SH2 Pekatahi Bridge Deck Replacement

- Sunny Zhang  

17th August 2017
Project Summary

- 367m Single lane railway bridge
- Project Scope
  - Existing timber deck and railway removal
  - New timber deck installation
  - Relocation of Power/Telecommunication Cables
  - Traffic Signal Upgrade
- Proposed Project Period: 3 months from 7th Feb
- Project Cost: ~$4 Million
Project Challenges – Impacts to Customers

[Map showing detour route via SH30 and road and bridge closure around Whakatane.]

New Zealand Government
Project Progress

State Highway 2 Pekatahi Bridge deck replacement reaches half-way milestone

27 Mar 2017 04:00 pm | NZ Transport Agency: Waikato & Bay of Plenty

A project to replace the Pekatahi Bridge deck on State Highway 2 has reached the half-way point, the NZ Transport Agency says.

Tags:
- Media release
- Waikato and Bay of Plenty

Side view of work on the Pekatahi Bridge.

Pekatahi Bridge

Dowenr Construction working near the bridge.
Whakatane River Level – Cyclone Debbie

- Highest Recorded Flood Level: July 2004
- Peak Flood Level: January 2012
- Second Warning Level
- First Warning Level
State Highway closures in Bay of Plenty on 13 April – Cyclone Cook
Damage Caused to the Project
Incident Response in April/May

- Immediate incident response
  - Recovery of lost materials
  - Reinstated the site access
  - Revised the construction programme
  - Stakeholder Updates
- Initial Revised programme – Two Months Delay
- ~$1M required for the damage repairs
  (Portion of the cost covered under Principal Arranged Insurance)
Post Incident Project Delivery

- Accelerated the physical works
  - Step by Step Approach
  - Collaborations (Downer/Higgins/TSL/TTOC)
  - Open and proactive communications
- Bridge was Completed and OPENED on 16\textsuperscript{th} June 2017
Conclusion

Focused on the project priorities, and teamed up to

- Improve the network resilience
- minimize the traffic disruption,
- accelerate the physical works,
- respond to the cyclones Debbie and Cook, and
- manage the flood damage.
Questions?