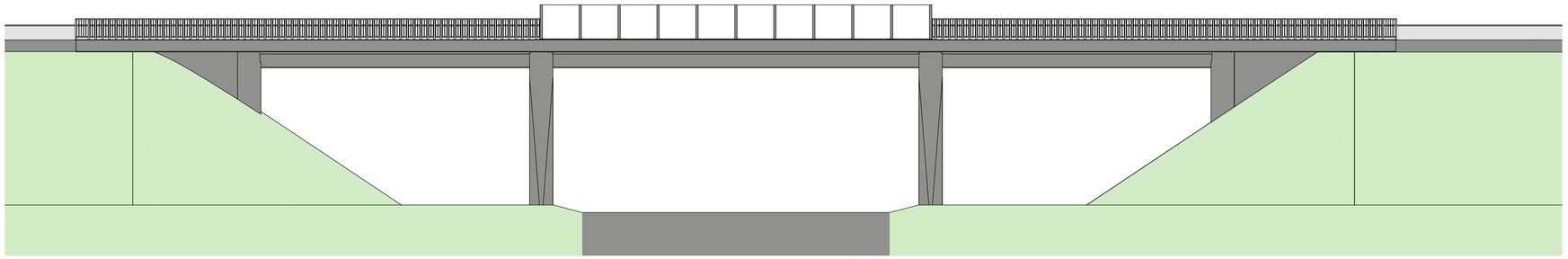
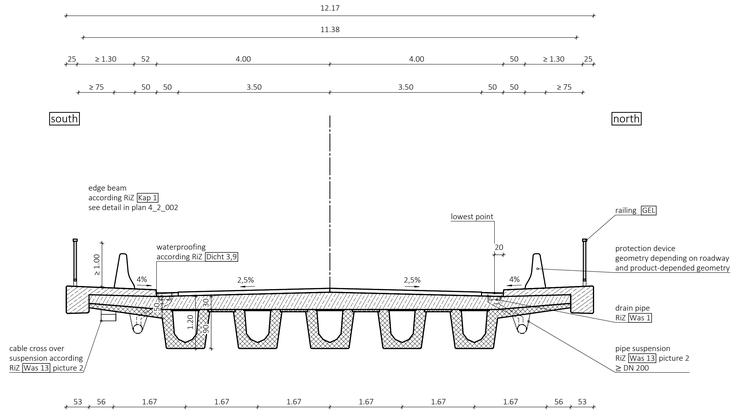
DO NOT SCALE FROM THIS DRAWING

south view scale: 1:100
Case 4 - Road Overpass

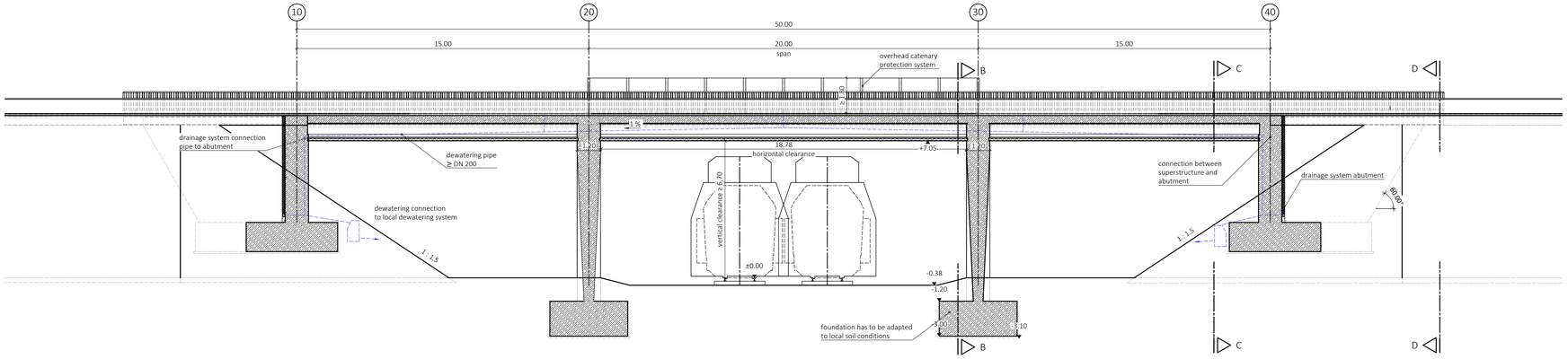


standard cross section without protection wall scale: 1:50
Case 4 - Road Overpass
side fields

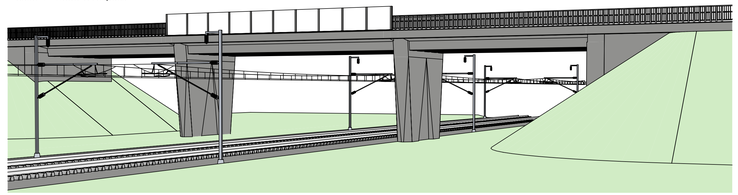
Roadway dimensions are only indicative and depend on local requirements and road type.



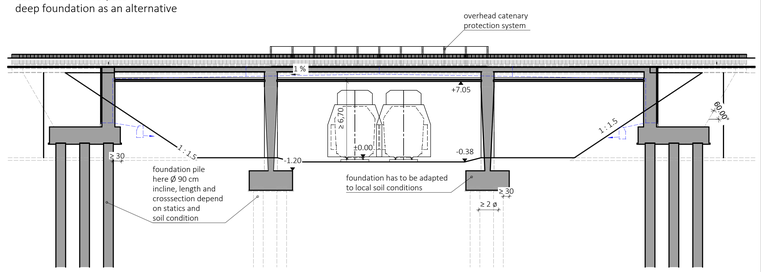
longitudinal section A-A scale: 1:100
Case 4 - Road Overpass



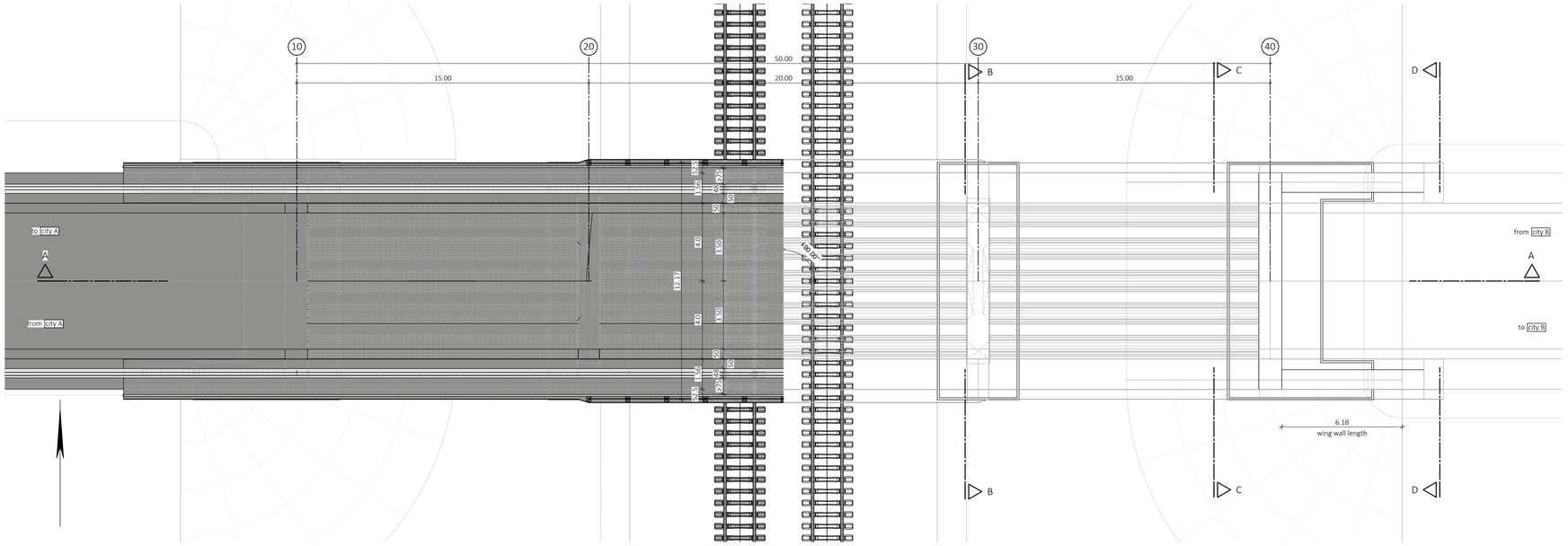
3D view scale: 1:200
Case 4 - Road Overpass



longitudinal section A-A scale: 1:200
Case 4 - Road Overpass
deep foundation as an alternative



plan view scale: 1:100
superstructure view



plan view scale: 1:100
substructure view

building material characteristic values

Following characteristic values for materials are **only minimum** Values due to exposure class[1]. Values can be higher for static proof.

bridge part:	concrete	exposure class	reinforcement	steel
abutment	C30/37	XC4, XD2, XF2, WA	B 500 B	———
wing wall	C30/37	XC4, XD2, XF2, WA	B 500 B	———
founding	C30/37	XC2, XD2, XF2, WA	B 500 B	———
drilling pile (optional)	C30/37	XC2, XD2, XF2, WA	B 500 B	———
piers/ pierwalls	C30/37	XC4, XD2, XF2, WA	B 500 B	———
edge beam	C30/37	XC4, XD1, XF2, WA	B 500 B	———
superstructure in-situ bridge parts	C30/37	XC4, XD1, XF2, WA	B 500 B	———
superstructure prefabricated elements	C30/37	XC4, XD1, XF2, WA	B 500 B prestressing strands[2]	———
railing	———	———	———	S355[3]
granular subbase	C12/15	X0, WA	———	———

[1] further information for assumptions in justification Report (Annex 4_0)

[2] approved prestressing strands according static requirements

[3] according design guideline Rail Baltica

Details for Road overpasses can be taken from RiZ drawings. RiZ stands for "Richtzeichnung" which are specification drawings by the German Federal Ministry of Transport, Building and Urban Development. For details please find the RiZ by downloading the pdf's on the following website: https://www.bast.de/DE/Ingenieurbau/Publikationen/Regelwerke/Entwurf/RIZ-ING.html?nn=613324

Was 1 ; Was 13	specification drawing for drainage systems
Dicht 3 ; Dicht 9	specification drawing for waterproofing
Elt 2	specification drawing for touch protection against contact with overhead cable
Kap 1	specification drawing for edge beams
Gel	specification drawing for railings

Legend
- reinforced concrete
- prefabricated concrete elements
- ballast
- backfill
- drainage concrete stones

This bridge is only an example. Geometry has to be adapted to local conditions.

General requirements acording design guidelines Rail Baltica

sustained operating speed	234 km/h
design speed for feight train	120 km/h
axle load	25 t
All requirements have to be compliant with Rail Baltica guidelines.	

load assumptions according road type differ for each bridge

REVISIONS

No	Date	Description	Originator	Checked	Verified

PROJECT

PROJECT RAIL BALTICA

SBS-Study Master Design

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Co-financed by the Connecting Europe Facility of the European Union

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DEVELOPMENT STAGE

SUBCONSULTANT

ORIGINATOR	CHECKED BY	VERIFIED BY
NAME BaJ	NAME KrL	NAME KrL
DATE 27/09/2019	DATE 27/09/2019	DATE 27/09/2019

DRAWING TITLE
Case 4 - Road Overpass

basic plan
south view, longitudinal section, plan view
standard cross section, 3D view

SHEET NUMBER:

REVISION

SHEET NAME: 4_2_001_C4_Road Overpass_basic plan