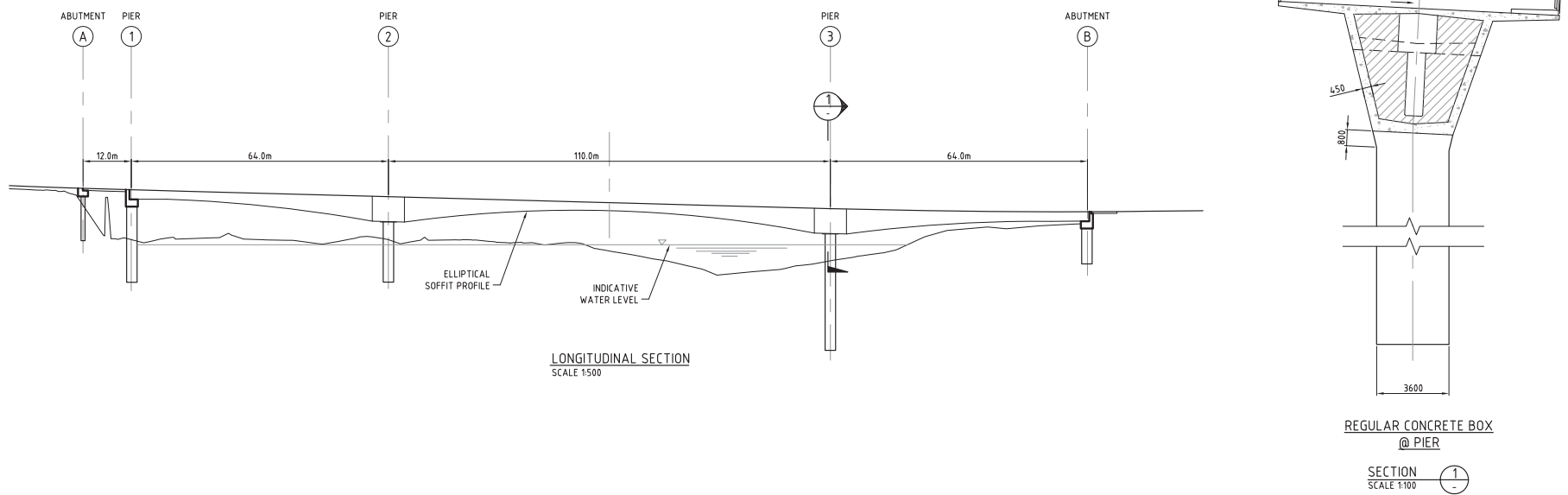


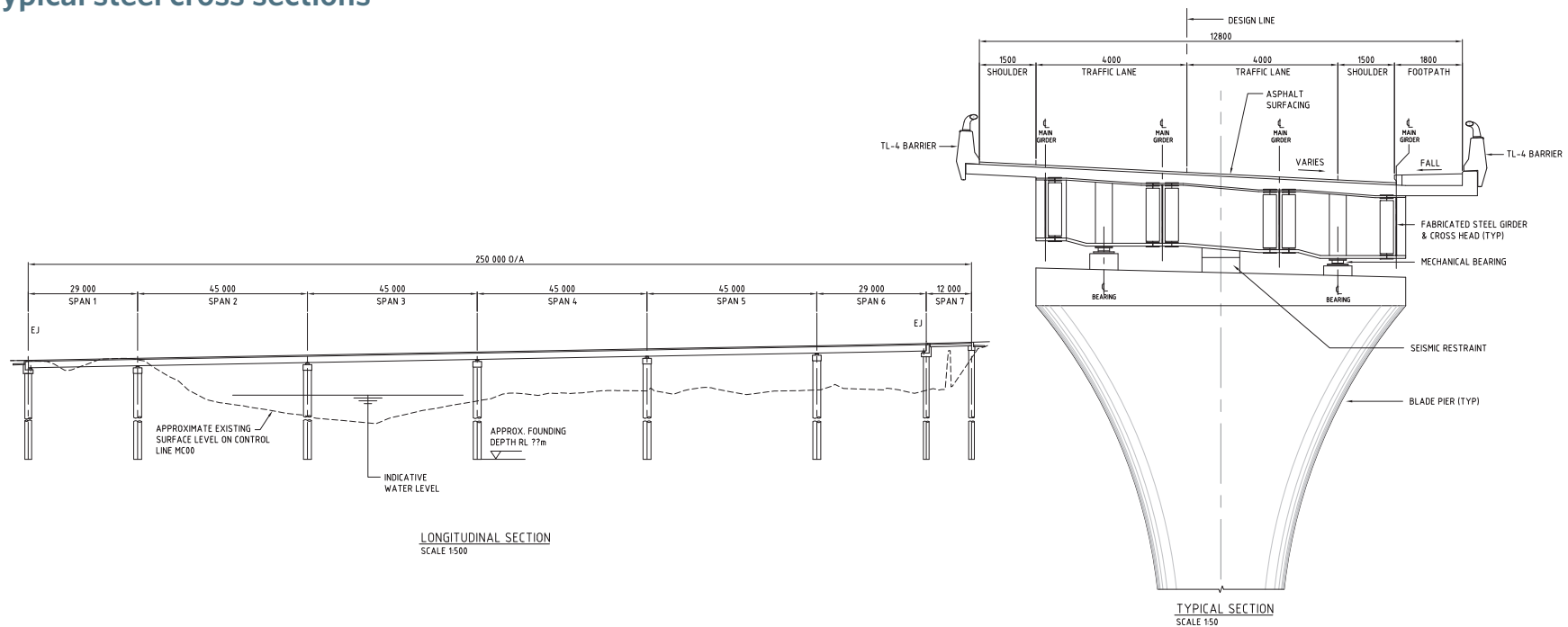
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5. Further investigation: Bridge type – concrete or steel

Typical concrete cross sections



Typical steel cross sections



We also investigated two different bridge types against a number of criteria including value for money against our project objectives and budget, environmental and visual impacts, technical and traffic considerations, and construction duration.

Concrete Bridge

- Cast insitu reinforced concrete box cantilever
- \$ 21.8 million
- 3 piers in the Kawarau River
- Each bridge pier is 3.6m wide
- Bridge piers are spaced at 64m and 110m apart
- 24-30 months to construct

Steel Bridge

- Steel I beam bridge
- \$ 18.5 million
- 5 piers in the Kawarau River
- Each bridge pier is 3.3m wide
- Bridge piers are spaced at 45m apart
- 12-18 months to construct