

# Welcome

to the

## **Bow Ridge Phase 3 Gabion Retaining Walls Open House**

Please sign in and help yourself to a business card for future reference



Stantec

Stantec has been retained by the Town of Cochrane to investigate the probable cause of ongoing retaining wall movement in Bow Ridge Phase 3.

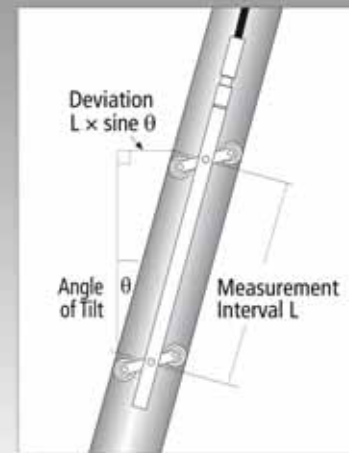
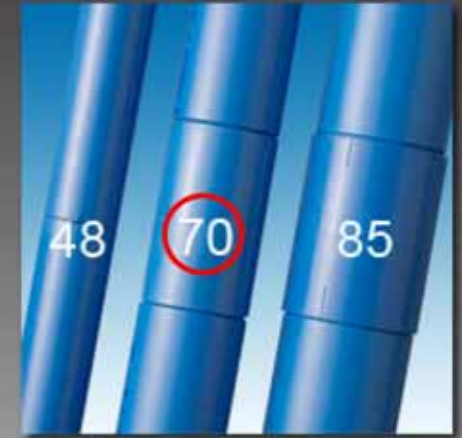
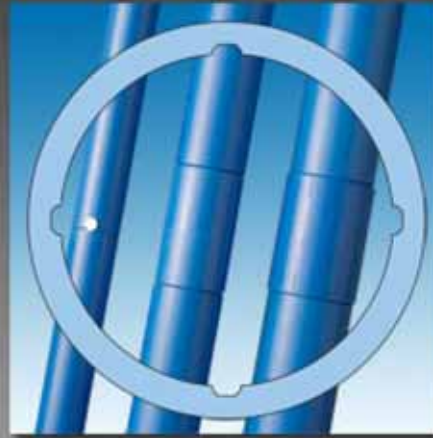
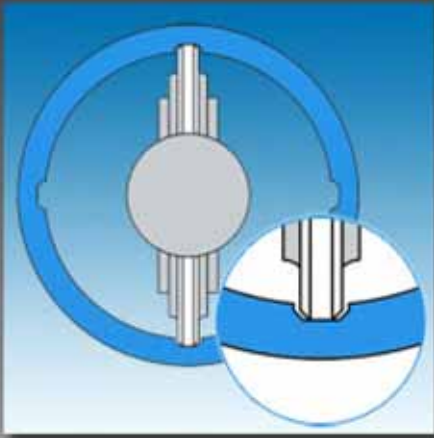
This process includes geotechnical engineering work which is described in the exhibits at this Open House and which staff can explain to you in detail.




The purpose of this investigation was to determine the extent of the wall distresses, assess the cause of the movements and to determine potential remedial measures.



# Inclinometer Casing for Ground Movements Measurement





-  Lots with Rebuilt Wall
-  Lots with Retrofitted Wall
-  Borehole Location



## Finished Boreholes

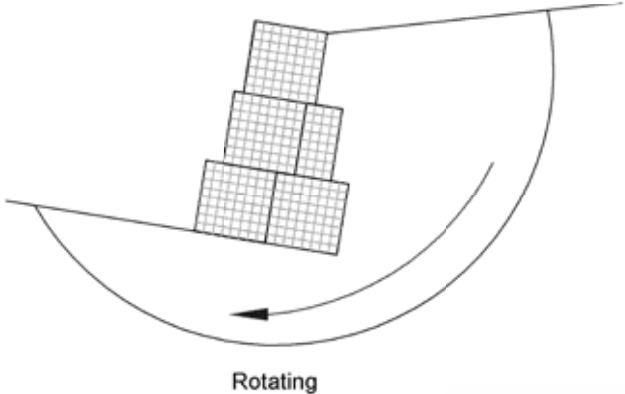
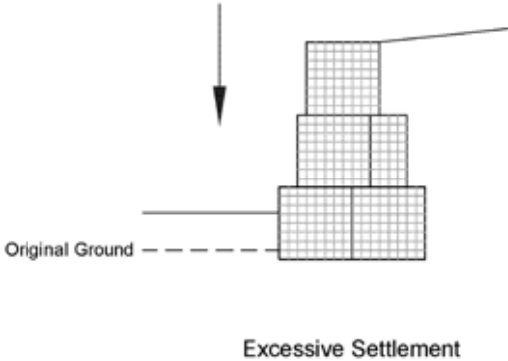
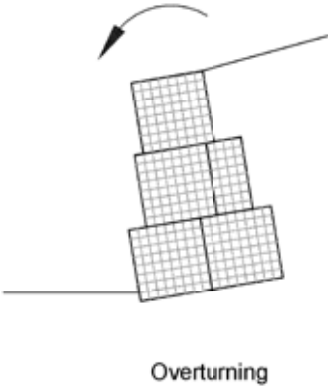
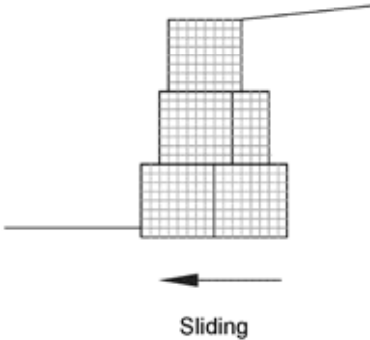


Aspen Heights Condominium Association  
117 Bow Ridge Link

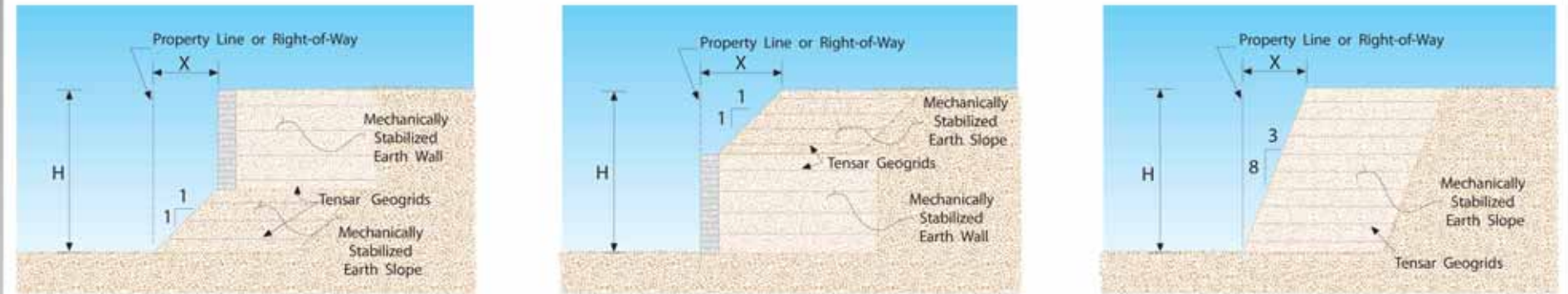


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# TYPES OF MOVEMENTS



# Alternate Wall Systems



Diagrams showing Mechanically Stabilized Earth (MSE) slope and wall designs used when boundary constraints exist.





# Recommendation

**Stantec is of the opinion that remediation of the two existing retaining walls we have monitored in Bow Ridge Phase 3 using the existing design will not be effective.**

**It is recommended that the retaining walls be removed entirely and reconstructed using other alternate wall systems.**



# Alternate Wall Systems



Wall face using Mechanically Stabilized Earth (MSE) technology

Vegetated Reinforced Soil Slope (VRSS)

