

Crowsnest Lake Rock Cut Site

Location:

HWY3:02,

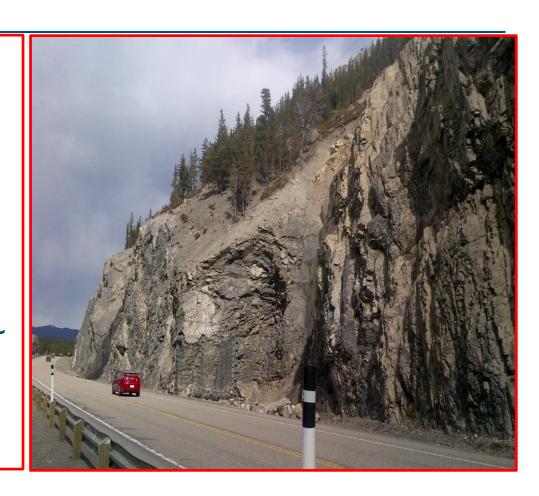
east of BC Border

Length: 700m

Rock Cut Face Height:

Varies - up to 55m

Rock Rolling Distance: ~ 350m from the Highway and >225m elevation difference





Crowsnest Lake Rock Cut Site





Mt Baldy Rock Cut Site

Location:

HWY40:12, @ Kananaskis

Length: 300m

Rock Cut Face Height:

Varies - up to 14m

Rock Rolling Distance: ~

100m from the Highway and >40m elevation difference





Galatea Creek Rock Cut Site

Highway: 40:12, @

Kananaskis

Length: 400m

Rock Cut Face Height:

Varies - up to 15m

Rock Rolling Distance: ~

60m from the Highway and

>30 m elevation difference

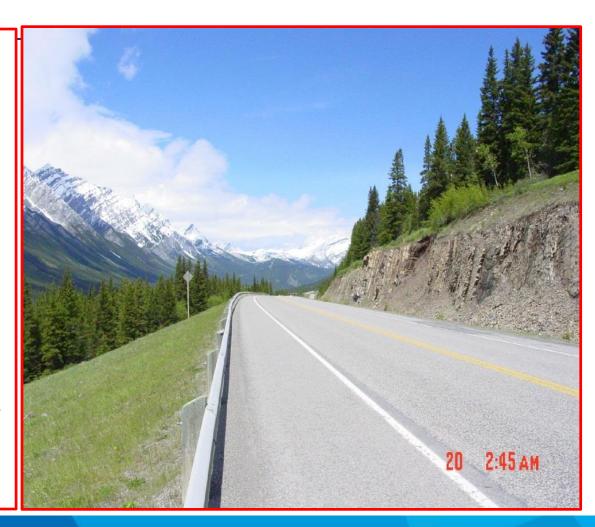




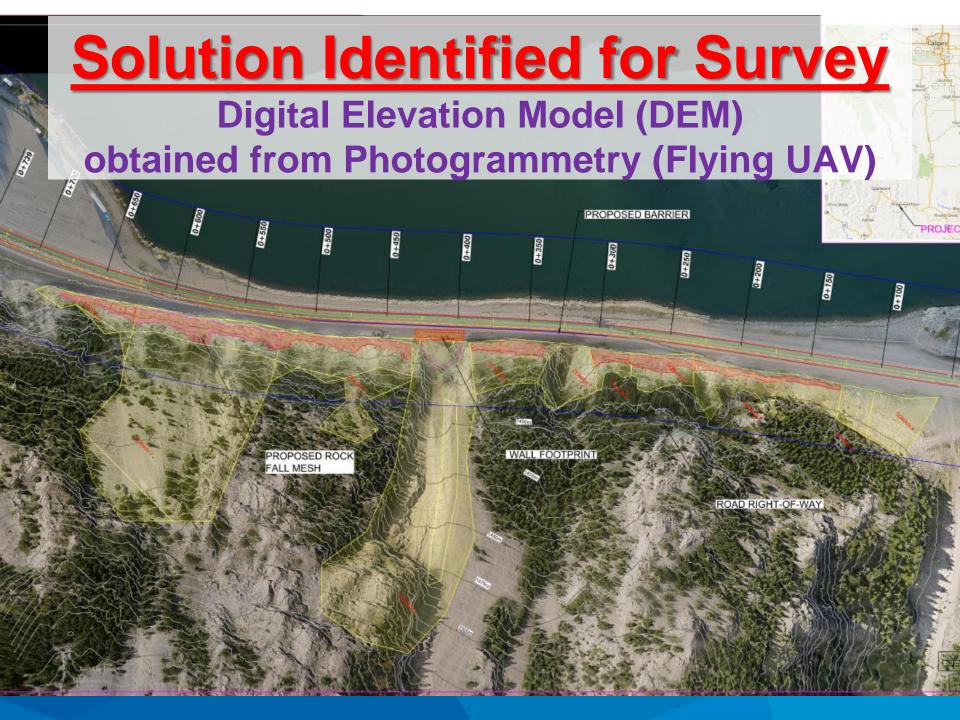
Issues Identified

Risk

- Rock of different sizes falls / rolls down to the pavement
- Debris flows down the hill to the road
- Environmental issues Lake and river near by.
- Difficult terrain for surveying and construction







Solution Identified for Debris Flow



Earthen Wall with gabion facings.

Impact surface lined with recycled conveyor belt.

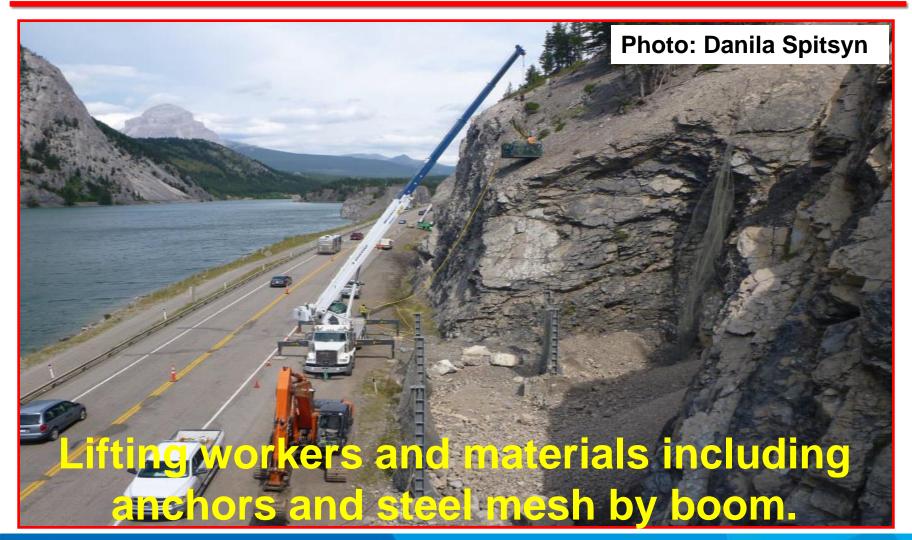


Solution Identified for Rock Fall





Solution Identified for Construction





Constrain to the Solution



Alberta Environment – No animals be trapped in mesh and no trails of Bighorn sheep be disturbed.

CAMERA 2



Wildlife Monitoring



- Motion detecting Cameras at Mt. Baldy and Galatea Creek Rock Fall sites.
- Monitored the motion of Wild Life for a year.
- Identified the trails taken by Bighorns.
- Left the trails undisturbed.



<u>Acknowledgements</u>

- Consultant: Amec Foster Wheeler
- Contractor: McKnight Enterprises Ltd.



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