concrete Gravity	40	6
RTW-432	DISTRICT1	4831 35th Ave SW	Concrete Gravity	584	8
RTW-433	DISTRICT7	1314 Howell St	Timber Pile & Lagging	47	5
RTW-434	DISTRICT1	Harbor Ave SW	Rockery	1760	8
RTW-242	DISTRICT7	W Gilman Dr At Gilman		0	0
RTW-435	DISTRICT7	W Garfield St At 12Th Ave W	Steel H-Pile & RC Lagging	120	2
RTW-439	DISTRICT3	Mc Gilvra Blv	Ecology Blocks	75	4
RTW-442	DISTRICT1	Bonair Dr SW	Slab & Rail Construction	117	8

APPENDIX B: RET WALL INVENTORY

ASSET ID	DISTRICT	LOCATION	WALL TYPE	LENGTH	MAX HEIGHT
RTW-443	DISTRICT3	Alley Between 17th E And 18th E	Concrete Gravity	98	1
RTW-445	DISTRICT4	N 35th St Between Northlake Way And Lake Union	RC Reinforced Concrete	40	6
RTW-446	DISTRICT7	4734 W Bertonia At Perkins L	Composite	27	9
RTW-447	DISTRICT7	Perkins Ln At Raye St	Slab & Rail Construction	100	4
RTW-448	DISTRICT1	SW Admiral Way At Harbor Ave	Concrete Block	48	3
RTW-449	DISTRICT1	10410 47th Ave SW	Slab & Rail Construction	56	10
RTW-450	DISTRICT6	NW 92nd At 24th NW	Pin Pile Construction	92	4
RTW-451	DISTRICT3	3436 E Huron	Rockery	81	16
RTW-452	DISTRICT4	NE 45th St Between 22nd Ave NE And Ravenna Ave	Rockery	30	4
RTW-453	DISTRICT5	13500 41st Ave NE	Concrete Gravity	110	4
RTW-454	DISTRICT1	5445 16th Ave SW	Rockery	40	4
RTW-455	DISTRICT1	47th Ave SW At Maple Wood Pl	Gabion	360	12
RTW-456	DISTRICT2	9808 63rd Ave S	Rockery	140	10
RTW-459	DISTRICT3	32nd Ave At Lake Dell Ave	Concrete Gravity	40	10
RTW-461	DISTRICT2	Alley Between S Hill St And S Walker	Rockery	90	6
RTW-462	DISTRICT3	1501 18th Ave S Between S Lakeway And 18th Ave S	RC Reinforced Concrete	144	7
RTW-463	DISTRICT7	32nd Ave W Btwn W Blaine And W Hayes St	Rockery	124	5
RTW-466	DISTRICT1	Hobart Ave SW At 53rd Av SW	Concrete Gravity	60	4
RTW-467	DISTRICT6	1st Ave NW At S Of 36th	Concrete Gravity	50	24
RTW-468	DISTRICT5	NE 98th St At 20th Av NE	Timber Pile & Lagging	276	14.5
RTW-469A	DISTRICT6	Golden Gardens Dr NW Between View Ave NW And Seaview Pl NW	Steel H-Pile & RC Lagging	160	23
RTW-469B	DISTRICT6	Golden Gardens Dr NW Between View Ave NW And Seaview Pl NW	Soil Nail Construction	38	7
RTW-469C	DISTRICT6	Golden Gardens Dr NW Between View Ave NW And Seaview Pl NW	Soil Nail Construction	90	9
RTW-470	DISTRICT7	S Washington St At W Of 4th	RC Reinforced Concrete	62	2
RTW-471	DISTRICT3	E Miller St At 13Th Ave E	Concrete Gravity	85	9
RTW-476	DISTRICT1	4317 SW Cambridge St At 44th Av SW	Rockery	215	13
RTW-477	DISTRICT5	85th Ave At Wallingfor	RC Reinforced Concrete	254	6
RTW-265	DISTRICT3	S 31st Ave Between 31st Ave And S. Alantic		20	3
RTW-479	DISTRICT3	1302 Lakeside Ave S At S Judkins St	Steel H-Pile & RC Lagging	56	12
RTW-485B	DISTRICT1	W Marginal Way At SW Bikeway	Composite	925	9.6
RTW-488B	DISTRICT2	S Jackson Between 3rd Ave S And 2nd Ave Ex. S	Concrete Gravity	58	20
RTW-493	DISTRICT7	4613 33rd Ave W	Steel H-Pile & TM Lagging	16	6
RTW-498	DISTRICT7	Alaskanseawal Way Between Washington St And Bay St	Composite	6416	20
RTW-500A	DISTRICT1	10401 47th Ave SW	Steel H-Pile & TM Lagging	57	10
RTW-501A	DISTRICT1	10400 47th Ave SW	Gabion	36	3
RTW-501B	DISTRICT1	10400 47th Ave SW	Gabion	127	5.2
RTW-505	DISTRICT4	15th Ave NE At 45th St	RC Reinforced Concrete	0	7
RTW-506	DISTRICT4	2503 N Pacific St	Timber Pile & Lagging	30	4
RTW-507	DISTRICT7	Denny Way At Terry Ave	RC Reinforced Concrete	25	4
RTW-509	DISTRICT6	20th Ave NW	Concrete Gravity	40	6
RTW-511	DISTRICT7	7th Ave W At W Galer	RC Reinforced Concrete	122	25

ASSET ID	DISTRICT	LOCATION	WALL TYPE	LENGTH	MAX HEIGHT
RTW-512A	DISTRICT6	8th Ave NW At Holman Rd	RC Reinforced Concrete	35	2
RTW-512B	DISTRICT6	8th Ave NW Between Holman Rd	RC Reinforced Concrete	47	3
RTW-512C	DISTRICT6	8th Ave NW Between NW 97th St	RC Reinforced Concrete	36	9
RTW-513	DISTRICT1	48th Ave SW At SW 98th St	Concrete Gravity	72	3.5
RTW-514	DISTRICT2	10th Ave S At S Weller	Rockery	110	4.5
RTW-293	DISTRICT7	7th Ave W Between 7th And W. Lee St.		170	15
RTW-517	DISTRICT1	10045 47th Ave SW	Timber Cribblock	53	5
RTW-518	DISTRICT5	234 NE 95th St Between 25th Ave NE And 23rd Ave NE	Rockery	0	3
RTW-523	DISTRICT5	NE 115th St Between 4th Ave NE And 5th Ave NE	Rockery	0	0
RTW-524A	DISTRICT6	Holman Rd NW Between 9th Ave NW And 12Th Ave NW	Rockery	730	10.5
RTW-524B	DISTRICT6	Holman Rd NW Between 11Th Ave NW And 12Th Ave NW	Rockery	340	11
RTW-524C	DISTRICT6	Holman Rd NW Between 9th Ave NW And 11Th Ave NW	Rockery	140	6
RTW-526A	DISTRICT5	NE Northgate Way Between 17th Ave NE And 19th Ave NE	Rockery	65	4
RTW-526B	DISTRICT5	Northgate Way NE Between 17th Ave NE And 19th Ave NE	Rockery	122	3
RTW-526C	DISTRICT5	NE Northgate Way Between 20th Ave NE And 23rd Ave NE	Rockery	115	3
RTW-526D	DISTRICT5	NE Northgate Way Between 23rd And 24th	Rockery	41	4
RTW-526E	DISTRICT5	NE Northgate Way Between 23rd And 24th	Rockery	70	4
RTW-526G	DISTRICT5	NE Northgate Way Between 24th Ave NE And Lake City Way	Rockery	215	11
RTW-526H	DISTRICT5	NE Northgate Way Between 24th Ave NE And Lake City Way	Rockery	119	7
RTW-526I	DISTRICT5	NE Northgate Way Between 24th And Lake City Way	Rockery	65	6
RTW-526J	DISTRICT5	NE Northgate Way Between 24th And Lake City Way	Rockery	50	4
RTW-526K	DISTRICT5	NE Northgate Way Between 113Th St And Lake City Way	Rockery	157	5
RTW-528	DISTRICT3	3520 Conover Court	RC Reinforced Concrete	9	4
RTW-531	DISTRICT7	8th Ave W	Concrete Gravity	50	8
RTW-532	DISTRICT7	Galer St Between Aurora N And 6th Ave N	Concrete Block	75	6
RTW-533	DISTRICT1	3023 SW Orleans St	Concrete Gravity	100	5
RTW-534	DISTRICT7	8th Ave W At W/O W. Lee	Concrete Gravity	12	5
RTW-536	DISTRICT4	NE 80th St At E/O 25th	Rockery	300	0
RTW-541	DISTRICT4	N 34th St Between Albion Pl And Woodland	RC Reinforced Concrete	110	5
RTW-542	DISTRICT4	N 34th St Between Stone Wy N And N N.Lake	Ecology Blocks	312	5
RTW-543	DISTRICT7	8th Ave N Between Mcgraw And Wheeler St	RC Reinforced Concrete	0	0
RTW-544	DISTRICT1	7709 16th Ave SW Between SW Holden And SW Kenyon	Rockery	200	4.5
RTW-545	DISTRICT3	E Pine St Between 27th And M.L.K. Way	RC Reinforced Concrete	162	4
RTW-551	DISTRICT7	Galer St Between Dexter Ave And Aurora Ave	RC Reinforced Concrete	80	6
RTW-553	DISTRICT6	3280 NW Esplanade St Between NW 96th St And NW 95th St	Slab & Rail Construction	72	4



APPENDIX B: RET WALL INVENTORY

ASSET ID	DISTRICT	LOCATION	WALL TYPE	LENGTH	MAX HEIGHT
RTW-554	DISTRICT3	19th Ave Between E.Pike St And E.Union St	Concrete Gravity	100	5
RTW-555	DISTRICT5	24th Ave NE Between NE 125th And NE 124th	Rockery	2101	11
RTW-557	DISTRICT7	Howe St Between Dexter Ave And Aurora Ave	RC Reinforced Concrete	48	8
RTW-558	DISTRICT1	Seola Beach Dr SW Between SW 118th And Pugetsound	Timber Pile & Lagging	69	5
RTW-561	DISTRICT5	12704 Roosevelt Way NE Between 10th Ave NE And 8th Ave NE	Rockery	155	7
RTW-563	DISTRICT3	S Massachusetts St Between 23rd Ave S And 24th Ave S	RC Reinforced Concrete	0	5.8
RTW-564	DISTRICT1	1st Ave SW Between Olson Pl And Henderson	Ecology Blocks	160	5
RTW-566	DISTRICT1	9230 38th Ave SW Between Bernice And Cambridge	RC Reinforced Concrete	25	12
RTW-568	DISTRICT1	10427 47th Ave SW	Concrete Block	177	13
RTW-569	DISTRICT1	32nd Ave SW Between SW Holly And SW Willow	RC Reinforced Concrete	78	11
RTW-571	DISTRICT1	10447 47th Ave SW	Concrete Block	30	9
RTW-571A	DISTRICT1		Steel H-Pile & TM Lagging		8
RTW-575	DISTRICT7	W Eaton St Between Magnolia And 30th Ave	Rockery	107	20
RTW-576	DISTRICT3	Lk Washington Blv E Between E Superior And E Alder	Concrete Gravity	120	6
RTW-580	DISTRICT1	4005 SW Massachusetta St	Steel H-Pile & TM Lagging	63	10
RTW-583A	DISTRICT2	S Plummer St Between 8th Ave S And 7th Ave S Ssos	Steel H-Pile & RC Lagging	94	22
RTW-583B	DISTRICT2	S Plummer St Between 8th Ave S And 7th Ave S	RC Reinforced Concrete	109	22
RTW-583C	DISTRICT2	8th Ave S Between S Plummer St And Airport Way S	Steel H-Pile & RC Lagging	128	14
RTW-583D	DISTRICT2	7th Ave S Between S Plummer St And Airport Way S	Steel H-Pile & RC Lagging	209	14
RTW-588	DISTRICT7	9th Ave W Between Garfield St And Galer St	Concrete Gravity	82	8
RTW-591	DISTRICT2	Mlk Jr Way S Between Renton Ave S And S Bradford St	Rockery	760	8
RTW-309	DISTRICT7	Union St Between Pike St And Union St		75	4
RTW-596B	DISTRICT3	1130 Eastlake Ave E Between Oregon Pl And Almy St	Composite	200	17
RTW-602	DISTRICT1	W Marginal Way Between Spokane St And Chelan St	RC Reinforced Concrete	0	0
RTW-312	DISTRICT7	Elliott Ave Between Elliott Ave And Denny Way		423	9.5
RTW-316	DISTRICT7	Western Ave Between Virginia St And Pine St		574	20
RTW-603C	DISTRICT7	South Ship Canal Between Fremont Br. And Ballard Br.	RC Reinforced Concrete	169	12
RTW-605	DISTRICT5	Roosevelt Way NE Between NE 105th St And NE 108th St	Composite	482	17
RTW-611D	DISTRICT5	1916 NE 125th St Between 19th Ave NE And 20th Ave NE	Rockery	240	11
RTW-328	DISTRICT5	15th Ave NE At NE 135th		508	15.5
RTW-612A	DISTRICT5	9401 35th Ave NE Between NE 94th St And NE 95th St	Composite	124	8.5
RTW-614	DISTRICT1	6547 Beach Dr SW Between Atlas Pl SW And 48th Ave SW	Concrete Gravity	0	0
RTW-363	DISTRICT6	7450 E Greenlake Dr N		75	5.5

ASSET ID	DISTRICT	LOCATION	WALL TYPE	LENGTH	MAX HEIGHT
RTW-619C	DISTRICT2	1501 S Atlantic St Between 16th Ave S And Sturgus Ave S	RC Reinforced Concrete	55	11
RTW-619D	DISTRICT2	16th Ave S Between Atlantic And Sander Rd S	Rockery	70	5
RTW-622A	DISTRICT6	206 NW 39th St Between Leary Way NW And 2nd Ave NW	RC Reinforced Concrete	8	5
RTW-622B	DISTRICT6	NW 39th St Between Leary Way And 2nd Ave NW	RC Reinforced Concrete	70	4.5
RTW-625	DISTRICT5	Linden Ave N Between 135th Ave N And 136th Ave N	RC Reinforced Concrete	164	6
RTW-626A	DISTRICT1	Seola Beach Dr SW Between SW 107th St And SW 108th St	Gabion	24	9
RTW-626B	DISTRICT1	Seola Beach Dr SW Between SW 107th St And SW 118th Pl	Ecology Blocks	24	4
RTW-628	DISTRICT4	N 46th St Between Aurora Ave N And Aurora Ave N	Rubble	115	4
RTW-630	DISTRICT7	Queen Anne Blv Between 8th Ave And Blaine	Concrete Gravity	300	1
RTW-631	DISTRICT7	8th Ave W Between Blaine And Highland Dr	Concrete Gravity	0	8
RTW-633	DISTRICT7	6th Ave Between Elliott And Mercer	Steel H-Pile & RC Lagging	88	6
RTW-635	DISTRICT4	N Northlake Way Between Corliss And Waterway 18	Composite	40	6
RTW-636	DISTRICT5	Lakecity Way NE At 95th St	Steel H-Pile & RC Lagging	237	16
RTW-637	DISTRICT7	Magnolia Blv W Between Dravus St And Barrett St	Concrete Block	96	11
RTW-641	DISTRICT5	4249 NE 89 St At 45th Ave NE	Concrete Block	72	14
RTW-642	DISTRICT1	50th Ave SW At 98th St	Steel H-Pile & RC Lagging	64	8
RTW-643	DISTRICT1	California Way SW At Ferry Ave SW	Concrete Block	158	25
RTW-644	DISTRICT1	23rd Ave SW At Dakota St	Steel H-Pile & RC Lagging	108	4
RTW-646	DISTRICT1	Sunset Ave SW At 45th Ave SW	Steel H-Pile & RC Lagging	68	15
RTW-648	DISTRICT6	25th Ave NW Between 92nd And 93rd St	Gabion	6	7
RTW-649	DISTRICT3	13Th Ave E Between E. Lynn St. And E. Miller St.	RC Reinforced Concrete	80	10.5
RTW-650	DISTRICT3	E Olin Pl Between 15th Ave E And Olin Pl E	RC Reinforced Concrete	250	2
RTW-651	DISTRICT4	NE Pacific St Between University Way And Brooklyn Ave NE	Rockery	97	4.5
RTW-652	DISTRICT4	NE Pacific St At 15th Ave NE	Rockery	160	5.5
RTW-654	DISTRICT7	Magnolia Way W At Garfield St	RC Reinforced Concrete	265	30
RTW-655	DISTRICT1	Myers Way S Between SW Roxbury St And S 99th St	Reinforced Earth	0	0
RTW-661	DISTRICT7	Dexter Ave N Between Garfield And Blaine St	Steel H-Pile & RC Lagging	60	12.5
RTW-662	DISTRICT7	5th Ave N Between Lynn And Mcgraw	Steel H-Pile & RC Lagging	195	10
RTW-662A	DISTRICT7	Dexter Way N Between Lynn St And Aurora Ave N	Augercast RC Piles	200	6
RTW-662B	DISTRICT7	Dexter Way N Between Lynn St And Aurora Ave N	Pin Pile Construction	255	3
RTW-663	DISTRICT7	2355 Perkins Ln W Between Mcgraw St And Crockett St	Steel H-Pile & RC Lagging	64	8
RTW-664	DISTRICT7	3005 Perkins Ln W Between Barrett St And Dravus St	Steel H-Pile & RC Lagging	168	8
RTW-666B	DISTRICT7	W Nickerson St Between 8th Ave W And 6th Ave W	Steel H-Pile & RC Lagging	40	6
RTW-667	DISTRICT2	3007 S Court St Between Rainier Ave S And S Charlestown	Rockery	50	5.5
RTW-670	DISTRICT1	5223 Beach Dr SW Between Canada Dr SW And Bruce St SW	Rockery	21	8

APPENDIX B: RET WALL INVENTORY

ASSET ID	DISTRICT	LOCATION	WALL TYPE	LENGTH	MAX HEIGHT
RTW-671	DISTRICT7	2572 14th Ave W Between Raye St W And Raye St W	Timber Criblock	20	2.5
RTW-672	DISTRICT5	NE 105th St Between Lake City Way And 27th Ave NE	Steel H-Pile & RC Lagging	85	14
RTW-678A	DISTRICT7	W Crockett St Between 9th Ave W And 10th Ave W	RC Reinforced Concrete	117	9
RTW-678B	DISTRICT7	W Crockett St Between 9th Ave W And 10th Ave W	Concrete Gravity	141	9
RTW-427	DISTRICT7	3047 W Galer St		40	3.2
RTW-680	DISTRICT1	39th Ave SW Between Henderson St And Trenton St	Rockery	172	23
RTW-681	DISTRICT2	10th Ave S Between Jackson And Main	Steel H-Pile & RC Lagging	100	12
RTW-689	DISTRICT3	E Glen St Between 18th Ave E And 19th Ave E	RC Reinforced Concrete	41	5
RTW-690A	DISTRICT1	6600 36th Ave S Between Holly St And Morgan St	Rockery	140	7
RTW-690B	DISTRICT1	6601 36th Ave S Between Holly St And Morgan St	Reinforced Earth	95	5
RTW-693	DISTRICT5	9205 Greenwood Ave N Between N 92nd St And N 95th St	Rockery	46	5
RTW-694	DISTRICT7	Post Alley Between University And Union	RC Reinforced Concrete	245	30
RTW-696	DISTRICT3	S Main St At Mlk Jr Way S	Concrete Gravity	0	0
RTW-700	DISTRICT4	NE 80th St Between 25th Ave NE And 27th Ave NE	RC Reinforced Concrete	62	8
RTW-702	DISTRICT2	S Juneau St Between Mlk Jr Way S And 35th Ave S	RC Reinforced Concrete	133	9
RTW-703A	DISTRICT7	W Mercer Pl Between 5th Ave W And 6th Ave W	RC Reinforced Concrete	82	5
RTW-704	DISTRICT2	34th Ave S Between Monroe St And Rose St	Composite	200	5
RTW-707	DISTRICT7	Terry Ave Between University And Union	Concrete Gravity	58	5
RTW-709	DISTRICT3	Jefferson St Between 11Th Ave And 12Th Ave	RC Reinforced Concrete	85	2.5
RTW-710	DISTRICT1	SW Yancy St Between 26th Ave SW And 28th Ave SW	RC Reinforced Concrete	24	4
RTW-711	DISTRICT2	Mlk Jr Way S Between S Ferdinand And S Hudson St	Soil Nail Construction	660	20
RTW-713	DISTRICT7	215 1 St Ave W Between John St And Thomas St	Steel H-Pile & RC Lagging	100	0
RTW-714	DISTRICT7	215 1st Ave W	Rockery	38	3
RTW-717	DISTRICT7	2520 Elliott Ave Between Vine St And Vine St	RC Reinforced Concrete	140	3
RTW-724	DISTRICT1	2418 37th Ave SW	KeyStone	230	5
RTW-726	DISTRICT7	2nd Ave N Between John And Denny	RC Reinforced Concrete	72	5
RTW-728	DISTRICT7	W Galer St Between 32nd Ave W And Puget Sound	Steel H-Pile & RC Lagging	40	8
RTW-731	DISTRICT7	Alaskan Way S Between Washington St And Pier 48	Steel Sheet Pile	155	20
RTW-733	DISTRICT5	NE 112 Th St Between 5 Th Ave NE And 3 Rd Ave NE	RC Reinforced Concrete	0	7
RTW-734	DISTRICT6	N 63rd St Between Aurora And Aurora Ave N	Rubble	80	3
RTW-735A	DISTRICT6	Holman Rd NW Between 8th Ave NW And 7th Ave NW	Rockery	600	12
RTW-735B	DISTRICT6	Holman Rd NW Between 8th Ave NW And 7th Ave NW	Rockery	300	8
RTW-735C	DISTRICT6	Holman Rd NW Between 8th Ave NW And 7th Ave NW	Rockery	130	6
RTW-737	DISTRICT3	S Grand St Between Mlk Jr Way S And 28th Ave S	RC Reinforced Concrete	130	6
RTW-739	DISTRICT6	Fremont Ave N	Concrete Gravity	55	9
RTW-741	DISTRICT3	24th Ave S Between Hill St And Walker St	Steel H-Pile & RC Lagging	70	8
RTW-742A	DISTRICT7	Highland Dr Between Aurora Ave And Dexter Ave	Steel H-Pile & RC Lagging	65	17

ASSET ID	DISTRICT	LOCATION	WALL TYPE	LENGTH	MAX HEIGHT
RTW-742B	DISTRICT7	Comstock Between Aurora Ave And Dexter Ave	Steel H-Pile & RC Lagging	28	17
RTW-743	DISTRICT1	California Way SW Between Ferry Ave And Leon Pl	Reinforced Earth	0	0
RTW-750	DISTRICT4	Princeton Ave NE Between 55th St And Burk Gilman Tr	Steel H-Pile & RC Lagging	35	14
RTW-754	DISTRICT5	Lake City Way NE Between NE 117th St And NE 120th St	RC Reinforced Concrete	80	4
RTW-755	DISTRICT5	NE 120th St Between Lake City Way And 30th Ave NE	KeyStone	95	4
RTW-759	DISTRICT4	NE 50th St Between Sand Point Way And 41st Ave NE	RC Reinforced Concrete	117	7
RTW-761A	DISTRICT1	Harbor Ave SW At 2250 Block	Rockery	150	7
RTW-761B	DISTRICT1	Harbor Ave SW At 2250 Block	Rockery	195	5
RTW-764A	DISTRICT5	1st Ave NE Between N 116th St And NE 115th St	RC Reinforced Concrete	66	12
RTW-764B	DISTRICT5	1st Ave NE Between N 116th St And NE 115th St	Reinforced Earth	89	11
RTW-766	DISTRICT6	8748 20th Ave NW At NW 89th St	Rockery	40	12
RTW-769	DISTRICT1	6920 Parshall Pl SW	RC Reinforced Concrete	240	2
RTW-770	DISTRICT5	11900 Lakeside Pl NE	KeyStone	108	9
RTW-441	DISTRICT7	NW Esplanade		73	3.9
RTW-771C	DISTRICT2	10050 Rainier Ave S	Steel H-Pile & RC Lagging	46	6
RTW-772	DISTRICT1	5655 SW Juneau St Between 31st Ave SW And 32nd Ave SW	RC Reinforced Concrete	106	0.5
RTW-773A	DISTRICT1	32nd Ave SW Between SW Raymond St And SW Juneau St	Rockery	56	2
RTW-773B	DISTRICT1	32nd Ave SW At SW Raymond St	Rockery	130	2.5
RTW-774A	DISTRICT3	920 Hiawatha Pl S Between Norman St And Charles St	Steel H-Pile & RC Lagging	25	8
RTW-774B	DISTRICT3	920 Hiawatha Pl S Between Norman St And Charles St	Concrete Block	60	8
RTW-516	DISTRICT7	Lynn St Between 2nd Ave N And 3rd Ave N		0	12
RTW-592	DISTRICT3	Mlk Jr Way & S Charles Street		0	0
RTW-603A	DISTRICT7	South Ship Canal Trail Between Ballard Bridge And Fremont Bridge		0	0
RTW-781	DISTRICT2	24th Ave S Between McClellan St And Forest St	RC Reinforced Concrete	156	10
RTW-796	DISTRICT2	1808 S Plum St Between 18th Ave S And 19th Ave S	RC Reinforced Concrete	70	4
RTW-611M	DISTRICT5	2805 NE 125th St Between 28th and NE and 30th Ave NE		64	12
RTW-798	DISTRICT2	SW Graham St Between 16th Ave SW And 17th Ave SW	Rockery	60	3
RTW-801A	DISTRICT2	Marthin Luther King Way S Between Juneau St And Orcas St	Soil Nail Construction	241	13
RTW-801B	DISTRICT2	Marthin Luther King Way S At Juneau St	RC Reinforced Concrete	30	7
RTW-679A	DISTRICT4	2301 Fairview Ave E	Rockery	150	0
RTW-805A	DISTRICT7	15th Ave W At Dravus St	RC Reinforced Concrete	146	18
RTW-805B	DISTRICT7	15th Ave W At Dravus St	RC Reinforced Concrete	200	18
RTW-805C	DISTRICT7	15th Ave W At Dravus St	RC Reinforced Concrete	380	18
RTW-805D	DISTRICT7	15th Ave W At Dravus St	RC Reinforced Concrete	400	18
RTW-806	DISTRICT5	41st Ave NE Between 142nd And 143rd St	Steel H-Pile & RC Lagging	150	8
RTW-807A	DISTRICT2	S Henderson St At Mlk Jr Way S	Soil Nail Construction	140	16



APPENDIX B: RET WALL INVENTORY

ASSET ID	DISTRICT	LOCATION	WALL TYPE	LENGTH	MAX HEIGHT
RTW-807B	DISTRICT2	S Henderson St At Mlk Jr Way S	Rockery	80	8
RTW-811	DISTRICT6	Seaview Ave NW Between NW 70th St And NW 80th St	KeyStone	50	3
RTW-812A	DISTRICT6	Seaview Ave NW Between NW 67th St And NW 70th St	KeyStone	65	3
RTW-812B	DISTRICT6	Seaview Ave NW Between NW 67th St And NW 70th St	KeyStone	20	2
RTW-813A	DISTRICT6	Seaview Ave NW Between NW 64th St And NW 67th St	KeyStone	180	4
RTW-813B	DISTRICT6	Seaview Ave NW Between NW 64th St And NW 67th St	KeyStone	20	3
RTW-813C	DISTRICT6	Seaview Ave NW Between NW 64th St And NW 67th St	KeyStone	20	3
RTW-814	DISTRICT6	Seaview Ave NW Between NW 64th St And NW 67th St	KeyStone	305	12
RTW-815	DISTRICT6	Seaview Ave NW Between NW 64th St And NW 67th St	KeyStone	222	8
RTW-821	DISTRICT1	4820 Puget Blv SW At 23rd Ave SW	Rockery	103	14
RTW-834	DISTRICT2	3844 37th Ave S Between S Andover St And S Charlestown S	Concrete Gravity	55	12
RTW-835	DISTRICT2	Letitia Ave S At S Andover St	Concrete Gravity	280	14
RTW-840	DISTRICT1	47th Ave SW At SW 104th St	Steel H-Pile & RC Lagging	50	10
RTW-841	DISTRICT4	NE Campus Parkway Between Eastlake Ave And 9th Ave	Concrete Gravity	180	22
RTW-843	DISTRICT3	20th Ave E Between E Crescent Dr And Peach Ct E	Steel H-Pile & RC Lagging	64	10
RTW-844	DISTRICT7	1100 9th Ave W Between W Prospect St And Olympic Way W	Steel H-Pile & RC Lagging	85.5	11.6
RTW-845	DISTRICT2	30th Ave S Between Mccoy Pl And S Alaska St	RC Reinforced Concrete	99	6
RTW-846	DISTRICT2	Mlk Jr Way S Between S Cloverdale St And S Trenton St	RC Reinforced Concrete	62	5
RTW-850A	DISTRICT6	Golden Garden Dr NW Between Seaview Pl NW And View Ave NW	Concrete Block	33	6.5
RTW-850B	DISTRICT6	Golden Garden Dr NW Between Seaview Pl NW And View Ave NW	Concrete Block	84	6.5
RTW-851	DISTRICT6	NW 85th St Between 32nd Ave NW And Golden Gardens	Concrete Gravity	36	5.5
RTW-859	DISTRICT5	Woodland Ave N Between 97th St And 100th St	Rockery	50	5
RTW-771B	DISTRICT2	10050 Rainier Ave S	Rockery	46	18
RTW-870	DISTRICT2	26th Ave S Between S Mcclellan St And S Forest St	Steel H-Pile & RC Lagging	113	7
RTW-875	DISTRICT7	Wheeler St Between Dead End And Nob Hill Ave N	Steel H-Pile & RC Lagging	32	8
RTW-877	DISTRICT4	Sandpoint Way NE Btwn Fairway Estates And Burke Gilman Trail	RC Reinforced Concrete	118	3
RTW-797	DISTRICT3	NEwport Way Between 38th Ave And East Spring St	Rip Rap non-structural	16	10
RTW-885	DISTRICT3	1133 32nd Avenue S At S Judkins St	Rockery	0	0
RTW-885A	DISTRICT7	Nickerson St Between 15th Ave W And Ballard Bridge	KeyStone	68	4
RTW-885B	DISTRICT7	Nickerson St Between 15th Ave W And Ballard Bridge	KeyStone	91	2

ASSET ID	DISTRICT	LOCATION	WALL TYPE	LENGTH	MAX HEIGHT
RTW-885C	DISTRICT7	Nickerson St Between 15th Ave W And Ballard Bridge	KeyStone	0	0
RTW-863	DISTRICT3	25th Ave E Between E Madison St And E John St		40	4
RTW-884	DISTRICT3	1240 Lakeside Ave S At S Judkins St		50	7
RTW-887A	DISTRICT3	Mountains To Sound Trail Between I-90 And Beacon Ave S	Ecology Blocks	144	4.5
RTW-887B	DISTRICT3	Mountains To Sound Trail Between I-90 And Beacon Ave S	Ecology Blocks	99	6
RTW-887C	DISTRICT3	Mountains To Sound Trail Between I-90 And Beacon Ave S	Ecology Blocks	32	8
RTW-887D	DISTRICT3	Mountains To Sound Trail Between I-90 And Beacon Ave S	Ecology Blocks	115	11
RTW-887E	DISTRICT3	Mountains To Sound Trail Between I-90 And Beacon Ave S	Ecology Blocks	309	14
RTW-887F	DISTRICT3	Mountains To Sound Trail Between I-90 And Beacon Ave S	Ecology Blocks	89	7
RTW-887G	DISTRICT3	Mountains To Sound Trail Between I-90 And Beacon Ave S	Ecology Blocks	177	15
RTW-890	DISTRICT3	Lake Dell Ave Btwn Alder And Spruce	Steel H-Pile & RC Lagging	120	10
RTW-920	DISTRICT4	62nd Ave NE Between NE 65th St And NE 74th St	Cantilever	0	0
RTW-908	DISTRICT2	S Trenton St Between 42nd Ave S And M L King Jr Wr Way S	Rockery	197	4.25
RTW-936	DISTRICT3	24th Ave W Between E Thomas St and E Harrison St			
RTW-945	DISTRICT6	Linden Ave N Between N 41st St And N 42nd St		0	2
RTW-947	DISTRICT3	24th Ave E Between Thomas St and E Harrison St	Concrete Gravity		
RTW-959	DISTRICT4	NE Boat St Between NE Pacific St And NE Boat Wr St	Rockery	475	0
RTW-963	DISTRICT4	Ravenna Ave NE Between NE 51st St And NE 53rd St	Concrete Gravity	250	0
RTW-985	DISTRICT3	E Pine St Between 37th Ave and 38th Ave	Rubble	76	5
RTW-603B	DISTRICT7	South Ship Canal Between Fremont Br. And Ballard Br.	Timber Pile & Lagging	124	5
RTW-886A	DISTRICT7	Mercer St Between Broad and Dexter (N. Wall)	Concrete Gravity	865	37
RTW-886B	DISTRICT7	Mercer St Between Broad and Dexter (S. Wall)	Concrete Gravity	115	23
RTW-946	DISTRICT7	Highland Dr Between Dead End And Westlake Ave N	Concrete Gravity	0	
RTW-982	DISTRICT7	24th Pl W Between 24th Ave W and W Manor Pl	Rockery	70	5

APPENDIX C: STAIRWAY INVENTORY

ASSET ID	DISTRICT	LOCATION	TYPE	RAIL TYPE	LENGTH	TREADS
STW-004	DISTRICT1	Brook Ave SW btwn Brook Ave SW and SW Hill St	Timber Frame Construction	Timber	36	4
STW-007	DISTRICT4	NE Eastlake Ave E btwn NE 40th St and Bike Trail	RC Reinforced Concrete	Metal Pipe	25	11
STW-010	DISTRICT5	20th Ave NE btwn 98th St and Creek	Timber Frame Construction	Timber	55	51
STW-011	DISTRICT5	20th Ave NE btwn NE 98th St Ext and Creek	Timber Frame Construction	Timber	12	13
STW-014	DISTRICT1	48th Ave SW btwn 48th and 50th	Timber Frame Construction	Timber	220	108
STW-015	DISTRICT2	S Adams St btwn Letitia Ave S and Alley E/O 34th	Concrete Slabs	Timber	135	101
STW-015B	DISTRICT2	S Adams St btwn 34th Ave S and Alley W/O Letit	Concrete Slabs	Timber	100	81
STW-016A	DISTRICT1	SW Willow St btwn California Ave and 42nd Ave SW	Timber Frame Construction	Timber	25	20
STW-016B	DISTRICT1	SW Willow St btwn California Ave and 42nd Ave SW	RC Reinforced Concrete	Metal Pipe	22	15
STW-017	DISTRICT6	NE 70th St btwn 6th Ave NE and NE 70th St (Br)	RC Reinforced Concrete	Metal Pipe	42	38
STW-018	DISTRICT1	Bonair Dr SW btwn Alki Ave and Halleck Av	RC Reinforced Concrete	Timber	168	109
STW-022	DISTRICT2	S Andover St btwn 47th Ave S and 48th Ave S	RC Reinforced Concrete	Metal Pipe	77	58
STW-023	DISTRICT1	SW Andover St btwn 20th and 21st	Concrete Slabs	Timber	85	72
STW-024	DISTRICT2	S Angeline St btwn 48th Ave S and 49th Ave S	RC Reinforced Concrete	Metal Pipe	36	24
STW-025	DISTRICT2	S Angeline St btwn 52nd Ave S and 53rd Ave S	RC Reinforced Concrete	Metal Pipe	47	38
STW-026	DISTRICT2	S Angeline St btwn 53rd Ave S and 54th Ave S	RC Reinforced Concrete	Metal Pipe	32	25
STW-027	DISTRICT7	W Armour St btwn 10th and 11th	RC Reinforced Concrete	Metal Pipe	67	39
STW-028	DISTRICT7	14th Ave W At Armour	RC Reinforced Concrete	Metal Pipe	18	16
STW-029	DISTRICT7	W Armour St btwn 14th and 15th	Concrete Slabs	Steel	86	51
STW-030	DISTRICT7	W Armour St btwn Prosch and 14th	RC Reinforced Concrete	Metal Pipe	11	10
STW-031	DISTRICT7	W Armour St btwn 27th and 27th	RC Reinforced Concrete	Metal Pipe	33	25
STW-032	DISTRICT2	S Atlantic St btwn 15th and 16th	Concrete Slabs	Timber	136	121
STW-033	DISTRICT3	S Atlantic St btwn 32nd Ave S and 33rd Ave S	Concrete Slabs	Timber	38	32
STW-034	DISTRICT3	S Atlantic St btwn 30th Ave S and 31st Ave S	RC Reinforced Concrete	Metal Pipe	83	68
STW-035E	DISTRICT4	Aurora Ave N btwn N 36th St and Aurora Ave N	RC Reinforced Concrete	Metal Pipe	60	50
STW-035W	DISTRICT4	Aurora Ave N btwn N 36th St and Aurora Ave N	RC Reinforced Concrete	Metal Pipe	60	50
STW-036	DISTRICT7	Aurora Ave N btwn Lynn St and Boston St	RC Reinforced Concrete	Metal Pipe	108	67
STW-037	DISTRICT3	Yale Way btwn Olive and I-5	RC Reinforced Concrete	Metal Pipe	12	7
STW-040E	DISTRICT6	Aurora Ave N At N 79th St	RC Reinforced Concrete	Metal Pipe	25	17

ASSET ID	DISTRICT	LOCATION	TYPE	RAIL TYPE	LENGTH	TREADS
STW-040W	DISTRICT6	Aurora Ave N At N 79th St	Steel Frame Construction	Metal Pipe	31.5	23
STW-041	DISTRICT7	Aurora Ave N At Raye	Concrete Slabs	Timber	86	60
STW-043	DISTRICT7	W Barrett St btwn 29th and 30th	RC Reinforced Concrete	Metal Pipe	111	93
STW-044	DISTRICT7	Bay St btwn Elliott Ave and Western Ave	RC Reinforced Concrete	Metal Pipe	40	34
STW-045	DISTRICT2	S Bayview St btwn 13th Ave S and 14th Ave S	RC Reinforced Concrete	Metal Pipe	84	65
STW-046	DISTRICT2	S Bayview St Between 13Th Ave S And 1-5 Freeway	RC Reinforced Concrete	Steel	16	50
STW-048	DISTRICT7	15TH AVE W BETWEEN W EMERSON ST AND WALKWAY	RC Reinforced Concrete	Metal Pipe	74	53
STW-049	DISTRICT4	NE 77TH ST BETWEEN 30TH AV NE AND 31ST AV NE	Concrete Slabs	Timber	140	99
STW-050	DISTRICT4	RAVENNA AVE NE BETWEEN NE 51ST AND NE 53RD	Concrete Slabs	Timber	203	104
STW-051	DISTRICT3	BOYER AVE E AT HOW ST	RC Reinforced Concrete	Metal Pipe	34	25
STW-052	DISTRICT2	S ATLANTIC ST BETWEEN 3RD AVE S AND 4TH AVE S	RC Reinforced Concrete	Metal Pipe	109	90
STW-053	DISTRICT4	7TH AVE NE BETWEEN NE NORTHLAKE PL AND NE 40TH ST	RC Reinforced Concrete	Metal Pipe	280	203
STW-054	DISTRICT4	FAIRVIEW AVE E AND E HAMLIN ST	Concrete Slabs	Timber	26	20
STW-055	DISTRICT1	SW OREGON ST BETWEEN 35th AVE SW AND ALLEY NORTH OF 35TH AVE SW	RC Reinforced Concrete	Metal Pipe	24	21
STW-056	DISTRICT2	S ALASKA PL BETWEEN DEAD END 1 AND S ALASKA ST	RC Reinforced Concrete	Metal Pipe	89	72
STW-057	DISTRICT3	31ST AVE S BETWEEN S MASSACHUSETTS ST AND S GRAND ST	Concrete Slabs	Timber	58	38
STW-058	DISTRICT1	17TH AVE SW BETWEEN SW MYRTLE ST AND DEAD END 6	Concrete Slabs	Timber	40	32
STW-059A	DISTRICT3	38TH AVE BETWEEN E UNION ST AND E PIKE S ST	Concrete Slabs	Timber	62	47
STW-059B	DISTRICT7	JESSE AVE W BETWEEN XW JESSE AVE W AND W EMERSON ST	Timber Frame Construction		18	6
STW-060	DISTRICT7	MERCER ST BETWEEN 6TH AVE N AND DEXTER AVE N	RC Reinforced Concrete	Metal Pipe	20	17
STW-061	DISTRICT7	MERCER ST BETWEEN 6TH AVE N AND DEXTER AVE N	RC Reinforced Concrete	Metal Pipe	72	53
STW-062	DISTRICT1	SW Brandon St btwn 38th Ave SW and 37th Ave SW	RC Reinforced Concrete	Metal Pipe	14	11
STW-064	DISTRICT1	California Dr SW btwn California and Cambridge	Concrete Slabs	Timber	127	80
STW-065	DISTRICT1	SW Carrol St btwn Aikins and 59th	Concrete Slabs	Timber	257	193
STW-066	DISTRICT3	S Charles St btwn 31st Ave S and 32nd Ave S	RC Reinforced Concrete	Metal Pipe	97	46
STW-067	DISTRICT3	S Charles St btwn 32nd Ave S (Upp and 32nd Ave S (Low	RC Reinforced Concrete	Metal Pipe	22	13
STW-068	DISTRICT3	S Charles St btwn 32nd Ave S and Lake Wa Blvd S	RC Reinforced Concrete	Metal Pipe	20	18
STW-069	DISTRICT3	S Charles St btwn Lake Wa Blvd S and Lakeside Ave S	RC Reinforced Concrete	Metal Pipe	78	31



APPENDIX C: STAIRWAY INVENTORY

ASSET ID	DISTRICT	LOCATION	TYPE	RAIL TYPE	LENGTH	TREADS
STW-070	DISTRICT3	S Charles St btwn Lakeside Ave S and Lake Wa Blvd S	RC Reinforced Concrete	Metal Pipe	36	27
STW-072	DISTRICT1	SW Charlestown St btwn Delridge and 22nd	Concrete Slabs	Timber	61	46
STW-074	DISTRICT2	2350 Shoreland Dr S At Lake Wa Blvd S	RC Reinforced Concrete	Metal Pipe	122	72
STW-075	DISTRICT2	S College St btwn Beacon Ave S and 13th Ave S	RC Reinforced Concrete	Metal Pipe	134	62
STW-076	DISTRICT3	E Columbia St btwn 36th Ave and 35th Ave	RC Reinforced Concrete	Metal Pipe	93	71
STW-077	DISTRICT3	E Columbia St btwn 37th Ave and 36th Ave	RC Reinforced Concrete	Metal Pipe	90	61
STW-078	DISTRICT7	Comstock St btwn Dexter Ave N and Aurora Ave N	RC Reinforced Concrete	Metal Pipe	100	85
STW-079	DISTRICT7	Comstock St btwn Queen AnNE and 1st	RC Reinforced Concrete	Concrete	115	96
STW-080	DISTRICT2	S Cooper St btwn Arrowsmith and Waters	RC Reinforced Concrete	Metal Pipe	113	73
STW-081	DISTRICT2	S Cooper St btwn Rainier Ave S and Arrowsmith Ave	RC Reinforced Concrete	Metal Pipe	280	142
STW-082	DISTRICT2	S Court St btwn 41st Ave S and Terminal Ct S	RC Reinforced Concrete	Metal Pipe	68	43
STW-084	DISTRICT7	W Crockett St btwn Thornodike and 26th	Concrete Slabs	Timber	75	46
STW-085	DISTRICT7	Crockett St btwn 8th and Westlake	RC Reinforced Concrete	Metal Pipe	105	82
STW-086	DISTRICT7	Crockett St btwn Aurora Ave and Dexter Ave	RC Reinforced Concrete	Metal Pipe	42	32
STW-088	DISTRICT1	SW Dakota St btwn 26th and 30th	Concrete Slabs	Timber	19	15
STW-089	DISTRICT1	SW Dakota St btwn 22nd and 23rd	Concrete Slabs	Timber	31	22
STW-092	DISTRICT3	S Day St btwn Yakima and 30th	RC Reinforced Concrete	Metal Pipe	124	98
STW-093	DISTRICT3	S Day St btwn 30th and 31st	RC Reinforced Concrete	Metal Pipe	78	57
STW-094	DISTRICT3	S Day St btwn 32nd and 33rd	RC Reinforced Concrete	Metal Pipe	70	61
STW-095	DISTRICT3	S Dearborn btwn 30th Av So and 31st Av So	RC Reinforced Concrete	Metal	116	69
STW-096	DISTRICT3	S Dearborn St btwn 31st and 32nd	RC Reinforced Concrete	Metal	227	84
STW-097	DISTRICT1	SW Director St btwn Fautleroy and 45th	Concrete Slabs	Timber	26	20
STW-098	DISTRICT2	S Director St btwn 50th and Rainier	RC Reinforced Concrete	Metal Pipe	35	27
STW-100	DISTRICT1	SW Douglas Pl btwn Aikins and Chilberg	Concrete Slabs	Timber	184	133
STW-101	DISTRICT7	Dravus St btwn 9th and 10th	Composite	Timber	67	54
STW-102	DISTRICT7	W Dravus St btwn 36th and 37th	Concrete Slabs	Timber	172	119
STW-103	DISTRICT7	W Dravus St btwn 26th and 26th	Concrete Slabs	Timber	54	46
STW-104	DISTRICT7	W Dravus St btwn 30th and 30th	Concrete Slabs	Timber	51	30
STW-105	DISTRICT7	W Dravus St btwn 10th and 11th	RC Reinforced Concrete	Metal	23	19
STW-106	DISTRICT7	Eaton btwn 30th and Magnolia	Concrete Slabs	Timber	50	36
STW-107	DISTRICT1	SW Edmunds St btwn 37th and 38th	Concrete Slabs	Timber	22	19

ASSET ID	DISTRICT	LOCATION	TYPE	RAIL TYPE	LENGTH	TREADS
STW-108	DISTRICT1	SW Edmunds St btwn 38th and 38th	Concrete Slabs	Timber	22	19
STW-109	DISTRICT1	SW Edmunds St btwn 38th and Fauntleroy	Concrete Slabs	Metal Pipe	31	27
STW-111	DISTRICT7	W Elmore St btwn 30th and 29th	Concrete Slabs	Composite	55	39
STW-112	DISTRICT7	W Elmore St btwn 30th and 31st	Concrete Slabs	Timber	72	53
STW-114	DISTRICT2	S Ferdinand St btwn 51st Ave S and 52nd Ave S	RC Reinforced Concrete	Metal Pipe	87	59
STW-115	DISTRICT7	10th Pl W At W Fulton St	RC Reinforced Concrete	Metal Pipe	19	17
STW-116	DISTRICT7	Galer St btwn Aurora Ave N and Dexter Ave N	RC Reinforced Concrete	Metal Pipe	57	44
STW-117	DISTRICT7	Galer St btwn 6th Ave N and Aurora Ave N	RC Reinforced Concrete	Metal Pipe	200	91
STW-118	DISTRICT7	Galer St btwn 4th Ave N and Bigelow Ave N	RC Reinforced Concrete	Metal Pipe	87	64
STW-119	DISTRICT7	Galer St btwn Bigelow Ave N and 5th Ave N	RC Reinforced Concrete	Metal Pipe	153	118
STW-121	DISTRICT7	Galer St btwn Taylor Ave N and Taylor Ave N	RC Reinforced Concrete	Metal Pipe	50	38
STW-122	DISTRICT7	W Galer St btwn 8th Ave W and 9th Ave W	RC Reinforced Concrete	Metal Pipe	110	91
STW-123	DISTRICT7	W Galer St btwn 7th Ave W and 8th Ave W	RC Reinforced Concrete	Metal Pipe	108	78
STW-124	DISTRICT7	Garfield St btwn Taylor and 5th	Composite	Composite	118	105
STW-125	DISTRICT7	W Garfield St btwn 7th and 8th	RC Reinforced Concrete	Metal Pipe	96	68
STW-127	DISTRICT7	W Garfield St btwn 8th and 9th	RC Reinforced Concrete	Metal Pipe	80	66
STW-128	DISTRICT2	S Genessee St At 34th Ave S	Concrete Slabs	Timber	22	17
STW-129	DISTRICT2	S GeNEsee St btwn Letitia Ave S and Alley	Concrete Slabs	Timber	47	29
STW-130	DISTRICT1	SW Genessee St btwn 21st Av SW and 22nd Av SW	Concrete Slabs	Timber	98	74
STW-131	DISTRICT1	SW Genessee St btwn 22nd Ave SW and 23rd Ave SW	RC Reinforced Concrete	Metal Pipe	100	77
STW-132	DISTRICT1	SW Genessee St btwn 23rd and Delridge	RC Reinforced Concrete	Metal Pipe	90	56
STW-135	DISTRICT3	S Grand St btwn Bradner and 28th	Concrete Slabs	Timber	79	62
STW-136	DISTRICT2	S Hanford St btwn 25th Ave S and Cheasty Ave S	RC Reinforced Concrete	Metal Pipe	197	110
STW-137	DISTRICT3	E Harrison St btwn Melrose Ave E and Bellevue Ave E	RC Reinforced Concrete	Metal Pipe	116	74
STW-138	DISTRICT3	Harvard Ave E btwn Howe and Howe	RC Reinforced Concrete	Metal Pipe	24	22
STW-139	DISTRICT7	Highland Dr btwn Dexter Ave N and Aurora Ave N	RC Reinforced Concrete	Metal Pipe	120	78
STW-140	DISTRICT7	W Highland Dr btwn Olympic and Olympic	Concrete Slabs	Timber	65	50
STW-141	DISTRICT2	S Hill St btwn 16th and 17th	RC Reinforced Concrete	Metal Pipe	84	55
STW-142	DISTRICT1	SW Hill St btwn 42nd and 41st	Concrete Slabs	Timber	50	38
STW-143	DISTRICT1	SW Hill St btwn 42nd and California	Concrete Slabs	Timber	40	33
STW-144	DISTRICT2	S Hinds St btwn York Rd S and 37th Ave S	Concrete Slabs	Timber	15	13
STW-145	DISTRICT2	S Hinds St btwn 20th and 19th	RC Reinforced Concrete	Metal Pipe	20	14

APPENDIX C: STAIRWAY INVENTORY

ASSET ID	DISTRICT	LOCATION	TYPE	RAIL TYPE	LENGTH	TREADS
STW-146	DISTRICT2	S Hinds St btwn Siera and Cascadia	Concrete Slabs	Timber	22	13
STW-147	DISTRICT1	SW Hinds St btwn 35th and 34th	Concrete Slabs	Timber	47	36
STW-148	DISTRICT1	SW Holden St btwn Delridge and 20th	RC Reinforced Concrete	Metal Pipe	289	136
STW-149	DISTRICT1	SW Holden St btwn California and 44th	RC Reinforced Concrete	Metal Pipe	37	28
STW-150	DISTRICT2	S Holgate St btwn 16th and 17th	Concrete Slabs	Timber	124	82
STW-151	DISTRICT3	S Holgate St btwn 31st and 32nd	RC Reinforced Concrete	Metal Pipe	75	54
STW-153	DISTRICT1	SW Holly St btwn Beveridge and 46th	Concrete Slabs	Timber	105	69
STW-155	DISTRICT2	Holyoke Way S btwn Waters and Waters	RC Reinforced Concrete	Metal Pipe	33	29
STW-156	DISTRICT2	S Horton St btwn 19th and 20th	RC Reinforced Concrete	Metal Pipe	47	35
STW-157	DISTRICT2	S Horton St btwn Siera and Cascadia	Concrete Slabs	Timber	58	41
STW-158	DISTRICT7	Howe St btwn Bigelow and 5th	RC Reinforced Concrete	Metal Pipe	75	60
STW-159	DISTRICT3	E Howe St btwn Broadway and 10th	RC Reinforced Concrete	Metal Pipe	140	84
STW-160	DISTRICT3	E Howe St btwn Lakeview and Broadway	RC Reinforced Concrete	Metal Pipe	284	195
STW-161	DISTRICT7	W Howe St btwn 32nd Ave W and 34th Ave	Concrete Slabs	Timber	105	78
STW-162	DISTRICT7	W Howe St btwn 7th and 8th	RC Reinforced Concrete	Metal Pipe	64	53
STW-163	DISTRICT7	W Howe St btwn Thornodike and 26th	RC Reinforced Concrete	Metal Pipe	50	21
STW-164	DISTRICT3	E Howell St btwn 25th and 26th	RC Reinforced Concrete	Metal Pipe	69	50
STW-165	DISTRICT2	S Hudson St btwn 49th and 50th	RC Reinforced Concrete	Metal Pipe	40	23
STW-166	DISTRICT1	SW Hudson St btwn 40th Ave SW and 41st Ave SW	Concrete Slabs	Timber	84	60
STW-167	DISTRICT1	SW Hudson St btwn 41st Ave SW and 42nd Ave SW	Concrete Slabs	Timber	16	13
STW-168	DISTRICT1	SW Hudson St btwn 42nd Ave SW and California Ave	RC Reinforced Concrete	Metal Pipe	60	37
STW-169	DISTRICT1	SW Ida Ave btwn California and 44th	RC Reinforced Concrete	Metal Pipe	34	24
STW-170	DISTRICT3	S Irving St btwn 32nd and 31st	RC Reinforced Concrete	Metal Pipe	60	39
STW-171	DISTRICT3	S Jackson St btwn Lakeside Ave S and Lakeside Ave S	RC Reinforced Concrete	Metal Pipe	22	19
STW-172	DISTRICT3	S Jackson St btwn Lakeside Ave S and 35th Ave S	RC Reinforced Concrete	Metal Pipe	120	93
STW-172B	DISTRICT3	S Jackson St btwn Lakeside Ave S and 35th Ave S	RC Reinforced Concrete	Metal Pipe	25	23
STW-173	DISTRICT3	E James St btwn 38th and Wellington	RC Reinforced Concrete		18	16
STW-174	DISTRICT3	E James St btwn Wellington and Lakeside	RC Reinforced Concrete	Metal Pipe	121	91
STW-177	DISTRICT3	E John St btwn Dorfell and Dorfell	RC Reinforced Concrete	Metal Pipe	20	18

ASSET ID	DISTRICT	LOCATION	TYPE	RAIL TYPE	LENGTH	TREADS
STW-179	DISTRICT3	S Judkins St btwn Lakewash and 33rd	RC Reinforced Concrete	Metal Pipe	51	42
STW-181	DISTRICT2	S Juneau St btwn Ml King Jr and 35th	RC Reinforced Concrete	Metal	49	41
STW-185	DISTRICT3	S King St btwn 29th and 30th	RC Reinforced Concrete	Metal Pipe	74	54
STW-186	DISTRICT3	S King St btwn 31st Ave S and 30th Ave S	RC Reinforced Concrete	Metal Pipe	94	66
STW-188	DISTRICT3	S Lake Way btwn Lake Wa and 35th	RC Reinforced Concrete	Metal Pipe	156	116
STW-189	DISTRICT3	S Lake Way btwn Lake Wa and 35th	RC Reinforced Concrete	Metal Pipe	150	104
STW-190	DISTRICT3	S Lake Way btwn 35th and 36th	RC Reinforced Concrete	Metal Pipe	138	94
STW-191	DISTRICT3	S Lane St btwn 29th and 30th	RC Reinforced Concrete	Metal Pipe	75	54
STW-192	DISTRICT3	S Lane St btwn 30th and 31st	RC Reinforced Concrete	Metal Pipe	92	72
STW-193	DISTRICT3	S Lane St btwn 33rd and Lk Wash Bl	RC Reinforced Concrete	Metal Pipe	64	55
STW-194	DISTRICT3	S Lane St btwn Lk Wash Bl and 35th	Concrete Slabs	Timber	58	41
STW-195	DISTRICT4	NE Laurelcresc Ln btwn 50th and 51st	RC Reinforced Concrete	Metal Pipe	206	82
STW-196	DISTRICT7	W Lawton St btwn 36th and 40th	Concrete Slabs	Timber	28	20
STW-197	DISTRICT7	N Lee St btwn 5th and 5th	Concrete Slabs	Metal Pipe	14	12
STW-198	DISTRICT7	N Lee St btwn 6th and Aurora	Concrete Slabs	Timber	22	16
STW-200	DISTRICT7	W Lee St btwn 7th Ave W and Willard Ave W	RC Reinforced Concrete	Concrete	80	58
STW-201	DISTRICT7	W Lee St btwn 8th Ave W and 9th Ave W	RC Reinforced Concrete	Metal Pipe	144	108
STW-202	DISTRICT2	S Lilac St btwn Letitia and 34th	Concrete Slabs	Timber	118	88
STW-203	DISTRICT2	S Lilac St btwn Rainier and Letitia	Concrete Slabs	Timber	21	14
STW-204	DISTRICT7	Lynn btwn Thornodike and 26th	Concrete Slabs	Timber	62	35
STW-205	DISTRICT3	Mcgilvra Blv E btwn Prospect and 39th	Concrete Slabs	Timber	16	12
STW-206	DISTRICT3	E Mcgraw St btwn 18th and 19th	Concrete Slabs	Timber	73	52
STW-207	DISTRICT7	W Mcgraw St btwn Westview and 11th	RC Reinforced Concrete	Metal Pipe	34	20
STW-208	DISTRICT3	S Main St btwn M L King Jr and M L King Jr	RC Reinforced Concrete	Metal Pipe	8	7
STW-209	DISTRICT7	Marion St btwn Western and Western	Steel Frame Construction	Metal	50	29
STW-210	DISTRICT3	E Marion St btwn 35th and 36th	RC Reinforced Concrete	Metal	103	63
STW-211A	DISTRICT3	E Marion St btwn 36th and 35th	RC Reinforced Concrete	Metal	20	18
STW-212	DISTRICT3	E Marion St btwn 36th and 37th	RC Reinforced Concrete	Metal Pipe	61	40
STW-214	DISTRICT3	E Martin St btwn Portage Bay Pl and Fuhrman Ave E	Concrete Slabs	Timber	72	59
STW-215	DISTRICT3	E Martin St btwn Harvard Ave E and Franklin Ave E	RC Reinforced Concrete	Metal Pipe	37	30



APPENDIX C: STAIRWAY INVENTORY

ASSET ID	DISTRICT	LOCATION	TYPE	RAIL TYPE	LENGTH	TREADS
STW-216	DISTRICT2	S Massachusetts St btwn 17th Ave S and Sturgus Ave S	Concrete Slabs	Metal Pipe	190	71
STW-217	DISTRICT3	Melrose Ave E btwn E Republican St and E Mercer St	RC Reinforced Concrete	Metal Pipe	11	4
STW-218	DISTRICT3	E Mercer St btwn 30th Ave E and 31st Ave E	RC Reinforced Concrete	Metal Pipe	54	40
STW-219	DISTRICT3	E Mercer St btwn 32nd Ave E and 33rd Ave E	RC Reinforced Concrete	Metal Pipe	90	62
STW-220	DISTRICT7	W Mercer St btwn W Mercer and 6th Ave W	Concrete Slabs	Timber	40	34
STW-222	DISTRICT7	W Mercer St btwn 6th Ave W and W Mercer	RC Reinforced Concrete	Metal Pipe	96	52
STW-223	DISTRICT3	Montlake Blvd E btwn E Shelby St and Montlake Br	RC Reinforced Concrete	Metal Pipe	110	86
STW-224	DISTRICT2	S Morgan St btwn 33rd Ave S and 38th Ave S	Concrete Slabs	Timber	118	98
STW-225	DISTRICT2	S Myrtle St btwn 48th Ave S and Rainier Ave	RC Reinforced Concrete	Metal Pipe	20	15
STW-226	DISTRICT1	SW Myrtle St btwn Delridge Way SW and 21st Ave SW	RC Reinforced Concrete	Metal Pipe	305	159
STW-227	DISTRICT7	1003 W Newell St btwn 11th Ave W and 10th Ave W	RC Reinforced Concrete	Metal Pipe	80	57
STW-228	DISTRICT7	Newton St btwn Westlake Ave N and 8th Ave N	RC Reinforced Concrete	Metal Pipe	89	49
STW-229	DISTRICT2	S Norfolk St btwn Waters Ave S and Waters Ave S	RC Reinforced Concrete		5	4
STW-230	DISTRICT2	S Norfolk St btwn Arrowsmith Ave S and Waters Ave S	RC Reinforced Concrete	Metal Pipe	74	57
STW-231	DISTRICT2	S Norfolk St btwn Rainier Ave and Arrowsmith Ave S	RC Reinforced Concrete	Metal Pipe	101	76
STW-235	DISTRICT3	S Norman St btwn Lake Washington Blvd S and 33rd Ave S	Concrete Slabs	Timber	52	39
STW-237	DISTRICT7	W Highland Dr btwn 9th Ave W and 8th Ave W	RC Reinforced Concrete	Timber	62	55
STW-238	DISTRICT2	S Orchard St btwn Rainier Ave and 48th Ave S	RC Reinforced Concrete	Metal Pipe	22	14
STW-239	DISTRICT1	SW Orleans St btwn SW Avalon Way and 30th Ave SW	RC Reinforced Concrete	Metal Pipe	41	31
STW-240	DISTRICT1	SW Orleans St btwn 60th Ave SW and 59th Ave SW	Concrete Slabs	Timber	27	24
STW-241	DISTRICT2	S Pearl St btwn 54th Ave S and 52nd Ave S	RC Reinforced Concrete	Metal Pipe	52	40
STW-242	DISTRICT2	S Perry St btwn Waters Ave S and Waters Ave S	Concrete Slabs	Timber	19	13
STW-243	DISTRICT3	E Pike St btwn 18th Ave and 19th Ave	RC Reinforced Concrete	Metal Pipe	44	36
STW-245	DISTRICT7	Pine St btwn Western Ave and Alaskan Way	Concrete Slabs	Timber	70	53
STW-246	DISTRICT7	Pike St btwn Pike Pl and 1st Ave	RC Reinforced Concrete	Metal Pipe	22	20
STW-247	DISTRICT3	E Pine St btwn Grand Ave and 38th Ave	Concrete Slabs	Metal Pipe	12	10
STW-248	DISTRICT1	SW Porter Way btwn 30th Ave SW and Harbor Ave SW	Concrete Slabs	Timber	31	22
STW-249	DISTRICT7	Prospect St btwn Aurora Ave N and 6th Ave N	RC Reinforced Concrete	Metal Pipe	62	46
STW-250	DISTRICT3	E Prospect St btwn 41st Ave E and Mcgilvra Blvd E	Concrete Slabs	Metal Pipe	25	20

ASSET ID	DISTRICT	LOCATION	TYPE	RAIL TYPE	LENGTH	TREADS
STW-251	DISTRICT7	W Prospect St btwn 8th Ave W and 7th Ave W	RC Reinforced Concrete	Metal Pipe	87	61
STW-252	DISTRICT3	Randolph Ave btwn E Alder St and E Terrace St	RC Reinforced Concrete	Metal Pipe	96	75
STW-253A	DISTRICT3	501 Randolph Ave btwn Wellington Ave and E James St	RC Reinforced Concrete	Metal Pipe	80	54
STW-253B	DISTRICT3	501 Randolph Ave btwn Wellington Ave and E James St	RC Reinforced Concrete	Metal Pipe	96	72
STW-254	DISTRICT4	Ravenna Ave NE btwn NE 50th St and NE 51st St	RC Reinforced Concrete	Metal Pipe	25	17
STW-255	DISTRICT4	18th Ave NE btwn NE Ravenna Blvd and NE Ravenna Blvd	RC Reinforced Concrete	Metal Pipe	8	7
STW-256	DISTRICT7	Raye St btwn Aurora Ave N and Halladay St	Concrete Slabs	Timber	44	39
STW-257	DISTRICT1	SW Raymond St btwn Atlas Pl SW and 50th Ave SW	Concrete Slabs	Timber	86	76
STW-258	DISTRICT2	S Redwing St btwn Rainier Ave and Waters Ave S	RC Reinforced Concrete	Metal Pipe	169	102
STW-259	DISTRICT3	E Republican St btwn Melrose Ave E and Bellevue Ave E	RC Reinforced Concrete	Concrete	117	90
STW-260	DISTRICT3	E Roanoke St btwn 11th Ave E and Boyer Ave E	RC Reinforced Concrete	Metal Pipe	116	83
STW-261	DISTRICT4	Eastlake Ave E btwn NE 40th St and NE 40th St	RC Reinforced Concrete	Metal Pipe	60	39
STW-262	DISTRICT1	SW Roxbury St btwn Marine View Dr SW and 44th Ave SW	Concrete Slabs	Metal Pipe	83	41
STW-263	DISTRICT7	W Ruffner St btwn 37th Ave W and 36th Ave W	RC Reinforced Concrete	Metal Pipe	63	52
STW-264	DISTRICT7	W Ruffner St btwn 13th Ave W and 14th Ave W	Concrete Slabs	Timber	151	135
STW-267	DISTRICT7	SeNEca St btwn Western Ave and 1st Ave	RC Reinforced Concrete	Metal Pipe	86	57
STW-268	DISTRICT7	W Smith St btwn 26th Ave W and 27th Ave W	RC Reinforced Concrete	Metal Pipe	48	39
STW-269	DISTRICT2	S Spencer St btwn Rainier Ave and 44th Ave S	RC Reinforced Concrete	Metal Pipe	16	13
STW-270	DISTRICT3	E Spring St btwn 36th Ave and 35th Ave	RC Reinforced Concrete	Metal Pipe	39	23
STW-271	DISTRICT1	SW Spokane St btwn W Marginal Way SW and Chelan Ave SW	RC Reinforced Concrete	Metal Pipe	46	34
STW-273	DISTRICT2	S Spokane St btwn York rd S and Courtland Pl S	Concrete Slabs	Timber	13	10
STW-275	DISTRICT1	SW Spokane St btwn 61st Ave SW and 60th Ave SW	RC Reinforced Concrete	Metal Pipe	72	60
STW-275B	DISTRICT1	Spokane St btwn 61st and 60th	Railroad Concrete Slabs		178	48
STW-277	DISTRICT1	SW Spokane St btwn SW Admiral Way and Fautleroy Way SW	Concrete Slabs	Timber	72	53
STW-278	DISTRICT1	SW Spokane St btwn Klickitat Ave SW and Klickitat Ave SW	RC Reinforced Concrete	Metal Pipe	87	51
STW-279	DISTRICT3	E Spring St btwn 37th Ave and 36th Ave	RC Reinforced Concrete	Metal Pipe	114	65
STW-280	DISTRICT3	E Spring St btwn Lake Washington Blvd and Grand Ave	RC Reinforced Concrete	Metal Pipe	24	20
STW-281	DISTRICT3	E Spruce St btwn Lake Dell Ave and 32nd Ave	Concrete Slabs	Timber	100	62

APPENDIX C: STAIRWAY INVENTORY

ASSET ID	DISTRICT	LOCATION	TYPE	RAIL TYPE	LENGTH	TREADS
STW-282A	DISTRICT3	E Spruce St btwn Boren Ave and Broadway	RC Reinforced Concrete	Metal Pipe	15	13
STW-282B	DISTRICT3	E Spruce St btwn Boren Ave and 10th Ave	RC Reinforced Concrete	Metal Pipe	20	12
STW-283	DISTRICT1	SW Stevens St btwn 53rd Ave SW and 52nd Ave SW	RC Reinforced Concrete	Metal Pipe	31	18
STW-285	DISTRICT3	E Terrace St btwn Randolph Ave and 36th Ave	RC Reinforced Concrete	Metal Pipe	122	101
STW-286	DISTRICT2	S Thayer St btwn Rainier Ave and Arrowsmith Ave S	RC Reinforced Concrete	Metal Pipe	27	53
STW-287	DISTRICT1	SW Thistle St btwn 14th Ave SW and 15th Ave SW	Concrete Slabs	Timber	40	36
STW-288	DISTRICT1	SW Thistle St btwn 44th Ave SW and Northrop Pl SW	Concrete Slabs	Timber	197	125
STW-289	DISTRICT3	E Thomas St btwn 25th Ave E and E Madison St	Concrete Slabs	Timber	72	34
STW-290	DISTRICT3	E Thomas St btwn E Madison St and 26th Ave E	Concrete Slabs	Timber	130	80
STW-294	DISTRICT3	E Union St btwn 36th and 36th	RC Reinforced Concrete		16	13
STW-295	DISTRICT7	Union St btwn Terry Ave and Hubbell Pl	Concrete Slabs	Timber	100	62
STW-297	DISTRICT2	S Walker St btwn 16th and 17th	RC Reinforced Concrete	Metal Pipe	62	48
STW-298	DISTRICT2	S Walker St btwn 17th and 18th	RC Reinforced Concrete	Metal Pipe	82	61
STW-299	DISTRICT7	Warren Ave btwn Ward and Ward	RC Reinforced Concrete	Concrete	67	42
STW-300	DISTRICT7	Warren Ave N At Valley St	RC Reinforced Concrete	Metal Pipe	32	28
STW-301	DISTRICT1	SW Warsaw St btwn 38th and 39th	RC Reinforced Concrete	Metal Pipe	67	46
STW-302	DISTRICT2	S Warsaw St btwn Rainier and 48th	RC Reinforced Concrete	Metal Pipe	36	15
STW-303	DISTRICT3	S Washington St btwn 31st and 32nd	RC Reinforced Concrete	Metal Pipe	121	91
STW-304	DISTRICT1	SW Webster Ave btwn 44th and California	RC Reinforced Concrete	Metal Pipe	42	31
STW-305	DISTRICT3	Wellington Ave btwn 39th Ave and Lake Wa Blvd	Concrete Slabs	Timber	48	43
STW-306	DISTRICT7	Union St btwn Western Ave and Alaskan Way	Steel Frame Construction	Metal Pipe	50	36
STW-307	DISTRICT7	W Wheller St btwn 12th and 13th	Concrete Slabs	Timber	59	46
STW-308	DISTRICT7	W Wheeler St btwn 11th and 11th	RC Reinforced Concrete	Metal Pipe	104	64
STW-309	DISTRICT7	W Wheeler St btwn 14th and 15th	RC Reinforced Concrete	Metal Pipe	68	21
STW-310	DISTRICT7	W Wheeler St At Gilman	Concrete Slabs	Timber	48	21
STW-311	DISTRICT7	W Wheeler St btwn 13th and Gilman Dr	Concrete Slabs	Timber	49	38
STW-312	DISTRICT4	Whitman Ave N btwn 42nd and 42nd St	RC Reinforced Concrete		6	3
STW-313	DISTRICT7	Willard btwn Prospect and Prospect	RC Reinforced Concrete	Metal Pipe	30	26
STW-314	DISTRICT7	Willard Ave W btwn Comstock and Highland	RC Reinforced Concrete	Metal Pipe	93	74
STW-315	DISTRICT3	Yakima Ave S btwn Day and 30th	Concrete Slabs	Metal Pipe	15	8

ASSET ID	DISTRICT	LOCATION	TYPE	RAIL TYPE	LENGTH	TREADS
STW-317	DISTRICT7	Yesler Way At 4th Ave	RC Reinforced Concrete	Concrete	29	21
STW-318	DISTRICT7	1st Ave W btwn Prospect and Highland	RC Reinforced Concrete	Metal Pipe	112	87
STW-319	DISTRICT7	1st Ave N btwn Newell St and W Armour	RC Reinforced Concrete	Metal Pipe	64	52
STW-320	DISTRICT7	1st Ave N At Vally St	RC Reinforced Concrete	Metal Pipe	29	29
STW-321	DISTRICT6	1st Ave NW btwn 40th and Bowdoin	RC Reinforced Concrete	Metal Pipe	71	63
STW-322	DISTRICT7	2nd Ave N At Highland	RC Reinforced Concrete	Metal Pipe	65	45
STW-323	DISTRICT7	2nd Ave N btwn Prospect and Highland	RC Reinforced Concrete	Concrete	81	66
STW-324	DISTRICT7	2nd Ave N btwn Prospect and Kinnear Pl	RC Reinforced Concrete	Metal Pipe	138	75
STW-325	DISTRICT7	2nd Ave W btwn Prospect and Highland	RC Reinforced Concrete	Metal Pipe	74	52
STW-326	DISTRICT6	2nd Ave NE btwn NE 75th and NE 77th	RC Reinforced Concrete	Metal Pipe	127	71
STW-327	DISTRICT7	2nd Ave N btwn Ward and Ward	RC Reinforced Concrete	Metal Pipe	50	34
STW-328	DISTRICT7	3rd Ave N btwn Ward and Aloha	RC Reinforced Concrete	Metal Pipe	94	84
STW-329	DISTRICT7	3rd Ave N btwn Ward and Ward	RC Reinforced Concrete	Metal Pipe	48	37
STW-330	DISTRICT7	3rd Ave N btwn Biglow and Prospect	RC Reinforced Concrete	Metal Pipe	74	45
STW-331	DISTRICT7	3rd Ave W btwn Prospect and Highland	RC Reinforced Concrete	Metal Pipe	70	57
STW-332	DISTRICT7	4th Ave btwn Ward and Ward	RC Reinforced Concrete	Metal Pipe	31	27
STW-333	DISTRICT2	4th Ave btwn Yesler and Washington	RC Reinforced Concrete	Metal Pipe	44	35
STW-334	DISTRICT7	4th Ave W btwn Prospect and Highland	RC Reinforced Concrete	Metal Pipe	100	71
STW-335	DISTRICT2	4th Ave btwn Yesler and Washington	RC Reinforced Concrete	Metal Pipe	85	54
STW-336	DISTRICT7	4th Ave N btwn Westlake and Nickerson	RC Reinforced Concrete	Metal Pipe	59	39
STW-337	DISTRICT4	4th Ave NE btwn NE 40th St (Upper) and NE 40th St (Lower)	RC Reinforced Concrete	Metal Pipe	60	40
STW-340	DISTRICT7	5th Ave W btwn Kinnear and Kinnear Pl	RC Reinforced Concrete	Metal Pipe	40	20
STW-341	DISTRICT7	5th Ave W btwn Dravus and Barret	Concrete Slabs	Timber	104	76
STW-342	DISTRICT7	6th Ave W btwn Comstock and Highland	RC Reinforced Concrete	Concrete	57	45
STW-344	DISTRICT7	8th Ave W btwn Olympic Way W and 8th Ave W	RC Reinforced Concrete	Metal Pipe	33	29
STW-345	DISTRICT7	9th Ave W btwn Blaine and Blaine	RC Reinforced Concrete	Metal Pipe	20	7



APPENDIX C: STAIRWAY INVENTORY

ASSET ID	DISTRICT	LOCATION	TYPE	RAIL TYPE	LENGTH	TREADS
STW-347	DISTRICT7	9th Ave W btwn Bertona and Cremona	RC Reinforced Concrete	Timber	16	12
STW-348	DISTRICT7	10th Ave W btwn Highland and Highland	RC Reinforced Concrete	Metal Pipe	36	32
STW-349A	DISTRICT7	10th Ave W btwn Lee and Highland	RC Reinforced Concrete	Metal	8	7
STW-349B	DISTRICT7	10th Ave W btwn Lee and Highland	RC Reinforced Concrete	Metal Pipe	8	7
STW-349D	DISTRICT7	10th Ave W btwn Lee and Highland	RC Reinforced Concrete	Metal Pipe	12	11
STW-349E	DISTRICT7	10th Ave W btwn Lee and Highland	RC Reinforced Concrete	Metal Pipe	12	11
STW-349F	DISTRICT7	10th Ave W btwn Lee and Highland	RC Reinforced Concrete	Metal Pipe	12	11
STW-350	DISTRICT7	10th Pl W At W Barrett St	RC Reinforced Concrete	Metal Pipe	18	16
STW-351A	DISTRICT7	10th Pl W btwn W Barrett St and W Fulton St	RC Reinforced Concrete	Metal Pipe	17	16
STW-351B	DISTRICT7	10th Pl W btwn W Barrett St and W Fulton St	RC Reinforced Concrete	Metal Pipe	17	16
STW-351C	DISTRICT7	10th Pl W btwn W Barrett St and W Fulton St	RC Reinforced Concrete	Metal Pipe	17	16
STW-353	DISTRICT1	10th Ave S btwn S Trenton St and S Trenton St	Concrete Slabs	Metal Pipe	80	61
STW-354	DISTRICT1	10th Ave SW btwn Roxbury and Cambridge	RC Reinforced Concrete	Metal Pipe	44	28
STW-355	DISTRICT1	10th Ave SW btwn Roxbury and 97th	RC Reinforced Concrete	Metal Pipe	42	24
STW-356	DISTRICT1	11th Ave SW btwn Roxbury and Cambridge	RC Reinforced Concrete	Metal Pipe	18	12
STW-357	DISTRICT7	11th Ave W btwn Gilman and Gilman	RC Reinforced Concrete	Metal Pipe	94	71
STW-358	DISTRICT1	12th Ave S btwn Donovan and Trenton	Concrete Slabs	Timber	107	86
STW-359	DISTRICT7	12th Ave W btwn Bertona and Bertona	RC Reinforced Concrete	Metal Pipe	27	15
STW-360	DISTRICT7	12th Ave W At W Wheeler St	RC Reinforced Concrete	Metal Pipe	38	24
STW-361	DISTRICT7	12th Ave W btwn Raye and Bothwell	RC Reinforced Concrete	Metal Pipe	20	16
STW-362	DISTRICT7	13th Ave W btwn Emerson and Ruffner	RC Reinforced Concrete	Metal Pipe	31	22
STW-363	DISTRICT1	13th Ave SW btwn Roxbury and Cambridge	RC Reinforced Concrete	Metal Pipe	43	26
STW-364	DISTRICT7	13th Ave W btwn Howe and Newton	RC Reinforced Concrete	Metal Pipe	88	63
STW-365	DISTRICT7	13th Ave W btwn Ruffner and Bertona	RC Reinforced Concrete	Metal Pipe	31	22
STW-366	DISTRICT7	13th Ave W btwn Ruffner and Emerson	RC Reinforced Concrete	Metal Pipe	17	15
STW-367	DISTRICT7	13th Ave W btwn Raye and Wheeler	Concrete Slabs	Composite	87	51
STW-368	DISTRICT7	13th Ave W btwn Wheeler and Wheeler	Concrete Slabs	Timber	18	16
STW-370	DISTRICT7	14th Ave W At Raye	RC Reinforced Concrete	Metal Pipe	29	18

ASSET ID	DISTRICT	LOCATION	TYPE	RAIL TYPE	LENGTH	TREADS
STW-371	DISTRICT1	14th Ave SW btwn Holden and Webster	RC Reinforced Concrete	Metal Pipe	34	24
STW-372	DISTRICT7	15th Ave W btwn W Emerson St and W Emerson Ramp	RC Reinforced Concrete	Metal Pipe	87	45
STW-373	DISTRICT7	15th Ave W btwn W Emerson St and W Nickerson St	RC Reinforced Concrete	Metal Pipe	26	22
STW-374	DISTRICT7	15th Ave W btwn W Emerson St and W Nickerson St	RC Reinforced Concrete	Metal Pipe	58	33
STW-375	DISTRICT7	15th Ave W btwn W Emerson St and Walkway	RC Reinforced Concrete	Metal Pipe	36	18
STW-375A	DISTRICT7	15Th Ave W Between W Emerson St And Walkway	RC Reinforced Concrete	Steel	36	20
STW-376	DISTRICT6	15th Ave NW btwn Ballard and Shilshole	Steel Frame Construction	Metal Pipe	119	106
STW-377	DISTRICT3	15th Ave E btwn E Boston St and E Boston St	Concrete Slabs	Timber	77	64
STW-378	DISTRICT1	18th Ave SW btwn Charlestown and Marginal	Concrete Slabs	Timber	328	228
STW-381	DISTRICT1	SW Dakota St btwn 21st Ave SW (Upper) and 21st Ave SW (Lower)	Concrete Slabs	Timber	14	4
STW-382	DISTRICT3	22nd Ave E btwn E Howe St and E Blaine St	RC Reinforced Concrete	Metal Pipe	158	111
STW-384	DISTRICT3	E Newton St btwn 23rd Ave E and E Newton St	RC Reinforced Concrete	Metal Pipe	48	27
STW-385	DISTRICT3	25th Ave E btwn E Thomas St and E Harrison St	RC Reinforced Concrete	Metal	16	12
STW-386	DISTRICT7	25th Ave W btwn Fulton and Dravus	RC Reinforced Concrete	Metal Pipe	23	17
STW-387	DISTRICT3	25th Ave E btwn E Thomas St and E Harrison St	RC Reinforced Concrete	Metal Pipe	21	16
STW-388	DISTRICT3	25th Ave E At E Thomas St	Concrete Slabs	Timber	16	12
STW-389	DISTRICT3	26th Ave E btwn Prospect and Helen	Concrete Slabs	Timber	77	41
STW-391	DISTRICT7	28th Ave W btwn Galer and Eaton	RC Reinforced Concrete	Metal Pipe	24	22
STW-393	DISTRICT3	30th Ave btwn E Union St and E Pike St	Concrete Slabs	Timber	35	28
STW-394	DISTRICT3	30th Ave btwn E Union St and E Spring St	Concrete Slabs	Metal Pipe	35	24
STW-396	DISTRICT3	31st Ave btwn E Cherry St and E Arlington Pl	RC Reinforced Concrete	Metal Pipe	37	29
STW-397	DISTRICT3	31st Ave E btwn E Republican St and Lake Wa Blvd E	RC Reinforced Concrete	Metal Pipe	31	35
STW-400	DISTRICT3	E Marion St btwn Marion and Columbia	RC Reinforced Concrete	Metal Pipe	20	17
STW-401	DISTRICT4	36th Ave NE At NE 45th St	RC Reinforced Concrete	Metal Pipe	31	20
STW-402	DISTRICT3	37th Ave E btwn Dorfell and High Lane	RC Reinforced Concrete	Metal Pipe	166	101
STW-403	DISTRICT3	1111 38th Ave E btwn NEwport and Union	RC Reinforced Concrete	Metal Pipe	196	137
STW-404	DISTRICT2	39th Ave S btwn S Americus and S Angeline	RC Reinforced Concrete	Metal Pipe	29	23
STW-405	DISTRICT1	39th btwn Cloverdale and Trenton	RC Reinforced Concrete	Metal Pipe	85	76

APPENDIX C: STAIRWAY INVENTORY

ASSET ID	DISTRICT	LOCATION	TYPE	RAIL TYPE	LENGTH	TREADS
STW-406	DISTRICT3	39th Ave btwn Pine and Olive	RC Reinforced Concrete	Metal Pipe	63	49
STW-407	DISTRICT6	N 40th St btwn Evanston Ave N and Dayton Ave N	Concrete Slabs	Timber	74	66
STW-408	DISTRICT6	N 40th St btwn Evanston Ave N and Fremont Ave N	Concrete Slabs	Timber	61	52
STW-409	DISTRICT4	Eastlake Ave E At NE 40th St	RC Reinforced Concrete	Metal Pipe	70	42
STW-410	DISTRICT4	N 41st St btwn Aurora and Aurora	RC Reinforced Concrete	Concrete	82	73
STW-413	DISTRICT6	N 41st St btwn Evanston Ave N and Dayton Ave N	RC Reinforced Concrete	Metal Pipe	22	18
STW-414	DISTRICT4	NE 42nd St btwn 55th Av NE and 54th Av NE	RC Reinforced Concrete	Metal Pipe	56	34
STW-415	DISTRICT6	NW 42nd St btwn 1st and 2nd	RC Reinforced Concrete	Metal Pipe	36	32
STW-416	DISTRICT6	N 43rd St btwn PalatiNE and GreeNWood	Concrete Slabs	Timber	66	59
STW-417	DISTRICT4	NE 43rd St btwn 55th Av NE and 56th Av NE	RC Reinforced Concrete	Metal Pipe	90	68
STW-418	DISTRICT1	44th Ave SW btwn California and Donald	RC Reinforced Concrete	Metal Pipe	78	60
STW-419	DISTRICT6	N 45th St btwn PalatiNE and PalatiNE	Concrete Slabs	Timber	69	62
STW-420	DISTRICT4	NE 45th St btwn 52nd Av NE and 53rd Av NE	RC Reinforced Concrete	Metal Pipe	57	34
STW-422	DISTRICT2	46th Ave S btwn Ferdinand and Angeline	RC Reinforced Concrete	Metal Pipe	104	80
STW-423	DISTRICT6	NW 46thst St btwn 1st and 1st	RC Reinforced Concrete	Metal Pipe	37	33
STW-424	DISTRICT6	NW 46th St btwn 1st and Market	RC Reinforced Concrete	Metal Pipe	66	52
STW-425	DISTRICT4	NE 47th St btwn 22nd Av NE and 21st Av NE	RC Reinforced Concrete	Metal Pipe	76	51
STW-426	DISTRICT2	47th Ave S btwn Snoqualmie and Oregon	RC Reinforced Concrete	Metal Pipe	66	50
STW-427	DISTRICT2	48th Ave S btwn Genessee and Adams	RC Reinforced Concrete	Metal Pipe	76	43
STW-428	DISTRICT2	48th Ave S btwn Genessee and Oregon	RC Reinforced Concrete	Metal Pipe	92	60
STW-429	DISTRICT6	NW 48th St btwn Market and Market	RC Reinforced Concrete	Metal Pipe	17	15
STW-430	DISTRICT1	49th Ave SW btwn Genessee and Dakota	RC Reinforced Concrete	Metal Pipe	49	37
STW-432	DISTRICT4	NE 50th St At NE Ravenna	RC Reinforced Concrete	Metal Pipe	21	15
STW-433	DISTRICT6	NW 50th St btwn Market and 2nd	RC Reinforced Concrete	Metal Pipe	19	17
STW-434	DISTRICT1	50th SW btwn Admiral and Grayson	Concrete Slabs	Timber	40	36
STW-435	DISTRICT1	52nd Pl SW btwn SW GeNEsee St and SW Oregon St	RC Reinforced Concrete		49	30
STW-436	DISTRICT4	NE 52nd St btwn 20th Ave NE and 21st Ave NE	RC Reinforced Concrete	Metal Pipe	90	62
STW-437	DISTRICT4	NE 52nd St btwn 22nd Ave NE and 21st Ave NE	RC Reinforced Concrete	Metal Pipe	200	91

ASSET ID	DISTRICT	LOCATION	TYPE	RAIL TYPE	LENGTH	TREADS
STW-438	DISTRICT2	53rd Ave S btwn Pearl and Hudson	RC Reinforced Concrete	Metal Pipe	52	36
STW-439	DISTRICT1	53rd Ave SW btwn Hugues Ave and Hobart Ave	RC Reinforced Concrete	Metal Pipe	62	50
STW-440	DISTRICT1	53rd Ave SW btwn Halleck Ave SW and Hobart Ave SW	RC Reinforced Concrete	Metal Pipe	178	124
STW-441	DISTRICT2	53rd Ave S btwn Ferdinand and Hudson	Concrete Slabs	Timber	52	46
STW-442	DISTRICT2	53rd Ave S btwn Ferdinand and Ferdinand	Concrete Slabs	Timber	27	24
STW-443A	DISTRICT6	NW 53rd St btwn NW Market St and 6th Ave NW	RC Reinforced Concrete	Metal Pipe	11	10
STW-443B	DISTRICT6	NW 53rd St btwn NW Market St and 6th Ave NW	RC Reinforced Concrete		13	11
STW-444	DISTRICT6	NW 54th St btwn NW Market St and 6th Ave NW	RC Reinforced Concrete	Metal Pipe	28	25
STW-446	DISTRICT1	56th Ave SW btwn Lander and Campbell	RC Reinforced Concrete	Metal Pipe	68	55
STW-447	DISTRICT4	60th Ave NE btwn NE 61st St and NE 62nd St	RC Reinforced Concrete	Metal Pipe	17	11
STW-450E	DISTRICT4	NE 61st St btwn 21st Ave NE and Ravenna Ave NE	RC Reinforced Concrete	Metal Pipe	32	26
STW-450W	DISTRICT4	NE 61st St btwn 21st Ave NE and Ravenna Ave NE	RC Reinforced Concrete	Metal Pipe	28	21
STW-451E	DISTRICT4	NE 61st St btwn Ravenna Ave NE and NE 60th St	RC Reinforced Concrete	Metal Pipe	32	20
STW-451W	DISTRICT4	NE 61st St btwn Ravenna Ave NE and NE 60th St	Concrete Slabs	Timber	28	18
STW-452	DISTRICT6	NW 65th St btwn 37th and 37th	Concrete Slabs	Timber	46	41
STW-453	DISTRICT2	72nd Ave S btwn Rainier and Taft	Concrete Slabs	Timber	161	43
STW-455	DISTRICT4	NE 77th St btwn 29th St and 30th St	RC Reinforced Concrete	Metal Pipe	88	50
STW-456	DISTRICT4	Ne 77Th St Between 30Th Av Ne And 31St Av Ne	RC Reinforced Concrete	Steel	120	68
STW-457	DISTRICT4	NE 80th St btwn 30th Av NE and 29th Av NE	RC Reinforced Concrete	Metal Pipe	112	20
STW-458	DISTRICT6	NW 85th St btwn 32nd Ave NW and Gldn Grdn Dr NW	RC Reinforced Concrete	Metal Pipe	62	54
STW-458C	DISTRICT6	NW 85th St btwn 32nd Ave NW and Gldn Grdn Dr NW	RC Reinforced Concrete	Metal Pipe	87	79
STW-459	DISTRICT5	N 88th St btwn Burke Ave N and Meridian Ave N	Concrete Slabs	Metal Pipe	30	26
STW-460	DISTRICT5	NE 90th St btwn Ravenna Av and 25th Av NE	Concrete Slabs	Timber	28	17
STW-462	DISTRICT5	NE 97th St btwn 19th and 20th	Concrete Slabs	Timber	32	25
STW-465	DISTRICT5	NE 130th Pl btwn 15th Av NE and 16th Av NE	RC Reinforced Concrete	Metal Pipe	45	28
STW-466	DISTRICT2	S Frontenac St btwn Rainier and 48th	RC Reinforced Concrete	Metal Pipe	23	14
STW-468	DISTRICT7	1st Ave W btwn Queen AnNE and Roy	RC Reinforced Concrete	Metal Pipe	31	27
STW-469	DISTRICT7	8th Ave W btwn W Lee St and W Comstock St	RC Reinforced Concrete	Concrete	118	61
STW-471	DISTRICT7	W Fulton St btwn Dexter Av and Nob Hill N	RC Reinforced Concrete	Metal Pipe	108	80



APPENDIX C: STAIRWAY INVENTORY

ASSET ID	DISTRICT	LOCATION	TYPE	RAIL TYPE	LENGTH	TREADS
STW-472	DISTRICT7	W Galer St btwn Queen AnNE and 1st	RC Reinforced Concrete	Concrete	106	68
STW-473	DISTRICT7	Garfield St btwn Aurora Ave N and Dexter Ave N	RC Reinforced Concrete	Metal Pipe	34	30
STW-475	DISTRICT7	W Highland Dr btwn Olympic Way W and 8th Ave W	RC Reinforced Concrete	Metal Pipe	70	62
STW-478	DISTRICT1	19th Ave SW btwn Othello and Dumar	RC Reinforced Concrete	Timber	363	153
STW-479	DISTRICT1	46th Ave SW btwn Charleston and Andover	RC Reinforced Concrete		11	10
STW-480A	DISTRICT1	3013 SW Admiral Way btwn 30th Ave SW and SW City View St	Concrete Slabs	Timber	16	7
STW-480B	DISTRICT1	3023 SW Admiral Way btwn 30th Ave SW and SW City View St	Concrete Slabs	Timber	16	7
STW-480C	DISTRICT1	SW Admiral Way btwn 30th Ave SW and SW City View St	Concrete Slabs	Timber	16	7
STW-481	DISTRICT1	SW Findlay St btwn 37th and 38th	Concrete Slabs	Timber	80	58
STW-482	DISTRICT7	215 1st Ave W btwn Thomas and John	RC Reinforced Concrete	Metal Pipe	58	38
STW-483	DISTRICT1	SW Graham btwn 21st Av SW and 18th Av SW	RC Reinforced Concrete		57	45
STW-484	DISTRICT1	SW Graham St btwn Croft and 22nd	RC Reinforced Concrete	Metal Pipe	205	135
STW-485	DISTRICT1	SW Graham St btwn 16th and 17th	RC Reinforced Concrete	Metal Pipe	66	50
STW-487	DISTRICT1	SW Henderson St btwn 22nd and Barton	RC Reinforced Concrete	Metal Pipe	43	28
STW-488	DISTRICT1	SW Holly St btwn Delridge and 21st	RC Reinforced Concrete	Metal Pipe	305	93
STW-489	DISTRICT1	SW Juneau St btwn 21st Ave SW and Croft Pl SW	RC Reinforced Concrete	Metal Pipe	388	186
STW-490	DISTRICT1	SW Spokane St btwn Marginal and Marginal	RC Reinforced Concrete	Metal Pipe	59	53
STW-491	DISTRICT1	30th Ave SW btwn 30th Ave SW and SW Admiral Way	RC Reinforced Concrete	Metal Pipe	59	40
STW-493	DISTRICT3	29th Ave btwn E Union St and E Spring St	RC Reinforced Concrete	Metal Pipe	51	41
STW-494	DISTRICT3	29th Ave btwn E Union St and E Pike St	RC Reinforced Concrete	Metal Pipe	24	20
STW-494B	DISTRICT3	29th Ave btwn E Union St and E Pike St	RC Reinforced Concrete	Metal Pipe	42	18
STW-495	DISTRICT3	Portage Bay Pl btwn E Allison St and E Martin St	Timber Frame Construction	Timber	33	25
STW-496	DISTRICT3	Grand Ave btwn Pike and Pine	RC Reinforced Concrete	Composite	38	28
STW-499	DISTRICT3	E Olive Ln btwn 40th Ave and Lake Wa Blvd	Concrete Slabs	Timber	84	59
STW-500	DISTRICT7	Pike St btwn Western Ave and Alaskan Way	RC Reinforced Concrete	Metal Pipe	420	101
STW-501	DISTRICT3	E Shelby St btwn Boyer and Lake Union	RC Reinforced Concrete	Metal Pipe	32	18
STW-502	DISTRICT4	NE 11th Ave NE At NE Campas	RC Reinforced Concrete	Metal Pipe	30	14

ASSET ID	DISTRICT	LOCATION	TYPE	RAIL TYPE	LENGTH	TREADS
STW-504	DISTRICT4	NE 45th St btwn 54th Av NE and 53rd Av NE	RC Reinforced Concrete	Metal Pipe	34	28
STW-505	DISTRICT4	NE 52nd St btwn 22nd Av NE and Ravenna Av	RC Reinforced Concrete		189	72
STW-506	DISTRICT5	NE 95th St btwn Lake City Way and 20th Ave NE	RC Reinforced Concrete	Metal Pipe	307	130
STW-507	DISTRICT5	NE 127th St btwn Roosevelt and 10th Av NE	RC Reinforced Concrete	Metal Pipe	28	15
STW-508	DISTRICT5	NE 130th St btwn 42nd Av NE and Riviera Pl	Composite	Timber	90	79
STW-509	DISTRICT5	NE 135th St btwn 40th Av NE and 42nd Av NE	RC Reinforced Concrete	Metal Pipe	294	196
STW-510	DISTRICT5	NE 133rd St btwn 23rd Av NE and 23rd Pl NE	RC Reinforced Concrete	Metal Pipe	66	42
STW-511	DISTRICT4	Ravenna Ave NE btwn NE 51st and NE 53rd	RC Reinforced Concrete	Metal Pipe	10	8
STW-512	DISTRICT6	NW 53rd St btwn NW Market St and Baker Ave NW	RC Reinforced Concrete	Metal Pipe	9	15
STW-513	DISTRICT6	Fremont Ave N At N 62nd St	RC Reinforced Concrete	Metal Pipe	74	55
STW-514	DISTRICT6	Meridian Ave N At N 80th St	RC Reinforced Concrete	Metal Pipe	16	11
STW-552A	DISTRICT2	S Ferdinand St btwn 30th Ave S and 31st Ave S	RC Reinforced Concrete	Metal Pipe	120	108
STW-552B	DISTRICT2	S Ferdinand St btwn 30th Ave S and 31st Ave S	RC Reinforced Concrete		100	4
STW-552C	DISTRICT2	S Ferdinand St btwn 30th Ave S and 31st Ave S	RC Reinforced Concrete	Metal Pipe	55	46
STW-552D	DISTRICT2	S Ferdinand St btwn 30th Ave S and 31st Ave S	RC Reinforced Concrete		96	12
STW-555	DISTRICT2	S Junkins St btwn 14th and 15th	Concrete Slabs	Metal Pipe	16	14
STW-556	DISTRICT3	S King St btwn 32nd Ave S and 33rd Ave S	Timber Frame Construction	Composite	26	18
STW-557	DISTRICT3	S King St btwn 33rd and Lake Wa	RC Reinforced Concrete	Metal Pipe	36	32
STW-559A	DISTRICT2	S Lucile St btwn 18th Ave S and 20th Ave S	RC Reinforced Concrete	Metal Pipe	50	19
STW-559B	DISTRICT2	S Lucile St btwn 18th Ave S and 20th Ave S	RC Reinforced Concrete	Metal Pipe	100	60
STW-559C	DISTRICT2	S Lucile St btwn 18th Ave S and 20th Ave S	RC Reinforced Concrete	Metal Pipe	250	78
STW-560	DISTRICT2	S Ferdinand St btwn 54th and 55th	Concrete Slabs	Timber	119	90
STW-561	DISTRICT2	S Ferdinand St btwn 53rd and 54th	Concrete Slabs	Timber	55	43
STW-562	DISTRICT1	SW Thistle St btwn 46th Ave SW and 44th Ave SW	Concrete Slabs	Timber	300	235
STW-565	DISTRICT7	919 Pine St btwn Pine St and Pike St	RC Reinforced Concrete		19	15
STW-567	DISTRICT4	Ravenna Ave Ne Between Ne 51St And Ne 53Rd	RC Reinforced Concrete	Steel	9	8
STW-568	DISTRICT5	NE 103rd St At Lake City Wy	RC Reinforced Concrete	Metal Pipe	183	89
STW-602	DISTRICT6	W 65th St btwn 37th Ave and 38th Ave	Concrete Slabs	Timber	57	41

APPENDIX C: STAIRWAY INVENTORY

ASSET ID	DISTRICT	LOCATION	TYPE	RAIL TYPE	LENGTH	TREADS
STW-605	DISTRICT1	6543 Beach Dr SW btwn Atlas Ps SW and 48th Ave SW	RC Reinforced Concrete	Metal Pipe	35	31
STW-609E	DISTRICT4	Aurora Ave N btwn N 46th St and Aurora Ave N	RC Reinforced Concrete	Metal Pipe	50	43
STW-609W	DISTRICT4	Aurora Ave N btwn N 46th St and Aurora Ave N	RC Reinforced Concrete	Metal Pipe	30	25
STW-610	DISTRICT6	24th Ave NW btwn 95th St and NW 94th St	Concrete Slabs	Timber	13	9
STW-613	DISTRICT3	Boyer Ave E At How St	Composite	Timber	100	62
STW-614	DISTRICT5	NE 105th St btwn Lakecity Way NE and Pacific Pl NE	RC Reinforced Concrete	Metal	38	27
STW-615	DISTRICT4	Wallingford Ave N btwn N 34th St and N Northlake Way	RC Reinforced Concrete	Metal Pipe	50	53
STW-616	DISTRICT7	ViNE St btwn Elliott Ave and Western Ave	RC Reinforced Concrete	Metal Pipe	110	23
STW-617	DISTRICT4	E Howe St btwn Franklin Pl E and Lakeview Blvd E	RC Reinforced Concrete	Metal Pipe	240	116
STW-619	DISTRICT6	3411 Fremont Ave N btwn Fremont Ave N and Evanston Ave N	RC Reinforced Concrete	Metal Pipe	35	25
STW-620	DISTRICT2	S Charlestown St btwn Courtland Pl S and 37th Ave S	RC Reinforced Concrete	Metal	110	64
STW-623	DISTRICT7	Galer Ave W btwn Bnsf and 16th Ave W	RC Reinforced Concrete	Metal Pipe	82	27
STW-625	DISTRICT7	NW thorndyke Ave W At W. Halladay St	RC Reinforced Concrete	Metal Pipe	150	83
STW-626	DISTRICT1	SW Myrtle St btwn 28th Ave SW and 27th Ave SW	RC Reinforced Concrete	Metal Pipe	156	91
STW-627	DISTRICT1	Sylvan Way SW btwn SW Myrtle St and 30th Ave SW	RC Reinforced Concrete	Metal Pipe	54	36
STW-629	DISTRICT3	305 S Lakeside Ave S btwn S Main St and Lk Wash Blvd	Steel Frame Construction	Metal	62	49
STW-630	DISTRICT7	W Barrett St btwn 14th Ave W and 15th Ave W	RC Reinforced Concrete	Metal Pipe	245	122
STW-634	DISTRICT7	Union St btwn Western Ave and 1st Ave	RC Reinforced Concrete	Metal	120	98
STW-635A	DISTRICT3	E Olive St At 32nd Ave	RC Reinforced Concrete		4	6
STW-635B	DISTRICT3	E Olive St At 32nd Ave	RC Reinforced Concrete		5	6
STW-638	DISTRICT2	S Atlantic St Between 3Rd Ave S And 4Th Ave S	RC Reinforced Concrete	Steel	200	47
STW-641	DISTRICT4	7Th Ave Ne Between Ne Northlake Pl And Ne 40Th St	RC Reinforced Concrete	Steel	40	29
STW-644	DISTRICT1	SW Avalon Way btwn SW Avalon Way and SW Spokane St	RC Reinforced Concrete	Metal Pipe	22	12
STW-645E	DISTRICT4	Aurora Ave N btwn N 38th St and Aurora Ave N	RC Reinforced Concrete	Metal Pipe	20	19
STW-645W	DISTRICT4	Aurora Ave N btwn N 38th St and Aurora Ave N	RC Reinforced Concrete	Metal Pipe	30	27
STW-651A	DISTRICT6	Holman rd NW At 13th Ave NW	Concrete Slabs	Metal	37	37
STW-651B	DISTRICT6	Holman rd NW At 13th Ave NW	Concrete Slabs	Metal	36	37
STW-659	DISTRICT4	Fairview Ave E And E Hamlin St	Timber		10	10

ASSET ID	DISTRICT	LOCATION	TYPE	RAIL TYPE	LENGTH	TREADS
STW-662	DISTRICT1	Sw Oregon St Between 35Th Ave Sw And Alley North Of 35Th Ave Sw	RC Reinforced Concrete	Steel	100	63
STW-665	DISTRICT7	24th Ave W btwn 24th Pl W and W Emerson St	Monolithic Concrete	Steel	35	27
STW-670	DISTRICT2	S Alaska Pl Between Dead End 1 And S Alaska St	RC Reinforced Concrete	Steel	65	43
STW-674	DISTRICT2	Beacon Ave S btwn 13th Ave S and 14th Ave S	RC Reinforced Concrete	Steel	13	10
STW-675	DISTRICT4	Montlake Blvd NE btwn NE Pacific St and NE Pacific Pl	RC Reinforced Concrete	Steel	110	73
STW-677	DISTRICT3	S Lander St btwn 33rd Ave S and 34th Ave S	Concrete Slabs		30	19
STW-678	DISTRICT2	Gale Pl S btwn S Walden St and Dead End	RC Reinforced Concrete	Wood	20	17
STW-679	DISTRICT1	SW Oregon St btwn Dead End 2 and 36th Ave SW	RC Reinforced Concrete	Steel	100	58
STW-686	DISTRICT3	31St Ave S Between S Massachusetts St And S Grand St	Street car slab	Steel	50	40
STW-696	DISTRICT1	17Th Ave Sw Between Sw Myrtle St And Dead End 6	RC Reinforced Concrete	Steel	16	12
STW-697	DISTRICT3	38Th Ave Between E Union St And E Pike S St	Monolithic Concrete		30	16
STW-700	DISTRICT7	Jesse Ave W Between Xw Jesse Ave W And W Emerson St	Monolithic Concrete	Steel	16	15
STW-702	DISTRICT7	Mercer St Between 6Th Ave N And Dexter Ave N	Monolithic Concrete	Steel	15	13
STW-703	DISTRICT7	Mercer St Between 6Th Ave N And Dexter Ave N	Monolithic Concrete	Steel	13	11



ASSET ID	DESCRIPTION	COUNCIL DISTRICT
ARW-001	1st Ave Between Bay St And Eagle St	DISTRICT7
ARW-002	Cherry St Between 2nd Ave And 1st Ave	DISTRICT7
ARW-003	Cherry St Between 3rd Ave And 2nd Ave	DISTRICT7
ARW-004	Cherry St Between 3rd Ave And 2nd Ave	DISTRICT7
ARW-005	Cherry St Between 2nd Ave And 3rd Ave	DISTRICT7
ARW-006	2401 1st Ave Between Battery St And Wall St	DISTRICT7
ARW-007	Union Rd Between 3rd Ave And Alley To 2nd Av	DISTRICT7
ARW-008	S Jackson St Between 5th Ave S And 6th Ave S	DISTRICT2
ARW-009	James St Between 1st Ave And Yesler Way	DISTRICT7
ARW-010	1115 1st Ave Between Seneca St And Spring St	DISTRICT7
ARW-011	3rd Ave Between Stewart St And Pine St	DISTRICT7
ARW-012	1500 1st Ave Between Pike St And Union St	DISTRICT7
ARW-013	S Main St Between 2nd Ave S And 2nd Ave Ext S	DISTRICT7
ARW-014	2004 Westlake Ave Between Virginia St And 7th Ave	DISTRICT7
ARW-015	2nd Ave At Pike St	DISTRICT7
ARW-017	5th Ave At Denny Way	DISTRICT7
ARW-018	Ballard Ave Nw Between 22nd Ave Nw And Nw Vernon Pl	DISTRICT6
ARW-019	2nd Ave S At Main St	DISTRICT7
ARW-020	2nd Ave S	DISTRICT7
ARW-021	1st Ave At Bay St	DISTRICT7
ARW-022	814 2nd Ave Between Marion St And Columbia St	DISTRICT7
ARW-023	214 Washington St Between 2nd Ave Ext And 3rd Ave	DISTRICT7
ARW-024	1921 1st Ave Between Stewart St And Virginia St	DISTRICT7
ARW-025	614 S Jackson St Between Maynard Ave S And 6th Ave S	DISTRICT2
ARW-026	621 S Jackson St Between Maynard Ave S And 6th Ave S	DISTRICT2
ARW-027	621 Maynard Ave S Between S Jackson St And S King St	DISTRICT2
ARW-028	621 S King St Between Maynard Ave S And 6th Ave S	DISTRICT2
ARW-029	621 S King St Between S King St And S Weller St	DISTRICT2
ARW-030	515 Maynard Ave S Between S King St And S Weller St	DISTRICT2
ARW-031	525 Maynard Ave S Between S King St And S Weller St	DISTRICT2
ARW-032	506 Maynard Ave S Between S King St And S Weller St	DISTRICT2
ARW-033	665 S King St Between 7th Ave S And Maynard Ave S	DISTRICT2
ARW-034	508.5 7th Ave S Between 8th Ave S And 7th Ave S	DISTRICT2
ARW-035	508.5 7th Ave S Between S King St And S Weller St	DISTRICT2
ARW-036	723 S King St Between 8th Ave S And 7th Ave S	DISTRICT2
ARW-037	723 S King St Between S King St And S Weller St	DISTRICT2
ARW-038	220 4th Ave S Between 5th Ave S And 4th Ave S	DISTRICT2
ARW-039	220 4th Ave S Between S Washington St And S Main St	DISTRICT2
ARW-040	216 4th Ave S Between S Washington St And S Main St	DISTRICT2
ARW-041	553 1st Ave S Between S King St And Railroad Way S	DISTRICT2
ARW-042	1028 1st Ave S Between Railroad Way S And S Royal Brougha	DISTRICT2
ARW-043	419 Occidental Ave S Between S Jackson St And S King St	DISTRICT2
ARW-066	300 S Washington St Between 3rd And 4th	DISTRICT7
ARW-067	3rd Ave S Between Yesler Way And Washington	DISTRICT7
ARW-068	S Washington St Between 3rd And 4th	DISTRICT7

ASSET ID	DESCRIPTION	COUNCIL DISTRICT
ARW-069	103 Prefontaine Between Yesler Way And Washington	DISTRICT7
ARW-070	Yesler Way Between 4th And 5th	DISTRICT2
ARW-071	83 S King St Between 1st Ave S And Alaskan Way S	DISTRICT2
ARW-072	83 S King St Between 1st Ave S And Alaskan Way S	DISTRICT2
ARW-073	83 S King St Between 1st Ave S And Alaskan Way S	DISTRICT2
ARW-074	83 S King St Between S King St And Railroad Way S	DISTRICT2
ARW-075	101 King St Between First Ave And Alaskan Fy	DISTRICT2
ARW-076	101 King St Between First Ave And Alaskan Fy	DISTRICT2
ARW-077	101 King St Between First Ave And Alaskan Fy	DISTRICT2
ARW-078	633 Post St Between Columbia St. And Cherry St.	DISTRICT7
ARW-079	Western St Between Columbia St. And Cherry St.	DISTRICT7
ARW-080	501 S Jackson St Between 6th Ave S And 5th Ave S	DISTRICT2
ARW-081	2004 Westlake Ave Between Virginia And 7th Ave	DISTRICT7
ARW-082	116 Stewart St Between 1st And Alley	DISTRICT7
ARW-083	102-08 Occidental Ave S Between Yesler And Washington	DISTRICT7
ARW-084	155 Yesler Way Between Occidental And 2nd Ave S	DISTRICT7
ARW-085	401-07 2nd Ave S Between Washington And Yesler Way	DISTRICT7
ARW-086	S Washington St Between Occidental And 2nd	DISTRICT7
ARW-087	411 2nd Ave S. Ext. Ave S Between Washington And Yesler	DISTRICT7
ARW-088	417 2nd Ave S Ext. Between Washington And Yesler Way	DISTRICT7
ARW-089	423 2nd Ave S. Ext. Ave S Between Yesler Way And Washington	DISTRICT7
ARW-090	Marion St Between 1st Ave And Post St	DISTRICT7
ARW-091	Marion St Between Post St. And 1st Ave	DISTRICT7
ARW-092	201 Yesler Way Between 2nd Ave S Ext And 3rd Ave S	DISTRICT7
ARW-093	408-12 2nd Ave S Ext Ave S Between Washington And Yesler Way	DISTRICT7
ARW-094	208 S Washington St Between 2nd Ave S Ext And 3rd Ave S	DISTRICT7
ARW-095	120 Pike St Between 1st Ave And 2nd Ave	DISTRICT7
ARW-096	201-5 1st Ave S Between Washington And Main	DISTRICT7
ARW-097	S Washington St Between 1st Ave S And Alaskan Way	DISTRICT7
ARW-098	207 1st Ave S Between Washington And Main	DISTRICT7
ARW-099	209 1st Ave S Between Washington And Main	DISTRICT7
ARW-100	211 1st Ave S Between Washington And Main	DISTRICT7
ARW-101	213 1st Ave S Between Washington And Main	DISTRICT7
ARW-102	219 1st Ave S Between Main And Washington	DISTRICT7
ARW-103	S Main St Between 1st Ave S And Alaskan Way	DISTRICT7
ARW-104	204 1st Ave S Between 1st Ave S And Occidental	DISTRICT7
ARW-105	S Washington St Between 1st Ave S And Occidental	DISTRICT7
ARW-106	206 1st Ave S Between Washington And Main	DISTRICT7
ARW-107	220 1st Ave S Between Main And Washington	DISTRICT7
ARW-108	1st Ave S At Main St	DISTRICT7
ARW-109	1st Ave S At Main	DISTRICT7
ARW-110	1st Ave S At Main	DISTRICT7
ARW-111	1st Ave S	DISTRICT7
ARW-112	W Ave S	DISTRICT7
ARW-113	1st Ave S	DISTRICT7

ASSET ID	DESCRIPTION	COUNCIL DISTRICT
ARW-114	1st Ave S	DISTRICT7
ARW-115	S Main St Between 1st Ave S And Occidental	DISTRICT7
ARW-116	117 S Washington St Between 1st Ave S And Occidental	DISTRICT7
ARW-117	1400 3rd Ave Between Pike St And Union	DISTRICT7
ARW-118	215 2nd Ave S Between Washington And Main	DISTRICT7
ARW-119		DISTRICT7
ARW-120	173 S Washington St Between Occidental And 2nd Ave S	DISTRICT7
ARW-121	2nd Ave S Between Washington And Main	DISTRICT7
ARW-122	165-69 S Washington St Between 1st Ave S And Occidental	DISTRICT7
ARW-123	S Washington St Between 2nd Ave S And 2nd Ave S Ext	DISTRICT7
ARW-124	201 2nd Ave S Between Washington And Main	DISTRICT7
ARW-125	2nd Ext Ave S Between Washington And Main	DISTRICT7
ARW-126	200 S Washington St Between 2nd Ave S Ext And 3rd Ave S	DISTRICT7
ARW-127	318 2nd Ave S Ext Ave S Between Washington And Main	DISTRICT7
ARW-128	201 3rd Ave S Between Washington And Main	DISTRICT7
ARW-129	S Washington St Between 2nd Ave S Ext And 3rd Ave S	DISTRICT7
ARW-130	219 S Washington St Between 2nd Ave S Ext And 3rd Ave S	DISTRICT7
ARW-131	301 1st Ave S Between Main And Jackson	DISTRICT7
ARW-132	S Main St Between 1st Ave S And Alaskan Way	DISTRICT7
ARW-134	313 1st Ave S Between Main And Jackson	DISTRICT7
ARW-135	317 1st Ave S Between Main And Jackson	DISTRICT7
ARW-136	321 1st Ave S Between Main And Jackson	DISTRICT7
ARW-137	S Jackson St Between 1st Ave S And Alaskan Way	DISTRICT2
ARW-138	300 1st Ave S Between Main And Jackson	DISTRICT7
ARW-139	S Main St Between 1st Ave S And Occidental	DISTRICT7
ARW-140	310 1st Ave S Between Main And Jackson	DISTRICT7
ARW-141	314 1st Ave S Between Main And Jackson	DISTRICT7
ARW-142	316 1st Ave S Between Main And Jackson	DISTRICT7
ARW-143	322 1st Ave S Between Jackson And Main	DISTRICT7
ARW-144	S Jackson St Between 1st Ave S And Jackson	DISTRICT2
ARW-145	122 S Jackson St Between Occidental And 1st Ave	DISTRICT2
ARW-146	Occidental Ave S Between Jackson And Main	DISTRICT2
ARW-147	311-13 Occidental Ave S Between Jackson And Main	DISTRICT2
ARW-148	301-09 Occidental Ave S Between Main And Jackson	DISTRICT2
ARW-149	S Main St Between 1st Ave S And Occidental	DISTRICT7
ARW-150	117 S Main St Between 1st Ave S And Occidental	DISTRICT7
ARW-151	300-12 Occidental Ave S Between Main And Jackson	DISTRICT2
ARW-152	S Main St Between Occidental And 2nd Ave S	DISTRICT7
ARW-153	322 Occidental Ave S Between Jackson And Main	DISTRICT2
ARW-154	S Jackson St Between Occidental And 2nd Ave S	DISTRICT2
ARW-155	170 S Jackson St Between Occidental And 2nd Ave S	DISTRICT2
ARW-156	2nd Ave S Between Occidental And Jackson	DISTRICT7
ARW-157	313-17 2nd Ave S Between Main And Jackson	DISTRICT7
ARW-158	S Jackson St Between 1st Ave S And Alaskan Way	DISTRICT2
ARW-159	401 1st Ave S Between Jackson And King	DISTRICT2

ASSET ID	DESCRIPTION	COUNCIL DISTRICT
ARW-160	1st Ave S Between Jackson And King	DISTRICT2
ARW-161	1st Ave S Between King And Jackson	DISTRICT2
ARW-162	627 1st Ave Between Cherry And Columbia	DISTRICT7
ARW-163	625 1st Ave Between Cherry And Yesler	DISTRICT7
ARW-164	203 Pike St Between 2nd Ave And 3rd Ave	DISTRICT7
ARW-165	2033 2nd Ave Between Lenora St And Lenora St	DISTRICT7
ARW-166	605 1st Ave Between Cherry And Yesler	DISTRICT7
ARW-167	Yesler Way Between Post And 1st Ave	DISTRICT7
ARW-168	90 Yesler Way Between 1st Ave And Post Ave	DISTRICT7
ARW-169	Post Ave Between Yesler And Columbia	DISTRICT7
ARW-170	205 2nd Ave Between Cherry St And Cherry St	DISTRICT7
ARW-171	101 S Jackson St Between Occidental And 1st Ave	DISTRICT2
ARW-172	Occidental Ave S Between Jackson And King	DISTRICT2
ARW-173	Occidental Ave S Between King And Jackson	DISTRICT2
ARW-174	212 4th Ave S Between Washington And Main	DISTRICT2
ARW-175	4th Ave S Between Main And Jackson	DISTRICT2
ARW-176	2200 1st Ave Between Blanchard And Bell St	DISTRICT7
ARW-177	2200 1 St Ave Between Blanchard And Bell St	DISTRICT7
ARW-179	400-10 Occidental Ave S Between Jackson And King	DISTRICT2
ARW-180	S Jackson St Between Occidental And 2nd Ave S	DISTRICT2
ARW-182	171 S Jackson St Between Occidental And 2nd Ave S	DISTRICT2
ARW-183	2nd Ave S Between Jackson And King	DISTRICT2
ARW-184	1st Ave Between Cherry And Columbia	DISTRICT7
ARW-185	102 Cherry St Between 1st Ave And 2nd Ave	DISTRICT7
ARW-186	223 Yesler Way Between 2nd Ave S Ext And 3rd Ave S	DISTRICT7
ARW-187	3rd Ave S Between Yesler Way And Washington	DISTRICT7
ARW-188	624 1st Ave Between Cherry And James	DISTRICT7
ARW-189	107 Cherry Between 1st Ave And 2nd Ave	DISTRICT7
ARW-190	616 1st Ave Between Cherry And James	DISTRICT7
ARW-191	611-14 1st Ave Between Cherry And James	DISTRICT7
ARW-192	608-10 1st Ave Between Cherry And James	DISTRICT7
ARW-193	100-08 James St Between Yesler And 2nd Ave	DISTRICT7
ARW-194	600-06 1st Ave Between Cherry And James	DISTRICT7
ARW-195	601-11 2nd Ave Between Cherry And James	DISTRICT7
ARW-196	James St Between Yesler And 2nd	DISTRICT7
ARW-197	619 2nd Ave Between Cherry And James	DISTRICT7
ARW-198	2nd Ave S Between Main And Washington	DISTRICT7
ARW-199	206 2nd Ave S Between Main And Washington	DISTRICT7
ARW-200	S Main St Between 2nd Ave S And 2nd Ave S Ext	DISTRICT7
ARW-201	222 S Main St Between 2nd Ave S And 2nd Ave S Ext	DISTRICT7
ARW-202	618 2nd Ave Between James And Cherry	DISTRICT7
ARW-203	606-08 2nd Ave Between Cherry And James	DISTRICT7
ARW-204	200 James St Between 2nd And 3rd	DISTRICT7
ARW-205	2nd Ave Between Cherry And James	DISTRICT7
ARW-206	200 James St Between 2nd Ave And 3rd Ave	DISTRICT7



ASSET ID	DESCRIPTION	COUNCIL DISTRICT
ARW-207	506 Maynard Ave S Between King St And Weller St	DISTRICT2
ARW-208	610 Pike St Between 6th Ave And 7th Ave	DISTRICT7
ARW-209	213 S Main St Between 2nd Ave S Ext And 2nd Ave S	DISTRICT7
ARW-210	309 3rd Ave S Between 2nd Ave S Ext And S Jackson St	DISTRICT7
ARW-211	220 S Jackson St Between 2nd Ave S And 3rd Ave S	DISTRICT2
ARW-212	208.5 S Jackson St Between 2nd Ave S And 3rd Ave S	DISTRICT2
ARW-213	2nd Ave S Between Jackson And Main	DISTRICT7
ARW-214	316.5 2nd Ave S Between Jackson And Main	DISTRICT7
ARW-215	James St Between Yesler And 2nd Ave	DISTRICT7
ARW-216	515 2nd Ave Between James And Yesler	DISTRICT7
ARW-217	Yesler Way Between James And 2nd Ave	DISTRICT7
ARW-218	222 S Main St Between 2nd Ave S Ext And 4th Ave S	DISTRICT7
ARW-219	2nd Ave S Ext Between Main And Jackson	DISTRICT7
ARW-220	518-24 2nd Ave Between James And Yesler	DISTRICT7
ARW-221	506 2nd Ave Between James And Yesler	DISTRICT7
ARW-222	706 Pike St Between 7th Ave And 8th Ave	DISTRICT7
ARW-223	220 3rd Ave S Between Main And Washington	DISTRICT7
ARW-224	S Main St Between 3rd Ave S And 4th Ave S	DISTRICT7
ARW-225	212 3rd Ave S Between Main And Washington	DISTRICT7
ARW-226	218 3rd Ave S Between Main And Washington	DISTRICT7
ARW-227	206 3rd Ave S Between Main And Washington	DISTRICT7
ARW-228	89 S Yesler Way Between 1st And Alaskan Way	DISTRICT7
ARW-229	101 1st Ave S Between Yesler And Washington	DISTRICT7
ARW-230	S Yesler Way Between 1st Ave And Alaskan Way	DISTRICT7
ARW-231	107 1st Ave S Between Yesler And Washington	DISTRICT7
ARW-232	109-15 1st Ave S Between Yesler And Washington	DISTRICT7
ARW-233	119-23 1st Ave S Between Yesler And Washington	DISTRICT7
ARW-234	S Washington St Between 1st Ave S And Alaskan Way	DISTRICT7
ARW-235	S Washington St Between Post Ave And Alaskan Way	DISTRICT7
ARW-236	Yesler Way Between Prefontaine And 4th Ave S	DISTRICT7
ARW-237	4th Ave S Between Yesler Way And Washington	DISTRICT2
ARW-238	110 Prefontaine Pl Between Yesler Way And Washington	DISTRICT7
ARW-239	100 1st Ave S Between Yesler And Washington	DISTRICT7
ARW-240	Yesler Way Between 1st Ave S And Occidental	DISTRICT7
ARW-241	106 1st Ave S Between Yesler And Washington	DISTRICT7
ARW-242	108-12 1st Ave S Between Yesler And Washington	DISTRICT7
ARW-243	114-16 1st Ave S Between Yesler And Washington	DISTRICT7
ARW-244	120 1st Ave S Between Yesler And Washington	DISTRICT7
ARW-245	S Washington St Between 1st And Occidental	DISTRICT7
ARW-246	116 S Washington Between 1st Ave And Occidental	DISTRICT7
ARW-247	S Washington St Between 1st Ave South And Occidental	DISTRICT7
ARW-248	121 Occidental Ave S Between Yesler And Washington	DISTRICT7
ARW-249	S Washington St Between 1st Ave S And Occidental	DISTRICT7
ARW-250	117 Occidental Ave S Between Yesler And Washington	DISTRICT7
ARW-251	107 Occidental Ave S Between Yesler And Washington	DISTRICT7

ASSET ID	DESCRIPTION	COUNCIL DISTRICT
ARW-252	117 Yesler Way Between 1st Ave And Occidental	DISTRICT7
ARW-253	Occidental Ave S Between Washington And Yesler	DISTRICT7
ARW-254	111 Yesler Way Between 1st And Occidental	DISTRICT7
ARW-255	109 Yesler Ave S Between 1 St Ave S. And Occidental	DISTRICT7
ARW-256	Eastlake Ave E At Nelson St	DISTRICT3
ARW-257	1501 4th Ave Between Pike St And Pine St	DISTRICT7
ARW-258	1st Ave At Union St	DISTRICT7
ARW-259	2115 Westlake Ave At Lenora St	DISTRICT7
ARW-395	E PINE ST BETWEEN 10TH AVE AND 11TH AVE at 1535 11TH AVE	DISTRICT3
ARW-396	12TH AVE BETWEEN E PIKE ST AND E PINE ST at 1528 12TH AVE	DISTRICT3
ARW-440	10TH AVE BETWEEN E PIKE ST AND E UNION ST	DISTRICT3
ARW-441	10TH AVE BETWEEN E PIKE ST AND E UNION ST	DISTRICT7
ARW-*	1st Ave S between Main and Jackson	DISTRICT7

**CITY OWNED BRIDGES WITH POSTED VEHICLE WEIGHT RESTRICTIONS**

<b>ASSET ID</b>	<b>NAME</b>	<b>WEIGHT RESTRICTION</b>
BRG-015	Cowen Park	Single Truck 7 Axle - 36 Tons
BRG-023A	Magnolia Br, Pier 91 Ramps	No Trucks Allowed
BRG-029	McGraw Street Bridge	Single Truck 2 Axle-14 Tons
		Single Truck 3 Axle-18 Tons
		Truck Semi Trailer-28 Tons
		Truck and Trailer -35 Tons
BRG-056	E Interlaken Boulevard	Weight Limit 19 Tons
BRG-070	Fairview Ave N (southbound)	Weight Limit 40 Tons



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