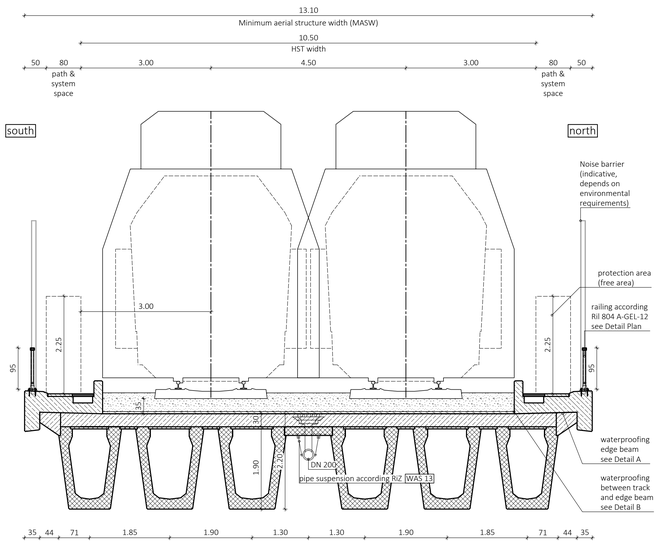
DO NOT SCALE FROM THIS DRAWING

U-beams

standard cross section scale: 1:50

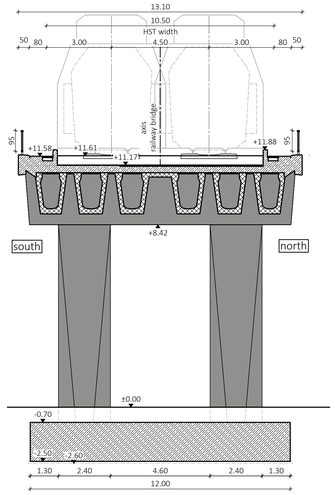
Case 2 - Railway Viaduct

Find details for catenary mast in Plan 5_0_002 "C1+C2 details railway bridges II"



cross section B-B scale: 1:100

pier connection axis 30



3D view scale: 1:200

Case 2 - Railway Viaduct

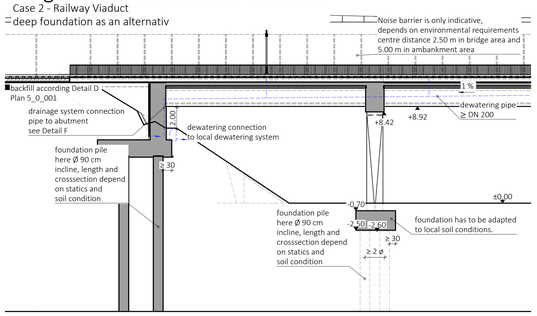
cross section C-C scale: 1:100

abutment front view axis 40

longitudinal section A-A scale: 1:200

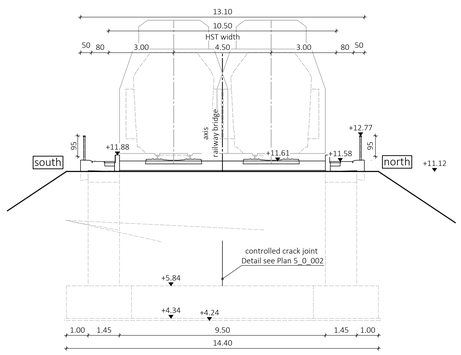
Case 2 - Railway Viaduct

deep foundation as an alternativ



cross section D-D scale: 1:100

abutment rear view axis 40



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 2_0)

[2] approved prestressing strands according static requirements

[3] according design guideline Rail Baltica

Legend

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

Find details in Plan 5_0_001/002 "C1+C2 details railway bridges I + II"

Find details for catenary mast in Plan 5_0_002 "C1+C2 details railway bridges II"

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

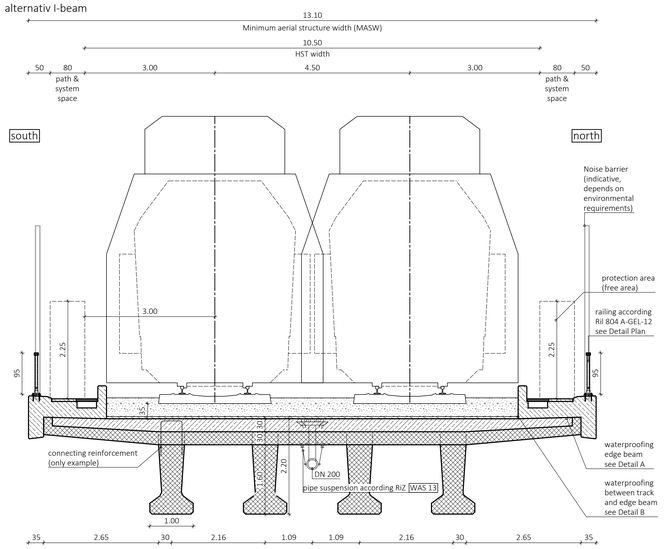
All requirements have to be compliant with Rail Baltica guidelines.

I-beams

standard cross section scale: 1:50

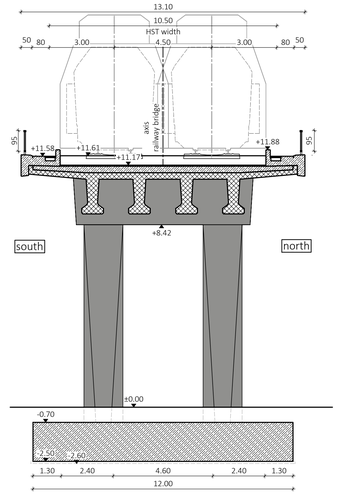
Case 2 - Railway Viaduct
alternativ I-beam

Find details for catenary mast in Plan 5_0_002 "C1+C2 details railway bridges II"



cross section B-B scale: 1:100

pier connection axis 30
alternativ I-beam



3D view scale: 1:200

Case 2 - Railway Viaduct alternativ I-beam

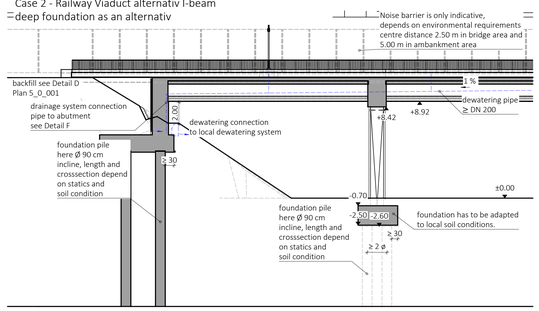
cross section C-C scale: 1:100

abutment front view axis 40
alternativ I-beam

longitudinal section A-A scale: 1:200

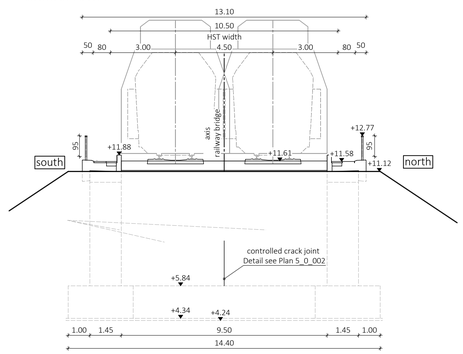
Case 2 - Railway Viaduct alternativ I-beam

deep foundation as an alternativ



cross section D-D scale: 1:100

abutment rear view axis 40
alternativ I-beam



REVISIONS

No	Date	Description	Originator	Checked	Verified

PROJECT

PROJECT RAIL BALTICA

SBS-Study Master Design

CLIENT

RB Rail AS
K. Valdemara 8-7
LV-1010 Riga
Latvia

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

CONTRACTOR

RB Rail AS
K. Valdemara 8-7
LV-1010 Riga
Latvia

ENGINEER

MKP GmbH
info hannover@marxkrontal.com
www.marxkrontal.com
Uhlemeyerstraße 9+11
30175 Hannover
T +49 511 515154-0

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DRAWING TITLE

Case 2 - Railway Viaduct

cross sections
details

SHEET NUMBER:

SHEET NAME: 2_2_002_C2_Railway Viaduct_additional plan

REVISION