Attachment 2

Key Trade-Offs and Benefits

The Critical Rehabilitation Scenarios (Scenarios A) were considered the base case outlining the absolute "do minimum" against which the other scenarios were evaluated.

Scenario		Trade-Offs	Benefits
B1	Rehabilitation	 High lifecycle cost 1-2 year full or partial closure of the High Level Bridge to complete the rehabilitation and upgrades every 25 years No provision for mass transit No upgrades to substandard active mode connections 	 Lower short-term capital cost Bridge will be future proofed for the next 25 years Minimal impact to heritage value and no amendments to the Designation Bylaw anticipated
B2	Rehabilitation + Strategic Considerations	 High lifecycle cost 1-2 year full or partial closure of the High Level Bridge to complete the rehabilitation and upgrades every 25 years No provision for mass transit Minor impact to heritage value; may require amendments to the Designation Bylaw 	 Expanded Shared Use Paths will improve active mode connections between Downtown and Whyte Avenue Moderate capital cost Bridge will be future proofed for the next 25 years Decision on mass transit will align with next rehabilitation anticipated in 25 years
В3	Rehabilitation + Mass Transit + Shared Use Path Upgrades	 Significant construction risks Significant construction impacts Increased lifecycle risks for mass transit Moderate impact to heritage value; may require amendments to the Designation Bylaw 	 Expanded Shared Use Paths will improve active mode connections between Downtown and Whyte Avenue Bridge will be future proofed for the next 25 years
C1	New Bridge + High Level Bridge for	Impacts to North Saskatchewan River Valley natural areas - the proposed	Enhanced experience for pedestrians and cyclists on High Level Bridge with

Attachment 2

	Active Modes	 corridor for the new bridge impacts the forested area west of High Level Bridge Impacts to North Saskatchewan River - additional instream piers Alters the character of the valley and may obscure significant view planes to the High Level Bridge from the west High capital and lifecycle costs Based on the Mass Transit Study, a new dedicated mass transit connection is not a priority for the first population horizon of the City Plan (1.25 million people) 	removal of vehicle traffic New bridge will be straight and the road deck tall enough for easy access by emergency service vehicles High Level Bridge will be future proofed for the next 25 years Minimal impact to heritage value of the High Level Bridge; no amendments to the Designation Bylaw anticipated
C2	New Bridge (Decommission High Level Bridge)	 Decommissioning of High Level Bridge Loss of heritage value; would require rescinding the Designation Bylaw. Potential of reputational harm to the City Impacts to Kinsmen Park from the new bridge (disruption to green space). High capital cost Based on the mass transit study a new dedicated mass transit connection is not a priority for the first population horizon of the City Plan (1.25 million people). 	 New bridge alignment will be straight and the road deck tall enough for easy access by buses, emergency service vehicles and transport trucks Improved active mode connections and access to the river valley Lower lifecycle costs Enhanced experience for pedestrians and cyclists on a new bridge