

Kangaroo Valley Community Meeting

Friday 16 September



Topic

The scale of the operation

Natural Disaster Relief & Recovery Arrangements (NDRRA)

Landslips impacting Kangaroo Valley & surrounds

Progress so far

What's to come

Landslips

Why?

Heavy rainfall = saturated earth = instability = movement = stability

Rain

Jan = 151mm

Feb = 172mm

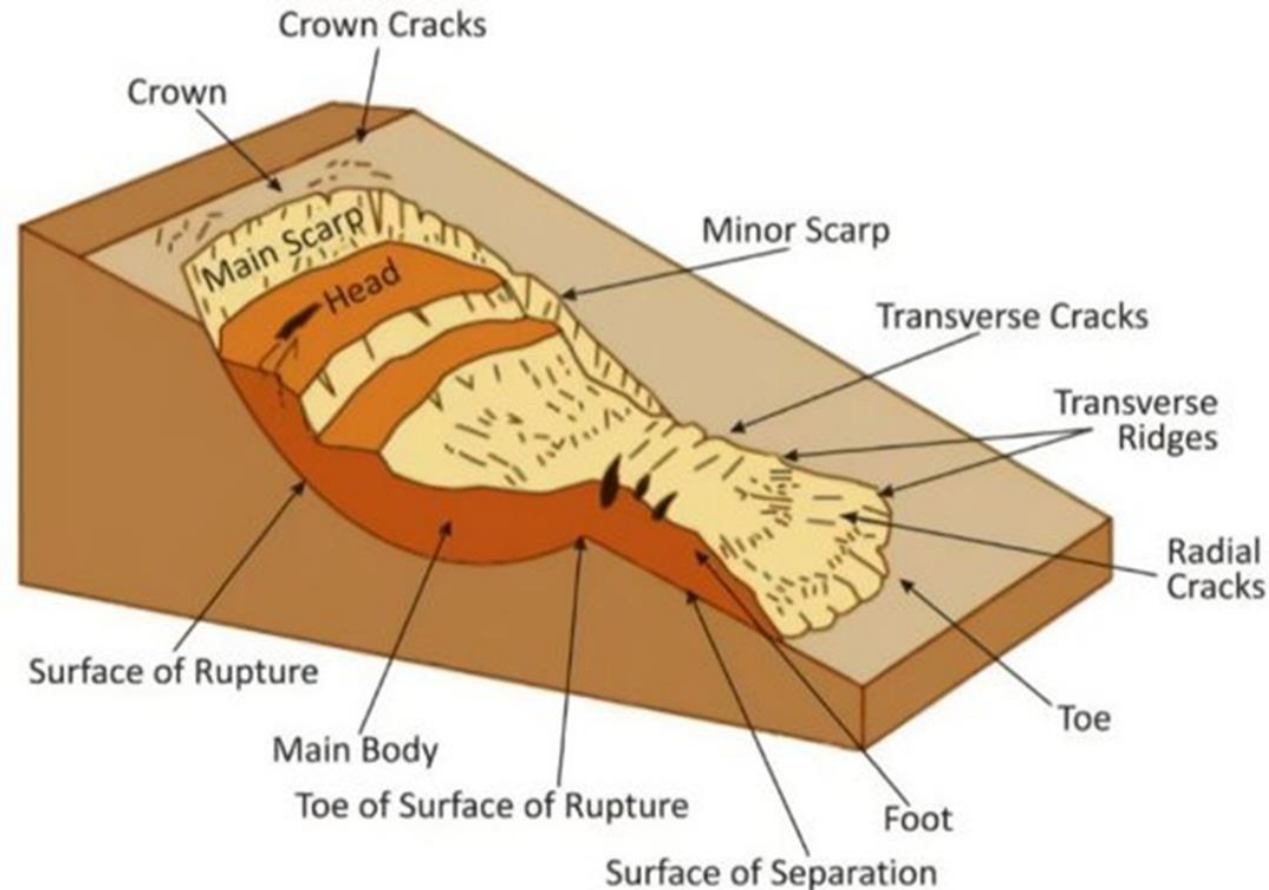
Mar = 726mm

Apr = 226mm

May = 46mm

Jun = 5mm

Jul = 639mm

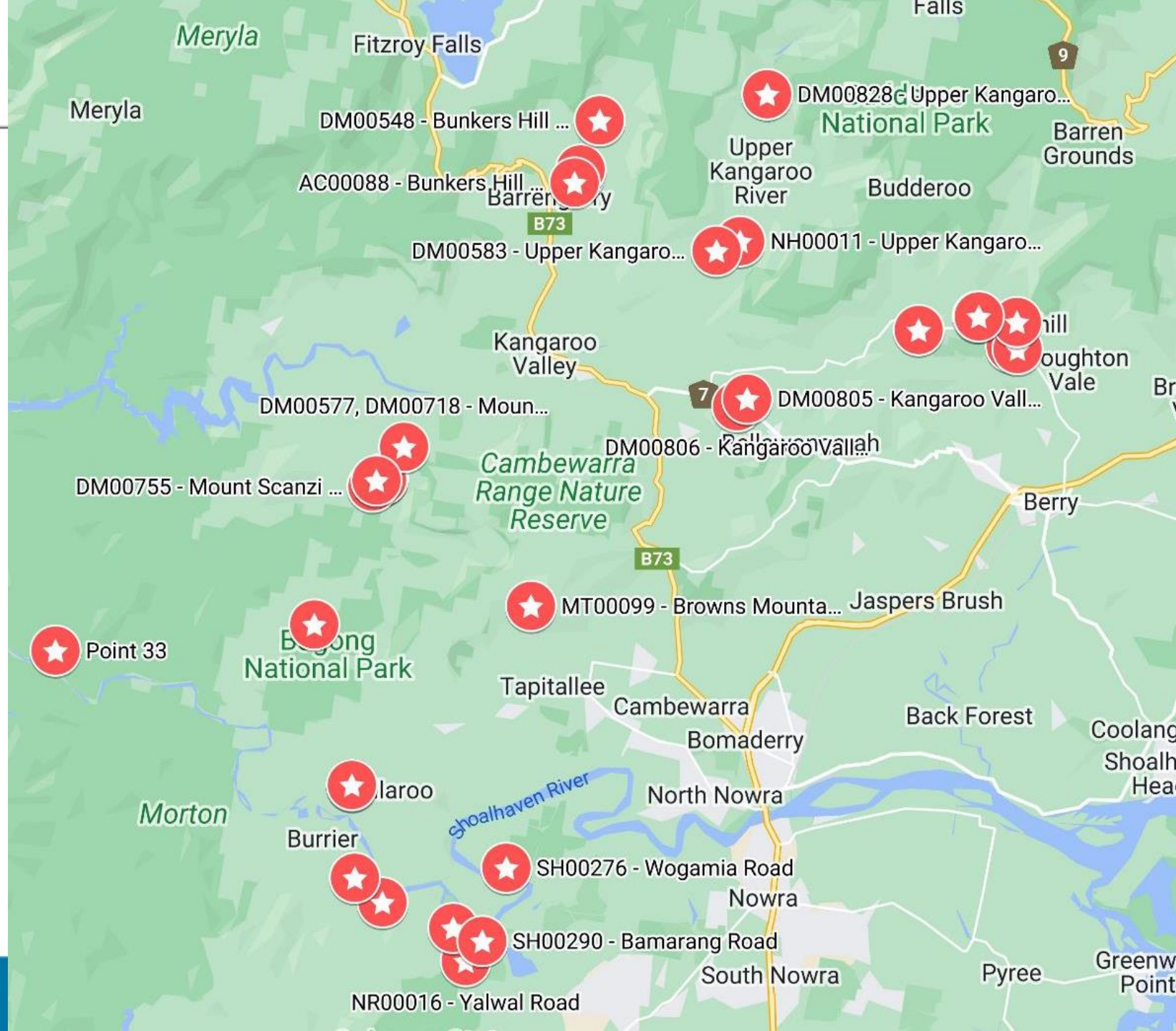


Landslips

Where?

98 landslips

Across 28 roads



Not Business as Usual



Paul Keech
Director
City Services



Beorn Hulme
Senior Project Manager
Natural Disasters



Trevor Dando
Manager
Works & Services



Brian Jacobs
District Engineer
North



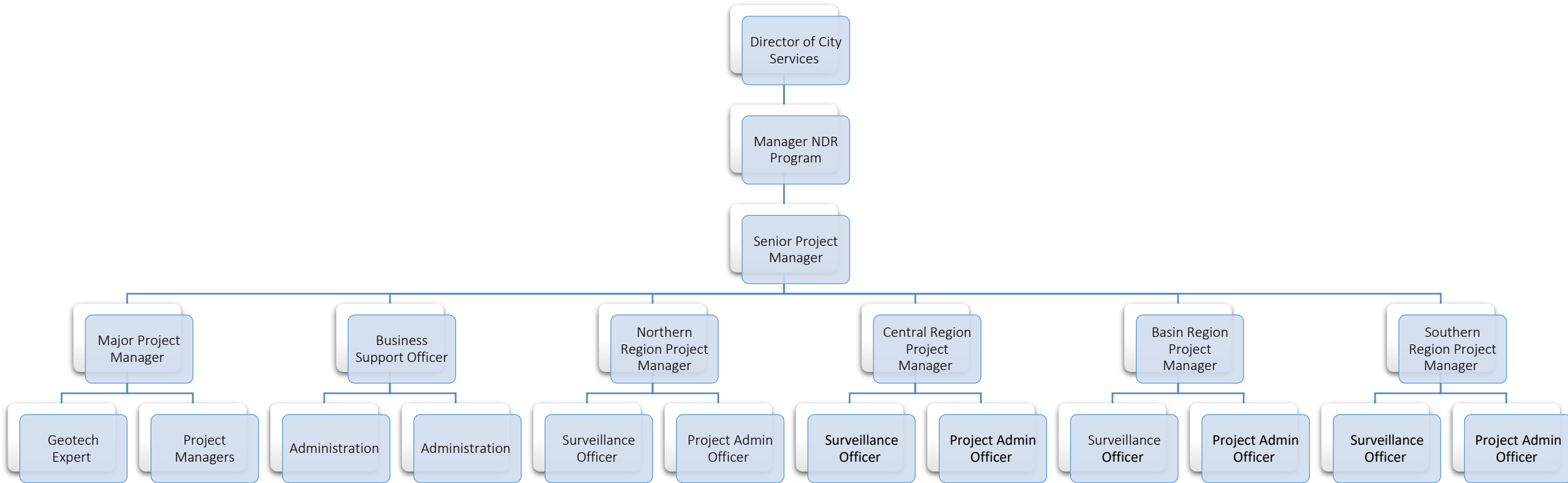
Dominic Lucas
Project Manager



Natural Disaster Reconstruction Team



Natural Disaster Reconstruction Team



Scale of operation

March 2022



- Emergency response
- 2200 sites damaged
- 351 'emergency' sites
- More than \$50M in road damage
- Natural disaster declaration

April - June



- Natural Disasters office
- Making communities accessible
- Restoring public assets
- Seek funding
- Project page subscriptions

July



- Flooding & record rainfall
- 98 landslips
- 13 sinkholes
- 2600 sites damaged
- An additional \$25M in road damage
- \$4M of levee bank damage
- Natural disaster declaration

August - September



- Recovery works
- Geotechnical reports
- Design works
- Prioritisation & construction planning
- Could approach \$80M in damage
- Seeking funding

Disaster Recovery Funding Arrangements (DRFA)

- Established by the Federal Government to alleviate the financial burden on the states and ensure early assistance to disaster affected communities.
- The Federal Government provides financial assistance directly to the states to assist them with costs associated with disaster relief and recovery assistance.
- The states determine the type and level of assistance to make available.
- The states the process by which to distribute funds

The Funding Process

Phase 1

Emergency works – start immediately, notify State Government, 21 days to complete

Phase 2

Immediate reconstruction works – starts ASAP, seek agreement from State Government to commence work, 3 months to complete

Phase 3

Essential public asset reconstruction works (ie major works)

- Within 6 months, submit funding application for approval to state government including full extent of repairs, estimated cost and provide evidence
- Within 2 years of EOFY after disaster event, all work to be designed & constructed. (June 2025)

5 – CRITICAL

- Road closed or single lane traffic
- risk of people not having access to emergency services (e.g. hospitals)

4 – HIGH

- Road closes after short rain events
- Damages add risk to damage to vehicles or people
- Risk of people having to make long detours to have access to emergency services

3 – MODERATE

- Damages require slowing of traffic
- Damages add risk of traffic accidents due to slowing or swerving around damages.

2 – LOW

- Damages unlikely cause harm or injury
- Damages could deteriorate over time if not addressed

1 – VERY LOW

- Damages unlikely cause harm or injury
- Damages unlikely to deteriorate

5 – CRITICAL

- One or more entire communities impacted

4 – HIGH

- One or more suburbs impacted

3 – MODERATE

- One or more roads impacted

2 – LOW

- One or more residents impacted

1 – VERY LOW

- Inconvenience only

Progress so far (phase two) – Burrier Rd



Progress so far (phase two) – Foremans Rd



Woodhill Mountain Rd – before & after



Wattamolla Rd – before & after



Wattamolla Rd – repairs in progress



Listening to the community



You want to be heard



You want your suggestions and ideas to be considered



You want to be kept in the loop every time things change or are progressed



You want a good working relationship with Council that is based on trust



You want our decisions to always consider your livelihoods



Farm supplies



Access to school / sport / work



DAs



Businesses to run



Medical access



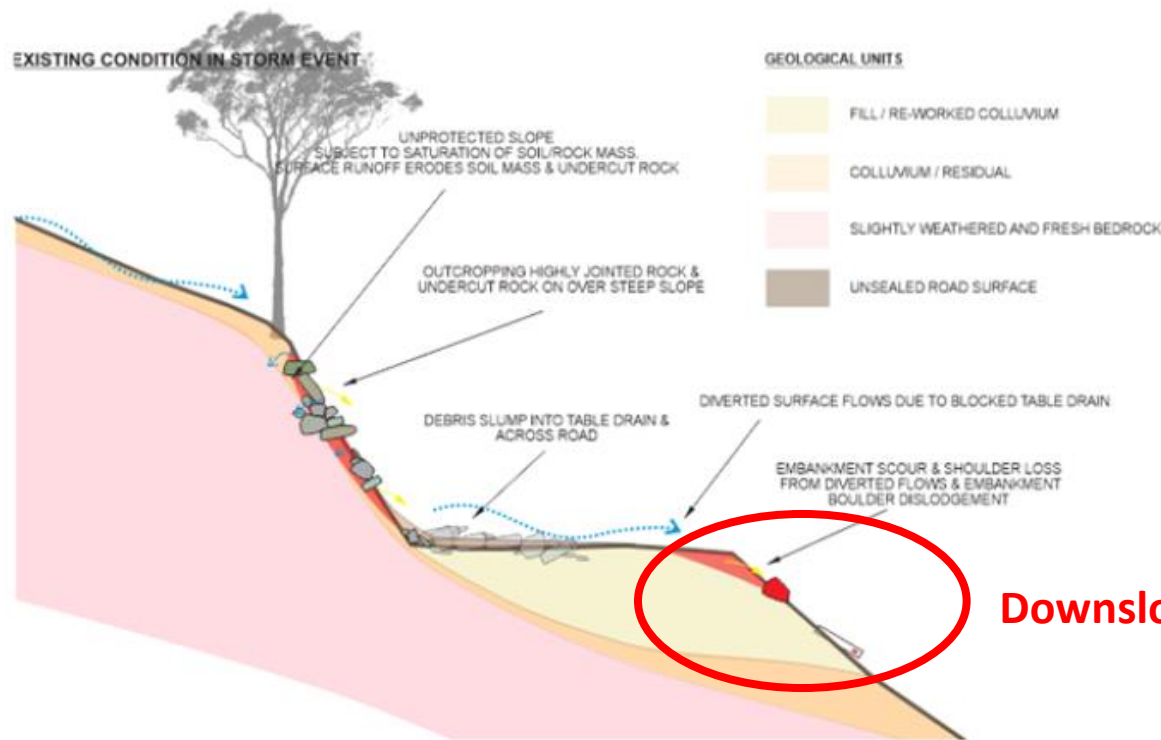
Recovery information

How our landslips differ

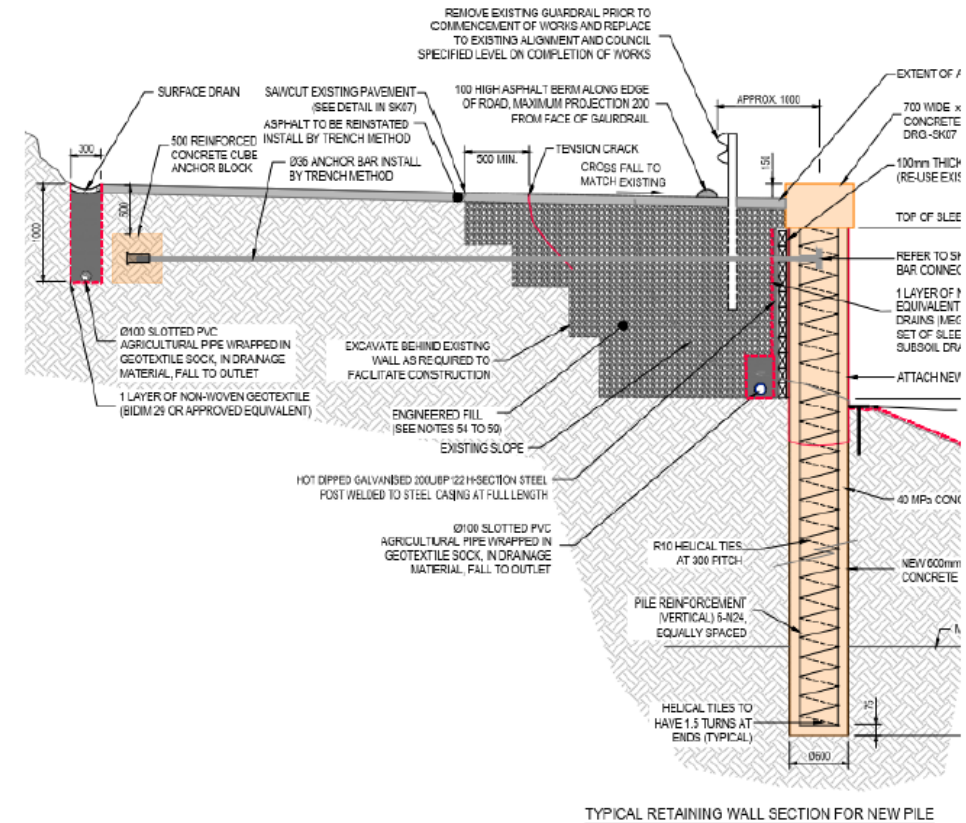


Downslope – stabilising piles

Type 1

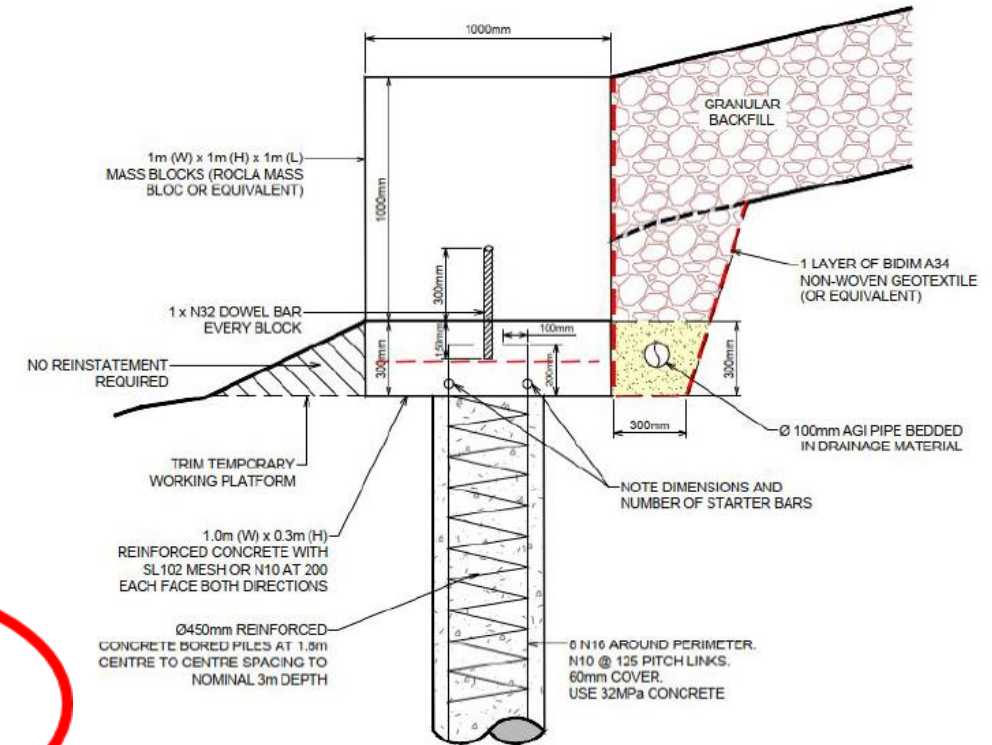
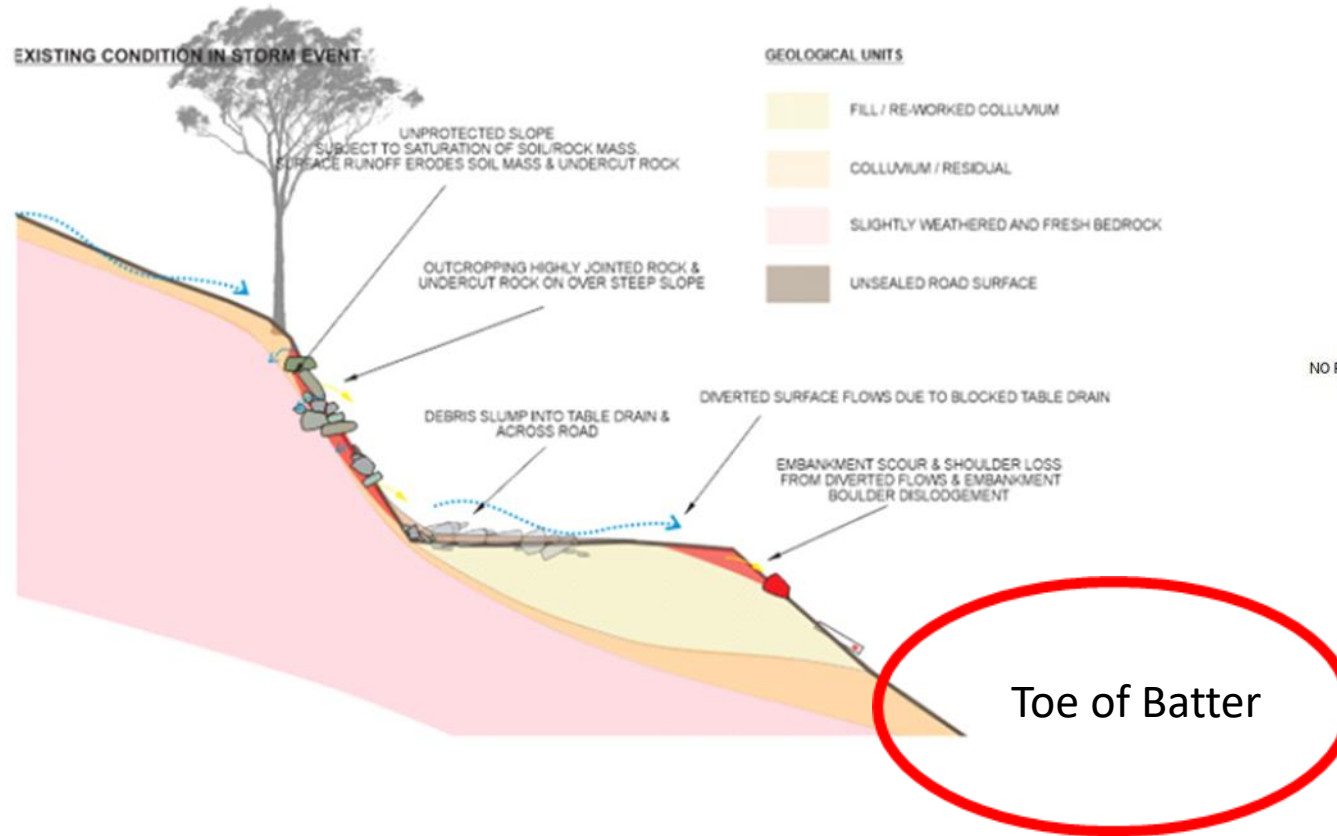


Downslope



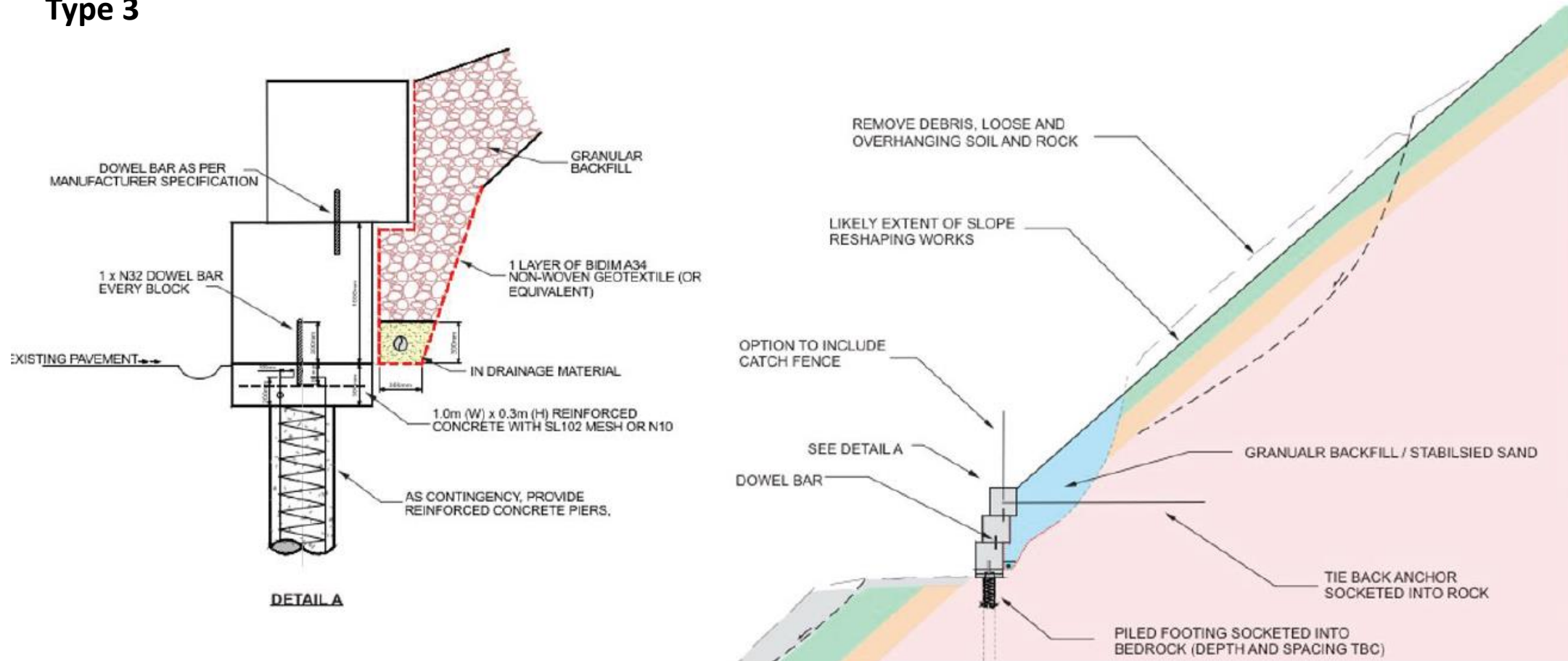
Downslope - gabion baskets at toe

Type 2



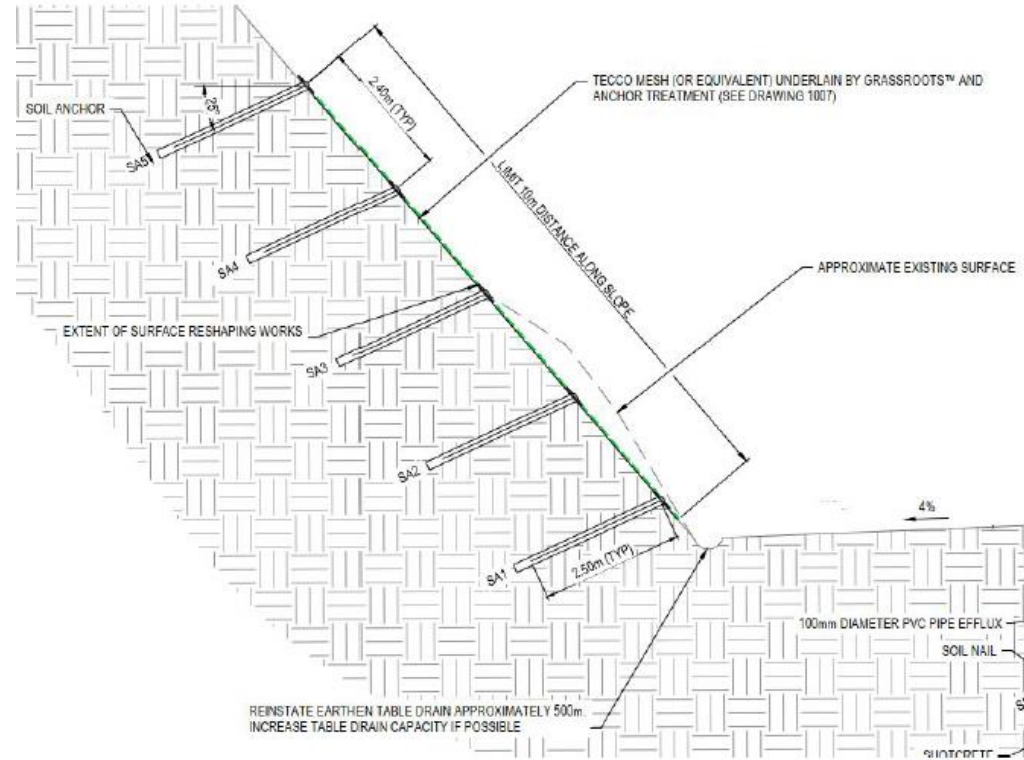
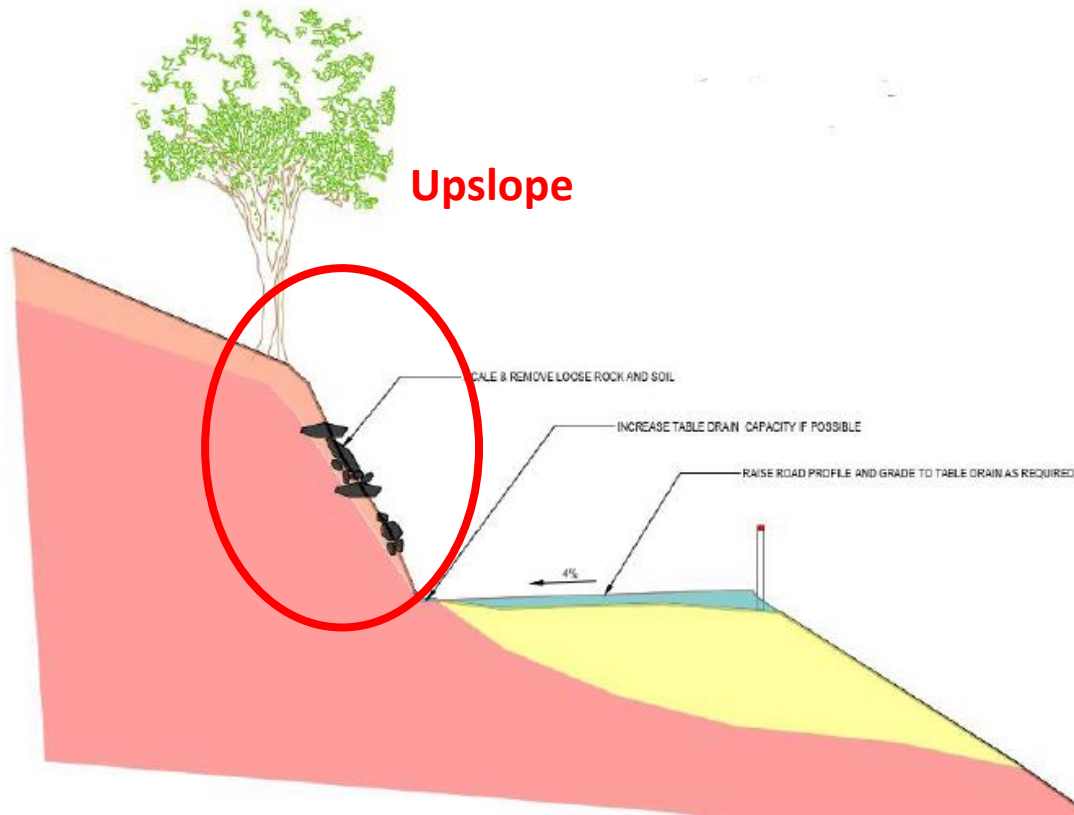
Upslope - mass block barrier system

Type 3



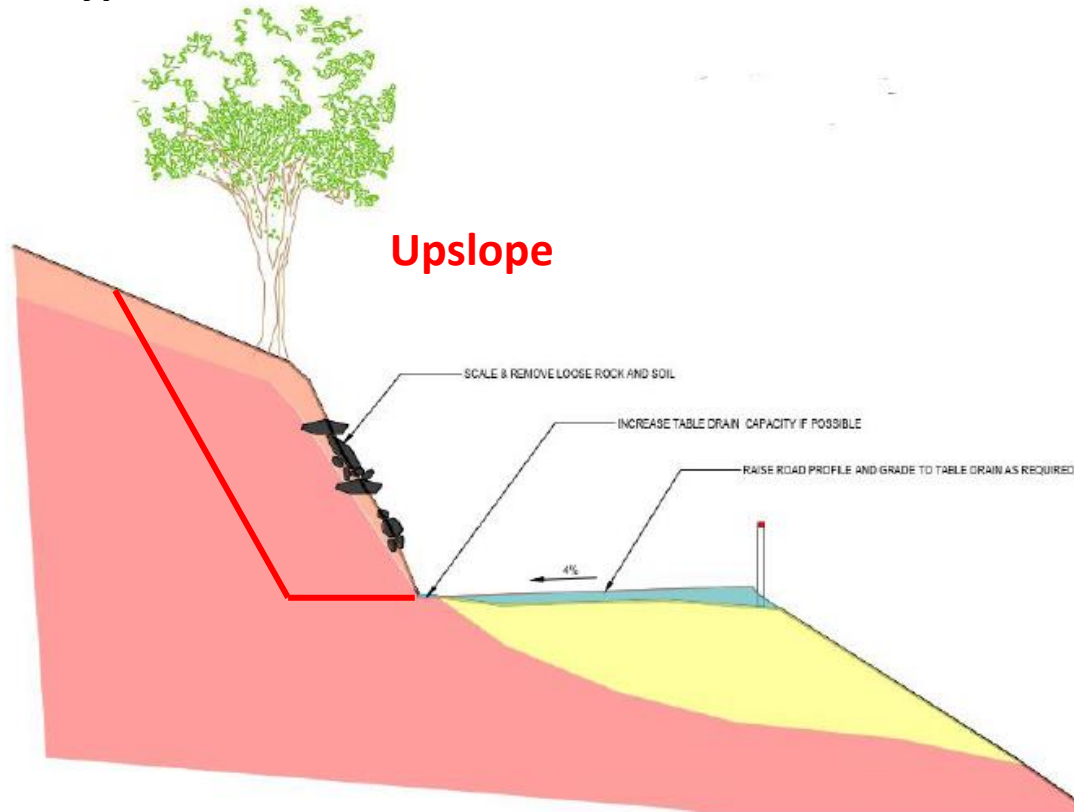
Upslope - mesh & anchors

Type 4



Upslope – cut back

Type 4



- Potentially exposing variable, **unknown quality weathered rock/soil**, creating an increased likelihood of upslope instability, which may require more advanced slope remediation measures;
- Increasing the **height of cut** will likely increase the risk profile to road users i.e., increased height and velocity of rock fall (if quality of rock not significantly better than existing);
- Likely to require a **large volume of rock** requiring excavation and transportation to achieve a full lane width; and
- Depending on the width of widening, this may not address the long-term risk of **down slope instability** regressing further back into new lane.

Investigation & design

35 major sites – consultant

- Record & map extent of damage
- Investigate geology and survey site
- Analyse slope stability
- Confirm mode of failure
- Identify workable construction solutions
- Assess each option based on criteria such as constructability, WH&S resilience, environmental impacts, ongoing maintenance & cost
- Select solution for site i.e. concept design
- Final design, Costing & reporting – complete by mid- October 2022
- State Government funding approval to proceed to construction



Geotech sampling – Woodhill Mountain Rd



Geotech sampling – Upper Kangaroo River Rd

Geotech's have visited over 70 sites so far

Detailed investigations have been done on 35 sites



35 sites – contractor

1. Prepare specifications

- a. Concrete, steel and dimensions etc
- b. Activities: time, access, noise and engagement etc

2. Prepare contract documents

- a. independent expert input

3. Call public tenders

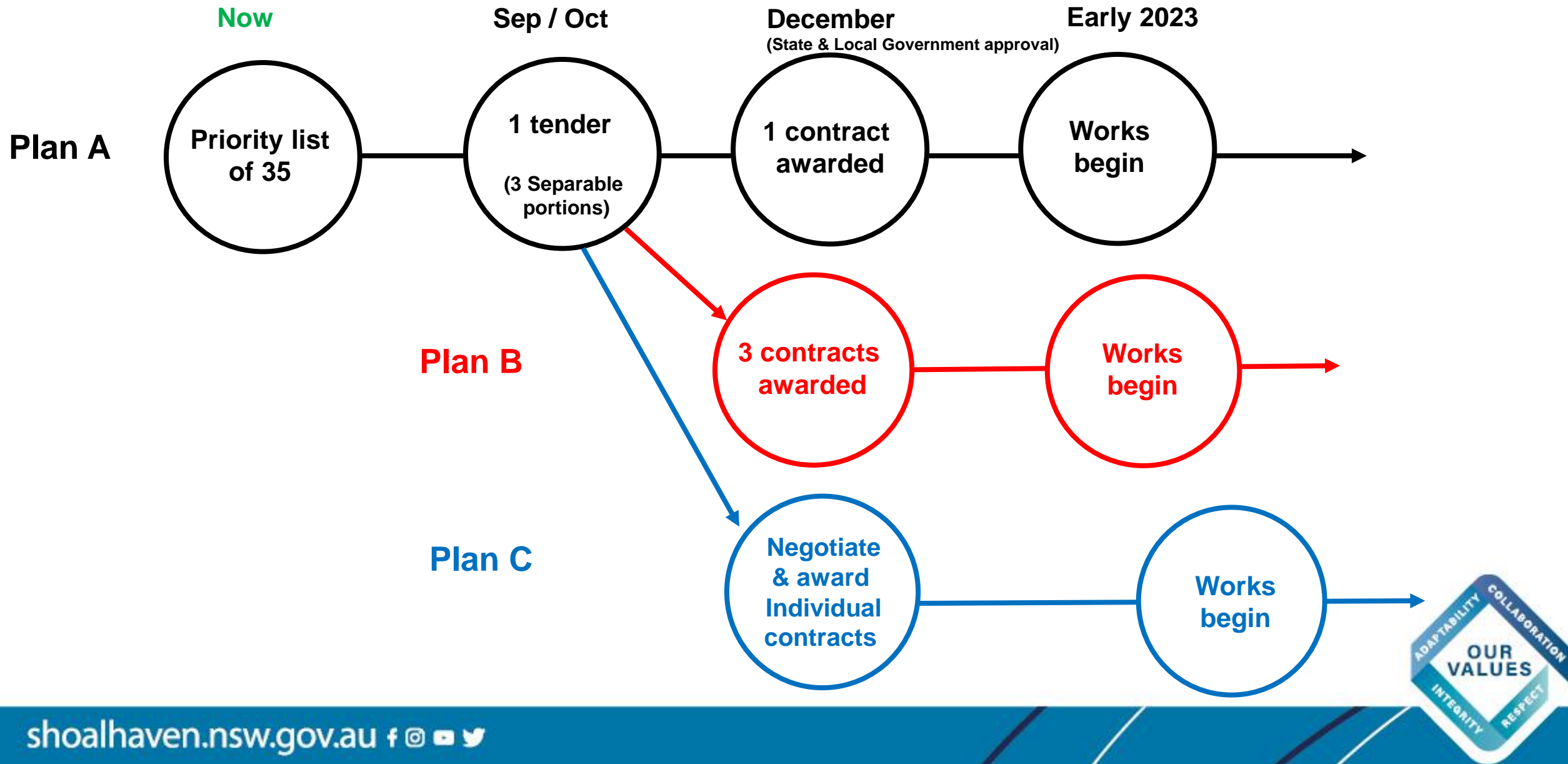
4. Assess and recommend contractor(s) to Council

- a. independent expert input

5. Award construction contract



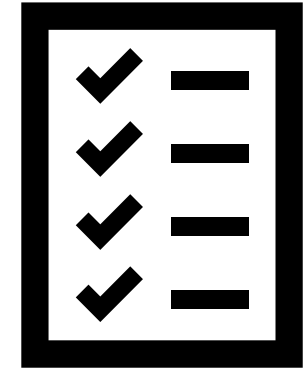
Strategy – snapshot of the program ahead



Strategy – Work begins

Following the award of construction contract(s):

- Contractor programs construction work in consultation with the Natural Disaster Reconstruction Team (NDRT) and affected residents to understand specific needs.
- The Construction Program is approved by the NDRT
- Contractor sets up the site(s)
- Relationships are established
- NDRT oversees construction work
- NDRT facilitates regular communication between contractor & community



Next steps



Preconstruction engagement with preferred contractors



Scheduled site meetings with Council staff at milestones



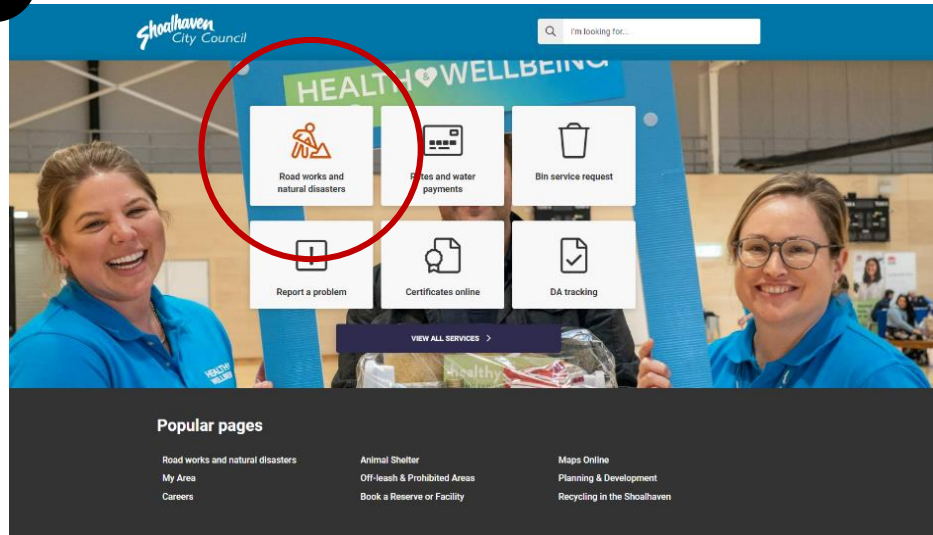
Monthly drop-ins at Kangaroo Valley Hall with senior staff to discuss various matters



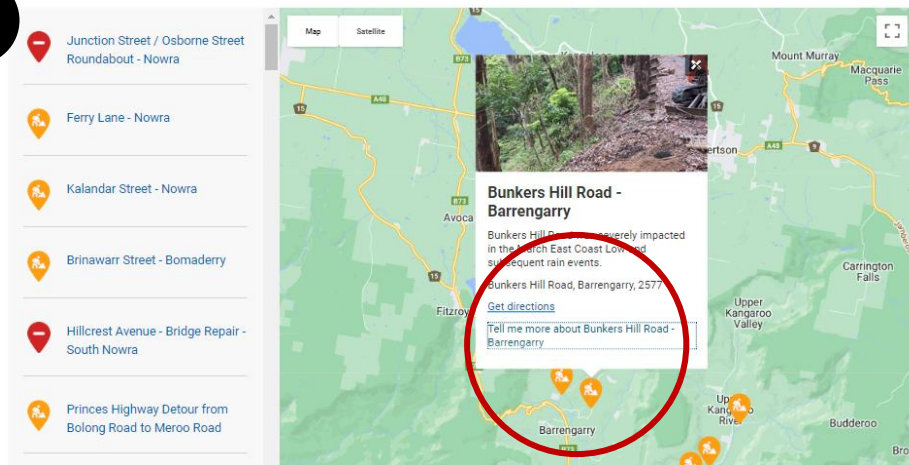
Subscribe to the Road works page

One Source of truth

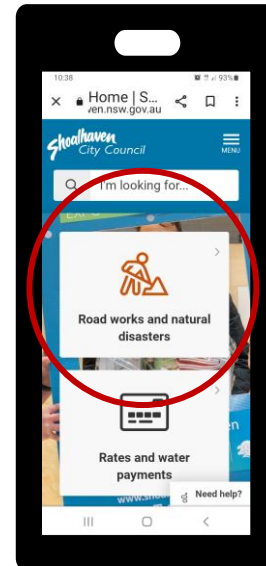
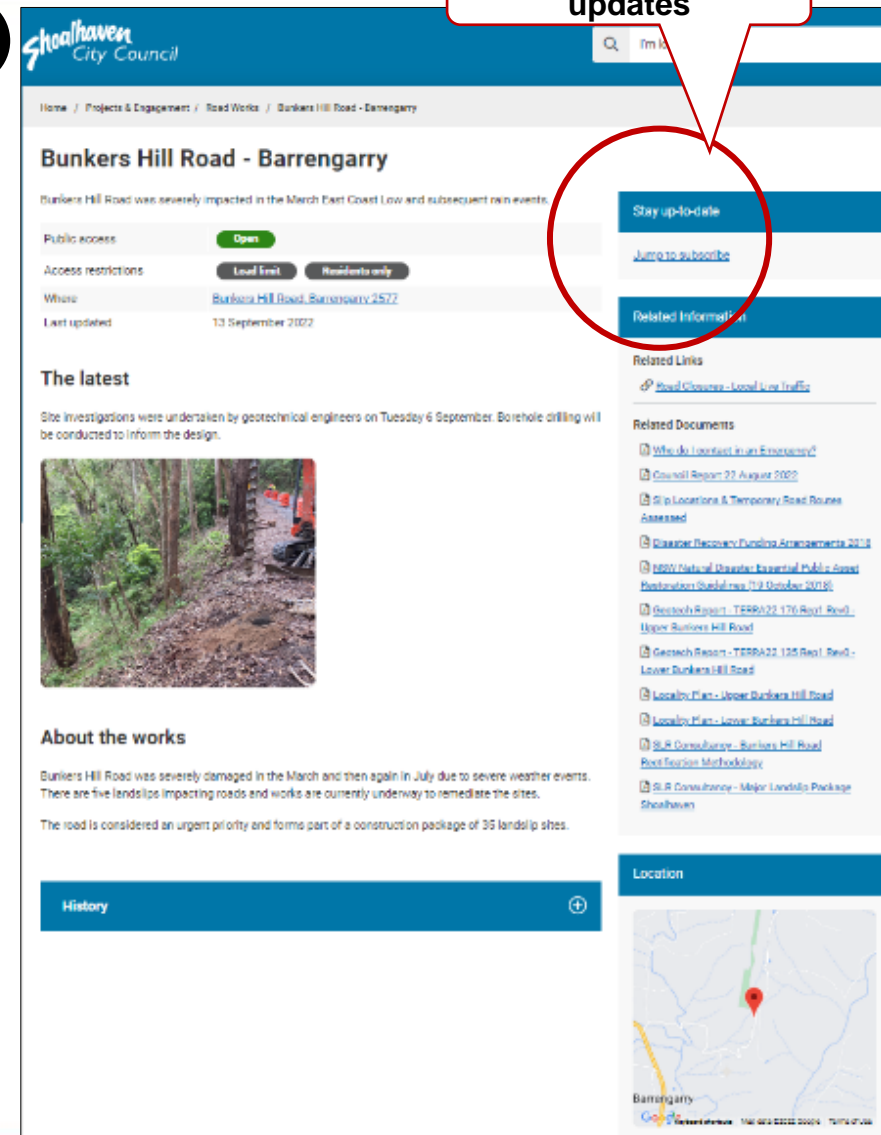
1



2



3



Mobile Friendly

QUESTIONS?

