Capital Maintenance Plan
Draft 2/08/2022

2/14/2022

HOOD RIVER - WHITE SALMON BRIDGE

SHORT TERM: FY 21/22 (2021–2022), FY 22/23 (2022–2023), FY 23/24 (2023–2024), FY 24/25 (2024–2025)
LONG TERM: FY 25 – FY 51

Capital Improvements Plan

Bridge Component Group	Project (Scope of Work)	Expected Duration	Estimated Cost (Current Dollars)
Approach Structures	Bridge Deck Overlays	8 mos.	$ 600,000
	OR Approach Spans Replacement	24 mos.	$ 847,000
	WA Approach Spans Replacement	36 mos.	$ 4,117,000
Foundations (Subsurface)	Scour Evaluation	2 mos.	$ 15,000
	Pier Concrete Repairs and/or Rip-Rap Blanket	24 mos.	$ 1,500,000
Substructure (Piers)	Pier Cap Maintenance	1 mo.	$ 60,000
Superstructure (Steel Trusses)	Misc.Steel Repairs (annual)	9 mos.	$ 30,000
	Lift Span - Phase 1 Seismic	24 mos.	$ 1,752,000
	OR Deck Truss Spans - Phase 1 Seismic	24 mos.	$ 6,000,000
	WA Deck Truss Spans - Phase 1 Seismic	24 mos.	$ 6,000,000
Paint Systems	Maintenance Painting	12 mos.	$ 500,000
	Bridge Painting - Lift Span	18 mos.	$ 4,329,000
	Deck Truss Repainting (2 projects)	48 mos.	$ 29,600,000
Deck Systems & Railing	Lift Span Guardrail Replacement	9 mos.	$ 200,000
	Bridge Rail Replacement	18 mos.	$ 2,730,000
	Open Grid Steel Decking Replacement	24 mos.	$ 10,523,000
Lift Span M&E	Rehab Live Load Supports	3 mos.	$ 100,000
	Replace Rack Pinion Shafts, Couplings, Keys	3 mos.	$ 250,000
	Replace Wire Ropes - Engineering	4 mos.	$ 60,000
	Replace Wire Ropes - Construction	2 mos.	$ 1,600,000
Misc. Other	Load Posting Testing & Analysis	5 mos.	$ 300,000
	Load Posting Rehabilitation	5 mos.	$ 250,000
	Embankment Sloughing at S. Abutment	3 mos.	$ 40,000
Tolling Systems	Weigh-In-Motion System	6 mos.	$ 415,000

TODAY — BRIDGE NTP — Rehab Review & Financing

Inspection & Maintenance Plan

Bridge Component Group	Project (Scope of Work)	Expected Duration	Estimated Cost (Current Dollars)
Approach Structures	Deck and Joint Maintenance	bi-annual	$ 20,000
Foundations (Subsurface)	ODOT Underwater Inspections (2-yr cycle)	3 mos.	$ -
	Pier Underwater Inspection and Analysis (5-yr cycle)	3 mos.	$ 50,000
	Channel Scan at Pier Foundations (3-yr check)	2 mos.	$ 40,000
Substructure (Piers)	Clean and Reset Bearings (4-yr cycle)	2 mos.	$ 20,000
Superstructure (Steel Trusses)	ODOT Routine & Fracture Critical Insp (2-yr cycle)	2 mos.	$ -
	Clean Low Chord Debris (4-yr cycle)	1 mo.	$ 10,000
Paint Systems			
Deck Systems & Railing	Grid Deck Crack Welding	Semi-annual	$ 60,000
	Replace Bolts & Guard Rail Segments	Annually	$ 60,000
	Paint Centerline		$ 10,000
Lift Span M&E	M&E Maintenance Inspections (5-yr cycle)	1 mos.	$ 100,000
	Lubricate Wire Ropes	annually	$ 10,000
Misc. Other			
Tolling Systems	System Maintenance	Annually	$ 85,000
	ETC Hardware Warranty	Annually	$ 42,000

Annual totals

FY 21/22	FY 22/23	FY 23/24	FY 24/25
$ 1,417,000	$ 2,462,000	$ 857,000	$ 367,000

25	26	27	28	29	30	31	32	33	34	35	36	37	38
$ 357,000	$ 567,000	$ 1,117,000	$ 8,608,500	$ 7,152,900	$ 670,500	$ 11,824,500	$ 11,932,100	$ 1,472,100	$ 6,956,400	$ 4,750,000	$ 7,807,000	$ 8,623,000	$ 1,183,000

39	40	41	42	43	44	45	46	47	48	49	50	51
$ 307,000	$ 307,000	$ 397,000	$ 357,000	$ 307,000	$ 307,000	$ 297,000	$ 407,000	$ 357,000	$ 307,000	$ 5,558,500	$ 5,568,500	$ 387,000

WORK IMPORTANCE KEY:

Capital Impr	Insp & Maint	
Essential	*Essential*	High probability of occurrence | required to continue safe and continuous bridge operation.
Priority	*Priority*	Medium to high probability | needed to prevent bridge service disruption.
Recommend	*Recommend*	Low to medium probability | needed to maintain operating efficiency and ensure safety.

Cumulative Totals

Through 26	Through 31	Through 36	Through 41	Through 46	Through 51
$ 6,027,000	$ 35,400,400	$ 68,318,000	$ 79,135,000	$ 80,810,000	$ 92,988,000