

# MODEL OF DOCUMENTATION FOR HISTORICAL RUINS

## RUINS DOCUMENTATION TEMPLATE

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D.T1.4.3

11/2018

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**HISTORICAL RUIN TECHNICAL SHEET**  
structured set of technical information

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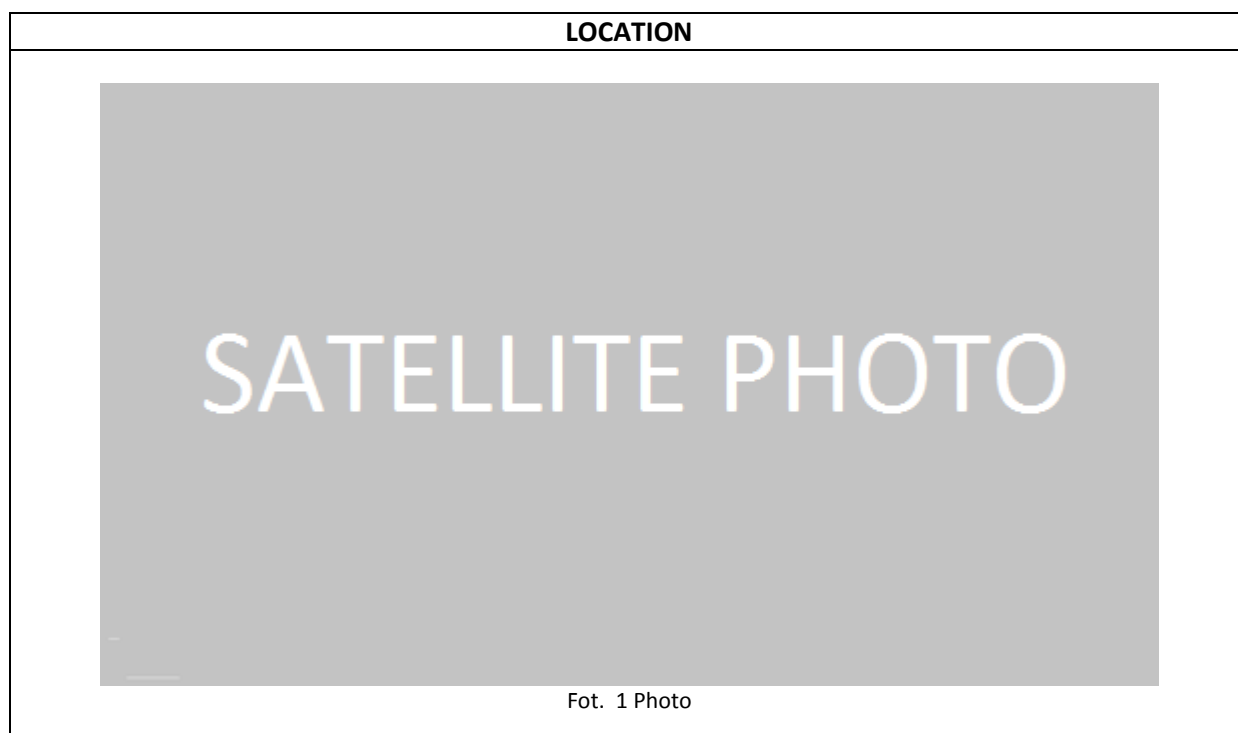
**DRAFT: 09.2018**

# 1. CHARACTERISTICS OF THE OBJECT AND RUIN

*The general characteristics of the team and the object will be presented below. The data contained below is the result of a study of existing documentation, local vision, measurements and interviews with users and facility managers.*

## 1.1. Basic data

<b>Name</b>	<i>The name appearing in its documentation or the usual name.</i>
<b>Owner</b>	<i>Owner.</i>
<b>User</b>	<i>Current users of the object.</i>
<b>Adress</b>	<i>Address of the object, street, town, state, country - GPS data in decimal degrees.</i>
<b>Type of object</b>	
<b>Data powstania</b>	<i>Date of construction</i>
<b>Historical and contemporary function</b>	<i>The function for which the object was raised and the function of the present object.</i>
<b>Legal protection</b>	<i>Legal form</i>
<b>Heritage supervisor</b>	<i>Supervisor of the object protection.</i>



## 1.2. History

*The chapter should present the history and historical outline of the object. If necessary, the description should be divided into appropriate reconstruction phases. The following information should be included in the historical note:*

- *causes and circumstances of the creation of the object,*
- *the original form of the object,*
- *initiators and owners,*
- *reconstruction phase,*
- *history of individual phases,*
- *adaptations and transformations of form and function.*

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## 1.3. Terrain and greenery

*The chapter should describe the terrain, both the ruins and its surroundings. Particular attention should be paid to profiling including slopes, embankments, moats, slopes and green areas. In addition, the greenery present in the area should be described. You can divide into free and shaped green and undesirable green (destructive).*

*Complete the chapter with photographic documentation that will complement the description. In addition, it is recommended to make a map with the designation of all the elements of the configuration, an additional help will be a hypsometric map.*

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Fot. 2 Description under the photo



Fot. 3 Description under the photo

## 1.4. Characteristics of the object

*The chapter should describe the elements of the team, which includes the ruin. It will be helpful to create a situational map with the marking of all development elements. In addition, describe the basic assumptions of the team and briefly characterize its elements.*

*Elements that require description:*

- *entrance gates,*
- *squares and parking lots,*
- *paths for visitors,*
- *small architecture objects,*
- *cupature objects.*

*In addition, it is necessary to place photographic documentation as a supplement to the descriptive part.*



Rys. 1 Zagospodarowanie obiektu

- **entrances**

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Fot. 4 Description under the photo



Fot. 5 Description under the photo

- **parkings**

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Fot. 6 Description under the photo



Fot. 7 Description under the photo

- **pedestrains paths**

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Fot. 8 Description under the photo



Fot. 9 Description under the photo

- **small architecture object**

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Fot. 10 Description under the photo



Fot. 11 Description under the photo

- **another objects**

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Fot. 12 Description under the photo



Fot. 13 Description under the photo

## 1.5. Characteristics of the ruin

*The chapter should contain a brief general description of the ruin and all its elements.  
The description can be divided into four parts:*

- *relics,*
- *walls,*
- *historical cubatures and their parts*
- *modern cubature buildings.*

- **relics**

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Fot. 14 Description under the photo



Fot. 15 Description under the photo

- **walls**

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Fot. 16 Description under the photo



Fot. 17 Description under the photo



- **historical cubatures and their parts**

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Fot. 18 Description under the photo



Fot. 19 Description under the photo

- **modern cubature buildings**

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Fot. 20 Description under the photo



Fot. 21 Description under the photo



## 2. DESCRIPTION AND EVALUATION OF THE TECHNICAL STATE

*The assessment of the technical condition is usually connected with the planned operation on the site. In other words, it is purposeful.*

*In the case of a historic building, it will usually be its primary purpose to collect and analyze information necessary to preserve the ruins in good technical condition or the extent of the necessary renovation.*

*Therefore, the purpose (usually) of a technical opinion about a non-specific determination of purpose is to assume that the building is in a good condition at least at the good level.*

*This study is helpful in determining the technical condition for each planned activity on the site, but mainly the assessment is of a general nature with an emphasis on the data needed to carry out the work.*

*The local vision is the most important component of the so-called preliminary work in preparing expert opinions. After accepting the order, recognizing the subject of the expertise, collecting the available documentation, there is a need to conduct a local vision. It allows you to collect information about the status of an existing object. In most cases, the results of the examination during the inspection of the object are insufficient and it is necessary to download materials for laboratory tests.*

### 2.1. Sections - criteria for division

*Due to many factors, such as size, diversity or order of work, the objects to be assessed are divided into parts - sections. This will facilitate the analysis of the object and allow for a comparative analysis of the object fragments. Making such an analysis will make it easier to estimate the costs and urgency of repairs.*

*Example criteria for sectioning:*

- *material diversification: primary or secondary materials used;*
- *geometry of the facility plan;*
- *geometry of the object's elements: height, thickness, holes, finial type;*
- *technical condition of fragments or urgency of their repairs;*
- *primary or current function;*
- *phasedness of planned works;*
- *parts of world;*
- *length of sections covered by the study.*



OBJECT MAP  
BY SECTIONS

Fig. 2 Sections

## 2.2. Section A

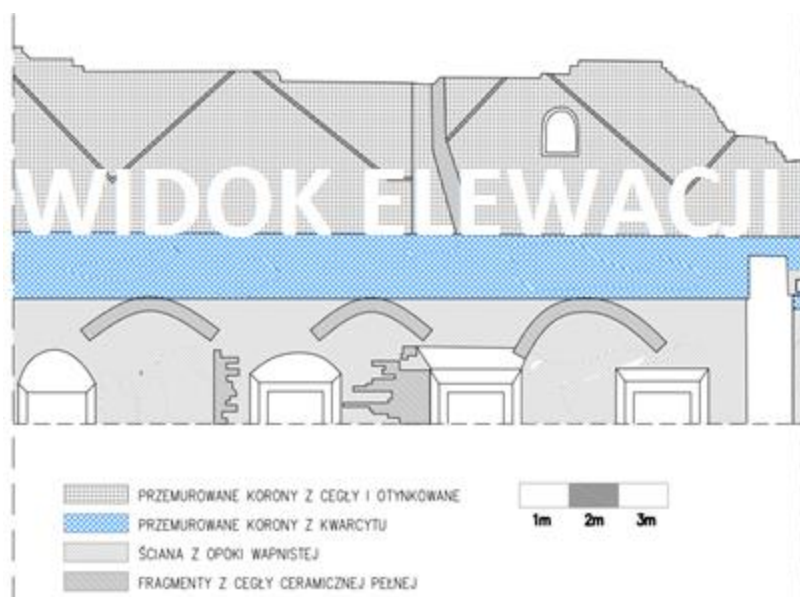


Fig 2 Wall view - section A

### 2.2.1. Technical description

FOUNDATIONS AND GROUND	
<b>Ground</b>	
<i>The description should contain information about the ground in the foundation zone: geological cross-sections, the type and parameters of the ground, the height of the groundwater table.</i>	
<i>All this information is contained in geological engineering documentation prepared for the facility.</i>	
Type of soil	<i>homogeneity, occurring soil types in geological cross-sections.</i>
Soil parameters	<i>density, moisture, density / plasticity, internal friction angle, etc.</i>
Groundwater level	<i>groundwater level.</i>
<b>Foundations</b>	
<i>All possible features of the structure are described: wall material, mortar, type of elements bonding, geometric information (height, thickness, length), existing reinforcements and introduced contemporary elements.</i>	
Foundation material	<i>wall material, geometry of elements</i>
Mortar	<i>type of mortar, mortar thickness</i>
Wall joints	<i>type of wall structure solution</i>
Foundation geometry	<i>basic foundation geometry - height, width, thickness, schematic drawing showing the geometry</i>
<b>Foundation wall</b>	

<i>All possible features of the structure are described: wall material, mortar, type of elements bonding, geometrical data (height, thickness, length, foundation depth), existing reinforcements and modern elements.</i>	
Wall material	<i>wall material, geometry of elements</i>
Mortar	<i>type of mortar, mortar thickness</i>
Wall joints	<i>type of wall structure solution</i>
Wall geometry	<i>basic foundation geometry - height, width, thickness, schematic drawing showing the geometry</i>

<b>OVERHEAD PARTS OF THE OBJECT</b>	
• <b>STRUCTURAL ELEMENTS</b>	
<b>WALL STRUCTURE</b>	
<i>All possible features of the structure are described: wall material, mortar, type of elements bonding, geometric data (height, thickness, length), existing reinforcements and introduced contemporary elements.</i>	
Wall material	<i>wall material, geometry of elements</i>
Mortar	<i>type of mortar, mortar thickness</i>
Wall joints	<i>type of wall structure solution</i>
Wall geometry	<i>basic foundation geometry - height, width, thickness, schematic drawing showing the geometry</i>
<b>Lintels, arches</b>	
<i>All the features of the structure are described: description of the construction method, masonry material, mortar, geometrical data (height, thickness, length, radius of the arc), occurring reinforcements and introduced contemporary elements.</i>	
Material	<i>wall material, geometry of elements</i>
Mortar	<i>type of mortar, mortar thickness</i>
Type of joints	<i>type of wall structure solution</i>
Geometry	<i>basic foundation geometry - height, width, thickness, schematic drawing showing the geometry</i>
<b>Ceilings</b>	
Structure description	<i>Description of the ceiling structure - determination of the type of ceiling and static schemes.</i>
Structural material	<i>Definition of the construction material</i>
Layers description	<i>Determination of the type of layers and their thickness. Describing the basic properties of finishing layers and construction.</i>
Ceiling support	<i>Determination of the manner of fixing the ceiling</i>

<b>Other elements</b>	
<i>Description of other elements such as: stairs, terraces, balconies etc ...</i>	
<ul style="list-style-type: none"> <li><b>ARCHITECTURAL FINISH AND FINISHING ELEMENTS</b></li> </ul>	
<b>Plasters</b>	
Time of completion	<i>Time period in which the plasters were made. Determination of plaster stratigraphy, description of primary and secondary plasters.</i>
Type of mortar	<i>Determination of the type of mortar.</i>
Layers	<i>Thickness of individual layers.</i>
Paintings	<i>Specification of the type of coatings on the plaster.</i>
<ul style="list-style-type: none"> <li><b>SUPPORTING ELEMENTS AND REINFORCEMENT</b></li> </ul>	
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## 2.2.2. Survey of technical condition



Fig 3 Example of damages of facade drawing

FOUNDATIONS AND GROUND	
Ground	.....
Foundations	.....
Foundation wall	.....

OVERHEAD PARTS OF THE OBJECT		
• <b>Structural elements</b>		<b>CODE</b>
Wall structure	.....	SZ ZS DG
Lintels, archs	.....	
Ceilings	.....	
Other elements	.....	
• <b>ARCHITECTURAL FINISH AND FINISHING ELEMENTS</b>		
Plasters	.....	
Paintings	.....	
• <b>SUPPORTING ELEMENTS AND REINFORCEMENT</b>		
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SEKCJA A

		STRUCTURAL ELEMENTS				FINISHING ELEMENTS		
		FOUNDATIONS	WALLS	LINTELS	CEILINGS	PLASTERS	PAINTINGS	OTHER ELEM.
		FN	SC	ND	ST	TY	MA	DA
<b>CRACKS / SCRATCH</b>	<i>SZ</i>							
<b>DROPOUTS/EROSION</b>	<i>UB</i>							
<b>DESTRUCTION OF MATERIAL STRUCTURE</b>	<i>ZS</i>							
<b>DEFORMATION OF GEOMETRY</b>	<i>DG</i>							
<b>POLLUTION</b>	<i>ZN</i>							
<b>DAMAGE TO THE SURFACE</b>	<i>OW</i>							



Fot. 22 Description under the photo



Fot. 23 Description under the photo

**2.2.3. Analysis of damage causes**

- Conclusions**

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- Recommendations**

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### 2.3. Elements of an architectural decor

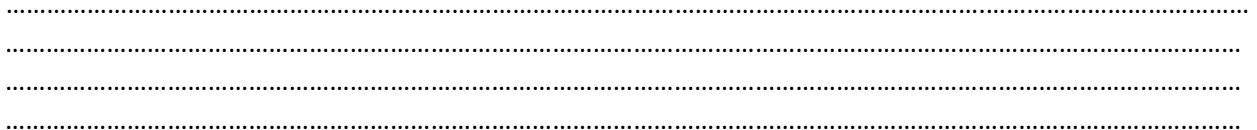
*The general characteristics of the preserved elements of the architectural decor will be presented below. The data contained below is the result of a study of the existing documentation and material tests carried out as well as an interview with the user and facility manager. In addition to the description of composition, iconography and color, the study should include, attribution, stylistic-comparative analysis, recognition of ornaments, determination of the function of the object, etc. It will be helpful to make plans with the location of individual elements of the decor. In addition, it is necessary to place photographic documentation as a supplement to the descriptive part. Due to the diversity of the decor, the elements to be described are worth dividing into parts.*

<b>Mural painting, sgraffito</b>	
<i>The description covers all consecutive layers that can be determined, starting from the wall thread, through layers of plasters and the painting itself.</i>	
Substrates	
Types of plasters	
Adhesives and pigments for painting	
<b>Natural stone</b>	
<i>The description covers all definable features, define petrographic characteristics of stones, physical properties, method of processing, surface texture, combinations of details, characteristics of existing metal elements, method of fixing</i>	
Petrographic characteristics of stones	
Physical properties	
Processing method, surface texture	
Details joints	
Characteristics of existing metal elements, the method of fixing metal elements	
<b>Artificial stone</b>	
<i>The description covers all definable features, specify the composition and physical properties of the material, cross-section characteristics, the method of making stucco (casting, overhead, etc.), describe the technique of making stucco, taking into account individual layers, surface preparation method, polychromy or bulk dyeing specify pigments, binders.</i>	
Material composition	
The way of stucco work	
The technique of making stucco	

## 2.4. Drainage and surfaces

*In the case of historic buildings remaining in the form of a permanent ruin, it is extremely important to ensure proper drainage of rainwater. This is problematic because such objects are often located on elevations and at a considerable distance from urban areas with storm and sewer installations. The problem is also that in the case of buildings with a closed line of walls, the majority of rainwater remains inside the building.*

- *Devices for draining rainwater from roofs, terraces and non-roofed ceilings.*
  - *gutters,*
  - *downspouts,*
  - *roofing processing,*
  - *pipe gutters, channel gutters,*
  - *linear drains,*
  - *keys,*
  - *other.*
- *Devices draining rainwater from the ground surface.*
  - *drainage under the surface*
    - *for drainage systems,*
    - *for storm installations,*
    - *for sewage installations,*
  - *surface drainage*
    - *open channels shaped by the surface material,*
    - *open concrete monolithic and prefabricated, stone and plastic channels*
    - *with shielded linear outlets.*
- *A place for draining rainwater*
  - *sewage treatment plants,*
  - *drainage ditches, streams and rivers,*
  - *wet and dry castle moats,*
  - *surface infiltration,*
  - *underground tanks.*



Fot. 24 Description under the photo



Fot. 25 Description under the photo

## 2.5. Engineering objects

*Objects that should be described as engineering and other objects include:*

- *courtyards,*
- *roads and routes - those that are historical or intentionally introduced in the development process are assessed,*
- *bridges*
- *wells,*
- *underground,*
- *earth and brick fortifications,*
- *moat,*
- *other.*

- **Courtyards**

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Fot. 26 Description under the photo



Fot. 27 Description under the photo

- **Roads and routes**

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Fot. 28 Description under the photo



Fot. 29 Description under the photo

- **Bridges**

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Fot. 30 Description under the photo



Fot. 31 Description under the photo

- **Wells**

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Fot. 32 Description under the photo



Fot. 33 Description under the photo

