



Project:

Alignment / Permanent Way / Infrastructure

Regional Rapid
Transit

Design and
Final Design
of
Slab Track

S - Bahn Berlin

1996 - 1997



The 'Stadtbahn Berlin' is a 100 years old 4-lines railway, crossing the center of Berlin in the districts of 'Charlottenburg', 'Tiergarten', 'Mitte' and 'Friedrichshain'. 2 lines are provided for the ICE- and Long Distance Train and 2 lines for the Regional Rapid Transit 'S-Bahn'. This city section of about 8,8 km length is elevated in the first level on about 6 m above ground level on steel bridges (54) and arches on brickwork. The track realisation was decided to be done in slab track. The office 'J. Radermacher GmbH' was entrusted by the constructor joint venture to do:

❶ Design and preparing approval by the authorities of the slab track system 'Rheda Berlin' in co-operation with construction companies and the concerned authorities.

❷ Definition of Construction Principle for all specified implementation on steel bridges, viaducts and transitions between the different types of platforms.

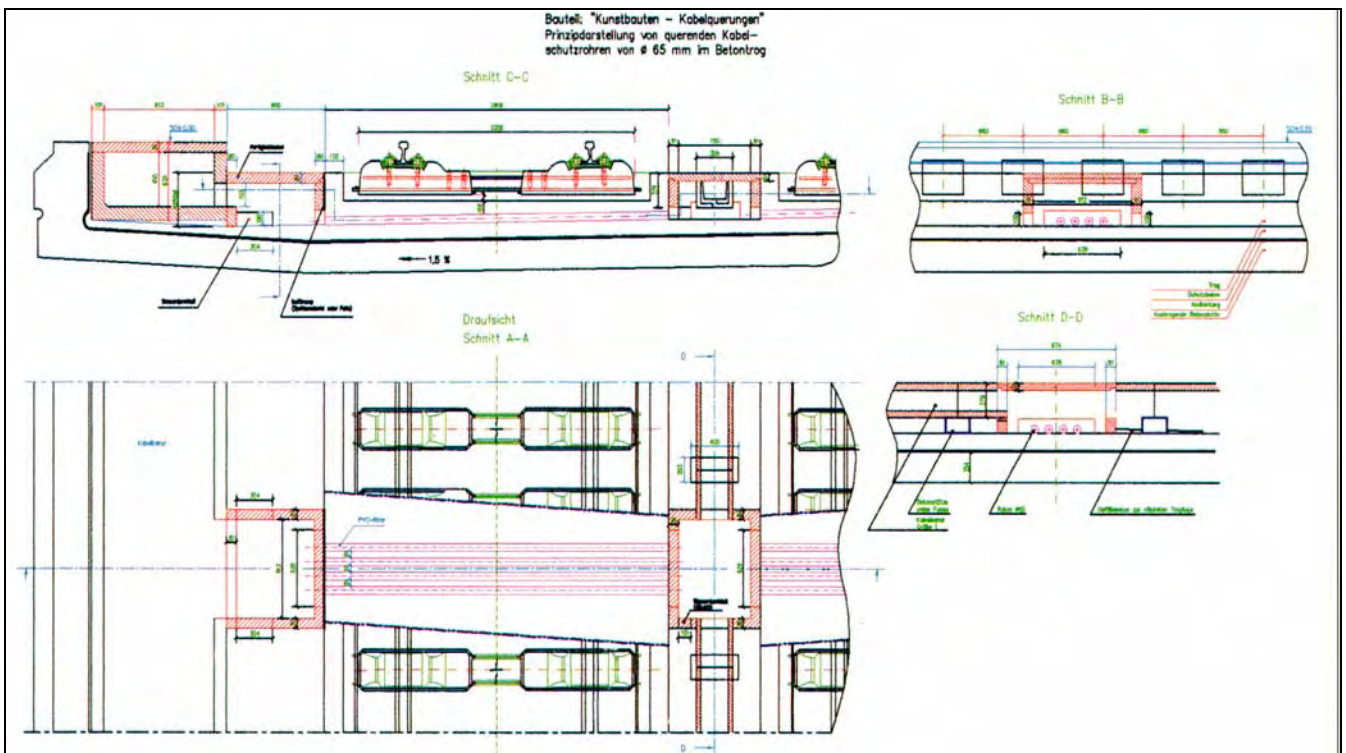
❸ Design of special base plates for non rectangular transitions. The final design is made in preparing:

- situation maps track 3 and track 4 scale 1:250,
- longitudinal sections, scale 1:250 and scale 1:25,
- typical cross sections with elevated track and non elevated track, scale 1:10,
- cross sections in various scales,
- listings of different components:

- ⇒ sleepers
- ⇒ slab sections
- ⇒ individual base plates on transition on viaduct-bridges
- ⇒ anchor sections

- turnouts on slab track,
- as built drawings,
- special design for turnouts on slab track on bridges,
- cable ducts and cable crossings in slab track

Cable ducts, cable crossings in slab track





Distribution of sleepers individual base plates in ogulated transition to bridges

④ Project of fastening of conductor rail support:

The new slab track aimed a new system of fastening of conductor rail support. A project was established to give all geometrical instructions to install the plates.

⑤ Cable duct structures:

Final design for cable ducts and cable crossings.

Slab track on
'Stadtbahn Berlin', S - Bahn

