Attachment 2

Profile Page 1

CAPITAL PROFILE REPORT DRAFT

ALLEY RENEWAL (MEDIUM-HIGH)		UNFUNDED
CM-99-4801	PROFILE STAGE:	Entry - CIA CapBud Analy
Integrated Infrastructure Services	PROFILE TYPE:	Composite
Transportation Infrastructure	PROFILE MANAGER:	Jason Meliefste
	LEAD BRANCH MANAGER:	Craig Walbaum
Transportation Infrastructure	ESTIMATED START:	
2019-2022	ESTIMATED COMPLETION:	
	CM-99-4801 Integrated Infrastructure Services Transportation Infrastructure Transportation Infrastructure	CM-99-4801PROFILE STAGE:Integrated Infrastructure ServicesPROFILE TYPE:Transportation InfrastructurePROFILE MANAGER:LEAD BRANCH MANAGER:LEAD BRANCH MANAGER:Transportation InfrastructureESTIMATED START:

Service Categ	ory: Roads	Major Initiative:	
GROWTH	RENEWAL	PREVIOUSLY APPROVED:	-
5	95	BUDGET REQUEST:	203,137
		TOTAL PROFILE BUDGET:	203,137

PROFILE DESCRIPTION

The Alley Renewal Program outlines a cost-effective, long-term strategy approach to address the renewal and rebuilding of alleys in existing neighbourhoods, and reach a medium-high level of service (Average Condition Index - Grade C+, 15% in F/D Condition, 5% in F Condition) within 25 years. The Alley Renewal Program provides for the renewal of roadway base and paving of existing alleys. This program includes the following major categories: Alley Reconstruction, Alley Upgrade, and Alley Overlay.

PROFILE BACKGROUND

Currently 69% (764 km) of paved alleys require renewal, with an additional 68 km of gravel alleys. Issues such as potholes, water ponding and base failures are common and present significant safety, access reliability and maintenance challenges. Alleys lack a funded renewal program therefore alley renewal only takes place either as a result of underground utility renewal projects or local improvements. These activities are not sufficient to effectively meet the current alley renewal and service level needs.

A funded alley renewal strategy could effectively combine reconstruction and rehabilitation that allows the overall alley network to improve to "Fair-Good (Condition C+) or better" condition within 25 years of 2018 (2019 - 2043).

PROFILE JUSTIFICATION

Alley infrastructure should be maintained in accordance to its asset life cycle as outlined in the City's Alley Investment Model, utilizing a balanced approach of capital improvement techniques (reconstruction and overlay) to maximize asset value and asset life.

Anticipated Outcomes: Sufficient funding levels will allow for the overall condition of alleys to become a "grade C+ or better" in 25 years. Project planning should occur two years prior to alley work to allow for coordination with utilities and the use of longer term contracts to achieve greater value for money.

Urgency of Need: Need to create a predictable funding to meet renewal needs of alleys (issues such as potholes, water ponding and base failures are common) that present significant safety, access, and maintenance challenges. Unpredictable funding levels will impede on the ability to mitigate the effects of rising construction prices and availability during stronger economic times.

STRATEGIC ALIGNMENT

The Way We Move: Well Maintained Infrastructure. Sustainability utilizing recycled materials and newer technologies; Access and Mobility / Health and Safety - interconnected system for efficient movement via various modes.

ALTERNATIVES CONSIDERED

Using life cycle cost/benefit analysis demonstrates that the following alternatives are not as effective to fully funded alley renewal (reconstruction, rehab) program:

Do Nothing/Unfunded Alley Renewal Program - Current approach: In the absence of a funded alley renewal program, alley renewal only takes place either as a result of underground utility renewal projects or local improvements.

Band Aid/Triage Renewal: simple renewal is completed on alleys that currently require more extensive renewal (reconstruction) to bridge the time when funding is available for alley reconstruction.

Reconstruction First/Worse Only approach: Using the City's Alley Investment Model and life cycle/cost benefit analysis showed that effectively combining reconstruction, rehabilitation, and preventative maintenance, the program allows more alleys to receive improvements within 25 years (2019 - 2043), whereas a reconstruction-only program would take many more years to complete at a higher cost.

COST BENEFITS

Require \$20.0 million annually to achieve committed services levels.

Tangible benefits: renewal of aging infrastructure in older neighbourhoods, maximizing service life of alley infrastructure, and long-term cost savings through reinvestment strategies, increase in service levels and customer satisfaction.

Intangible benefits: enhancing attractiveness of neighbourhoods, improving livability of residents.

CAPITAL PROFILE REPORT

KEY RISKS & MITIGATING STRATEGY

Utility Conflict/Coordination: provide 2 years of plannng before alley construction begins.

Industry/Internal Capacity: Alley construction ramp up over a 4 year period (2019 - 2022) provide time to resource plan.

RESOURCES

Mix of internal/external paving and engineering services. Internal resources evaluation would include: Current internal capacity, Potential reallocation of design/deliver staff and Operating Services Packages, City Infrastructure Maintenance paving.

CONCLUSIONS AND RECOMMENDATIONS

With alleys being an integral part of the City's transportation network providing access to residents, businesses and industries, an effective alley renewal strategy is needed to ensure the City meets its goals for sustainable and accessible infrastructure.

CAPITAL PROFILE REPORT

Profile Page 3

PROFILE NAME: Alley Renewal (Medium-High)

UNFUNDED

PROFILE NUMBER: CM-99-4801

PROFILE TYPE: Composite

BRANCH:

Transportation Infrastructure

CAPITAL BUDGET AND FUNDING SOURCES (000's)

PPROVED BUDGET		Prior Years	2017	2018	2019	2020	2021	2022	2023	2024	2025	Beyond 2025	Total
	Approved Budget Original Budget Approved	-	-	-	-		-	-	-	-	-	-	-
e e	Current Approved Budget	-	-	-	-	-	-	-	-	-	-	-	-

	BUDGET REQUEST	Budget Request	-	100	400	5,025	12,289	18,380	22,138	22,649	23,186	23,770	75,200	203,137
		Revised Funding Sources (if approved)												
	Dalup	Neighborhood Renewal Reserve	-	100	400	-	-	-	-	-	-	-	-	500
	BL	Other	-	-	-	5,025	12,289	18,380	22,138	22,649	23,186	23,770	75,200	202,637
		Requested Funding Source	-	100	400	5,025	12,289	18,380	22,138	22,649	23,186	23,770	75,200	203,137

REVISED BUDGET (IF APPROVED)	Revised Budget (if Approved)	-	100	400	5,025	12,289	18,380	22,138	22,649	23,186	23,770	75,200	203,137
	Neighborhood Renewal Reserve	-	100	400	-	-	-	-	-	-	-		500
	Other	-	-	-	5,025	12,289	18,380	22,138	22,649	23,186	23,770	75,200	202,637
	Requested Funding Source	-	100	400	5,025	12,289	18,380	22,138	22,649	23,186	23,770	75,200	203,137

CAPITAL BUDGET BY ACTIVITY TYPE (000's)

ED)	Activity Type	Prior Years	2017	2018	2019	2020	2021	2022	2023	2024	2025	Beyond 2025	Total
LEVISED SUDGET (IF PROVEC	Construction	-	-	-	4,773	11,675	17,461	21,031	21,517	22,027	22,582	71,440	192,505
BUC PPR	Design	-	100	400	251	614	919	1,107	1,132	1,159	1,189	3,760	10,632
▲	Total	-	100	400	5,025	12,289	18,380	22,138	22,649	23,186	23,770	75,200	203,137

OPERATING IMPACT OF CAPITAL

Type of Impact:

Branch:	Rev	Exp	Net	FTE												
Total Operating Impact	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-