NOTES:

GENERAL
- Guardrails have been designed to meet the criteria for containment level CL-1 as defined by the Ministry. Guardrails have not been designed to contain errant vehicles.
- Maximum post spacing as shown on drawing.
- For guardrail anchor details, see Ministry standard drawings:
  - STD-EC-030-09 - Composite Precast Deck Panel Details
  - STD-EC-040-08 - Non-Composite Precast Deck Panel Details
  - STD-EC-070-03 - Precast Concrete Slab Details (Sheet 1)

MATERIALS
- Timber: Allowable wood species, lumber grades, grading criteria as per Ministry:
  - Bridge Timber and Lumber Material Standard
- Steel: Posts - Plate to CSA G40.21M
  - Grade 350W (Coated)
  - Grade 350A (Uncoated)
  - Grade 300W (Coated)
  - Or to ASTM A500 Grade C (Coated)
  - A847 (Uncoated)
- Steel fabrication:
  - Shop welding in accordance with CSA W59. Fabricator to be certified for Division 1, 2 or 3.
  - Field welding by company certified to CSA W47.1.
  - Minimum 6mm fillet weld unless otherwise noted.
- Guardrail brackets and post coating to be either:
  - Painted in accordance with Ministry Steel Guardrail Component Paint Standard.
- Hardware:
  - Bolts - ASTM A307 Grade B Galvanized
  - Timber bolts with Econo head and malleable iron washers top and bottom.