



P.01

Competition Assignment

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Competition Site

The competition site (part of the development area Smíchov City) is defined from the north and the west by a future pedestrian zone combined with urban parks, compensating for the physical barrier formed by the embankment of the rail viaduct at the southeast edge. To the south, it will be adjoined by an administrative-commercial complex that is now the assignment for another competition.

The essential limit for the competition site as well as for the actual school design is the route of the future rail tunnel running under the southeast section of the plot. For the competition, this means that no part of the school building may be planned above the tunnel; the area, though, could be used as a sports field.

Part of the ideas for the new school include the section of the pedestrian zone adjoining the school and the park abutting the school from the north – affected areas. Bearing in mind that both public spaces are in the phase where their concepts can be altered, it makes sense that they should, if necessary, take into account the relation to the future school.

The sole road access to the school will be the maintained road connecting Radlická street and Nádražní street. For the competition, the main traffic flow direction should be considered from Nádražní to Radlická.

Smíchov City

Smíchov City is a development project by Sekyra Group Real Estate – stretching from the Na Knížecí bus station to the rail station Smíchovské nádraží. In the area of Smíchov City and its adjoining development localities, we can assume in upcoming years dynamic construction growth that will place significant demands on providing technical and particularly civic infrastructure. To meet the capacity for primary schooling, the district of Prague 5 is announcing the competition “School Smíchov”.

Vision of the School

For the future architects of the school, this project is an exciting challenge: for a long time, no new schools have been built in Prague’s central public areas. The district government of Prague 5 hopes that this newly emerging area will offer a “public school for the 21st century”. I.e., a new school open to modern methods of teaching, which can provide innovative suggestions not only for its own pedagogic activity but offer intriguing possibilities for the rest of the period that the children (and not only they) spend inside the building – the overall organisation of space, the original planning of specialised classrooms, or the conception of spaces for class breaks, the lunch hour, and areas for post-school activities or clubs. In addition, it should address the contact with the outdoor environment – with public parks and with the school sports grounds.

The building should allow for meetings and social actions of the entire school in a separate auditorium or a central communication space that can be variably usable for these purposes. The building should be conceived so as to contribute to community life in the new district, allow for organisation of afternoon clubs and sports activities, as well as for holding events outside of the school framework. For sports clubs and recreation activity, the outdoor sporting grounds should be kept free for full use in afternoon and evening hours.

The competition and affected sites, as well as the planned street connecting Radlická and Nádražní ulice and the routing of the rail tunnel are indicated in Document P.02 (dwg).

The study for Smíchov City is Document P.04 (Smíchov City area study, pdf).

The area of Smíchov City – South is being addressed by the competition CSHQ Campus Prague www.CSHQ-CityCampus.cz, the results of which will not be known during the present competition.

Construction Costs

The District Government of Prague 5 assumes investment of 250 million CZK into the actual construction of the school and necessary terrain and landscaping work, including the sports grounds. Not included in this sum is the creation of the construction trench, which because of the situation of the school near the future rail tunnel will be represented by different investment resources.

Energy Concept

Our conviction is that the competition participants will consider the plan for the new school in adherence to current trends, as does the competition announcer: as a public investment that should not unnecessarily waste money, as a building that will influence the life of an entire neighbourhood, and as a unique opportunity to combine exceptional architecture with the balance sheet of an economist. The energy concept of the school complex should not be limited to the calculation of energy performance and efficiency, but should also consider the comfort of pupils, staff and other users. The school should be designed to optimise energy consumption and function within reasonable operating costs. For this reason, we are not specifying requirements for the use of technologies or systems, and are not stating specific numbers. The energy concept of the building should include conservation, smart designs and reflections of the overall functioning of the school complex.

The current terrain is indicated using contour lines in Document P.02 as well as in the 3D model (p.06); the assumed new terrain elevation, as well as the transport situation, is indicated in Document P.04.

The transport scheme is documented in greater detail in Document P.05 (pdf).

Terrain

The assumed new height of the surrounding terrain is: 200 m above sea level at the western edge adjoining the pedestrian zone, which is recommended to be retained, and 197 m at the eastern edge along Nádražní street, with which it is possible to work more freely. This scheme is recommended, yet with sufficient justification it could be altered if doing so is a demonstrable improvement.

Transport

The competition site has excellent connections to all types of public transport. The overall transport scheme for the locality is, on the basic level, drawn up within the wider framework of Smíchov City. The road connection to the school – the connection between ulice Nádražní and Radlická – will be the only access to the school for private cars and delivery vehicles. For the purposes of the competition, the actual planned street is regarded as part of the affected area, and there should be a plan for arrival to the plot for individual car transport, an adjoining space for K + R (i.e. children travelling to and from school) as well as deliveries.

In the competition site, participants should plan for 14 parking spaces.

Another task associated with transport is the plan for organising cycle transport and places for bicycle parking.

Primary School

The primary school itself will be comprised of two educational preparatory classes (age 5), Level I (5 grades for ages 6-10) and Level II (4 grades for ages 11-14). Instruction will be in parallel: Level I will have a total of 10 classes (capacity 300 pupils), Level II will have 8 classes (capacity 240 pupils). The size of the classrooms and creation of comfort for children, their teachers and other staff is very important in the school's design. The qualities of the school environment should inspire all its users.

This new city school should be a representative, complex architectonic achievement that allows the architect and the district itself to make a self-confident intervention in the public space not only of Smíchov, but even Prague as a whole.

Preparatory Classes

- 2 classrooms x 20 children (min. à 60 m²)

The aim of the preparatory class is the systematic preparation of children for gradual assimilation into the educational process of primary school. The planned classrooms should have a capacity of 20 children each and functionally can be connected to Level I facilities.

Level I

- 10 classrooms x 30 pupils (min. à 49,5 m²)
- 1 workshop x 20 pupils (min. à 80 m²)
- 2 language classrooms x 20 pupils (min. à 40 m²)

10 main classrooms for Level I should be designed with a capacity such that each of them can provide instruction for up to 30 pupils. This is, of course, the maximum operational variant, optimally we assume a smaller number of children per class. Level I should, at least partially, be separated functionally from Level II. The children will spend the entire day in these classes, so the classrooms should be supplemented with a corresponding relaxation zone. Level I will include 1 workshop and 2 language

classrooms, all with a capacity for a divided class (20 pupils).

Level II

- 8 classrooms x 30 pupils (min. à 49.5 m²)
- 1 classroom x 30 pupils (biology and chemistry) (min. à 60 m²)
- 1 classroom x 30 pupils (physics) (min. à 60 m²)
- 1 classroom x 30 pupils (music and theatre) (min. à 60 m²)
- 1 classroom x 30 pupils (visual arts) (min. à 60 m²)
- 2 classrooms x 20 pupils (languages) (min. à 40 m²)
- 2 classrooms x 20 pupils (IT) (min. à 40 m²)
- 1 classroom x 20 pupils (laboratory) (min. à 40 m²)
- 1 workshop x 20 pupils (min. à 80 m²)
- 1 practice kitchen x 20 pupils (min. à 80 m²)
- computer server room

The basis of Level II is given by 8 main classrooms as well as specialised rooms. 4 large specialised classrooms (each for 30 pupils) will serve as follows: one for biology and chemistry, second for physics, third for music and drama, fourth for art – drawing and sculpting, possibly supplemented with a ceramics kiln. For the music classroom, attention should be paid to acoustic insulation.

Also for Level II there are 7 specialised classrooms for divided classes (20 pupils). These are the laboratory (chemistry, biology, physics), two language classrooms, workshop, practice kitchen and two IT classrooms. For the IT classrooms, there should also be a server room.

Teachers' Rooms

- Level I = dayroom (common teachers' area for 10 teachers)
- Level II = separate rooms for 12 teachers
- Area for assistants (10 together for Levels I and II.)

Teachers in Level I will spend most of their time with the children in the classrooms. Their mutual meetings should take place in a single room (dayroom), or if it is better for layout and functioning, a shared area near the administrative offices.

The capacity and placement of rooms for teachers in Level II is up to the participants. In total, we assume 10-12 teachers for Level II. Dayrooms and chambers should be

dimensioned with areas for assistants.
(Assumed number of assistants: around 10 in total for Levels I and II.)

Cloakrooms

- min. 0.25 m² area per pupil

The planning and positioning of cloakrooms is up to the participants. The announcer would prefer the use of centrally located cloakrooms, preferably separated for Levels I and II, which would give each class its own closable space.

After-School Activities

- 5 spaces x 20 children (after-school care)
- 2 clubrooms x 30 children

The school spaces intended for afternoon activities should allow for the activities of the widest range of clubs and activities, not only for pupils of this school.

For Level I, we assume a traditional after-school activities club [*školní družina*]. It should be planned for a total number of 100 children, but not to consist of a simple space/hall but instead a series of rooms or a cleverly designed space where a teacher can supervise a suitable number of children (20 children per 1 instructor).

For Level II, we assume 2 clubrooms, each for a capacity of 30 pupils for extracurricular activities after school. It might be recommended to connect the school library to this section.

School Administration

- head office
- secretary
- general office
- archive
- meeting room for 30 teachers
- visitor room

The school administration section includes the head office, secretary's office, other office spaces and the archive. The arrangement is not specifically defined, but there needs to be space for the headmaster, deputy, 2-3 technical-economic employees and secretaries. The teachers' meeting room serves for meetings of the entire teaching staff (estimated 30 teachers). Also in this section is a visitor room for meeting parents, but also for ill or

injured children to wait for their parents to pick them up. The visitor room could be equipped with a bed and medicine cabinet.

Gym

- 1 large gym hall (18 x 30 m playing area)
- 1 small gym hall
- 4 changing rooms with 4 showers x 30 persons (unit for changing room dimensions is 0.4 m bench length per person)
- equipment storage
- teachers' facilities

The gym halls are assumed to be 2, one of them with dimensions 18 x 30 m, the second can be smaller. Participants should also include in the large gym a space for possible spectators and visitors. Each of the gym halls needs equipment storage, changing rooms and showers for pupils, and room/facilities for teachers. It is preferred that these spaces be shared for both gym halls. For the changing rooms, we assume 2 for girls, 2 for boys, each for 30 people. After school hours, the gym halls should be usable by the public. Thus it is necessary to ensure access and possibility of operation so that it does not, for hygienic and security reasons, interfere with school operations.

Library

The library, with a starting capacity of 1600 volumes and annual acquisitions of 80 volumes, should be conceived as a school library and reading area, with an office and sanitary facilities.

Auditorium

The school building should allow for meetings and shared school events in an independent auditorium or central communication space/hall, which could be variably used for its purposes.

Dining

- kitchen (1000 servings)
- dining area (220 seats)

The kitchen will be designed and dimensioned for preparation of 1000 servings daily. The actual dining room should serve 220 children and employees at once. It should be assumed that all pupils and employees will alternate here in three intervals. The design should allow for

parents to be issued lunch to take to children who are ill at home. For this, it is preferable to have a directly supervised entrance.

School facilities

- toilets and washbasins for pupils
- toilets and washbasins for teachers
- storage area(s)
- flat, workshop and storage area for caretaker
- cleaning cabinet
- technical areas

On each floor, there should be one cleaning cabinet with spill basin, dimensioned to allow storage of basic cleaning necessities.

Storage areas for the school are defined only by basic requirements, i.e. need to store school furniture, seasonal furniture, office supplies and ca. 5 000 volumes of textbooks. The number, placement and dimensions of storage areas are up to the participants.

Also worth mentioning is the residence for the caretaker, and his workshop and storage area. The caretaker should reside inside the building, and meet not only the function of maintenance but also security and porter when the school is closed. We assume a configuration of a flat of 2 rooms with kitchenette or preferably a small 3 rooms with kitchenette plan.

Technical areas and the selected technologies are left up to the individual designs. It should be stressed that we prefer a design (and thus method of heating, ventilation, hot water supply etc.) that is for investment and operation the economically most effective.

Exterior Areas and Sports Grounds

- 2 multipurpose playing grounds
- athletics track
- facilities (hygienic and storage)

We plan to have 2 multipurpose playing fields for ball games (basketball, volleyball, handball) and an area for athletics (oval track, high jump, shot-putting, long jumping). The specific solution is up to the participants. We assume the afternoon use of the sports fields for school sports clubs as well as recreational uses. For the outdoor sports areas, it is necessary to plan how the

facilities will function, particularly for after-school activity use.

In light of the assumed capacity of the school, at least 160 m² of the competition site should be left as unbuilt-up area, including areas of grass lawn.

Other recommendations

The school complex should be able to be fully closed.

The school building should not exceed 4 above-ground floors, and that Level I should be planned for the lower floors.

The entire complex and the school building itself should be fully handicapped-accessible.

The basic spatial data are taken from Czech Directive no. 410/2005 Coll.

The Directive in its full wording in Czech is available here:

<https://www.zakonyprolidi.cz/cs/2005-410>.

Basic Competition Data

Registration

Potential competition participants must, to receive all documents, register by sending an e-mail to the competition secretary. Registration does not make submission of a design compulsory.

See paragraph 9.3 of the Competition Conditions.

Phase 1 of the Competition

The design is submitted electronically by sending the required 3 files to the authorised person.

See paragraphs 6.1 and 9.4 of the Competition Conditions.

Final deadline for submissions: 4 May 2018, 5:00 p.m. Central European Time

For Phase 2, we assume a selection of 6 designs.

Phase 2 of the Competition

The design is submitted physically in person or by post to the mailroom of the District Town Hall of Prague 5. We assume it will consist of 4 panels in A1 format, 2 copies of the accompanying report, a digital data medium and the envelope marked "Author".

See paragraphs 6.1 and 9.9 of the Competition Conditions.

Final deadline for submissions: 17 August 2018, 3:00 p.m. Central European Time

Prizes and Reimbursements

1st prize: 900,000 CZK (around 35 300 EUR)

2nd prize: 600,000 CZK (around 23 500 EUR)

3rd prize: 400,000 CZK (around 15 700 EUR)

reimbursements: 3 x 200,000 CZK (around 3 x 7 800 EUR)

Questions

Questions can be submitted during Phase 1 by e-mail to the competition secretary, and during Phase 2 by e-mail to the authorised person. Answers will be provided on the competition website and the webpage of the announcer.

Jury

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This overview is only for purposes of orientation. Complete information can be found in the Competition Conditions.