



## COMPLEX DESIGN I. – BUILDING CONSTRUCTIONS SUBTASK

**The purpose of the building constructions subtask is to** create the specification of requirements to transform an architectural concept into an actual viable building design, to facilitate the necessary decision making with regards to building constructions in accordance with the above mentioned architectural conception and to prepare for the detailed design phase of the characteristic building constructions of the building.

### CONTENT OF THE BUILDING CONSTRUCTION DOCUMENTATION OF COMPLEX 1

#### 1. Technical description

- short architectural description of the designed building (functions, functional order, location within the site, space and mass formation);
- environmental impacts shall be taken into account during the designing (eg. terrain, soil mechanics, hydrogeology, acoustics, solar radiation exposure etc.), together with the documentation of the requirements, and the effects of the special building constructions of the planned function of the building, the documentation how would they affect the choice of the structure. The requirements of the planned function of the building does not depend on the location or the future architectural design;
- the structural solutions concept description: load bearing structures, foundation (building technologies, structural system, bracing, level bypass etc.), protection against soil moisture on the parts of the structure that is under the ground, facade structures (coverings, openings, spatial delimitations, unique elements defining the architectural characteristics etc.), roof structures (flat and pitched roofs, balconies etc.), inner structures (partition walls, flooring and slab coverings etc.);
- the conceptual solution of acoustics, fire safety, energetics, inner comfort, shielding etc.

#### 2. Previews

Building constructional examples and solutions that affects the characteristics of the building to be planned, (eg. materials, mass formation, structural formation, formation of the details etc.), the documentation of the previews (minimum 3-5) with photos, drawings, analysis. The preview building's function and the planned one does not have to be the same.

#### 3. Plans

Basically the architectural plans shall be developed based on the requirements of the Department of Complex I. but the minimum shall be 1 floor plan (or in case of a larger floor plan the consultant shall outline a detail of the floor plan) and 1 section is required detailed and represented as a building permit plan (eg. depiction of structures, dimensioning, subtitling) in the scale of M=1:100, in case the other plans are not detailed like that.

**Layering and details:** Layerings that define the building's most important inner and outer separation structures, and beside the basic layers for understanding the structural design (approx. 10 pc) it is a requirement to sketch the 5 most important detail's flat coordination (scaled M=1:10), they shall be 4 pc of vertical detail– enlarged from a section– and 1 pc horizontal window flat coordination detail.

**Required format:** The building construction documentation has to be submitted on A/4 or A/3 sheets stapled or merged together and has to be turned in until the deadline that was stated in the given format (on paper or electronically).

27. February 2023, Budapest