

## 10 BRIDGE EVALUATIONS

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Client: Ministry of Transportation and Highways

Description: Sacré-Davey evaluated 10 bridges located in the BC interior and on Vancouver Island for BC's Ministry of Transportation. The purpose of the evaluation is to determine the Live Load Capacity Factor (LLCF) for the bridge girders and the piers for one of the bridges, under 85 tonne permit vehicle (PS) and 6 axle heavy crane (PA) loads. The bridges range from simple span two-lane bridges to multi-span, four-lane and composite girder bridges.

- Hwy 97 – 2 lane, 50 ft span, built in 1950 (evaluated steel girders – 6)
- Hwy 97 – 2 lane, 40 ft span, built in 1950 (evaluated steel girders – 7)
- Hwy 97 – 2 lane, 5 span bridge, built in 1960 (evaluated steel girders for 3 approach spans – 12)
- Hwy 97 – 2 lane, 3 span (42m – 55m – 42m) continuous composite, built in 2003 (evaluated continuous steel plate girders (4) composite with deck)
- Hwy 97 – 2 lane, 2 span (44m – 44m) continuous composite, built in 1990 (evaluated continuous steel plate girders (4) composite with deck)
- Hwy 97 – 2 lane, 2 span (36m – 36m) continuous composite built in 1990 – (evaluated continuous steel plate girders (4) composite with deck)
- Hwy 97 – 2 lane, 121 ft span, built in 1977 (evaluated steel girders – 5)
- Hwy 97 – 2 lane, 60 ft span, timber deck, built in 1964 (evaluated steel girders – 7)
- Hwy 1 – 4 lane, 43 ft span, built in 1974 (evaluated concrete box girders – 16)
- Hwy 681 – 4 lane, continuous 3 span (146ft – 163ft - 100ft), built in 1983 (evaluated continuous steel girders (3) composite with deck; pier cap and columns)