



GRAND VALLEY

Town of Grand Valley Capital Budget 2025

Bridges and Culverts

Total Capital Budget Levy Request = \$308,000

2024 Projects

- Bridge 10 Replacement was completed
- Routine Costs

2025 Proposed Projects

- Bridge 5 Rehabilitation - \$35,000
- 2025 OSIM Report - \$8000
- Bridge 10 Replacement Loan Repayment - \$300,000
 - o Once the loan through Infrastructure Ontario is approved, the first payment will be due in 2025. We estimate that this repayment will cost approximately \$300,000

Funding Sources

- Loan repayment and OSIM costs funded by levy
- Bridge 5 Rehabilitation funded by Canada Community-Building Fund (former gas tax fund)

1.5 Structure No. 05

<u>Structure Name:</u>	Bridge No. 5 (Hall Bridge)	2023 BCI =72.45
<u>Road Name:</u>	Sideroad 27-28	
<u>Location:</u>	Concession Road 8-9 (between east and west intersection)	
<u>Structure Type:</u>	Precast Concrete Box Girder	
<u>Number of Spans:</u>	1	<u>Span Lengths:</u> 26.4 m (skew span 30.5 m) m
<u>Overall Structure Width:</u>	9.3 m	<u>Roadway Width:</u> 7.5 m
<u>Year of Construction:</u>	1979	<u>Current Load Limit:</u>



	Rehabilitation	Replacement
Estimated Capital Works Timelines (Years):	12.5	22.5

Recommendation:	No Capital Works estimated to be required within 10 years. Future structure rehabilitation should be considered.
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Justification:

Structure 05 is generally in good condition but is demonstrating signs of failing expansion joints and moisture penetration through the box girders.

Maintenance Need	Element and Comments	Estimated Cost
Bridge Cleaning	Clean Deck Top and Expansion Joints	\$1,500.00
Deck Joint Repair	Replace sealant in joints	\$5,000.00
Hazard Signs	Install hazard warning signs at structure	\$1,000.00
Maintenance Needs Total		\$7,500.00

Additional Investigations	Estimated Cost
	\$0.00

Current Roadside Protection Needs	Estimated Cost
Investigate Need for Replacing with Longer Guide Rail	\$500.00

Rehabilitation/Repair Required	Priority	Estimated Cost
Type A concrete repairs to deck top, concrete end dams, curbs,	N/A	\$11,000.00
Type B concrete repairs to Girders, soffit,	N/A	\$2,500.00
Type C concrete repairs to abutment walls, wingwalls,	N/A	\$10,000.00
Replace barrier system	N/A	\$10,000.00
Waterproof and pave	N/A	\$50,000.00
Replace expansion joint	N/A	\$80,000.00
Add slope stabilization	N/A	\$15,000.00
Extend deck drains	N/A	\$5,000.00
General Items - Insurance, Mobilization, Access etc.	N/A	\$125,000.00
Rehabilitation Cost Subtotal		\$308,500.00

Estimate Value of Replacement Structure	\$2,600,000.00
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Associated Work	Rehabilitation	Replacement
Approaches -	\$0.00	\$0.00
Detours -	\$0.00	\$0.00
Traffic Control -	\$15,000.00	\$15,000.00
Utilities -	\$0.00	\$0.00
Total Associated Work Cost	\$15,000.00	\$15,000.00

Total Capital Works Costs		
Cost	Rehabilitation	Replacement
Rehab / Replacement Works:	\$323,500.00	\$2,615,000.00
Roadside Protection:	\$500.00	\$95,000.00
Staging Costs:	N/A	N/A
Construction Contingencies:	\$33,000.00	\$181,000.00
Environmental Assessment:	\$2,500.00	\$10,000.00
Engineering Design:	\$33,000.00	\$181,000.00
Geotechnical Investigation:	N/A	\$20,000.00
Contract Administration:	\$15,000.00	\$131,000.00
Total Capital Work Cost	\$407,500.00	\$3,233,000.00