

Design Guidelines

Table of Contents and version management

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1. Document encoding

Rail Baltica Design Guidelines (DG) document titles follow the structure AAAA-BBB-XXX-YYYY_DocumentTitle:

- AAAA: RBDG;
- BBB:
 - MAN – Manual, used for documents that form the DG and contain important information for the design process (for example – document on Railway Superstructure - Track);
 - TPL – Template, used for templates prepared for DG (for example – templates for the Change Management Procedure);
 - DWG – Drawing, used for technical drawings of DG (for example – cross-section of main line embankment);
 - RVT – Revit file drawings, used for architectural drawings
 - INF – Information, used for supporting information for DG implementation (for example – table of contents and version management);
 - DER – Derogation, used for documents explaining the specific accepted derogation from the DG;
 - CMF – Change Management Form, used for Change Management process;
 - TSA – Technical Study from applicant, used for Change Management process;
 - TSR – Technical Study from RB Rail, used for Change Management process;
- XXX: document number (for example – 014 for Railway Superstructure - Track);
- YYYY: version number (for example – 0101 for version 1.1);
- Document Title: title of the document.

For example, a file can be called RBDG-MAN-014-0101_RailwaySuperstructure-Track.

2. DG documents

1. RBDG-INF-001 Table of Contents and version management
2. RBDG-INF-002 BIM Strategy Framework
3. RBDG-INF-003 Design Guidelines Clarifications
4. RBDG-INF-004 Design Guidelines Derogations
5. RBDG-MAN-011 Change management procedure
6. RBDG-MAN-012 General requirements
7. RBDG-MAN-013 Railway alignment
8. RBDG-MAN-014 Railway superstructure – track
9. RBDG-MAN-015 Railway substructure, Part 1 – embankments and earthworks
10. RBDG-MAN-016 Railway substructure, Part 2 – hydraulic, drainage and culverts
11. RBDG-MAN-017 Railway substructure, Part 3 – bridges, overpasses, tunnels and similar structures
12. RBDG-MAN-018 Railway energy, Part 1 – traction power system
13. RBDG-MAN-019 Railway energy, Part 2 – catenary
14. RBDG-MAN-020 Railway energy, Part 3 – non-traction power supply
15. RBDG-MAN-021 Railway energy, Part 4 – electromagnetic compatibility
16. RBDG-MAN-022 Railway Control-Command Signalling system
17. RBDG-MAN-023 Railway telecommunications system
18. RBDG-MAN-024 Railway SCADA
19. RBDG-MAN-025 Infrastructure facilities
20. RBDG-MAN-026 Stations and passenger platforms
21. RBDG-MAN-027 Environment
22. RBDG-MAN-028 Mechanical Electrical Plumbing in tunnel
23. RBDG-MAN-029 Adaption to Climate Change
24. RBDG-MAN-030 Building Information Management (BIM) Employers Information Requirements
25. RBDG-MAN-031 Architectural and landscaping, visual design requirements
26. RBDG-MAN-032 RAMS
27. RBDG-MAN-033 BIM Manual
28. RBDG-MAN-034 CAD Standards
29. RBDG-MAN-035 Codification & Data Management
30. RBDG-MAN-036 Security requirements and guidance for designers of Rail Baltica international stations
31. RBDG-MAN-037 Security requirements and guidance for designers of Rail Baltica regional stations
32. RBDG-MAN-038 Geodetic Network Establishment for design stage of Rail Baltica high speed railway
33. RBDG-MAN-039 Geodetic Network Establishment for construction stage of Rail Baltica high speed railway
34. RBDG-MAN-040 Digital Information Requirements for construction and handover stages
35. RBDG-MAN-041 Requirements for site investigation (geological and hydrogeological investigation)

36. Cross-sections:

A. Main line general cross-sections:

- 1) RBDG-DWG-001 Main line embankment – Double track
- 2) RBDG-DWG-002 Main line embankment – Double track – High height (>12m)
- 3) RBDG-DWG-003 Main line cut – Double track
- 4) RBDG-DWG-004 Main line cut – Double track – Wet cut (with water table)
- 5) RBDG-DWG-005 Main line cut – Double track – Dry cut with high height (>12m) without water table
- 6) RBDG-DWG-006 Main line cut in rock formation – Double track – Dry cut with high height (>12m) with pebble trap
- 7) RBDG-DWG-007 Main line – next to an operational railway line
- 8) RBDG-DWG-008 Main line embankment – Simple track
- 9) RBDG-DWG-009 Main line embankment – Passing loop at grade
- 10) RBDG-DWG-010 International Station
- 11) RBDG-DWG-011 Depot / Multimodal Terminal
- 12) RBDG-DWG-012 Main line – next to an operational railway line with limited right of way
- 13) RBDG-DWG-013 Main line – double track in curve
- 14) RBDG-DWG-014 Depot / Multimodal Terminal

B. Specific cross sections

- 1) RBDG-DWG-020 Main line embankment – Acoustic screen on embankment
- 2) RBDG-DWG-021 Main line embankment – Acoustic screen on natural ground
- 3) RBDG-DWG-022 Main line embankment – Embankment in flood plain
- 4) RBDG-DWG-023 Detail – Draining Layer
- 5) RBDG-DWG-024 Detail – Protective Layer
- 6) RBDG-DWG-025 Detail – Draining Spur
- 7) RBDG-DWG-026 Main line embankment – Acoustic protection by merlon

C. Technical block

- 1) RBDG-DWG-030 Technical block – Bridge with span
- 2) RBDG-DWG-031 Technical block – Culvert with large thickness of cover materials
- 3) RBDG-DWG-032 Technical block – Culvert with low thickness of cover materials

D. Drainage

- 1) RBDG-DWG-033 Drainage – Pipe elevation and plan view
- 2) RBDG-DWG-034 Drainage – Pipe under ground level
- 3) RBDG-DWG-035 Drainage – Pipe at grade
- 4) RBDG-DWG-036 Drainage – Headwall
- 5) RBDG-DWG-037 Drainage – Pipe under ground level with low thickness of cover materials
- 6) RBDG-DWG-038 Drainage – Pipe at grade with low thickness of cover materials

E. Anti-penetration protection device for highway

- 1) RBDG-DWG-050 Twinning with high traffic roads, Railway lower than the roadway or higher with a height difference $< 3\text{m}$, 1st case: $2\text{m} \leq L1 \leq 6\text{m}$ – solution 1 for twinning area close to 2m
 - 2) RBDG-DWG-051 Twinning with high traffic roads, Railway lower than the roadway or higher with a height difference $< 3\text{m}$, 1st case: $2\text{m} \leq L1 \leq 6\text{m}$ – solution 2 for twinning area close to 6m
 - 3) RBDG-DWG-052 Twinning with high traffic roads, Railway lower than the roadway or higher with a height difference $< 3\text{m}$, 1st case: $2\text{m} \leq L1 \leq 6\text{m}$ – solution 3 for situation between solution 1 and 2
 - 4) RBDG-DWG-053 Twinning with high traffic roads, Railway lower than the roadway or higher with a height difference $< 3\text{m}$, 2nd case: $6\text{m} \leq L1 \leq 8\text{m}$
 - 5) RBDG-DWG-054 Twinning with high traffic roads, Railway lower than the roadway or higher with a height difference $< 3\text{m}$, 3rd case: $8\text{m} \leq L1 \leq 17\text{m}$ – solution recommended
 - 6) RBDG-DWG-055 Twinning with high traffic roads, Railway lower than the roadway or higher with a height difference $< 3\text{m}$, 3rd case: $8\text{m} \leq L1 \leq 17\text{m}$ – variant solution
 - 7) RBDG-DWG-056 Twinning with high traffic roads, Railway lower than the roadway or higher with a height difference $< 3\text{m}$, 4th case: $17\text{m} \leq L1 \leq 30\text{m}$
 - 8) RBDG-DWG-057 Twinning with high traffic roads, Railway lower than the roadway or higher with a height difference $< 3\text{m}$, 5th case: $30\text{m} \leq L1 \leq 50\text{m}$
 - 9) RBDG-DWG-058 Twinning with high traffic roads, Roadway at least 3m lower than the railway
- F. Anti-Penetration protection device for secondary road
- 1) RBDG-DWG-059 Twinning with secondary roads, High speed line with height difference $\leq 1\text{m}$, Solution 1: Protection by merlon, Road on embankment
 - 2) RBDG-DWG-060 Twinning with secondary roads, High speed line with height difference $\leq 1\text{m}$, Solution 1: Protection by merlon, Road on low cut or low embankment
 - 3) RBDG-DWG-061 Twinning with secondary roads, High speed line with height difference $\leq 1\text{m}$, Solution 1: Protection by merlon, Road in cut $> 0,5\text{m}$
 - 4) RBDG-DWG-062 Twinning with secondary roads, High speed line with height difference $\leq 1\text{m}$, Solution 2: Protection with safety barrier N2 level, Road on embankment
 - 5) RBDG-DWG-063 Twinning with secondary roads, High speed line with height difference $\leq 1\text{m}$, Solution 2: Protection with safety barrier N2 level, Road on low cut or low embankment
 - 6) RBDG-DWG-064 Twinning with secondary roads, High speed line with height difference $\leq 1\text{m}$, Solution 2: Protection with safety barrier N2 level, Road in cut $> 0,5\text{m}$
- G. High speed line railway with maintenance road
- 1) RBDG-DWG-065 High speed line railway with maintenance road
- H. Structures

- 1) RBDG-DWG-070 Viaduct – cross section
- 2) RBDG-DWG-071 Overpass – cross section
- 3) RBDG-DWG-072 Overpass – elevation
- 4) RBDG-DWG-073 Tunnel or cut and cover – cross section

37. Templates:

- A. RBDG-TPL-010 Change Management Form
- B. RBDG-TPL-011 Technical study from applicant for change management form
- C. RBDG-TPL-012 Technical study from RB Rail for change management form
- D. RBDG-TPL-013 BIM Execution Plan
- E. RBDG-TPL-014 Task Information Delivery Plan
- F. RBDG-TPL-015 Model Information Delivery Plan
- G. RBDG-TPL-016 Codification Tables
- H. RBDG-TPL-017 QEX Report Template
- I. RBDG-TPL-018 QTO Report Template
- J. RBDG-TPL-019 BIM Objects Attributes Matrix
- K. RBDG-TPL-020 BIM Delivery Report Template
- L. RBDG-TPL-021 Data Drop Template
- M. RBDG-TPL-022 QAQC BIM/CAD Checklist Template
- N. RBDG-TPL-023 Clash Detection Report
- O. RBDG-TPL-024 BIM Objects LoG Matrix
- P. RBDG-TPL-025 CAD Template

3. Version management

3.1 Versions in force list

Document	Version	Date	Valid from
RBDG-INF-001	0150	04.02.2025	04.02.2025
RBDG-INF-002	REMOVED		
RBDG-INF-003	0117	31.07.2023	31.07.2023
RBDG-INF-004	0130	16.12.2024	16.12.2024
RBDG-MAN-011	0106	27.05.2024	27.06.2024
RBDG-MAN-012	0112	23.07.2024	01.10.2024
RBDG-MAN-013	0106	23.07.2024	01.10.2024
RBDG-MAN-014	0107	16.04.2024	13.05.2024
RBDG-MAN-014A	0102	23.07.2024	01.10.2024
RBDG-MAN-014B	0104	27.06.2023	31.07.2023
RBDG-MAN-014C	0102	23.07.2024	01.10.2024
RBDG-MAN-014D	0102	26.11.2024	04.02.2025
RBDG-MAN-014E	0102	15.10.2024	03.12.2024
RBDG-MAN-015	0105	09.03.2021	09.03.2021
RBDG-MAN-016	0109	31.05.2022	22.06.2022
RBDG-MAN-017	0112	27.06.2023	31.07.2023
RBDG-MAN-018	0102	19.04.2022	09.05.2022
RBDG-MAN-019	0103	17.03.2020	27.04.2020
RBDG-MAN-020	0102	19.03.2022	09.05.2022

RBDG-MAN-021	0101	19.03.2018	N/A - First version
RBDG-MAN-022	0103	27.06.2023	31.07.2023
RBDG-MAN-023	0102	27.06.2023	31.07.2023
RBDG-MAN-024	0102	19.03.2018	09.05.2022
RBDG-MAN-025	0107	22.11.2022	28.11.2022
RBDG-MAN-026	0104	18.01.2022	07.01.2022
RBDG-MAN-027	0106	27.06.2023	31.07.2023
RBDG-MAN-028	0101	19.03.2018	N/A - First version
RBDG-MAN-029	0103	06.09.2024	01.10.2024
RBDG-MAN-030	0107	14.11.2023	18.12.2023
RBDG-MAN-031	0109	27.06.2023	31.07.2023
RBDG-MAN-0310	0101	16.12.2019	16.12.2019 (first version)
RBDG-MAN-031A	0102	12.05.2023	01.06.2023
RBDG-MAN-031B	0108	21.11.2023	04.12.2023
RBDG-MAN-031C	0101	16.12.2019	16.12.2019 (first version)
RBDG-MAN-031D	0102	13.12.2021	13.12.2021
RBDG-MAN-031E	0101	16.12.2019	16.12.2019 (first version)
RBDG-MAN-031F	0104	27.06.2023	31.07.2023
RBDG-MAN-031G	0102	21.12.2020	21.12.2020
RBDG-MAN-032	0101	27.03.2018	N/A - First version
RBDG-MAN-033	0103	22.11.2022	28.11.2022
RBDG-MAN-034	0102	22.11.2022	28.11.2022
RBDG-MAN-035	0103	12.12.2023	29.12.2023
RBDG-MAN-036	0103	13.07.2020	13.07.2020
RBDG-MAN-037	0100	08.03.2022	28.03.2022 (first version)

RBDG-MAN-038	0101	06.09.2024	01.10.2024
RBDG-MAN-039	0101	06.09.2024	01.10.2024
RBDG-MAN-040	0102	06.09.2024	01.10.2024
RBDG-MAN-041	0100	02.05.2024	02.07.2024 (first version)

Drawing	Version	Date	Valid from
RBDG-DWG-001	A6	23.11.2020	09.03.2021
RBDG-DWG-002	A5	23.11.2020	09.03.2021
RBDG-DWG-003	A5	23.11.2020	09.03.2021
RBDG-DWG-004	A5	23.11.2020	09.03.2021
RBDG-DWG-005	A5	23.11.2020	09.03.2021
RBDG-DWG-006	A5	23.11.2020	09.03.2021
RBDG-DWG-007	A6	23.11.2020	09.03.2021
RBDG-DWG-008	A6	23.11.2020	09.03.2021
RBDG-DWG-009	A8	23.11.2020	09.03.2021
RBDG-DWG-010	A5	03.03.2023	23.03.2023
RBDG-DWG-011	A4	26.11.2024	04.02.2025
RBDG-DWG-012	A4	23.11.2020	09.03.2021
RBDG-DWG-013	A1	N/A – First version	04.02.2025
RBDG-DWG-014	A1	N/A – First version	04.02.2025
RBDG-DWG-020	A6	23.11.2020	09.03.2021
RBDG-DWG-021	A6	23.11.2020	09.03.2021
RBDG-DWG-022	A7	23.11.2020	09.03.2021
RBDG-DWG-023	A4	23.11.2020	09.03.2021
RBDG-DWG-024	A4	23.11.2020	09.03.2021

RBDG-DWG-025	A4	23.11.2020	09.03.2021
RBDG-DWG-026	A5	23.11.2020	09.03.2021
RBDG-DWG-030	A3	10.01.2018	N/A - First version
RBDG-DWG-031	A3	10.01.2018	N/A - First version
RBDG-DWG-032	A3	10.01.2018	N/A - First version
RBDG-DWG-033	A5	23.11.2020	09.03.2021
RBDG-DWG-034	A3	10.01.2018	N/A - First version
RBDG-DWG-035	A3	10.01.2018	N/A - First version
RBDG-DWG-036	A3	10.01.2018	N/A - First version
RBDG-DWG-037	A1	10.01.2018	N/A - First version
RBDG-DWG-038	A1	20.10.2017	N/A - First version
RBDG-DWG-050	A2	10.01.2018	N/A - First version
RBDG-DWG-051	A2	10.01.2018	N/A - First version
RBDG-DWG-052	A2	10.01.2018	N/A - First version
RBDG-DWG-053	A2	10.01.2018	N/A - First version
RBDG-DWG-054	A3	10.01.2018	N/A - First version
RBDG-DWG-055	A2	10.01.2018	N/A - First version
RBDG-DWG-056	A2	10.01.2018	N/A - First version
RBDG-DWG-057	A2	10.01.2018	N/A - First version
RBDG-DWG-058	A3	16.03.2018	N/A - First version
RBDG-DWG-059	A3	10.01.2018	N/A - First version
RBDG-DWG-060	A3	10.01.2018	N/A - First version
RBDG-DWG-061	A2	15.11.2017	N/A - First version
RBDG-DWG-062	A3	10.01.2018	N/A - First version
RBDG-DWG-063	A3	10.01.2018	N/A - First version

RBDG-DWG-064	A3	10.01.2018	N/A - First version
RBDG-DWG-065	A2	06.12.2021	06.12.2021
RBDG-DWG-070	A7	16.10.2020	21.12.2020
RBDG-DWG-071	A5	28.06.2023	31.07.2023
RBDG-DWG-072	A4	07.06.2021	07.06.2021
RBDG-DWG-073	A7	23.11.2020	09.03.2021
RBDG-RVT-001	0101	16.12.2019	16.12.2019
RBDG-RVT-002	0101	16.12.2019	16.12.2019
RBDG-RVT-003	0101	16.12.2019	16.12.2019
RBDG-RVT-004	0101	16.12.2019	16.12.2019
RBDG-RVT-005	0101	16.12.2019	16.12.2019
RBDG-RVT-006	0101	16.12.2019	16.12.2019
RBDG-RVT-007	0101	16.12.2019	16.12.2019
RBDG-RVT-008	0101	16.12.2019	16.12.2019
RBDG-RVT-009	0101	16.12.2019	16.12.2019
RBDG-RVT-010	0101	16.12.2019	16.12.2019

Template	Version	Date	Valid from
RBDG-TPL-010	0101	15.02.2018	N/A - First version
RBDG-TPL-011	0101	15.02.2018	N/A - First version
RBDG-TPL-012	0101	15.02.2018	N/A - First version
RBDG-TPL-013	0102	16.12.2019	16.12.2019
RBDG-TPL-014	0102	16.12.2019	16.12.2019
RBDG-TPL-015	0102	16.12.2019	16.12.2019
RBDG-TPL-016	0103	21.12.2020	21.12.2020

RBDG-TPL-017	0102	21.12.2020	21.12.2020
RBDG-TPL-018	0102	21.12.2020	21.12.2020
RBDG-TPL-019	0103	21.12.2020	21.12.2020
RBDG-TPL-020	0101	01.04.2019	01.04.2019
RBDG-TPL-021	0101	01.04.2019	01.04.2019
RBDG-TPL-022	0101	01.04.2019	01.04.2019
RBDG-TPL-023	0101	01.04.2019	01.04.2019
RBDG-TPL-024	0102	21.12.2020	21.12.2020
RBDG-TPL-025	0101	16.12.2019	16.12.2019

3.2 Old versions list

Document	Version	Valid from	Valid up to
RBDG-MAN-011	0101	N/A – First version	09.08.2018
RBDG-MAN-011	0102	10.08.2018	17.12.2018
RBDG-MAN-014	0101	N/A – First version	17.12.2018
RBDG-MAN-015	0101	N/A – First version	17.12.2018
RBDG-MAN-012	0101	N/A – First version	31.03.2019
RBDG-MAN-013	0101	N/A – First version	31.03.2019
RBDG-MAN-014	0102	18.12.2018	31.03.2019
RBDG-MAN-016	0101	N/A – First version	31.03.2019
RBDG-MAN-017	0101	N/A – First version	31.03.2019
RBDG-MAN-022	0101	N/A – First version	31.03.2019
RBDG-MAN-025	0101	N/A – First version	31.03.2019

Document	Version	Valid from	Valid up to
RBDG-MAN-029	0101	N/A – First version	31.03.2019
RBDG-MAN-030	0101	N/A – First version	31.03.2019
RBDG-MAN-012	0102	01.04.2019	20.05.2019
RBDG-MAN-012	0103	21.05.2019	16.12.2019
RBDG-MAN-015	0102	18.12.2018	16.12.2019
RBDG-MAN-016	0102	01.04.2019	16.12.2019
RBDG-MAN-017	0102	01.04.2019	16.12.2019
RBDG-MAN-019	0101	N/A - First version	16.12.2019
RBDG-MAN-026	0101	N/A - First version	16.12.2019
RBDG-MAN-027	0101	N/A - First version	16.12.2019
RBDG-MAN-030	0102	01.04.2019	16.12.2019
RBDG-MAN-031	0102	18.04.2019	16.12.2019
RBDG-MAN-012	0104	16.12.2019	08.01.2020
RBDG-MAN-031	0103	16.12.2019	05.02.2020
RBDG-MAN-016	0103	16.12.2019	27.04.2020
RBDG-MAN-019	0102	16.12.2019	27.04.2020
RBDG-MAN-031B	0101	16.12.2019	27.04.2020
RBDG-MAN-036	0101	16.12.2019	27.04.2020
RBDG-MAN-013	0102	01.04.2019	13.07.2020
RBDG-MAN-014	0103	01.04.2019	13.07.2020
RBDG-MAN-017	0103	16.12.2019	13.07.2020
RBDG-MAN-025	0102	01.04.2019	13.07.2020
RBDG-MAN-036	0102	27.04.2020	13.07.2020
RBDG-MAN-014	0104	13.07.2020	21.12.2020

Document	Version	Valid from	Valid up to
RBDG-MAN-015	0103	16.12.2019	21.12.2020
RBDG-MAN-016	0104	27.04.2020	21.12.2020
RBDG-MAN-017	0104	13.07.2020	21.12.2020
RBDG-MAN-027	0102	16.12.2019	21.12.2020
RBDG-MAN-030	0103	16.12.2019	21.12.2020
RBDG-MAN-031B	0102	27.04.2020	21.12.2020
RBDG-MAN-031F	0101	16.12.2019	21.12.2020
RBDG-MAN-031G	0101	16.12.2019	21.12.2020
RBDG-MAN-012	0105	08.01.2020	09.03.2021
RBDG-MAN-013	0103	13.07.2020	09.03.2021
RBDG-MAN-014D	0100	21.12.2020	09.03.2021
RBDG-MAN-015	0104	21.12.2020	09.03.2021
RBDG-MAN-017	0105	21.12.2020	09.03.2021
RBDG-MAN-025	0103	13.07.2020	09.03.2021
RBDG-MAN-027	0103	21.12.2020	09.03.2021
RBDG-MAN-013	0104	09.03.2021	07.06.2021
RBDG-MAN-014A	0100	21.12.2020	07.06.2021
RBDG-MAN-017	0106	09.03.2021	07.06.2021
RBDG-MAN-025	0104	09.03.2021	07.06.2021
RBDG-MAN-031F	0102	21.12.2020	07.06.2021
RBDG-MAN-012	0106	09.03.2021	10.10.2021
RBDG-MAN-027	0104	09.03.2021	10.10.2021
RBDG-MAN-031	0104	05.02.2020	10.10.2021
RBDG-MAN-012	0107	11.10.2021	05.12.2021

Document	Version	Valid from	Valid up to
RBDG-MAN-016	0105	21.12.2020	05.12.2021
RBDG-MAN-017	0107	07.06.2021	05.12.2021
RBDG-MAN-025	0105	31.05.2021	05.12.2021
RBDG-MAN-026	0102	16.12.2019	12.12.2021
RBDG-MAN-031B	0103	21.12.2020	12.12.2021
RBDG-MAN-031D	0101	16.12.2019	12.12.2021
RBDG-MAN-026	0103	12.12.2021	07.01.2022
RBDG-MAN-012	0108	06.12.2021	27.03.2022
RBDG-MAN-031	0105	11.10.2020	27.03.2022
RBDG-MAN-030	0104	21.12.2020	27.03.2022
RBDG-MAN-033	0101	16.12.2019	27.03.2022
RBDG-MAN-016	0106	06.12.2021	27.03.2022
RBDG-MAN-014B	0100	21.12.2020	27.03.2022
RBDG-MAN-014B	0101	28.03.2022	08.05.2022
RBDG-MAN-016	0107	28.03.2022	08.05.2022
RBDG-MAN-017	0108	06.12.2021	08.05.2022
RBDG-MAN-018	0101	19.03.2018	08.05.2022
RBDG-MAN-020	0101	19.03.2018	08.05.2022
RBDG-MAN-024	0101	19.03.2018	08.05.2022
RBDG-MAN-031	0106	28.03.2022	08.05.2022
RBDG-MAN-016	0108	09.05.2022	21.06.2022
RBDG-MAN-017	0109	09.05.2022	01.09.2022
RBDG-MAN-025	0106	06.12.2021	27.11.2022
RBDG-MAN-030	0105	28.03.2022	27.11.2022

Document	Version	Valid from	Valid up to
RBDG-MAN-031B	0104	13.12.2021	27.11.2022
RBDG-MAN-033	0102	28.03.2022	27.11.2022
RBDG-MAN-034	0101	16.12.2019	27.11.2022
RBDG-MAN-035	0101	16.12.2019	27.11.2022
RBDG-MAN-014	0105	21.12.2020	01.02.2023
RBDG-MAN-031B	0105	28.11.2022	22.03.2023
RBDG-MAN-011	0103	18.12.2018	22.03.2023
RBDG-MAN-031	0107	09.05.2022	28.05.2023
RBDG-MAN-031A	0101	16.12.2019	28.05.2023
RBDG-MAN-031B	0106	23.04.2023	28.05.2023
RBDG-MAN-014B	0102	09.05.2022	30.07.2023
RBDG-MAN-023	0101	19.03.2018	30.07.2023
RBDG-MAN-017	0110	02.09.2022	30.07.2023
RBDG-MAN-022	0102	01.04.2019	30.07.2023
RBDG-MAN-027	0105	11.10.2021	30.07.2023
RBDG-MAN-031F	0103	07.06.2021	30.07.2023
RBDG-MAN-031	0108	01.06.2023	30.07.2023
RBDG-MAN-031B	0107	01.06.2023	03.12.2023
RBDG-MAN-030	0106	28.11.2022	17.12.2023
RBDG-MAN-011	0104	23.03.2023	28.12.2023
RBDG-MAN-014C	0100	21.12.2020	28.12.2023
RBDG-MAN-035	0102	28.11.2022	28.12.2023
RBDG-MAN-040	0100	28.11.2022	28.12.2023
RBDG-MAN-012	0110	31.07.2023	24.03.2024

Document	Version	Valid from	Valid up to
RBDG-MAN-014B	0103	31.07.2023	24.03.2024
RBDG-MAN-017	0111	31.07.2023	24.03.2024
RBDG-MAN-014	0106	06.02.2023	12.05.2024
RBDG-MAN-011	0105	29.12.2023	26.06.2024
RBDG-MAN-040	0101	29.12.2023	30.09.2024
RBDG-MAN-039	0100	28.11.2022	30.09.2024
RBDG-MAN-038	0100	28.11.2022	30.09.2024
RBDG-MAN-029	0102	01.04.2019	30.09.2024
RBDG-MAN-013	0105	07.06.2021	30.09.2024
RBDG-MAN-012	0111	28.03.2022	30.09.2024
RBDG-MAN-014A	0101	07.06.2021	30.09.2024
RBDG-MAN-014C	0101	29.12.2023	30.09.2024
RBDG-MAN-014B	0104	31.07.2023	02.12.2024
RBDG-MAN-014E	0101	13.05.2024	02.12.2024
RBDG-MAN-014D	0101	09.03.2021	03.02.2025

Drawing	Version	Valid from	Valid up to
RBDG-DWG-070	A4	N/A - First version	16.12.2019
RBDG-DWG-071	A3	N/A - First version	16.12.2019
RBDG-DWG-073	A5	N/A - First version	16.12.2019
RBDG-DWG-070	A5	16.12.2019	13.07.2020
RBDG-DWG-070	A6	13.07.2020	21.12.2020
RBDG-DWG-001	A5	N/A - First version	09.03.2021
RBDG-DWG-002	A5	N/A - First version	09.03.2021

RBDG-DWG-003	A4	N/A - First version	09.03.2021
RBDG-DWG-004	A4	N/A - First version	09.03.2021
RBDG-DWG-005	A4	N/A - First version	09.03.2021
RBDG-DWG-006	A4	N/A - First version	09.03.2021
RBDG-DWG-007	A5	N/A - First version	09.03.2021
RBDG-DWG-008	A5	N/A - First version	09.03.2021
RBDG-DWG-009	A7	N/A - First version	09.03.2021
RBDG-DWG-010	A3	N/A - First version	09.03.2021
RBDG-DWG-011	A2	N/A - First version	09.03.2021
RBDG-DWG-012	A3	N/A - First version	09.03.2021
RBDG-DWG-020	A5	N/A - First version	09.03.2021
RBDG-DWG-021	A5	N/A - First version	09.03.2021
RBDG-DWG-022	A6	N/A - First version	09.03.2021
RBDG-DWG-023	A3	N/A - First version	09.03.2021
RBDG-DWG-024	A3	N/A - First version	09.03.2021
RBDG-DWG-025	A3	N/A - First version	09.03.2021
RBDG-DWG-026	A4	N/A - First version	09.03.2021
RBDG-DWG-033	A4	N/A - First version	09.03.2021
RBDG-DWG-072	A2	N/A - First version	09.03.2021
RBDG-DWG-073	A6	16.12.2019	09.03.2021
RBDG-DWG-072	A3	09.03.2021	07.06.2021
RBDG-DWG-065	A1	10.01.2018	06.12.2021
RBDG-DWG-010	A4	09.03.2021	22.03.2023
RBDG-DWG-071	A4	16.12.2019	31.07.2023
RBDG-DWG-011	A3	09.03.2021	03.02.2025

Template	Version	Valid from	Valid up to
RBDG-TPL-013	0101	01.04.2019	16.12.2019
RBDG-TPL-014	0101	01.04.2019	16.12.2019
RBDG-TPL-015	0101	01.04.2019	16.12.2019
RBDG-TPL-019	0101	01.04.2019	16.12.2019
RBDG-TPL-016	0101	01.04.2019	27.04.2020
RBDG-TPL-016	0102	27.04.2020	21.12.2020
RBDG-TPL-017	0101	01.04.2019	21.12.2020
RBDG-TPL-018	0101	01.04.2019	21.12.2020
RBDG-TPL-019	0102	01.04.2019	21.12.2020
RBDG-TPL-024	0101	16.12.2019	21.12.2020
RBDG-TPL-010	0101	15.02.2018	23.10.2023
RBDG-TPL-011	0101	15.02.2018	23.10.2023
RBDG-TPL-012	0101	15.02.2018	23.10.2023
RBDG-TPL-013	0102	16.12.2019	23.10.2023
RBDG-TPL-014	0102	16.12.2019	23.10.2023
RBDG-TPL-015	0102	16.12.2019	23.10.2023
RBDG-TPL-016	0103	21.12.2020	23.10.2023
RBDG-TPL-017	0102	21.12.2020	23.10.2023
RBDG-TPL-018	0102	21.12.2020	23.10.2023
RBDG-TPL-019	0103	21.12.2020	23.10.2023
RBDG-TPL-020	0101	01.04.2019	23.10.2023
RBDG-TPL-021	0101	01.04.2019	23.10.2023
RBDG-TPL-022	0101	01.04.2019	23.10.2023

RBDG-TPL-023	0101	01.04.2019	23.10.2023
RBDG-TPL-024	0102	21.12.2020	23.10.2023
RBDG-TPL-025	0101	16.12.2019	23.10.2023

3.3 Implemented changes register

Changes				
No.	Date	Document	Author	Short description of change
1	10.08.2018	RBDG-MAN-011	RBR	Updated CMP according to discussions between 3 BENs and RB Rail
2	18.12.2018	RBDG-MAN-011	RBR	Updated CMP according to discussions in the Technical Reference Group
3	18.12.2018	RBDG-MAN-014	RBR	Update of ballast requirements to be more practical and allow a larger range of producers to be compliant
4	18.12.2018	RBDG-MAN-015	RBR	Update of requirements to be more in line with Northern Europe and Baltic countries practice
5	01.04.2019	RBDG-MAN-012	RBR	Update of expansion joint design life and structural gauge dimensions
6	01.04.2019	RBDG-MAN-013	RBR	Update of curve overlap requirements, minimum radii, shunting limits and other changes
7	01.04.2019	RBDG-MAN-014	RBR	Update of turnout library, buffer stops and other changes
8	01.04.2019	RBDG-MAN-016	RBR	Update of major structure definition, culvert materials and other changes
9	01.04.2019	RBDG-MAN-017	RBR	Update of load models, design speed and other changes
10	01.04.2019	RBDG-MAN-022	RBR	Update of mainline protection requirements
11	01.04.2019	RBDG-MAN-025	RBR	Update of usable lengths of platforms and tracks
12	01.04.2019	RBDG-MAN-029	RBR	Update of whole document
13	01.04.2019	RBDG-MAN-030	RBR	Update of whole document and introduction of templates
14	18.04.2019	RBDG-MAN-031	RBR	Corrigendum – corrected references

15	21.05.2019	RBDG-MAN-012	RBR	Corrigendum – corrected measurement unit in Chapter 10
16	16.12.2019	RBDG-DWG-071	RBR	Update of cross-section
17	16.12.2019	RBDG-MAN-012	RBR	Update of structural requirements, overhaul of road requirements, structural gauge, introduction of references to ALG
18	16.12.2019	RBDG-MAN-017	RBR	Update of structural requirements, introduction of references to ALG
19	16.12.2019	RBDG-MAN-030 RBDG-TPL-013 RBDG-TPL-014 RBDG-TPL-015 RBDG-TPL-019	RBR	Update of BIM requirements
20	16.12.2019	RBDG-MAN-016	RBR	Update of hydrology requirements
21	16.12.2019	RBDG-DWG-070 RBDG-DWG-073	RBR	Introduction of a clarifying note
22	16.12.2019	RBDG-MAN-019	RBR	Update of catenary height due to structural gauge change
23	16.12.2019	RBDG-MAN-015 RBDG-MAN-026 RBDG-MAN-027 RBDG-MAN-031	RBR	Introduction of references to ALG and update of ALG document
24	08.01.2020	RBDG-MAN-012	RBR	Corrigendum of structural gauge cross-section height
25	05.02.2020	RBDG-MAN-031	RBR	Corrigendum of visual identity guidebook reference
26	27.04.2020	RBDG-MAN-016	RBR	Corrigendum of reference in chapter 4.4.1
27	27.04.2020	RBDG-MAN-019	RBR	Corrigendum of gauge requirement in chapter 4.5
28	27.04.2020	RBDG-MAN-031B	RBR	Change in regional platform width in page 99
29	27.04.2020	RBDG-MAN-036	RBR	Update of international station security requirements

30	13.07.2020	RBDG-MAN-013	RBR	Update of shunting limits and gradient requirements, introduction of a limit track axis distance for turnouts
31	13.07.2020	RBDG-MAN-014	RBR	Update of turnout parameters
32	13.07.2020	RBDG-MAN-017	RBR	Introduction of catenary mast fixing requirements for the bridge deck, update of ballast density calculation requirements for permanent loads
33	13.07.2020	RBDG-MAN-025	RBR	Update of useable length requirements
34	13.07.2020	RBDG-MAN-036	RBR	Update of derogation process for international station security requirements
35	13.07.2020	RBDG-DWG-070	RBR	Update of catenary mast location
36	21.12.2020	RBDG-MAN-014 RBDG-MAN-014A RBDG-MAN-014B RBDG-MAN-014C RBDG-MAN-014D	RBR	Update of superstructure components requirements and moving them to annexes of main document
37	21.12.2020	RBDG-MAN-015	RBR	Update of alpha factor requirements for retaining walls
38	21.12.2020	RBDG-MAN-016	RBR	Update of definition of major structures, minimum clearance for major structures and minimum diameter for drainage crossings
39	21.12.2020	RBDG-MAN-017	RBR	Update of prestressing steel properties and overhead catenary protection system requirements
40	21.12.2020	RBDG-MAN-027	RBR	Update of requirements for applicable legislation in Latvia
41	21.12.2020	RBDG-MAN-030 RBDG-TPL-016 RBDG-TPL-017 RBDG-TPL-018 RBDG-TPL-019 RBDG-TPL-024	RBR	Update of BIM requirements in chapters 8; 10.4; 14, Annexes 1-3 and update of BIM templates

42	21.12.2020	RBDG-MAN-031B	RBR	Corrigendum of dimensions and legends on page 98 and 101
43	21.12.2020	RBDG-MAN-031F	RBR	Update of requirements on pages 73; 74; 92 and 93
44	21.12.2020	RBDG-MAN-031G	RBR	Corrigendum of dimensions and descriptions on pages 10; 18 and 21
45	21.12.2020	RBDG-DWG-070	RBR	Update of distance to catenary mast
46	09.03.2021	RBDG-MAN-012	RBR	Update of structure gauges, fence heights, cableways requirements, design life for cable channels and manholes, inclusion of systems equipment locations requirements
47	09.03.2021	RBDG-MAN-013	RBR	Update of standards, slowest freight train speed, cant calculation, abrupt change of cant deficiency, regional stop explanation, abrupt change of track gradient and minimum radius and distance between track centers for passengers and light freight section
48	09.03.2021	RBDG-MAN-014D	RBR	Corrigendum of 60E-190-1/9 turnout dimension L2
49	09.03.2021	RBDG-MAN-015	RBR	Update of geotechnical load situation
50	09.03.2021	RBDG-MAN-017	RBR	Update of maintenance requirements if conflicting with catenary mast
51	09.03.2021	RBDG-MAN-025	RBR	Update of regional station platform length and platform offset
52	09.03.2021	RBDG-MAN-027	RBR	Update of topsoil depth requirements
53	09.03.2021	From RBDG-DWG-001 to RBDG-DWG-012 From RBDG-DWG-020 to RBDG-DWG-026 RBDG-DWG-033 RBDG-DWG-072 RBDG-DWG-073	RBR	Updated with cable channels and correction of summary table for distance of RBDG-DWG-073
54	07.06.2021	RBDG-MAN-013	RBR	Update of adding reference to TSI INF regarding reverse curves and cant limitation on small curves
55	07.06.2021	RBDG-MAN-014A	RBR	Update of certificate of compliance with TSI INF
56	07.06.2021	RBDG-MAN-017	RBR	Update of requirements on pages 6; 11; 16 and 17

57	07.06.2021	RBDG-MAN-025	RBR	Update of adding new paragraph 7 regarding numeration principles of railway infrastructure elements
58	07.06.2021	RBDG-MAN-031F	RBR	Update of OCPS requirements on pages 99 and 109
59	07.06.2021	RBDG-DWG-072	RBR	Update of adding a note
60	11.10.2021	RBDG-MAN-012	RBR	Update of point heating cabinet area dimensions
61	11.10.2021	RBDG-MAN-027	RBR	Update of corrective factor requirements for noise modelling for application of SRMII noise calculation method.
62	11.10.2021	RBDG-MAN-031	EDzL	Update of changing the requirement for local stations in city areas
63	06.12.2021	RBDG-MAN-012	RBR	Update of the position of the barbed wire in case the standard fence height is changed because of EIA requirements (6.1.2) Update of definition of Green path, revoke design speed of maintenance roads, lower longitudinal profile for vertical curves of maintenance roads, specify maintenance roads cross section solution and to add a requirement of risk assessment for road safety barriers
64	06.12.2021	RBDG-MAN-025	RBR	Update of platform height increase section 1.1
65	06.12.2021	RBDG-MAN-017	RBR	Update of catenary concept design a standard solution for OCS foundations on bridges sub-chapter 3.6.7 and chapter 3.4.2.1 wording is updated
66	06.12.2021	RBDG-MAN-017	RBE	To reduce the required strength of the superstructure from C45/55 to C35/45 for non-railway structures in section 4.1.1
67	06.12.2021	RBDG-MAN-016	RBR	Update is to define conditions when coated drainage ditches are preferred over earth ditches
68	06.12.2021	RBDG-DWG-065	RBR	Update to specify solutions of maintenance road cross section
69	13.12.2021	RBDG-MAN-026 RBDG-MAN-031B RBDG-MAN-031D	RBR	Update to fulfill NoBo requirements and recommendations and to align Design Guidelines with requirements of TSI PRM
70	07.01.2022	RBDG-MAN-026	RBR	Update to split requirement applicable for regional and international stations.

71	28.03.2022	RBDG-MAN-012	RBR	Updated requirements for fences in sensitive urban areas
72	28.03.2022	RBDG-MAN-031	RBR	Updated requirements for bridges, overpasses, and architecture of noise barriers
73	28.03.2022	RBDG-MAN-030	RBR	Added clarifications to BIM Manual
74	28.03.2022	RBDG-MAN-033	RBR	Added clarifications to BIM EIR
75	28.03.2022	RBDG-MAN-016	RBR	Updated requirements for buried drainage inspection manholes
76	28.03.2022	RBDG-MAN-014B	RBR	Update of under sleeper pad requirements
77	28.03.2022	RBDG-MAN-037	RBR	New Design Guideline for Regional Station Security
78	09.05.2022	RBDG-MAN-014B	RBR	Removed height adjustment for fastening systems
79	09.05.2022	RBDG-MAN-016	RBR	Increased distance between inspection manholes for all drainage pipes on exceptional places
80	09.05.2022	RBDG-MAN-017	RBR	Changes for vertical clearances, OCS fixings overbridges/tunnels, earthing and bonding
81	09.05.2022	RBDG-MAN-018	RBR	Changes implemented after approval of SFC technology
82	09.05.2022	RBDG-MAN-020	RBR	Changes implemented after approval of SFC technology
83	09.05.2022	RBDG-MAN-024	RBR	Changes implemented after update of ECCS
84	09.05.2022	RBDG-MAN-031	RBR	Changes in sound barrier type and length
85	22.06.2022	RBDG-MAN-016	RBR	Changes in ditch longitudinal slope requirements
86	02.09.2022	RBDG-MAN-017	EDzL	Corrigendum of reference in chapter 3.6.4
87	28.11.2022	RBDG-MAN-025	RBR	The numbering/codification of operational points added to DG
88	28.11.2022	RBDG-MAN-038	RBR	Introduction of new Design Guideline
89	28.11.2022	RBDG-MAN-039	RBR	Introduction of new Design Guideline
90	28.11.2022	RBDG-MAN-040	RBR	Introduction of new Design Guideline
91	28.11.2022	RBDG-MAN-030	RBR	Changes linked to introduction of RBDG-MAN-040
92	28.11.2022	RBDG-MAN-033	RBR	Changes linked to introduction of RBDG-MAN-040
93	28.11.2022	RBDG-MAN-034	RBR	Changes linked to introduction of RBDG-MAN-040
94	28.11.2022	RBDG-MAN-035	RBR	Changes linked to introduction of RBDG-MAN-040
95	06.02.2023	RBDG-MAN-014	RBR	Updated requirements for ballast tank sides on structures and rail neutral temperature

96	23.03.2023	RBDG-MAN-031B	RBR	Clarifications about platform safety zone (page 99)
97	23.03.2023	RBDG-MAN-011	RBR	Corrigendum of Chapter 3 Encoding to align with RBDG-INF-001 requirements
98	23.03.2023	RBDG-DWG-010	RBR	Corrigendum to align platform height with Design Guidelines requirements
99	31.07.2023	RBDG-MAN-014B	RBR	Updated Static coefficient for calculating FrB at the end of fatigue test, Chapter 3.1.1, Table 2
100	31.07.2023	RBDG-MAN-023	RBR	Updated Chapter 14 to solve contradicting requirements with RBDG-MAN-012
101	31.07.2023	RBDG-MAN-017 RBDG-DWG-071-A5	RBR	Updated Chapter 2.1.2. adding intrusion detectors for overbridges
102	31.07.2023	RBDG-MAN-022	RBR	Updates in Chapter 7.5 with reference to RBDG-MAN-012 regarding intrusion detection
103	31.07.2023	RBDG-MAN-027	RBR	Updates in Chapter 4.2.3.1 regarding harrow in ditches
104	31.07.2023	RBDG-MAN-031F	RBR	Removed coloring for ground beam of noise absorbing panels, changed from steel to metal in noise barrier material description
105	31.07.2023	RBDG-MAN-031	RBR	Removed anti-graffiti coating from noise barriers
106	31.07.2023	RBDG-MAN-012	RBR	Changes in zinc coating requirements, protective devices on road bridges, cable duct crossings under the railway tracks with conceptual solutions
107	04.12.2023	RBDG-MAN-031B	RBR	Changes in Type 2 station roof geometry and requirements for roof materials
108	18.12.2023	RBDG-MAN-030	RBR	Changed applicability of LOD400 level
109	29.12.2023	RBDG-MAN-011	RBR	Modified clause 7 and 8 regarding granting automatic derogations whenever justifiable while making a change
110	29.12.2023	RBDG-MAN-014C	RBR	Added requirements for ballast contamination at delivery point
111	29.12.2023	RBDG-MAN-035 RBDG-MAN-040	RBR	Changes in description of document management system use, ProjectWise changed to more generic term- Electronic document management system
112	25.03.2024	RBDG-MAN-012	RBR	In section 8.1 changed altitude class from A1 to A2
113	25.03.2024	RBDG-MAN-014B	RBR	Adjusted Nominal axle load and Dynamic increment factor requirements in section 3.1.1. Table 3

114	25.03.2024	RBDG-MAN-017	RBR	In section 3.6.3. added requirements for exceptional cases to make holes in noise barriers for rainwater runoff and in section 3.6.4. clarifications regarding grounding for structures
115	13.05.2024	RBDG-MAN-014 RBDG-MAN-014E	RBR	Correction in head ramps and buffer stops chapters and supplementation of new annex
116	27.06.2024	RBDG-MAN-011	RBR	Updated Change Management Procedure to be aligned with Project Management Agreement and transferred Design Guideline change approval to Rail Baltica project Coordination Steering Committee
117	01.10.2024	RBDG-MAN-038 RBDG-MAN-039 RBDG-MAN-040	RBR	Clarifications added and mistakes from previous versions fixed in close coordination with Implementing Bodies to mitigate many interpretation cases during design and construction works. <u>Latest revisions mandatory application is to design and construction contracts signed after 1st of July 2024.</u>
118	01.10.2024	RBDG-MAN-029	RBR	Substitution of mandatory requirement for leakage detection installation on crossing utility pipelines with case by case requirement based on risk assessment.
119	01.10.2024	RBDG-MAN-013	RBR	Added references to existing EN Standards that needs to be followed for exceptional values.
120	01.10.2024	RBDG-MAN-012	RBR	Transferred Technical specification from consolidated material procurement to Design Guideline as an Annex.
121	01.10.2024	RBDG-MAN-014A	RBR	Requirements made applicable also for guard rails, added references to applicable Standards and changed RBR to The client, therefore making this document applicable to other parties in case of purchase of rails.
122	01.10.2024	RBDG-MAN-014C	RBR	Changed RBR to The client, therefore making this document applicable to other parties in case of purchase of ballast correction of applicable standards and more elaborated description for acceptance of delivery of ballast.
123	03.12.2024	RBDG-MAN-014B	RBR	Minor corrections and RBR replacement with client, therefore allowing different purchasers of sleepers and fastening systems.

124	03.12.2024	RBDG-MAN-014E	RBR	Editorial updates after alignment with designers to provide more detailed explanations in guideline.
125	04.02.2025	RBDG-MAN-014D	RBR	Design Guideline updated to be aligned with consolidated material procurement results and supply of materials
126	04.02.2025	RBDG-DWG-011 RBDG-DWG-013 RBDG-DWG-014	RBR	Corrected ballast formation in drawing DWG-011, and added drawings for double track in curve and track cross section in depots / terminals