



EIROPAS DZELZCEĻA LĪNIJAS

A
SECTOR





Rail Baltica Regional Stations

Interested Suppliers meeting
10.06.2021





Part I

Rail Baltica



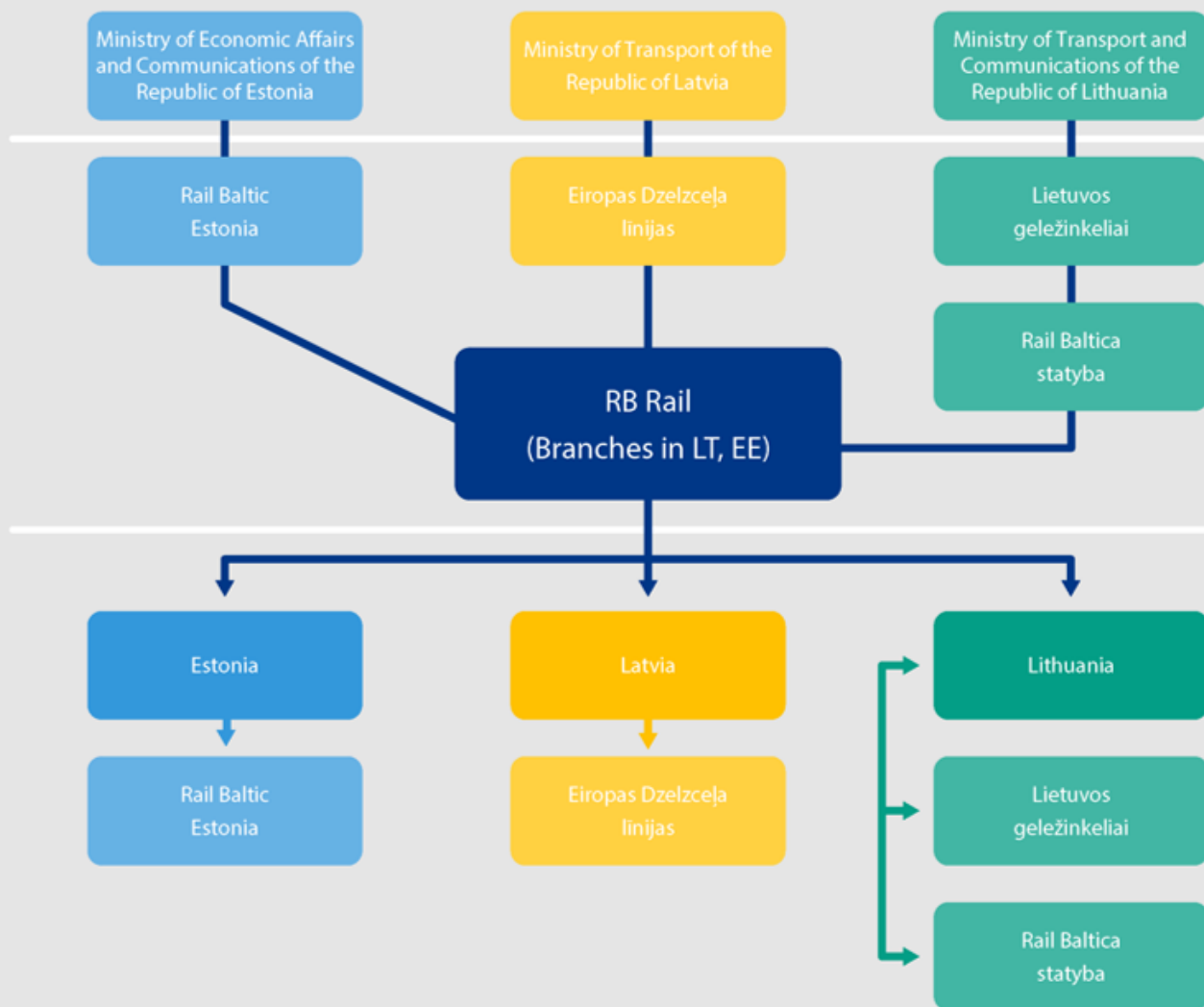
Project implementers

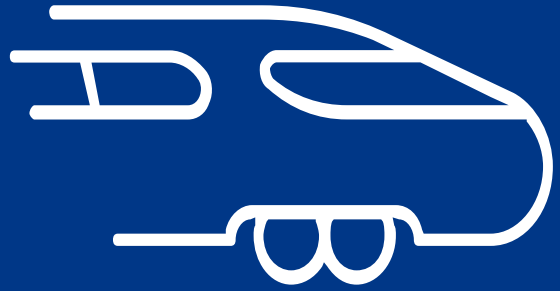
Beneficiaries – three ministries

RB Rail shareholders

Central project coordinator

National implementing bodies





What is Rail Baltica?





-  High Speed
-  Night Train
-  Freight

7 international passenger stations and several regional stations

3 intermodal terminals





Project technical parameters

Total Line Length

870 km of which:
• 213 km in Estonia
• 265 km in Latvia
• 392 km in Lithuania

Design Speed

• 249 km/h for passenger trains
• 120 km/h for freight trains

Standard Gauge

1435 mm

Double-track Electrified

2x25kVAC

Axle Load

25 t

Traffic Management

ERTMS L2

Max. Freight Train Length

1050 m

Detailed Technical Design in Latvia



Sections:

-  Riga Central Section
-  Vangaži to Misa
-  Estonian/Latvian boarder – Vangaži
-  Misa – Latvian/Lithuanian border

Indicative scope of works:



32
bridges



43
railway
viaducts



82
road
viaducts



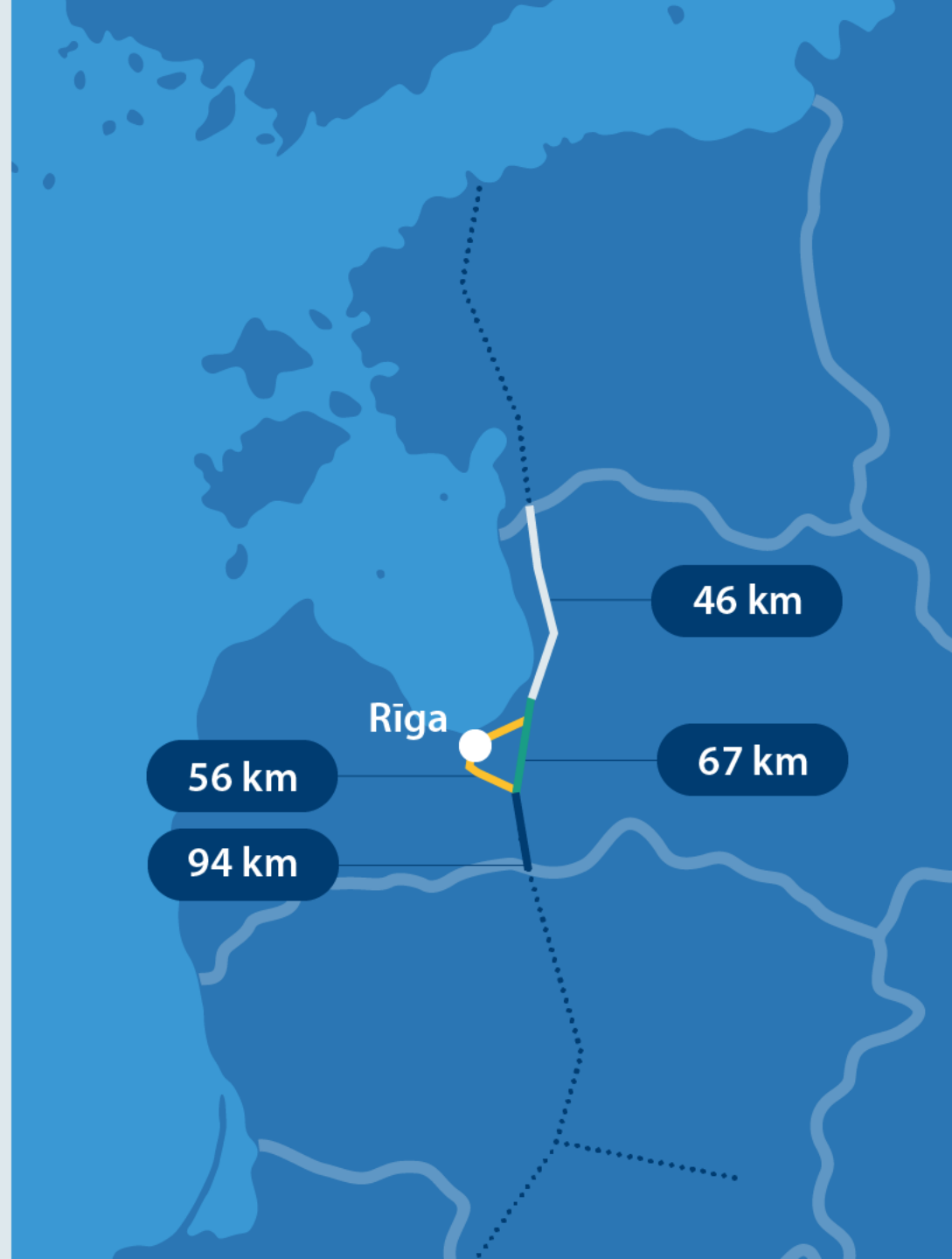
10
ecoducts



13
segregated
pedestrian
crossings



1
tunnel



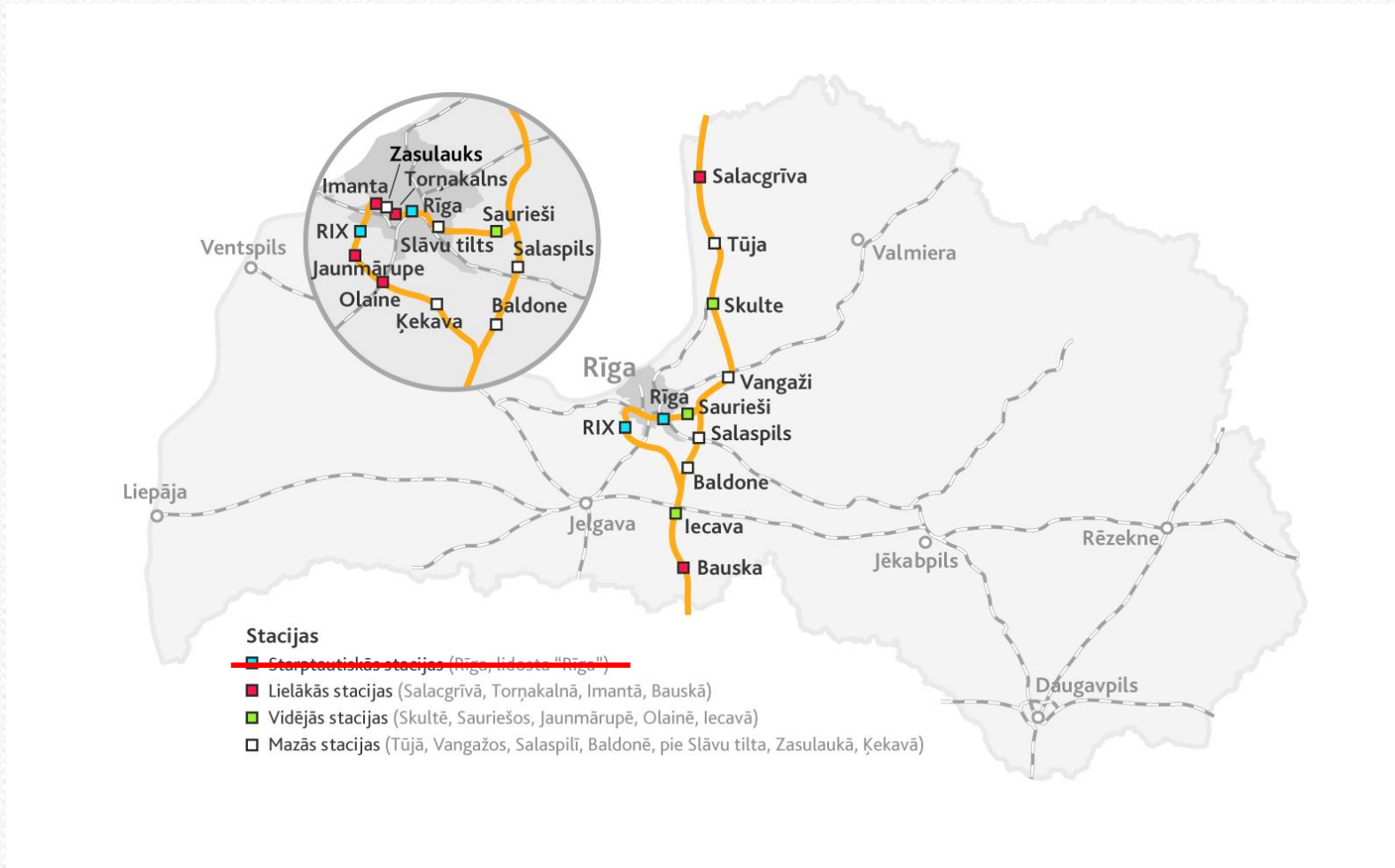


Part II

Regional Station procurement



The Project Scope



17 Regional stations

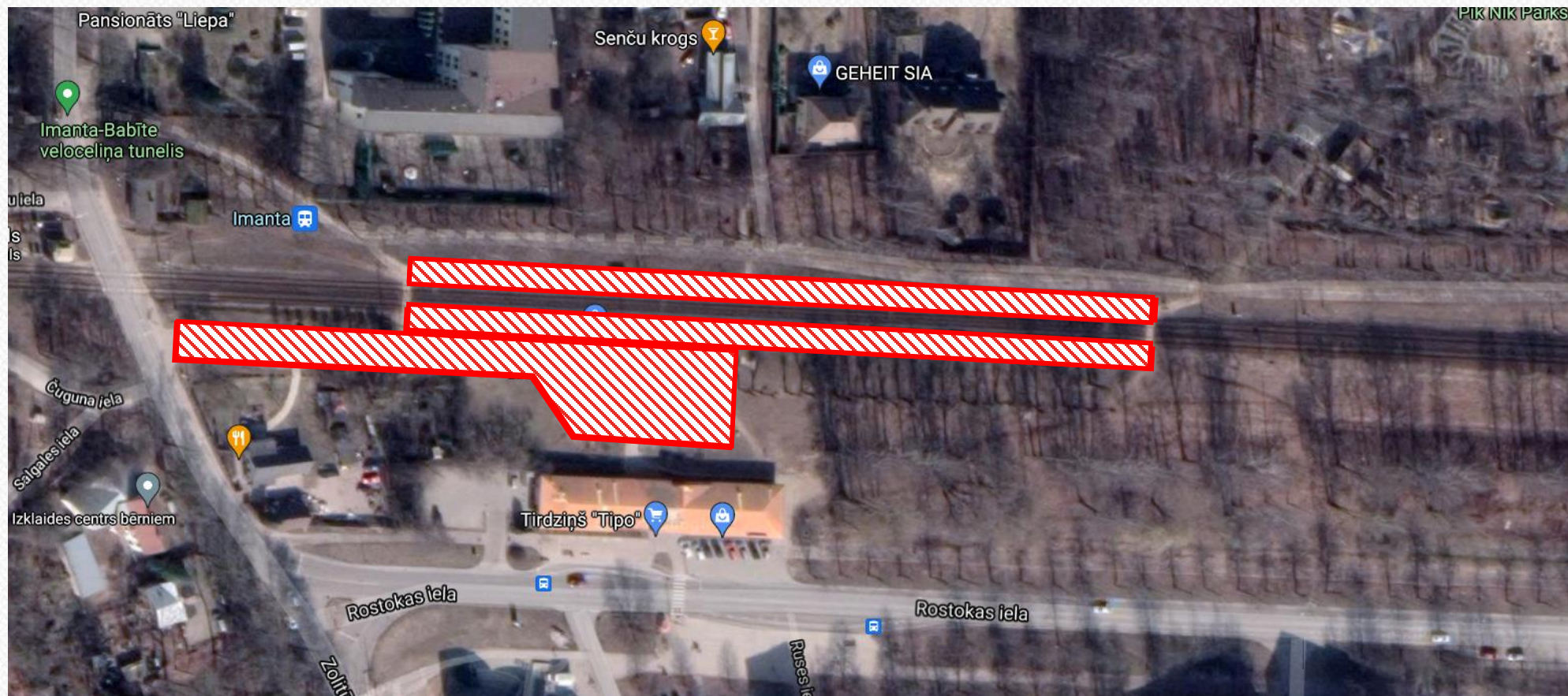
Existing
Concepts



100%
designs

Strategic intent: Construct stations in parallel with main line.
Design deadline: Q4 2023

What do we mean by Regional station?



Design Guidelines (DG)

- A set of documents (hundreds of pages) clearly defining all the elements of the global project, incl. Regional stations.
- For regional stations they define:
 - Station types;
 - Station territory and support facilities (e.g. over/under-pass designs);
 - Station building layout and planning;
 - Architectural concept, color scheme and preferred materials;
 - Other.
- **Design solutions cannot deviate from DG!***

Type 1 – International stations

Type 2
Landmark station



Type 3
Basic station



Type 4
Platform station



TYPE I - INTERNATIONAL STATION / TERMINAL STATION

An International Station is a large station that shall be fully staffed with multiple facilities and for multiple transit services. Located in the centre of the main capitals of the three Baltic States, is an element that changes the city.

TYPE II –LANDMARK REGIONAL STATION

This station is composed by the station building and the platform, minimum facilities and operation rooms. Lower level of staff is required.

TYPE III – BASIC REGIONAL STATION

This station has the station building for waiting spaces but not ticket agents or amenities. No staff is required.

TYPE IV – PLATFORM REGIONAL STATION

This type of station it is only the platform and proper shelters and unstaffed. No facilities and all needed elements are part of the platform.

Type 2
Landmark station



Territory: 5750 m²
Vehicle parking: 30
Taxi parking: 6
EV charging stations: 6

Type 3
Basic station



Territory: 4600 m²
Vehicle parking: 20
Taxi parking: 4
EV charging stations: 4

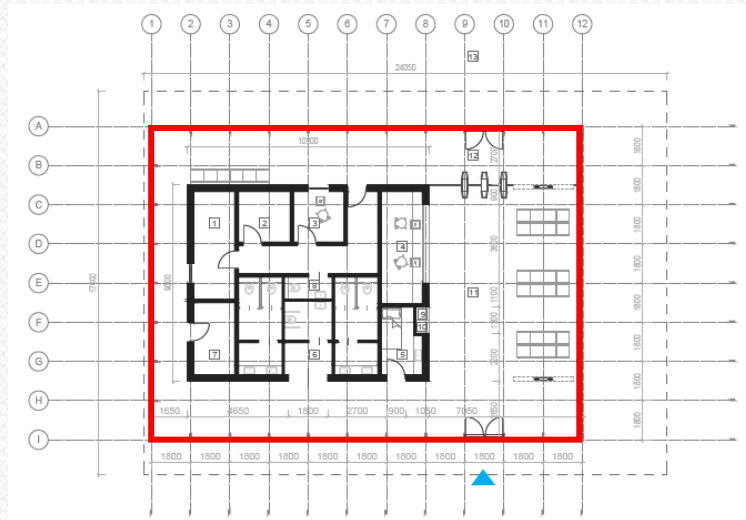
Type 4
Platform station



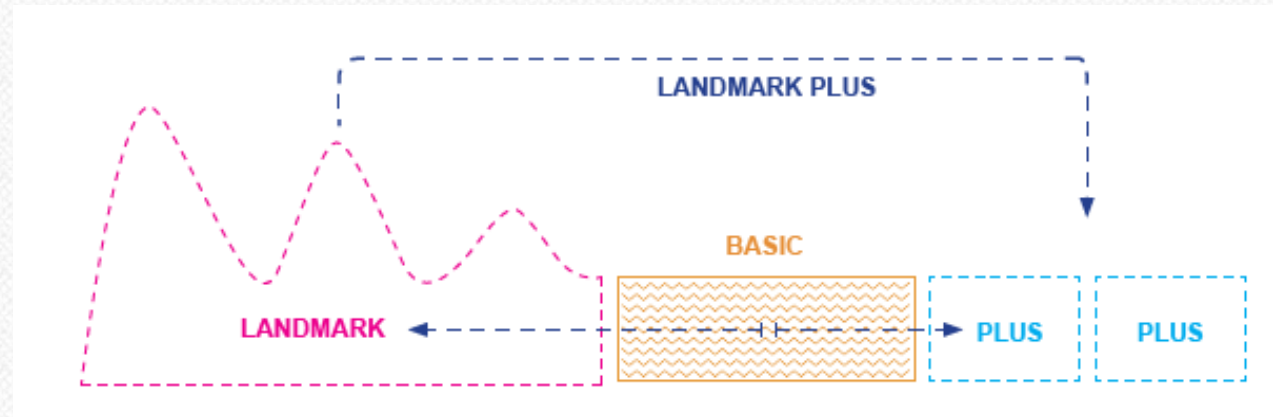
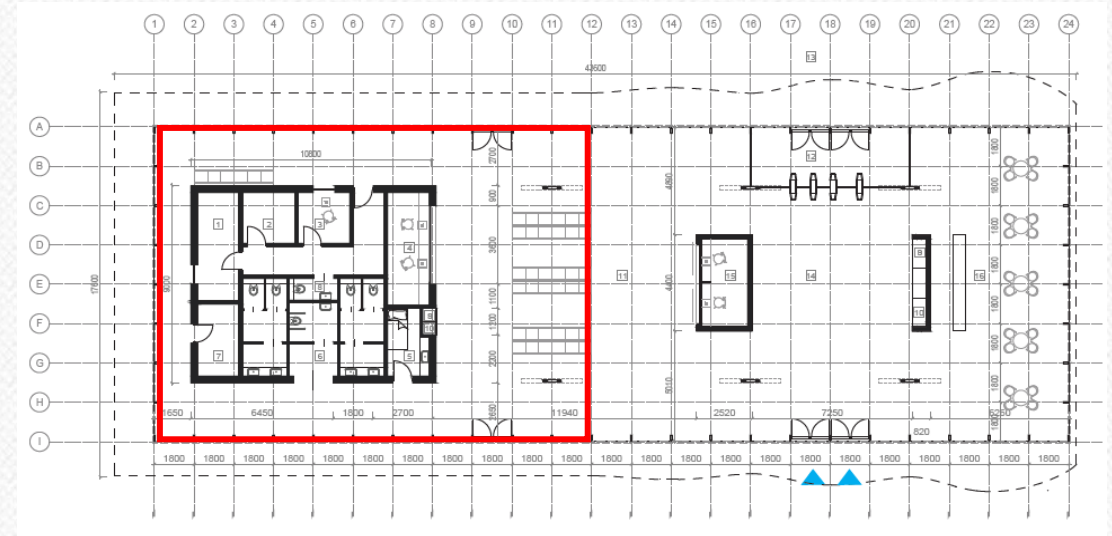
Territory: 3450 m²
Vehicle parking: 12
Taxi parking: 2
EV charging stations: 2

Space for future growth

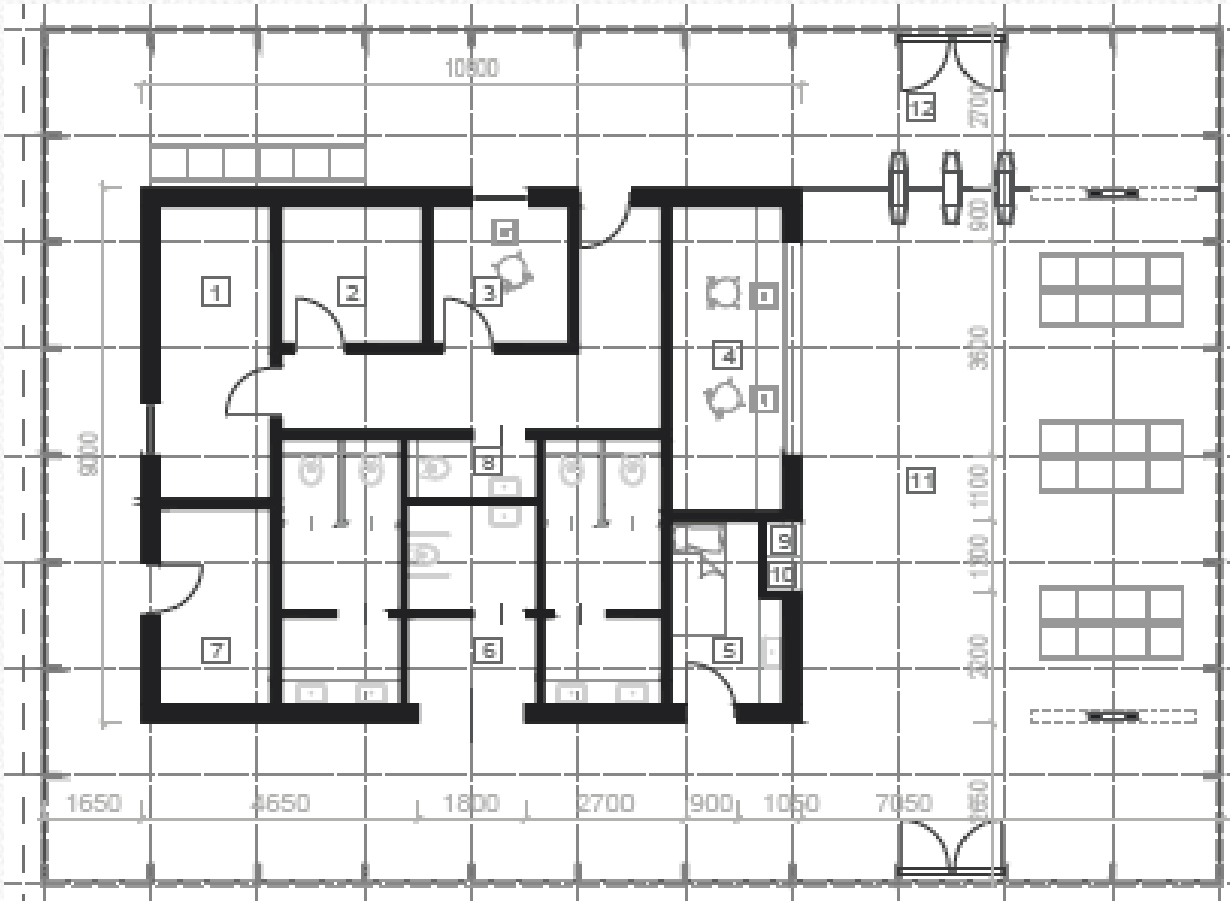
Type 3



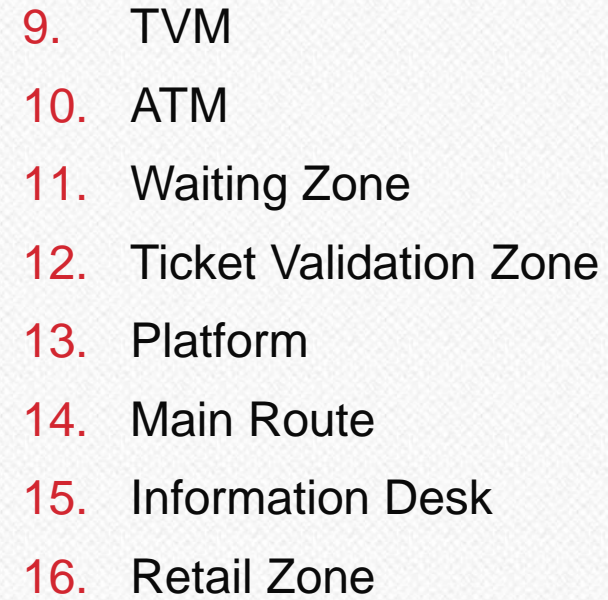
Type 2

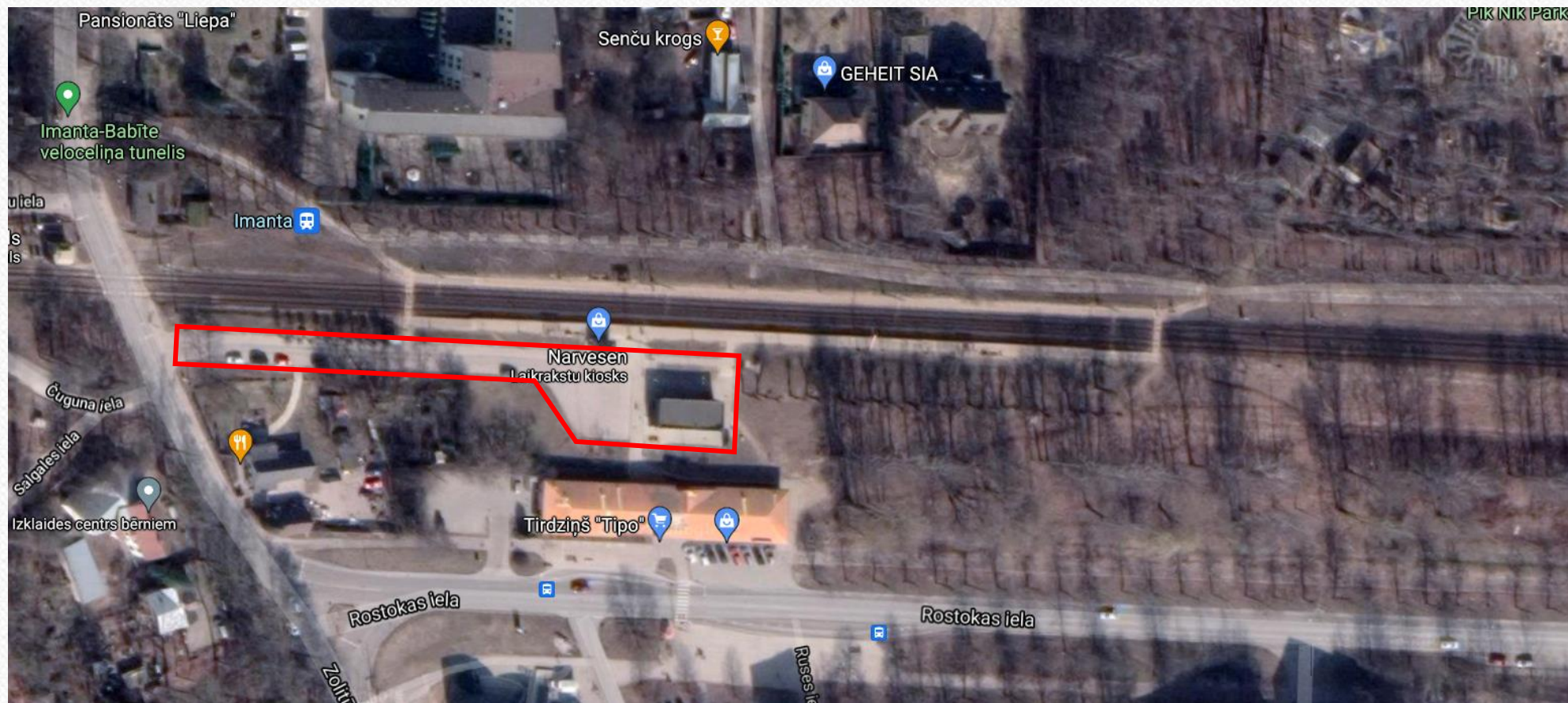


Type 3 – Basic station



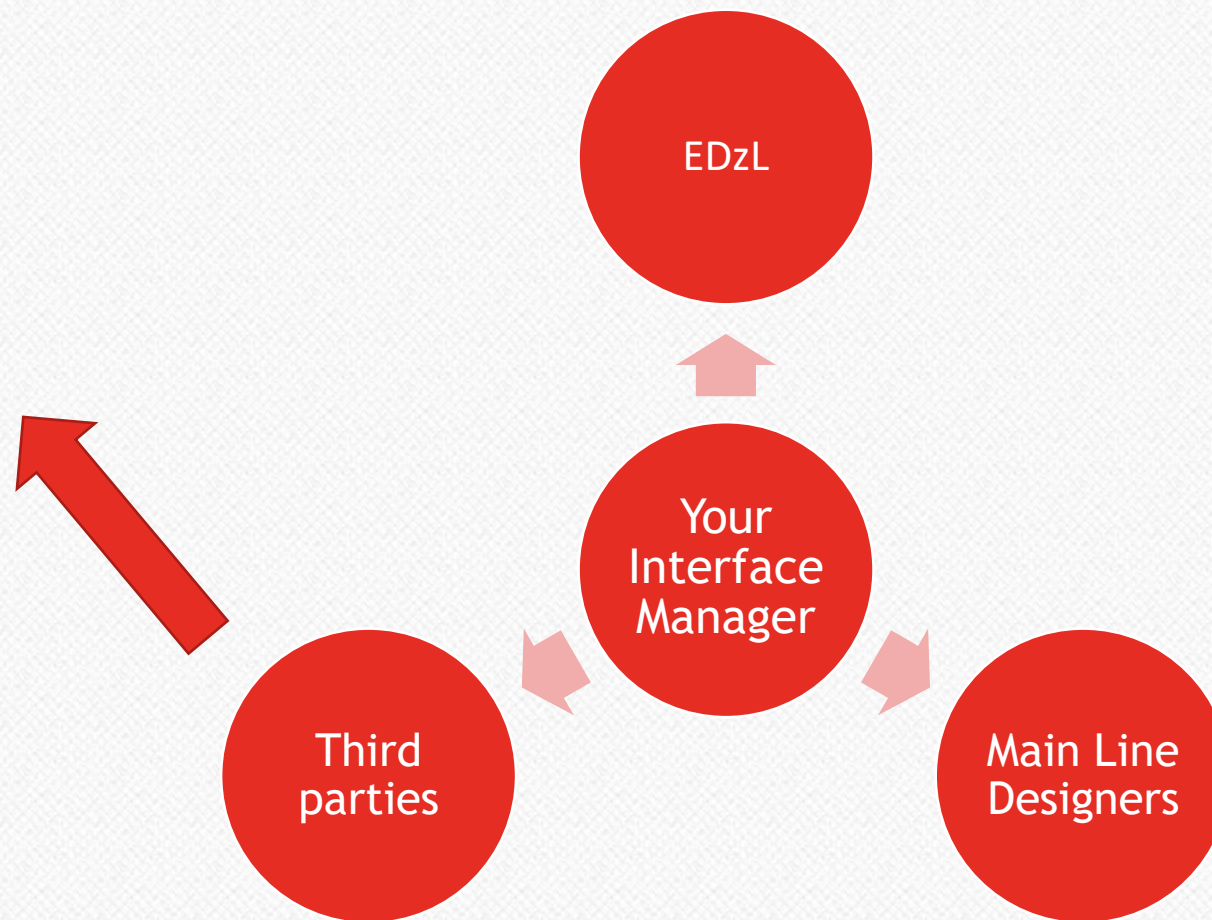
1. Staff Room
2. Police
3. Control Room
4. Ticket Office
5. First Aid
6. Toilets
7. Master
8. Staff Toilet
9. ATM
10. TVN
11. Waiting Zone
12. Ticket Validation Zone





Interface Management

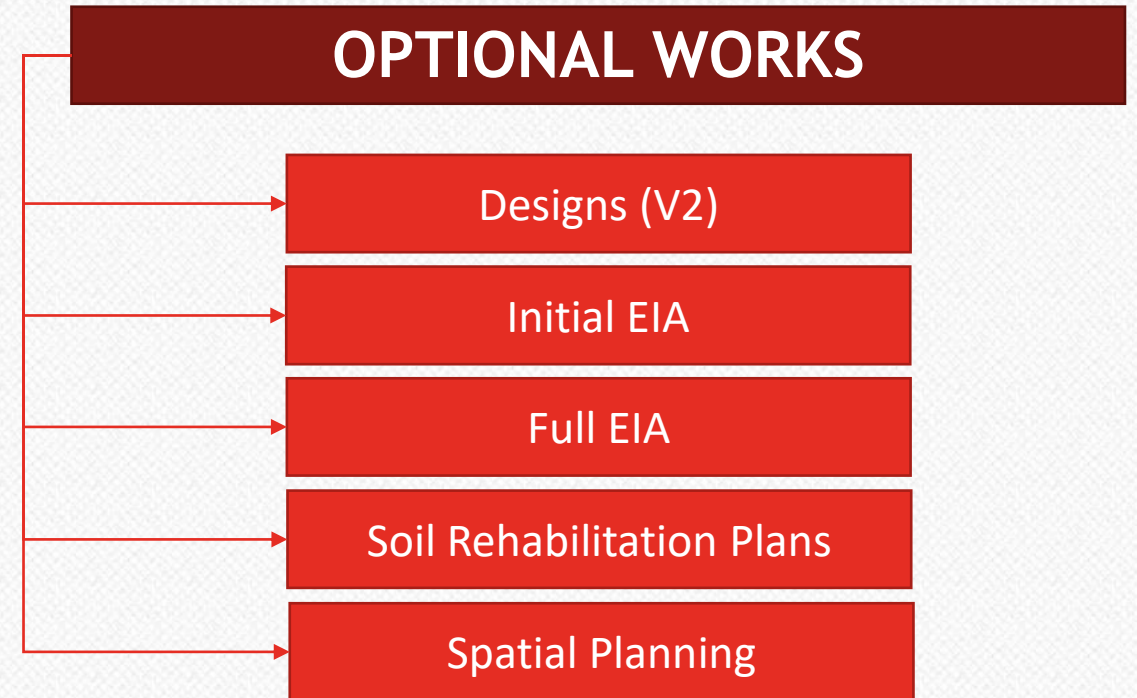
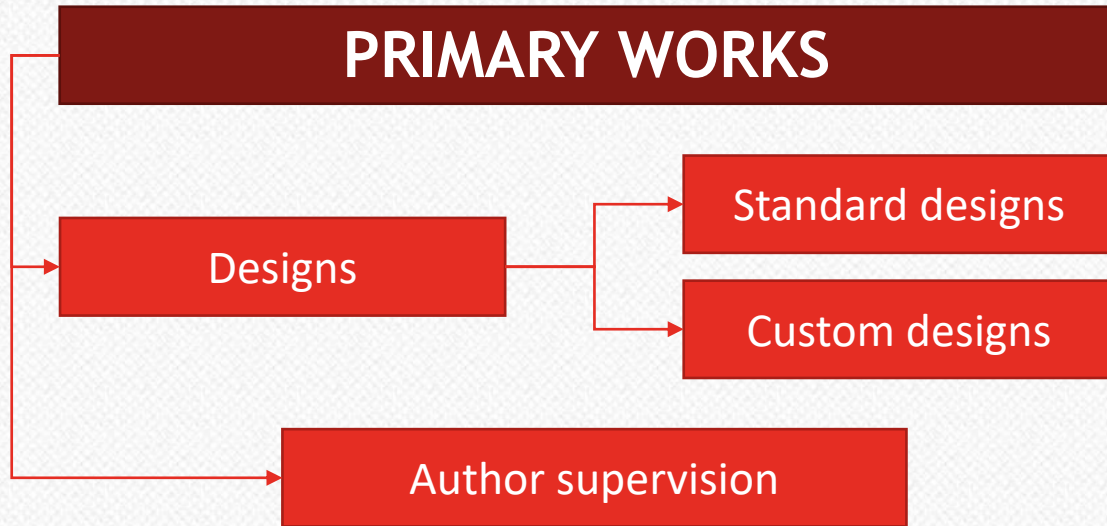
Including:
State Environmental Service
CCS Contractor
ENE Contractor
VAS Latvijas Dzelzceļš
Latvian State Roads
Municipalities
Other



Studies

- During design process, you will have to take into account various studies, e.g.:
 - Currently available studies:
 - Rail Baltica – Operational Plan Study;
 - Additional requirements for site investigations;
 - Quality Assessment Study on Usage of Local Mineral Materials;
 - Archeology and cultural heritage study;
 - Etc.
 - In process studies:
 - Regional Impact Study;
 - Precise platform offset calculation Study;
 - "Dig once" & Corridor Synergies Study;
 - Etc.
- The list is not exhaustive as other studies might be devised to assist the global project.

Procurement Scope



Spatial planning

Given the size and complexity of the Rail Baltica project, it has proven impossible to develop spatial planning documents before technical solutions are prepared to a certain extent.

Currently:

- local planning process is ongoing in **Riga City** in parallel with the main line design;
- local planning procurements are issued for **Skulte** and **Iecava** Infrastructure maintenance facilities (including the respective regional stations in the scope).

Object of national interest (NIO)

20.05.2021 - Ministry of Transport has issued a Draft Order of the Cabinet of Ministers to specify the scope of the NIO of the European standard gauge public railway infrastructure line Rail Baltica project. The draft order provides for the inclusion of regional stations as NIO.

The indicative due date for announcing the regulations of the Cabinet of Ministers is September 2021.



Deliverable timeline

Deliverables	Months		Date
	From previous	From contract	
Standardised designs for type 2/3/4 station buildings, incl. BIM model	6	6	19-Aug-2022
Design of minimum composition (build.perm)	0	6	19-Aug-2022
Initial EIA	2	8	18-Oct-2022
Interim deliverables		9	17-Nov-2022
Land aquisition plan	3	9	17-Nov-2022
BIM model mockup for custom buildings	3	9	17-Nov-2022
Master design	6	12	15-Feb-2023
MD Expert review	2	14	16-Apr-2023
DTD (100% design, incl. stakeholder approval)	3	17	15-Jul-2023
DTD Expert review	2	19	13-Sep-2023
Approval from construction board	1	20	13-Oct-2023

Bid Financials (I) - Total

Būvprojekta nosaukums:
Construction design name:

BŪVPROJEKTU IZSTRĀDE UN AUTORUZRAUDZĪBA RAIL BALTICA REĢIONĀLAJĀM STACIJĀM
CONSTRUCTION DESIGNS AND AUTHOR SUPERVISION OF RAIL BALTICA'S REGIONAL STATIONS

FINANŠU PIEDĀVĀJUMS / FINANCIAL OFFER

Lapa / Sheet	Apraksts latviešu valodā	Description in English	Vienība / Unit	Daudz. / Q	Vienības cena / Unit price	Kopā / Total
	Pamatdarbu izmaksas	Primary Works Costs				
D	Būvprojektu izstrāde kopā	Construction designs total				€ -
A	Autoruzraudzība kopā	Author supervision total				€ -
I	Sākotnējais ietekmes uz vidi novērtējums kopā	Initial environmental impact assessment total				€ -
	Starpsumma	Subtotal				€ -
	Virsizdevumi	Overhead	%			€ -
	Peļņa	Profit	%			€ -
	Pavisam kopā	Grand total				€ -
	Apraksts latviešu valodā	Description in English	Vienība / Unit	Daudz. / Q	Vienības cena / Unit price	Kopā / Total
O	Izvēles darbu izmaksas	Optional works costs				
OD	Izvēles pilnie staciju būvprojekti	Optional full station designs				€ -
OI	Izvēles pilnie Ietekmes uz vidi novērtējumi (IVN)	Optional Full Environmental Impact Assessments (EIA)				€ -
OP	Izvēles Sanācijas plāna izstrāde	Optional soil rehabilitation plan development	Kompl./ Set	1	€ -	€ -
OP	Izvēles teritorijas plānošana	Optional Spatial planning				€ -


Bid Financials (II) - Design Group

	Apraksts latviešu valodā	Description in English	Vienība / Unit	Daudz. / Q	Vienības cena / Unit price	Kopā / Total
D	BŪVPROJEKTU IZSTRĀDE	CONSTRUCTION DESIGN				
TD	TIPVEIDA STACIJU BŪVPROJEKTI	TYPICAL STATION DESIGNS				€ -
TD.1	2. tipveida stacijas tehniskais dizains	Typical Type 2 Station building Technical design	Kompl/ Set	1	€ -	€ -
TD.1.1	Visu BIM nosacījumu izpilde 2. tipa stacijas ēkai	Application of all BIM requirements for Type 2 station building	Kompl/ Set	1	€ -	€ -
TD.2	3. tipveida stacijas tehniskais dizains	Typical Type 3 Station building Technical design	Kompl/ Set	1	€ -	€ -
TD.2.1	Visu BIM nosacījumu izpilde 3. tipa stacijas ēkai	Application of all BIM requirements for Type 3 station building	Kompl/ Set	1	€ -	€ -
TD.3	4. tipveida stacijas tehniskais dizains	Typical Type 4 Station building Technical design	Kompl/ Set	1	€ -	€ -
TD.3.1	Visu BIM nosacījumu izpilde 4. tipa stacijas ēkai	Application of all BIM requirements for Type 4 station building	Kompl/ Set	1	€ -	€ -
SD	PILNIE STACIJU BŪVPROJEKTI	FULL STATION DESIGNS				€ -
SDX	REĢIONĀLĀ STACIJA X	REGIONAL STATION X				€ -
SDX.1	Būvprojekts minimālā sastāvā	Construction design in minimum composition	Kompl/ Set	1	€ -	€ -
SDX.2	Būvprojekts	Detailed technical design	Kompl/ Set	1	€ -	€ -
SDX.3	BIM prasību izpildes izmaksas	BIM application costs	Kompl/ Set	1	€ -	€ -
SDY	REĢIONĀLĀ STACIJA Y	REGIONAL STATION Y				€ -
SDY.1	Būvprojekts minimālā sastāvā	Construction design in minimum composition	Kompl/ Set	1	€ -	€ -
SDY.2	Būvprojekts	Detailed technical design	Kompl/ Set	1	€ -	€ -
SDY.3	BIM prasību izpildes izmaksas	BIM application costs	Kompl/ Set	1	€ -	€ -
(..)						
D	Būvprojektu izstrāde kopā	Construction designs total				€ -

Bid Financials (III) - One station

	Apraksts latviešu valodā	Description in English	Vienība / Unit	Daudz. / Q	Vienības cena / Unit price	Kopā / Total
	REĢIONĀLĀ STACIJA X	REGIONAL STATION X				
1	Būvprojekts minimālā sastāvā*	Construction design in minimum composition*				€ -
1.1	Būvprojektēšanas sagatavošanas darbi (tai skaitā inženierizpēte (Vispārīgo būvnoteikumu 21.p), esošo inženierkomunikāciju tehniskā apsekošana, tehniskie noteikumi u.c.)	Construction design preparation works (including engineering research (according to General Construction Regulation point 21), Technical inspection of existing engineering communications, technical regulations, etc.)	Kompl/ Set	1	€ -	€ -
1.2	Būvapjoma 3D vizualizācija	Construction volume 3D visualisation	Kompl/ Set	1	€ -	€ -
2	Būvprojekts / Detailed technical design	Būvprojekts / Detailed technical design				
2.1	Vispārīgā daļa, t.sk.	General Part, incl.				
2.1.1	Būvprojektēšanas uzsākšanai nepieciešamie dokumenti un materiāli	Documents and materials required to start design	Kompl/ Set	1	€ -	€ -
2.1.2	Zemes gabala inženierizpētes materiāli	Land plot engineering research materials	Kompl/ Set	1	€ -	€ -
2.1.3	Skaidrojošs apraksts, kurā norādīta vispārīga informācija par ēkas tehniskajiem rādītājiem, ēkas galveno lietošanas veidu atbilstoši būvju klasifikācijai, ugunsdrošības pasākumi un vides pieejamības risinājumi	Explanatory description giving general information about the technical characteristics of the building, the main use of the building according to the classification of buildings, fire safety measures and environmental accessibility solutions	Kompl/ Set	1	€ -	€ -
(..)						
3	BIM prasību izpildes izmaksas	BIM application costs				€ -
3.1	Visu BIM prasību piemērošana X stacijai	Application of all BIM requirements for X station	Kompl/ Set	1	€ -	€ -
	STACIJAS BŪVPROJEKTA IZSTRĀDE KOPĀ	STATION CONSTRUCTION DESIGN TOTAL				€ -

BIM requirements



This is the official website of the Rail Baltica Global Project

Search ...


EN

ABOUT RAIL BALTICA BENEFITS NEWS & EVENTS PROJECT IMPLEMENTERS PROCUREMENT **INFO CENTRE**

RB Rail's BIM documentation

RB Rail AS is currently working towards implementing the BIM Strategy for the Rail Baltica Global Project. The information on the page will be updated regularly to keep you up to date as the project progresses.

DOCUMENTS




Detailed BIM Strategy

A general document that describes the BIM approach for Rail Baltica Global Project. This document sets out a detailed strategy framework for implementing Building Information Management (BIM) on the Rail Baltica Projects. It outlines the strategic BIM goals, defines processes, standards and protocols for the capture, coordination, management and delivery of digital information throughout the lifecycle of design, construction and operation of the assets being delivered.

This document is a part of Design Guidelines.

[Download the file here](#)




BIM Manual (v.18-04-2019)

This document and its supporting ecosystem of documents, forms and templates describe and provide the BIM Strategic processes and workflows to be followed by both Rail Baltica and the Supply Chain during the Lifecycle of the projects, being this ecosystem a live documentation that will evolve during the lifecycle of the Rail Baltica BIM program to capture technological and methodology advancements.

The BIM Manual documentation should be used for all the project phases. Primarily it focuses on the design process and we are continuing to improve it.

This document will be a part of Design Guidelines.

[Download the file here](#)




Building Information Management (BIM) Employer's Information Requirements v2.1

This document sets the requirements according to which the supply chain shall work with BIM systems in order to deliver information to Client – RB Rail or National Implementing Bodies.

This document is a part of Design Guidelines.

[Download the file here](#)




CAD Standards

These standards apply to all drawings (sketches, preliminary, detailed design, construction, shop drawings and asbuilt drawings) and CAD Data (2D or 3D) produced. The intent of these CAD standards is to provide guidelines to ensure that all drawings are prepared to a standard and uniform appearance and reflect high quality workmanship, and that data created by CAD systems is correctly structured and classified to facilitate re-use and understanding by others. This document is not related to any particular Authoring Tool and it will be each Supplier who develops a specific practical standardization for the Authoring Tool to be used in their project, taking as a base this documentation.

This document will be a part of Design Guidelines.

[Download the file here](#)



BEP Template

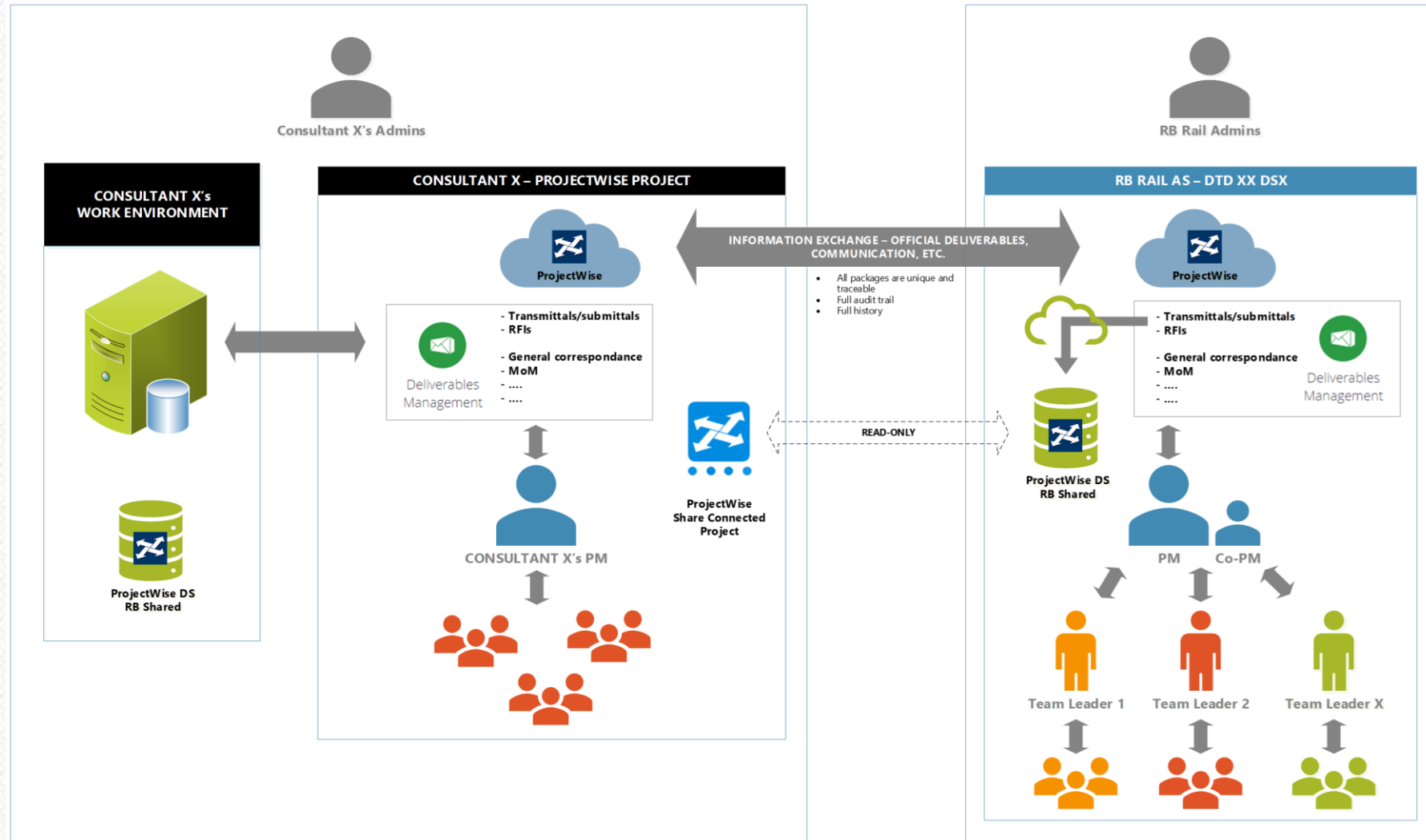
This BIM Execution Plan (BEP) template has been elaborated to be used as the basis for the post-contract BEP. It has to be prepared as a direct response to the BIM EIR and Technical Specifications. The Supplier shall fulfill all the required information in order to show their intention to comply with all the standards and procedures described in the BIM Manual. The Supplier is free to add extra information.

This document is a part of Design Guidelines.

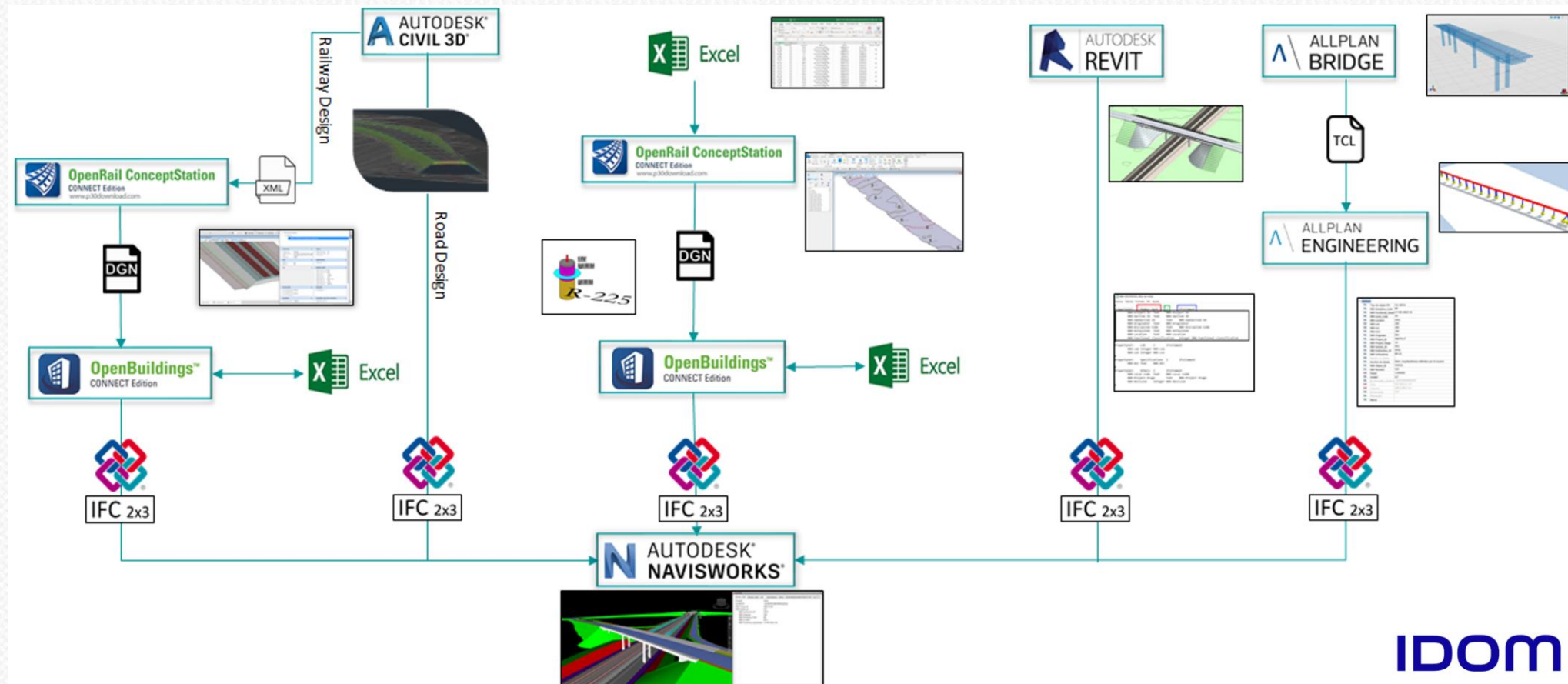
[Download the file here](#)

<http://www.railbaltica.org/rb-rail-as-bim-documentation/>

BIM requirements



Native BIM model with attribute data -> IFC -> Asset Register



IDOM

Native BIM model with attribute data -> IFC -> Asset Register

BIM attributes

Properties: Building Element Proxy (1 of 172) - filtered

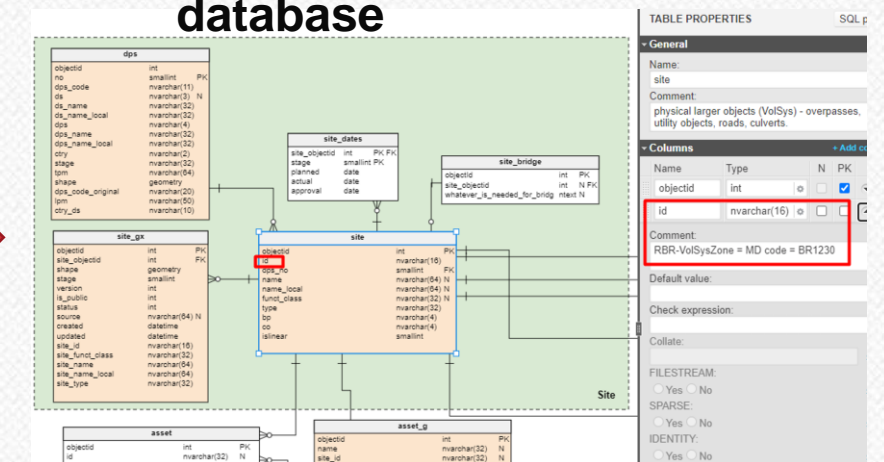
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RBR-Length	<no value>
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RBR-Location	0009
RBR-LoG	300
RBR-LoI	300
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RBR-Material_Designation	C30/37
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RBR-Number	<no value>
RBR-Object_ID	STR-FND-006
RBR-OCC	307
RBR-Originator	IDO
RBR-Position	A-2
RBR-Pr_Code	N/A
RBR-Product_Description	N/A
RBR-Product_Name	N/A

Properties

Item	AlipanAttributes	RBR-DATA	Material	TimeLine	IFC
Property		Value			
GLOBALID		1xQhCN8FDEDP5FZ5d2_vY3			
RBR-OCC		300			
RBR-Object_ID		STR-DCK-001			
RBR-Material_Description		C45/55			
RBR-Material_Designation		Post-tensioned Concrete			
RBR-Product_Name		Varies			
RBR-Product_Description		Varies			
RBR-Pr_Code		Varies			
RBR-Type_number		Varies			
RBR-Units		Varies			
RBR-Exposure		XC4/XD3/XF4			
RBR-Concrete_Volume		9474.36 m³			
RBR-Steel_Mass		2694373.80 kg			
RBR-Steel_Mass-Prestressing		604871.80 kg			
RBR-Reinforcement_Ratio		285.0 kg/m³			
RBR-Reinforcement_Ratio-Prestressing		65.00 kg/m³			
RBR-Project_ID					
RBR-Section_ID					
RBR-SubSection_ID					
RBR-Originator					
RBR-VolSysZone					
RBR-Location		0011			
RBR-Discipline_Code		BR			
RBR-Local_Code		SK			
RBR-Project_Stage		MD			
RBR-Revision		001			
RBR-LoG		300			
RBR-LoI		300			
RBR-Design_Life		100			
RBR-Start_Kilometre					
RBR-End_Kilometre					
RBR-Functional_classification		North			
RBR-Position		Post-tensioned Slab			
RBR-Type		Variable 4.15 - 11.15 m			
RBR-Depth					



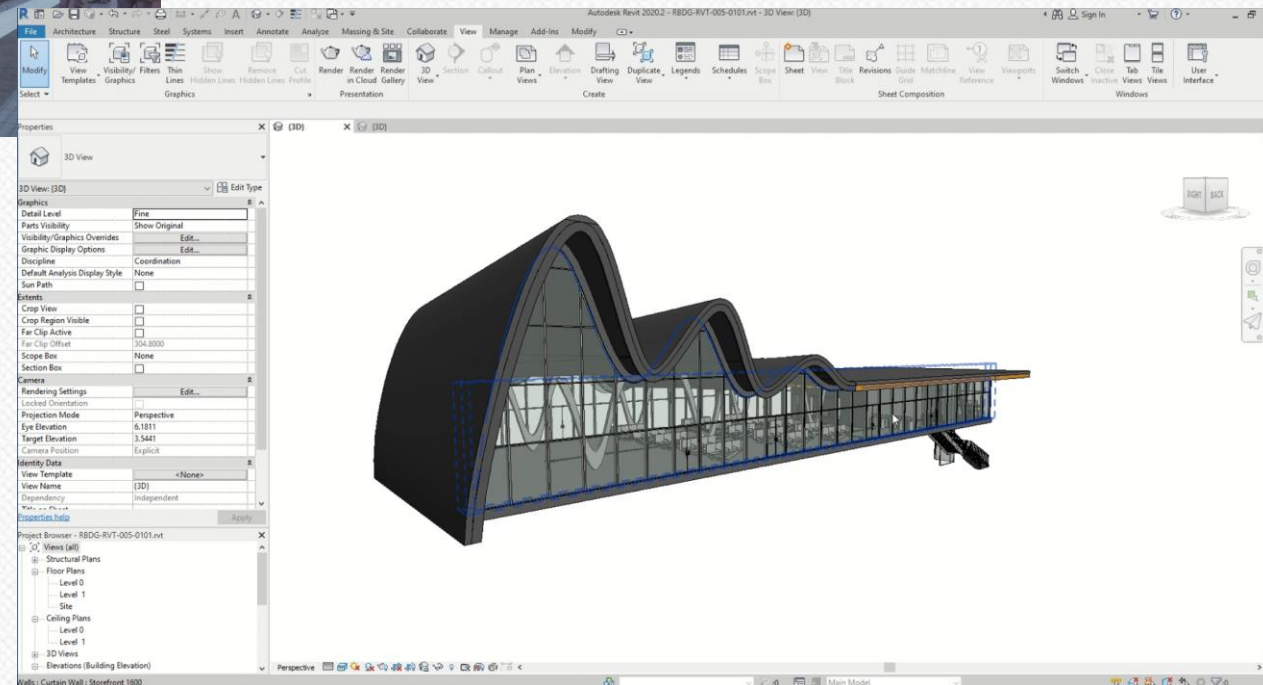
Asset Register database



References input data in DG



3D models from Architectural, landscaping and visual identity design guidelines as part of Design Guidelines





Part III

Per-station information



Station types

Type 2
Landmark station



Territory: 5750 m²
Vehicle parking: 30
Taxi parking: 6
EV charging stations: 6

Salacgrīva
 Torņakalns
 Imanta
 Bauska

Type 3
Basic station



Territory: 4600 m²
Vehicle parking: 20
Taxi parking: 4
EV charging stations: 4

Skulte
 Baldone
 Saurieši
 Jaunmārupe

Iecava

Vangaži

Type 4
Platform station



Territory: 3450 m²
Vehicle parking: 12
Taxi parking: 2
EV charging stations: 2

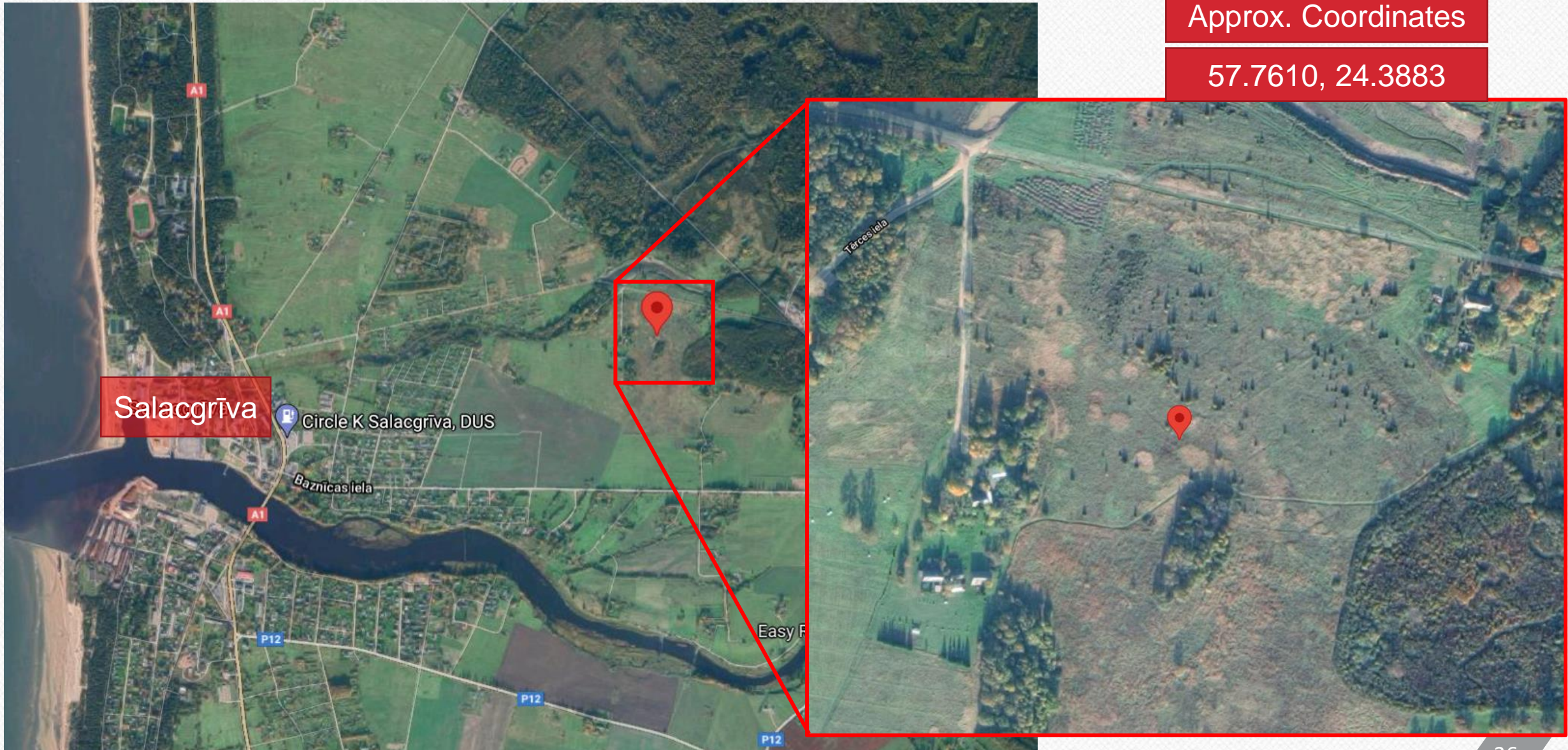
Tūja
 Salaspils
 Slāvu tilts
 Stradiņi/Āgenskalns

Zasulauks
 Olaine
 Ķekava

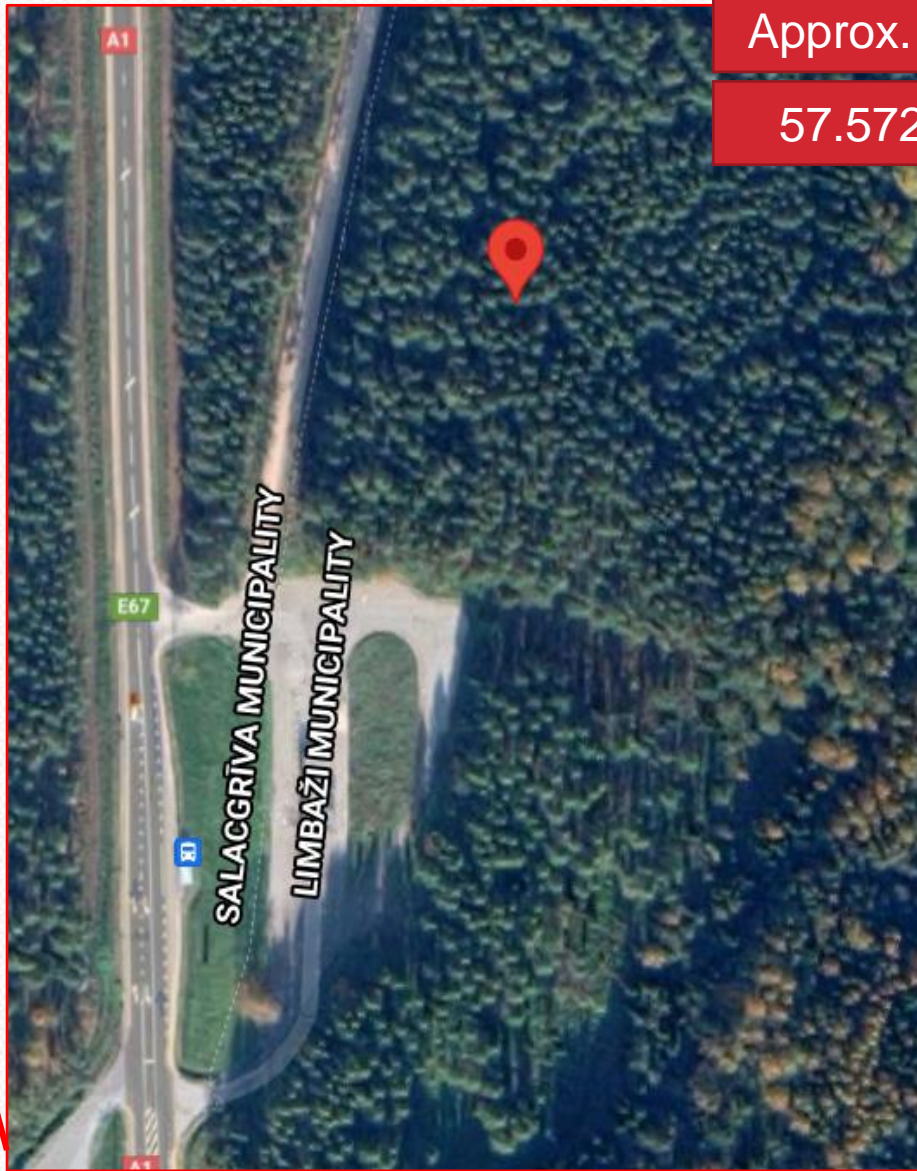
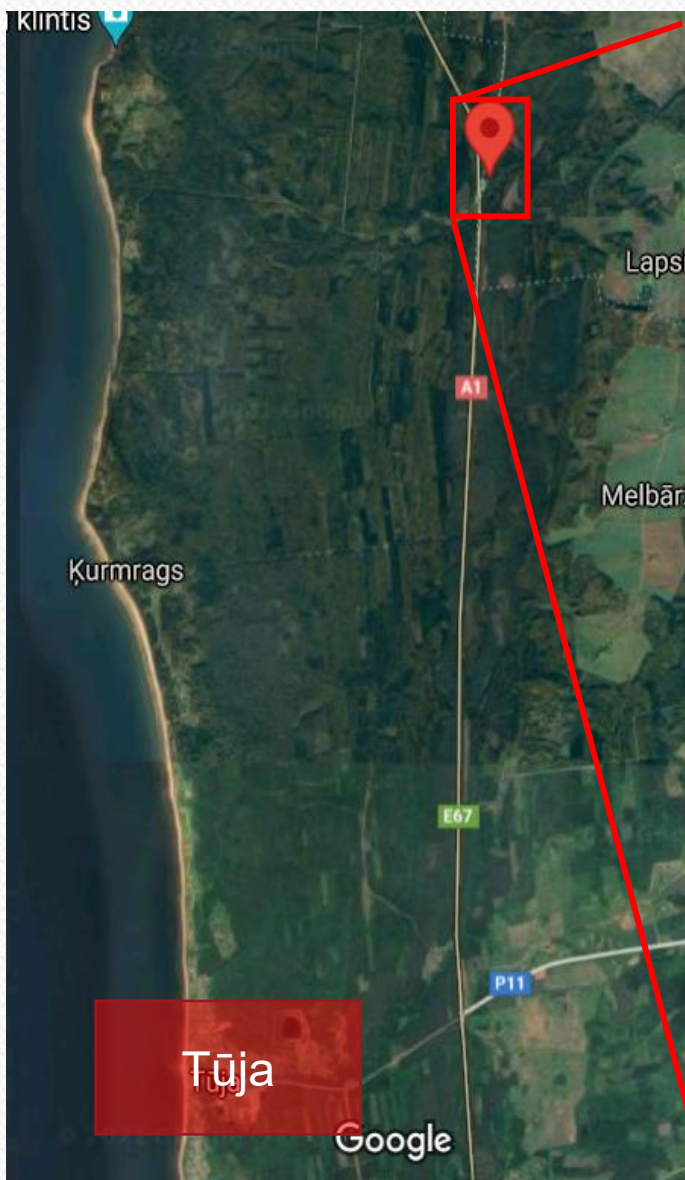
Salacgrīva station

Approx. Coordinates

57.7610, 24.3883



Tūja station



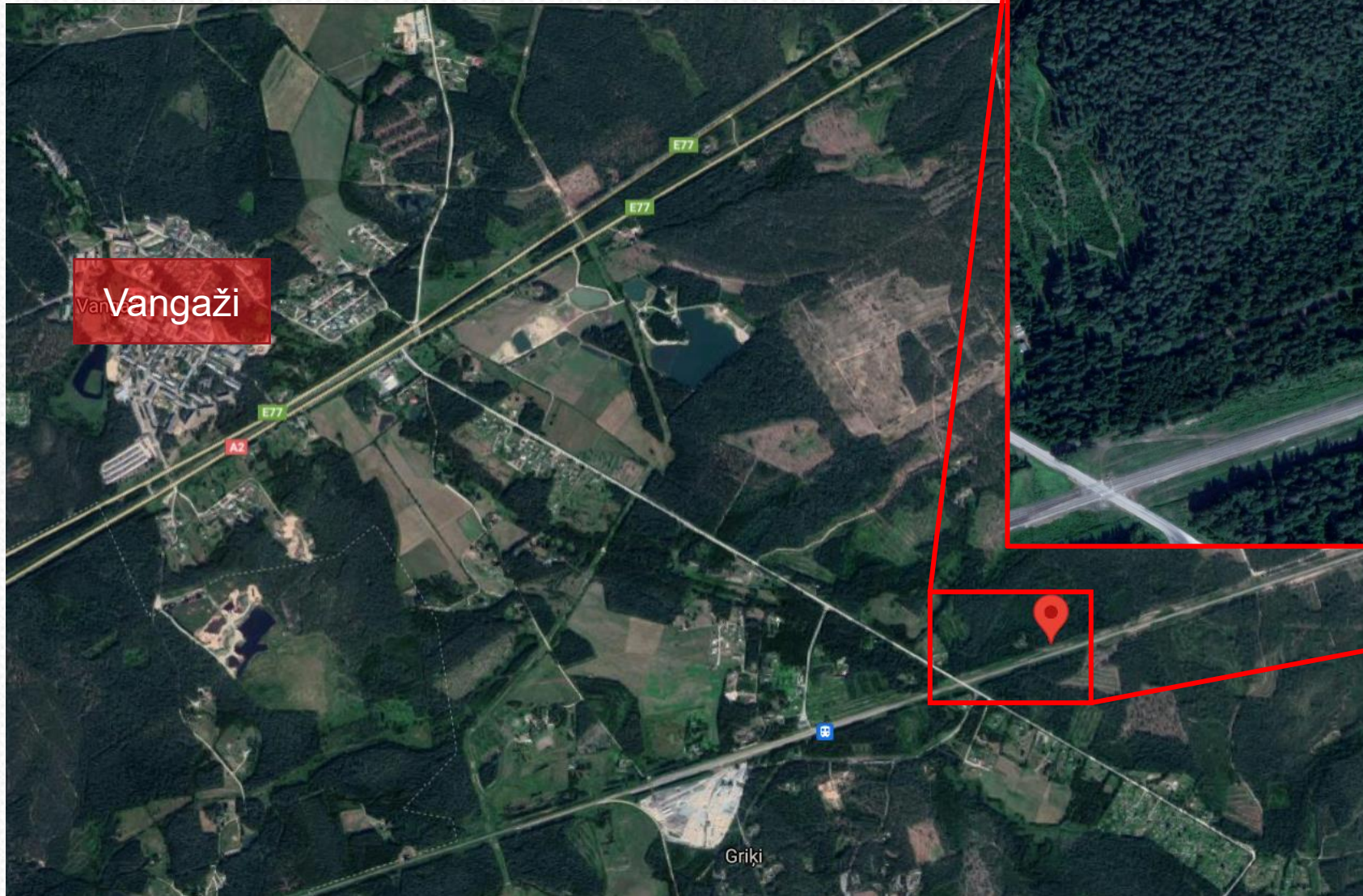
Approx. Coordinates

57.5722, 24.4361

Skulte station



Vangaži station



Approx. Coordinates

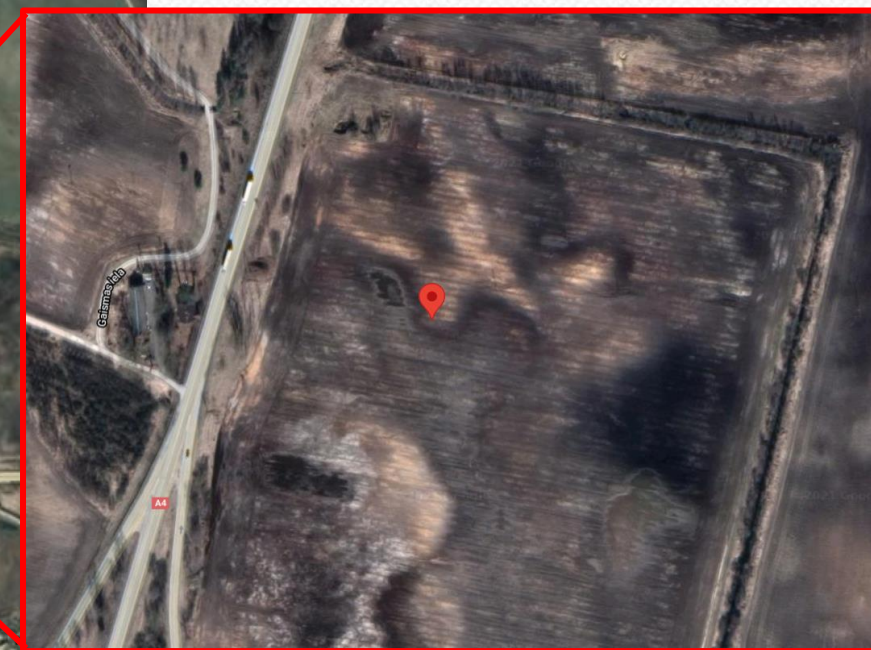
57.0818, 24.6030

Salaspils station



Approx. Coordinates

56.8502, 24.4011



Baldone station



Approx. Coordinates

56.7536, 24.3435

Baldone

lecava station

Approx. Coordinates

56.5832, 24.2745



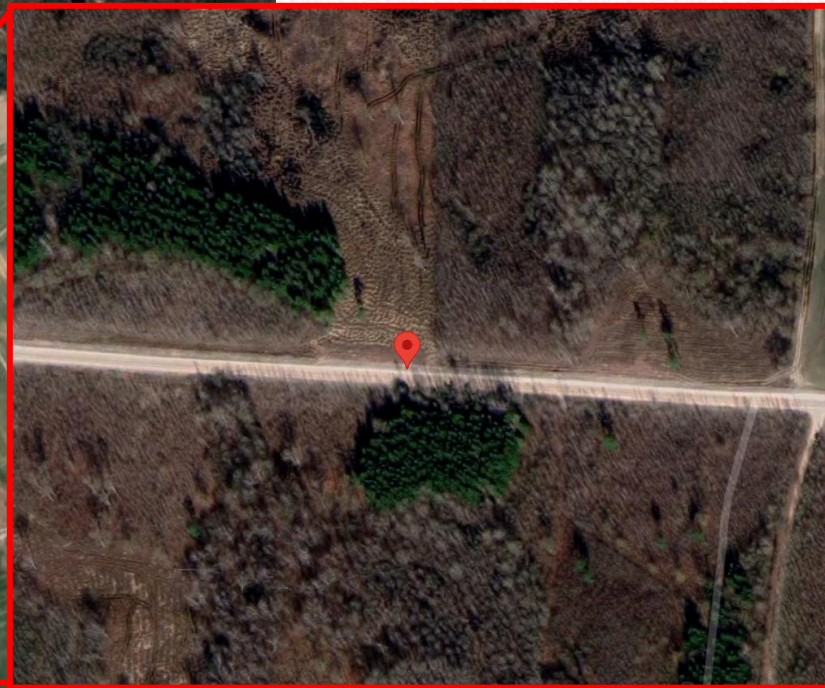
Bauska station



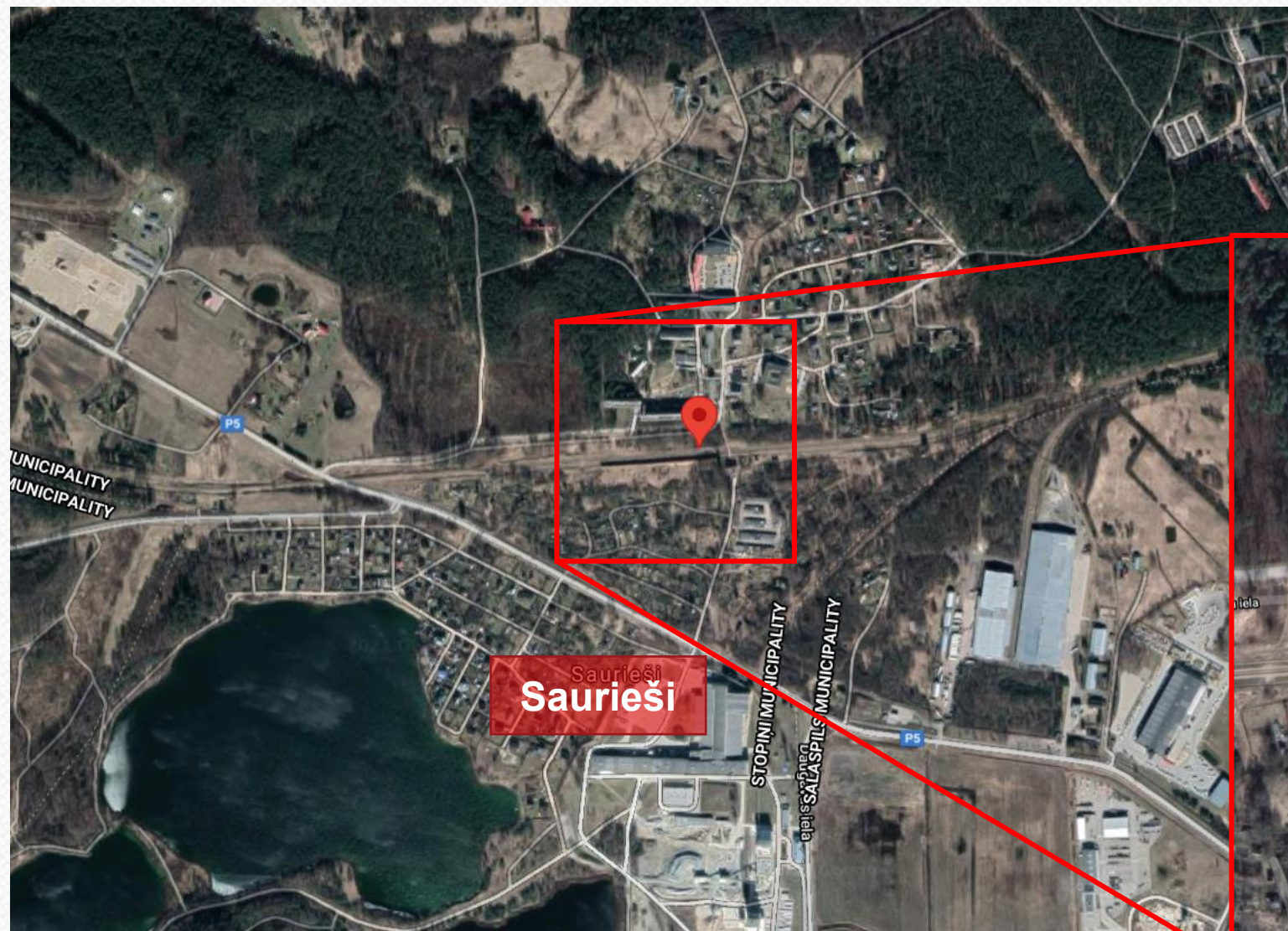
Bauska

Approx. Coordinates

56.3997, 24.2735

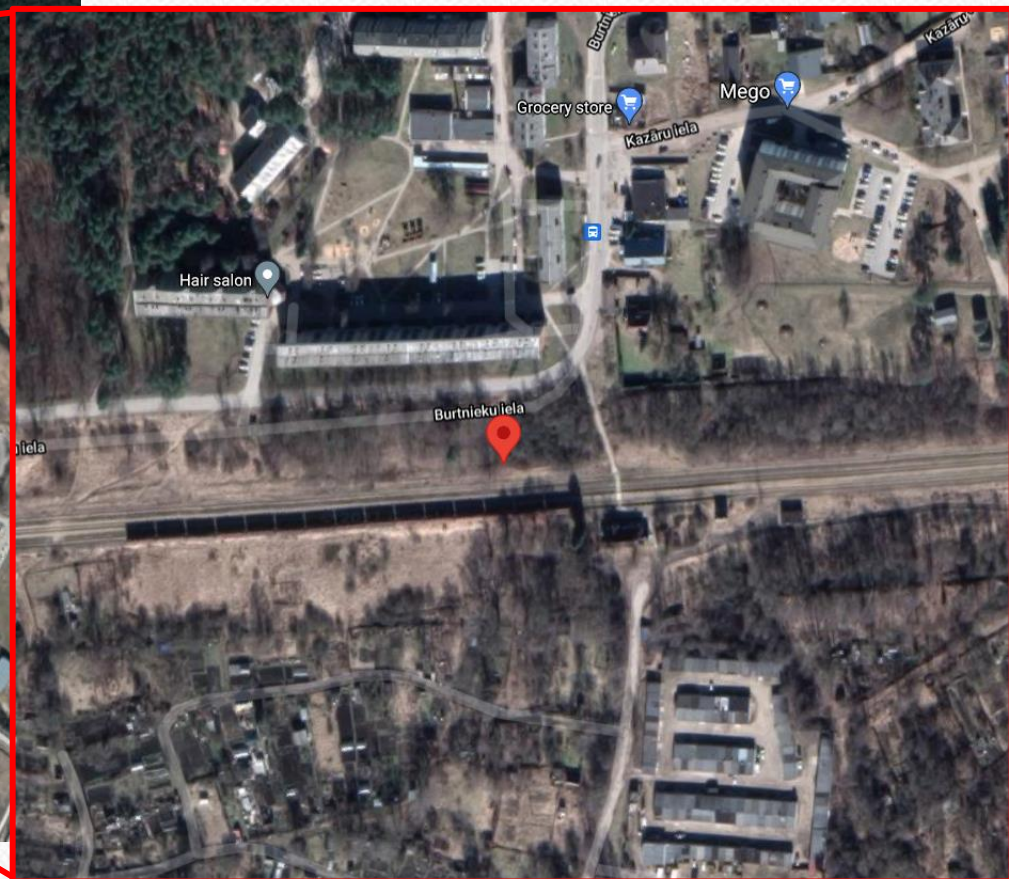


Saurieši station

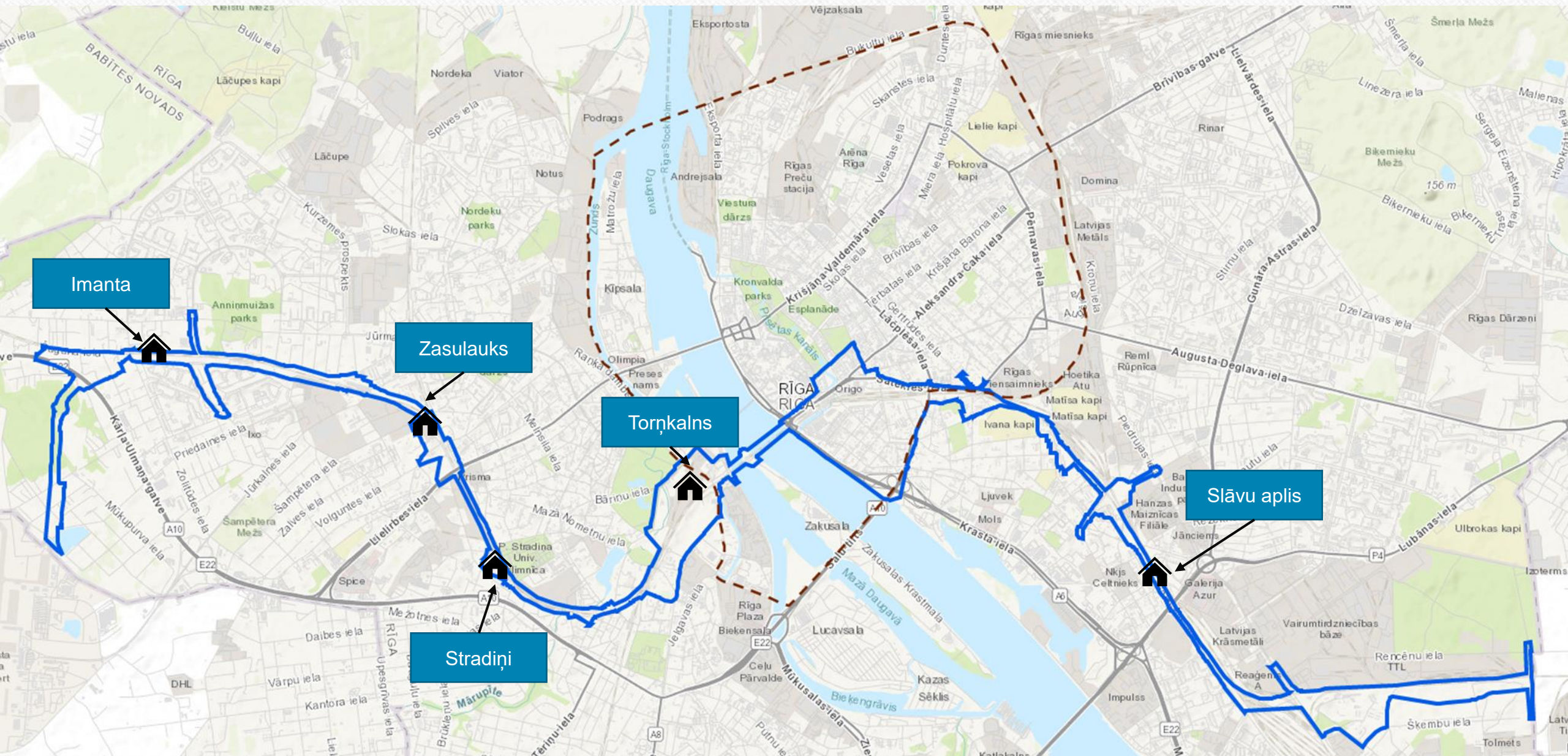


Approx. Coordinates

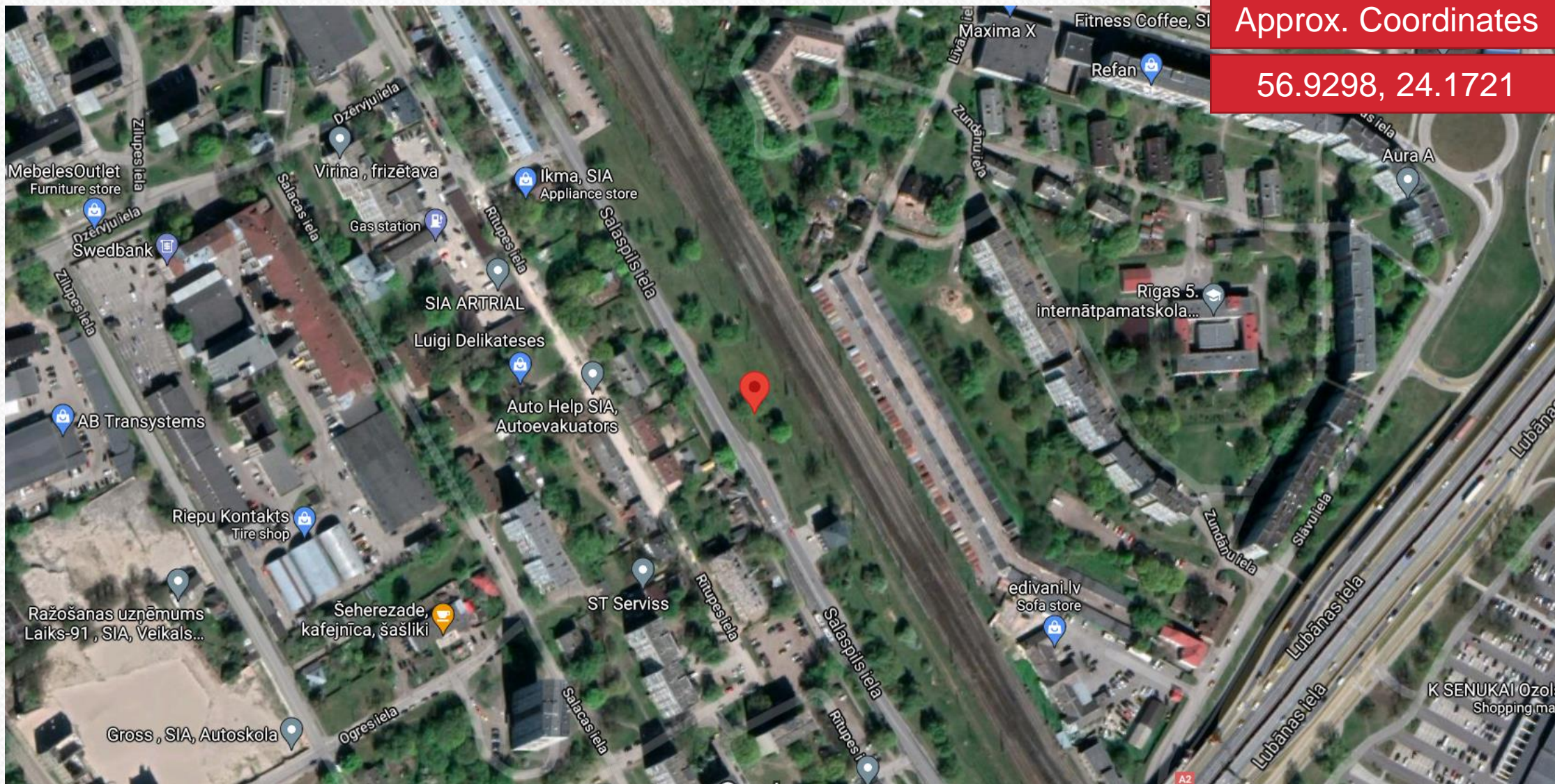
56.9172, 24.3612



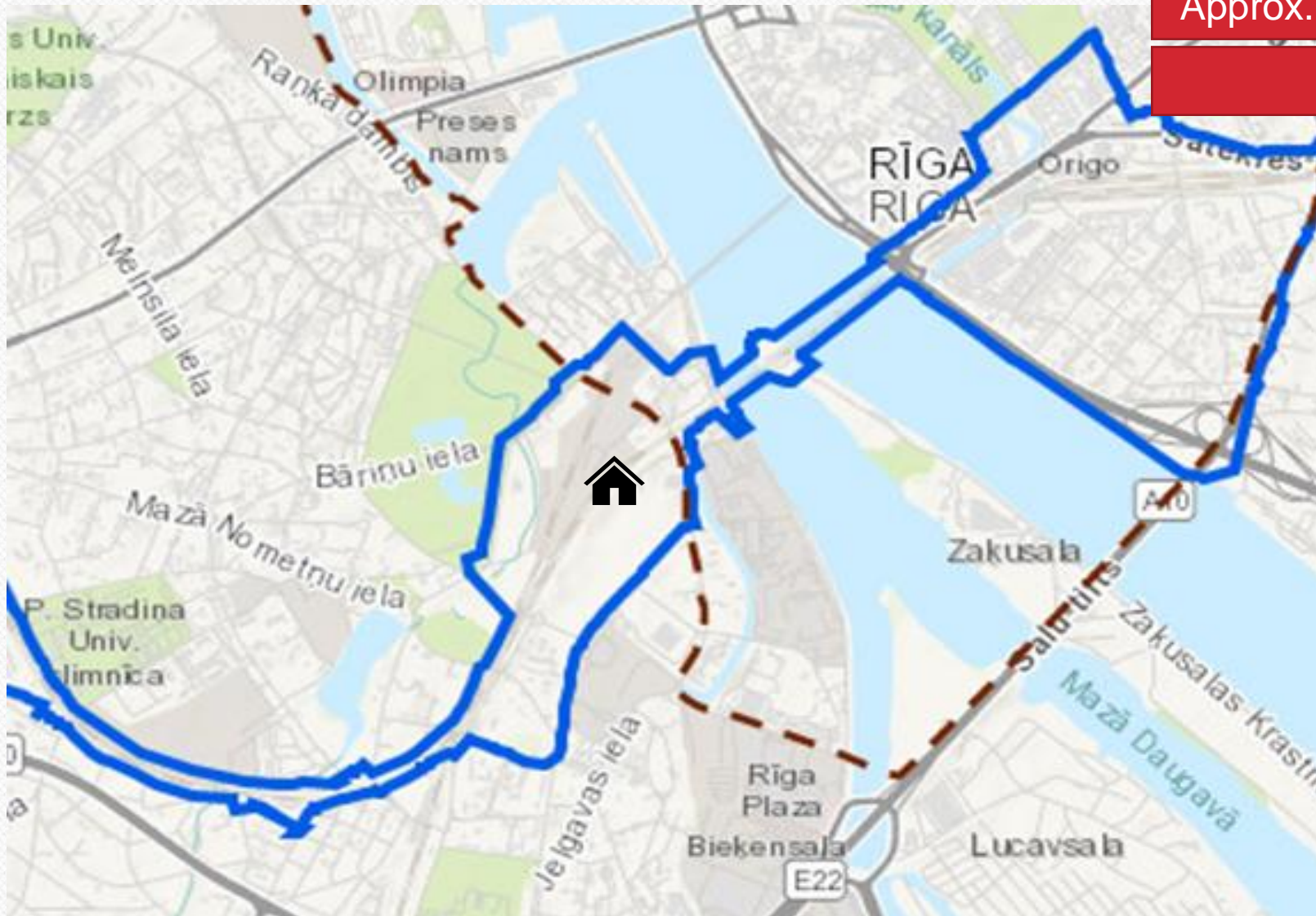
Stations in Riga



Slāvu aplis station



Torņkalns station



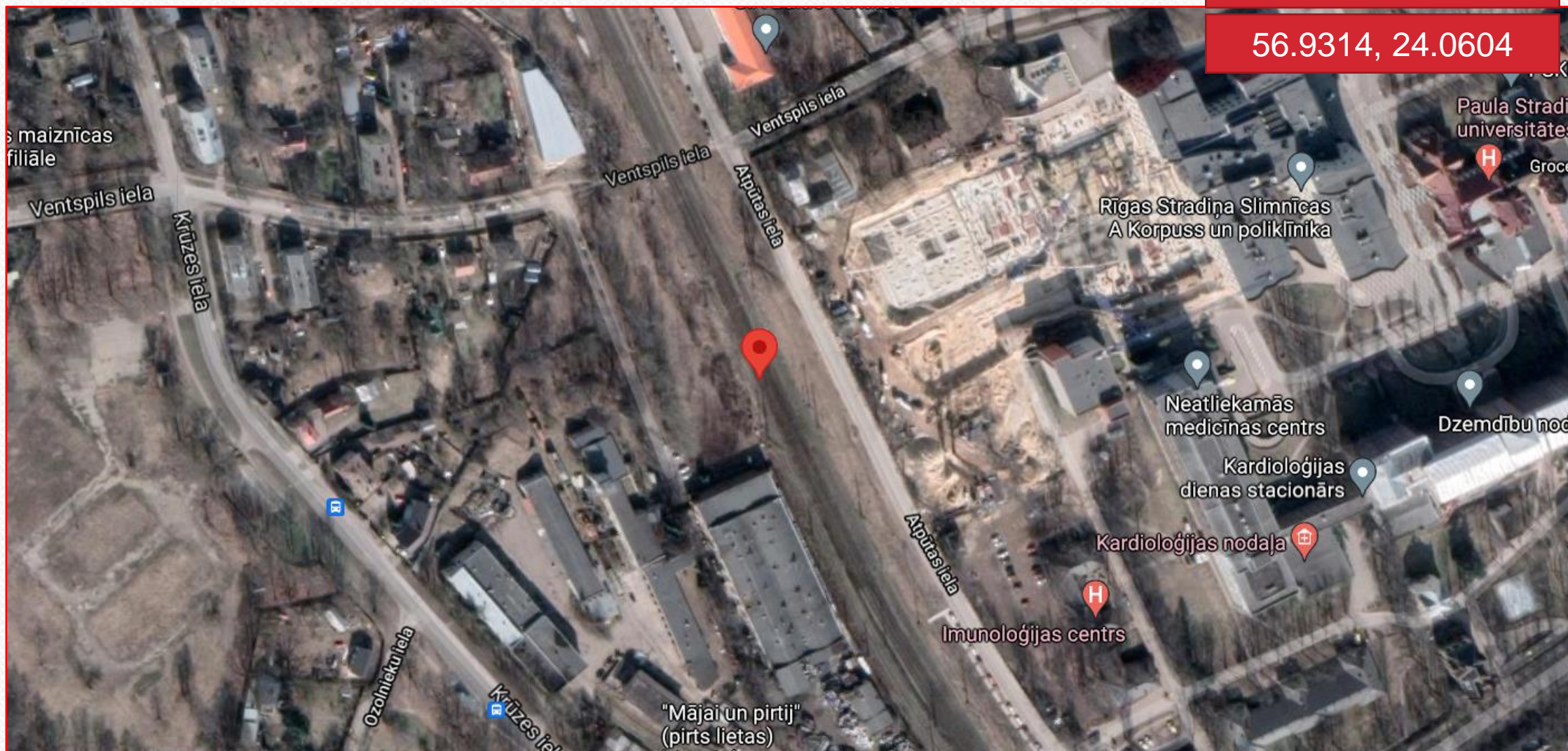
Approx. Coordinates

x, y

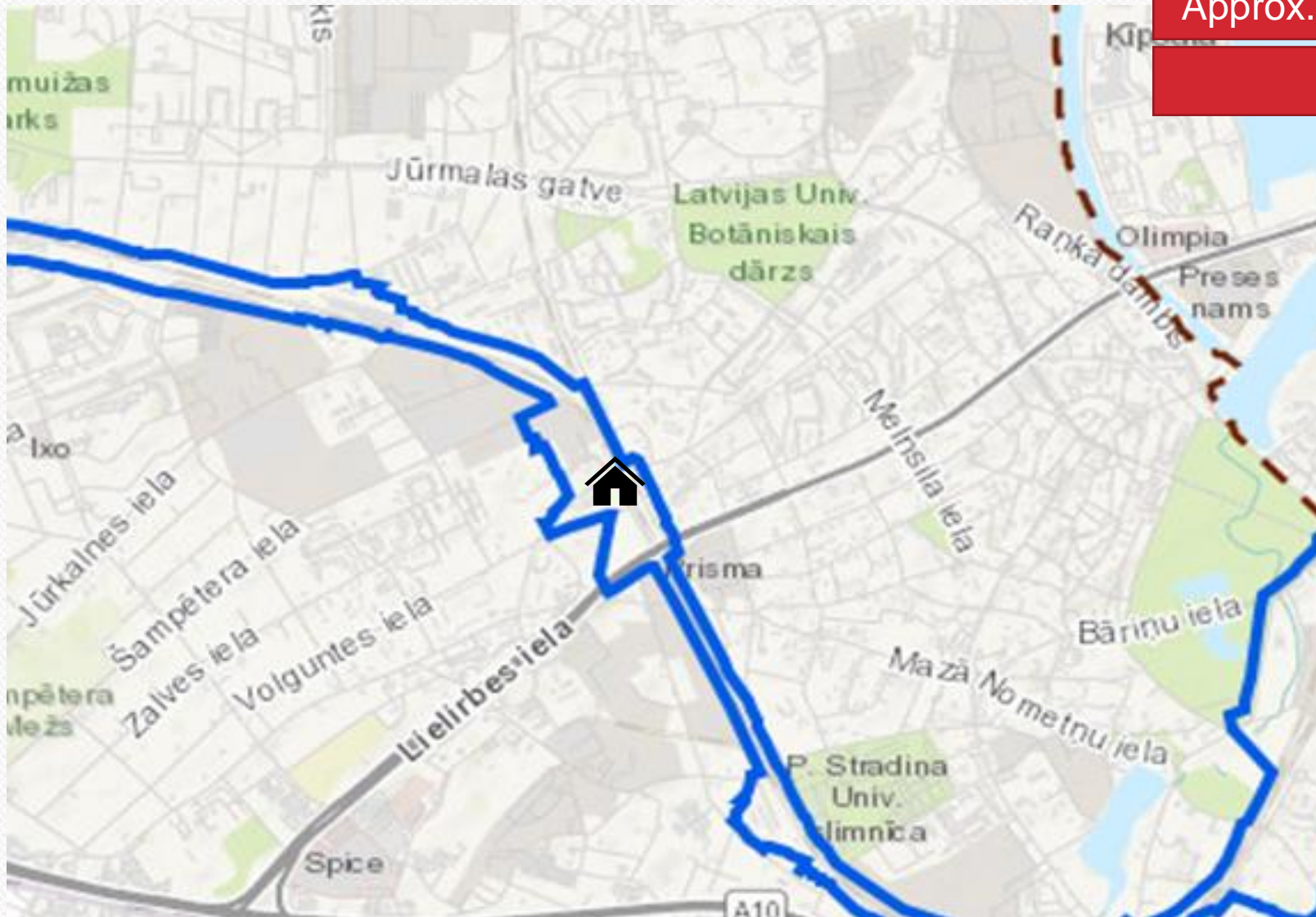
Āgenskalns station

Approx. Coordinates

56.9314, 24.0604



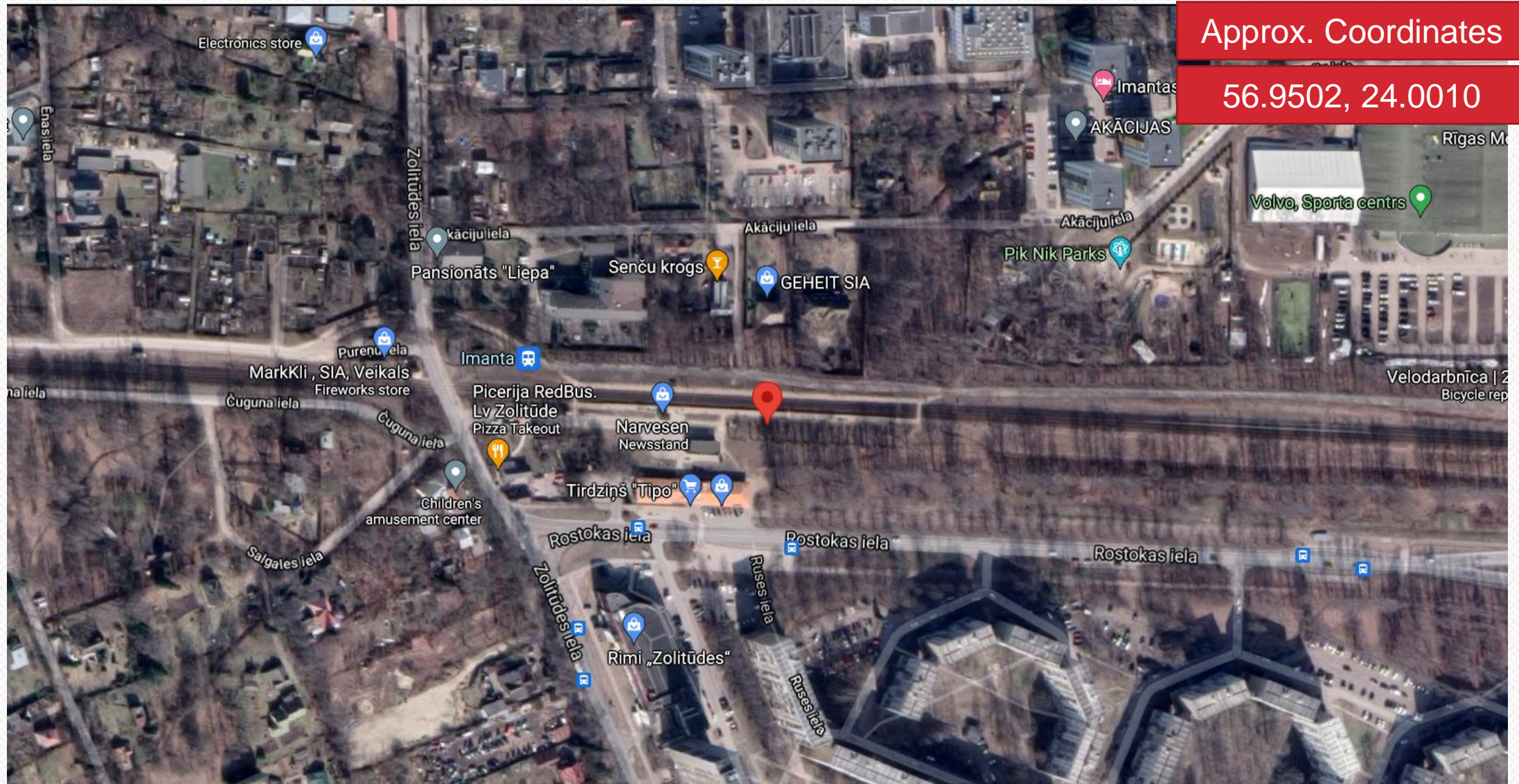
Zasulauks station



Approx. Coordinates

x, y

Imanta station



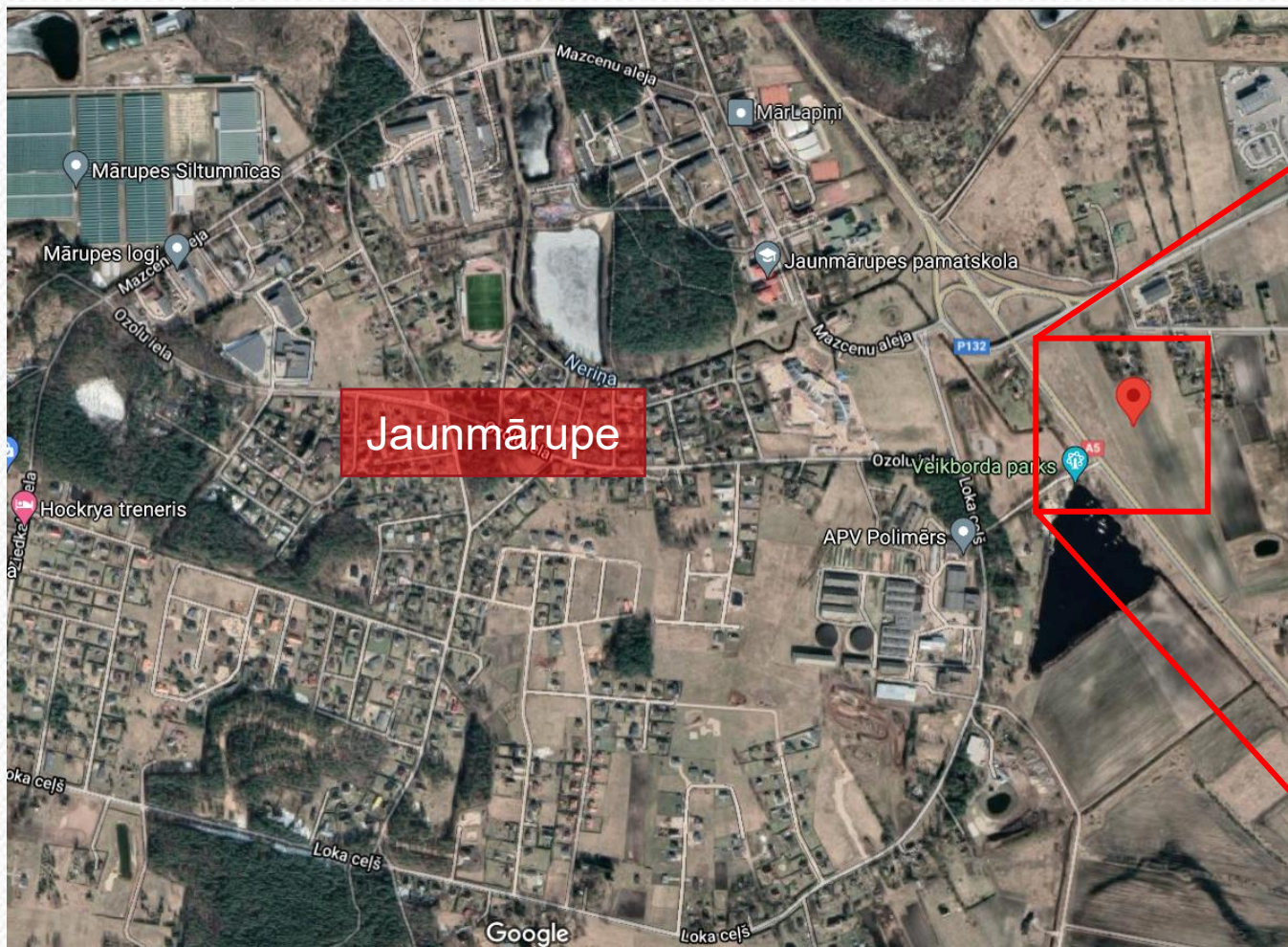
Approx. Coordinates

56.9502, 24.0010

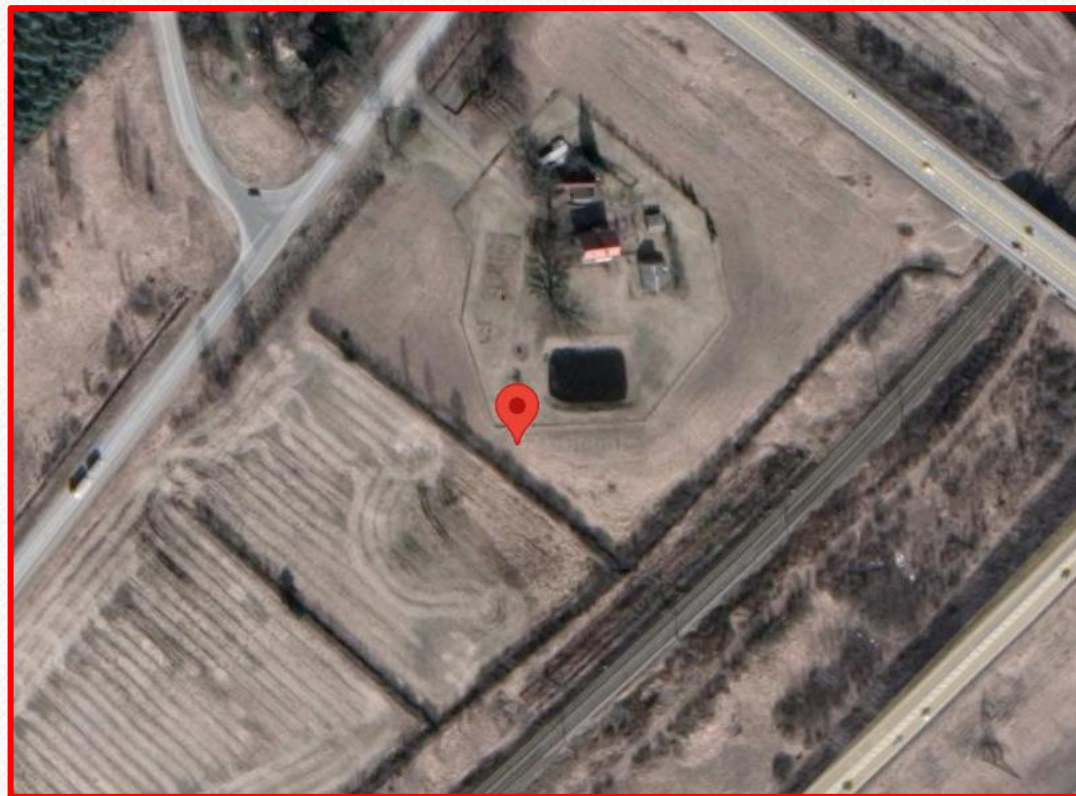
Jaunmārupe station

Approx. Coordinates

56.8762, 23.9577



Olaine station



Approx. Coordinates

56.8343, 24.0339



Ķekava station



Submitted questions (I)

	Question	Answer
1	Is it foreseen to have separate building permits for the stations or they will be everywhere part of the main line building permits?	It is planned to have separate building permits for each regional station.
2	Who is responsible for the management of the interface to ENE and CCS contractor (e.g. for CCS, definition of solution for platform screenwalls)?	Regional station designer shall provide interface management and cooperate with all involved parties, incl. main line designers. How wide and at what stages of design this cooperation will be shall be specified in Technical specification. Also see Question 11.
3	What will be the evaluation criteria for the bid? We recommend to have also a technical evaluation.	Procurement commission is considering also a technical evaluation. The participants are welcome to provide feedback on Rail Baltica tenders (which criteria "work" or not and share best practices from their viewpoint. The Commission will collect these suggestions and carefully evaluate them. We cannot confirm any technical evaluation criteria currently.
4	The station design consultant should have experience with designing stations along a high-speed line. Can you confirm?	Procurement commission is working on development of qualification requirements at the moment and will set appropriate and proportionate requirements.

Submitted questions (II)

	Question	Answer
5	Will the liability be limited to the contract value?	Currently, the contracting authority can't give a specific answer on the expected limits of liability as the draft contract isn't ready yet.
6	Will it be required to perform geological investigations or those will be provided by the main line designer?	Geological investigations will need to be carried out. If any are made available by mainline, they will be reference material only.
7	Will the design phase and the survey phase be separated? We recommend to first have a conceptual verification phase, survey phase and then the detailed design phase.	The Procurement Commission will consider this suggestion for inclusion in TS. We kindly ask other participants to share thoughts in on the question.
8	Will it be necessary to have a certified designer?	Proposed designers must be certified according to Latvian legislation to provide services mentioned in contract. During procurement stage designers can be not certified, but they need to have appropriate experience and education to receive appropriate certificate henceforth.

Submitted questions (III)

	Question	Answer
9	What will be the overall timeline?	Contract execution is 20 months. Detailed breakdown shown in presentation.
10	Who will design the roads, connecting the station with the existing road network?	The winner of this planned tender up to roads already existing or planned in mainline designs.
11	How the interface with the infrastructure designer of the main line will be managed (e.g., designing pedestrian underpass through the embankment?)	The specific interface management matrix is in development; however, it will be the designers Interface Managers responsibility overall.
12	If you could clarify if the procurement is for the construction documentation and supervision of already designed stations or if refers to the full scope of design including concept?	The procurement is for finalising conceptual designs to full 100% design detail.
13	I'd like to ask about potential conflict of interest in future "Supervision of Works" tenders in RAIL BALTICA project. The interested supplier is also interested in the upcoming Supervision of Works for the track of RAIL BALTICA main line. I'd like to know if there will be conflict of interest with the designer for the regional stations.	<p>At this stage of the procurement, the Contracting authority cannot give an unambiguous answer to the question.</p> <p>If the Regional station designer will submit its application/offer in the possible procurement for the supervision services of the Rail Baltica main line infrastructure construction, the contracting authority will have to assess the specific factual circumstances.</p> <p>This includes also a possibility to request the tenderer to submit evidence that the prior involvement of the tenderer or the legal person related to the tenderer in the design of the regional stations does not unduly restrict competition in the abovementioned procurement for the supervision services of the Rail Baltica main line infrastructure construction.</p>

THANK YOU
Questions?

