

Case 2 - Railway Viaduct

Technical drawing showing a cross-section of a railway viaduct structure. The drawing includes the following details and dimensions:

- Spans:** 30.00 m (each), 60.00 m (total).
- Distance between catenary masts:** 50.00 m.
- Vertical clearance:** 6.70 m.
- Horizontal clearance:** 28.50 m.
- Structure:** Bridge deck, abutments, and foundations.
- Foundations:** In-situ concrete or cement-bound soil. Foundation has to be adapted to local soil conditions.
- Drainage System:**
 - Dewatering pipe \geq DN 200.
 - Dewatering connection to local dewatering system.
 - Drainage system connection pipe to abutment (see Detail F).
 - Drainage system abutment (see Detail E).
- Backfill:** Backfill according to Detail D Plan S_0_001.
- Noise Barrier:** Noise barrier is only indicative, depends on environmental requirements (centre distance 2.50 m in bridge area and 5.00 m in embankment area).
- Waterproofing:** Waterproofing bridge end (see Detail C).
- Connections:** Connection between superstructure and abutment (see Detail G).
- Details:** A, B, C, D, E, F, G.
- Dimensions:** 1.00, 2.00, 3.00, 4.00, 5.00, 6.00, 7.00, 8.00, 9.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 24.00, 25.00, 26.00, 27.00, 28.00, 29.00, 30.00, 31.00, 32.00, 33.00, 34.00, 35.00, 36.00, 37.00, 38.00, 39.00, 40.00, 41.00, 42.00, 43.00, 44.00, 45.00, 46.00, 47.00, 48.00, 49.00, 50.00, 51.00, 52.00, 53.00, 54.00, 55.00, 56.00, 57.00, 58.00, 59.00, 60.00, 61.00, 62.00, 63.00, 64.00, 65.00, 66.00, 67.00, 68.00, 69.00, 70.00, 71.00, 72.00, 73.00, 74.00, 75.00, 76.00, 77.00, 78.00, 79.00, 80.00, 81.00, 82.00, 83.00, 84.00, 85.00, 86.00, 87.00, 88.00, 89.00, 90.00, 91.00, 92.00, 93.00, 94.00, 95.00, 96.00, 97.00, 98.00, 99.00, 100.00.

substructure view

This diagram shows the substructure of the urban layout. It includes building footprints, walls, and dimensions. Key features include:

- A horizontal road at the top with a width of 20.00.
- Two circular nodes labeled (30) and (40) on the road.
- Dimensions of 5.50 for the wing wall length and 20.00 for the road width.
- Labels A, B, C, and D indicating specific locations or features.
- Arrows indicating directions "from city B" and "to city B".

[illegible]