SDOT's Transportation Infrastructure Status & Condition Report



SDOT ASSET MANAGEMENT

Status and Condition Report





TRB Conference Emily M. Burns, PMP July 2016



Our mission, vision, and core values

Mission: deliver a high-quality transportation system for Seattle

Vision: connected people, places, and products

Committed to 5 core values to create a city that is:

- Safe
- Interconnected
- Affordable
- Vibrant
- Innovative

For all

Seattle: A Snapshot



- One of fastest growing cities in US
- Economy is based on high-tech, education, seaport, industry, culture
- Geography is hilly, with fresh- and saltwater bodies limiting land area
- Geology features glacial till and saturated soils plus earthquake hazard

SDOT Asset Management Background

- 1970s: started Structures AM program
- 1980s: started Pavement AM program
- 2007: Department-wide Program, funded by Bridging the Gap Levy delivered first Status & Condition Report
- Program hiatus for 2 years (recession and staffing)
- 2013: Hired new AM Manager to rebuild program
- 2016: Now titled the Asset & Performance Management Program with 7 employees

SDOT Asset Management Background (cont.)



Before

After

Natural Habita

SDOT Asset Management Background (cont.)

- Primary Focus of AM Program Implementation:
 - Asset Status & Condition Reporting
 - Central Database for Asset & Work Management
- Preliminary Work on AM Practice Areas:
 - Levels of Service
 - Risk
 - Organizational Competency
 - Performance Measures

SDOT Status & Condition Report

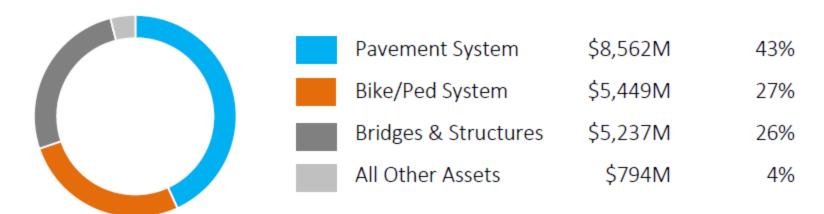
- Published December 2015: seattle.gov/transportation/inventory.htm
- Provides technical information on 47 assets within 11 recognized asset classes
- Useful reference for decision-making
- Reference guide for general public
- Informs future year budgets
- Gap analysis to increase AM competency
- Revised the third edition to support MAP-21 requirements

Expanded Report

- Long-term operational cost forecasting
- Measures and trends that link to <u>performance.seattle.gov/</u>
- Estimated asset data confidence, replaced asset condition TBD with Unknown
- Better unit cost data, e.g., sidewalks by sq. ft., component
- Revised asset classes to better align with internal AM practices
- Bookmarked PDF, easily navigable with icons for each chapter in the footer



Total Replacement Cost



Data Confidence

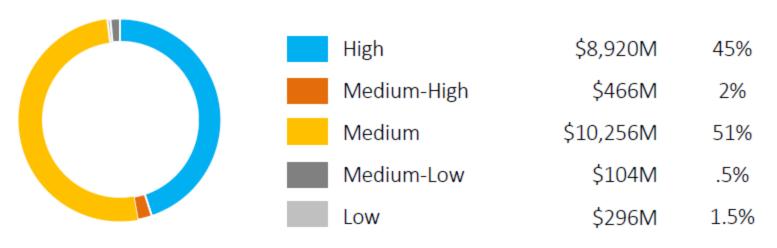


Table II: SDOT TRANSPORTATION INFRASTRUCTURE ASSETS = \$20 BILLION

			Replacement	Data		Condition		
	Asset Class/Asset	Inventory Status	Value (\$M)	Confidence	Good	• Fair	• Poor	Unk.
11	BIKE & PEDESTRIAN SYSTEM	· ·	\$5,449					
1 1	Bicycle Racks	3,301	\$2.2	High	97.8%	1.2%	0.5%	0.5%
	Kiosk	150 (e)	\$1.1	Low				100%
	Marked Crosswalks	5,357	\$5.4	Medium-High	53.4%	16.7%	29.6%	<1%
	Sidewalks	33,373 block faces	\$5,280	Medium	23.9%	5.6%	1.0%	69.6%
	Stairways	509	\$63.6	Medium-High	61%	28%	11%	
	Street Furnishings	Unknown	Unknown	Low				100%
	Trails	40.2 lane miles	\$96.3	Medium-Low				100%
T	BRIDGES & STRUCTURES		\$5,237					
	Air Raid Siren Tower	1	\$.5	High	100%			N/A
	Areaway Street Walls	236	\$218.0	Low	11%	58%	12%	19%
	Bridges	117	\$4,112.0	High	31%	52%	17%	0%
	Bridge Hydrant Vaults	13	\$.65	High	100%			
	Elevator	1	\$1.5	High	100%			
	Retaining Walls	582	\$903.1	Medium	42%	36%	19%	3%
_ 1	Tunnel	1	\$.74	High		100%		
A	CHANNELIZATION		\$4.9					
4.1	Pavement Markings		\$4.9	Medium				100%
21	INTELLIGENT TRANSPORTATION SYST	391	\$377.5	Medium	32.5%	6.6%	1.0%	59.8%
	Beacons		\$5.9	Medium	32.370	0.070	1.076	59.670
	Bluetooth Readers	Service	\$0.0		52.5%			47.5%
	Cameras	257	\$2.6	Medium Low	52.5%			
	Communications Network Counters	150 miles (e)	\$75.0 \$.3	Medium-High				100%
		13 51	\$9.7	Medium-High	100%			
	Dynamic Message Signs Network Hubs	14	\$9.7 \$.9	Medium-High	100%			100%
		43	\$.43	Medium-nign	53.5%			46.5%
	Radar Speed Signs Transportation Operations Center	1	\$1.0		100%			40.570
	Traffic Signal Assemblies	1.071	\$281.1	High	12%	51%	35%	2%
a	PARKING PAYMENT DEVICES	1,0/1	\$20	Medium-High	1270	31/0	3370	270
•	Pay Stations	2,022	\$20	High	100%			
-		2,022	\$8,562	THE !	100%			
-	Arterial	1,547 lane miles	\$4,678	High	46.5%	17.8%	35.7%	
	Non-arterial	2,407 lane miles	\$3,884	Medium	59.9%	11.5%	13.6%	15.0%
65	REAL PROPERTY	2,107 lane lines	\$80.5					
10	REAL PROPERTY Buildings & Yards	15		Medium-High	40%	40%	20%	
13	Buildings & Yards	15	\$80.5		40%	40%	20%	N/A
19	Buildings & Yards Parcels	15 57	\$80.5 \$80.5 N/A	Medium-High	40%	40%	20%	N/A N/A
	Buildings & Yards Parcels Shoreline Street Ends (ROW)	15	\$80.5 \$80.5 N/A N/A	Medium-High Medium-High	40%	40%	20%	N/A N/A
•	Buildings & Yards Parcels Shoreline Street Ends (ROW) SIGNS	15 57 143 (e)	\$80.5 \$80.5 N/A N/A \$66.8	Medium-High Medium-High Medium-Low	40%	40%		N/A
(B)	Buildings & Yards Parcels Shoreline Street Ends (ROW)	15 57 143 (e) 181,431	\$80.5 \$80.5 N/A N/A	Medium-High Medium-High			20%	
₩ • •	Buildings & Yards Parcels Shoreline Street Ends (ROW) SIGNS Sign Assemblies	15 57 143 (e) 181,431	\$80.5 \$80.5 N/A N/A \$66.8 \$66.8	Medium-High Medium-High Medium-Low				N/A
₩ • E	Buildings & Yards Parcels Shoreline Street Ends (ROW) SIGNS Sign Assemblies TRAFFIC SAFETY STRUCTURES & DEVI	15 57 143 (e) 181,431	\$80.5 \$80.5 N/A N/A \$66.8 \$66.8 \$30.9	Medium-High Medium-High Medium-Low Medium				N/A 60.5%
. □	Buildings & Yards Parcels Shoreline Street Ends (ROW) SIGNS Sign Assemblies TRAFFIC SAFETY STRUCTURES & DEVI	15 57 143 (e) 181,431 CES	\$80.5 \$80.5 N/A N/A \$66.8 \$66.8 \$30.9 \$.66	Medium-High Medium-High Medium-Low Medium	39.5%	<.01%	<.01%	N/A 60.5%
ė	Buildings & Yards Parcels Shoreline Street Ends (ROW) SIGNS Sign Assemblies TRAFFIC SAFETY STRUCTURES & DEVI Chicanes Crash Cushions	15 57 143 (e) 181,431 CES 22 40	\$80.5 \$80.5 N/A N/A \$66.8 \$66.8 \$30.9 \$.66 \$.78	Medium-High Medium-High Medium-Low Medium	39.5% 82.1%	<.01%	<.01%	N/A 60.5% 100% 5.1%
● E	Buildings & Yards Parcels Shoreline Street Ends (ROW) SIGNS Sign Assemblies TRAFFIC SAFETY STRUCTURES & DEVI Chicanes Crash Cushions Guardrails	15 57 143 (e) 181,431 CES 22 40 75,000 LF, 772 units	\$80.5 \$80.5 N/A N/A \$66.8 \$66.8 \$30.9 \$.66 \$.78	Medium-High Medium-High Medium-Low Medium Low Medium Medium-Low	39.5% 82.1%	<.01%	<.01%	N/A 60.5% 100% 5.1% 4.3%
• @	Buildings & Yards Parcels Shoreline Street Ends (ROW) SIGNS Sign Assemblies TRAFFIC SAFETY STRUCTURES & DEVI Chicanes Crash Cushions Guardrails Median Islands	15 57 143 (e) 181,431 CES 22 40 75,000 LF, 772 units 500 (e)	\$80.5 \$80.5 N/A N/A \$66.8 \$66.8 \$30.9 \$.66 \$.78 \$7.5 Unknown	Medium-High Medium-High Medium-Low Medium Low Medium Medium-Low Low	39.5% 82.1%	<.01%	<.01%	N/A 60.5% 100% 5.1% 4.3% 100%
• •	Buildings & Yards Parcels Shoreline Street Ends (ROW) SIGNS Sign Assemblies TRAFFIC SAFETY STRUCTURES & DEVI Chicanes Crash Cushions Guardrails Median Islands Speed Cushions	15 57 143 (e) 181,431 CES 22 40 75,000 LF, 772 units 500 (e) 25 (e)	\$80.5 \$80.5 N/A N/A \$66.8 \$66.8 \$30.9 \$.66 \$.78 \$7.5 Unknown \$.31	Medium-High Medium-Low Medium Low Medium Medium Medium-Low Low	39.5% 82.1%	<.01%	<.01%	N/A 60.5% 100% 5.1% 4.3% 100% 100%
• E	Buildings & Yards Parcels Shoreline Street Ends (ROW) SIGNS Sign Assemblies TRAFFIC SAFETY STRUCTURES & DEVI Chicanes Crash Cushions Guardrails Median Islands Speed Cushions Speed Dots	15 57 143 (e) 181,431 CES 22 40 75,000 LF, 772 units 500 (e) 25 (e) 3	\$80.5 \$80.5 N/A N/A \$66.8 \$66.8 \$30.9 \$.66 \$.78 \$7.5 Unknown \$.31 \$.02	Medium-High Medium-Low Medium Low Medium Medium Medium-Low Low Low	39.5% 82.1%	<.01%	<.01%	N/A 60.5% 100% 5.1% 4.3% 100% 100%
• •	Buildings & Yards Parcels Shoreline Street Ends (ROW) SIGNS Sign Assemblies TRAFFIC SAFETY STRUCTURES & DEV Chicanes Crash Cushions Guardrails Median Islands Speed Cushions Speed Humps	15 57 143 (e) 181,431 CES 22 40 75,000 LF, 772 units 500 (e) 25 (e) 3 100 (e) 1,056	\$80.5 \$80.5 N/A N/A \$66.8 \$66.8 \$30.9 \$.66 \$.78 \$7.5 Unknown \$.31 \$.02 \$.50	Medium-High Medium-Low Medium Low Medium Medium-Low Low Low Low Low	39.5% 82.1% 50.9%	<.01% 7.7% 44.6%	<.01% 5.1% 0.3%	N/A 60.5% 100% 5.1% 4.3% 100% 100% 100%
ė	Buildings & Yards Parcels Shoreline Street Ends (ROW) SIGNS Sign Assemblies TRAFFIC SAFETY STRUCTURES & DEV Chicanes Crash Cushions Guardrails Median Islands Speed Cushions Speed Humps Traffic Circles	15 57 143 (e) 181,431 CES 22 40 75,000 LF, 772 units 500 (e) 25 (e) 3 100 (e)	\$80.5 \$80.5 N/A N/A \$66.8 \$66.8 \$30.9 \$.66 \$.78 \$7.5 Unknown \$.31 \$.02 \$.50 \$21.1	Medium-High Medium-Low Medium Low Medium Medium-Low Low Low Low Low	39.5% 82.1% 50.9%	<.01% 7.7% 44.6%	<.01% 5.1% 0.3%	N/A 60.5% 100% 5.1% 4.3% 100% 100% 100%
• • •	Buildings & Yards Parcels Shoreline Street Ends (ROW) SIGNS Sign Assemblies TRAFFIC SAFETY STRUCTURES & DEVICTION Chicanes Crash Cushions Guardrails Median Islands Speed Cushions Speed Dots Speed Humps Traffic Circles TRANSIT	15 57 143 (e) 181,431 CES 22 40 75,000 LF, 772 units 500 (e) 25 (e) 3 100 (e) 1,056	\$80.5 \$80.5 N/A N/A \$66.8 \$66.8 \$30.9 \$.66 \$.78 \$7.5 Unknown \$.31 \$.02 \$.50 \$21.1 \$106.2	Medium-High Medium-Low Medium Low Medium Medium-Low Low Low Low Low	39.5% 82.1% 50.9%	<.01% 7.7% 44.6%	<.01% 5.1% 0.3%	N/A 60.5% 100% 5.1% 4.3% 100% 100% 100%
• E	Buildings & Yards Parcels Shoreline Street Ends (ROW) SIGNS Sign Assemblies TRAFFIC SAFETY STRUCTURES & DEVI Chicanes Crash Cushions Guardrails Median Islands Speed Cushions Speed Dots Speed Humps Traffic Circles TRANSIT Historic Transit Shelters	15 57 143 (e) 181,431 CES 22 40 75,000 LF, 772 units 500 (e) 25 (e) 3 100 (e) 1,056	\$80.5 \$80.5 N/A N/A \$66.8 \$66.8 \$30.9 \$.66 \$.78 \$7.5 Unknown \$.31 \$.02 \$.50 \$21.1 \$106.2 \$.22	Medium-High Medium-High Medium-Low Medium Low Medium Medium-Low Low Low Low Low How Low Low Low Low Low Hedium High	39.5% 82.1% 50.9% 94.7%	<.01% 7.7% 44.6%	<.01% 5.1% 0.3%	N/A 60.5% 100% 5.1% 4.3% 100% 100% 100%
● E	Buildings & Yards Parcels Shoreline Street Ends (ROW) SIGNS Sign Assemblies TRAFFIC SAFETY STRUCTURES & DEVI Chicanes Crash Cushions Guardrails Median Islands Speed Cushions Speed Dots Speed Humps Traffic Circles TRANSIT Historic Transit Shelters Real Time Transit Information Signs	15 57 143 (e) 181,431 CES 22 40 75,000 LF, 772 units 500 (e) 25 (e) 3 100 (e) 1,056	\$80.5 \$80.5 N/A N/A \$66.8 \$66.8 \$30.9 \$.66 \$.78 \$7.5 Unknown \$.31 \$.02 \$.50 \$21.1 \$106.2 \$.22 \$2.3	Medium-High Medium-Low Medium Low Medium Medium Low Low Low Low Low Hedium Medium-Liow Low Low Low Medium-Liow Low Medium-Liow Low Medium-Liow Medium-Liow Medium-Liow	39.5% 82.1% 50.9% 94.7% 100% 100%	<.01% 7.7% 44.6%	<.01% 5.1% 0.3%	N/A 60.5% 100% 5.1% 4.3% 100% 100% 100%
(D) (D)	Buildings & Yards Parcels Shoreline Street Ends (ROW) SIGNS Sign Assemblies TRAFFIC SAFETY STRUCTURES & DEVI Chicanes Crash Cushions Guardrails Median Islands Speed Cushions Speed Dots Speed Humps Traffic Circles TRANSIT Historic Transit Shelters Real Time Transit Information Signs Streetcar System	15 57 143 (e) 181,431 CES 22 40 75,000 LF, 772 units 500 (e) 25 (e) 3 100 (e) 1,056 2 13 2 Lines	\$80.5 \$80.5 N/A N/A \$66.8 \$66.8 \$30.9 \$.66 \$.78 \$7.5 Unknown \$.31 \$.02 \$.50 \$21.1 \$106.2 \$.22 \$2.3 \$103.0	Medium-High Medium-Low Medium Low Medium Medium Low Low Low Low Low Hedium Medium-High Medium-High Medium-High	39.5% 82.1% 50.9% 94.7% 100% 100%	<.01% 7.7% 44.6%	<.01% 5.1% 0.3%	N/A 60.5% 100% 5.1% 4.3% 100% 100% 100% 1.3%
₩ E	Buildings & Yards Parcels Shoreline Street Ends (ROW) SIGNS Sign Assemblies TRAFFIC SAFETY STRUCTURES & DEV Chicanes Crash Cushions Guardrails Median Islands Speed Cushions Speed Humps Traffic Circles TRANSIT Historic Transit Shelters Real Time Transit Information Signs Streetcar System Transit Loading Platforms	15 57 143 (e) 181,431 CES 22 40 75,000 LF, 772 units 500 (e) 25 (e) 3 100 (e) 1,056 2 13 2 Lines	\$80.5 \$80.5 N/A N/A \$66.8 \$66.8 \$30.9 \$.66 \$.78 \$7.5 Unknown \$.31 \$.02 \$.50 \$21.1 \$106.2 \$.22 \$2.3 \$103.0 \$.70	Medium-High Medium-Low Medium Low Medium Medium Low Low Low Low Low Hedium Medium-High Medium-High Medium-High	39.5% 82.1% 50.9% 94.7% 100% 100%	<.01% 7.7% 44.6%	<.01% 5.1% 0.3%	N/A 60.5% 100% 5.1% 4.3% 100% 100% 100% 1.3%
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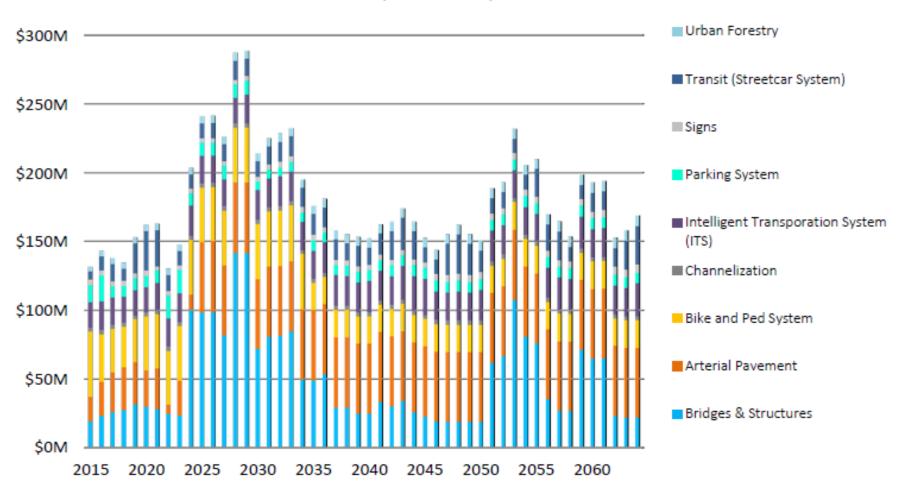
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Stairways	509	\$63.6	Medi um H igh	61%	28%	11%		
Street Furnishings	Unknown	Unknown	Low				100%	
Trails	40.2 lane miles	\$96.3	Medium-Low				100%	
BRIDGES & STRUCTURES		\$5,237						
Air Raid Siren Tower	1	\$.5	High	100%			N/A	
Areaway Street Walls	236	\$218.0	Low	11%	58%	12%	19%	
Bridges	117	\$4,112.0	High	31%	52%	17%	0%	
Bridge Hydrant Vaults	13	\$.65	High	100%				
Elevator	1	\$1.5	High	100%				
Retaining Walls	582	\$903.1	Medium	42%	36%	19%	3%	
Tunnel	1	\$.74	High		100%			

INTELLIGENT TRANSPORTAT	ION SYSTEM	\$377.5					
Beacons	391	\$5.9	Medium	32.5%	6.6%	1.0%	59.8%
Bluetooth Readers	Service	\$0.0					
Cameras	257	\$2.6	Medium	52.5%			47.5%
Communications Network	150 miles (e)	\$75.0	(Low)			(100%
Counters	13	\$.3	Medium-High				
Dynamic Message Signs	51	\$9.7	Medium-High	100%			
Network Hubs	14	\$.9	Medium-High				100%
Radar Speed Signs	43	\$.43	Medium	53.5%			46.5%
Transportation Operations		\$1.0					
Center	1	\$1.0	High	100%			
Traffic Signal Assemblies	1,071	\$281.1	Medium-High	12%	51%	35%	2%
PAVEMENT SYSTEM		\$8,562					
Arterial	1,547 lane miles	\$4,678	High	46.5%	17.8%	35.7%	
Non-arterial	2,407 lane miles	\$3,884	Medium	59.9%	11.5%	13.6%	15.0%

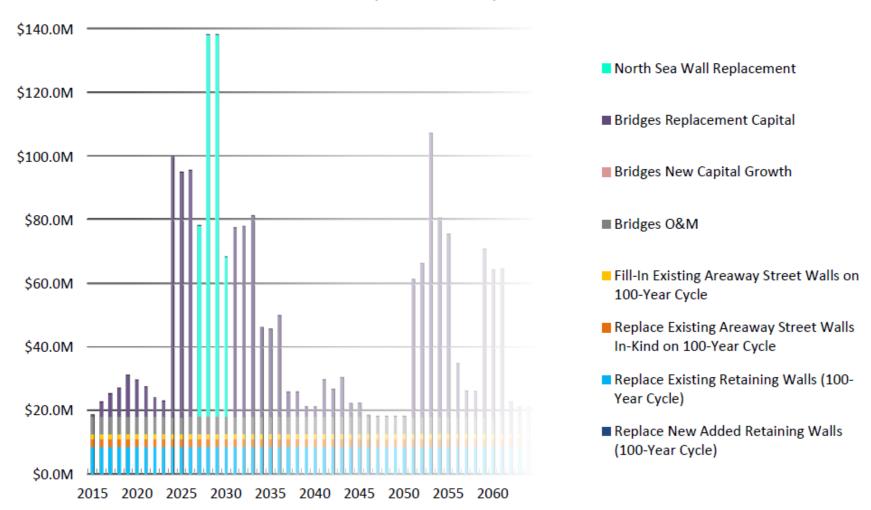
Table I: Performance Measures

Policy goal/Performance Measure BRIDGING THE GAP	2014 Planned	2014 Results	2015 Planned	Goal Met	Trend	Desired Trend
Percentage of planned annual Bridging the Gap programmatic goals met or exceeded (Annual measure: 2012 & 2013) (5-year Rolling Trend)	99.1%	98.6%	90.0%	•		1
BIKE & PEDESTRIAN SYSTEM						
Marked Crosswalks – # of crosswalks remarked	500	512	500			
Sidewalks – % of sidewalk repair requests responded to within 5 business days of notification	NA	NA	80%			
BRIDGES & STRUCTURES						
Bridges – # of bridge repair requests completed	190	366	253			
Bridges – # of inspections performed on NBI (National Bridge Institute) bridges	95	95	124			
CHANNELIZATION						
Pavement Markings – # of miles of painted centerline marking re-striped	850	855	520			
INTELLIGENT TRANSPORTATION SYSTEM						
% of Transportation Operations Center downtime due to planned maintenance	0.01%	NA	0.01%			
Traffic Signal Assemblies –% of downtime due to planned maintenance	0.01	NA	0.01			
Traffic signal assembly maintenance events	779	779	770			
PARKING PAYMENT DEVICES						
Pay Stations –% of on-street paid parking areas with occupancies within the range of 1-2 available spaces per block face	75%	27%	75%			1

Chart II: 2015-2064 (50-Year) Operational Cost Forecast for SDOT (2015 Dollars)



2015 - 2064 (50-Year) Unconstrained Cost Forecast for Bridges & Structures (2015 Dollars)



^{*}Bridge Replacement forecast does not include full rebuild of the Magnolia Bridge, estimated to cost \$350 million in 2015



Asset Class – Bridges and Structures

Section 2

The Bridges and Structures asset class consists of the transportation structures that are associated with the street network and a few one-of-a-kind roadway structures. The Roadway Structures group in the Capital Projects and Roadway Structures (CPRS) Division maintains all roadway structures.

	Replacement	Condition				Data	
Asset	Value	Good	- Fair	Poor	Unk	Confidence	
Air Raid Siren Tower	\$500,000	-	100%	-	-	High	
Areaway Street Walls	\$218,000,000	11%	58%	12%	19%	Low	
Bridges	\$4,112,390,000	31%	52%	17%	-	High	
Bridge Hydrant Vaults	\$650,000	100%	-	-	-	High	
Elevator	\$1,500,000	100%	-	-	-	High	
Retaining Walls	\$903,137,000	42%	36%	19%	3%	Medium	
Tunnels	\$738,000	-	100%	-	-	High	

Total: \$5.237 Billion

Performance Measures	2014 Planned	2014 Results	2015 Planned
Bridge repair requests completed	190	366	253
Inspections performed on NBI (National Bridge Institute) Bridges	95	95	124
Inspections performed on Areaway Street Walls	11	11	13
Inspections performed on Retaining Walls	116	116	116

Retaining Wall Inventory Status

Asset	Inventory Count	Data Confidence	Replacement Value	Useful Life (Years)	System Replacement Value	Anticipated Annual Growth
Earth Retaining	579	Medium	\$300-		\$203,136,770	Unknown
Wall/Bulkhead			\$1,000/SF			
Alaska Way	2	High			\$700,000,000	Unknown
Seawall						
Total	581	Medium		75 (concrete)	**\$903,136,770	
				50 (timber)		

^{**}Reported replacement value for retaining walls decreased significantly from 2010. This is due to accidental double counting of a pier and the Alaska Way Seawall.

Life Cycle Costs, Maintenance Approach and Funding

BTG funded crosswalk maintenance started in 2007. Prior to BTG, the department performed maintenance in response to a customer request, or maintenance crew observation. Using BTG funding, SDOT developed a maintenance program for remarking crosswalks on a regular maintenance cycle. The 2014 BTG budget remarked 512 crosswalks. The Safe Routes to Schools (STRS) program, capital projects, and private projects remark crosswalks annually as well. Current funding allows for remarking of every crosswalk within a 10year period. We estimate marked crosswalk useful life from assets affected by heavy pedestrian and vehicle traffic. Crosswalks wear in varying ways, so SDOT maintains some crosswalks more frequently than others.

Funding requirements for maintenance of the concrete platform for raised crosswalks are included in a general maintenance budget and are not separable at the asset level.







Program Long-Range Plan

- Publish system-wide asset mapping for public use
- Publish Streetcar Asset Management Plan, Support State AMPs for Bridges / Pavement
- Improve asset onboarding practices and data collection
- Develop comprehensive performance management and corporate analytics support
- Implement comparative risk models and risk management
- In 2018, publish the next iteration of the S&C Report, as SDOT's overall Asset Management Plan

Questions?

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www.seattle.gov/transportation









