Bridge Inspection Summary - 2025

City of Riverton - Department of Public Works - Inspection window: 2025-09-08 to 2025-09-12

Scope

This simulated report covers routine inspections for three municipal bridges. It includes condition ratings, measured defects, and a schematic showing defect locations as vector points.

Assets included

Asset ID	Bridge name	Crossing	Type	Year built	Span (m)	ADT
RVN-BR-011	Maple St Overpass	I-87	Steel girder	1998	62	18,400
RVN-BR-024	Riverwalk Pedestrian	Riverton Creek	Truss	2007	41	2,100
RVN-BR-031	East Canal Bridge	Canal Rd	Concrete slab	1984	28	9,700

Overall findings

- No immediate closure conditions observed; two items require repairs within 90 days.
- Drainage improvements recommended at Maple St Overpass to reduce deck joint leakage.
- Protective coating touch-up needed on Riverwalk Pedestrian truss members (minor surface corrosion).

Condition ratings and defects

Ratings follow a fictional 0-9 scale (9 = excellent). Defects are measured field observations.

Asset ID	Deck	Superstructure	Substructure	Scour	Overall	Priority
RVN-BR-011	6	5	6	7	6	Medium
RVN-BR-024	7	6	7	-	7	Low
RVN-BR-031	5	-	6	6	6	Medium

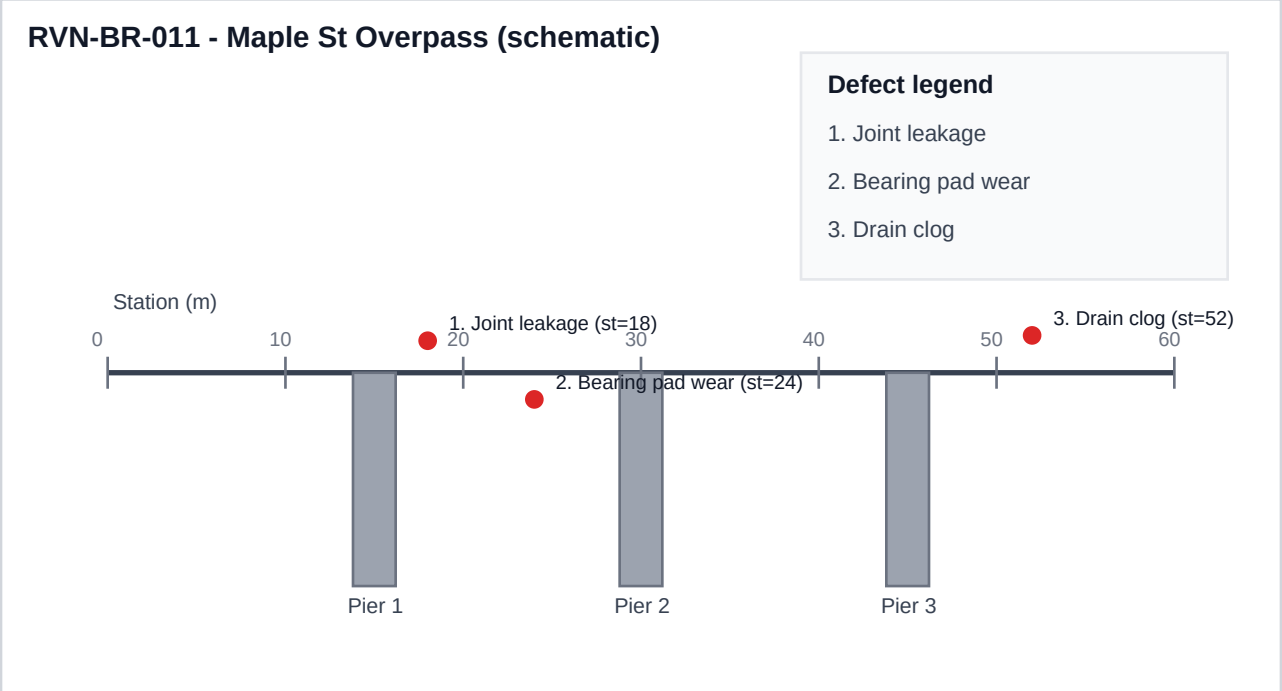
Asset ID	Defect	Location	Measurement	Recommended action
RVN-BR-011	Deck joint leakage	Sta 0+18 (north)	Active seepage; efflorescence	Seal joint; clean drains
RVN-BR-011	Bearing pad wear	Pier 2, Girder G3	6 mm lateral shift	Replace pad during night closure
RVN-BR-024	Paint loss / corrosion	Panel point U2	Area ~0.12 m2	Spot blast + recoat
RVN-BR-031	Crack (transverse)	Midspan soffit	0.35 mm width	Epoxy inject + monitor

Work order estimate (simulated)

Work item	Crew hours	Materials ($)	Traffic control	Total ($)
Seal deck joints (BR-011)	24	1,600	Night lane closure	7,800
Replace bearing pad (BR-011)	18	2,450	Night lane closure	9,200
Spot recoat (BR-024)	12	980	None	3,400
Epoxy inject crack (BR-031)	10	720	Shoulder closure	2,950

Vector schematic: defect locations

Schematic view (not to scale). Defects are plotted as vector points with station coordinates.



Defect coordinate table

ID	Asset	Station (m)	Vertical offset (mm)	Description
1	RVN-BR-011	18	120	Joint leakage
2	RVN-BR-011	24	-100	Bearing pad wear
3	RVN-BR-011	52	140	Drain clog

Offsets are relative to the deck centerline in the schematic (positive = above).