Conservation and Development Guidelines of the Historic Green Structure of Duke Jacob’s Canal

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Abstract. The western and northern parts of the historic center of Jelgava forms a landscape in which there is preserved evidence of cultural and historical objects representing different centuries. The identification, restoration and preservation make it possible for the town to recover identity of its landscape space. The research includes analysis of the former Duke Jacob’s canal with the pre-war and current structure of the buildings and the green planting zones, partially restoring the historical bed of the watercourse. The rows of trees along the canal, the green slopes of the banks and the pedestrian bridges until the 30s of the 20th century brought in the town’s dense building an aesthetically high-quality green space for recreation.

Keywords: cultural-historic landscape, nature base, sightlines, urban landscape space.

The urban structure has been created over several centuries and shaped by different societies. It is built not only to meet the practical needs but also the social and aesthetic requirements [1]. The aesthetic quality of the environment is evaluated based on two key elements:

- the formal properties, which focus on the physical characteristics and how they contribute to the aesthetic response (scale, shape, contrast, etc.);
- symbolic or associative properties view factors that through the experience create connotations (identity, laconism, etc.) [1].

The urban constructional space is formed by the western and northern parts of the historic centre of Jelgava town with the survived testimony of both the human plans to transform nature and objects in the historical and cultural context describing different centuries. Maintenance of the urban identity, primarily, is associated with identification, restoration and conservation of objects in the cultural and landscape context, as well as a thorough care and protection of the landscape space characteristic of this site.

Preservation and development of the cultural and historical heritage of Jelgava town is included in the spatial planning documents of the town, where one of the key aspects is to recover the urban green veins, which were vividly expressed in the pre-war years.

The purpose of the article is related to evaluation of the proposal of the green plantation renewal and a more detailed study of the urban housing in the western and the northern parts.

The town’s historic centre as a monument of the urban construction protection contains areas of a number of old housing blocks, where only a few buildings survived as the town burned down during the war. Losing huge building areas, each of the old buildings that has escaped from falling to pieces, today is of a particular importance. The same is true for the green zones as in the post-war years with a change in the structure of the buildings
Next to the flood-land there is the park of Old Ģintermuiža with buildings. The park’s area is occupied by a landscape area, which is 400 m long, the north-western part of which along the canal banks today is gone. In the 80s of the 20th century, at this location about 200 m in length there was forming a new individual building area connecting the low-density housing estate of the 90s of the 19th century. Thus, a continuous one-piece landscape has been obtained that continues or extends the historical area. In the park of Ģintermuiža, there are separate groups of old trees that are adjacent to the right bank of the former canal to form against the longitudinal axis of the canal perpendicular green view spaces. They feature the separately placed historical 2-storey wooden buildings (the 10s, 20s of the 20th century). The manor area is enclosed by a stone fence, which is parallel to the longitudinal axis of the canal and rests 80 m from it. Clearing the view lines from the former canal location (shrub trimming, removal of tree seedlings, etc.), it is possible to recover a high-quality historical space, the expressiveness of which would also compliment restoration of the adjacent wooden buildings. In the view points from the canal location, the stone fence and the building of the old manor would be viewed. When restoring the canal bed in the area of the manor park, the carriageway of Dambja iela (street) should be built on the left bank of the canal so that the transport zone does not split the watercourse from the park’s landscapes. In the 60s–70s of the 20th century, constructing Dambja iela, the old trees were cut on the banks of the canal. If they were planed again, it would continue the historic pedestrian promenade up to the flood-land of the Svēte River. By recovering the manor landscape space with the canal, the western area of the urban environment would be supplemented by a new green wedge-type area.

In the northern part, the area of Ģintermuiža is separated by the town’s ring road, which in the 500 m section connects the residential high-rise area of the housing estate with the mansion area and the shopping centre (the northern-southern axis). In turn, the bed of the former canal (on the western-eastern axis) with the present tree lane would form the so-called green backbone, which connects to the side streets with lines of trees, gardens, etc.

It is possible to develop the continuation of the manor park area on the opposite side of the ring road, which is now a vast meadow, and designing it as Mežaparks, thus, extending the green wedge towards the centre of the town, which more convincingly would emphasise expressiveness of the cultural and historical landscape. Currently, the ring road cuts the historical green space and stops its seamless arrival into the urban environment. It is possible to build the ring road as a green ring, designing the road-lines of tree plantations and separate groups. It is based on the aspect that the ring road is placed very close to the town centre. In the perspective, the road transport load or intensity will increase several times as the arch branches with roads of an international significance leading to Lithuania, Riga, Liepaja. It is, therefore, necessary to reflect on the green planting line and the area, where one of the town’s elements of the landscape space is the historic canal area.

In the direction of the town centre from the ring road to the town’s rampart (800 m), the former canal bed (currently Dambja iela) is surrounded by the post-war mansion buildings with gardens and tree plantation lines. One of the historical houses of the canal embankment at Dambja iela 17 is restored (the 90s of the 19th century), which vividly highlights the nature of buildings of the time gone by – as a filled framework building with wooden bearing walls and clay brick fill but the roof with clay tile covering.
The old buildings and their scale along the canal can be seen in the small side-streets leading to the waterfront (Kungu iela 10, Kungu iela 12, etc.), where there were wooden strut framework buildings with gabled ridged roofs. The old historic downtown buildings were constructed in a low density configuration with beautiful apple-tree orchards around, which together with the canal plantations, formed a unified green landscape space. It was particularly scenic in the spring when the fruit trees and bird-cherries were in bloom.

The buildings’ height changed in the 30s of the 20th century with the construction of four 3-storey buildings by the canal for the needs of the Latvian army infantry regiment (300 m before the rampart place). In turn, in the 70s of the 20th century near here 5-storey and 3-storey buildings were constructed. The height disproportion of the existing buildings is successfully masked by a solid linden line. On the opposite side of the canal, wooden buildings of the beginning of the 20th century are preserved. In this place, the running of the canal reached the former place of the canal and formed an extension or the so-called pond, where traders from boats unloaded goods needed for the townsfolk. The pond size was sufficient for boats to dock and turn around. In this place, historically, the urban space created a number of small street splits: J. Asara – M. Dambja – Vecpilsētas – Dobeles – Lielā – Kr. Barona iela, along which there were warehouses and small traders’ shops. It forms the so-called western gate of the town. After World War I, the canal was gradually filled up in stages, starting from the Svēte River side as in hot summer it dried out, its bed forming water drift decomposition.

Currently, instead of the pond there are crossroads of streets and a square, which marks another important green landscape space alongside the high-rise residential buildings. The square’s place is a point, at which the longitudinal axis of Lielā iela forms a rotation angle and there the distant lines can be viewed, where the street tree planting lines dominate, creating a green transport corridor of both the eastern and the western direction. Thanks to the street planting density (in the eastern part), there are architecturally expressionless forms of the post-war years (the 50s of the 20th century). Next to the square – the longitudinal axis of Lielā iela and the traffic flow are divided by the green planting area, which even more clearly marks the former pond and the town’s rampart place. As a vertical accent in this view point there is the spire of St. Ann’s Church next to it. The western part of the church garden or the left embankment of the former canal connects the downtown streets with the historic wooden buildings (the 90s of the 19th century) – wooden framework buildings, where each building’s plot of the backyard ends up with woodsheds. The street is not characterized by tree plantations but by wrought granite cobblestones.

The second parallel street that connects to the left promenade side of the former canal is Jāņa Asara iela with wooden buildings and with a line of tree plantations of the post-war years. The buildings mark the line of the old rampart. Here a 400-year-old willow is also preserved with a thick canopy of leaves the branches of which suffer from the wind gusts every year. The height of the tree crown along J. Asara iela is now too wide, it hides the historical wooden buildings when entering the town from Dobele. In turn, the small lawn area (60 m wide) next to it should be used as a foreground marking the historical urban space. It is recommended that the separating tree plantations are placed in the area of the gasoline filling station, thus masking in the main view points the overwhelming vehicle area.

The landscape space of the former canal is also complemented by the narrow M. Dambja iela, which overlooks the romantic view of the spire of St. Anna’s Church.
From the former place of the town rampart, in the direction of the historic centre – the canal becomes a walking place or a promenade typical for the town recreation (the present Kr. Barona iela). Although, the town’s rampart was considered the town’s suburban area, however, there lived well-off people, who built there luxurious wooden architecture houses. Some of them have survived in Vecpilsētas iela No. 8, 10, 12 as witnesses of the late baroque period buildings.

At the former rampart of the town, there was the garden of St. Ann’s Church, the greenery of which visually merged with greenery of the canal embankment. In this section, the watercourse was not filled during World War I. Besides, the photos show that the embankment of the canal was a popular walking area from the Latvian St. Ann’s Church to the German Trinity Church.

The promenade of the canal embankment was decorated with linden tree plantations, small wooden bridges and the green slope of the embankment together with the buildings created a romantic urban space. Currently, the church garden and the linden plantations of the former canal remain. The canal created a distinctive urban “green-blue backbone”. Currently, the old riverbed site connects to the perpendicular street tree plantation lines (Jaunatnes iela, Pasta iela, Mātera iela) and the high-rise residential backyard tree plantation groups.

Looking at the historic canal bed in its full length and including it in the urban area development concept, the canal landscape space has to be broken down into a number of green areas:

- the mouth area of the former canal near the flood-land meadows of the Svēte River;
- the cultural landscape space (Ģintermuiža parkland);
- the section of the former watercourse near the present town’s ring road – the meadow landscape with long landscape lines to the historical Ģintermuiža Park;
- the landscape space of the south-western part of the canal consisting of the side-street connections with gardens (Kungu iela, Egas iela, Skolotāju iela, J. Asara iela);
- the tree lane of the canal promenade (Kr. Barona iela) and the garden context of St. Ann’s Church in the structure of the rural buildings;
- the greenery area of the canal embankment along the industrial heritage and the green area of the backyards of the rural buildings;
- the greenery areas of the square of the House of Culture and the central square (from Pasta iela up to Uzvaras iela).

Inclusion of the above-mentioned green landscape space in the rural environment is also important if in the coming decade the canal bed is not renewed.

Prof. Ivars Strautmanis has defined the fundamental architectural and environmental coexistence options:

- integration – a particular landscape is not destroyed but rather transformed so that interaction with the new spatial structures achieves a higher degree of the harmonic unity;
- subordination – when the given landscape components are formally subject to the new buildings’ structural peculiarities;
- integration – integrating all the major factors of the rural buildings [2].

The expressiveness of the canal is also emphasized by the Old Market Square with perimeter buildings. The canal ended with a pool in the square, which visually supplemented the compositional expressiveness of the urban space. The tree plantations in the square were located only at the Town Hall, so laying emphasis on the town’s main line of the buildings in the square.

The transformation process of the urban environment is affected by the disappearance of the historical area of buildings during the war years, and in its place in the 60s of the 20th century about 60 trees were planted. They have already reached the scale of the branches, and therefore a disproportion is created with the adjacent buildings. In particular, this applies to the groups of birch-trees. The historic square has also changed the vertical mark of the height obtained by levelling the building ruins in 1945. The green square in the town centre still retains a temporary nature. Reconstruction of the centre was not possible up to the 90s of the 20th century. In turn, now there are organized idea contests of the young architects, searching for a synthesis between the historical building space scale including the existing square greenery. Some of the architects’ ideas include the restoration idea of the historic canal and basin in the square. The reconstruction projects also consider the existing tree plantation groups between the historic square and the canal intake in the Driksa River. At present, there are garages, the removal of which would give an opportunity to develop the green recreational space, which would connect to the Driksa Promenade.

The tree plantation lines of Duke Jacob’s Canal and river embankment as a kind of the “green-blue fingers” brought veins to the town which, together with the buildings, created a picturesque street landscape silhouette view lines from the bridge and the garden of the palace [3]. At present, the reconstruction project of the Driksa Promenade is carried out by replacing the old trees with a new greenery and by strengthening the left bank slope and creating a number of recreation areas. In turn, for the renewal of the bed of Duke Jacob’s Canal and the tree plantations, a number of sketch designs have been developed, which are included in the further development of the urban space.

Breaking down the town rampart at the beginning of the 19th century, on the left side of Duke Jacob’s Canal, a new functional zone – the industrial area – was created (the Kramer’s metal factory and leather processing unit) [4]. Geographically, this place was located in the western part of the town, from which the trade route lead to the ice-free port of Liepaja. The construction volume was sufficiently distanced from St. Ann’s Church and they did not compete spatially with the church.

In contrast, in the post-war years (the 70s of the 20th century), in developing the production, the factory got a huge building height, which disrupted scale and proportion of the historical space. The tree plantations along St. Ann’s Church (Kr. Barona iela) were unable to mask massiveness of the 150-m-long building volume. In turn, the old church garden trees in the southern side of the church with the huge canopy of leaves screened the facades of the church at the side of Liepā iela. The planted trees around 1970 in Jaunatnes iela have reached a great height at present, in its pedestrian zone the view lines on the factory building volume hide behind the green foliage.
The other craft centre of the industrial heritage (approx. 100 m from Jacob’s Canal) – built in the 90s of the 19th – has saved the compositional expressiveness of the 2-storey brick architecture and as a cultural heritage fits well into the urban environment. The area, historically, did not have tree plantations as it stood just outside the city walls in the pasture meadows. Currently, there are less dense buildings without specific lines of street tree plantings.

With the development of production areas along the canal bed, small workers’ residential developments also arose. Mostly, they were 1-2-storey wooden buildings along Ausekļa, Kazarmes, M. Dambja, J. Asara, Kārļa and Lapškalna streets [5]. The streets were narrow as only two horse carts could exchange. None of the streets had tree plantations. In turn, in the backyards of the houses, there were household buildings with a small garden. Factory workers’ houses concentrated in the northern part of the town, which relatively, according to the height marks, was a lower and wetter place, and flood waters stayed there the longest time [6].

In the post-war years, with the changes in the street network of the central part of the town and creation for it new tree plantations in the 50s, 60s of the 20th century, the main town landscape designer Jānis Liepiņš successfully masked the impersonal standard building architecture in Lielā iela, Rīgas iela, Pasta iela, etc. Comparing the town’s main transport motorways – Dobeles iela and Lithuanian Highway – with Dambja iela (the former bed place of the canal), it can be concluded that the historical canal greenery street is the most expressive and picturesque.

City Council of Jelgava, organizing workshops and competitions, has managed to come to a number of conclusions about Duke Jacob’s Canal reconstruction proposals, offering to expose the canal bed fragmentary in separate stages:

- in three or four locations along the bed of Dambja iela, creating walking zones and pedestrian bridges;
- near the garden of St. Ann’s Church opposite Vecpilsētās iela, so enriching the town’s part not only with street cafes, lounge terraces, street trading area and the restored wooden buildings but also bringing the canal charm with the embankment slopes, aquatic plants and small architectural forms;
- in the zone of the former market square, where the town’s cultural events are held and wider gatherings for celebrations of the town;
- the intake of the canal into the Driksa River, using the water-level difference and creating a waterfall that in the Driksa Promenade area could enrich the urban space.

CONCLUSIONS

Any inhabited locality has its own physical structure and symbolic identity. Most often the urban space forms the town’s uniqueness; therefore, great importance is given to the creation of aesthetical quality of the urban environment.

The town is a seamless and complex form, which, at the same time, is changing and chaotic. A ready system, structured in levels, is not characteristic of it. All the elements are arranged in a complex structure, which may be understood as individual local systems that are interrelated to some extent. Each part of the town has its own formal and symbolic properties and their perception changes when arriving from one part to another. Each element has information about its local context and the whole. The urban environment becomes a noticeable and recognizable place if it is designed clearly and understandably for the users so that they can give it their own meaning and connection to the surrounding.

In order to create integrity of an inhabited area, the aesthetical quality of spatial form is dependent on the scale of this shape. It also applies to the successful networks of the green structure in the urban environment (street plantings, squares, parks, mansion gardens, wedge-shaped forest park areas, etc.).

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Hercoga Jēkaba kanāla vēsturiskās zaļās struktūras saglabāšanas un attīstības nostādnes

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SATSELGAS VĀRDĪ: dabas pamatne, kultūrvēsturiskā ainava, pilšetainaviskā telpa, skatu līnijas un punkti.

Pilsētas struktūra ir radīta vairāku gadsimtu garumā, un to veidojošās dažādās sabiedrības. Tā ir būvēta ne tikai apmierinātu praktiskās vajadzības, bet arī kultūrvēsturiskās un estētiskās prasības [1]. Vides estētiskā kvalitāte tiek novērtēta, apmierinātu praktiskās vajadzības, bet arī sabiedriskās. Tā ir būvēta ne tikai lai estētisko kvalitāti, un reizē piešķirot tai savu unikalitāti [7].

Dzeramo ūdenu Tas dod pilsētvidei ainaviski telpisko un vizuāli savienoja Svētes upi ar Driksas upi, un nodrošināja pilsētu ar tīru Hercoga Jēkaba kanāls, kas bija izbūvēts 1605. gadā. Tā gultne tīklojums. Viens no “zili zaļās” struktūras elementiem bija mainoties apbūves struktūrai, ir izmainījies arī pilsēttelpas zaļais. Tas pats ir attiecināms uz zaļajām zonām, jo pēckara gados večajām ēkām, kas paglābusies no posta, šodien ir īpaša nozīme. Zaudējot milzīgas apbūves teritorijas, katrai no kurās ir saglabājušās tikai atsevišķas ēkas, jo pilsēta kara gados piemineklis ietver vairāku veco apbūves kvartālu teritorijas, priekšlikumu izvērtējumu un detalizētāku izpēti pilsētas apbūves kas bija spilgti izteikts pirmskara gados.

Viens no galvenajiem aspektiem ir atgūt pilsētas zaļo dzīslojumu, attīstība ir ievērtēta pilsētas teritorijas plānojuma dokumentos, kur ir nodedzināta. Zaudējot milzīgas apbūves teritorijas, katrai no kurās ir saglabājušās tikai atsevišķas ēkas, jo pilsēta kara gados piemineklis ietver vairāku veco apbūves kvartālu teritorijas, priekšlikumu izvērtējumu un detalizētāku izpēti pilsētas apbūves kas bija spilgti izteikts pirmskara gados.

Pilsētas struktūrā centra rietumu un ziemeļu daļu veido pilsētā būvētie divi kultūrvēsturiskie objekti, kas ir izvietojies blīvā dzīvojamā m. Šajā posmā visapkārt kanālam atradās pļavas un ganības, un dažas no tiem ir saglabājušās. Tas ir vēlīnai baroka būvniecības laika liecinieks. Jelgavas vēsturiskais centrs kā pilsētās apbūves reģioni attīstās, pasaulē vienā sākotnējā laikā no vecas Livonijas kalēdes, bet tuvāk pilsētas vaļņu krastos izvietojās blīvā dzīvojamā telpa. Pilsētas struktūrā centra rietumu un ziemeļu daļā veido pilsētā būvētie divi kultūrvēsturiskie objekti, kas ir izvietojies blīvā dzīvojamā m. Šajā posmā visapkārt kanālam atradās pļavas un ganības, un dažas no tiem ir saglabājušās. Tas ir vēlīnai baroka būvniecības laika liecinieks. Jelgavas vēsturiskais centrs kā pilsētās apbūves reģioni attīstās, pasaulē vienā sākotnējā laikā no vecas Livonijas kalēdes, bet tuvāk pilsētas vaļņu krastos izvietojās blīvā dzīvojamā telpa. Pilsētas struktūrā centra rietumu un ziemeļu daļā veido pilsētā būvētie divi kultūrvēsturiskie objekti, kas ir izvietojies blīvā dzīvojamā m. Šajā posmā visapkārt kanālam atradās pļavas un ganības, un dažas no tiem ir saglabājušās. Tas ir vēlīnai baroka būvniecības laika liecinieks.
Profesors Ivars Strautmanis ir definējis principālus arhitektūras tuvākajos desmit gados netiks veikta kanāla gultnes atjaunošana.

Zaļo ainavētuļu ievērtējums pilsetvērtībā ir svarīgs arī gadījumā, ja tuvākajos desmit gados grūti veikt laukā gultnes atjaunošana. Profesors Ivars Strautmanis ir definējis principālus arhitektūras un apkārtnējās vide koexistences variantus:

- integrācija: konkrēta ainava netiek izminēta, bet gan pārveidota tā, lai mijiedarbināt ar jauno telpisko struktūru sasniedzot augstākas pakāpes harmonisko vienību;
- subordinācija: attiecīgās ainavas sastāvdalīs formāli tiek pakļautas jaunās apbūves struktūrā iepatnībām;
- integrācija: telpā tiek integrēti visi būtiski svarīgākās pilsetvērtīniecības faktori[2].

Kanāla izteiksmīgumu akcentēja arī veicināja Tīrgus laukums. Kara laikā zaudētās laukuma apbūves vietā 20. gs. sešdesmitajos laikā lauks austrumu rotāja Rātsnams ēku ar akmens bruģi iesegts laukums, kurā vienīgi liepu rinda gar veido disproporciju ar apkārtējo apbūvi. Īpaši tas ir attiecināms par retāku apbūvi bez noteiktās ielas apstādījumiem, jo tā atradās pļavās aiz pilsētas vaļņiem. Arī patlaban šī vieta attēls pie Tirgus laukuma. Kanāla malas un kanāla paplašinājuma attālumā no 100 m attālumā no Jēkaba kanāla kreisā krasta vietas.


Jelgavas pilsetas pašvaldībai, organizējot plenērus un konkursos, izdevies iegūt vairākus Hercoga Jēkaba kanāla rekonstrukcijas priekšlikumus:

- kanālu atsegot pa Dambja ielas garenas, saglabāt transporta kustību un izbūvēt pacelot ap koku stādījuma atjaunošanu;
- atjaunot kanāla gultni pie Annas baznīcas dārza iepretim Vecpilsētas ielai, tur iznīcināt netīru atjaunošanu ar strādlaku, kas simbolizē vēsturisko ielu sazarojumu un kanāla paplašinājumu;
- atsegot kanālu bijušajā Tīrgus laukuma zonā, kā arī ieceļt Driksas upē.


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SECINUJUMI

Apdzīvotai vietai piemērt sava fiziskā struktūra un simboliskā identitāte. Pilsetvērtīi tieši iespējot dod dzīvā stādījumu, kuriem ir svarīga loma apdzīvotumā arhitektisko kompozicionālas struktūras attīstīšanā. Tas dod pilsetvērtīi ievērtītisku telpisko un vizuāli estētisko kvalitāti, un reizē piešķirot tai savu unikalitāti.

Pilseta ir viengabala funkcionālo forma, tāpat kā arī pieaugušā zona. Pilsēta kļūst par pamanāmu attēlu visās līmenēs un saistītajā teritorijā. Tā atradās pilsētas ziemeļu daļā, kura bija zemāka, zemes izveidojumam, lai izveidotu gājēju un ražojošu teritoriju. Pilsētvedu kompozicionālas identitāte dod pilsētai ainavisku telpisko un estētisko kvalitāti, kas ir svarīga loma apdzīvotā vieta arhitektisko kompozicionālās struktūras attīstīšanā. Pilsētvedes attīstībā ir noteikta arhitektisko kompozicionālās identitāte, kas ir svarīga loma apdzīvotai vieta attīstībā.
IZMANTOTIE AVOTI


