

15-Year Maintenance Preservation Plan- Bridge of the Gods and Approaches

Adopted by the Port of Cascade Locks Commission on January 18th, 2018

Port of Cascade Locks

1/19/2018

Legend	Tier 1 Expenditure	Port Funds
	Tier 2 Expenditure	Possible OR, WA, Fed. Funds

GROUP	NO.	Priority (L/M/H)	TYPE	PROJECT NAME	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026
OREGON ROADWAY												
A	1	M	Enhance	Wa Na Pa & Toll Booth Road Intersection Improvements		\$ 1,800,000	\$ 909,000					
TOLL FACILITIES												
B	2	H	Enhance	Toll Automation Design (Interim)	\$ 150,000							
	3	L	Enhance	Toll Automation Design (Ultimate)	\$ 650,000							
	4	H	Enhance	Existing Toll Facility Upgrades	\$ 700,000							
	5	L	Enhance	Toll Automation & Infrastructure Improvements				\$ 4,250,000	\$ 1,086,000			
	6	M	Maint.	Tolling System Upgrades								
	7	M	Maint.	Tolling System Maintenance	\$ 25,000	\$ 25,875	\$ 26,781	\$ 27,718	\$ 50,000	\$ 51,750	\$ 53,561	\$ 55,436
BRIDGE OF THE GODS & APPROACH STRUCTURES												
C	8	H	Maint.	Engineering Services (Basic Annual Contract)	\$ 100,000	\$ 103,500	\$ 107,123	\$ 110,872	\$ 114,752	\$ 118,769	\$ 122,926	\$ 127,228
	9	H	Maint.	WA Approach - Bridge Deck Overlay & Joint Rehab		\$ 282,000						
	10	M	Maint.	OR Approach - Bridge Deck Overlay & Joint Rehab			\$ 165,000					
	11	H	Maint.	Cantilever Truss Painting Projects	\$ 867,000	\$ 2,023,000	\$ 945,000	\$ 2,205,000	\$ 867,000	\$ 2,023,000	\$ 945,000	\$ 2,205,000
	12	H	Maint.	WA Approach - Truss Painting								
	13	H	Maint.	OR Approach - Girder Painting								
	14	H	Maint.	Deck Welding Repairs	\$ 50,000	\$ 51,750	\$ 53,561	\$ 55,436	\$ 57,376	\$ 59,384	\$ 61,463	\$ 63,614
	15	L	Maint.	Bridge Cleaning	\$ 7,000		\$ 7,490		\$ 8,014		\$ 8,575	
	16	L	Maint.	Electrical & Navigation Light Maintenance					\$ 5,000			
	17	M	Retrofit	Seismic Retrofit Engineering					\$ 968,000			
	18	M	Retrofit	Seismic Retrofit Construction: Phase 1						\$ 5,887,500	\$ 5,887,500	
19	M	Rehab.	Open Grid Deck Replacement									
WASHINGTON ROADWAY												
D	20	L	Rehab.	WA BOG Sign Replacement		\$ 50,000						
	21	M	Maint.	WA Parking Lot Paving and Parking Blocks				\$ 124,000				
	22	L	Enhance	WA Signage Enhancements								
Pedestrian Crossing												
E	23	H	Enhance	BOG Pedestrian Crossing Project Planning Study	\$ 437,000	\$ 386,500	\$ 361,500					
	24	H	Enhance	BOG Pedestrian Crossing Project Design & Construction			\$ 3,300,000	\$ 1,075,000	\$ 13,325,000	\$ 7,300,000		
SUMMARY OF EXPENDITURES					2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026
Unanticipated					\$ 30,000	\$ 31,050	\$ 32,137	\$ 33,262	\$ 34,426	\$ 35,631	\$ 36,878	\$ 38,168
Tier 1 Expenditures					\$ 1,682,000	\$ 513,125	\$ 359,955	\$ 318,026	\$ 235,142	\$ 229,903	\$ 246,525	\$ 246,278
Total for Tier 1 & Pedestrian Crossing Expenditures					\$ 1,712,000	\$ 544,175	\$ 392,092	\$ 351,288	\$ 269,568	\$ 265,534	\$ 283,403	\$ 284,446
Tier 2 Expenditures					\$ 1,304,000	\$ 4,209,500	\$ 5,515,500	\$ 7,530,000	\$ 16,246,000	\$ 15,210,500	\$ 6,832,500	\$ 2,205,000
Total for Tier 1 & Tier 2 Expenditures					\$ 3,016,000	\$ 4,753,675	\$ 5,907,592	\$ 7,881,288	\$ 16,515,568	\$ 15,476,034	\$ 7,115,903	\$ 2,489,446

Table Notes:

* All costs presented in this estimate are for planning purposes only. Actual costs will vary depending on the actual scope, market conditions, and the time implementation. Estimates include construction, contingency, and professional services as warranted.

** The Port of Cascade Locks reserves the right to modify and make alterations to the 15-Year Plan as needed.

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Legend	Tier 1 Expenditure	Port Funds
	Tier 2 Expenditure	Possible OR, WA, Fed. Funds

15-YR												
GROUP	NO.	Priority (L/M/H)	TYPE	PROJECT NAME	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	2032-2033	Total 15-Year Expenditure*
OREGON ROADWAY												
A	1	M	Enhance	Wa Na Pa & Toll Booth Road Intersection Improvements								\$ 2,709,000
Subtotal												\$ 2,709,000
TOLL FACILITIES												
B	2	H	Enhance	Toll Automation Design (Interim)								\$ 150,000
	3	L	Enhance	Toll Automation Design (Ultimate)								\$ 650,000
	4	H	Enhance	Existing Toll Facility Upgrades								\$ 700,000
	5	L	Enhance	Toll Automation & Infrastructure Improvements								\$ 5,336,000
	6	M	Maint.	Tolling System Upgrades		\$ 100,000					\$ 117,500	\$ 217,500
	7	M	Maint.	Tolling System Maintenance	\$ 57,376	\$ 59,384	\$ 61,463	\$ 63,614	\$ 65,840	\$ 68,145	\$ 70,530	\$ 70,530
Subtotal												\$ 7,815,973
BRIDGE OF THE GODS & APPROACH STRUCTURES												
C	8	H	Maint.	Engineering Services (Basic Annual Contract)	\$ 131,681	\$ 136,290	\$ 141,060	\$ 145,997	\$ 151,107	\$ 156,396	\$ 161,869	\$ 1,929,568
	9	H	Maint.	WA Approach - Bridge Deck Overlay & Joint Rehab								\$ 282,000
	10	M	Maint.	OR Approach - Bridge Deck Overlay & Joint Rehab								\$ 165,000
	11	H	Maint.	Cantilever Truss Painting Projects	\$ 717,900	\$ 1,675,100						\$ 14,473,000
	12	H	Maint.	WA Approach - Truss Painting			\$ 1,575,900	\$ 3,677,100				\$ 5,253,000
	13	H	Maint.	OR Approach - Girder Painting					\$ 206,100	\$ 480,900		\$ 687,000
	14	H	Maint.	Deck Welding Repairs	\$ 65,840	\$ 68,145						\$ 586,570
	15	L	Maint.	Bridge Cleaning	\$ 9,176		\$ 9,818		\$ 10,505		\$ 11,240	\$ 71,819
	16	L	Maint.	Electrical & Navigation Light Maintenance		\$ 5,875					\$ 6,903	\$ 17,778
	17	M	Retrofit	Seismic Retrofit Engineering								\$ 968,000
	18	M	Retrofit	Seismic Retrofit Construction: Phase 1								\$ 11,775,000
19	M	Rehab.	Open Grid Deck Replacement			\$ 2,050,000	\$ 2,050,000				\$ 4,100,000	
Subtotal												\$ 40,308,734
WASHINGTON ROADWAY												
D	20	L	Rehab.	WA BOG Sign Replacement								\$ 50,000
	21	M	Maint.	WA Parking Lot Paving and Parking Blocks								\$ 124,000
	22	L	Enhance	WA Signage Enhancements		\$ 12,150						\$ 12,150
Subtotal												\$ 186,150
Pedestrian Crossing												
E	23	H	Enhance	BOG Pedestrian Crossing Project Planning Study								\$ 1,185,000
	24	H	Enhance	BOG Pedestrian Crossing Project Design & Construction								\$ 25,000,000
Subtotal												\$ 26,185,000
SUMMARY OF EXPENDITURES					2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	2032-2033	Total 15-Year Expenditure*
Unanticipated					\$ 39,504	\$ 40,887	\$ 42,318	\$ 43,799	\$ 45,332	\$ 46,919	\$ 48,561	\$ 578,870
Tier 1 Expenditures					\$ 264,073	\$ 381,844	\$ 2,262,341	\$ 2,259,611	\$ 227,452	\$ 224,541	\$ 368,042	\$ 9,818,858
Total for Tier 1 & Pedestrian Crossing Expenditures					\$ 303,577	\$ 422,731	\$ 2,304,659	\$ 2,303,410	\$ 272,784	\$ 271,460	\$ 416,603	\$ 10,397,728
Tier 2 Expenditures					\$ 717,900	\$ 1,675,100	\$ 1,575,900	\$ 3,677,100	\$ 206,100	\$ 480,900	\$ -	\$ 67,386,000
Total for Tier 1 & Tier 2 Expenditures					\$ 1,021,477	\$ 2,097,831	\$ 3,880,559	\$ 5,980,510	\$ 478,884	\$ 752,360	\$ 416,603	\$ 77,783,728

Table Notes:

* All costs presented in this estimate are for planning purposes only. Actual costs will vary depending on the actual scope, market conditions, and the time implementation. Estimates include construction, contingency, and professional services as warranted.

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