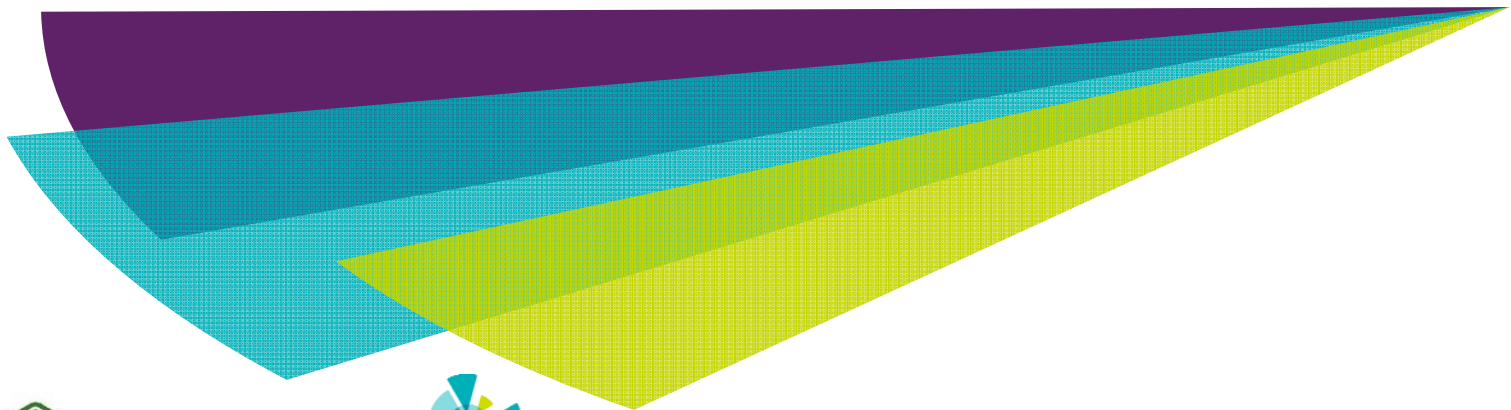




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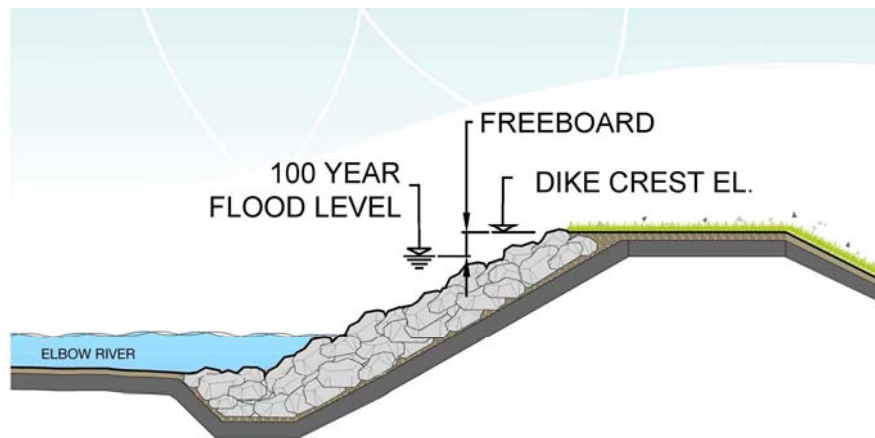
Bragg Creek Flood Mitigation Project



Bragg Creek Flood Mitigation Project

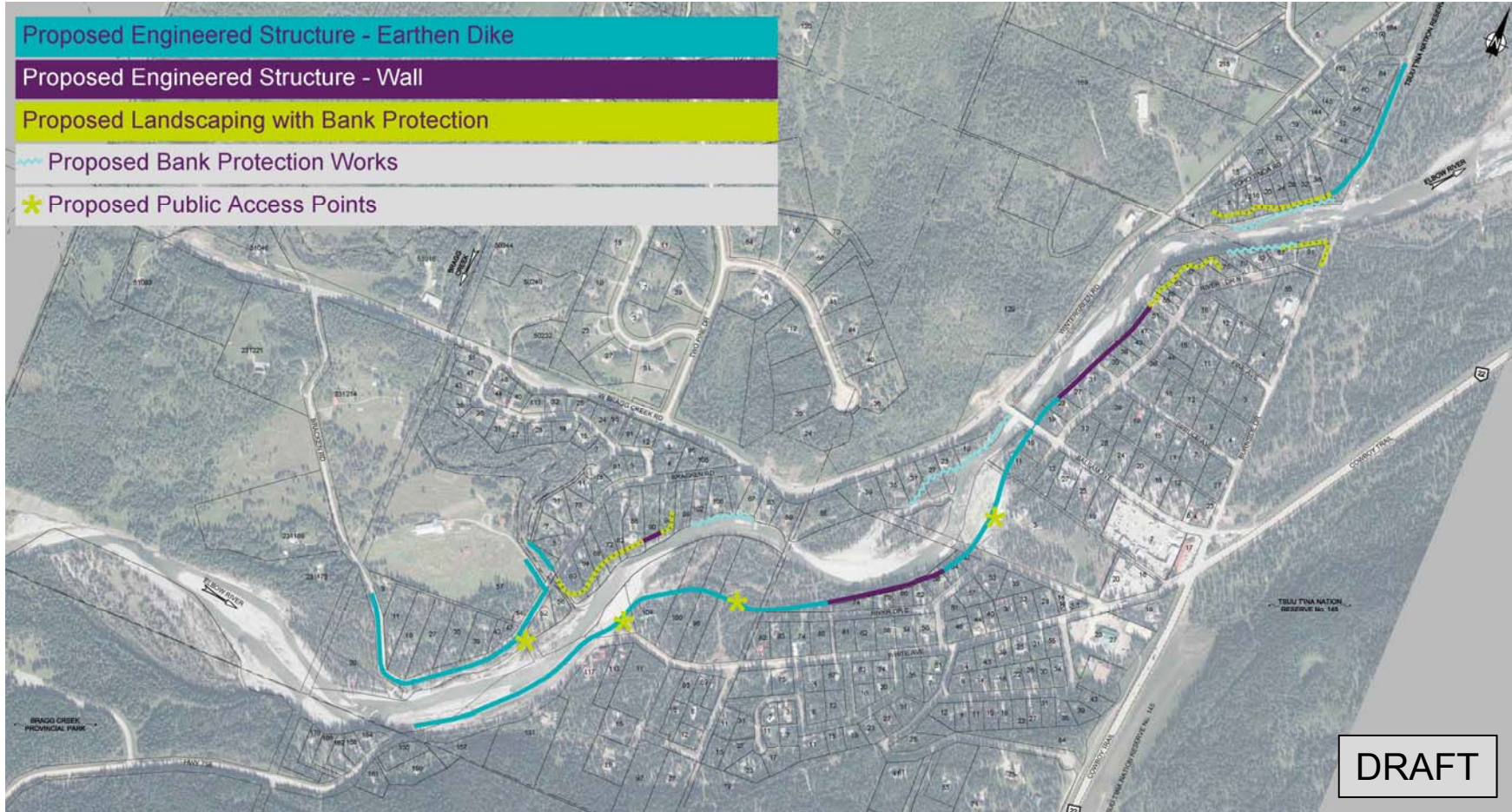
Design Considerations

- ▶ Design based on an estimated 100-year flood water level (provincial standard) plus a minimum freeboard of 0.6 m (i.e. 2 ft)

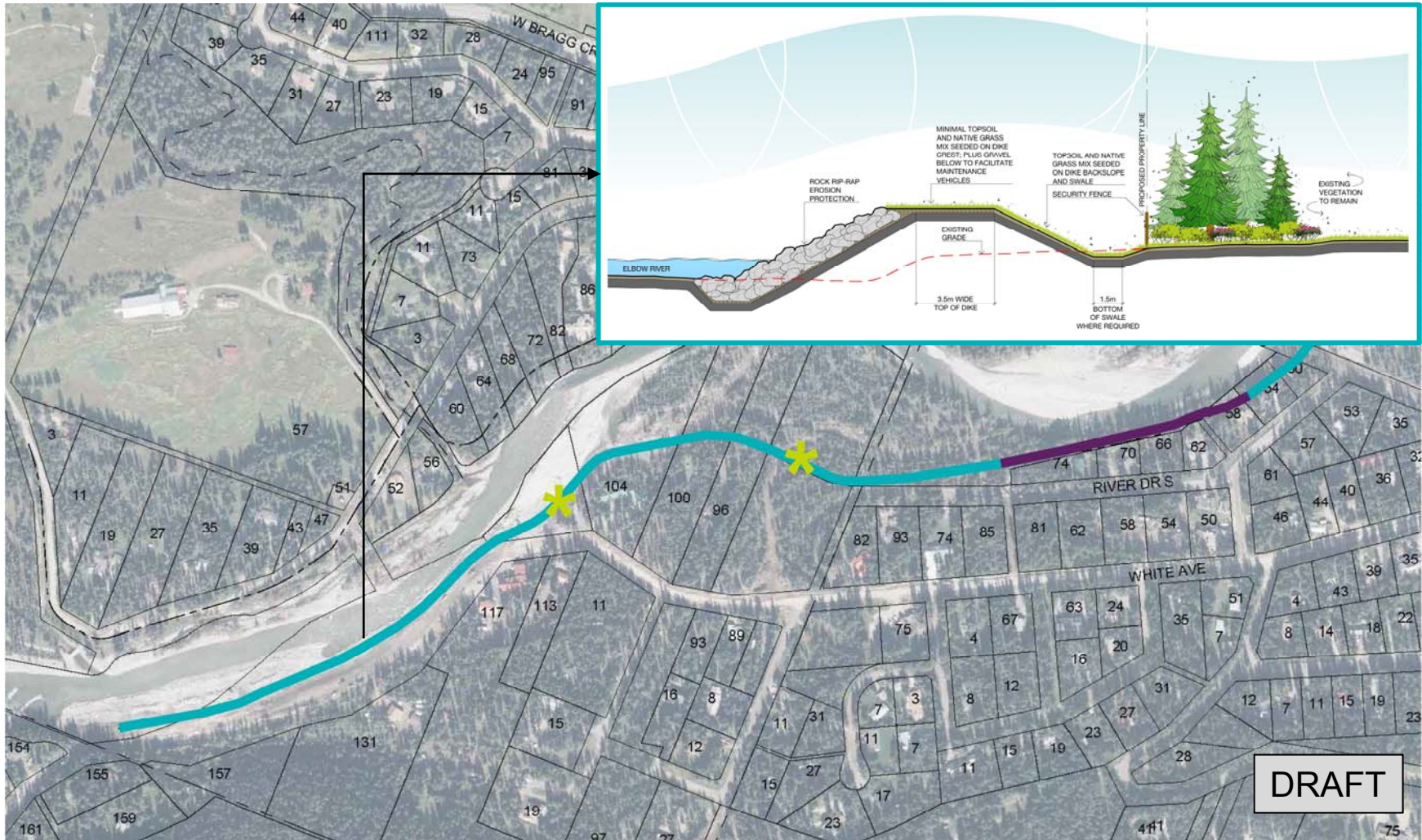


- ▶ Freeboard accounts for items like climate change, riverbed movement effects on flood water level and wave run-up
- ▶ Estimates indicate that the 2013 flood was approximately 20% larger than the 100-year event
 - ▶ 2013 flood would be contained by the proposed freeboard zone

Bragg Creek Flood Mitigation Project Preliminary Design Overview



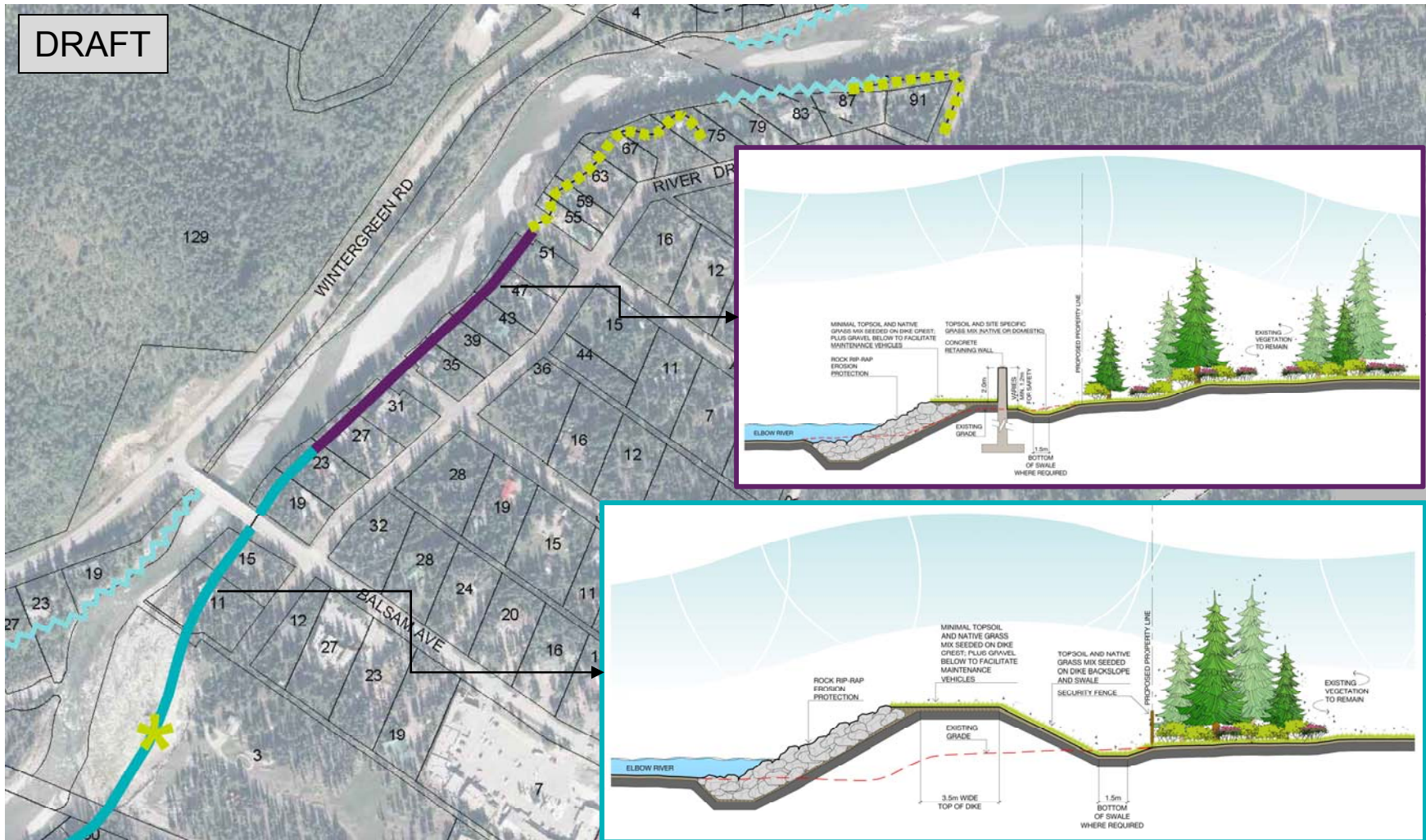
Bragg Creek Flood Mitigation Project Preliminary Design – East Dike



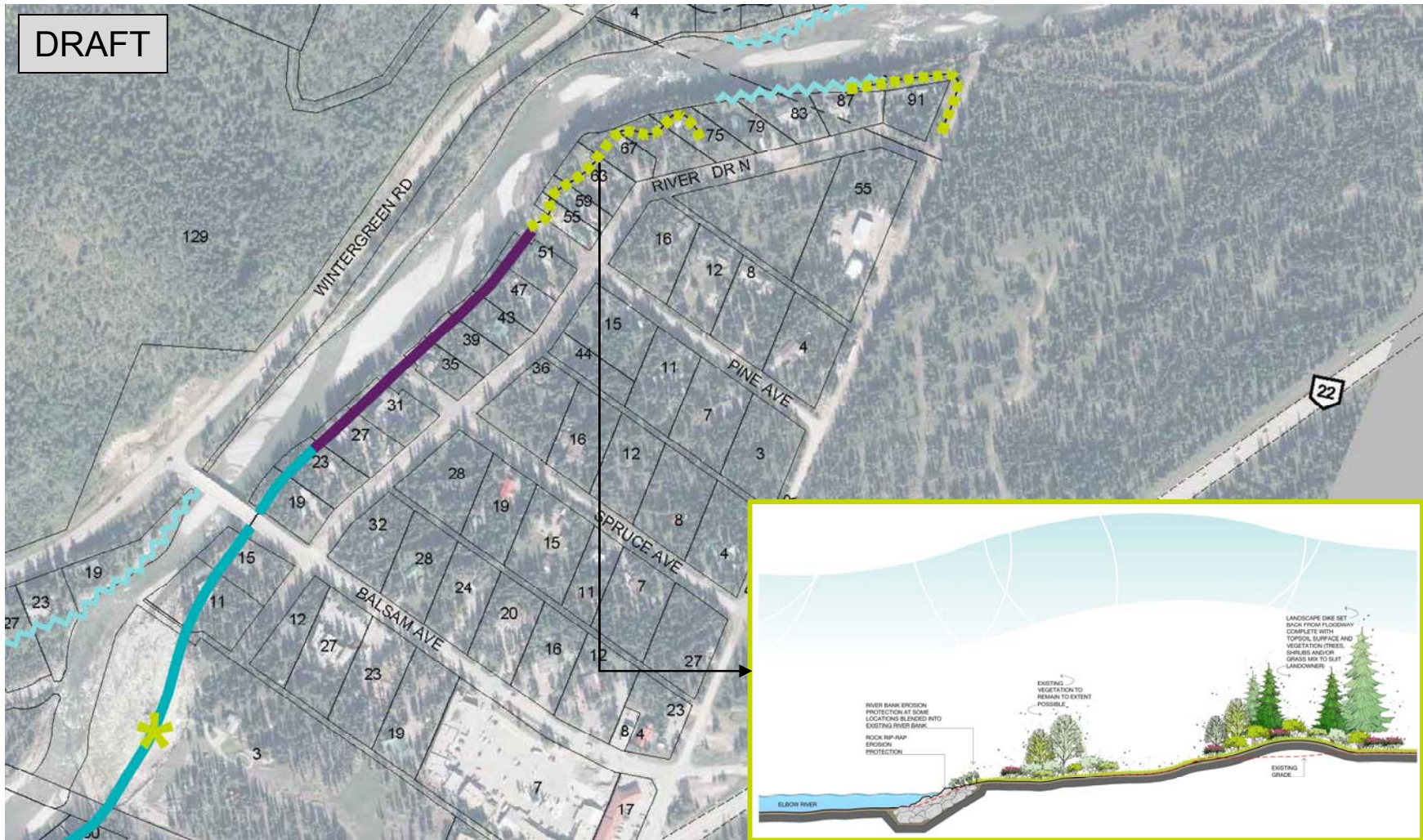
Bragg Creek Flood Mitigation Project Preliminary Design – East Dike



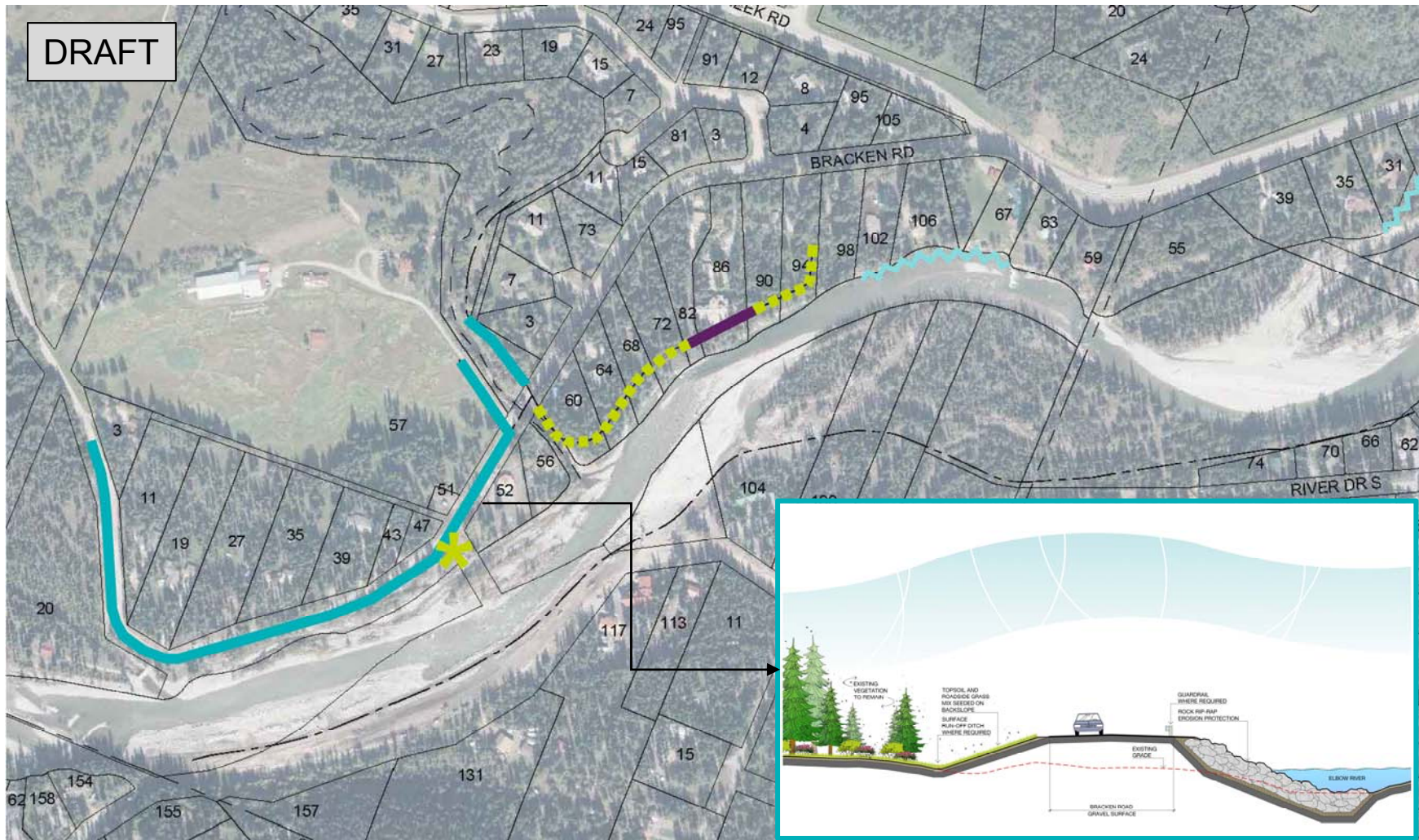
Bragg Creek Flood Mitigation Project Preliminary Design – East Dike



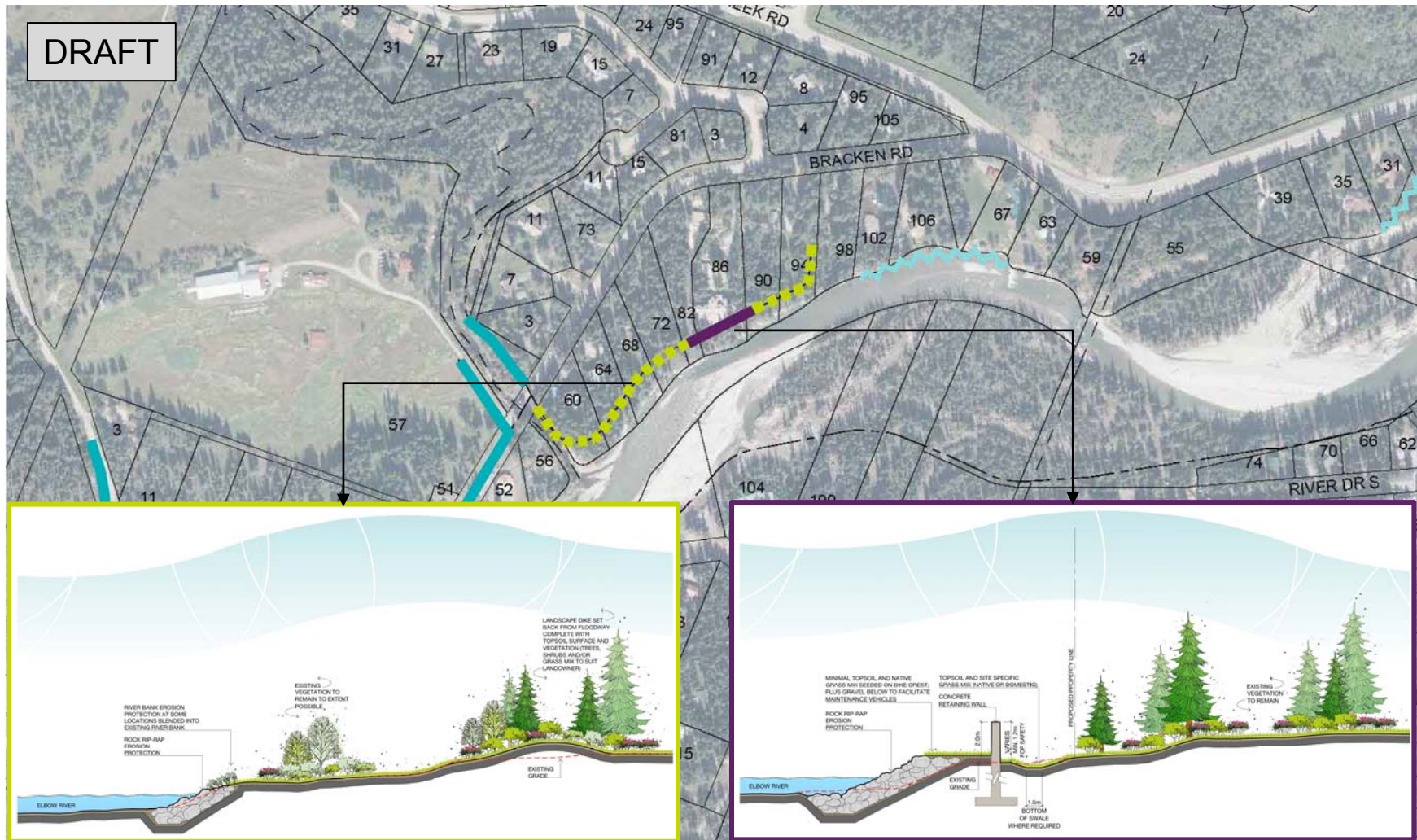
Bragg Creek Flood Mitigation Project Preliminary Design – East Dike



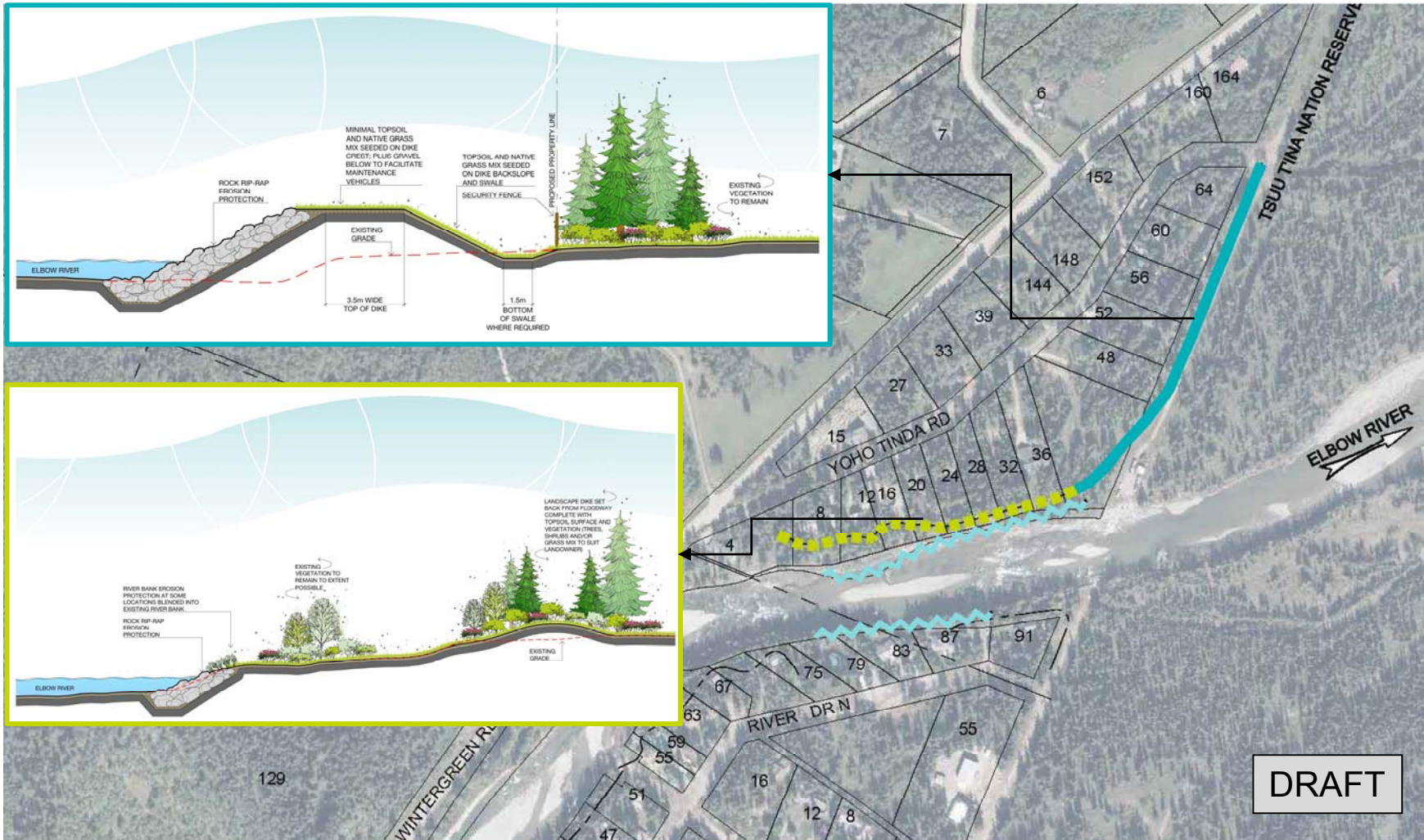
Bragg Creek Flood Mitigation Project Preliminary Design – West Dike



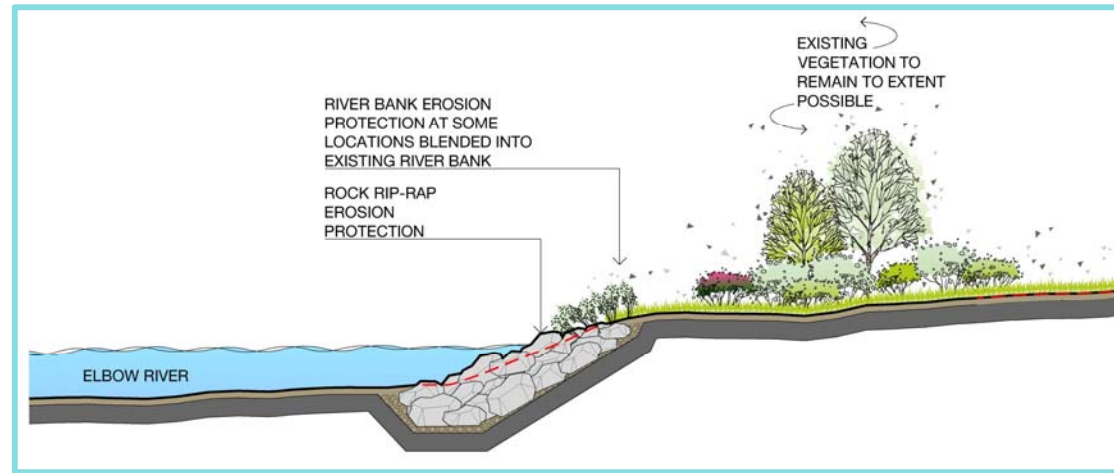
Bragg Creek Flood Mitigation Project Preliminary Design – West Dike



Bragg Creek Flood Mitigation Project Preliminary Design – Yoho Tinda Dike



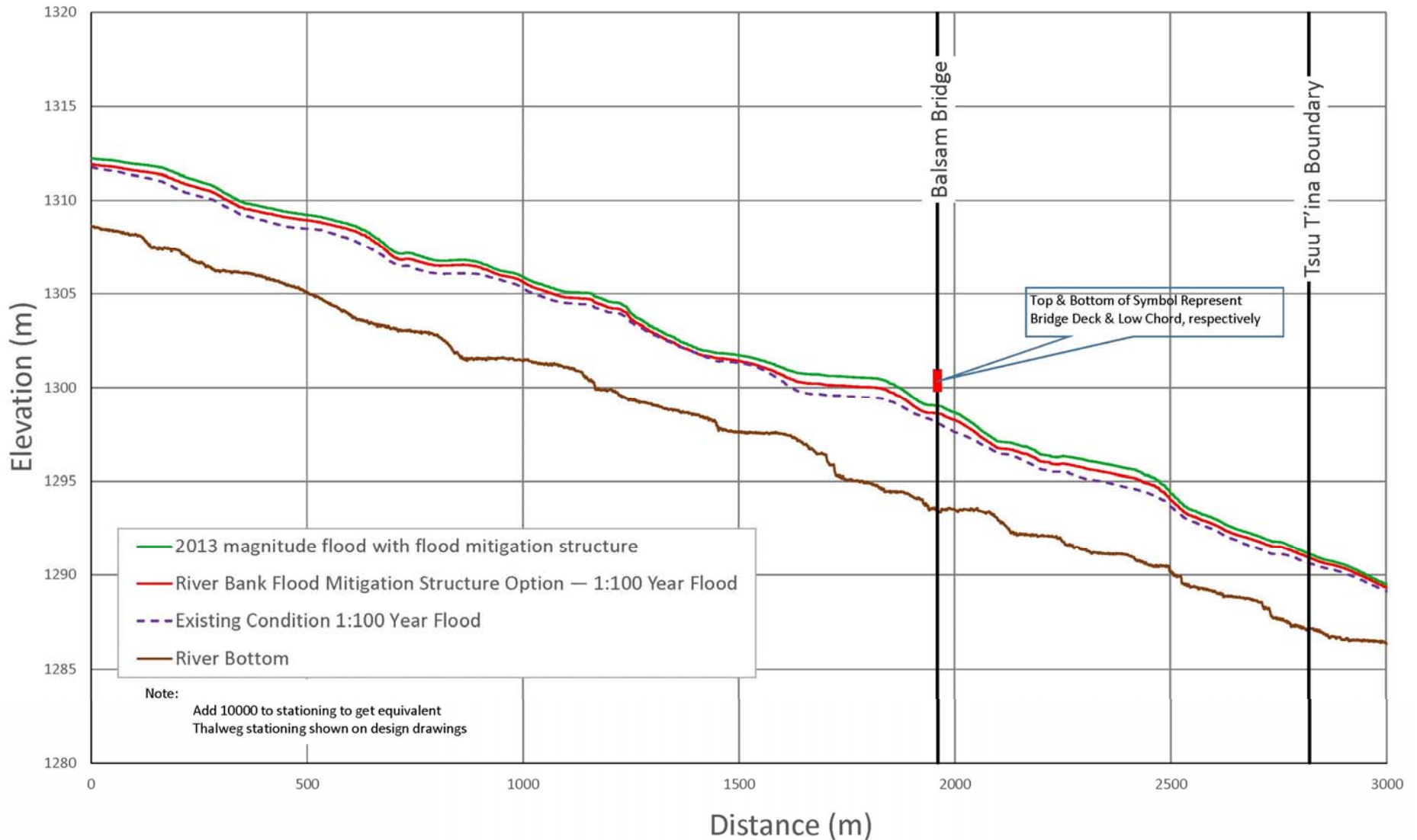
Bragg Creek Flood Mitigation Project Preliminary Design – Bank Protection



Bragg Creek Flood Mitigation Project 1:100 Year Water Surface Profile



Hydraulic Modeling 1:100-Year and 2013 Flood Water Surface Profiles – Bragg Creek Area



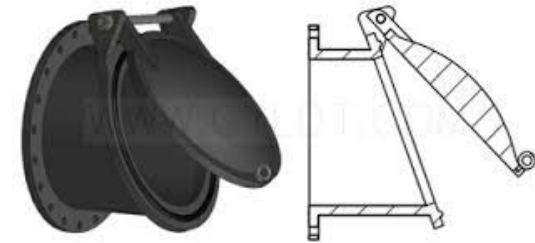
Bragg Creek Flood Mitigation Project

Surface Drainage & Groundwater



► Surface Drainage

- A swale on the landowner side of the proposed barrier will direct surface drainage to corrugated steel pipes through the barrier
- An automatic flap gate will be provided at the pipe outlet which will open as a result of water pressure from the landowner side or close as a result of river water pressure during extreme floods
- A back-up, manually operated sluice gate system will also be provided



► Groundwater Review

- Flood structures will not impact existing shallow wells or groundwater levels during non-flood conditions
- Flood structures will reduce but not eliminate the risk of basement flooding as a result of groundwater seepage during extreme floods

Bragg Creek Flood Mitigation Project

Downstream Impacts

