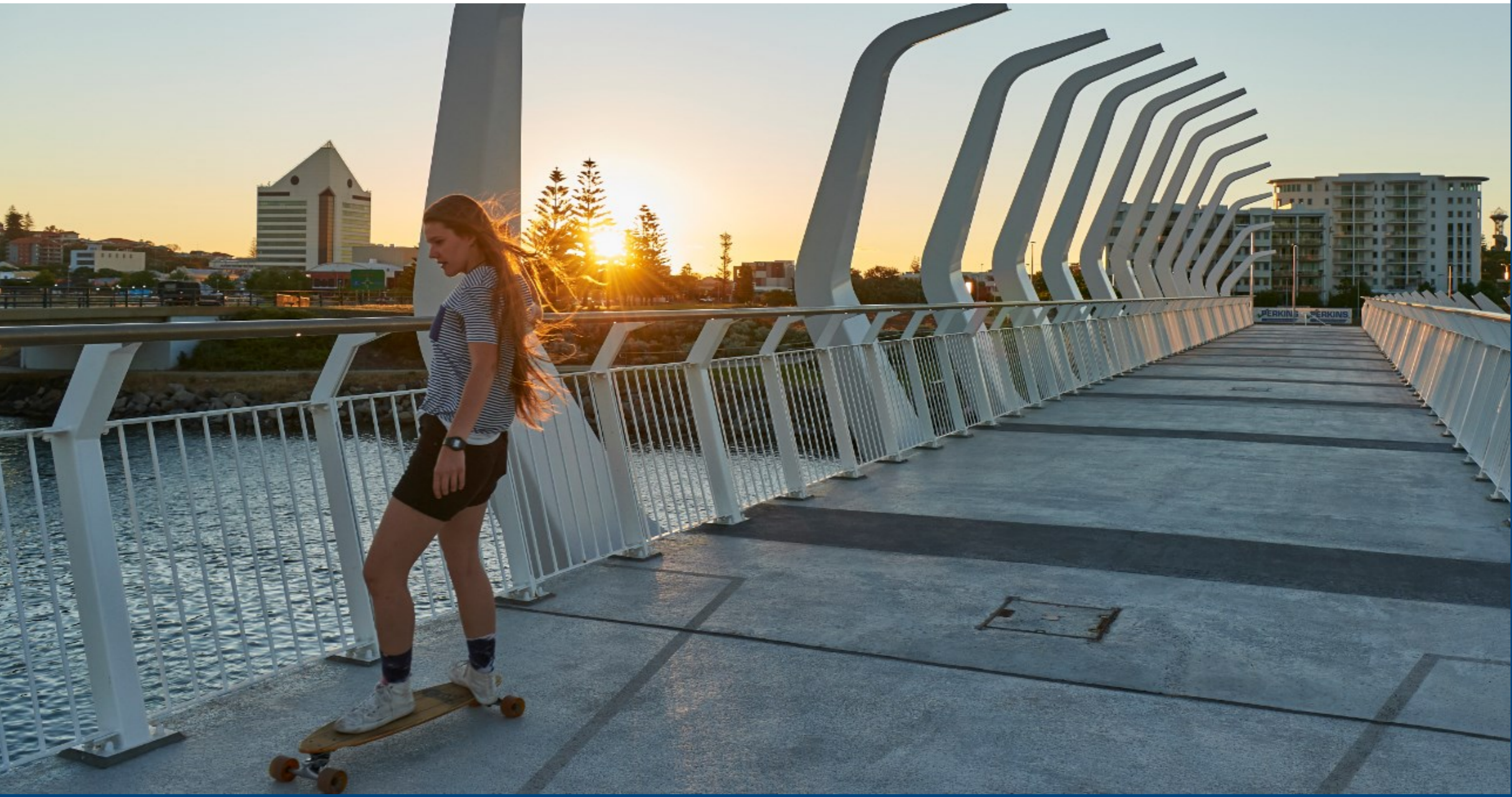


Bridge Asset Management Plan 2019



Snapshot

- Total of 15 individual bridges which comprises of abutments, beams, decks and handrails
- Current replacement value of \$8,981,319
- Externally valued in June 2018
- Externally condition rated in May 2015
- Minimal change in condition rating from 2015 to 2018
- High level of confident regarding asset replacement cost and condition
- Bridge infrastructure renewal financial figures are based on 'remaining useful life'
- Remaining useful life uses the estimated life expectancy of the asset before it will need to be replaced. Factors determining remaining useful life include (but not limited to) condition, environment, maintenance and levels of service
- Within the 15 year renewal period 1 beam, 6 decks and 12 handrails have been identified for replacement with a combined replacement cost of \$289,389
- \$550,200 budgeted for operating and maintenance over the 15 year period
- Financial data and values obtained from AssetFinda reporting system as at January 2019. All figures exclude GST.

Renewal Period

• Backlog	\$ 0.00	(0.00%)
• 15 year renewal	\$ 289,389	(3.22%)
• Beyond 2035	\$8,691,930	(96.78%)
Total Current Replacement Cost	\$8,981,319	

Renewal Budget

• Total Required Renewals (15 years)	\$289,389
• Total IFP Renewal Budget (15 years)	\$335,000
• Total Renewal Surplus (15 years)	\$ 45,611

Condition

As per condition assessment June 2015 and based on current replacement cost

• Excellent	85.48%
• Good	2.38%
• Average	11.68%
• Poor	0.46%

Components of a Bridge

1. **Abutment:** the elements at the ends of the bridge providing support and acting as a retaining wall to prevent the earth under the approach of the bridge from moving or subsiding
2. **Beams:** the structural component on a bridge that supports loads applied to the axis. A beam typically responds to forces (traffic weight) by bending and flexing
3. **Deck:** the functional area that allows vehicles and pedestrians to cross
4. **Handrails:** a guard rail system used predominately on the side/s of a bridge to prevent vehicles or pedestrians from falling off the edge.

