

Manual

Structures Inspection Manual

**Part 3 - Appendix H: Example of Additional
Requirements for Special and Unique Structures**

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1 Routine maintenance

Activity	Frequency	Comment	Cost	Responsible Person
Clean expansion joints	6 monthly			By who
Ensure drainage system is not allowing water to pond on headstocks	6 monthly			
Clean bird droppings from bridge	6 monthly			
Clean scuppers	Each November and when blocked	Program before wet season		
Washing of areas where debris accumulates on steelwork to stop corrosion developing	6 monthly			
Spot painting	Annually			
Post flood inspection	As required			

2 Routine maintenance of equipment, permanent gantry and instrumentation

Activity	Frequency	Comment	Cost	Responsible Person
Service equipment Service gantry	In accordance with manufacturers maintenance schedule.			By who
Tighten bolts		Example, routine maintenance.		
Ensure instrumentation, monitoring and Structural Health Monitoring is being undertaken		Sampling frequency specified in brief. Alert levels specified, as required. Monitoring required to determine if system stops working.		
Progressive and regular assessment of instrumentation, monitoring and Structural Health Monitoring	At least monthly update.	Data to be retained by District and also stored in Bridge Information System.		

3 Specialist maintenance

Permanent gantries shall be in accordance with the manufacturer's recommendations and any Workplace Health and Safety requirements for inspection.

Any plant or equipment shall be inspected and maintained in accordance with the manufacturer's recommendations.

4 Maintenance and repairs identified in inspections

Level 1, 2 and 3 inspections identify work items that require rehabilitation. These are documented in inspection and maintenance reports. These items need to be programmed and budgeted for future activities. Structures Management Plans shall be prepared.

5 Scheduled bridge inspections

The inspection of the bridge shall be in accordance with the Transport and Main Roads *Structures Inspection Manual*.

Unique, special or very large infrastructure may have Level 2 inspection unique to that bridge, in addition to the requirements of *Structures Inspection Manual*.

Condition assessment data shall be recorded in the department's Bridge Information System.

Activity	Date	Funding
Level 1 inspection	Every <month> (12 month intervals)	Element 19 or special funding
Level 2 inspection 9 including unique requirements for some bridges)	<date> then in accordance with <i>Structures Inspection Manual</i>	Element 19 or special funding
Underwater inspection	Nominate frequency	Element 19 or special funding

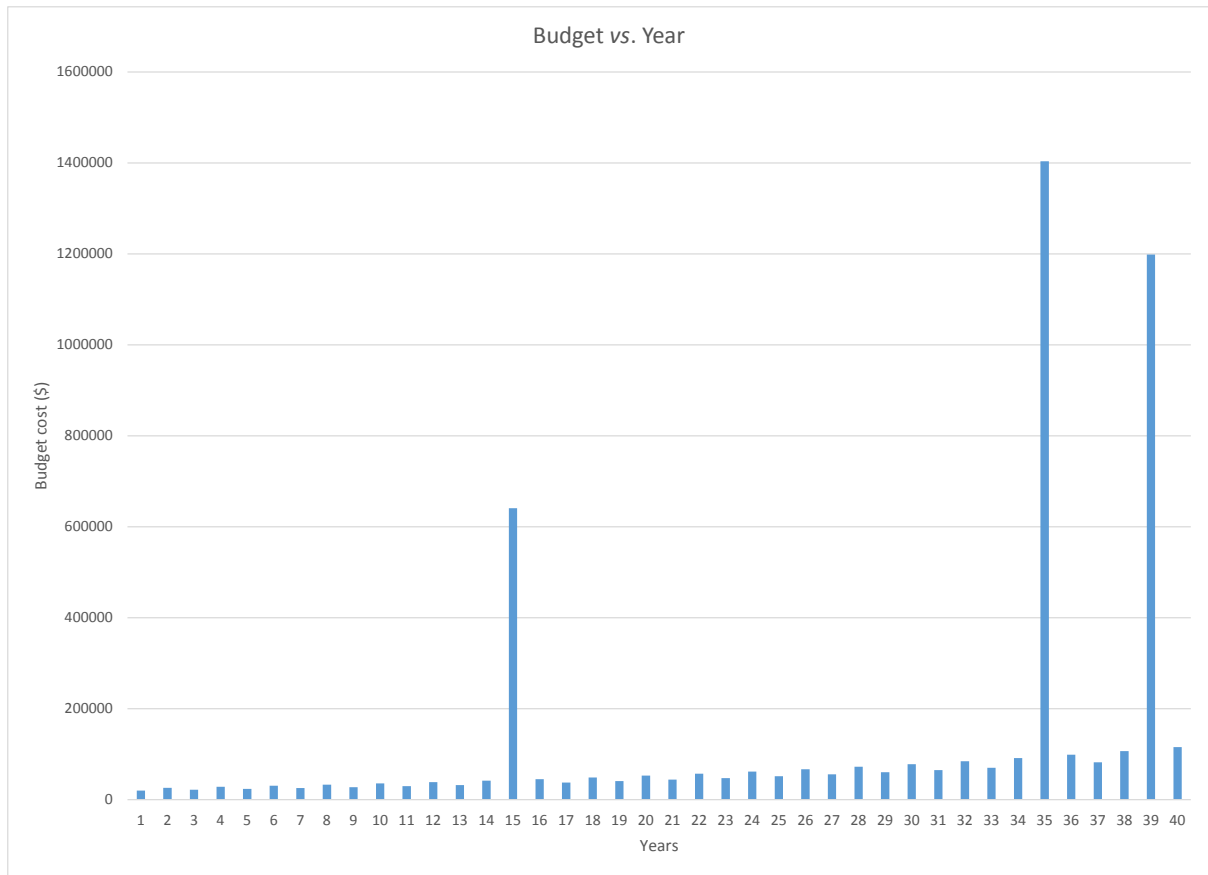
6 Scheduled bridge maintenance

Activity	Date	Comment	Estimated Cost	Responsible Person
Bearing replacement		40 year design life of elastomeric and pot bearing		By who
Structural repairs program				
Develop repainting program for next 20 years (min)		20 years ensures that at least one repaint is required		
Expansion joint rubber replacement		Design life is 20 years		
Replacement of expansion joint		Design life is 40 years		
Develop Structural Management Plan		As required by <i>Structures Inspection Manual</i>		
Instrumentation, monitoring and Structural Health Monitoring program to be developed.				
Maintenance of gantry, equipment				

7 Funding

The projected budget may show high expenditure years associated with repainting or bearing replacement. An allowance should also be made for inflation.

Figure H1 – Example forward funding requirements



8 Any other special conditions

In this section, document any proposed changes that may need to be taken into account (e.g. addition of footpath, proposed widening, asphalt surfacing).

