



Morava Corridor Motorway Project, Serbia

*Supplementary Lenders Information Package –
Cultural Heritage Impact Assessment (CHIA)*

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Acronyms

Aol	Area of Influence
CFP	Chance Find Procedure
CH	Cultural Heritage
CHIA	Cultural Heritage Impact Assessment
CHMP	Cultural Heritage Management Plan
CM	Cadastral Municipality
ESIA	Environmental and Social Impact Assessment
FGDs	Focus Group Discussions
GoS	Government of Serbia
ICP	Informed Consultation and Participation
IPCM	Institute for Protection of Cultural Monuments
KIIs	Key Informant Interviews
RIPCM	Republic Institute for Protection of Cultural Monuments
SEP	Stakeholder Engagement Plan

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1 Introduction

This Cultural Heritage Impact Assessment (CHIA) is part of the Supplementary Lenders Information Package (SLIP) developed by RINA Consulting S.p.A. (RINA) on behalf of the Lender Group (JP Morgan, UKEF, MIGA) and is intended to supplement the Project's existing Environmental and Social Impact Assessment (ESIA), in order to address gaps identified in Ramboll's Gap Analysis Report and 2U1K ESIA prepared by 2U1K.

The SLIP includes five deliverables: i. Alternatives analysis for aggregate sourcing and Greenhouse Gas emission reduction; ii. Traffic impact assessment for aggregate transport if alternative sources are identified; iii. Ecosystem services assessment; iv. Cultural heritage assessment; and v. Report on Informed Consultation and Participation (ICP) for River Regulation and Operational Noise Impacts.

1.1 Background and Objectives of the CHIA

The Government of the Republic of Serbia (GoS) is developing the Morava Corridor Motorway Project (the Project).

The Project is a 112km dual-carriageway tolled motorway, located approximately 200km south of Belgrade in a low-level flood plain running east/ west along the West Morava River Valley. The motorway spans from Pojate on the A1 (the North-South motorway in central Serbia) through Kruševac and up into Preljina, near Čačak. Due to the heterogenous characteristics and requirements along the route, the Morava Corridor will be divided in three sections: Pojate-Kruševac (circa 28km), Kruševac -Adrani (c. 53km) and Adrani-Preljina (c. 31km).

The Project also includes (i) above ground structures such as interchanges, bridges, culverts, over and under passes; (ii) a telecommunication network (digital corridor) supported by power lines, communication cables and substations to connect the planned mobile phone base stations within the motorway (at rest areas, parking lots, and near traffic loops) as well as manage traffic through various traffic control, monitoring and surveillance, and tolling systems; and (iii) river regulation works intended to protect the Project and surrounding areas from flooding. A total of 18 separate hydrotechnical structures are planned for construction, including 'cut-offs' (straightened, channelised sections of river), revetments and reconstruction of embankments. The total length of cut-offs planned is approximately 32.7km. In addition, temporary facilities to be constructed as part of the Project comprise quarries and borrow pits, camp sites and storage areas, crushers, concrete batching plants and asphalt plants, and access roads.

For the purpose of the EIA study, the Project was divided into three Sections: (i) Section 1 crossing the municipalities of Čičevac and Varvarin and the city of Kruševac, (ii) Section 2 developed in the municipalities of Trstenik, Vrnjačka Banja and the city of Kraljevo and (iii) Section 3 passing through the cities of Kraljevo and Čačak.

The project intersects the following Municipalities:

- Čičevac;
- Varvarin;
- Kruševac;
- Trstenik;
- Vrnjačka Banja;
- Kraljevo;

- Čačak.

A total of 245 cultural heritage sites were identified thanks to the information provided in the ESIA, the EIA and the Spatial Plan Reports as well as the research activity and stakeholder engagement carried out for the ICP and this CHIA.

This Report has further studied the mapped sites, categorised them and assessed potential impacts in line with International Finance Corporation Performance Standards (IFC PS), in particular IFC PS8.

61 cultural heritage sites are located within the Area of Influence (AoI), including 22 falling within the 50m strip from the roadway (see Sections 2 and 3). Cultural heritage aspects were touched during ESIA consultations and brought up as an additional topic of Informed Consultation Plan (ICP) consultations (see Section 6 for further details). The list of all CH sites is presented in the Appendices from 1 to 4. Appendix 5 has been updated starting from ESIA Appendix 5.3 to show the locations of the CH items within the AoI and in its proximity.

1.2 Contents of this Report

The CHIA undertakes an assessment of cultural heritage features that have the potential to be affected by the Project in accordance with IFC PS8 and develops mitigation and management measures for any impacts identified.

The report is organized as follows:

- Section 1. Introduction;
- Section 2. Approach and Methodology;
- Section 3. Identification of Cultural Heritage (CH) Features;
- Section 4. Assessment of Impacts on Cultural Heritage Features;
- Section 5. Mitigation, Management and Monitoring Measures;
- Section 6. Consultations Conducted;
- Section 7. Conclusions.

2 Approach and Methodology

2.1 Documents Reviewed

The CHIA is developed using existing baseline information contained in the ESIA and in the communications undertaken with relevant authorities. Further research collected necessary information to properly locate and label each CH item in line with IFC PS8 and draw an updated list and map of all cultural heritage features located in the cultural heritage Area of Influence (Aoi).

We have reviewed the ESIA as the primary source of data for this CHIA, in particular the following chapters:

- Chapter 2. Introduction;
- Chapter 3. Project Description;
- Chapter 4. Legal Framework;
- Chapter 5.11. Baseline Conditions – Archaeological and Cultural Resources;
- Chapter 6.9. Impact Assessment – Archaeological and Cultural Resources;
- Chapter 8. Environment & Social Management and Monitoring Plan;
- Chapter 9. Stakeholder Engagement;
- Appendix 3. Stakeholder Engagement Plan (SEP);
- Appendix 4. National Legislation and International Standards;
- Appendix 5.3. Archaeology & Heritage Map; and
- Appendix 5.7. Constraint Maps.

In addition to the ESIA, the following documents provided relevant information for the CHIA:

- the chapters relevant to CH of the EIA Reports for Section-1, Section-3. (CIP, 2018) (Highway Institute, 2019);
- letters exchanged between the Client and CH authorities in particular:
 - 26289-000-L-OTBE-00004 (14/05/2020) subject: Archaeological Area No 24, Jasicki put / Letter from Institute for the Protection of Cultural Monuments Kraljevo,
 - 26289-000-T-BEKS-00080 (22/04/2020) subject: Archaeological Areas in Sector 1 and Sector 3,
 - 26289-000-T-BEKS-00122 (01/06/2020), subject: Archaeological Areas No 6, 7 and 15 in Section 2,
 - 26289-000-T-BEKS-00185 (29/09/2020) subject: Archaeological Areas in the Borrow Pits, Quarries, Concrete and Paving Production Facilities, Waste Areas and Camp, Warehouse and Workshops,
 - 26289-000-T-BEKS-00219 (18/11/2020) subject: Retaining Wall – KM10, Section 2, Archaeological site,
 - I-99_20-MK (30/03/2020) subject: Delivery of special conditions of the Institute for the Protection of Cultural Monuments of Kraljevo-Sector 1,
 - I-134_20-MK (28/04/2020) subject: Archaeological Areas in Sector 1 and Sector 3,
 - I-222_20-MK (22/06/2020) subject: Archaeological Area No.31 near Intended Quarry at km 25+000,
 - I-596-MK (27/11/2020) subject: Delivery of the response of the Institute for the Protection of Cultural Monuments Kraljevo-Retaining wall-km 10, Archaeological site on Section 2,
 - I-616-MK (12/07/2020) subject: Delivery of the technical protection measures from the Institute for the Protection of Cultural Monuments of Kraljevo-Sector1 Sector 2 and Sector 3,

- I-669-MK (30/12/2020) subject: Revised conditions of the Institute for the Protection of Cultural Monuments in Kraljevo-Sector 1;
- ESIA information taken from the Spatial Plan development report (CIP, The Spatial Plan of the Morava Motorway Corridor Project, 2019).

Specifically,

- In November 2019, an archaeological study was conducted in the framework of the Spatial Plan development with the purpose of indicating the nearby cultural and archaeological sites around the proposed motorway and river regulation works route and measures to be taken in order to preserve mentioned sites;
- The social baseline data gathering studies carried out in September and October 2019 for the ESIA, including focus groups discussions held with local NGOs and Heads of Municipalities;
- The multiple site investigations performed throughout the ESIA development study in 2019 under the lead of qualified experts, including a local cultural heritage expert;
- This CHIA also reflects the outcome of the consultations we undertook in December 2020 and January 2021 as part of the Informed Consultation Plan study, part of the SLIP. While these consultations focused on discussion of impacts of operational noise and river regulation works, cultural heritage was brought up as an additional topic, however the local community members in attendance did not highlight specific concerns related to cultural heritage.

2.2 Area of Influence (Aol)

Chapter 5 of the ESIA determines Project's Aol for cultural heritage as the 500m area on each side of the Proposed Motorway Route. However, the rest of the ESIA study was developed considering the area of influence determined not only by the highway route, but by its associated facilities, and river regulation works areas as well. Within this Aol, we differentiated the Project affected areas as follows:

- Project footprint related to the motorway, associated facilities, construction facilities and river regulation work areas;
- A 50m strip from the Project footprint, where potential direct impacts on CH items may occur;
- A buffer zone corridor of 500m each side of the Project footprint where indirect impacts associated with the Project activities may be caused (temporary difficulty of access, temporary increase of traffic, temporary or permanent noise, temporary or permanent visual impact).

Based on baseline conditions and impact assessment, the 61 cultural heritage features identified within this Aol are considered as potentially impacted.

The Appendices to the report include CH registered sites located outside the Aol but in its proximity. Such sites were included for completeness purposes to eventually be part of stakeholder consultation discussion. The CH sites outside the Aol are likely not impacted by Project activities, although the grievance mechanism may in future capture some impact (such as difficulty of access) that will be managed through it.

Figures 1 and 2 shows two examples of the defined Aol. The Aol for the whole Project is depicted in Appendix 5 to this Report. Appendix 5 shows the locations of the CH features and easily depicts receptors located within the 50m strip.

Figure 1: Example of Project Aol

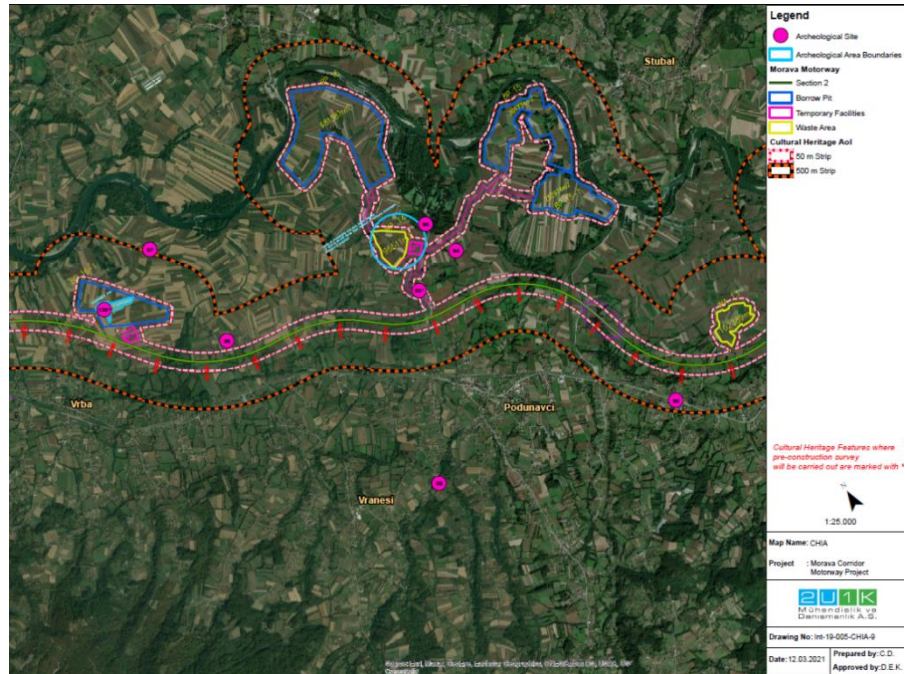
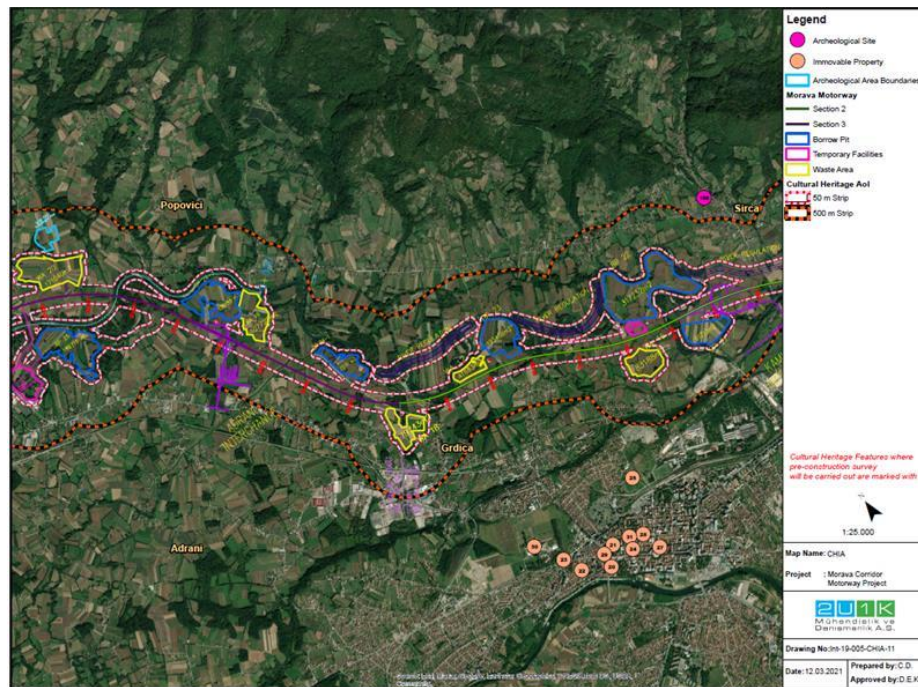


Figure 2: Example of Project Aol



3 Identification of Cultural Heritage (CH) Features

According to IFC PS 8, cultural heritage refers to (i) tangible forms of cultural heritage, such as tangible moveable or immovable objects, property, sites, structures, or groups of structures, having archaeological (prehistoric), paleontological, historical, cultural, artistic, and religious values; (ii) unique natural features or tangible objects that embody cultural values, such as sacred groves, rocks, lakes, and waterfalls; and (iii) certain instances of intangible forms of culture that are proposed to be used for commercial purposes, such as cultural knowledge, innovations, and practices of communities embodying traditional lifestyles.

A total of 245 cultural heritage sites (60 in Section 1, 151 in Section 2, and 34 in Section 3) were mapped and categorised in line with IFC PS8 based on whether they are tangible, replicable and/or critical features.

3.1 Tangible and Non-Tangible Features

All the identified cultural heritage sites in the Aol are tangible, that is movable or immovable objects, sites, structures, building groups, natural features and landscapes with archaeological, paleontological, historical, architectural, religious, aesthetic or other cultural value.

No intangible cultural heritage is reported to be present in the Aol. No information about presence of intangible cultural heritage nor concerns about it were raised by local communities during the ESIA consultation and the additional round carried out as part of the ICP. This is important to note as Project's ESIA categorised the two monumental trees located along the Aol as intangible CH. The presence in the Aol of monumental trees, and their associated CH value, was investigated during focus group discussions (see Section 6 for further details). Our assessment reveals that all the identified CH features are tangible, being either of archaeological value (Appendix 1), cultural heritage buildings (Appendix 2), and/or natural assets of cultural value (Appendix 4).

3.2 Replicable and Non-Replicable Features

According to IFC PS 8, replicable cultural heritage is defined as tangible forms of cultural heritage that can themselves be moved to another location or that can be replaced by a similar structure or natural features to which the cultural values can be transferred by appropriate measures. Archaeological or historical sites may be considered replicable where the particular eras and cultural values they represent are well represented by other sites and/or structures.

Nonreplicable cultural heritage may relate to the social, economic, cultural, environmental, and climatic conditions of past peoples, their evolving ecologies, adaptive strategies, and early forms of environmental management, where the (i) cultural heritage is unique or relatively unique for the period it represents, or (ii) cultural heritage is unique or relatively unique in linking several periods in the same site.

Appendix 3 reports the identified non-replicable CH buildings that are protected by national legislation by a specific reference act (see column "Decision"). Within the Aol only 2 legally protected features are present, namely the Neolithic settlement in Vrnjačka Banja and the Katićs' house in Tristenik, both outside the 50m strip.

3.3 Critical and Non-Critical Features

27 critical sites are present within the Aol, their critical status was determined on the basis of CH expert judgement in line with Project's applicable requirements.

According to IFC PS8, critical features are one or both of the following types of cultural heritage:

- internationally recognized heritage of communities who use, or have used within living memory the cultural heritage for long-standing cultural purposes; or
- legally protected cultural heritage areas, including those proposed by host governments for such designation, such as world heritage sites and nationally protected areas.

The law on Cultural Property (Official Gazette of the Republic of Serbia No. 71/1994, 52/2011-other law and 99/2011-other law) regulates the system of protection and use of cultural goods and determines the conditions for performing the activity of protection of cultural goods. According to Article 109 of the law,

- If archaeological sites or archaeological objects are encountered during construction and other works, the contractor shall immediately, without delay, suspend the works and inform the competent institute for the protection of cultural monuments and take measures not to destroy or damage the site and ensure it is preserved in the place and position in which it was discovered.
- If there is an imminent danger of damage to an archaeological site or object, the competent institute for the protection of cultural monuments shall temporarily suspend the works until it is determined based on this law whether the real estate or thing in question is a cultural good or not.
- If the competent institute for the protection of cultural monuments does not suspend the works, the works will be suspended by the Republic Institute for the Protection of Cultural Monuments.

As specified in the EIA Study Reports, the Project consulted both the Republic Institute for Protection of Cultural Monuments of Belgrade and the Regional Institute for Protection of Cultural Monuments of Kraljevo to identify the CH sites located within the Aol or in its vicinity. The mentioned institutes provided a set of mandatory location conditions together with a list of mitigation, management, and monitoring measures to maintain the legal granted authorization for specific CH items (see Section 5 for further info).

3.4 CH Analysis

All the mapped CH sites present in the Aol (500m strip each side of the route and project facilities) have been identified in the Appendices of this report, providing:

- numerical ID, with a same identity number in tables and maps (ID column);
- information on location (Section 1, 2 or 3) and their presence in the 50m and 500m strips;
- information on Municipality, Village, Name of the Building/Site; and
- information on item's sensitivity as defined in relation to legal constraints set by relevant authorities, location conditions and item's importance to the population.

Specifically,

- **Appendix 1** presents all archaeological sites;
- **Appendix 2** lists cultural heritage buildings;
- **Appendix 3** provides the list of registered immovable sites; and
- **Appendix 4** identifies the monumental trees present within the Aol.

Looking at the Aol, 61 receptors were identified in the Aol of which 52 are archaeological sites, 5 cultural heritage buildings, 2 registered immovable cultural sites, and 2 monumental trees.

Among those 61, it is important to note that 22 of the archaeological sites fall within the 50m strip.

4 Assessment of Impacts on Cultural Heritage Features

The ESIA Report identifies potential impacts with reference to project locations at different project stages. Specifically:

- Preconstruction stage: potential impacts connected to top-soil stripping, geological and geotechnical studies, mapping and alignment/site selection; and
- Construction stage: camp sites, material storage and excavation.

The remainder of Section 4 describes the potential impacts of pre-construction and construction activities on cultural heritage items within the Aol, by identifying the location and sensitivity for each item. The sensitivity has been determined based on professional judgement, and assessment of the items' location relative to the areas that could be affected by noise, access and visual impacts. Given the linear nature of the Project route, and the fact that the noise, access and visual impacts would last for similar timeframes along the route based on construction activities taking place, the magnitude of the impact in terms of the duration is envisaged to be similar throughout the route.

As further detailed in below subsections, within the 50m strip, potential impacts include irreparable damage due to nearby construction activities, and restricted or lost public access to sites during construction. Within the 500m strip, potential impacts include loss and/or difficulty of access to the sites, noise disturbances and visual impacts, which could temporarily or permanently affect use and enjoyment of the cultural heritage sites.

Section 5 describes the mitigation measures to be applied to reduce residual impacts, which are to be implemented throughout the route to mitigate impacts for all cultural heritage items. In addition, conditions for specific locations as required by the IPCM of Kraljevo are listed separately in the section.

Table 1: Summary of Impacts on Cultural Heritage

Project Stage	Sub Project Stage	Potential Impact Locations	Activity/Source
Pre-Construction Activities	Site preparation	Camp Sites, Borrow Pits, Quarries, Asphalt Plants, Concrete Batching Plant, Construction corridor, Access Roads, River Regulation	Top-soil stripping
			Geological and Geotechnical Studies
			Mapping and Alignment/site selection
Construction Activities	Construction	Camp Sites, Borrow Pits, Quarries, Asphalt Plants, Concrete Batching Plants, Construction corridor, Access Roads, River Regulation	Camp Sites
			Material Storage
			Excavation, Blasting and Piling activities

The most critical phase with respect to potential impact on cultural heritage is construction. Project development will have a potential physical impact on cultural heritage sites through direct ground disturbance during construction. Direct disturbance may occur in the areas on the motorway route

footprint and the footprint of the temporary and permanent facilities (including above ground installations, construction camps and other construction storage and work areas).

There is also potential for direct disturbance to sites located along Project access roads. Project traffic, especially traffic of heavy vehicles, and movements of people near to or on top of sites can have a direct impact due to physical damage to the surface and subsurface cultural heritage, removal of artefacts, etc. There is also a potential indirect impact due to movement of people and Project traffic outside the direct Project footprint, which can induce access and damage to cultural heritage, including removal of artefacts.

Physical damage to cultural heritage sites results in the loss of the knowledge and cultural values that could have been gained through subsequent archaeological studies.

Physical damages to monuments are also to be considered as potential impacts, although they are typically limited and associated with vibrations due to the nearby passing of heavy equipment or due to other sources associated with the construction activities.

The Project's final route was defined taking into account the necessity to protect cultural heritage in project design and execution. This was done in cooperation with relevant local authorities and the assistance of local experts.

Impacts related to community access and protection of CH on-site are differentiated among the 50m and the 500m strip, item's sensitivity is specified in the relevant table. In the unlikely scenario of impacts to an unmapped CH item, including intangible being raised by community members during construction, such impacts will be investigated and remedied (to the extent possible) in line with the grievance mechanism.

50m strip

Only 22 CH items, all of which are archaeological remains, will be potentially directly affected by construction impacts being located at a distance of less than 50 meters from the project footprint. If not properly managed, those features could be irreparably damaged during the construction phase. In addition, the availability of access to sites might be compromised during the construction phase.

The following table reports the totality of CH sites potentially directly impacted. Each item is traceable on Appendix 5 map through the numerical ID as reported in column 'Appendix 5, Item ID'.

Table 2: List of potentially impacted CH items in the 50m strip

Cultural Heritage Item	Section	Appendix 5, Item ID	Sensitivity
Cicevac, Pojate, Staro selo	1	1	YES
Varvarin, Mascara, Bedem - fort		4	YES
Krusevac, Makresane, Jazbine		16	YES
Varvarin, Šanac, Kolarac		11	YES
Kruševac, Makrešane, Sastavci		17	YES
Krusevac, Lazarica, Buzdovani		23	YES
Kruševac, Lazarica, Jasički put		24	YES
Krusevac, Citluk, Konopljara		27	YES
Krusevac, Kukljin, Bogomoljiste		31	YES
Kruševac, Lazarica, Odžinac -Miljkovička		33	YES
Trstenik, Osonica, Nemrak	2	43	YES
Vrnjacka Banja, Vrnjci, Martacici		78	YES
Vrnjacka Banja, Vrnjci, Skela Crnoglavaca		79	YES
Vrnjacka Banja, Novo Selo, Grabovi		82	YES
Vrnjacka Banja, Novo Selo, Veselinovici		83	YES
Vrnjacka Banja, Novo Selo, Stevanovici		86	YES
Vrnjacka Banja, Novo Selo, Šibalići		134	YES
Kraljevo, Ratina, Divlje polje		98	YES
Kraljevo, Mrač, Ade, necropolis		109	YES
Staro Groblje, Bela Voda, Necropolis		137	YES
Čačak, Katrga, Grobljuša	3	113	YES
Cacak, Mrcajevci, Crkvine		136	YES

500m strip

In addition to the 50m strip identified items, 39 remaining cultural heritage sites have been mapped (30 archaeological remains, 5 cultural heritage buildings, 2 registered immovable cultural sites and 2 monumental trees). These CH items could suffer the following impacts:

- (i) loss and/or difficulty of access to the site by the affected community during construction;
- (ii) noise due to construction works or road in operation that could negatively affect the fruition of the identified cultural heritage features; and
- (iii) visual impact.

These three types of impact could temporarily or permanently compromise the use of the affected cultural heritage.

Two registered immovable cultural sites are present within the 500m strip (Table 3), namely the Neolithic settlement in Vrnjačka Banja and the Katićs' house in Trstenik. In particular, the Neolithic settlement is in proximity of the 50m strip boundary.

Table 3: List of Potentially Impacted Registered Immovable Cultural Sites in the Aol

Registered Immovable Item	Section	Appendix 5, Item ID	Sensitivity
Vrnjačka Banja, Vrnjci, Neolithic settlement LAĐARIŠTE	2	11	YES
TRSTENIK, old house in Trstenik – Katićs' house	2	12	YES

Table 4 lists 5 Cultural heritage buildings and 2 monumental trees that will be likely affected by access, noise and visual impacts. In particular, among them, places of worship are sensitive, being features which need continuous access by population and where practices requiring a low noise level are conducted. One site has been identified in the Aol which match the abovementioned criteria, namely the Church of Sv. Joachim and Anna in Čačak. According to Noise Modelling Report however, Receiver58 (R58), where Church of Sv. Joachim and Anna is, is determined as "moderate". According to the report, moderate means that magnitude of impact is large but receiver has low responsivity. As relates to operation, given the fact that the church is about 400 m away from the roadway centreline noise and visual impacts are considered negligible. Remaining historical buildings of cultural interest could also be subject to the impacts listed above but to a lesser extent as these will not compromise their primary functionality.

As for the monumental trees, they are presently accessible through unpaved village roads. Project will impact the access to the sacred tree located in Bela Voda village during construction thus appropriate mitigation measures will be undertaken (see Section 5). On the other hand, the sacred tree located in Donja Gorevnica Village is not expected to be impacted as community will use the existing path with no access limits.

Table 4: List of Potentially Impacted CH Buildings and Monumental Trees in the Aol

Cultural Heritage Item	Section	Appendix 5, Item ID	Appendix 5, Item ID	Sensitivity
Krusevac, Citluk, Miladin Kitanovic House	1	6		NO
Krusevac, Citluk, Nikola Ciric's house	1	7		NO
Trstenik, Medvedja, Dragan Sremac's house	2	33		NO
Trstenik, Medvedja, school building	2	35		NO
Cacak, Preljina, Church of Sv. Joachim and Anna	3	73		YES
Monumental Tree, Krusevac	2	1	Monumental tree	NO
Stabla Čačka, Monumental Tree, Cacak	3	2		NO

Table 5 lists all archaeological remains of the 500m strip and provides an assessment on items sensitivity based on professional judgement, using the location of the site relative to the area that could be affected by noise, access and visual impacts.

Archaeological remains found within the 500m strip include remains of prehistoric and medieval necropolises with graveyards and human skeletons located underground, Turkish settlements and early Byzantine fortifications and settlements.

For cultural heritage features outside the Aol, potential impacts during the construction phase will be likely temporary access difficulties, while in the operation phase they are unlikely to be impacted.

Table 5: List of Potentially Impacted Archeological Remains in the Aol (including 50m strip)

Cultural Heritage Item	Section	Appendix 5, Item ID	Sensitivity
Cicevac, Pojate, Staro selo	1	1	YES
Varvarin, Mascara, Bedem - fort		4	YES
Varvarin, Mascara, Necropolis in road profile		5	NO
Varvarin, Bosniaks, Ornice		6	NO
Varvarin, Mascara, Ledine		7	YES

Cultural Heritage Item	Section	Appendix 5, Item ID	Sensitivity
Varvarin, Mascara, Selište		8	NO
Varvarin, Šanac, Kolarac		11	YES
Varvarin, Bošnjane, Ornice		15	NO
Krusevac, Makresane, Jazbine		16	YES
Kruševac, Makrešane, Sastavci		17	YES
Krusevac, Makresane, Cair		18	NO
Krusevac, Makresane, Old Cemetery		20	NO
Krusevac, Lazarica, Buzdovani		23	YES
Kruševac, Lazarica, Jasički put		24	YES
Krusevac, Citluk, Konopljara		27	YES
Krusevac, Kukljin, Bogomoljiste		31	YES
Krusevac, Jasika, Latin Bar		32	NO
Kruševac, Lazarica, Odžinac -Miljkovička		33	YES
Kruševac, Jasika, Krstići		34	NO
Trstenik, Osonica, Nemrak	2	43	YES
Trstenik, Grabovac, Turkish Cemetery		44	NO
Trstenik, Velika Drenova, Toponicka River		56	NO
Trstenik, Osaonica, Turkish Cemetery		64	NO
Trstenik, Grabovac, Brod na Moravi		65	NO
Vrnjacka Banja, Rudjinci, Carp Code		71	NO
Vrnjacka Banja, Vrnjci, Draskovic		74	NO
Vrnjacka Banja, Vrnjci, Duboki Potok		77	YES
Vrnjacka Banja, Vrnjci, Martacici		78	YES

Cultural Heritage Item	Section	Appendix 5, Item ID	Sensitivity
Vrnjacka Banja, Vrnjci, Skela Crnoglavaca		79	YES
Vrnjacka Banja, Vrnjci, Grkkara-Trnara		80	NO
Vrnjacka Banja, Novo Selo, Grabovi		82	YES
Vrnjacka Banja, Novo Selo, Veselinovici		83	YES
Vrnjacka Banja, Novo Selo, Stevanovici		86	YES
Vrnjacka Banja, Novo Selo, Miodragovici		87	YES
Vrnjacka Banja, Novo Selo, Šibalići		134	YES
Vrnjacka Banja, Gracac, Calija		90	NO
Vrnjacka Banja, Podunavci, Rakovica		93	YES
Vrnjacka Banja, Podunavci, Usinka		94	YES
Vrnjacka Banja, Podunavci, Bare		95	YES
Vrnjacka Banja, Vranesi, Trnovaca		96	YES
Kraljevo, Ratina, Divlje polje		98	YES
Kraljevo, Miločaj, Gorelo polje		108	NO
Kraljevo, Mrsać, Ade, necropolis		109	YES
Kraljevo, Vrba, Grckara necropolis		135	YES
Staro Groblje, Bela Voda, Necropolis		137	YES
Čačak, Katrga, Grobljuša	3	113	YES
Cacak, Donja Gorevnica, Crkvina		120	NO
Čačak, Mojsinje, Bent, Lugovi		123	YES
Cacak, Baluga, Rainci, Old Cemetery		129	NO
Čačak, Baluga, Necropolis		131	YES
Cacak, Mrcajevci, Crkvine		133	YES

5 Mitigation, Management and Monitoring Measures

During the design and pre-construction phase, existing cultural heritage features were taken into consideration during the route selection process together with the provision of a Terms of Reference of the Chance Find Procedure to be developed and implemented for all Project sections.

Through the Employer, the project appointed the Institute for the Protection of Cultural Heritage of Kraljevo to abide to obligations related to national legislation. As recognized supervising institution, the Institute carries out archaeological and geophysical investigations on parcels indicated in the location conditions (see Table 6) and submit reports within 30 days after the completion of the works. The investigations that were carried out led to the discovery of archaeological materials on some portion of lands interested by the project. Continuous engagement with IPCM and submission of relevant reports allowed the Project to obtain approval for construction works subject to some location conditions, requiring implementation of management and mitigation measures specific as listed in Table 6.

A Cultural Heritage Management Plan (CHMP) will be developed in accordance with the requirements of IFC PS8 for construction and operation phase and the scope of and approach of the present CHIA document, particularly with reference to archaeological monitoring. This include the development of a Chance Find Procedure (CFP) to properly manage any unknown archaeological remains that may be discovered during the excavations works. Below is the process, agreed with the Republic Institute for Protection of Cultural Monuments (RIPCM) of Belgrade, to be followed for chance find during the execution of construction works:

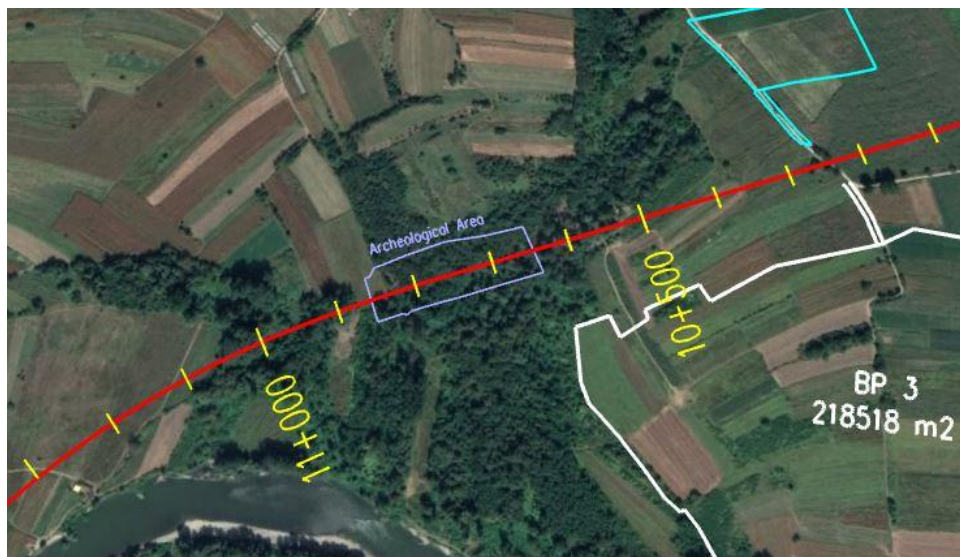
- Since the construction area is a floodplain, there is the possibility that some material remains from the past could be found at greater depths below the alluvial layer, therefore a measure of continuous archaeological supervision is prescribed during the performance of works.
- If archaeological materials are found during the performance of earthworks, the Contractor should be obliged to suspend the works. If it is found that the given immovable or movable material has the status of a cultural property, expert supervision could temporarily suspend the works. In accordance with the nature of the property, the Institute for Protection of Cultural Monuments can prescribe measures of continuous supervision.
- If construction debris of interest for the Republic of Serbia are found during works on the motorway, the competent Institute will prepare measures for technical protection of the discovered remains in agreement with the Republic Institute and the relevant Ministry of Culture and Information.
- The Contractor/Investor is obliged to take measures to protect the cultural heritage from being destroyed or damaged.
- Costs of supervision, digging and preservation of the discovered materials shall be borne by the Investor.
- If works on the highway include construction of vehicle depots, landfills or borrow pits for building rock, contact the Institute for the issue of additional conditions.
- Every change in sections of motorway alignment includes the acquiring of additional conditions of the Institute.
- Archaeological supervision on the territory of Serbia can be carried out by protection institutions (Museums and Institutes), as well as scientific institutions (institutes or Faculty of Philosophy in Belgrade).
- If supervision is conducted by another institution, and not the Institute in Kraljevo, the Investor shall be obliged to inform the Institute about this prior to the start of works, and he will deliver proof of contracted cooperation to the Institute.

- The institution in charge of the supervision shall be obliged to deliver a report to the Institute after the completion of supervisory works, within 30 days at the latest.
- Supervision of the implementation of the issued protection measures will be carried out by the Institute for the Protection of Cultural Monuments in Kraljevo as the territorially competent protection institution.
- The Investor is obliged to inform the Institute for the Protection of Cultural Monuments in Kraljevo on time about the start and end of works, in order to verify on site that the works are being carried out in accordance with these conditions.
- The Institute has the right to order a prohibition of works if they determine that works on the alignment are not being performed in accordance with the issued requirements.

Visual checks and site inspection reports will also be implemented as monitoring tools throughout the construction period.

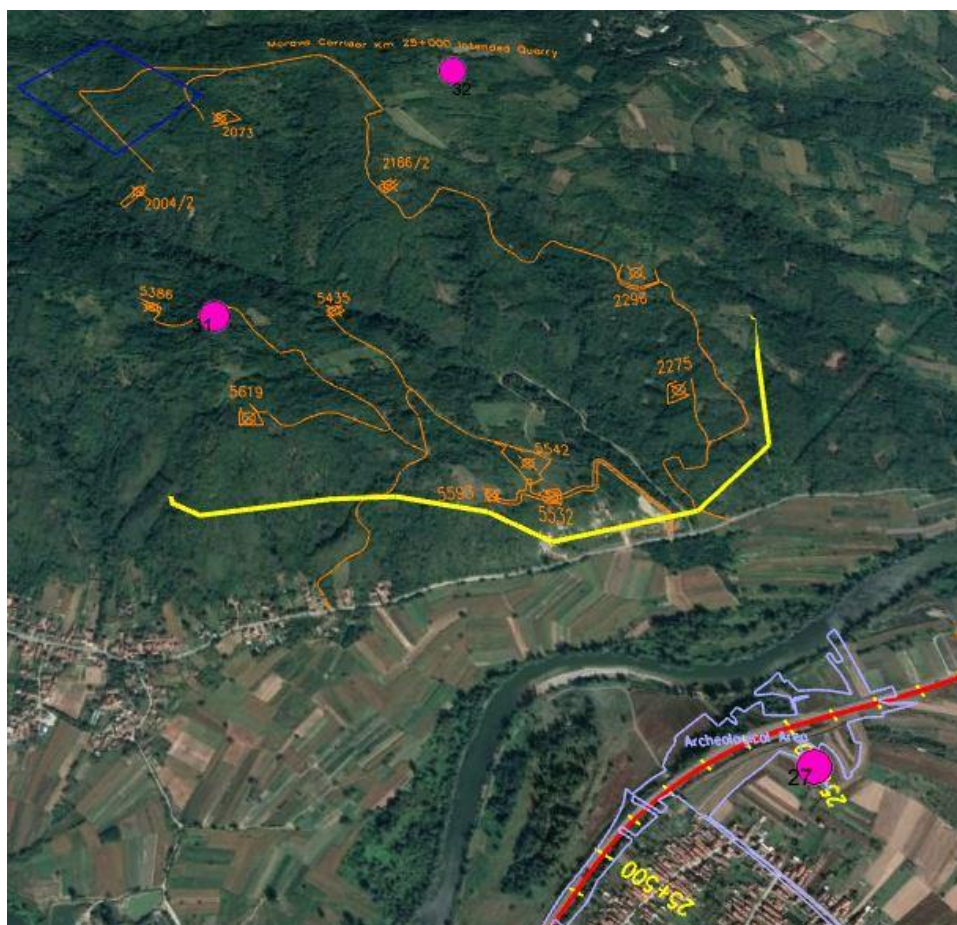
In addition to the above-listed process, which applies to all the affected CH items, the Institute for Protection of Cultural Monuments (IPCM) of Kraljevo has also defined technical protection and mitigation measures on specific CH items, whose implementation is mandatory for maintaining the institute's authorisation to proceed. The CH items which have location conditions are the ones listed in Table 6. Among those, it is important to note that Kraljevo IPCM prescribed the construction of a retaining wall at the area of archaeological interest KM10+700 (see image below) corresponding to Maskara Bedem Fort, CHIA item ID 4. The project undertook several meetings and exchanged official correspondence to define wall final lay-out as management and mitigation measure capable to guarantee avoiding the zone of protection set out by the IPCM.

Figure 3: Location of Maskara Bedem Fort (CHIA Item ID 4)



In relation to the Bogomoljiste site in Kukljin (CHIA item ID 31), IPCM requested a comprehensive protective archaeological research to be carried out so to allow decision on granting authorization for geological research and exploitation and changes in terrain shape for the exploitation of a quarry.

Figure 4: Location of Bogomoljste site in Kukljin (CHIA item ID 31)



The table summarizes the mandatory requirements as set by the IPCM of Kraljevo in relation to specific CH item. Column ‘Location Conditions’ contains extracts from the documents setting the specific location conditions for each item, while the column ‘Affected Cadastral Plots’ gives the reference locations on the cadastral map.

Table 6: List of CH Items with Specific Location Conditions

CH Item	ID Item	Location Conditions (extracts)	Affected Cadastral Plots
Kruševac, Lazarica, Jasički put	24	If it is planned to remove the surface layers or perform any works that involve levelling of the existing ground level, it is necessary to provide archaeological supervision in order not to disturb the cultural layers that could exist below the surface of the terrain.	794/2, 793, 792, 814/2, 873/1, 882, 883/1, 883/2, 883/3, 882, 883/4, 883/5, 883/6, 884/1, 884/2, 885/5, 885/3, 885/6, 885/1, 884/2, 884/3, 885/2, 885/4, 885/7, 917/7, 2084/1, of Cadastral Municipality (CM) Lazarica.

CH Item	ID Item	Location Conditions (extracts)	Affected Cadastral Plots
Varvarin, Mascara, Bedem fort	4	<p>Performance of any kind of works on affected cadastral plots shall be prohibited, since the south rampart of the location with belonging towers is located on these plots.</p> <p>Amend technical solutions for section of the road between 10+650,000 to 10+850.000, so that the change in terrain's appearance is minimal, and only in the zone of suggested driving and emergency lanes with shoulders.</p> <p>A vertical barrier should be set up, immediately after the right lane shoulder, which would be the least invasive option for the location, while also securing this part of the road.</p> <p>After amending the design documentation for this section of the road, the Design shall be delivered to the Institute for inspection and consent.</p> <p>The measure of continuous archaeological supervision shall remain in force for section of the road from 10+650.000 to 10+850.000 even after the amendment of the design, due to the vicinity of the location and the possibility of new archaeological material appearing.</p>	2255, 2314/1, 2314/2, 2256, 2254/1, 2253, 2251, 2250 and 2249 of CM Maskare.
LAĐARIŠTE, Neolithic settlement Lađarište	11	Stipulated measure of protective archaeological dig on the section of motorway alignment on affected cadastral plots.	2692/1, 2692/5, 2692/2, 2692/3, 2692/4, 2691/3, 2691/1, 2690/1, 2690/2, 1688/1, 2688/2, 1681/4 of CM Vrnjačka Banja.
Trstenik, Osonica, Nemrak	43	Stipulated measure of protective archaeological dig on the section of the alignment, on affected cadastral plots.	723, 728, 729, 730, 731, 733, 734, 738, 737, 739 of CM Štulac.
Kraljevo, Ratina, Divlje polje	98	Stipulated measure of protective archaeological dig on the section of the alignment, on affected cadastral plots.	52, 62/1, 62/2. 69 and 70 of CM Ratina.
Kruševac, Čitluk, Konopljara	27	Stipulated measure of protective archaeological dig on the section of the alignment for affected cadastral plots.	7/1, 9/5, 9/2, 1275/2, 10/4, 11/4, 22/1,21/1, 16/1, 15/2, 14/2, 41/1, 7/2, 26/1, 11/5, 2060/1, 1275/2, 1276/1, 1278, 1280/4, 1280/5, 1279/2, 1279/3, 1284/2, 1281/1, 1284/3, 2061/90, 2061/100, 1282, 2047/1, 1274/1, 1273/1, 1272/1, 1271/1, 1270/1, 1280/1, 1280/2, 128/3, 1277/2, 13/2, 14/3, 15/2, 16/2, 21/2, 20/1, 23/1, 11/1, 11/5, 2060/2, everything of CM Čitluk.

CH Item	ID Item	Location Conditions (extracts)	Affected Cadastral Plots
Cacak, Mrcajevci, Crkvine	136	Since the works are performed on the plots surrounding the registered site, it is necessary to provide archaeological supervision over affected cadastral plots.	2156, 2158/2 and 2159/4, of CM Mrčajevci.
Čačak, Baluga, Necropolis	131	Since the works are performed on the plots surrounding the registered site, it is necessary to provide archaeological supervision at the part of scissors crossover 106+891.93 towards the roundabout at the airport in Preljina.	61, 62, 66/1, 66/2, 63/4, 63/5, 63/8, 64/3, 64/2, 64/1, 64/5, 63/2, 63/1, 63/10, 63/3, 113/1, 113/2, 2130, 2129/4, 2129/6, 2129/5, 2128/3, 2128/1, 2097, 2096, 2095, 2094/2, 2094/1, 2093, 2089/1, 2267/4, 228711, 70712 Of CM Baluga (Ljubička).
Krusevac, Kukljin, Bogomoljiste	31	<p>Any exploration and exploitation works, i.e. any unauthorized digging of the earth and removal of stones are prohibited.</p> <p>It is prohibited to drill new roads, spill and dispose of waste and harmful materials, store materials and create landfills at the archaeological site.</p> <p>Conducting geological research and exploitation and changes in the shape of the terrain may be allowed only after previously provided comprehensive protective archaeological research, with adequate presentation of findings and conditions and consent of the competent protection service.</p>	5471, 5470/1, 5470/2, 5469, 5468, 5495, 5485, 5487, 5499, 5501/2, 5501/1, 5467, 5431/1 (part) , 5554/1, 5553, 5543, 5544, 5552/1, 5545, 5552/2, 5567/1, 5567/2, 5570, 5566/2, 9339 (part), 5572, 5571, 5546, 5551, 5546, 5551, 5550, 5500 (part), 5568/1, 5568/2, 5547, 552, 5497, 5489, 5498, 5522, 5521, 5520, 5519, 5518, 5523, 5524, 5517, 5506, 5509, 5508, 5507 , 5505, 5504, 5541, 5525, 5526, 5516, 5515, 5514, 5575, 5574, 5573, 5589/2, 5584, 5583, 5589/3, 5585, 5589/1, 5569, 5590, 5549, 5548, 5539 , 5540/2, 5581/1, 5581/2, 5582, 5584, 5583, 5589/3, 5585, 5589/1, 5569, 5590, 5549, 5548, 5539, 5540/2, 5581/1, 5581/2 , 5582, 5581/3, 5586, 5588, 5587, 5591, 5592, 5593, 5594, 5538, 5537, 5536, 5540/1, 5533, 5534, 5531, 5532, 5597 (part), 5596 (part), 5595 (part), 5530/1 (part), 5530 (part) , 5529 (part), 5528 (part), 5527 (part), 5513/2 (part), 5513/1 (part), 5512 (part), 5511 (part), 5510 (part), 5503 (part), Of CM Kukljin.
Necropolis - Grckara (Vrba village)	135	Prior to commencement of any works the measure of archaeological researched is prescribed for the affected cadastral plots. In order to narrow down the scope of archaeological	427/1, 427/2, 427/3, 426, 424, 450, 379/2, 38071, 380/2, 381/1, 381/2, 382, 383, of CM Vrba.

CH Item	ID Item	Location Conditions (extracts)	Affected Cadastral Plots
		research, it is possible to carry out geophysical research on the subject plots.	
Vrnjacka Banja, Novo Selo, Stevanovici	86	Area 60+500 Screen Plant encroaches the zone of archaeological interest hence the measure of continual archaeological monitoring is prescribed on affected plots.	1309, 1310/2, 1298/1, 1298/2, 1297/1 and 1308/2 of CM Novo Selo.
Staro Groblje, Bela Voda, Necropolis	137	BP 8-1 is located in the area where the medieval necropolis has been documented. As there are no exact information on the necropolis location, the measure of continual archeological monitoring is prescribed on affected plots.	3639/1, 3639/2, 3637, 3636, 3635 3638/2 and 3638/1 of CM Bela Voda.
Varvarin, Mascara, Gradine and Ledine necropolis	7; 9	BP 2 is located close to the two necropolis, thus the measure of continual archaeological monitoring is prescribed.	
Vrnjacka Banja, Vrnjci, Martacici-Klindojevici, Duboki Potok and Ladjariste	77; 78; 11	BP 13 and WA 11 are located in vicinity of the three archaeological sites, therefore the measure of continual archaeological monitoring is prescribed.	
Vrnjacka Banja, Podunavci, Bare, Usinka and Rakovica	93; 94; 95	WA 14 и 66+000 Screen Plant with access road, are located in zones of archaeological interest. Thus, the measure of continual archaeological monitoring is prescribed.	
Čačak, Mojsinje, Bent, Necropolis	123	WA 27 (101+200) and BP 31-2 are located in zones of archaeological interest, thus the measure of continual archaeological monitoring is prescribed.	

Furthermore, the IPCM of Kraljevo prescribed that for potential paving production activities next to the mouth of the Ibar River into Morava River, it is necessary to undertake archaeological monitoring during performance of any works, as there is indication that a Turkish settlement existed in this area.

In addition, the terrain reconnaissance of the motorway alignment discovered the following surfaces where archaeological material was found as reported in Table 7. Based on these discoveries, the IPCM prescribed measures of continuous archaeological monitoring on the affected cadastral plots.

Table 7: List of Archaeological Finds and Related Cadastral Plots

Archaeological finds	ID Item	Affected cadastral plots
Duboki potok, Vrnjci	77	2693, 2696, 2700, 2705/2, 2705/1, 2716/1, 2717, 2719/ of CM Vrnjačka Banja.
Martačići, Vrnjci	78	2572/3, 2569, 2577, 2579/2, 2579/1 of CM Vrnjačka Banja.
Veselinovići, Novo Selo	83	852/1, 852/2, 853, 854, 858, 855/1 of CM Novo Selo.
Miodragovići and Stevanovići, Novo Selo	86; 87	1343, 1339/1, 1344/2, 1344/1, 1344/3, 1338/1, 1377, 1300, 1296, 1299/2, 1298/1, 1298/2, 1297/1, 1297/2, 1309, 1308/2, 1308/3, 1308/1, 1308/4, 1308/5, 1308/6 and 1308/7 of CM Novo Selo.
Skela Crnoglavaca, Novo Selo	79	2187/1, 2187/2, 2204/1, 2202/1, 2201/1, 2200/1, 2212/1, 2213/1, 2216/1, 2217/1, 2215, 2214, 2232, 2233 of CM Novo Selo.
Vrnjacka Banja, Novo Selo, Šibalići	134	980, 986/1 and 1007 of CM Novo Selo.
Vrnjacka Banja, Vranesi, Trnovaca	96	935, 936 and 939/2 of CM Vraneša.
Ćičevac, Pojate, Staro Selo	1	2708/1, 2710 of CM Pojate.
Varvarin, Šanac, Kolarac	11	779, 780, 781, 782, 783. 4806/47, 4806/48, 784, 785, 4806/50, 7861/1, 4806/51, 786/2, 4806/52, 787, 4806/53, 788, 4806/54, 7168/107, 4806/55, 7168/108, 4806/56, 4806/57, 4806/58, 4806/59, 7168/109, 7168/110, 7168/111, 7168/112, 7168/101, 4806/60, 4806/61, 7168/113, 4806/62, 7168/189, 4806/185, 7168/188, 4806/186, 7168/114, 812, 4806/63, 7168/115, 813, 4806/64, 814, 4806/65, 815, 4806/66, 816/1, 4806/67, 816/2, 4806/68, 816/3, 4806/70, 4806/69, 809/2, 4806/71, 4806/72, 817, 4806/73, 818, 4806/74, 819, 4806/75, 820, 4806/76, 821/1, 4806/77, 821/2, 821/3, 822, 823, 824, 825, 826, 827/2, 827/3, 828, 831, 832, 833/1, 833/2, 4806/78, 4806/79, 4806/80, 4806/81, 4806/82, 4806/83, 836, 837, 838, 839, 842, 843, 844, 846, 847, 848, 849, 850/1, 850/2, 852, 854, 857, 858, 859, 860/1, 862, 863, 865, 67, 864 of CM Šanac.

Archaeological finds		ID Item	Affected cadastral plots
Kruševac, Makrešane, Jazbine	16	7175, 2161/4, 2160/1, 2167/1, 2167/4, 2170/4, 2170/2, 2171/1, 2174/1, 2176/1, 2179/4, 2180/5, 2181/1, 2182/1, 2184/1, 2185/1, 2186/1, 2187/1, 2188/2, 2190, 2192/1, 2194, 2196/1, 2199/1, 2200/1, 2200/4, 2201/1, 2201/4, 2202/1, 2205/1, 2206/1, 2207/1, 2208, 2211/1, 2212, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 7168/20, 7168/21, 7168/22, 7168/23, 7168/24, 7168/26, 7168/27, 7168/28, 7168/29, 7168/30, 7168/32, 7168/33, 7168/34, 7168/35, 7168/36, 7168/37, 7168/38, 7168/39, 7168/40, 4806/189, 4806/10, 4806/11, 4806/12, 4806/183, 4806/197, 4806/13, 4806/14, 4806/15, 4806/16, 4806/17, 4806/18, 4806/19, 4806/190, 4806/191, 4806/182, 4806/193, 4806/23, 7168/182, 7168/184, 7168/183, 7168/42, 7168/55, 7168/56, 7168/63, 7168/64, 7168/65, 7168/66, 7168/67, 7168/68, 7168/69, 7168/70, 7168/80, 7168/73, 7168/74, 7168/75, 7168/76, 7168/77, 7168/78, 7168/79, 7168/81, 7168/82, 7168/84, 7168/85, 2285/, 2285/1, 2286/1, 2287/1, 2288/3, 2288/2, 2289/1, 2290/1 of CM Makrešane.	
Kruševac, Makrešane, Sastavci	17	Measure of protective archaeological digging is prescribed on the section of the route on cadastral plots 7175, 2601/1, 2602/1, 2603/7, 2604/1, 2603/6, 2605/11, 2603/1, 2606/1, 2607/1, 2608/1, 2609/4, 2609/1, 2610/1, 2610/10, 2610/9, 2611/1, 2612/1, 2613/1, 2614/1, 2617/1, 2617/5, 2618/1, 2619/2, 2620/2, 2621/2, 2622/2, 263/2, 7169, 3420/1, 686/11, 687/1, 688/1, 689/1, 688/2, 420/4, 683, 682, 3420/2, 3420/4 of CM Makrešane	
Kruševac, Buzdovani	23	1723/1, 1724, 1727/2, 1728/2, 1733/2, 1721/1, 1722/1, 1722/4, everything CM Bivolje; 418/4, 419/4, 2126/8, 2140, 2126/7, 419/2, 420/3, 420/5, 421/2, 422/2, 423/2, 435/1, 437, 434/1, 214/1, 433/1, 433/2, 432/2, 431/1, 430/3, 430/1 of CM Lazarica	
Kruševac, Jasički put	24	794/2, 793, 792, 814/2, 873/1, 882, 883/1, 883/2, 883/3, 882, 883/4, 883/5, 883/6, 884/1, 884/2, 885/5, 885/3, 885/6, 885/1, 884/2, 884/3, 885/2, 885/4, 885/7, 917/7, 2084/1 of CM Lazarica.	
Kruševac, Lazarica, Odžinac -Miljkovička	33	3271/1, 3187/2, 3186/1, 3186/2, 3185/1, 3185/2, 3184/1, 3144/7, 3145/1, 3146/1, 3147/1, 3148/1, 3149/1, 3261/4, 3207, 3182/2, 3182/1, 3184/2, 3183/2, of CM Lazarica.	

In line with IFC PS8, the CHMP will contain the mitigation measures listed in the following paragraphs.

With regard to visual impacts, limited access and noise issues that could potentially affect all the cultural heritage items located in the AoI, the related mitigation measures are described in ESIA Chapter 8 (Environment & Social Management and Monitoring Plan), and include, among others, acoustical insulation, provision of underpasses and installation of visual barriers.

The Project should conduct a pre-construction survey in order to address the proper management of the 22 archaeological remains located within the 50m strip, competent professionals should be

retained to assist in the identification and protection of cultural heritage.¹ It should be assessed on a case-by-case basis if the archaeological remain will be directly affected by the construction works, aiming to avoid any impact, and, if not possible, by reducing it with appropriate protection measures. Relocating the cultural heritage features should be considered as the last option.

The remaining 34 archaeological items of the 500m strip should be monitored throughout the construction phase. Monitoring should be carried out with the support of a specialist and in continuous communication with relevant local institutions. The same applies to the 6 cultural heritage buildings and 2 monumental trees. Through collaboration with local communities and authorities, access of the population to these cultural features should be guaranteed throughout the construction phase, and when not possible, access interruption should be minimised. With specific reference to the Bela Voda Village tree, the project will guarantee access to the tree through underpasses during operation (see following picture).

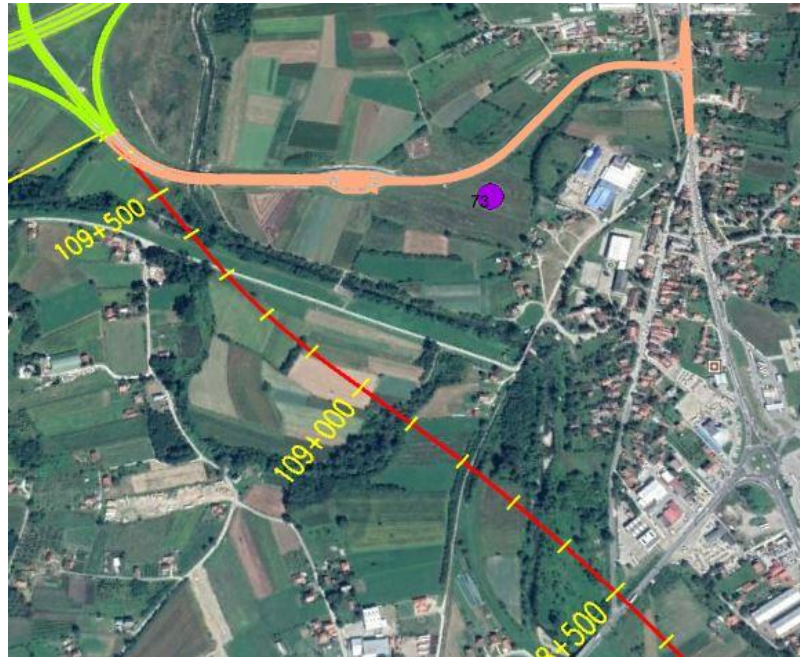
Figure 5: Location of the Bela Voda Village underpass



Particular attention will be given to the Church of St. Joachim and Anna in Cacak, located at about 400m from the motorway centreline but considered sensitive due to its social function. Mitigation measures during construction may include interruption of works in the proximity of the sites at determined occurrences (to be agreed with local communities and administrative and religious institutions) in order to allow the local population to carry out relevant activities. These mitigation measures should be decided through collaboration with relevant stakeholders and implemented prior to the start of the construction works close to churches. No mitigation measures are expected to be required during operation phase given church distance from the roadway centreline.

¹ All the items requiring a preconstruction survey are duly marked with * in Appendix 5

Figure 6: Location of Church of St. Joachim and Anna in Cacak (CHIA item ID 73)



In line with IFC PS8, the two legally protected areas listed in Table 3, namely the Neolithic settlement in Vrnjačka Banja and the Katićs' house in Tristenik, will require proper mitigation and monitoring measures. Their management will not only have to comply with national cultural heritage regulations but additionally with the outcomes of continuous consultations with local communities, key stakeholders and specialists throughout the duration of the construction works to ensure that any possible impacts are promptly avoided or minimised. Based on the outcomes of consultations, additional programs may be developed by the Project to promote and enhance the conservation of these protected areas.

The Project active grievance mechanism along with a continuous communication channel with local communities and institutions should ensure that all the cultural heritage features, including the ones located outside the AoI, are correctly monitored to promptly implement appropriate mitigation measures in case of critical issues arising.

Mitigation measures during the operation phase will be mainly related to noise and visual impacts as described in Chapter 8 of the ESIA.

The following table assesses each CH item on the basis of CH expert judgement in relation to sensitivity, replicability and criticality.

Table 8: Cultural Heritage sites within the Aol

Cultural Heritage Item	Section	Appendix 5, Item ID	Site Type	Sensitivity	Replicable	Critical	50m	500m	Location Condition
Vrnjačka Banja, Vrnjci, Neolithic settlement LAĐARIŠTE	2	11	Registered Immovable Cultural Site	YES	NO	YES	NO	YES	YES
TRSTENIK, old house in Trstenik – Katić's house		12		YES	YES	YES	NO	YES	NO
Krusevac, Citluk, Miladin Kitanovic House	1	6	Cultural Heritage Building	NO	YES	NO	NO	YES	NO
Krusevac, Citluk, Nikola Ćirić's house		7		NO	YES	NO	NO	YES	NO
Trstenik, Medvedja, Dragan Sremac's house	2	33		NO	YES	NO	NO	YES	NO
Trstenik, Medvedja, school building		35		NO	YES	NO	NO	YES	NO
Cacak, Preljina, Church of Sv. Joachim and Anna	3	73		YES	NO	NO	NO	YES	NO
Monumental Tree, Krusevac	2	1		Monumental tree	NO	NO	NO	NO	YES
Stabla Čačka, Monumental Tree, Cacak	3	2	NO		NO	NO	NO	YES	NO
Cicevac, Pojate, Staroselo	1	1	Archaeological Remain	YES	NO	NO	YES	YES	YES
Varvarin, Mascara, Bedem - fort		4		YES	NO	NO	YES	YES	YES
Varvarin, Mascara,		5		NO	NO	YES	NO	YES	NO

Cultural Heritage Item	Section	Appendix 5, Item ID	Site Type	Sensitivity	Replicable	Critical	50m	500m	Location Condition
Necropolis in road profile									
Varvarin, Bosniaks, Ornice		6		NO	NO	NO	NO	YES	NO
Varvarin, Mascara, Ledine		7		YES	NO	NO	NO	YES	YES
Varvarin, Mascara, Selište		8		NO	NO	NO	NO	YES	NO
Varvarin, Šanac, Kolarac		11		YES	NO	YES	YES	YES	YES
Varvarin, Bošnjane, Ornice		15		NO	NO	NO	NO	YES	NO
Krusevac, Makresane, Jazbine		16		YES	NO	YES	YES	YES	YES
Kruševac, Makrešane, Sastavci		17		YES	NO	NO	YES	YES	YES
Krusevac, Makresane, Cair		18		NO	NO	NO	NO	YES	NO
Krusevac, Makresane, Old Cemetery		20		NO	NO	NO	NO	YES	NO
Krusevac, Lazarica, Buzdovani		23		YES	NO	YES	YES	YES	YES
Kruševac, Lazarica, Jasički put		24		YES	NO	YES	YES	YES	YES
Krusevac, Citluk, Konopljara		27		YES	NO	YES	YES	YES	YES
Krusevac, Kukljin, Bogomoljiste		31		YES	NO	YES	YES	YES	YES

Cultural Heritage Item	Section	Appendix 5, Item ID	Site Type	Sensitivity	Replicable	Critical	50m	500m	Location Condition
Krusevac, Jasika, Latin Bar		32		NO	NO	NO	NO	YES	NO
Kruševac, Lazarica, Odžinac -Miljkovička		33		YES	NO	YES	YES	YES	YES
Kruševac, Jasika, Krstići		34		NO	NO	NO	NO	YES	NO
Trstenik, Osonica, Nemrak	2	43		YES	NO	YES	YES	YES	YES
Trstenik, Grabovac, Turkish Cemetery		44		NO	NO	NO	NO	YES	NO
Trstenik, VelikaDrenova, Toponicka River		56		NO	NO	NO	NO	YES	NO
Trstenik, Osaonica, Turkish Cemetery		64		NO	NO	NO	NO	YES	NO
Trstenik, Grabovac, BrodnaMoravi		65		NO	NO	NO	NO	YES	NO
Vrnjacka Banja, Rudjinci, Carp Code		71		NO	NO	NO	NO	YES	NO
Vrnjacka Banja, Vrnjci, Draskovic		74		NO	NO	YES	NO	YES	NO
Vrnjacka Banja, Vrnjci, Duboki Potok		77		YES	NO	YES	NO	YES	YES
Vrnjacka Banja, Vrnjci, Martacici		78		YES	NO	YES	YES	YES	YES
Vrnjacka Banja, Vrnjci, SkelaCrnoglavaca		79		YES	NO	YES	YES	YES	YES

Cultural Heritage Item	Section	Appendix 5, Item ID	Site Type	Sensitivity	Replicable	Critical	50m	500m	Location Condition
Vrnjacka Banja, Vrnjci, Grkkara-Trnara		80		NO	NO	NO	NO	YES	NO
Vrnjacka Banja, Novo Selo, Grabovi		82		YES	NO	YES	YES	YES	NO
Vrnjacka Banja, Novo Selo, Veselinovici		83		YES	NO	YES	YES	YES	YES
Vrnjacka Banja, Novo Selo, Stevanovici		86		YES	NO	YES	YES	YES	YES
Vrnjacka Banja, Novo Selo, Miodragovici		87		YES	NO	NO	NO	YES	YES
Vrnjacka Banja, Novo Selo, Šibalići		134		YES	NO	YES	YES	YES	YES
Vrnjacka Banja, Gracac, Calijja		90		NO	NO	NO	NO	YES	NO
Vrnjacka Banja, Podunavci, Rakovica		93		YES	NO	NO	NO	YES	YES
Vrnjacka Banja, Podunavci, Usinka		94		YES	NO	NO	NO	YES	YES
Vrnjacka Banja, Podunavci, Bare		95		YES	NO	NO	NO	YES	YES
Vrnjacka Banja, Vranesi, Trnovaca		96		YES	NO	NO	NO	YES	YES
Kraljevo, Ratina, Divlje polje		98		YES	NO	YES	YES	YES	YES
Kraljevo, Miločaj, Gorelo polje		108		NO	NO	NO	NO	YES	NO

Cultural Heritage Item	Section	Appendix 5, Item ID	Site Type	Sensitivity	Replicable	Critical	50m	500m	Location Condition
Kraljevo, Mrsać, Ade, necropolis		109		YES	NO	YES	YES	YES	NO
Kraljevo, Vrba, Grckara necropolis		135		YES	NO	YES	NO	YES	YES
Staro Groblje, Bela Voda, Necropolis		137		YES	NO	YES	YES	YES	YES
Čačak, Katrga, Grobljuša	3	113		YES	NO	YES	YES	YES	NO
Cacak, DonjaGorevnica, Crkvina		120		NO	NO	NO	NO	YES	NO
Čačak, Mojsinje, Bent, Lugovi		123		YES	NO	YES	NO	YES	YES
Cacak, Baluga, Rainci, Old Cemetery		129		NO	NO	NO	NO	YES	NO
Čačak, Baluga, Necropolis		131		YES	NO	YES	NO	YES	YES
Cacak, Mrcajevci, Crkvine		136		YES	NO	YES	YES	YES	YES

6 Consultations Conducted

Several consultation sessions were conducted with local communities and relevant governmental authorities during the ESIA process and as part of the May 2020 ESIA package, including discussions on cultural heritage features and potential impacts. The consultations were held by the local social team with the supervision of 2U1K. This section provides a summary of the feedback obtained through these consultations, and provides information on key concerns, questions raised, and how the mitigation and management measures identified will address them.

In 2019, 22 key informant interviews (KIIs) were held with relevant local leaders, local government officers, experts and local Non-Governmental Organizations (NGOs) for the ESIA Report.

During the pre-construction phase the Institutes for Protection of Cultural Monuments (IPCMs) were consulted to obtain the necessary permits needed to start the construction phase. As reported in the EIA, IPCMs approved the Project on 28th February 2019, under the condition that appropriate mitigation measures (described in section 5) are implemented for cultural heritage elements that may be directly or indirectly impacted by the motorway.

Table 9: List of authorities interviewed for CH related issues in March 2019

Authority	Function
The Ministry of Environmental Protection	National authority responsible for environmental protection systems including national parks, and implementation of the Convention on public participation, access to information and the right to legal protection in the field of environment.
Institute for Nature Conservation of Serbia (issues location conditions);	Determination of protected biodiversity areas and the preparation of protection procedures.
Institute of Transportation CIP Ltd (environmental impact assessment consultant);	Company registered with the Serbian Business Registers Agency mainly for works for engineering services and technical consulting.
The Highway Institute JSC (environmental impact assessment consultant);	Engineering and technical consulting company and responsible party for preparation of EIA Report for Phase-3.
Public Enterprise Roads of Serbia (motorway operator); and	Responsible party for maintenance and preservation, exploitation, construction, reconstruction, organization and control of toll collection, development and management of I and II category state roads in the Republic of Serbia.
Jaroslav Černi Water Institute (river regulation designer).	Responsible party to conduct Hydro technical study corridor of the E-761, also known as the Project.

The interview with the Institute for Nature Conservation of Serbia revealed that a monumental tree, named as Stabla Čačka, is located near the route of the Project. Even if there is no legal obligation to protect the tree, the Institute recommended the Project to implement adequate protection measures since it has a cultural importance for the locals. The two consultancies involved in the national EIA studies for the Project, CIP and the Highways Institute, were consulted regarding their previous findings on cultural heritage assets in the project area, and highlighted the importance of protecting cemeteries and archaeological located along the route.

Additionally, the Project has been in communication with the IPCM of Kraljevo. The Institute has established the preconditions for cultural heritage protection (as listed in section 5 of this report) at specific locations and listed the management and mitigation measures to be implemented in letters sent to the Project. These measures have been incorporated into the mitigation and management measures identified in this report.

During the social baseline data gathering studies from 10 September to 18 October 2019, nine NGOs² were consulted. Based on the ESIA Report, these discussions did not cover any CH related issues. The additional consultations under development for the ICP Report has taken this into account so to obtain local communities' views on cultural heritage impacts, particularly the indirect impacts.

During the ESIA process, seven Focus Group Discussions (FGDs) with 66 participants were conducted in the following municipalities: Preljina, Vrnjačka Banja (two FGDs), Adrani, Baluga, Maskare, and Kruševac. Focus Groups were aimed at both the general population and specific groups such as Roma women, young women, elderly women and unemployed women. Such vulnerable groups that should be taken into consideration in organising consultation activities were identified based on discussions with the heads of villages, in order to directly obtain their inputs on Project impacts particularly as the household surveys were carried out with the predominantly male heads of households.

During the FGDs, the participants initially indicated a low level of understanding of the Project's potential impacts on cultural heritage. After further information was provided on this topic, the respondents expressed no concerns regarding cultural heritage.

2U1K carried out several consultations within the framework of the ESIA. 1563 household surveys, 48 community level surveys and 110 business surveys. In the framework of the household and community level surveys which included questions concerning cultural heritage features in nearby areas, the following relevant information emerged:

- in the Vrnjci village, an interview revealed that inhabitants had discovered a Roman road during the construction of a house, thus stressing out the potential of CH finds in the area;
- in the Municipality of Krusevac, the potential CH impact on the Maskare settlement;
- in the Municipality of Trestenik, the potential CH impact on the Seliste settlement; and
- in the Municipality of Cacak, the potential disturbance related to access to the Baluga cemetery.

Lastly, in December 2020 and January 2021 an additional round of consultations was carried out as part of the Informed Consultation Plan study. While these consultations focused on discussion of impacts of operational noise and river regulation works, cultural heritage was brought up as an additional topic, and the local community members in attendance did not highlight specific concerns related to cultural heritage.

² (i) NGO Treehouse; (ii) Eurokontakt; (iii) Association of Professional Beekeepers; (iv) White Tree Organization; (v) NGO EKO IBAR; (vi) NGO Morava Fishing Association, former president of the municipality; (vii) West Morava Water Sports Association and Ecology Society; (viii) Women Entrepreneur Association; and (ix) Kruševac's Educational Center.

7 Conclusions

In line with IFC PSs, the Morava Corridor Motorway Project undertook a Cultural Heritage Impact Assessment study to identify, manage and undertake mitigation actions on any CH items present in Project's Aol and its vicinity.

While a total of 245 cultural heritage sites have been identified for the purpose of this CHIA, only 61 are located in the Aol, corresponding to the 500m strip from the roadway, its associated facilities and river regulation works.

Specifically,

- 61 cultural heritage sites are located within the Aol of which 52 are archaeological sites, 5 cultural heritage buildings, 2 registered immovable cultural sites, and 2 monumental trees;
- Out of the 61, 22 archaeological sites fall within the 50m strip and are considered to be potentially directly impacted; and
- 245 cultural heritage sites exist within the Aol and its vicinity (60 for Section 1, 151 for Section 2, and 34 for Section 3).

All CH sites are listed and categorised in the Appendices and numerically labelled to allow easy identification on the updated Cultural Heritage map (Appendix 5). This CHIA identifies management and mitigation measures in line with national requirements and IFC PSs. Section 5 details the series of specific condition locations as set out by the relevant authority (IPCM).

Site surveys are planned for the 22 archaeological sites located within the 50m area, the impact assessment will be updated and mitigation measures defined based on the surveys' findings.

Disturbance for cultural heritage features during construction will be limited to sites that cannot be avoided. These sites will be mitigated and managed in accordance with the CHMP, in compliance with the relevant laws and protocols, and in coordination with local authorities and in consultation with local stakeholders. These measures include implementation of the chance find procedure, on which all workers will be trained throughout the construction phase, as well as ongoing archaeological monitoring for specific sites identified by the relevant authority. Such measures will allow for sufficient management and mitigation of residual impacts during construction. The CHMP will ensure that any potential disturbance due to construction, operations and maintenance activities is managed.

Cultural heritage aspects were addressed during ESIA consultations and touched as an additional topic of ICP consultations of December 2020 and January 2021. No additional concerns or CH items have been identified during these consultations.

Appendix 1 List of Archaeological Sites

Appendix 1 reports the whole of archaeological sites mapped in Project's Aol and in its proximity. Each item location is specified as well as sensitivity defined as the sensitivity in relation to legal constraints set by relevant authorities, location conditions and item's importance to the population. Items classified as sensitive are highlighted in yellow.

ID	Section	Name	500m strip	50m strip	Sensitivity
1	1	Cicevac, Pojate, Staro selo	YES	YES	YES
2	1	Cicevac, Stalac, Ukosa,	NO	NO	NO
3	1	Cicevac, Radosevac, Cerje	NO	NO	NO
4	1	Varvarin, Mascara, Bedem - fort	YES	YES	YES
5	1	Varvarin, Mascara, Necropolis in road profile	YES	NO	NO
6	1	Varvarin, Bosniaks, Ornice	YES	NO	NO
7	1	Varvarin, Mascara, Ledine	YES	NO	YES
8	1	Varvarin, Mascara, Selište	YES	NO	NO
9	1	Varvarin, Mascara, Gradine	NO	NO	YES
10	1	Varvarin, Barbarian Village, Guy	NO	NO	NO
11	1	Varvarin, Šanac, Kolarac	YES	YES	YES
12	1	Varvarin, Bošnjane, Cernjak	NO	NO	NO
13	1	Varvarin, Bošnjane, Slatina	NO	NO	NO
14	1	Varvarin, Bošnjane, Gaj	NO	NO	NO
15	1	Varvarin, Bošnjane, Ornice	YES	NO	NO
16	1	Krusevac, Makresane, Jazbine	YES	YES	YES
17	1	Kruševac, Makrešane, Sastavci	YES	YES	YES
18	1	Krusevac, Makresane, Cair	YES	NO	NO
19	1	Krusevac, Makresane, Tepelija	NO	NO	NO

ID	Section	Name	500m strip	50m strip	Sensitivity
20	1	Krusevac, Makresane, Old Cemetery	YES	NO	NO
21	1	Krusevac, Makresane, Long field	NO	NO	NO
22	1	Kruševac, Makrešane, Reka	NO	NO	NO
23	1	Krusevac, Lazarica, Buzdovani	YES	YES	YES
24	1	Kruševac, Lazarica, Jasički put	YES	YES	YES
25	1	Krusevac, Dedina, Turkish Cemetery	NO	NO	NO
26	1	Krusevac, Dedina, Turkish Cemetery	NO	NO	NO
27	1	Krusevac, Citluk, Konopljara	YES	YES	YES
28	1	Krusevac, Bela Voda, Kod česme	NO	NO	NO
29	1	Krusevac, Kukljin, Dinina Djula	NO	NO	NO
30	1	Krusevac, Bela Voda, Bunjiste	NO	NO	NO
31	1	Krusevac, Kukljin, Bogomoljiste	YES	YES	YES
32	1	Krusevac, Jasika, Latin Bar	YES	NO	NO
33	1	Kruševac, Lazarica, Odžinac -Miljkovička	YES	YES	YES
34	1	Kruševac, Jasika, Krstići	YES	NO	NO
35	1	Krusevac, Globoder, Seliste	NO	NO	NO
36	1	Krusevac, Mackovac, Ivlje	NO	NO	NO
37	1	Krusevac, Globoder, Ratkovac	NO	NO	NO
38	1	Krusevac, Globoder, Božinovo brdo	NO	NO	NO
39	1	Krusevac, Globoder, Staro selo	NO	NO	NO
40	1	Krusevac, Mackovac, Grobljanski brook	NO	NO	NO
41	1	Krusevac, Mackovac, Crkvina	NO	NO	NO
42	1	Kruševac, Mackovac, Cemetery	NO	NO	NO

ID	Section	Name	500m strip	50m strip	Sensitivity
43	2	Trstenik, Osonica, Nemrak	YES	YES	YES
44	2	Trstenik, Grabovac, Turkish Cemetery	YES	NO	NO
45	2	Trstenik, Trstenik, Stražba	NO	NO	NO
46	2	Trstenik, Počekovina, Grabak	NO	NO	NO
47	2	Trstenik, Počekovina, Selište	NO	NO	NO
48	2	Trstenik, Počekovina, Staro selo	NO	NO	NO
49	2	Trstenik, Počekovina, Tunnel Cemetery	NO	NO	NO
50	2	Trstenik, Stari Trstenik, Trnovaca	NO	NO	NO
51	2	Trstenik, Stari Trstenik, Ključ	NO	NO	NO
52	2	Trstenik, Stopanja, off the coast of West Morava	NO	NO	NO
53	2	Trstenik, Stopanja, stoves on the Savic estate	NO	NO	NO
54	2	Trstenik, Odzaci, Cara Lazar Cellars	NO	NO	NO
55	2	Trstenik, Medveđa, Savran mala,	NO	NO	NO
56	2	Trstenik, Velika Drenova, Toponicka River	YES	NO	NO
57	2	Trstenik, Velika Drenova, Caves	NO	NO	NO
58	2	Trstenik, Selište, Panjak	NO	NO	NO
59	2	Trstenik, Selište, Ključić	NO	NO	NO
60	2	Trstenik, Bogdanje, Djurovaca	NO	NO	NO
61	2	Trstenik, Lozno, Turkish Cemetery	NO	NO	NO
62	2	Trstenik, Osaonica, Petkovic Church	NO	NO	NO
63	2	Trstenik, Stari Trstenik, Church	NO	NO	NO
64	2	Trstenik, Osaonica, Turkish Cemetery	YES	NO	NO

ID	Section	Name	500m strip	50m strip	Sensitivity
65	2	Trstenik, Grabovac, Brod na Moravi	YES	NO	NO
66	2	Vrnjacka Banja, Rudjinci, Blagojevici	NO	NO	NO
67	2	Vrnjacka Banja, Rudjinci, Karan's Breg	NO	NO	NO
68	2	Vrnjacka Banja, Rudjinci, St. Luke's Church	NO	NO	NO
69	2	Vrnjacka Banja, Rudjinci, Church in Radenkovi	NO	NO	NO
70	2	Vrnjacka Banja, Rudjinci, Podine	NO	NO	NO
71	2	Vrnjacka Banja, Rudjinci, Carp Code	YES	NO	NO
72	2	Vrnjacka Banja, Rudjinci, Magdin lug	NO	NO	NO
73	2	Vrnjacka Banja, Rudjinci, Lazic	NO	NO	NO
74	2	Vrnjacka Banja, Vrnjci, Draskovic	YES	NO	NO
75	2	Vrnjacka Banja, Vrnjci, Kostovo brdo	NO	NO	NO
76	2	Vrnjacka Banja, Vrnjci, Vitojevic Springs	NO	NO	NO
77	2	Vrnjacka Banja, Vrnjci, Duboki Potok	YES	NO	YES
78	2	Vrnjacka Banja, Vrnjci, Martacici	YES	YES	YES
79	2	Vrnjacka Banja, Vrnjci, Skela Crnoglavaca	YES	YES	YES
80	2	Vrnjacka Banja, Vrnjci, Grkkara-Trnara	YES	NO	NO
81	2	Vrnjacka Banja, Novo Selo, Sibenik houses	NO	NO	NO
82	2	Vrnjacka Banja, Novo Selo, Grabovi	YES	YES	YES
83	2	Vrnjacka Banja, Novo Selo, Veselinovici	YES	YES	YES
84	2	Vrnjacka Banja, Novo Selo, Duboki brook	NO	NO	NO
85	2	Vrnjacka Banja, Novo Selo, Zajecevac	NO	NO	NO
86	2	Vrnjacka Banja, Novo Selo, Stevanovici	YES	YES	YES

ID	Section	Name	500m strip	50m strip	Sensitivity
87	2	Vrnjacka Banja, Novo Selo, Miodragovici	YES	NO	YES
88	2	Vrnjacka Banja, Gracac, Sveta Petka	NO	NO	NO
89	2	Vrnjacka Banja, Gracac, Turkish Cemetery	NO	NO	NO
90	2	Vrnjacka Banja, Gracac, Calija	YES	NO	NO
91	2	Vrnjacka Banja, Gracac, Kenja dishes	NO	NO	NO
92	2	Vrnjacka Banja, Podunavci, Cemetery	NO	NO	NO
93	2	Vrnjacka Banja, Podunavci, Rakovica	YES	NO	YES
94	2	Vrnjacka Banja, Podunavci, Usinka	YES	NO	YES
95	2	Vrnjacka Banja, Podunavci, Bare	YES	NO	YES
96	2	Vrnjacka Banja, Vranesi, Trnovaca	YES	NO	YES
97	2	Kraljevo, Vrba, Donje Polje	NO	NO	NO
98	2	Kraljevo, Ratina, Divlje polje	YES	YES	YES
99	2	Kraljevo, Ratina, Roman Cemetery	NO	NO	NO
100	2	Kraljevo, Ratina, Turkish Cemetery	NO	NO	NO
101	2	Kraljevo, Ratina, Crkvina	NO	NO	NO
102	2	Kraljevo, Ratina, Staro selo	NO	NO	NO
103	2	Kraljevo, Ratina, Old Cemetery- Dumbar	NO	NO	NO
104	2	Kraljevo, Ratina, Djurovac Church	NO	NO	NO
105	2	Kraljevo, Sijaće Polje, Mosque	NO	NO	NO
106	2	Kraljevo, Sirča, Roman Cemetery	NO	NO	NO
107	2	Kraljevo, Miločaj, School code	NO	NO	NO
108	2	Kraljevo, Miločaj, Gorelo polje	YES	NO	NO

ID	Section	Name	500m strip	50m strip	Sensitivity
109	2	Kraljevo, Mrsać, Ade, necropolis	YES	YES	YES
110	2	Kraljevo, Eyebrow, cemetery	NO	NO	NO
111	3	Kraljevo, Miločaj, Velika gradina	NO	NO	NO
112	3	Cacak, Katrga, Giant Cemetery	NO	NO	NO
113	3	Čačak, Katrga, Grobljuša	YES	YES	YES
114	3	Čačak, Mršinci, Crkvište	NO	NO	NO
115	3	Čačak, Goričani, Crkvina	NO	NO	NO
116	3	Cacak, Kukic, Turkish Cemetery	NO	NO	NO
117	3	Čačak, Mrčajevci, Grdeška bara	NO	NO	NO
118	3	Čačak, Mrčajevci, Livade	NO	NO	NO
119	3	Cacak, Mrcajevci, Gušavac, necropolis	NO	NO	NO
120	3	Cacak, Donja Gorevnica, Crkvina	YES	NO	NO
121	3	Cacak, Donja Gorevnica, Giant Cemetery	NO	NO	NO
122	3	Čačak, Donja Gorevnica, Crkvine	NO	NO	NO
123	3	Čačak, Mojsinje, Bent, Lugovi	YES	NO	YES
124	3	Čačak, Zablaće, Komadinići	NO	NO	NO
125	3	Čačak, Vapa, Vojinovića Brdo	NO	NO	NO
126	3	Čačak, Vapa, Crkvina	NO	NO	NO
127	3	Cacak, Baluga (Trnavska), Makva	NO	NO	NO
128	3	Cacak, Baluga, The Vulicevic Estate	NO	NO	NO
129	3	Cacak, Baluga, Rainci, Old Cemetery	YES	NO	NO
130	3	Cacak, Preljina, Estate of Ban Sovic, necropolis	NO	NO	NO

ID	Section	Name	500m strip	50m strip	Sensitivity
131	3	Čačak, Baluga, Necropolis	YES	NO	YES
132	3	Cacak, Konjevic, Greek Cemetery	NO	NO	NO
133	3	Čačak, Ljubić, Mutaovina	NO	NO	NO
134	2	Vrnjacka Banja, Novo Selo, Šibalići	YES	YES	YES
135	2	Kraljevo, Vrba, Grckara necropolis	YES	NO	YES
136	3	Cacak, Mrcajevci, Crkvine	YES	YES	YES
137	2	Staro Groblje, Bela Voda, Necropolis	YES	YES	YES

Appendix 2 List of CH buildings

Appendix 2 reports the whole of CH buildings mapped in Project's Aol and in its proximity. Each item location is specified as well as sensitivity defined as the sensitivity in relation to legal constraints set by relevant authorities, location conditions and item's importance to the population. Items classified as sensitive are highlighted in yellow.

ID	Section	Name	500m strip	50m strip	Sensitivity
1	1	Varvarin, Bosniak, Church of St.Petke,	NO	NO	YES
2	1	Varvarin, Bošnjane, Zoran Jankovic's house,	NO	NO	NO
3	1	Varvarin, Mascara, Milan Savic's house,	NO	NO	NO
4	1	Varvarin, Mascara, Mitic House,	NO	NO	NO
5	1	Krusevac, Dedina, school	NO	NO	NO
6	1	Krusevac, Citluk, Miladin Kitanovic House	YES	NO	NO
7	1	Krusevac, Citluk, Nikola Ciric's house	YES	NO	NO
8	1	Krusevac, Lazarica, National Construction Facility	NO	NO	NO
9	1	Krusevac, Pepeljevac, Ljubodraga Egeric House	NO	NO	NO
10	2	Trstenik, Bresno Polje, cemetery	NO	NO	NO
11	2	Trstenik, Bresno Polje, school building	NO	NO	NO
12	2	Trstenik, Bresno Polje, house of Ristic	NO	NO	NO
13	2	Trstenik, Stopanja, Mirko Radovanovic's house,	NO	NO	NO
14	2	Trstenik, Stopanja, village cemetery	NO	NO	NO
15	2	Trstenik, Stopanja, school building	NO	NO	NO
16	2	Trstenik, Stopanja, house near school in Stopanja	NO	NO	NO
17	2	Trstenik, Stopanja, Ranka Ristic House	NO	NO	NO
18	2	Trstenik, Stari Trstenik, cemetery	NO	NO	NO

ID	Section	Name	500m strip	50m strip	Sensitivity
19	2	Trstenik, Stari Trstenik, house of Milan Ristic	NO	NO	NO
20	2	Trstenik, Stari Trstenik, Pavle Bogicevic House	NO	NO	NO
21	2	Trstenik, Stari Trstenik, house of Rada Glidzic	NO	NO	NO
22	2	Trstenik, Stari Trstenik, Milosije Ilic House	NO	NO	NO
23	2	Trstenik, Stari Trstenik, school building	NO	NO	NO
24	2	Trstenik, Odzaci, Milos Batoćanin House	NO	NO	NO
25	2	Trstenik, Trstenik, Milka Karavesovic House	NO	NO	NO
26	2	Trstenik, Osaonica, school building	NO	NO	NO
27	2	Trstenik, Medvedja, Isidore Andrejić's house	NO	NO	NO
28	2	Trstenik, Medvedja, house of Avram Zivkovic	NO	NO	NO
29	2	Trstenik, Medvedja, Dragan Jovanovic's house	NO	NO	NO
30	2	Trstenik, Medvedja, Milan Janosevic's house	NO	NO	NO
31	2	Trstenik, Medvedja, house of Jovan Karamarkovic	NO	NO	NO
32	2	Trstenik, Medvedja, Radomir Raskovic's house	NO	NO	NO
33	2	Trstenik, Medvedja, Dragan Sremac's house	YES	NO	NO
34	2	Trstenik, Medvedja, house church of Sv. Nicholas	NO	NO	NO
35	2	Trstenik, Medvedja, school building	YES	NO	NO
36	2	Trstenik, Medvedja, house of priest Bradic	NO	NO	NO
37	2	Trstenik, Medvedja, Miodrag Toplicic House	NO	NO	NO
38	2	Trstenik, Medvedja, Milan Bradic's house	NO	NO	NO
39	2	Trstenik, Medveđa, Vladislav Vukomirović House	NO	NO	NO

ID	Section	Name	500m strip	50m strip	Sensitivity
40	2	Trstenik, Medveđa, Radomir Vukomirovoć House	NO	NO	NO
41	2	Trstenik, Medvedja, house of the Katic family	NO	NO	NO
42	2	Trstenik, Medveđa, house of the Radosavljevic family	NO	NO	NO
43	2	Trstenik, Medvedja, Milen Nauparac's house	NO	NO	NO
44	2	Trstenik, Medvedja, house in Medvedja	NO	NO	NO
45	2	Trstenik, Velika Drenova, house of Vasily Kostic	NO	NO	NO
46	2	Trstenik, Velika Drenova, the house of Zorica Nedeljkočić and Zvonko Puniševac	NO	NO	NO
47	2	Trstenik, Velika Drenova, Church of the Holy Ascension	NO	NO	NO
48	2	Trstenik, Velika Drenova, Church of St. Elijah	NO	NO	NO
49	2	Trstenik, Velika Drenova, school building	NO	NO	NO
50	2	Trstenik, Velika Drenova, house of the Jačović family	NO	NO	NO
51	2	Trstenik, Velika Drenova, house of Dzekic family (Cosic)	NO	NO	NO
52	2	Trstenik, Velika Drenova, Health Center	NO	NO	NO
53	2	Trstenik, Velika Drenova, house of the Đulaković family	NO	NO	NO
54	2	Trstenik, Velika Drenova, Library	NO	NO	NO
55	2	Trstenik, Velika Drenova, Spasojevic House	NO	NO	NO
56	2	Trstenik, Selište, house of Milen Celicanin	NO	NO	NO
57	2	Trstenik, Selište, Miloja Gasic's house	NO	NO	NO
58	2	Trstenik, Selište, school building	NO	NO	NO

ID	Section	Name	500m strip	50m strip	Sensitivity
59	2	Trstenik, Seliste, Dragutin Stanojlovic House	NO	NO	NO
60	2	Trstenik, Selište, house of Milos Stanojlovic	NO	NO	NO
61	2	Trstenik, Bogdanje, Cedomir Dimitrijevic's house	NO	NO	NO
62	2	Trstenik, Bogdanje, house of Mico Stojanovic	NO	NO	NO
63	2	Trstenik, Bogdanje, Vukoman Stojanović House	NO	NO	NO
64	2	Trstenik, Počekovina, train station building	NO	NO	NO
65	2	Trstenik, Počekovina, house of the Markovic family	NO	NO	NO
66	2	Kraljevo, Mrsać, Church of St. Peter and Paul	NO	NO	NO
67	3	Cacak, Sokolici, Radomir Lukovic's house	NO	NO	NO
68	3	Čačak, Mrčajevci, Church of Sv. Peter and Paul	NO	NO	NO
69	3	Cacak, Mrcajevci, village cemetery	NO	NO	NO
70	3	Cacak, Mrcajevci, Tosic House	NO	NO	NO
71	3	Cacak, Goricani, Dejan Cvetkovic's Chardak	NO	NO	NO
72	3	Cacak, Zablace, Church of Sv. Archangel Gabriel	NO	NO	NO
73	3	Cacak, Preljina, Church of Sv. Joachim and Anna	YES	NO	YES

Appendix 3 List of Registered Immovable Cultural Sites

Appendix 3 reports the whole of registered immovable cultural sites mapped in Project's Aol and in its proximity. Each item location is specified as well as the reference decision protecting the site and item's sensitivity defined as the sensitivity in relation to legal constraints set by relevant authorities, location conditions and item's importance to the population. Items classified as sensitive are highlighted in yellow.

ID	Section	Settlement	Decision	500m strip	50 m strip	Sensitivity
1	1	VARVARIN VILLAGE, Place of the Varvarin Battle including the Monument dedicated to the Count Oruk	Decision on Determining the place of the Varvarin Battle with the Monument to Count Oruk No. 633-2231/97-028 as of 18 June 1997, issued by the Government of the Republic of Serbia ("RS Official Gazette" No.27 / 97)	NO	NO	NO
2	1	VARVARIN VILLAGE, Prince Mileta's Watermill	Decision on Declaration of Prince Mileta's Watermill in the village of Varvarin as a cultural property - Cultural Monument No. 633-1 / 92-02 as of 18 December 1992, issued by the Municipal Assembly of the Municipality of Varvarin)	NO	NO	NO
3	1	STALAC, ruins of the town of Stalac (medieval town of Stalac)	Decision on the State protection of the ruins of the town of Stalac No. 317/48 as of March 8, 1948, issued by the Institute for the Protection and Scientific Study of the Cultural Heritage of the PRS and the Decision on Designating the Immovable Cultural property of Exceptional and Great importance, by which the medieval town of Stalac was designated as an immovable cultural property - a cultural monument of great importance ("Official Gazette of FRS", No. 14/79)	NO	NO	NO
4	1	STEVANAC, St. Stephen's Church	Decision on Declaring St. Stephen's Church in Stevanac as the Cultural Monument No. 215/74 as of May 30, 1974, issued by the	NO	NO	NO

ID	Section	Settlement	Decision	500m strip	50 m strip	Sensitivity
			Institute for the Protection of Cultural Monuments in Kraljevo and the Decision on Designating the Immovable Cultural Property of Exceptional and Great importance by which the monasteries and churches of Mojsinje were declared as 0020 cultural property - a monument of culture of great importance ("Official Gazette of FRS", No. 28/83)			
5	1	JAKOVAC, St. Marko's Church	Decision on the Designation of St. Marko's Church in Jakovac No. 216/74 as of May 29, 1974, issued by the Institute for the Protection of Monuments of Culture in Kraljevo and the Decision on the Designation of Immovable Cultural Property of Extraordinary and Great Importance by which the monasteries and churches of Mojsinje were declared immovable cultural property - a cultural monument of great importance ("Official Gazette of FRS", No. 28/83)	NO	NO	NO
6	1	STALAC, St. Archangel's Church	Decision on Declaring the Church of St. Archangel in Stalac as cultural property - monument of culture No. 633-2/85-01 as of March 29, 1985, issued by the Municipal Assembly of Čičevac Municipality and Decision on the Designation of Immovable Cultural Property of Extraordinary and Great Importance by which the monasteries and churches of Mojsinje were declared the immovable cultural property-Cultural monument of great importance ("Official Gazette of SRS", No. 28/83)	NO	NO	NO
7	1	BRALJINA, Church of St. Nicholas	Decision on Declaring the Church of St. Nicholas in Braljina as cultural property - monument of culture No. 633-1 / 92-01 as of October 7, 1992, issued by the Municipal	NO	NO	NO

ID	Section	Settlement	Decision	500m strip	50 m strip	Sensitivity
			Council of the Municipality of Čičevac and Decision on the Designation of Immovable Cultural Property of Extraordinary and Great Importance by which the monasteries and churches of Mojsinje were declared the immovable cultural property-Cultural monument of great importance ("Official Gazette of FRS", No. 28/83)			
8	1	STALAC, Church of the Holy Spirit in the town of Stalac	Decision on Declaring the Church of the Holy Spirit in the town of Stalac as Cultural Property - Cultural Monument No. 633-3 / 92-01 as of December 16, 1992, issued by the Municipal Assembly of Čičevac Municipality and Decision on the Designation of Immovable Cultural Property of Extraordinary and Great Importance by which the monasteries and churches of Mojsinje were declared the immovable cultural property- Cultural monument of great importance ("Official Gazette of FRS", No. 28/83)	NO	NO	NO
9	2	KUKLJIN, upper watermill known as Radojicina and lower watermill known as Milenkovic Watermill (Moravka Watermills)	Decision on Declaring the Upper Radojicina and Lower Milenkovic Watermill in Kukljin as cultural property - Cultural Monuments No. 633-6 / 86 as of November 12, 1986, issued by the Municipal Assembly of Krusevac	NO	NO	NO
10	2	BELE VODE, Memorial complex in the village of Bela Voda	Decision on Declaring the monumental complex in the village of Bela Voda as a cultural property - cultural monument No. 633-3/93 as of September 22, 1993, issued by the Municipal Assembly of Krusevac (cemetery, fountain, church and Milunović's house)	NO	NO	NO

ID	Section	Settlement	Decision	500m strip	50 m strip	Sensitivity
11	2	Vrnjačka Banja, Vrnjci, Neolithic settlement LADARIŠTE	Decision on the Declaring the Neolithic settlement Ladarište as the archeological site No. 05-633-2231 / 97-030 as of June 18th 1997 issued by the Government of the Republic of Serbia ("RS Official Gazette", No. 27/97) (7494312, 4833492)	YES	NO	YES
12	2	TRSTENIK, old house in Trstenik – Katićs' house	Decision on the protection of the old house in Trstenik, at No. 1 Cara Lazara Street No. 249/50 as of March 10, 1950, issued by the Institute for Protection and Scientific study of the Cultural Heritage of the FRS and Decision on the Designation of Immovable Cultural Property of Extraordinary and Great Importance by which the Katićs' House was designated and declared as the immovable Cultural Property - Monument of Cultural Importance ("Official Gazette of FRS", No. 14/79)	YES	NO	YES
13	2	TRSTENIK, house of Milica Ivanović	Decision on Declaring the house of Milica Ivanović in Trstenik as cultural property – monument of culture no. 633-1/84-02 as of December 16 th 1985 issued by the Municipal Assembly of Trstenik Municipality	NO	NO	NO
14	2	TRSTENIK, house of Petar Milosavljevića and others (Ljubica, etc.)	Decision on Declaring the house of Petar Milosavljević and others in Trstenik as cultural property – monument of culture no. 630-5/90-03 as of February 19 th 1991 issued by the Municipal Assembly of Trstenik Municipality	NO	NO	NO
15	2	LJUBOSTINJ A, Ljubostinja Monastery	Decision on providing the state's protection no. 2276/48 as of December 22 nd 1948 issued by the Institute for Protection and Scientific Study of the Cultural Heritage of the FRS;	NO	NO	NO

ID	Section	Settlement	Decision	500m strip	50 m strip	Sensitivity
			Decision on protecting the site of Ljubostinja Monastery no. 354-102/910 as of 28/06/1991 issued by the Municipal Assembly of Trstenik Municipality, published in the Official Gazette of the Municipality of Trstenik no. 4. as of 28/06/1991 and the Decision the Designation of Immovable Cultural Property of Extraordinary and Great Importance by which the Ljubostinja monastery was designated and declared as the cultural property – monument of culture of exceptional importance ("Official Gazette of the FRS", no. 14/79)			
16	2	GRABOVAC, Jerinin grad near Trstenik	Decision on providing the state's protection to Jerinin grad near Trstenik no. 250/50 as of March 10 th 1950 issued by the Institute for Protection and Scientific Study of the Cultural Heritage of the FRS	NO	NO	NO
17	2	GORNJI RIBNIK, Church of Archangel Gabriel in Gornji Ribnik	Decision on Declaring the Church of Archangel Gabriel in Gornji Ribnik as cultural property - cultural monument no. 633-4/82-01 as of June 4, 1984 issued by the Municipal Assembly of Trstenik Municipality	NO	NO	NO
18	2	GRACAC, Church of St. Sava	Decision on Declaring the Church of St. Sava in Gracac as the monument of Culture No. 633-4703 / 99 as of January 25 th 2000 issued by the Government of the Republic of Serbia	NO	NO	NO
19	2	VRBA, Log Church in Vrba	Decision on Declaring the log church in Vrba as immovable cultural property – monument of culture no. 1064/48 as of June 29 th 1948 issued by the Institute for Protection and Scientific Study of the Cultural Heritage of the FRS	NO	NO	NO

ID	Section	Settlement	Decision	500m strip	50 m strip	Sensitivity
20	2	KRALJEVO, Gospodar Vasa's residence	Decision on providing the state's protection to the Gospodar Vasa's residence no. 65/50 as of March 2 nd 1950 issued by the Institute for Protection and Scientific Study of the Cultural Heritage of the FRS and the Decision on the Designation of Immovable Cultural Property of Extraordinary and Great Importance by which Gospodar Vasa's residence in Kraljevo was designated and declared as the immovable cultural property – monument of culture of great importance ("Official Gazette of the FRS", no.14/79)	NO	NO	NO
21	2	KRALJEVO, building of the IV kraljevački bataljon Primary School (building of the National Museum)	Decision on Declaring the building of the IV kraljevački bataljon Primary School at no. 1 Vojvode Stepe St. as immovable cultural property – monument of culture no. 208/71 as of June 1 st 1971 issued by the Insitute for Protection of the Monuments of Culture in Kraljevo and the Decision the Designation of Immovable Cultural Property of Extraordinary and Great Importance by which the building of the IV kraljevački bataljon Primary School in Kraljevo was designated and declared as the immovable cultural property – monument of culture of great importance ("Official Gazette of the FRS", no.14/79)	NO	NO	NO
22	2	KRALJEVO, Church of Holy Trinity (Svete Trojice)	Decision on Declaring the Church of Holy Trinity in Kraljevo as immovable cultural property – monument of culture no. 209/71 as of June 1 st 1971 issued by the Insitute for Protection of the Monuments of Culture in Kraljevo	NO	NO	NO
23	2	KRALJEVO, Old building located in the	Decision on Declaring the Old building located in the center of Kraljevo in Cara Dusana	NO	NO	NO

ID	Section	Settlement	Decision	500m strip	50 m strip	Sensitivity
		center of Kraljevo at 39 Cara Dusana Street (house of Zorka Adzic)	Street no. 39, which was built on the cadastral lot no.548 (formerly owned by Zorka Adžić from Kraljevo) as the immovable cultural property - the monument of culture No. 189/74 as of April 12, 1974, issued by the Institute for the Protection of Cultural Monuments of Kraljevo			
24	2	KRALJEVO, Švapčića house	Decision on Declaring the Švapčića house in Kraljevo as the immovable cultural property -monument of culture no. 515/76 of 31 December 1976 issued by the Institute for the Protection of the Cultural Monuments of Kraljevo and the Decision on Designating the protected area of the Švapčića House in Kraljevo ("Švapčića House in Kraljevo)" RS Gazette", No.4/09)	NO	NO	NO
25	2	KRALJEVO, Memorial Park	Decision on Declaring the Kraljevo Memorial Park as the immovable cultural property-cultural monument No. 633-1/84 as of June 1, 1984, issued by the Municipal Council of the Municipality of Kraljevo and the Decision on the Designation of Immovable Cultural Property of Extraordinary and Great Importance by which the Kraljevo Memorial Park was designated as an immovable cultural property-landmark of exceptional importance ("Official Gazette of the FRS", No. 28/83)	NO	NO	NO
26	2	KRALJEVO, Čaršija (Old town) with the square	Decision on Declaring the Čaršija with the square in Kraljevo as cultural property-spatial cultural and historical complex No. 06-67/90 of June 29, 1990, issued by the Municipal Council of the Municipality of Kraljevo	NO	NO	NO
27	2	KRALJEVO, Petrovics'	Decision on Declaring the Petrovics' House in Kraljevo	NO	NO	NO

ID	Section	Settlement	Decision	500m strip	50 m strip	Sensitivity
		House, 37 Cara Lazar Street	as the Cultural Monument No. 633-2231 /97-09 as of 18 June 1997, issued by the Government of the Republic of Serbia ("Official Gazette of the RS" ", No. 27/97)			
28	2	KRALJEVO, Božića house, at Tanaska Rajic St. No.12	Decision on Declaring the Božića house in Kraljevo as the Cultural Monument No. 633-2231/97-013 as of 18 June 1997 issued by the Government of the Republic of Serbia ("Official Gazette of the RS", No. 27/97)	NO	NO	NO
29	2	KRALJEVO, Markovica House, 7 Karadjordjeva Street	Decision on Declaring the Markovics' House in Kraljevo as the Cultural Monument No. 633-2231/97-017 as of 18 June 1997, issued by the Government of the Republic of Serbia ("RS Official Gazette", No. 27/97)	NO	NO	NO
30	2	KRALJEVO, Dr Đorđe Radić Agricultural School Complex in Kraljevo	Decision on Designating Dr Đorđe Radić Agricultural School Complex in Kraljevo as the Spatial Cultural and Historical Complex, issued by the Government of the Republic of Serbia, published in ("Official Gazette of the RS", no. 100/14)	NO	NO	NO
31	2	KRALJEVO, Novakovica House in Kraljevo	Decision on Declaring the House of Novakovic in Kraljevo as the monument of culture 05 No. 633- 12494/2015 as of November 28, 2015, issued by the Government of the Republic of Serbia, published in ("Official Gazette of RS", no. 97/15)	NO	NO	NO
32	3	CVETKE, Log Church in the village of Cvetke (Log church with cemetery)	Decision on Declaring the Log Church in the village of Cvetke as the immovable cultural property-cultural monument no. 240/49 as of February 10 th 1949 issued by the Institute for Protection and Scientific Study of the Cultural Heritage of the NRS	NO	NO	NO

ID	Section	Settlement	Decision	500m strip	50 m strip	Sensitivity
			and the Decision on the Designation of Immovable Cultural Property of Extraordinary and Great Importance by which the Log Church in the village of Cvetke (Log church with cemetery), was designated and declared as the immovable cultural property-monument of culture of great importance ("Official Gazette of the FRS", no.14/79)			
33	3	LJUBIĆ, the monument dedicated to Tanasko Rajić located on the Ljubić hill within the Ljubić-memorial complex	Decision on putting the monument to Tanasko Rajić on Ljubić hill under the state's protection No. 88 as of February 24, 1971 issued by the Institute for the Protection of Monuments of Culture of Kraljevo; and the Decision on the Designation of Immovable Cultural Property of Extraordinary and Great Importance by which the Ljubić Memorial Complex was designated and declared as an immovable cultural property-landmark of exceptional importance (Official Gazette of the FRS, No. 28/83) and the Decision on putting a part of the natural area, i.e. landscape of the village of Ljubic under protection as the designated spatial memorial monument of nature No. 633-1/72-03 as of November 20, 1973, issued by the Secretariat for Administrative and Legal Affairs of the Municipal Council of the Municipality of Čačak)	NO	NO	NO

Appendix 4 Monumental Trees

Appendix 4 reports the two monumental trees mapped in Project's AoI. Each item location is specified as well as sensitivity defined as the sensitivity in relation to legal constraints set by relevant authorities, location conditions and item's importance to the population. Items classified as sensitive are highlighted in yellow.

ID	Section	Tree	500m strip	50m strip	Sensitivity
1	2	Monumental Tree, Krusevac	YES	NO	NO
2	3	Stabla Čačka, Monumental Tree, Cacak	YES	NO	NO



Appendix 5 Project Layout, Updated CHIA Buffer Zone & Legend, and Archaeological Areas

Appendix 6 Methodology of Rescue Excavations in Serbia (as presented by Dr Aleksandar Bulatović)

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