



designer's electronic signature:	responsible person's electronic signature:
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Investitor: **Western Balkan Six Chamber Investment Forum**  
Piazza della Borsa nr. 14 34121 Trieste Italy

Object: **HIGH SCHOOL OF ELECTRICAL ENGINEERING "VASO ALIGRUDIĆ"**  
Podgorica Montenegro

Location: **Cadastral plot 1193 cadastral district Podgorica I**  
Municipality Podgorica

Type of technical documentation: **ADAPTATION PROJECT OF PARTS OF THE FACILITY**

Designer: **DeCom Montenegro I.l.c.**

Responsible person: **Goran Mijajlović, C.Eng.**

Main engineer: **Zagorka Božović Pejanović, spec.sci. arh.**

- 1 Investor's name
- 2 The name of the object
- 3 Construction site, planning document, urban plot, cadastral plot
- 4 Conceptual solution, conceptual project, main project, i.e. the project of the finished object project (if it is the cover page of the entire technical documentation)
- 5 The name of the company, legal entity, or entrepreneur who created the technical documentation
- 6 The name of the responsible person in the company, legal entity, that is, the name and surname of the entrepreneur
- 7 Name and surname of the main engineer.

## **1. ARCHITECTURE PROJECT:**

**PROJECT OF ADAPTATION OF PART OF THE BUILDING OF HIGH SCHOOL OF ELECTRICAL ENGINEERING  
"VASO ALIGRUDIĆ", cadastral plot 1193 cadastral district Podgorica I, Municipality of Podgorica**

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**ARCHITECTURE PROJECT:**

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## 2. TEXTUAL DOCUMENTATION

## 2.1. TECHNICAL REPORT

## **ARCHITECTURE PROJECT:**

### **PROJECT OF ADAPTATION OF PART OF THE BUILDING OF HIGH SCHOOL OF ELECTRICAL ENGINEERING "VASO ALIGRUDIĆ", cadastral plot 1193 cadastral district Podgorica I, Municipality of Podgorica**

#### EXISTING CONDITION

Based on Contract with the Investor no. RCF/MNE/NC/2023/003 dated 30.11.2023. and Project Task from 08.02.2024, the Project of adaptation of the mentioned building was done. The subject of Adaptation addressed in this project is a part of the Mechanical block (on the first floor) of the Vaso Aligrudić electrical school, located at Vasa Raičkovića Street 26 in Podgorica.

The building has ground floor + 1. The clear height of the floors is 3.25m. The total height of the building is 9.30m.

The location is accessed via city roads from all sides.

The building is constructed in a skeleton system with reinforced concrete beams and columns with walls made of "Siporeks blocks". The walls are 30 cm thick, finished with plaster and paint. The thickness of reinforced concrete slabs on the ground floor and the first floor is 20 cm. The roof covering is corrugated metal with a slope of approximately 20%.

On the ground floor, below the staircase, on the right side of the entrance, there is an electrical substation.

In the staircase hall, on the ground floor and on the first floor, there is a fire hydrant wall outlet.

Flooring in corridors and halls - marble floor tiles. Flooring in classrooms and common areas - parquet.

Flooring in wet rooms - ceramic tiles.

The subject of adaptation addressed in this project is a part of the Mechanical block (on the first floor) of the Vaso Aligrudić Electrical Engineering School, located at 26 Vasa Raičkovića Street in Podgorica. The building is constructed in a skeleton system of brick products, with ground floor + 1, and the clear height of the rooms is 3.25 meters.

On the ground floor, below the staircase, on the right side of the entrance, there is an electrical substation. In the staircase hall, on the first floor, there is also a fire hydrant, to the left of the glass wall (photo 1), through which one enters the hallway H, paved with stone slabs (photo 2), which are in good condition, and from which one can enter to the left and right into:

- T-shaped anteroom to the toilet with a built-in sink for hand washing (photo 3), leading to another anteroom T1 (photo 4), and from there to the male TM and female TŽ toilets (photo 5)
- classrooms M1 (photo 6), M2 (photo 7), M3 (photo 8), M4 (photo 9), M5 (photo 10), M6 (photo 11),
- tea kitchen K (photo 12), and multifunctional hall MPS (photo 13).



photo 1



photo 2



photo 3



photo 4



photo 7



photo 8



photo 9



photo 5



photo 6



photo 10



photo 11



photo 12



photo 13

By visiting the location, during which all details were coordinated with the final User, the Designer identified the need to intervene and adapt all the listed rooms, which are enumerated in the following tabular statement:

	room	flooring	area m <sup>2</sup>	perimeter m
H	hallway	stone tiles	49.63	45.00
T	toilet (handwashing)	ceramic tiles	3.80	7.80
T1	toalet	ceramic tiles	3.22	7.20
TM	toalet for man	ceramic tiles	1.53	5.20
TŽ	toalet for woman	ceramic tiles	1.53	5.20
M1	multifuncional cabinet	parquet	33.18	23.06
M2	multifuncional cabinet	parquet	47.93	28.06
M3	multifuncional cabinet	parquet	47.93	28.06
M4	multifuncional cabinet	parquet	47.93	28.06
M5	multifuncional cabinet	parquet	47.96	28.06
M6	multifuncional cabinet	parquet	22.40	19.20
MPS	multifuncional cabinet	parquet	66.22	34.86
K	multifuncional cabinet	parquet	10.00	13.00

**Total net area: m<sup>2</sup> 383.25**

# ARCHITECTURE PROJECT:

**PROJECT OF ADAPTATION OF PART OF THE BUILDING OF HIGH SCHOOL OF ELECTRICAL ENGINEERING "VASO ALIGRUDIĆ", cadastral plot 1193 cadastral district Podgorica I, Municipality of Podgorica**

## NEWLY DESIGNED CONDITION

The designer has noted that no interventions are required on the structure of the Mechanical block because the newly designed works do not affect the stability of the building or increase the load. However, it is necessary to design and execute new Mechanical, Electrical installations for weak and strong currents, Hydraulic installations, and apply applicable Fire Protection measures.

All installations are included and elaborated separately in each phase of the Adaptation Project.

The following tabular statement shows changes in floor treatment, by rooms:

	room	flooring	area m <sup>2</sup>	perimeter m
H	hallaway	stone tiles	49.63	45.00
T	toalet pranje ruku	ceramic tiles	3.80	7.80
T1	toalet predprostor	ceramic tiles	3.22	7.20
TM	toalet muški	ceramic tiles	1.53	5.20
TŽ	toalet ženski	ceramic tiles	1.53	5.20
M1	multifunkcionalni kabinet	PVC conductive antistatic	33.18	23.06
M2	multifunkcionalni kabinet	PVC conductive antistatic	47.93	28.06
M3	multifunkcionalni kabinet	PVC conductive antistatic	47.93	28.06
M4	multifunkcionalni kabinet	PVC conductive antistatic	47.93	28.06
M5	multifunkcionalni kabinet	PVC conductive antistatic	47.96	28.06
M6	multifunkcionalni kabinet	PVC conductive antistatic	22.40	19.20
MPS	multifunkcionalni kabinet	design panels LVT	66.22	34.86
K	multifunkcionalni kabinet	ceramic tiles	10.00	13.00

**Total net area: m<sup>2</sup> 383.25**

The Architectural Adaptation project includes:

- All demolitions listed in the Bill of Quantities, setting up containers on the construction site, and disposing of debris in the landfill,
- Demolition of the brick sink for handwashing in the anteroom of toilets T and T1 and replacement with appropriate sinks, changing toilet bowls in TM and TŽ, as well as replacing wall tiles (photo 1) and floor tiles (photo 2),
- Replacement of sinks and wall ceramic tiles in classrooms M2, M3, M4, M5, and the MPS hall (photo 3),
- Replacement of the sink in the tea kitchen K and installation of wall and floor tiles (photo 4)
- Replacement of existing parquet flooring in:
  - Classrooms M1, M2, M3, M4, M5, M6, with the installation of electroconductive antistatic vinyl flooring (photo 5),
  - MPS hall with the installation of high-hardness lamellar parquet type LVT (photo 6),
- Replacement of the glazed entrance wall and all internal doors (with and without transoms), doors made of aluminum profiles according to the Opening Scheme (internal doors), closing door openings with gypsum plasterboards (on substructure) between the MPS hall and the tea kitchen K,

- Making all necessary insulation and substrates for the mentioned floors,
- Preparation of substrate and painting works of all walls (RAL 9018) and ceilings (RAL 9016) with dispersion paint.

The Bill of Quantities, which describes in detail all the works and types of materials used, is an integral part of this Adaptation Project.



photo 1



photo 2



photo 3



photo 4



photo 5



photo 6



For people with disabilities, the Designer has planned an electric ramp within the staircase area, which is installed on the inner staircase handrail.

February, 2024

Architect  
Zagorka Božović Pejanović, spec.sci.arh.

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## **2.2. TECHNICAL REQUIREMENTS FOR WORK EXECUTION - GENERAL AND DESCRIPTION OF INDIVIDUAL WORKS**

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**ARCHITECTURE PROJECT:**

**PROJECT OF ADAPTATION OF PART OF THE BUILDING OF HIGH SCHOOL OF ELECTRICAL ENGINEERING "VASO ALIGRUDIĆ", cadastral plot 1193 cadastral district Podgorica I, Municipality of Podgorica**

**GENERAL TERMS**

All items listed in the Bill of Quantities and cost estimates imply the execution of each position unconditionally, professionally, accurately, and with quality, according to the current technical regulations and standards, and in all respects in accordance with approved drawings, technical description, and instructions from the designer, unless otherwise stipulated in the respective position.

All provisions of these general terms, as well as other general descriptions mentioned, are integral parts of the contract concluded between the Investor and the Contractor.

All works and materials specified in the descriptions of individual positions in the cost estimate must be covered by the offered prices of the contractor.

The agreed prices are the contractor's selling prices and they include all expenses for labor, materials with usual markups, external and internal transportation, possible scaffolding, water, lighting, operating materials, and energy for machines, utilities, social contributions, all state and municipal fees, contractor's profit, as well as all other expenses conditioned by existing regulations for forming the selling price of the construction product, including all expenses stemming from special working conditions envisaged by construction norms and conditions stated in the previous two paragraphs.

The Contractor has no right to request any additional payments on the offered and agreed prices, except if explicitly stated in a particular position that a certain specified work is paid separately and is not covered in another position. Additionally, no compensation or supplement to the agreed prices will be recognized for the increase in standardized values from the Average Construction Norms.

For all construction and construction-related works, the use of appropriate skilled labor and quality materials that comply with existing technical regulations, applicable standards, and descriptions of relevant positions in the cost estimate is required. For every material installed, the contractor must submit a certificate to the supervisory authority. In disputed cases regarding the quality of materials, samples will be submitted to the Materials Testing Institute, whose findings are authoritative for both the Investor and the Contractor. If the Contractor, despite the negative findings of the Materials Testing Institute, continues to install substandard material, the Investor/supervisory authority will order demolition, and all material damage from subsequent demolition will be at the expense of the contractor - without the right to claim or object to the demolition decision made by the Investor or the construction inspectorate.

All materials that the Investor's representative finds not compliant with the agreed cost estimate and prescribed quality must be immediately removed from the construction site by the Contractor, and the Investor/supervisory authority will suspend work if the Contractor attempts to use it.

For all construction and construction-related works, the use of appropriate skilled qualified labor, as prescribed for certain works in the average construction norms, is conditioned. The Contractor is obliged, upon the Investor's request, to remove unprofessional and unskilled workers from the construction site. Before commencing any work, the construction site manager is obliged to timely request necessary explanations of plans and information for all works not sufficiently defined in the project document from the Investor's representative.

If the Contractor, without consulting the Investor/supervisory authority, incorrectly executes certain works or executes them contrary to the instructions received via the construction logbook or contrary to the specified description, plans, and given details, no justification will be accepted. In such cases, regardless of the amount of work performed, the Contractor is obliged, at his own expense, to demolish and remove everything, and then re-execute it at his own expense as specified in the plans,

descriptions, and details, except if such changes are approved via the construction logbook by the Investor's representative/supervisory authority.

If the Contractor executes a task better and more expensive than the specified quality, he has no right to demand additional payment if he has done so on his own initiative without prior approval or instruction from the Investor's representative/supervisory authority via the construction logbook.

The Contractor must maintain the building and the entire construction site neatly and completely clean and dispose of debris in a 7m3 container daily, and upon completion of work, before handing over the facility, upon the User's request, the User will perform, at his own expense, thorough cleaning.

All specified finishing works are not paid separately because they must be covered by the contracted prices. Any damage that the Contractor may cause within the construction site or to neighboring buildings during the execution of works must be rectified and restored to its original condition at the Contractor's expense.

If the need arises for works that are not priced in the cost estimate, the Contractor is obliged to obtain approval from the Investor's representative for them, determine the price for them, and record all this in the construction logbook, according to the price list of all materials and labor, which must be attached to the bid.

For all waterproofing works, the Investor has the right to request from the Contractor a written Guarantee that the works will be durable and of good quality.

The Contractor is obliged to coordinate the work of subcontractors who independently perform certain types of work, so as not to cause harm to each other, and if this occurs, he is obliged to immediately regulate the removal and compensation for damages at the expense of the guilty party. Otherwise, the Contractor will bear the costs of rectifying such damages. This also applies to all disturbances and damages that would arise due to non-compliance with the agreed order and schedule of execution of certain works. The supervisory authority has the right to request that the Contractor submit samples for new materials, based on which he (the supervisory authority), in agreement with the Investor, will make a selection. Procurement of these samples is not paid separately.

The Contractor is obliged to comply with the project for organization and construction technology and the prescribed OSH measures in all respects.

Upon completion of work, the Contractor is obliged to submit to the Investor all certificates required by law and regulations during the technical inspection, and all expenses for obtaining this documentation are borne by the Contractor.

Upon completion of the job, the Contractor is obliged to submit to the Investor a certificate that he has paid for the water, electricity, and other fees incurred by the Contractor during the execution of works.

The Contractor will keep the construction book and construction logbook based on existing legal regulations, entering necessary data

## **DESCRIPTION OF INDIVIDUAL WORKS**

### **A.1 Preparatory Works - Dismantling and Demolition**

Preparatory works precede the execution works. It is essential to complete them comprehensively and swiftly to allow uninterrupted progress on the construction site. Therefore, demolition must be carefully planned and managed to ensure the safety of personnel and the environment.

Waste is deposited in a 7m3 container that is constantly placed on the construction site after inspection. All recyclable waste is sorted separately and transported to the appropriate and nearest landfill.

### **A.2 Masonry Works**

All usable material used for concrete casting of the slab broken due to the installation of new water and sewage pipes must meet the appropriate quality standards according to existing regulations in MEST and the Regulations on Technical Measures and Conditions for Concrete and Reinforced Concrete.

When casting a single concrete position, only one type of concrete should be used. The Contractor is obliged to submit concrete samples for testing according to the regulations on technical measures without additional charges.

1. Gravel must be river gravel, completely free from clay and silt, and have a particle size distribution without organic impurities. The quality of the aggregate must comply with the regulations in the Regulations on Technical Measures and Conditions for Concrete and Reinforced Concrete.

2. Cement - Cement used for concrete production must meet the quality requirements established by the standards in MEST. Cement used for these works on the building must be fresh and brought to the construction site in original bags. Cement on the construction site should be stored in premises well protected from water and moisture, according to instructions and regulations for concrete and reinforced concrete.

3. Water - Water used for concrete production must meet the conditions specified in the MEST standard. The amount of water used must be in accordance with the prescribed water-cement ratio in the mixture, sufficient but not greater than necessary to produce dense concrete suitable for work, which can be poured and compacted without difficulty around water and sewage installation pipes, without segregation or water loss on the surface.

Manual mixing of small quantities of non-structural elements on the building is allowed, as is the case with the subject Adaptation. Concrete should be compacted in layers of approximately 15cm, with any breaks in the layers being stepped and recorded in the Construction Log..

### **A.3 Masonry Works**

Works on making cement screeds and plastering of designated walls listed in the Bill of Quantities and cost estimate must be executed professionally and with quality, all in accordance with applicable regulations, MEST standards, approved drawings, and technical specifications. The material for masonry works must be of high quality (river sand without organic impurities and silt, well-burned lime, properly slaked and aged, cement of the prescribed grade), and the execution must be professional and conscientious. The mortar must be prepared on a daily basis, and the work area cleaned after each operation. All these works are included in the price of the final work item and will not be charged separately. Cement and lime should be stored in a dry place and used alternately according to deliveries. Sand should be stored separately, in accordance with its type, on a firm and dry base and protected from any contamination.

The Contractor is obligated to submit appropriate laboratory samples of all materials necessary for testing upon request of the supervisory authority. Samples of all materials will be periodically tested. All unused materials will be removed from the construction site at the Contractor's expense. Mortar will be prepared only in the quantity that can be used on the same day. Hardened mortar must not be used. The preparation of mortar should be done exactly according to the regulations and in the proportion required in the respective item of the cost estimate. Regular mixing is mandatory both during preparation and during use, to avoid separation of lime milk. The sand used for preparing mortar must be sharp and clean river sand, and the lime well-aged and sifted through a dense sieve. The cement to be used is ordinary Portland cement. Plastering should be done at a favorable temperature because at high temperatures, the mortar cracks due to rapid drying, while at low temperatures, it freezes and falls off. Plastering should be done from top to bottom. Plastering will be done after removing parts of the panels (for installing new water and sewage pipes) and chasing the walls for installing new Electrical and Mechanical devices. Before plastering, all surfaces to be plastered must be thoroughly cleaned from dust and dirt using a brush, and in the summer months, watered (especially walls to be plastered with cement mortar). Joints should be cleaned of excess mortar to a depth of 1.5-2 cm for better adhesion of the

mortar. The cement screed must be ideally flat (deviations maximum +/- 1mm), on a cleaned and washed base, made from mortar made of sifted gravel with a granulation of 1, in a ratio of 1:3.

#### **A.4 Insulation Works**

Insulation works must be carried out with qualified workforce and appropriate tools, as well as materials that comply with technical regulations, norms, and MEST standards. The Contractor is obliged to submit to the client certificates, as well as additional explanations and instructions on the installation method for all materials they will use in their work before commencing the works. Certificates must be issued by institutions authorized for this type of work. The certificates must not be older than one year from the date of issue to the date when the Contractor started performing these works on the building. If there are no valid standards for certain specified materials, certificates with opinions from the relevant authorized professional institution must be obtained to confirm their applicability in the intended insulation.

All works that may potentially damage insulation if performed in parallel or later must be completed before insulation installation. Cement screeds on which cementitious waterproofing insulation is applied must be properly hardened and dry. Before commencing insulation works, a check must be conducted to verify the correctness of previously executed construction, craft, and other works that could affect the quality, durability, and safety of the insulation. If any irregularities are found, they must be rectified before insulation works commence.

Before applying insulation, the surfaces to be insulated must be carefully leveled, cleaned, and completely dry. Insulation layers must not be laid on a concrete substrate unless the concrete has completed the curing process. Before commencing any of the contracted insulation works, the substrate must be dusted off and thoroughly cleaned of all impurities. A basic primer based on cementitious waterproof emulsion should be applied, with a layer of Trevira polyester fabric.

During or after insulation works, while the insulations are still unprotected, walking over them, transporting materials, or storing materials on them is prohibited. Immediately after insulation works, only those construction works related to the protection of the insulation may be carried out.

In addition to walls and other vertical surfaces, waterproofing should be applied to elevations at least 15 cm in height measured from the base of the wall. The Contractor is obliged to provide necessary measures and means for hygienic-technical protection at work, inform all workers about these measures, and ensure their implementation.

#### **A.5 Locksmith Works**

Minimum performance requirements for sealing all doors (finished product), which must be proven by an official certificate: EN 12207 - Class 4; EN 12208 - Class E750; EN 12210 - Class C4. All positions should be made according to the drawings in the Specification of interior doors. Use profiles without interrupted thermal breaks (cold profiles, "Alumil M9400" or equivalent), in natural AL color (RAL 9006) for fabrication.

The glass panels should be glazed with single-pane safety laminated "pamplex" glass 3.3.1. thickness = 6mm for the walls, and single-pane float glass thickness = 4mm for the door transoms. The door leaves should be filled with 18mm thick chipboard in the light Sonoma oak decor (or visual equivalent).

The walls and doors are equipped with high-quality fittings based on nickel and AL alloy ("Winkhaus Activ Pilot", "Fapim" or technical equivalent), handles, locks, and keys. Installation is done by the dry method.

#### **A.6 Ceramic Tiling Works**

Ceramic tiling works must be carried out professionally, with quality and precision, following the technical conditions of MEST for ceramic tiling works. The ceramic tile materials delivered and installed on the building must be new (unused) and comply with applicable standards.

The ceramics for all rooms are exclusively of class I, with dimensions of wall tiles 29.5x59 cm and floor tiles 33x33 cm, type and tone according to the designer's choice. The tiles must have sharp edges,

be parallel, straight, and undamaged. They must not contain soluble salts or other harmful substances, the surface must be free of cracks and bubbles, the bottom surface must be processed for suitable installation, and the color must be uniform. The tiles must not exceed the water absorption limit per surface specified by the Yugoslav standard for the corresponding type. When choosing tiles, it is necessary to ensure that, in addition to aesthetic requirements, the tiles meet the intended physical, chemical, and mechanical properties.

The contractor is obliged to provide the client with certificates for all materials that will be used in the execution of the works before commencing the work. The certificates must be issued by an authorized institution for the given type of work and must not be older than one year from the date of issue until the start date of the work. These conditions apply to cladding walls and floors with all types of ceramic tiles inside the building.

All materials used must be new and not previously used. Binding material - cement mortar and adhesive must meet quality standards and standards and must be certified. The binding material is applied in the thickness specified by the norm or declared in the prospectus so that it provides complete and permanent adhesion of the ceramics to the substrate and must not change or damage the substrate. Water must be clean.

The adhesive for ceramic tile installation must be declared for a specific type of work and certified by a designated institution. For certain widths of joints between ceramic tiles, use PVC crosses, which must be removed before grouting. Joints are to be treated with mortar made of white cement.

Brass cover strips must be installed at all transitions and joints between different types of floors, or where a threshold is not provided. Before starting work, ensure that the substrate is prepared to accept the binding agent and ceramic tile covering. When tiling walls with tiles in cement mortar, concrete walls must be previously roughened by chiseling and sprayed with cement milk with sieved gravel up to 4mm in proportion 1:1.

Tiling of walls and floors should commence after the rooms have been plastered and all installations have been completed and inspected.

1. Only adhesives declared by the manufacturer for a specific type of work should be used for ceramic tile adhesion.

2. Before proceeding with ceramic tile cladding, the correctness and quality of the substrate over which the cladding is being done must be checked. When cladding the interior of the building, ceramic works are carried out only after the rooms have been plastered, window frames have been installed, and installations have been conducted and inspected, unless otherwise specified in the work description.

3. Cladding of wall surfaces should be carried out completely flat and vertical, without waves, protrusions, or indentations, with uniform and sufficiently wide joints. Finishing works, as well as breaks, recesses, and protruding corners, should be covered with rounded (single-edged, double-edged) tiles or tiles with "beveled" edges.

4. Cladding of floor surfaces is carried out horizontally, without waves, protrusions, with flat surfaces or surfaces with necessary slopes, with uniform and sufficiently wide joints. After completion of cladding, joints should be treated with appropriate sealing material. Tiles must be precisely cut and installed at the points of penetration of installation pipes and drain grates. To protect the completed works, all traffic and movement of people must be prevented within 3 days of completion of cladding. Until use, to protect surfaces, the floor should be sprinkled with sawdust.

5. Before starting the work, ensure that the substrate is prepared to accept the bonding material for the ceramic tile cladding. When cladding walls with adhesive tiles, ensure that the substrate made of cement mortar is undamaged, sufficiently flat to accept the bonding material, clean, scrubbed with a mild detergent solution to remove all dirt, well-rinsed with clean water, and dry. Cladding of walls and floors in the interior of the building should commence after the rooms have been plastered, window frames and metalwork have been installed, and all types of installations have been conducted and



inspected. Cladding of wall surfaces should be carried out completely flat and vertical, without waves, with joints at least 2mm wide. Horizontal joints should be continuous around the entire perimeter of the room, and vertical joints should be executed in excess. All edges must also be vertical. After laying the tiles on walls and floors, grout with white cement unless otherwise specified by the estimate. The contractor is obliged to protect the completed works from damage until handover to the investor, as well as to remedy any damage incurred at their own expense. Any cracked, scratched, or chipped tile will be considered damaged.

6. Before commencing work, the contractor is required to provide the designer and the supervising authority with samples of the materials to be installed and their certificates of compliance.

#### **A.7 Flooring works**

Flooring works must be carried out professionally and with high quality, in accordance with the technical conditions for laying floor coverings set by MEST.

All materials for flooring works must be of high quality and meet the requirements specified in MEST standards. In this renovation project, PVC electro-conductive antistatic flooring and LVT design tiles are being used.

The substrate for floor coverings must be of good quality and suitable for the type of flooring being installed. The substrate must be constructed to meet all quality requirements as per regulations. The air temperature in the rooms where flooring works are being carried out must not be lower than +10°C. All flooring installations must be of high quality and in accordance with standards and technical specifications.

These works must be carried out with appropriate tools and materials that also comply with technical regulations, norms, and standards. Otherwise, the contractor is obligated to remove them from the construction site. The contractor is responsible for protecting the completed works of other contractors from damage during the execution of their own works.

The contractor must provide certification confirming the following characteristics: dimensions, dimensional stability, lightfastness, non-flammability, slip resistance, electrical conductivity, and surface uniformity.

#### **A.8 Plastering Works**

A freestanding wall for closing door openings, with double-sided cladding made of solid gypsum plasterboards 12.5 mm thick, on a substructure of galvanized profiles, which are attached to vertical and horizontal U-edge profiles with a width of 100 mm, fixed to the side edges of the opening and floor and ceiling with impact wedges every 80 cm. Side edges and joints with the floor and ceiling are to be sealed with self-adhesive expansion tape.

Between the installed profiles, rock or glass wool is placed to achieve sound insulation of the unit. Upon completion of the position, all joints are to be taped and skimmed perfectly flat to avoid cracks.

Plastering works must be carried out professionally and with high quality.

#### **A.9 Painting Works**

This group of works includes the repair of wall and ceiling damage with putty (such as Geltofix or similar) resulting from the execution of other positions, in all specified rooms.

Painted surfaces must be clean, without brush or roller marks. The color and tone must be completely uniform in intensity, without any stains. The paint must completely cover the substrate, and all edges of painted surfaces must be flat and even, as well as the joints with doors, windows, and the like.

Emulsion paints must be washable after the binding period, i.e., washable with a soft sponge and water, with a small addition (about 1%) of a neutral detergent, without coloring the water.

Painted surfaces must be resistant to light, temperature influences, various chemical and mechanical impacts, as well as atmospheric conditions.

The choice of colors is made by the designer, and the Contractor is obliged to submit certificates for all materials to be used before starting the works. Certificates must be issued by an authorized

institution for the given type of work and must not be older than one year (from the date of issue of the certificate to the date of commencement of the works).

The Contractor is required to submit color samples for the appropriate materials before starting the works and to create test samples with a size of 1.0 m<sup>2</sup> for each type of painting. Final painting can only proceed upon receiving written approval from the designated person responsible for color selection.

Additionally, the Contractor is obliged to thoroughly clean the substrate from mechanical impurities, dust, and grease before starting the works.

During the execution of the works, the Contractor must ensure that their workers do not accidentally soil other types of works performed by other contractors. Otherwise, the Contractor is obligated to compensate the client for the value of the repairs made to those works.



## 2.3. QUALITY CONTROL AND ASSURANCE PROGRAM

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**QUALITY CONTROL AND ASSURANCE PROGRAM**

In order to implement the Quality Control and Assurance Program for materials and construction works as envisaged by the project, the contractor must fully comply with:

- The Law on Spatial Planning and Construction of Buildings (Official Gazette of Montenegro, No. 064/17 dated October 6, 2017, and 044/18 dated July 6, 2018).

To ensure the quality of materials and executed works, the Contractor must familiarize its Subcontractors with all the provisions of this Program, general and specific cost conditions, as well as all technical details contained in the main project.

The fundamental requirement prescribed by this Program is the obligation to install materials, assemblies, and equipment that have technical approval according to the Law on Spatial Planning and Construction of Buildings, a certificate, or a declaration of conformity, and comply with the specified technical regulations and standards.

Tests will be conducted for elements of the structure that are important for achieving essential characteristics when so required by specific regulations.

- The Quality Control and Assurance Program with prescribed tests and criteria that must be met in installations are presented as part of the projects for water supply and sewage systems and electrical installations.

- In the part of the structure resulting from craft and finishing works, no quality control tests are envisaged. The quality control of installed materials and equipment will be demonstrated through technical approvals and certificates or declarations of conformity. This particularly applies to:

- Materials for waterproofing
- Materials for interior floor treatments (anti-slip properties)

The quality control of work execution will be regularly monitored by the supervising engineer. Technical specifications, quality criteria, construction-related regulations, and standards that materials and works must comply with are specified according to the type of work.

**PREPARATORY WORKS**

Preparatory works must be carried out in accordance with the project, regulations, quality control and assurance program, construction organization project, requirements of the supervising engineer, and general technical conditions for construction.

Existing Installations:

Rules and regulations related to individual types of installations must be respected during the execution of works. Installations that are in use must be appropriately protected from damage, removed, or relocated as indicated or specified by the project. 'Dead' installations should be removed or closed off. The contractor is obliged to inform the supervisory authority about the position of such installations.

**CONCRETE WORKS**

- MEST EN 12620:2015 Aggregates for concrete
- MEST EN 13055:2017 Lightweight aggregates
- METI CEN/TR 16912:2017 Guidelines for supporting the European standardization procedure for cement
- METI CR 13902:2015 Test methods for determining the water/cement ratio in fresh concrete
- Regional specifications and recommendations for avoiding harmful alkali-silica reactions in concrete CR 1901:2015

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- MEST EN 932-5:2013 Tests for general properties of aggregates - Part 5: Common equipment and calibration
  - MEST EN 932-5:2013/Cor.1:2016 Tests for general properties of aggregates - Part 5: Common equipment and calibration
  - MEST EN 933-6:2015 Tests for geometrical properties of aggregates - Part 6: Assessment of surface characteristics - Aggregate flow coefficient
  - MEST EN 933-8:2016 Tests for geometrical properties of aggregates - Part 8: Assessment of fines - Sand equivalent test
  - MEST EN 933-9:2014 Tests for geometrical properties of aggregates - Part 9: Assessment of fines - Methylene blue test
  - MEST EN 196-1:2017 Methods of testing cement - Part 1: Determination of strength
  - MEST EN 196-3:2018 Method of testing cement - Part 2: Chemical analysis of cement
  - MEST EN 196-3:2018 Methods of testing cement - Part 3: Determination of setting times and soundness
  - MEST EN 1744-1:2014 Chemical tests for aggregates -
  - MEST EN 16757:2018 Sustainability of construction works - Environmental product declaration, Rules for product category rules for concrete and concrete elements

### **MASONRY WORKS**

These works are carried out in accordance with the Regulations on Technical Requirements for Masonry Structures (Official Gazette of Montenegro, No. 018/18 dated March 23, 2018) and the Regulations on Technical Requirements for Chimneys in Buildings (Official Gazette of Montenegro, No. 018/18 dated March 23, 2018).

- MEST EN 1015-12:2017 Methods of test for mortar for masonry - Part 12: Determination of adhesive strength of hardened rendering and plastering mortars on substrates
- MEST EN 1097-11:2015 Tests for mechanical and physical properties of aggregates - Part 11: Determination of compressive strength of lightweight aggregates under compressive pressure
- MEST EN 1097-6:2015 Tests for mechanical and physical properties of aggregates - Part 6: Determination of particle density and water absorption
- METI CEN/TR 15125:2015 Design, preparation, and application of cement and/or lime-based internal plasters systems
- METI CEN/TR 15225:2015 Factory production control system for CE marking (conformity assessment 2+) of designed masonry mortars
- MEST EN 998-1:2017 Specification for mortar for masonry - Part 1: Rendering and plastering mortar for internal and external walls
- MEST EN 16908:2018 Cement and building lime - Environmental product declarations - Rules for product category complementary to EN 15804

### **INSULATION WORKS**

- MEST EN 12592:2016 Bitumen and bituminous binders - Determination of solubility
- MEST EN 12593:2016 Bitumen and bituminous binders - Determination of Fraass breaking point
- MEST EN 12595:2016 Bitumen and bituminous binders - Determination of kinematic viscosity
- MEST EN 12597:2015 Bitumen and bituminous binders - Terminology
- MEST EN 12596:2016 Bitumen and bituminous binders - Determination of dynamic viscosity using vacuum capillary viscometer
- MEST EN 12606-1:2016 Bitumen and bituminous binders - Determination of paraffin wax content - Part 1: Method by distillation
- MEST EN 12607-1:2016 Bitumen and bituminous binders - Determination of resistance to hardening

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- MEST EN 13179-1:2015 Tests for filler aggregates used in bituminous mixtures - Part 1: Test using the delta ring and ball apparatus
  - MEST EN 13303:2018 Bitumen and bituminous binders - Determination of mass loss of industrial bitumen after heating
  - MEST EN 13305:2013 Bitumen and bituminous binders - Framework for specification of solid industrial bitumens
  - MEST EN 13398:2013 Bitumen and bituminous binders - Determination of reversible elasticity of modified bitumen
  - MEST EN 13399:2013 Bitumen and bituminous binders - Determination of storage stability of modified bitumen
  - MEST EN 13589:2013 Bitumen and bituminous binders - Determination of tensile properties of modified bitumen by the force ductility method
  - MEST EN 13614:2013 Bitumen and bituminous binders - Determination of adhesion of bitumen emulsions by water immersion test
  - MEST EN 13632:2014 Bitumen and bituminous binders - Visualization of polymer dispersion in polymer-modified bitumen
  - MEST EN 13702:2014 Bitumen and bituminous binders - Determination of dynamic viscosity of modified bitumen by cone and plate method
  - MEST EN 13703:2014 Bitumen and bituminous binders - Determination of strain energy
  - MEST EN 13808:2014 Bitumen and bituminous binders - Framework for specification of cationic bituminous emulsions
  - MEST EN 13924-1:2016 Bitumen and bituminous binders - Specification framework for bitumens classification - Part 1: Hard bitumens for roads
  - MEST EN 13924-2:2015 Bitumen and bituminous binders - Specification framework for bitumens classification - Part 2: Multigrade bitumens
  - METI CEN/TR 15352:2015 Bitumen and bituminous binders - Determination of performance-related specifications: Report on the state in 2005
  - MEST EN 16849:2017 Bitumen and bituminous binders - Determination of water content in bitumen emulsions - Method using uniform drying
  - MEST EN 16659:2017 Bitumen and bituminous binders - Test for recovery of binders after multiple stress creep recovery
  - MEST EN 16345:2014 Bitumen and bituminous binders - Determination of demulsification time of bitumen emulsion using Redwood Viscometer No. II
  - MEST EN 15322:2014 Bitumen and bituminous binders - Framework for specification of diluted and liquid bituminous binders
  - MEST EN 15323:2014 Bitumen and bituminous binders - Determination of accelerated ageing/conditioning by the rotating cylindrical chamber method (RCAT)
  - MEST EN 15626:2017 Bitumen and bituminous binders - Determination of adhesion of diluted and softened bituminous binders by water immersion test - Aggregate method
  - MEST EN 14770:2014 Bitumen and bituminous binders - Determination of complex shear modulus and phase angle - Dynamic shear rheometer (DSR)
  - MEST EN 14771:2014 Bitumen and bituminous binders - Determination of flexural creep stiffness - Bending beam rheometer (BBR)
  - MEST EN 14769:2014 Bitumen and bituminous binders - Conditioning by accelerated ageing in a pressure aging vessel (PAV)
  - MEST EN 14496:2018 Gypsum based adhesives for thermal/acoustic insulation composite panels and gypsum boards - Definitions, requirements and test methods Specification for foam-producing system prior to installation

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- MEST EN 1427:2016 Bitumen and bituminous binders - Determination of softening point - Ring and ball method
  - MEST EN 1428:2013 Bitumen and bituminous binders - Determination of water content of bituminous emulsions - Azeotropic distillation method
  - MESTEN 1429:2015 Bitumen and bituminous binders - Determination of residue of bituminous emulsions on sieving and determination of storage stability by evaporation
  - MEST EN 1426:2016 Bitumen and bituminous binders - Determination of penetration
  - METI CEN/TR 16676:2016 Energy loss through industrial doors
  - METI CEN/TR 15894:2017 Building hardware - Hardware for doors accessible to children, elderly and disabled persons in private and public premises - Guidelines for designers
  - MEST EN 16580:2017 Windows and doors - Water-tightness and resistance to wind load - Test and classification

#### **LOCKSMITH WORKS**

- MEST EN 14195:2016 Metal components for gypsum board systems - Definitions, requirements and test methods
- MEST EN 13637:2016 Hardware in buildings - Electrically controlled escape systems for use on evacuation routes - Requirements

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## 2.4. INSTRUCTIONS FOR MANAGING CONSTRUCTION WASTE

**INSTRUCTIONS FOR MANAGING CONSTRUCTION WASTE**

In the Law on Waste Management ("Official Gazette of Montenegro", No. 64/11 dated 29.12.2011), which regulates the types and classification of waste, planning, conditions, and methods of waste management, and other issues of importance for waste management, under point 7) of Article 3, construction waste is defined as waste generated during the construction, maintenance, and demolition of buildings.

Furthermore, under point 27) of the same Article, the definition of waste is provided as any material or object that the holder discards, intends to discard, or is required to discard in accordance with the Law. Under Article 37), special types of waste are defined: waste from electrical and electronic products, waste vehicles, waste tires, waste batteries and accumulators, waste oils, waste packaging, construction waste, waste containing asbestos, PCB waste, sewage sludge, medical and veterinary waste.

Waste management is carried out in a manner that does not have a negative impact on the environment and human health, particularly:

- on water, air, soil, plants, and animals;
- in terms of noise and odors;
- in areas of special interest (protected natural and cultural heritage sites).

Waste is classified according to:

- groups and subgroups, in accordance with the origin of the waste;
- types, depending on their hazardous properties.

Waste is sorted into groups and subgroups depending on the activity within which it was produced or its method of generation.

Types of waste, based on their hazardous properties, include hazardous and non-hazardous waste, and in terms of disposal, inert waste.

Classification of waste, waste catalog, waste treatment procedures, including processing and disposal, are determined by the regulation of the state administration body responsible for environmental affairs - the Ministry.

In the waste catalog, under item 17, Construction waste and waste generated by demolition (including excavated soil from contaminated sites) fall under the following codes:

17 01	concrete, bricks, tiles, and ceramics
17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics
17 01 06*	mixtures or individual fractions of concrete, bricks, tiles, and ceramics containing hazardous substances
17 01 07	mixtures or individual fractions of concrete, bricks, tiles, and ceramics other than those listed in subgroup 17 01 06
17 02	wood, glass, and plastic
17 02 01	wood
17 02 02	glass
17 02 03	plastic
17 02 04*	glass, plastic, and wood containing hazardous substances or contaminated with hazardous substances
17 03	bituminous mixtures, tar, and tar products
17 03 01*	bituminous mixtures containing coal tar

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17 03 02	ituminous mixtures other than those listed in subgroup 17 03 01
17 03 03*	coal tar and tar products
17 04	metals (including their alloys)
17 04 01	copper, bronze, brass
17 04 02	aluminum
17 04 03	lead
17 04 04	zink
17 04 05	iron and steel
17 04 06	tin
17 04 07	mixed metals
17 04 09*	metal waste contaminated with hazardous substances
17 04 10*	cables containing oil, coal tar, and other hazardous substances
17 04 11	cables other than those listed in subgroup 17 04 10
17 05	soil (including soil excavated from contaminated sites), rock, and dredged material excavated by a backhoe
17 05 03*	soil and rock containing hazardous substances
17 05 04	soil and rock different from those listed in subgroup 17 05 03
17 05 05*	dredged material excavated by a backhoe containing hazardous substances
17 05 06	dredged material excavated by a backhoe different from that listed in subgroup 17 05 05
17 05 07*	waste originating from caterpillars containing hazardous substances
17 05 08	waste originating from caterpillars different from that listed in subgroup 17 05 07
17 06	insulation materials and building materials containing asbestos
17 06 01*	insulation materials containing asbestos
17 06 03*	other insulation materials consisting of or containing hazardous substances
17 06 04	insulation materials different from those listed in subgroups 17 06 01 and 17 06 03
17 06 05*	building materials containing asbestos
17 08	gypsum-based construction material
17 08 01*	gypsum-based construction material contaminated with hazardous substances
17 08 02	gypsum-based construction material different from those listed in subgroup 17 08 01
17 09	other construction and demolition wastes
17 08 01*	construction and demolition wastes containing mercury
17 08 02*	Construction and demolition wastes containing PCBs (e.g., sealants containing PCBs, resin-based floors containing PCBs, glazes containing PCBs, and capacitors containing PCBs)
17 08 03*	other construction and demolition wastes (including mixed wastes) containing hazardous substances
17 08 04	mixed construction and demolition wastes different from those listed in subgroups 17 09 01, 17 09 02 and 17 09 03

Waste management is carried out in a way that:

- at least 50% of the total mass of collected waste materials, such as paper, metal, plastic, and glass from households and other sources, is prepared for reuse and recycling;
- at least 70% of non-hazardous construction waste is prepared for reuse and recycling, as well as other processing methods, such as using it as a substitute for other materials in landfilling, excluding materials from nature.

The waste generator, trader, and waste broker are required to keep records of the quantities and types of waste, in accordance with the waste catalog. The records are maintained in the form of waste logbooks, where data for each type of waste are entered separately.

Based on Article 54 of the mentioned Law, the generator of construction waste is obliged to process construction waste into construction material.



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It is prohibited to dispose of construction waste in water, on land, or in the ground, unless the construction waste has been processed and used as construction material.

Construction waste can be temporarily stored on the construction site's land.

The processing of cement asbestos construction waste is prohibited. Construction waste that does not contain hazardous substances and cannot be processed is disposed of at an inert waste landfill.

The investor in the construction, reconstruction, or removal of a facility with a volume, including excavation, greater than 2,000 m<sup>3</sup>, is required to prepare a construction waste management plan. If the construction waste contains or is exposed to hazardous materials, the investor is obliged to prepare a construction waste management plan, regardless of the volume of the facility.

If construction waste contains or is exposed to hazardous materials, the investor in construction, reconstruction, or demolition of the facility is obliged to prepare a construction waste management plan, regardless of the volume of the facility.

The investor must, through the construction waste management plan, establish measures to ensure the recycling of at least 70% of the mass from construction waste, excluding river sediments and other natural material from excavated soil.

The handling of construction waste, methods and procedures for processing construction waste, conditions and methods for the disposal of cement asbestos construction waste, as well as the requirements that a construction waste processing facility must meet, are determined by the regulation of the Ministry.

#### ECOLOGICAL SITE MANAGEMENT

It is necessary to take the following environmental protection measures during construction activities on the site:

- establish an adequate organization for carrying out the work,
- use modern machinery and maintain the machinery park in good condition,
- strictly control the handling of oil and oil derivatives with maximum protection measures,
- control dust generation at the construction site,
- establish adequate waste management for waste generated during construction activities,
- consolidate the land (biologically and mechanically) where construction work has been carried out,

- regularly remove waste from the construction site while forming the necessary documentation.

Choosing the right location, content, and organization of the construction site are among the first steps that can reduce or completely eliminate many unwanted occurrences during construction work, both from the perspective of the contractor's desires and capabilities and from the perspective of environmental protection.

The need for ecological site management arises from the fact that after the completion of the work and the start of the facility's operation, these sites are often left undeveloped, i.e., they are not returned to their original state. As a result, they not only remain very unsightly spots in the landscape but also become places for the formation of makeshift dumps.

At the specified location, the contractor will also perform all activities related to the proper positioning of container-type facilities:

- containers for technical staff,
- containers for workers,
- containers for storing materials and tools,
- parking space for machinery and vehicles.

Many occurrences at the specified location, such as waste disposal and other material handling, various incidental incidents, etc., can have consequences not only locally but also on the surrounding environment. To prevent these and other events, it is necessary to consider ecological site management. Special containers for municipal waste disposal will also be provided.

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## APPLICATION AND PROPOSAL OF ENVIRONMENTAL PROTECTION MEASURES

The Environmental Protection Guidelines are implemented at the construction site. The contractor/subcontractor and their workers are not allowed to bring visitors to the site without proper approval from the responsible authority.

Equipment and tools brought to the site must be in working order.

Manufacturers/subcontractors are required to bring all necessary tools, personal protective equipment, and equipment needed to complete the job. The contractor/subcontractor is obligated to fully comply with and apply legal regulations regarding environmental protection.

At the end of each workday, the work area must be cleaned, and construction waste (debris) must be removed from the area under the responsibility of the contractor/subcontractor. An authorized person must conduct inspections.

The contractor/subcontractor is responsible for any damage caused.

Bringing chemicals to the site without proper approval from the responsible authority is prohibited.

All chemicals brought to the site must be registered (type, quantity, packaging, location, and purpose of use) and suitable for use, with appropriate accompanying documentation (transportation data, storage information, safety measures, first aid) that should be prominently displayed at the point of use.

The contractor/subcontractor is obliged to remove any excess chemicals.

The costs of storing or removing chemicals left by the contractor/subcontractor will be charged to them.

Chemicals emitting strong odors during use must be approved for use by the responsible authority. Waste and/or residue from chemicals, rinsing from chemical packaging **MUST NOT** be discharged into atmospheric and sanitary sewers or wastewater channels. If chemicals are used to clean equipment, the equipment **MUST NOT** be rinsed with water into wastewater channels without proper approval.

Any chemical spills must be reported immediately to the responsible authority.

The contractor/subcontractor and their employees must respect all posted signs and notices. Only approved containers and canisters can be used for storing and containing flammable liquids.

Contractor/subcontractor should hold a meeting with their workers and acquaint them with the measures and rules at the site.

The contractor/subcontractor is obligated to compensate for any damage caused by their irresponsible behavior.

In the event of an emergency situation, the contractor/subcontractor and their employees should leave the area through the nearest exit slowly, without running and causing panic (upon entering a room, they should check the evacuation map).

The contractor/subcontractor is responsible for promptly responding to the emergence of risky conditions under their control and implementing measures to reduce the risk.

If the measures taken are not adequate and there is a possibility of environmental pollution, the work will be stopped until the necessary measures are established to maximize risk reduction.

If a potentially hazardous or risky situation is noticed that could cause environmental pollution, the contractor/subcontractor or authorized personnel must immediately stop the work to resolve the situation and approve the continuation of further work.

In case the contractor/subcontractor or their workers violate any rules, they may be:

- verbally warned;
- issued a written warning;
- removed from the site;
- permanently suspended from work.

## DISPOSAL OF WASTE

During the construction work, waste such as broken concrete, excavated soil, waterproofing materials, etc., is generated. Upon completion of the work, all waste material will be removed from the construction

site or buried in designated landfills. The collection and disposal of waste material will be carried out by the contractor in accordance with local procedures (by entering into a contract for periodic removal of collected waste and preparing accompanying documentation), and upon completion of the work, they will remove all their objects and equipment, and restore the construction site to its original condition.

The main sources of waste materials from construction sites are:

- solid municipal waste from construction sites,
- material removed from old (existing) structures,
- excess material for installation,
- waste water from construction site basins and waste water from areas designated for washing machines, equipment, and oil replacement.

To prevent uncontrolled accumulation and spreading of waste materials, the following measures will be taken:

- to dispose of municipal waste from the construction site, the necessary number of bins and containers will be provided, which will be emptied according to the required schedule;
- if there is a need to temporarily store some materials that will be installed later, this disposal should be done within the space of the construction site basin designated for temporary deposition or in the immediate vicinity of the construction site;
- the contractor will devise and implement a system for collecting and storing waste water and oil from the area designated for washing machines and oil replacement within the construction site basin; washing machines and oil replacement are prohibited outside of designated areas;
- packaging from oil and other petroleum derivatives will be collected and taken to designated places for solid waste collection.

**NOTE 1:** Every person (employee or third party) present at the site of the facility, if noticing excessive accumulation, scattering, leaking, spilling, or any other inadequate handling of waste, is obliged to inform the responsible person about it.

**NOTE 2:** All individuals present (employees and third parties) at the facility site are required to adhere to these instructions. For any questions, suggestions, or complaints regarding environmental protection, the responsible person can be contacted.

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### **3. NUMERICAL DOCUMENTATION**

## WORKS QUANTITIES

Num.	Types of work	Unit of measure	Quantity
<b>A.</b>	<b>Construction and craft works</b>		
<b>A.1</b>	<b>Preliminary works</b>		
A.1.1	Dismantling and removal of equipment and furniture from the facility. Flat rate calculation.		flat rate
A.1.2	Demolition of the hand washing tub in the toilet T, wall thickness 10 cm Calculation per m <sup>3</sup> , with loading into a construction container for the transport of construction debris.	m <sup>3</sup>	0.7
A.1.3	Demolition of floor ceramic tiles placed on adhesive (remove the tiles and the substrate to the cement screed) and wall ceramic tiles, with breaking of mortar, in: toilets T, T1, TM, TŽ, classroom MPS i classrooms M2,3,4,5. Clean surfaces with steel brushes. Calculation per m <sup>2</sup> , with loading into a construction container for the transport of construction debris.	m <sup>2</sup> m <sup>2</sup> m <sup>2</sup>	75.73 2.5 10
A.1.4	Dismantling of existing parquet and parquet moldings in: kitchen K, classroom MPS classrooms M1,2,3,4,5,6. Calculation per m <sup>2</sup> , with loading into a construction container for the transport of construction debris.	m <sup>2</sup> m <sup>2</sup> m <sup>2</sup>	11 72.85 272.06
A.1.5	Dismantling of the portal made of black locksmith, at the entrance to the pavilion, dim. 230/210+70. Calculation per piece, with loading into a construction container for the transportation of construction debris.	piece	1
A.1.6	Dismantling of internal wooden doors with skylight from classrooms M1, M6, MPS, kitchenette K and toilet T, dim. 90/210+114 Calculation per piece, with loading into a construction container for the transportation of construction debris.	piece	5
A.1.7	Dismantling of internal wooden doors with skylights from classrooms M2, M4, M5, dim. 90/210+80. Calculation per piece, with loading into a construction container for the transportation of construction debris.	piece	3

A.1.8	Dismantling of internal wooden doors from classroom M3 and toilet T1, dim. 90/210.		
	Calculation per piece, with loading into a construction container for the transportation of construction debris.	piece	2
A.1.9	Dismantling of internal wooden toilet doors. TM i TŽ, dim. 70/210.		
	Calculation per piece, with loading into a construction container for the transportation of construction debris.	piece	2
A.1.10	Installation of a construction container of 7 m <sup>3</sup> for the transport of construction rubble, and transport to the nearest landfill.		
	Calculation of one container per day, with removal.	days	7
A.1.11	Rough and fine cleaning of the building, during and after the completion of all works.		
	Calculation per m2 of cleared area.	m2	383.25

A.2.1*      Masonry works			
A.2.1	Procurement of materials and plastering of damaged walls with gypsum plaster: processing around dismantled doors, patching of slits for electrical installation (starting from the part under the stairs at the entrance), water and sewage installations and thermotechnical installations. Wet the substrate and apply thin mortar. Apply a 2-2.5 cm thick layer of 1:2:6 extended gypsum plaster on the base and pull it flat with laths. Apply a layer of clean plaster 1-3 mm thick over the resulting layer, trowel flat and smooth, without visible traces of the trowel.		
	Calculation per m2 of plastered surface.	m2	30.00
A.2.2	Creation of an ideally flat concrete screed (unevenness max +/- 1mm), on a cleaned and washed substrate, from mortar made from sieved gravel of granulation 1, in a ratio of 1:3, in:		
	classrooms M1,2,3,4,5,6 (substrate for PVC electroconductive antistatic floor),	m <sup>2</sup>	272.1
	hall MPS (substrate for electric prov. floor type LVD),	m <sup>2</sup>	72.84
	kitchen K (substrate for new floor tiles),	m <sup>2</sup>	11
	toilets T, T1, TM, TŽ (base for new floor tiles).	m <sup>2</sup>	11.10
Treat the cement screed until it hardens. Calculation per m2 of cement creed.			
A.3      Insulation works			
A.3.1	Procurement and production of polycement watertight waterproofing, before gluing the ceramics, with a layer of polyester fabric. Pre-coat the surfaces with polymer dispersion on:		
	toilet flor T, T1, TM, TŽ.	m <sup>2</sup>	11.1
	toilet wall T	m <sup>2</sup>	6.6
Place the waterproofing over the cement screed and raise it 15 cm along the walls and all internal surfaces exposed to direct water spraying. Calculation per m <sup>2</sup> of thermal insulation performed.			



<b>A.4</b>	<b>Locksmith works</b>
	<p>Minimum sealing performance of all doors (finished product), which must be proven by an official certificate: EN 12207 - CLASS 4; EN 12208 – CLASS E750; EN 12210 - CLASS C4. All positions should be made according to the drawings in the Interior Door Specification. Calculation per piece of installed door.</p>
A.4.1	<p>Installation of a fixed glazed AL wall, without a threshold, with a double door, a side fixed part and a skylight divided by three vertical crossbars, at the entrance to the machine block, in the corridor H. The wall is with a classic AL frame made of profiles without an interrupted thermal bridge (cold profiles), in the color natural AL (RAL 9006). The rock is glazed with single safety multi-layer glass 3.3.1. d=6mm. The rock is equipped with quality fittings based on nickel and AL-alloys, handles, locks and keys. Installation is a dry method.</p>
	<p><u>Mark 1, dimensions 230/210+70.</u> piece 1</p>
A.4.2a	<p>Installation of a single-wing door, without a threshold, with an infill made of univer and a fixed skylight, at the entrance to the toilet T. A frame made of AL profile without an interrupted thermal bridge (cold profiles), in natural AL color (RAL 9006). Frame with adjustable AL rails. Wing with infill from universe d=18mm in light Sonoma oak decor (or visual equivalent), supplied, in the lower part, with 3 circular openings for air intake, with nets. Overlight glazed with single float glass d=4mm. The doors are equipped with quality fittings based on nickel and AL-alloys, handles, locks and keys. Installation is a dry method.</p>
	<p><u>Mark 2a, dimensions 90/210+114.</u> piece 1</p>
A.4.2	<p>Installation of single-leaf doors, without thresholds, filled with chipboard, and with a fixed transom light, at the entrances to classrooms M1, M6, MPS hall, and tea kitchen K. Frame made of aluminum profiles without interrupted thermal break (cold profiles), in natural aluminum color (RAL 9006). The frame with adjustable aluminum thresholds. The leaf filled with chipboard d=18mm in light Sonoma oak decor (or visual equivalent). The transom glazed with single-pane float glass d=4mm. The doors are equipped with high-quality fittings based on nickel and aluminum alloys, handles, locks, and keys. Installation is done by dry method.</p>
	<p><u>Mark 2, dimensions 90/210+114.</u> piece 4</p>

A.4.3	<p>Installation of a single-leaf door, without a threshold, with an infill made of plywood and a fixed overhead light, at the entrance to classrooms M2, M4, M5. Frame made of AL profile without interrupted thermal bridge (cold profiles), in natural AL color (RAL 9006). Frame with adjustable AL rails. Wing with infill made of univer d=18mm in light Sonoma oak decor (or visual equivalent). Wing with infill made of univer d=18mm in light Sonoma oak decor (or visual equivalent). Overlight glazed with single float glass d=4mm. The doors are equipped with quality fittings based on nickel and AL-alloys, handles, locks and keys. Installation is a dry method.</p>	piece	3
		<u>Mark 3, dimensions 90/210+80.</u>	
A.4.4	<p>Installation of a single-wing door, without a threshold, with an infill made of plywood, at the entrance to classroom M3. Frame made of AL profile without interrupted thermal bridge (cold profiles), in natural AL color (RAL 9006). Frame with adjustable AL rails. Wing with infill made of univer d=18mm in light Sonoma oak decor (or visual equivalent). Wing with infill made of univer d=18mm in light Sonoma oak decor (or visual equivalent). The doors are equipped with quality fittings based on nickel and AL-alloys, handles, locks and keys. Installation is a dry method.</p>	piece	1
		<u>Mark 4, dimensions 90/210.</u>	
A.4.5	<p>Installation of a single-wing door, without a threshold, with an infill made of plywood, at the entrance to: toilets TM, TŽ. Frame made of AL profile without interrupted thermal bridge (cold profiles), in natural AL color (RAL 9006). Frame with adjustable AL rails. Wing with infill from univer d=18mm in light Sonoma oak decor (or visual equivalent), supplied, in the lower part, with 3 circular openings for air intake, with nets. The doors are equipped with quality fittings based on nickel and AL-alloys, handles, locks and keys. Installation is a dry method.</p>	piece	2
		<u>Mark 5, dimensions 70/210.</u>	
A.4.6	<p>Installation of single-leaf doors, without thresholds, filled with chipboard, at the entrance to the anteroom T1. Frame made of aluminum profiles without interrupted thermal break (cold profiles), in natural aluminum color (RAL 9006). The frame with adjustable aluminum thresholds. The leaf filled with chipboard d=18mm in light Sonoma oak decor (or visual equivalent), equipped at the bottom with 3 circular openings for air circulation, with mesh screens. The doors are equipped with high-quality fittings based on nickel and aluminum alloys, handles, locks, and keys. Installation is done by dry method.</p>	piece	1
		<u>Mark 6, dimensions 90/210.</u>	
A.4.7	<p>Fixing the existing facade PVC windows. Calculation per piece.</p>	piece	32

A.5 Tiling works			
A.5.1	Procurement and installation of class I ceramic wall tiles, domestically produced (Momento Ice Rett type or equivalent), dimensions 29.5x59, on adhesive tape, in toilets T, T1, TM, TŽ, up to a height of 2.30 mt, by gluing joint-to-joint. Covered surfaces must be flat and vertical. Installed tiles must be grouted and cleaned.		
	Calculation per m <sup>2</sup> of installed and grouted tiles.	m2	53.50
A.5.2	Procurement and installation of class I ceramic wall tiles, domestically produced (Kashmir Gold type or equivalent), dimensions 29.5x59 cm, on adhesive, in classrooms M2, M3, M4, M5, MPS, by gluing in a joint-on-joint style. Covered surfaces must be flat and vertical. Installed tiles must be grouted and cleaned.		
	Calculation per m <sup>2</sup> of installed and grouted tiles.	m2	13.00
A.5.3	Procurement and installation of class I ceramic wall tiles, domestically produced (Kashmir Silver type or equivalent), dimensions 29.5x59 cm, on adhesive, in kitchenette K, by gluing joint-to-joint. Covered surfaces must be flat and vertical. Installed tiles must be grouted and cleaned.		
	Calculation per m <sup>2</sup> of installed and grouted tiles.	m <sup>2</sup>	4.00
A.5.4	Procurement and installation of class I ceramic wall tiles, domestically produced (Kashmir Silver type or equivalent), dimensions 29.5x59 cm, on adhesive, in kitchenette K, by gluing joint-to-joint. Covered surfaces must be flat and vertical. Installed tiles must be grouted and cleaned.		
	Calculation per m <sup>2</sup> of installed and grouted tiles.	m <sup>2</sup>	11.10
A.5.5	Procurement and installation of class I ceramic floor tiles, domestically produced (Kashmir Silver type or equivalent), dimensions 33x33 cm, on a stick, in kitchen K, by gluing in a joint-on-joint style. Anti-slip and wear-resistant tiles. Prepare the substrate in advance and lay it flat. Grout the installed tiles and clean the floor.		
	Calculation per m <sup>2</sup> of installed and grouted tiles.	m <sup>2</sup>	11.00

A.6	Floring works		
A.6.1	Reparation of the damaged substrate:		
	a.after removing the parquet, in:		
	classrooms M1,2,3,4,5,6 (substrate for PVC electroconductive antistatic floor),	m <sup>2</sup>	272.1
	hall MPS (substrate for electric prov. floor type LVD)	m <sup>2</sup>	72.84
	kitchen K (substrate for new floor tiles).	m <sup>2</sup>	11
	b. after removing the tiles, with toilets T, T1, TM, TŽ (substrate for new floor tiles).	m <sup>2</sup>	11.10
Repair the damage with a suitable quick-drying repair compound with a suitable compressive strength ≥30 MPa. The bidder is obliged to submit the technical sheet of the offered product along with the bid. Calculation per m <sup>2</sup> of repaired screed.			
A.6.2	Applying leveling compound,		
	classrooms M1,2,3,4,5,6 I (substrate for PVC electroconductive antistatic floor).	m <sup>2</sup>	272.10
	sali MPS (substrate for electric prov. floor type LVD)	m <sup>2</sup>	72.84
	After drying, the ecological self-leveling, leveling compound is applied in a layer of no less than 3 mm. After drying the leveling mass, perform fine sanding, cleaning and vacuuming. All necessary material (procurement and transport) is provided by the contractor. (The bidder is obliged to submit the technical sheet of the offered product with the bid). Calculation per m <sup>2</sup> of applied leveling mass.		

A.6.3	<p>Procurement, transport and installation of electrically conductive homogenous vinyl floor covering <math>\geq 2</math> mm thick with IQ PUR protection against wear, stains and dirt that does not require waxing and wet polishing during the life of the product, in classrooms M1,2,3,4,5,6. The floor covering should meet the following minimum technical requirements:</p> <ul style="list-style-type: none"> <li>- use class: <math>\geq 34</math> commercial / 43 industrial according to EN 685,</li> <li>- weight: <math>\leq 2950</math> g/m<sup>2</sup> according to EN 430,</li> <li>- abrasion group: minimum P (<math>\leq 4.0</math> mm<sup>3</sup>) according EN 660,</li> <li>- flammability: Bfl-s1 according to EN ISO 13501-1,</li> <li>- antistatic: <math>&lt; 2</math> kV according to EN 1815,</li> <li>- residual subsidence coefficient: <math>\leq 0.02</math> mm according to EN 433,</li> <li>- resistance to chemicals: according to ISO 26987,</li> <li>- anti-slip: <math>\geq R9</math> according to DIN 51130 and <math>\geq 0.30</math> according to EN 13896,</li> <li>- does not support the growth of bacteria according to ISO 846: part C,</li> <li>- suitable for the use of wheelchairs according to EN 425,</li> <li>- color fastness <math>\geq 6</math> according to ISO 105 -B02</li> <li>- thermal conductivity <math>\geq 0.01</math> m<sup>2</sup> K/W according to EN 12667,</li> <li>- suitable for installation in "clean rooms" - class A according to ASTM F24 F51,</li> <li>- electrical resistance: <math>5 \times 10^4 \Omega</math> to <math>10^6 \Omega</math> according to EN 1081,</li> <li>- Before gluing electroconductive vinyl floor coverings, on the flat surface of the floor stick a copper strip around the perimeter of the room, at a distance of 30-40 cm from the wall, and take the strip to the place intended for grounding.</li> <li>- One place for grounding corresponds to an area of 40m<sup>2</sup>.</li> </ul> <p>In the interior of the grounded perimeter, stick the same copper strips in the direction of the shorter side of the room, at max. distance up to 60 cm, for the total length of the room.</p> <ul style="list-style-type: none"> <li>- Trimming the vinyl floor covering dry, gluing it to the floor with a dispersive, special, electrically conductive and ecological adhesive - with welding of the joints with an electrode in the color of the chosen floor covering.</li> <li>- After welding, bring the joint to an ideal level with the floor.</li> </ul> <p>(The offeror is obliged to submit the technical sheet/attests/certificates with the offer - proof that the technical characteristics of the offered product correspond to the technical requirements, as well as certificates from the aspect of environmental protection). Calculation per m<sup>2</sup> of finished floor area.</p>	m <sup>2</sup>	272.10
A.6.4	<p>Procurement, transport and installation by gluing of the final PVC skirting 20x70x2-PLS0/20, at the end of the vinyl floor covering and the edge of the wall, in classrooms M1,2,3,4,5,6. Gluing should be done with neoprene, contact adhesive, on a previously leveled, clean and dry prepared surface.</p>	m	169.95
	Calculation per m of installed molding.		

A.6.5	Procurement, transport and installation on click, in the hall MPS design board type LVT Click French Oak Desert 33. Board dimension: 17.8 x 121 cm, LVT thickness 6mm, tread thickness 0.55mm, usage class 33, or better.		
	Calculation per m <sup>2</sup> of installed floor.	m <sup>2</sup>	68.45
<hr/>			
A.6.6	Procurement, transport and installation of parquet moldings 60X23X2400 in hall MPS		
	Calculation per m of installed molding.	m	38.36
<hr/>			

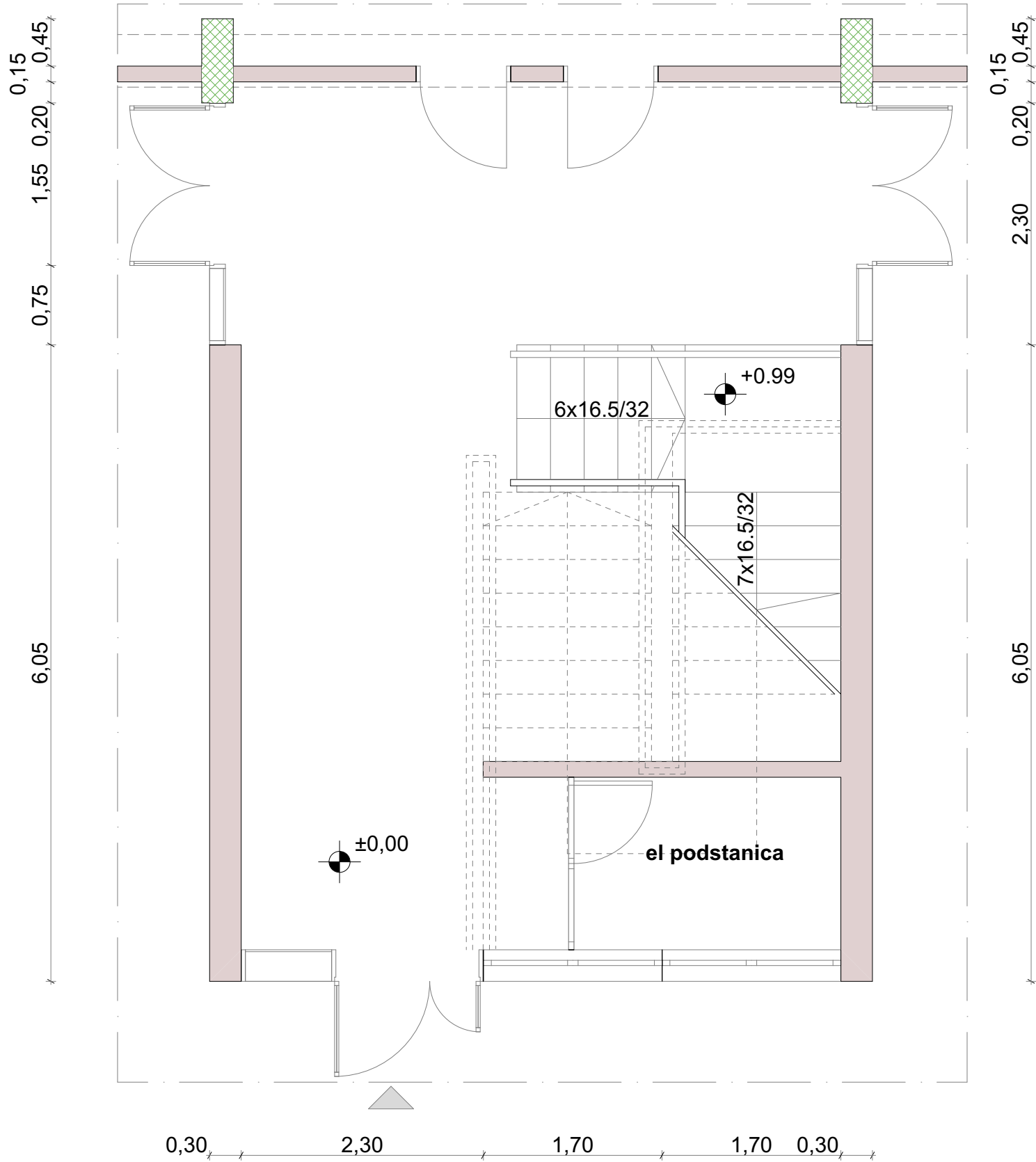
<b>A.7 Plaster works</b>			
A.7.1	Closing the opening for the door between the kitchenette K and the MPS hall. Procurement of materials and installation of a metal substructure 100/40 mm, to which drywall sheets d=25 mm of Knauf type are screwed on both sides (the thickness of the assembly should correspond to the thickness of the wall in which the door opening is). Fill the interspace with glass mineral wool. Bandage the joints of gypsum board.		
	Calculation per m2 of completed works.	m <sup>2</sup>	2.30
A.7.2	Making a box around the lines for the cold fluid, from the external air conditioning unit to the internal one. Pieces 9.		
	Calculation per m2 of completed works.	m	24.00
<b>A.8 Painting works</b>			
A.8.01	Scraping existing paint and smoothing. Cleaning the surface of the walls and applying a suitable primer to fix the new dispersion paint.		
	Calculation per m <sup>2</sup> of completed works.	m <sup>2</sup>	1145.02
A.8.02	Painting of interior walls with washable dispersive paint, roller in two layers, with pre-horn scraping, smoothing and preparation of existing surfaces according to A.09.01. Tone RAL 9018.		
	Calculation per m <sup>2</sup> of completed works.	m <sup>2</sup>	723.44
A.8.03	Painting of interior ceilings with suitable dispersive paint, roller in two layers, with preliminary scraping, smoothing and preparation of existing surfaces according to A.09.01. Tone RAL 9016.		
	Calculation per m <sup>2</sup> of completed works.	m <sup>2</sup>	421.58
<b>A.9 Other works</b>			
A.9.1	Procurement of an electric ramp with an independent motor, for people with mobility difficulties, with mounting on the handrail of the stairs. Height to overcome 3.25m.		
	Calculation per piece	kom	1
A.9.2	Procurement of materials for the production of concrete C 20/25 and concreting of the new horizontal distribution of sewage in toilets T, T1, TM, TŽ. This position includes the extension, by 15 cm each, of two 10 cm floor overhangs, under the toilet bowls, in the TM and TŽ toilets. Pay attention to the bonding of new and old concrete to avoid cracks in the floor.		
	Calculation per m <sup>2</sup> of concreted surface.	m2	3.00

## **GRAPHICAL DOCUMENTATION**



EXISTING CONDITION

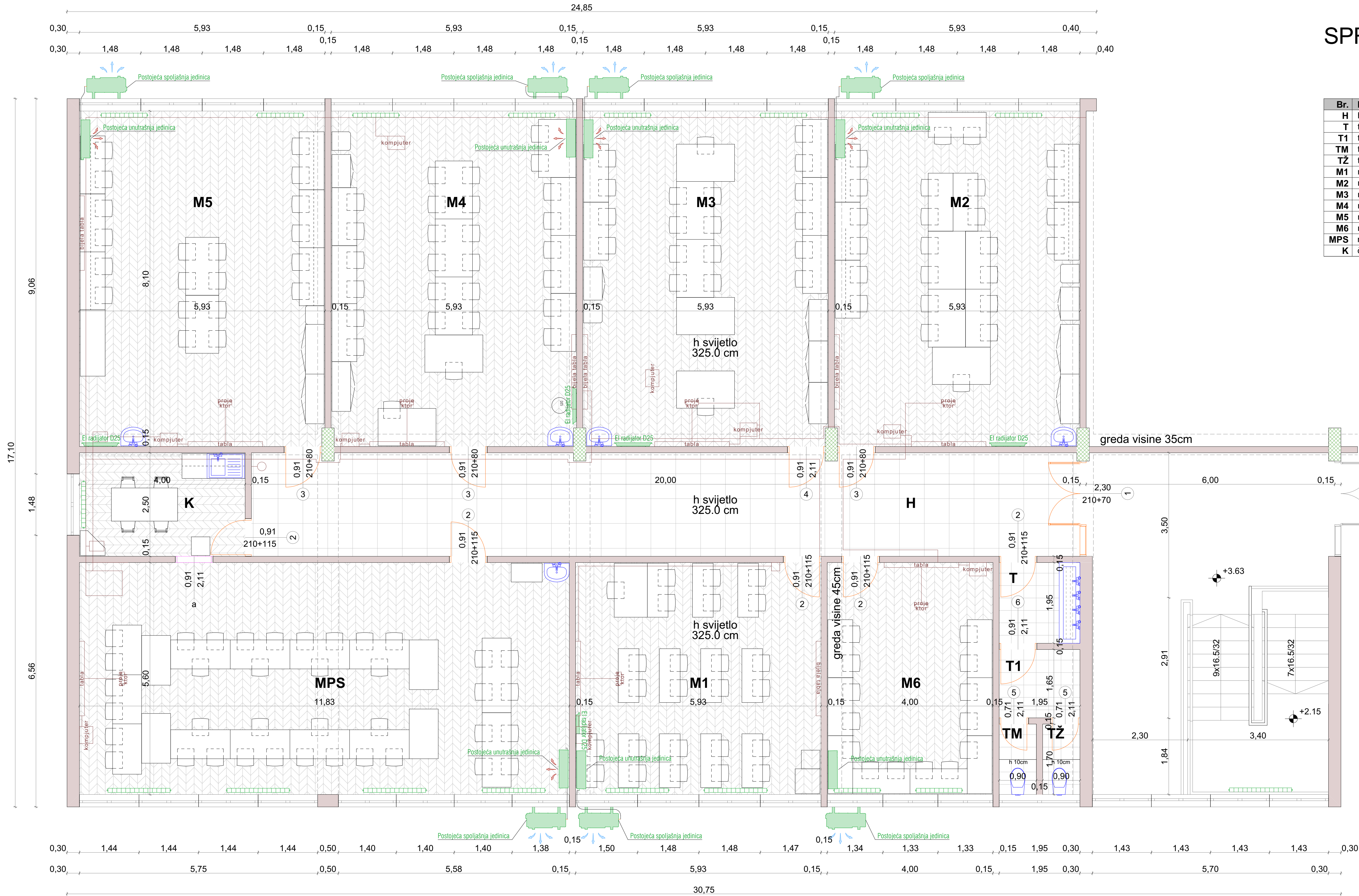
PRIZEMLJE



Legenda	
	ulaz
	zid
	AB stub
	greda

Napomena: Izvođač je dužan da sve mjere provjeri na licu mjesta. Podaci su prikupljani u skladu sa mogućnostima u datom trenutku, pa su određene mjere morale biti pretpostavljene.

PROJEKTANT: DeCom Montenegro d.o.o. Ankarski bulevar br. 16 81000 Podgorica, Montenegro		 INVESTITOR: Western Balkan Six Chamber Investment Forum Piazza della Borsa nr. 14 34121 Trieste, Italy		
Objekat: JU SREDNJA ELEKTROTEHNIČKA ŠKOLA "VASO ALIGRUDIC"		Lokacija: k.p. 1193, KO Podgorica I Opština Podgorica		
Glavni inženjer:	Zagorka Božović Pejanović dipl.ing.arh.	Vrsta tehničke dokumentacije: PROJEKAT ADAPTACIJE DIJELA OBJEKTA		
Odgovorni inženjer:	Zagorka Božović Pejanović dipl.ing.arh.	Dio tehničke dokumentacije: ARHITEKTURA	Razmjera: A2 / 1:50	
Saradnik/ci:		Prilog: Postojeće stanje - prizemlje	Br.priloga: A.01	Br.strane:
Datum izrade i M.P.:		Datum revizije i M.P.:		
Januar, 2024.				



SPRAT

Br.	Prostorija	Pod	Površina	Obim
H	hodnik	kamene ploče	49.63 m <sup>2</sup>	45.00 m <sup>2</sup>
T	toalet pranje ruku	keramičke pločice	3.80 m <sup>2</sup>	7.80 m <sup>2</sup>
T1	toalet predprostor	keramičke pločice	3.22 m <sup>2</sup>	7.20 m <sup>2</sup>
TM	toalet muški	keramičke pločice	1.53 m <sup>2</sup>	5.20 m <sup>2</sup>
TŽ	toalet ženski	keramičke pločice	1.53 m <sup>2</sup>	5.20 m <sup>2</sup>
M1	multifunkc. kabinet	parket	33.18 m <sup>2</sup>	23.06 m <sup>2</sup>
M2	multifunkc. kabinet	parket	47.93 m <sup>2</sup>	28.06 m <sup>2</sup>
M3	multifunkc. kabinet	parket	47.93 m <sup>2</sup>	28.06 m <sup>2</sup>
M4	multifunkc. kabinet	parket	47.93 m <sup>2</sup>	28.06 m <sup>2</sup>
M5	multifunkc. kabinet	parket	47.96 m <sup>2</sup>	28.06 m <sup>2</sup>
M6	multifunkc. kabinet	parket	22.40 m <sup>2</sup>	19.20 m <sup>2</sup>
MPS	multifunkcionalna sala	parket	66.22 m <sup>2</sup>	34.86 m <sup>2</sup>
K	čajna kuhinja	parket	10.00 m <sup>2</sup>	13.00 m <sup>2</sup>

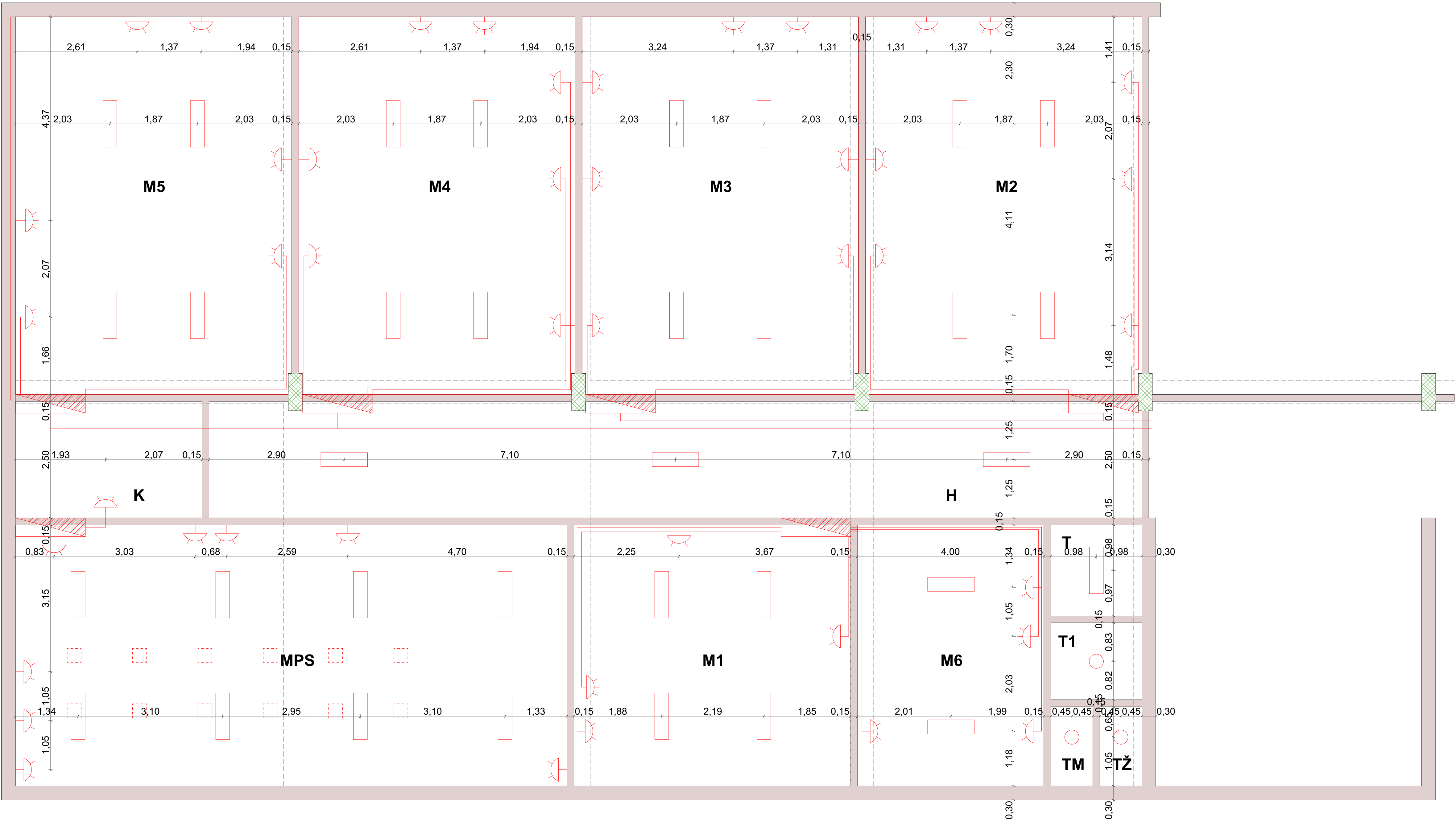
ukupna neto površina 383.25 m<sup>2</sup>

Legenda	
	postojeći parket koji se mijenja
	postojeće pločice
	postojeći namještaj
	postojeća vrata koja se mijenjaju
	postojeća vrata koja se u potpunosti uklanjaju
	elktro instalacije slabe struje
	instalacije vodovala i kanalizacije
	termotehničke instalacije
	zid
	AB stub
	greda

Napomena: Izvođač je dužan da sve mjere provjeri na licu mjesta. Podaci su prikupljeni u skladu sa mogućnostima u datom trenutku, pa su određene mjere morale biti pretpostavljene.

PROJEKTANT: DeCom Montenegro d.o.o. Ankarski bulevar br. 16 81000 Podgorica, Montenegro		INVESTITOR: Western Balkan Six Chamber Investment Forum Piazza della Borsa nr. 14 34121 Trieste, Italy
Objekat: JU SREDNJA ELEKTROTEHNIČKA ŠKOLA "VASO ALIGRUDIĆ"		Lokacija: k.p. 1193, KO Podgorica I Opština Podgorica
Glavni inženjer:	Zagorka Božović Pejanović dipl.ing.arh.	Vrsta tehničke dokumentacije: PROJEKAT ADAPTACIJE DIJELA OBJEKTA - MASINSKI BLOK
Odgovorni inženjer:	Zagorka Božović Pejanović dipl.ing.arh.	Dio tehničke dokumentacije: ARHITEKTURA
Saradnik/ci:		Br.priloga: A.02
Datum izrade i M.P.:		Br.strane: 13.00

PLAFON



Br.	Prostorija	Površina	Obim
H	hodnik	49.63 m <sup>2</sup>	45.00 m <sup>2</sup>
T	toalet pranje ruku	3.80 m <sup>2</sup>	7.80 m <sup>2</sup>
T1	toalet predprostor	3.22 m <sup>2</sup>	7.20 m <sup>2</sup>
TM	toalet muški	1.53 m <sup>2</sup>	5.20 m <sup>2</sup>
TŽ	toalet ženski	1.53 m <sup>2</sup>	5.20 m <sup>2</sup>
M1	multifunc. kabinet	33.18 m <sup>2</sup>	23.06 m <sup>2</sup>
M2	multifunc. kabinet	47.93 m <sup>2</sup>	28.06 m <sup>2</sup>
M3	multifunc. kabinet	47.93 m <sup>2</sup>	28.06 m <sup>2</sup>
M4	multifunc. kabinet	47.93 m <sup>2</sup>	28.06 m <sup>2</sup>
M5	multifunc. kabinet	47.96 m <sup>2</sup>	28.06 m <sup>2</sup>
M6	multifunc. kabinet	22.40 m <sup>2</sup>	19.20 m <sup>2</sup>
MPS	multifunkcionalna sala	66.22 m <sup>2</sup>	34.86 m <sup>2</sup>
K	čajna kuhinja	10.00 m <sup>2</sup>	13.00 m <sup>2</sup>
ukupna neto površina		383.25 m <sup>2</sup>	

Legenda	
	osvjetljenje
	zid
	AB stub
	greda

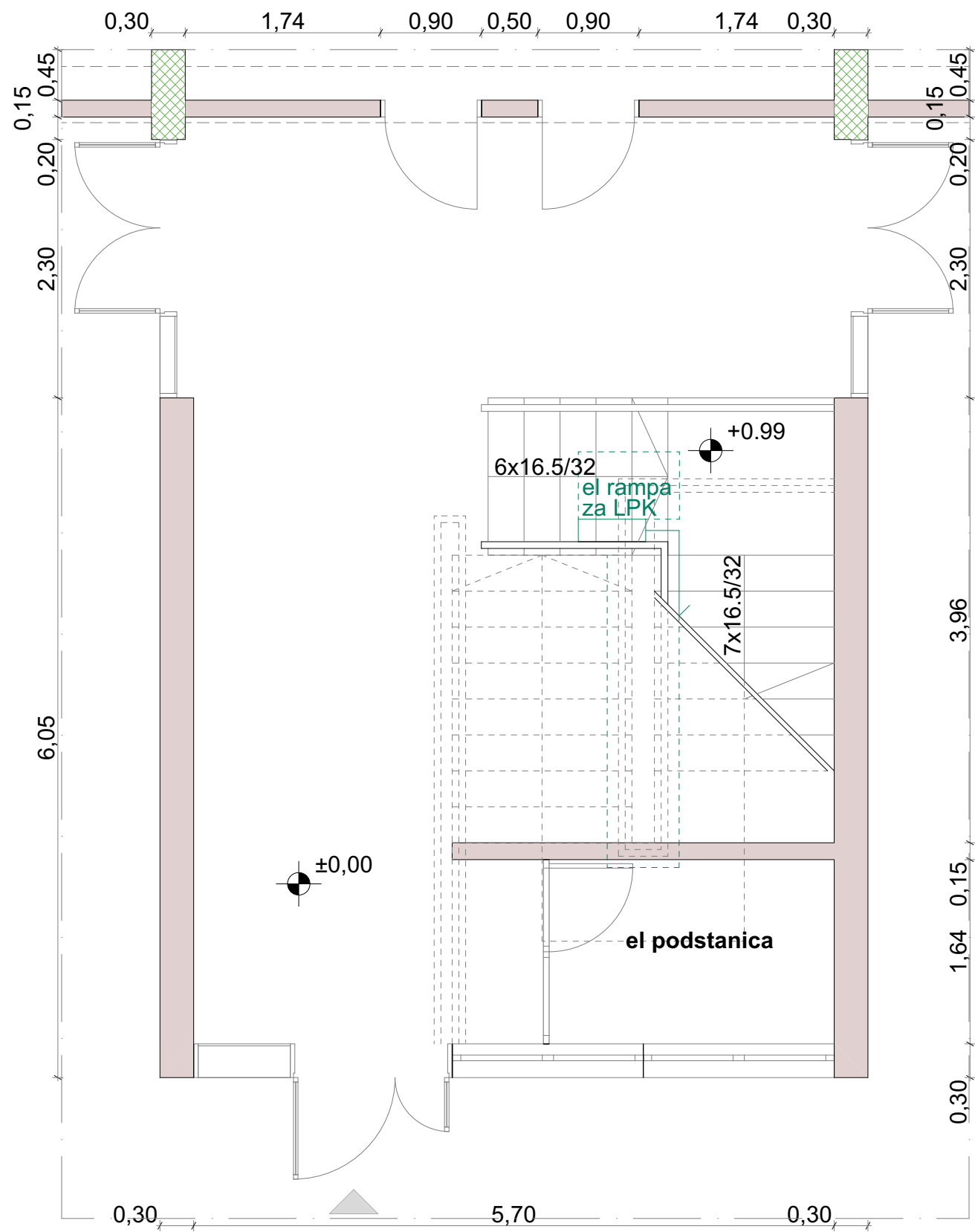
Napomena: Izvođač je dužan da sve mjere provjeri na licu mjesta. Podaci su prikupljeni u skladu sa mogućnostima u datom trenutku, pa su određene mjere morale biti pretpostavljene.

PROJEKTANT: DeCom Montenegro d.o.o. Ankarski bulevar br. 16 81000 Podgorica, Montenegro		 INVESTITOR: Western Balkan Six Chamber Investment Forum Piazza della Borsa nr. 14 34121 Trieste, Italy	
Objekat: JU SREDNJA ELEKTROTEHNIČKA ŠKOLA "VASO ALIGRUDIĆ"		Lokacija: k.p. 1193, KO Podgorica I Opština Podgorica	
Glavni inženjer:	Zagorka Božović Pejanović dipl.ing.arh.	Vrsta tehničke dokumentacije: PROJEKAT ADAPTACIJE DIJELA OBJEKTA - MASINSKI BLOK	
Odgovorni inženjer:	Zagorka Božović Pejanović dipl.ing.arh.	Dio tehničke dokumentacije: ARHITEKTURA	Razmjera: A1 / 1:50
Saradnik/ci:		Polje za stanje - plafon	Br.priloga: A.03
Datum izrade i M.P.:		Datum revizije i M.P.:	
Januar, 2024.			

ADAPTED CONDITION



PRIZEMLJE



Legenda	
	električna rampa za LPK
	ulaz
	zid
	AB stub
	greda

Napomena: Izvođač je dužan da sve mjere provjeri na licu mjesta. Podaci su prikupljeni u skladu sa mogućnostima u datom trenutku, pa su određene mjere morale biti pretpostavljene.

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Objekat: JU SREDNJA ELEKTROTEHNIČKA ŠKOLA "VASO ALIGRUDIĆ"		Lokacija: k.p. 1193, KO Podgorica I Opština Podgorica		
Glavni inženjer:	Zagorka Božović Pejanović dipl.ing.arh.	Vrsta tehničke dokumentacije: PROJEKAT ADAPTACIJE DIJELA OBJEKTA		
Odgovorni inženjer:	Zagorka Božović Pejanović dipl.ing.arh.	Dio tehničke dokumentacije: ARHITEKTURA	Razmjera: A2 / 1:50	
Saradnik/ci:		Prilog: Adaptirano stanje - prizemlje	Br.priloga: B.01	Br.strane:
Datum izrade i M.P.:		Datum revizije i M.P.:		
Januar, 2024.				

SPRAT



Br.	Prostorija	Pod	Površina	Obim
H	hodnik	kamene ploče	49.63 m <sup>2</sup>	45.00 m <sup>2</sup>
T	toalet pranje ruku	keramičke pločice	3.80 m <sup>2</sup>	7.80 m <sup>2</sup>
T1	toalet predprostor	keramičke pločice	3.22 m <sup>2</sup>	7.20 m <sup>2</sup>
TM	toalet muški	keramičke pločice	1.53 m <sup>2</sup>	5.20 m <sup>2</sup>
TŽ	toalet ženski	keramičke pločice	1.53 m <sup>2</sup>	5.20 m <sup>2</sup>
M1	multifunkc. kabinet	PVC elektroprov. antistatik	33.18 m <sup>2</sup>	23.06 m <sup>2</sup>
M2	multifunkc. kabinet	PVC elektroprov. antistatik	47.93 m <sup>2</sup>	28.06 m <sup>2</sup>
M3	multifunkc. kabinet	PVC elektroprov. antistatik	47.93 m <sup>2</sup>	28.06 m <sup>2</sup>
M4	multifunkc. kabinet	PVC elektroprov. antistatik	47.93 m <sup>2</sup>	28.06 m <sup>2</sup>
M5	multifunkc. kabinet	PVC elektroprov. antistatik	47.96 m <sup>2</sup>	28.06 m <sup>2</sup>
M6	multifunkc. kabinet	PVC elektroprov. antistatik	22.40 m <sup>2</sup>	19.20 m <sup>2</sup>
MPS	multifunkcionalna sala	dizajn ploče tipa LVT	66.22 m <sup>2</sup>	34.86 m <sup>2</sup>
K	čajna kuhinja	keramičke pločice	10.00 m <sup>2</sup>	13.00 m <sup>2</sup>

ukupna neto površina 383.25 m<sup>2</sup>

Legenda	
	keramičke pločice
	kamene ploče
	PVC elektroprov. antistatik
	dizajn ploče tipa LVT
	električna rampa za LPK
	namještaj
	uklonjena vrata
	nova vrata
	elktro instalacije slabe struje
	instalacije vodovoda i kanalizacije
	termotehničke instalacije
	zid
	AB stub
	greda

Napomena: Izvođač je dužan da sve mjere provjeri na licu mjesta. Podaci su prikupljeni u skladu sa mogućnostima u datom trenutku, pa su određene mjere morale biti pretpostavljene.

PROJEKTANT: DeCom Montenegro d.o.o. Ankarski bulevar br. 16 81000 Podgorica, Montenegro		INVESTITOR: Western Balkan Six Chamber Investment Forum Piazza della Borsa nr. 14 34121 Trieste, Italy
Objekat: JU SREDNJA ELEKTROTEHNIČKA ŠKOLA "VASO ALIGRUDIĆ"	Lokacija: k.p. 1193, KO Podgorica I Opština Podgorica	
Glavni inženjer: Zagorka Božović Pejanović dipl.ing.arh.	Vrsta tehničke dokumentacije: PROJEKAT ADAPTACIJE DIJELA OBJEKTA - MASINSKI BLOK	
Odgovorni inženjer: Zagorka Božović Pejanović dipl.ing.arh.	Dio tehničke dokumentacije: ARHITEKTURA	Razmjera: A1 / 1:50
Saradnik/ci:	Adaptirano stanje - sprat	Br.priloga: B.02 Br.strane:
Datum izrade i M.P.:	Datum revizije i M.P.:	

PLAFON



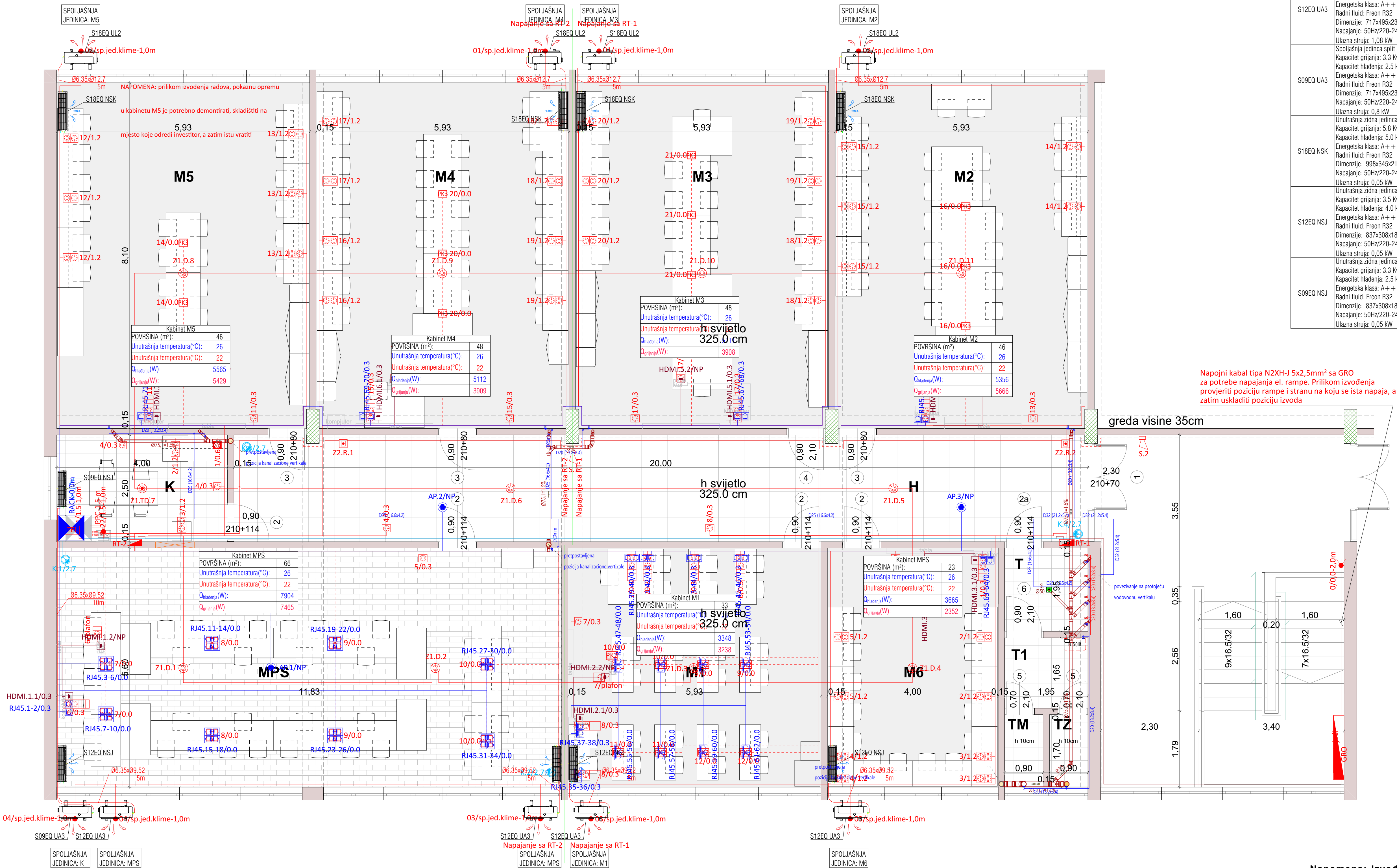
Br.	Prostorija	Površina	Obim
H	hodnik	49.63 m <sup>2</sup>	45.00 m <sup>2</sup>
T	toalet pranje ruku	3.80 m <sup>2</sup>	7.80 m <sup>2</sup>
T1	toalet predprostor	3.22 m <sup>2</sup>	7.20 m <sup>2</sup>
TM	toalet muški	1.53 m <sup>2</sup>	5.20 m <sup>2</sup>
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M2	multifunkc. kabinet	47.93 m <sup>2</sup>	28.06 m <sup>2</sup>
M3	multifunkc. kabinet	47.93 m <sup>2</sup>	28.06 m <sup>2</sup>
M4	multifunkc. kabinet	47.93 m <sup>2</sup>	28.06 m <sup>2</sup>
M5	multifunkc. kabinet	47.96 m <sup>2</sup>	28.06 m <sup>2</sup>
M6	multifunkc. kabinet	22.40 m <sup>2</sup>	19.20 m <sup>2</sup>
MPS	multifunkcionalna sala	66.22 m <sup>2</sup>	34.86 m <sup>2</sup>
K	čajna kuhinja	10.00 m <sup>2</sup>	13.00 m <sup>2</sup>
ukupna neto površina		383.25 m <sup>2</sup>	

Napomena: Izvođač je dužan da sve mjere provjeri na licu mjesta. Podaci su prikupljeni u skladu sa mogućnostima u datom trenutku, pa su određene mjere morale biti pretpostavljene.

PROJEKTANT: DeCom Montenegro d.o.o. Ankarski bulevar br. 16 81000 Podgorica, Montenegro		INVESTITOR: Western Balkan Six Chamber Investment Forum Piazza della Borsa nr. 14 34121 Trieste, Italy	
Objekat: JU SREDNJA ELEKTROTEHNIČKA ŠKOLA "VASO ALIGRUDIĆ"		Lokacija: k.p. 1193, KO Podgorica I Opština Podgorica	
Glavni inženjer:	Zagorka Božović Pejanović dipl.ing.arh.	Vrsta tehničke dokumentacije: PROJEKAT ADAPTACIJE DIJELA OBJEKTA - MASINSKI BLOK	
Odgovorni inženjer:	Zagorka Božović Pejanović dipl.ing.arh.	Dio tehničke dokumentacije: ARHITEKTURA	Razmjera: A1 / 1:50
Saradnik/ci:		Adaptirano stanje - plafon	Br.priloga: B.03
Datum izrade i M.P.:		Datum revizije i M.P.:	
Januar, 2024.			



SYNCHRONIZED PLAN



LEGENDA		
OZNAKA:	OPIS:	KOLIČINA:
S18EQ UL2	Spoljašnja jedinica split sistema tip: S18EQ UL2 proizvod: LG ili ekvivalent	4
	Kapacitet grijanja: 5.8 Kw	
	Kapacitet hlađenja: 5.0 Kw	
	Energetska klasa: A++	
	Radni fluid: Freon R32	
S12EQ UA3	Spoljašnja jedinica split sistema tip: S12EQ UA3 proizvod: LG ili ekvivalent	4
	Kapacitet grijanja: 3.5 Kw	
	Kapacitet hlađenja: 4.0 Kw	
	Energetska klasa: A++	
	Radni fluid: Freon R32	
S09EQ UA3	Spoljašnja jedinica split sistema tip: S09EQ UA3 proizvod: LG ili ekvivalent	1
	Kapacitet grijanja: 2.5 Kw	
	Kapacitet hlađenja: 3.3 Kw	
	Energetska klasa: A++	
	Radni fluid: Freon R32	
S18EQ NSK	Unutrašnja zidna jedinica split sistema tip: S18EQ NSK proizvod: LG ili ekvivalent	4
	Kapacitet grijanja: 5.8 Kw	
	Kapacitet hlađenja: 5.0 Kw	
	Energetska klasa: A++	
	Radni fluid: Freon R32	
S12EQ NSJ	Unutrašnja zidna jedinica split sistema tip: S12EQ NSJ proizvod: LG ili ekvivalent	4
	Kapacitet grijanja: 3.5 Kw	
	Kapacitet hlađenja: 4.0 Kw	
	Energetska klasa: A++	
	Radni fluid: Freon R32	
S09EQ NSJ	Unutrašnja zidna jedinica split sistema tip: S09EQ NSJ proizvod: LG ili ekvivalent	1
	Kapacitet grijanja: 2.5 Kw	
	Kapacitet hlađenja: 3.3 Kw	
	Energetska klasa: A++	
	Radni fluid: Freon R32	

LEGENDA SIMBOLA	
Simbol	Opis
	RACK ormar
	RJ-45 Cat.6 modularna utičnica 1M
	Access point
	HDMI utičnica 1M
	Unutrašnja Dome kamera
	Protiv požarna centrala
	Telefonska dojava požara
	Optički detektor požara
	Termički detektor požara
	Unutrašnja sirena
	Ručni javljač požara

LEGENDA PROVOĐNIKA	
Simbol	Opis
	S/FTP cat.6 LSZH provodnik
	HDMI provodnik
	S/FTP cat.6 LSZH provodnik za kamere
	J-H(S)H FE180/E90 2x2x0.8mm provodnik
	J-H(S)H FE180/E90 2x2x0.8mm provodnik

Napomena:  
Prilikom izvođenja radova utvrditi da li je bolje RACK ormar i PP centralu prebaciti sa druge strane zida tj. u drugu prostoriju "multifunkcionalna sala". Ukoliko se izvrši ta izmjena sve ostale instalacije ostaju na projektovanim pozicijama, jedina je promjena pozicioniranje RACK ormara i PP centrale.



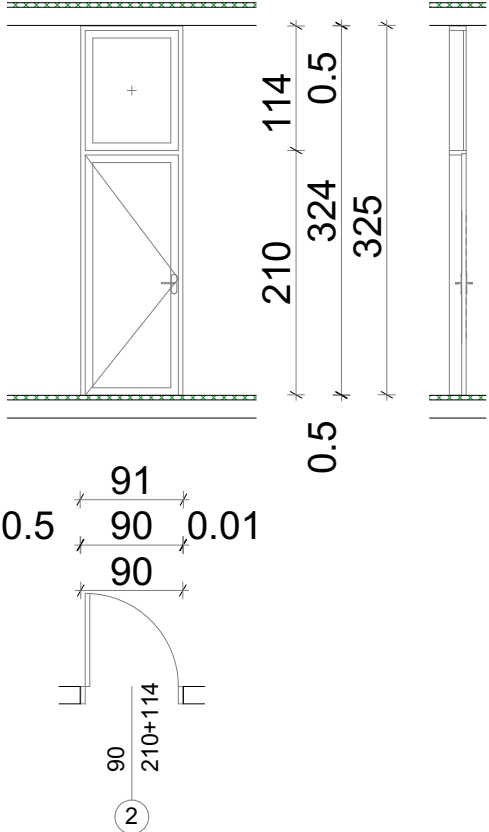
Napomena: Izvođač je dužan da sve mjere provjeri na licu mjesta. Podaci su prikupljeni u skladu sa mogućnostima u datom trenutku, pa su određene mjere morale biti pretpostavljene.

PROJEKTANT: DeCom Montenegro d.o.o. Ankarski bulevar br. 16 81000 Podgorica, Montenegro	INVESTITOR: Western Balkan Six Chamber Investment Forum Piazza della Borsa nr. 14 34121 Trieste, Italy
Objekat: JU SREDNJA ELEKTROTEHNIČKA ŠKOLA "VASO ALIGRUDIC"	Lokacija: k.p. 1193, KO Podgorica I Opština Podgorica
Glavni inženjer:	Vrsta tehničke dokumentacije: PROJEKAT ADAPTACIJE DIJELA OBJEKTA - MASINSKI BLOK
Odgovorni inženjer:	Dio tehničke dokumentacije: ARHITEKTURA
Saradnik/ci:	Prilog: Sinhron plan
Datum izrade i M.P.:	Datum revizije i M.P.:



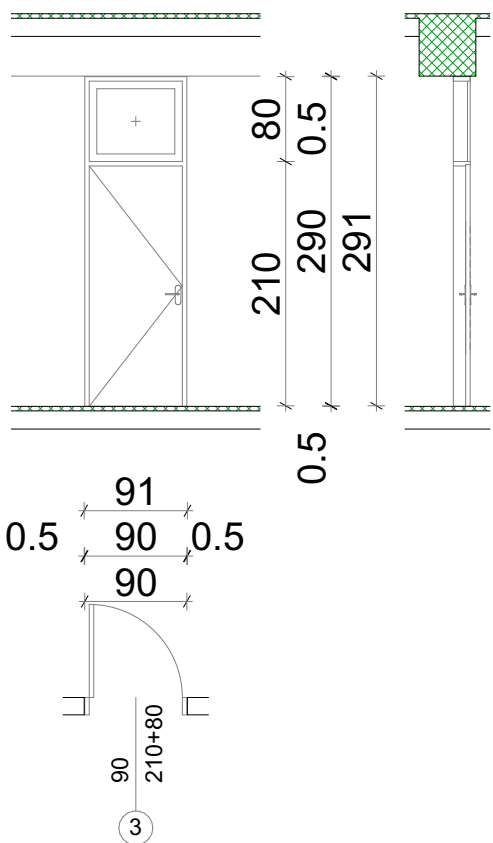
## SCHEMES OF OPENINGS - INTERNAL DOORS

PROJEKAT ADAPTACIJE DIJELA OBJEKTA JU SREDNJA ELEKTROTEHNIČKA ŠKOLA "VASO ALIGRUDIĆ"		SPECIFIKACIJA UNUTRAŠNJIH VRATA	OZNAKA	1
ŠEMA:				
<div><p>Technical drawing of an internal door assembly. The drawing includes a front elevation, a side elevation, and a detail of the door handle. The front elevation shows a door with a transom and a side elevation shows the door's profile. Dimensions are provided in millimeters: front elevation width is 230mm (160mm opening + 70mm frame), height is 210mm (180mm opening + 30mm frame) with a total of 280mm. Side elevation shows a total height of 281mm. A detail of the door handle is shown at the bottom left with dimensions 230mm and 210+70mm.</p></div>				
ZIDARSKA MJERA		231 / 281		NAPOMENA: MJERE UZETI NA LICU MJESTA
OPIS	<p>FIKSNA ZASTAKLJENA AL STIJENA SA DVOKRILNIM VRATIMA, BOČNOM FIKSNOM PARTIJOM I NADSVJETLOM PODIJELJENIM SA TRI VERTIKALNE PREČKE</p> <p>Unutrašnja stijena od aluminijumskih profila bez prekinutog termomosta (hladni profili) ("Alumil M9400" ili ekvivalent), u izvedbi sa klasičnim aluminijumskim ramom. AL u boji natur (RAL 9006).</p> <p>Kompletna stijena sa dvokrilnim vratima, fiksniom partijom i nadsvjetlima je zastakljena jednostrukim sigurnosnim višeslojnim "pamplex" staklom 3.3.1. d=6mm.</p> <p>Stijena je opremljena kvalitetnim okovima na bazi nikla i AL- legura ("Winkhaus Activ Pilot", "Fapim" ili tehnički ekvivalent), ručkama, bravama i ključevima.</p>			
MJESTO UGRADNJE:		SPRAT		A.03
UKUPNO:		1		1

PROJEKAT ADAPTACIJE DIJELA OBJEKTA JU SREDNJA ELEKTROTEHNIČKA ŠKOLA "VASO ALIGRUDIĆ"		SPECIFIKACIJA UNUTRAŠNJIH VRATA	OZNAKA	2a
ŠEMA:		<div><div><div><div></div><div>desna</div></div><div><div></div><div>lijeva</div></div></div><div>1</div></div>		
<div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></d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

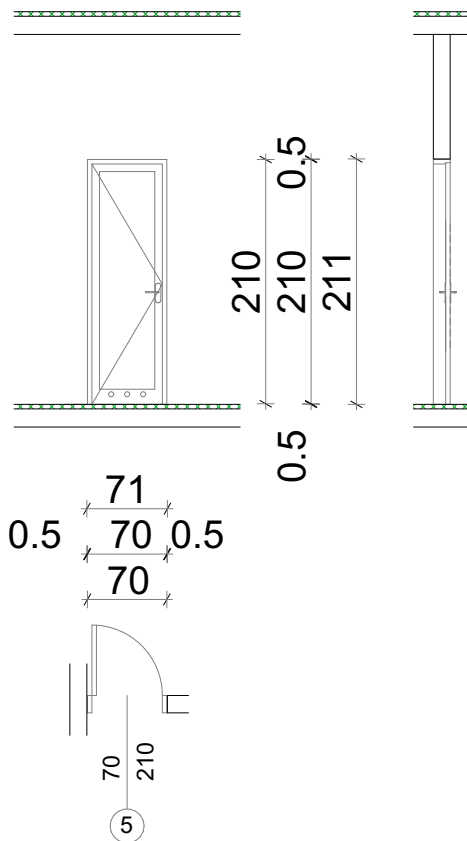
PROJEKAT ADAPTACIJE DIJELA OBJEKTA JU SREDNJA ELEKTROTEHNIČKA ŠKOLA "VASO ALIGRUDIĆ"		SPECIFIKACIJA UNUTRAŠNJIH VRATA	OZNAKA	2
ŠEMA:		<div><div> desna 2</div><div> lijeva 2</div></div>		
<div><div></div></div>				
ZIDARSKA MJERA		91 / 325		NAPOMENA: MJERE UZETI NA LICU MJESTA
OPIS	<p>JEDNOKRILNA AL VRATA SA NADSVJETLOM</p> <p>Ugradnja jednokrilnih vrata sa ispunom od univera i fiksnim nadsjvetlom, na ulazu u učionice M1, M6, sale MPS i čajnu kuhinju K.</p> <p>Ram od AL profila bez prekinutog termomosta (hladni profili) ("Alumil M9400" ili ekvivalent), u boji natur AL (RAL 9006). Ram sa štelujućim AL pervajzima.</p> <p>Krilo sa ispunom od univera d=18mm u dekoru svijetli Sonoma hrast (ili vizuelni ekvivalent).</p> <p>Nadsjvetlo zastakljeno jednostrukim float staklom d=4mm.</p> <p>Vrata su opremljena kvalitetnim okovima na bazi nikla i AL- legura ("Winkhaus Activ Pilot", "Fapim" ili tehnički ekvivalent), ručkama, bravama i ključevima.</p>			
MJESTO UGRADNJE:		SPRAT		A.03
UKUPNO:		4		3



PROJEKAT ADAPTACIJE DIJELA OBJEKTA JU SREDNJA ELEKTROTEHNIČKA ŠKOLA "VASO ALIGRUDIĆ"		SPECIFIKACIJA UNUTRAŠNJIH VRATA	OZNAKA	3
ŠEMA:		<div><div><div></div><div>desna</div><div>1</div></div><div><div></div><div>lijeva</div><div>2</div></div></div>		
<div><div></div></div>				
ZIDARSKA MJERA		91 / 291	NAPOMENA: MJERE UZETI NA LICU MJESTA	
OPIS	<p>JEDNOKRILNA AL VRATA SA NADSVJETLOM</p> <p>Ugradnja jednokrilnih vrata sa ispunom od univera i fiksnim nadsjvetlom, na ulazu u učionice M1, M6, sale MPS i čajnu kuhinju K.</p> <p>Ram od AL profila bez prekinutog termomosta (hladni profili) ("Alumil M9400" ili ekvivalent), u boji natur AL (RAL 9006). Ram sa štelujućim AL pervajzima.</p> <p>Krilo sa ispunom od univera d=18mm u dekoru svijetli Sonoma hrast (ili vizuelni ekvivalent).</p> <p>Nadsjvetlo zastakljeno jednostrukim float staklom d=4mm.</p> <p>Vrata su opremljena kvalitetnim okovima na bazi nikla i AL- legura ("Winkhaus Activ Pilot", "Fapim" ili tehnički ekvivalent), ručkama, bravama i ključevima.</p>			
MJESTO UGRADNJE:		SPRAT		A.03
UKUPNO:		3		4

PROJEKAT ADAPTACIJE DIJELA OBJEKTA JU SREDNJA ELEKTROTEHNIČKA ŠKOLA "VASO ALIGRUDIĆ"		SPECIFIKACIJA UNUTRAŠNJIH VRATA	OZNAKA	4
ŠEMA:		<div><div><div></div><div>desna</div></div><div><div></div><div>lijeva</div></div><div>1</div></div>		
<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><d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PROJEKAT ADAPTACIJE DIJELA OBJEKTA JU SREDNJA ELEKTROTEHNIČKA ŠKOLA "VASO ALIGRUDIĆ"		SPECIFIKACIJA UNUTRAŠNJIH VRATA	OZNAKA	5
ŠEMA:		<div><div><div>desna</div><div>1</div></div><div><div>lijeva</div><div>1</div></div></div>		
<div></div>				
ZIDARSKA MJERA		71 / 211		NAPOMENA: MJERE UZETI NA LICU MJESTA
OPIS	<p>JEDNOKRILNA AL VRATA, NA MOKROM ČVORU</p> <p>Ugradnja jednokrilnih vrata sa ispunom od univera, na ulazu u u toalete TM, TŽ.</p> <p>Ram od AL profila bez prekinutog termomosta (hladni profili) ("Alumil M9400" ili ekvivalent), u boji natur AL (RAL 9006). Ram sa štelujućim AL pervajzima.</p> <p>Krilo sa ispunom od univera d=18mm u dekoru svijetli Sonoma hrast (ili vizuelni ekvivalent), snabdijeveno, u donjem dijelu, sa 3 kružna otvora za cug vazduha, sa mrežicama</p> <p>Vrata su opremljena kvalitetnim okovima na bazi nikla i AL- legura ("Winkhaus Activ Pilot", "Fapim" ili tehnički ekvivalent), ručkama, bravama i ključevima.</p>			
MJESTO UGRADNJE:		SPRAT		A.03
UKUPNO:		2		6

PROJEKAT ADAPTACIJE DIJELA OBJEKTA JU SREDNJA ELEKTROTEHNIČKA ŠKOLA "VASO ALIGRUDIĆ"		SPECIFIKACIJA UNUTRAŠNJIH VRATA	OZNAKA	6
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