Setting up of the EU HOUSE

EUINFONET/SER/01/2023

Main Design for supply with works

SETTING UP OF THE EU HOUSE

03 HYDROTECHNIC INSTALLATIONS

Belgrade, 08.12.2023

A project implemented by:

eptisa

3.2. TECHNICAL DOCUMENTATION

TECHNICAL DESCRIPTION OF HYDROTECHNIC INSTALLATIONS

The subject of the project is the investment maintenance of three existing toilets in the Progress Gallery building located in the basement of the existing facility, with a floor of finished flooring at a relative altitude of -3.00.

DESCRIPTION OF EXISTING STATE
Three existing toals are equipped with one toilet and one sink. Existing toilets are in a long state and this project processes the replacement of existing water, sewer pipes of sanitary devices and accessories.

PROJECTED STATE DESCRIPTION
In accordance with the investor's request, an investment maintenance project has been made. Maintenance is done in existing gabarites and volumes.
Construction and pre-calculation of the works are calculated to dismantle existing pipelines and sanitation with transportation and disposal to the investor-designated landfill.
The projected state envisions replacing existing pipes and sanitation with new ones, with the purpose of toilet 1 to toilets tailored to the use of persons with disabilities.

PLUMBING INSTALLATIONS
Insight into the current state of hydrotechnical installations has been established to be the supply of sanitary water from the building's existing sanitary water network.
After smashing and removing ceramic tiles and breaking into the wall, the newly projected pipeline will be attached to the existing one.
Two plugins to the water network will be performed with polypropylene (PPR) of the nominal (external) diameter of DN25mm.
Just behind each of the two ports, a wall bandwidth valve with a diameter of DN25mm with a rosetta will be installed, enabling the closure of the water supply to the newly projected part of the network (in each toilet separately).
Water divorce is run in the gops in the wall, at 50cm above the floor' cot, to projected water points with polypropylene tubes (PPR) of the name (external) diameter from DN20mm to DN25mm. Hot water pipes are run 10cm above the cold water pipes.
Sanitary water is heated using three low-mounted electric water heaters, volumes of 10 litres.
An "EC" valve is mounted in front of each of the sanitary devices, ensuring a smooth water supply of all sanitary devices during the removal of malfunctions in certain hot spots. Above the sink is a mounted battery with two flexible (brinox) intestines.
Applied pipe material is the internal divorce of the sanitary water network is made of pipes from PPR (polypropylene-EN- ISO 15874).
The plumbing in the facility is designed to lead water to all the spills.

FECAL SEWER

It is designed to take used water from toilets to the existing fecal sewer network. Two plugins are designed to the existing fecal sewer of the facility DN110mm.

Two existing ventilation verticals with diameter of DN110mm are retained through which the sewer network will be ventied after completion.

The pre-order and pre-calculation of the works envisions the demolition of the existing floor line with loading into the vehicle, transporting it to the landfill, determined by the investor and the dislocation of dismantled pipes.

Because it is a public use toilet, floor sinks with a built-in boob and brass-tym grille with meth chrome surface DN75mm are designed to take water away from the havaric and accidental water leak and to clean the floor.Below and around the gutter, hydroinsulation and connections to the hydroinsulation floor are projected.

Two ports are projected to be projected on to the existing sewer.

The sewage in the facility is designed from pipes and phase pieces made from hard polyvinylchloride (PVC), JUS. G.C6.509., and the prank pieces of USS. G.C6.508. This material was chosen because it is waterproof, as well as rubber seals on the joints. The pipe combination's upside down.

SANITARY EQUIPMENT AND ACCESSORIES

Sanitary devices are designed:

two WC toilet a simplon, with a floor drain with a "soft" board and a low-altitude toilet for wall installation;

console WC toilet tailored for use of disabled persons with a "soft" board and suburban toilet with steel construction and a single-wheel metal Cr-Ni key for activating rinse with a savings stop function;

dvs consoles of sanitary ceramics, with a battery hole, gradient and siphon and cork;

console sink made of sanitary ceramics, with a battery hole, gradient and spill over the boob and cork, tailored to the use of persons with disabilities;

mirror in frame dimensions 60x80 cm- two standard and one custom to use of persons with disabilities;

three sensor-embedded one-hand faucets and

three low-mounted electric water heaters (boiler) volume 10l with plugged pipes. One is mounted beneath a sink tailored to persons with disabilities and two under the sink in the men's and women's restrooms.

All sanitary equipment and accessories are first class, defined by standards and tested by the manufacturer, and the colors envisioned in the architectural project were obtained with consultation with the supervisory body and with its consent. All other descriptions of the works and materials are given in the text of the premeres and pre-calculations with this project.

3.4 DRAWINGS

List of drawings

Name of drawing	Drawing label	Drawing scale
Basement plan	01	1:50
Axonometric view of hydrotechnic installations	02	1:50

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CLIENT: Delegation of the European Union to the Republic of Serbia Ul. Milentija Popovica 40, Novi Beograd	DESIGN TYPE: MAIN DESIGN
TITL: Investment maintenance and furnishing of space in the building and gallery "Progres" 8-10 Zmaj Jovina Street, Belgrade	RESPONSIBLE DESIGNER: Olja V. Jovanovic MArch. Licence No.300 3542 03
DESIGN TYPE 3-HIDROTECHNICAL INSTALLATIONS DESIGN	DESIGNER ASSISTANTE:

DRAWING NAME:	Scale	Drawing No.	Date	Page No
BASEMENT PLAN	1:50	124/23-H	12. 2023.	01

TOILET 1
(FOR DISABLED)

TOILETS 2 and 3

LEGEND:

HDPE	HIGH DENSITY POLYETHYLENE PIPE
PPR	POLYPROPYLENE PIPE
EGV	ELECTRIC WATER HEATER
UM	SINK
WC	WC WACHER
1/4	LOAD UNIT
Σ6.5 J.P.	SUM OF LOAD UNITS
——	COLD WATER
——	HOT WATER

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DRAWING NAME:	Scale	Drawing No.	Date	Page No
AXONOMETRIC VIEW OF INSTALLATIONS	1:50	124/23-H	12. 2023.	02