

Sound Wall Lifecycle Replacements for Critical Locations

Minh Huynh, C.E.T. Roads, Maintenance Transportation Report # TT2020-1397 ISC: Unrestricted



Overview



Benefits

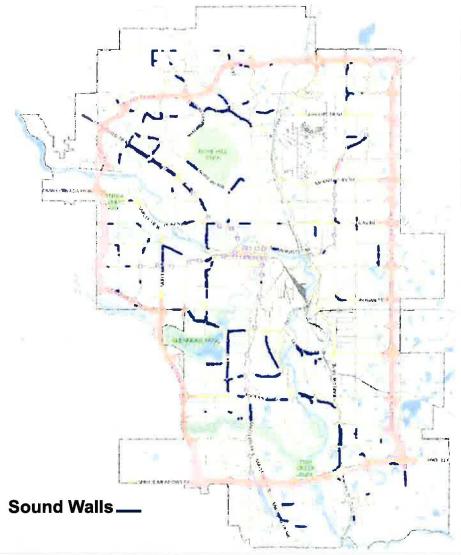
- Reduce road noise
- Improves privacy
- Provides separation



Design & Materials

- Wood
- Concrete panels
- Stucco
- Composite

Calgary Sound Wall Network







Subdivision Developments



Existing Funding Programs

Sound Wall Lifecycle Capital Program

Lifecycle replacement of **existing** sound attenuation walls.

Capital Budget 2019-2022: \$1.98M. **Road Upgrades**

Construction resulting in new or upgraded infrastructure.

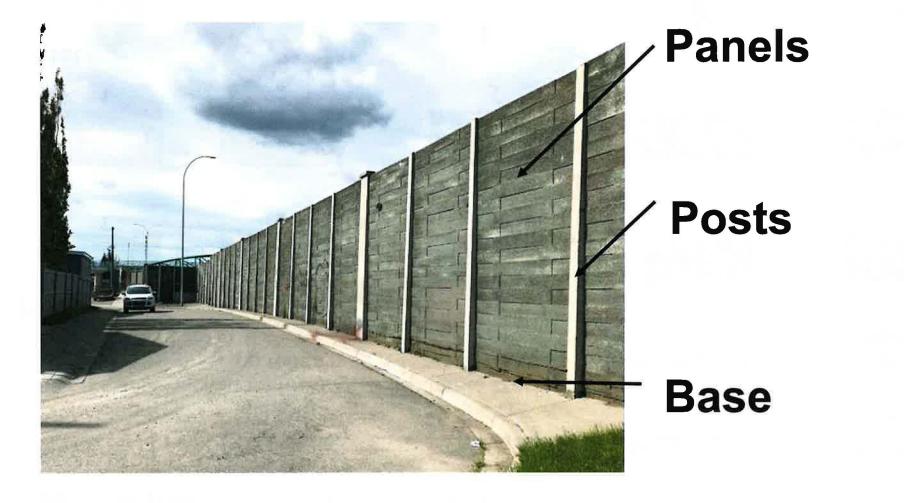
Noise Barrier Retrofit Program

Construction of **new** barriers at warranted locations.

Currently **no funding allocated**. Locations will be reprioritized once funding becomes available.

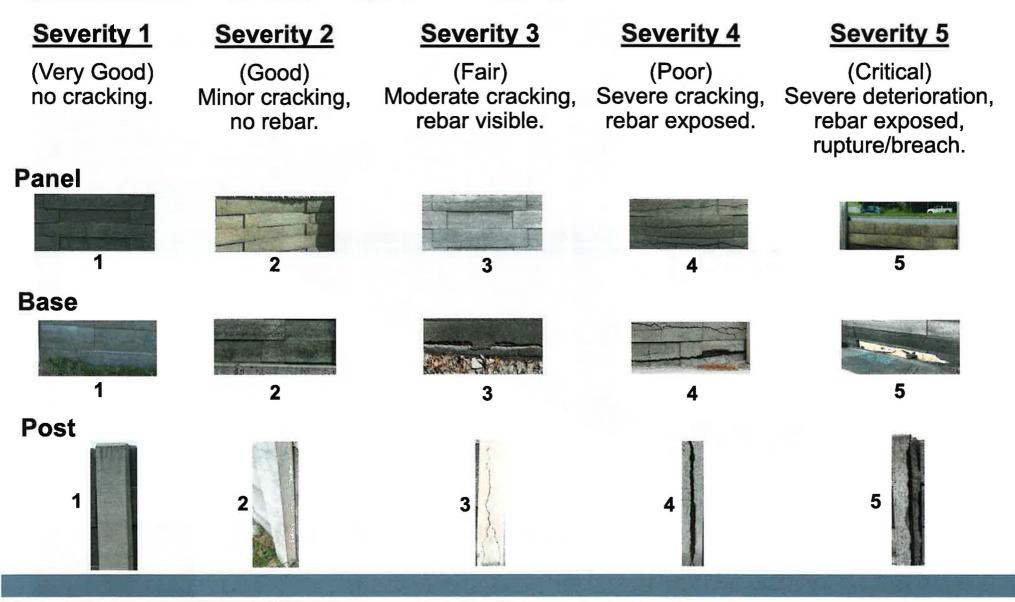


Structural Components



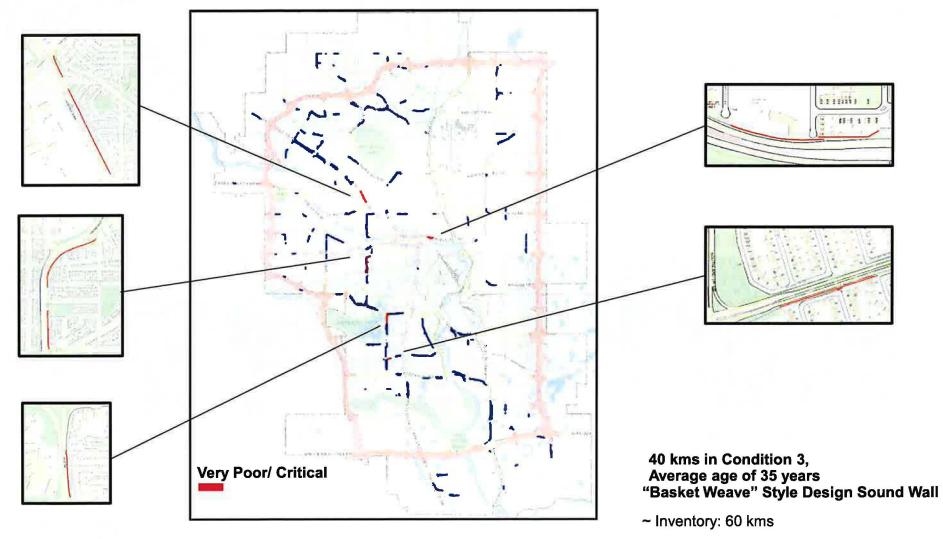


Condition Assessment





Network Condition



~ Average age: 35 years



CROWCHILD TRAIL



22 - 22a St SW - off leash park



24 St SW & Richmond Rd SW

MEMORIAL DRIVE



7a St NE



14 Street SW

Southland Dr SW, adjacent to Sydney Dr SW

- Buried panels deteriorated.
- Ground settled, buckled panels.
- Prolonged exposure to freeze/ thaw cycles.



January 2021

Location	Removal Length (m)	Temporary Measure		Estimated Design Noise
		Chain Link	Post & Cable	Level (dB)
Crowchild Tr SW (22 to 22a St SW	140	>		65
Crowchild Tr & 24 St SW	50			65

February 2021

Location	Removal Length (m)	Temporary Measure		Estimated Design Noise
Location		Chain Link	Post & Cable	Level (dB)
14 St SW between Glenmore Tr SW to 75 Av SW	255	V		65
14 St SW & Southland Dr SW	70			60



The Standing Policy Committee on Transportation and Transit recommend that Council:

Allocate \$4.0 million in one-time funding from the Lifecycle Maintenance and Upgrade Reserve (LMUR) to the Sound Wall Lifecycle Program to meet program deficiencies and address remaining high priority locations with immediate needs.

