

DESIGN TASK

"Fire station on Berezynská Street in Dnipro"

1. Name and location of the object:

Name of the building: Fire station on Berezynská Street in Dnipro.

2. Customer information:

Main Directorate of the State Rescue Service of Ukraine in the Dnipropetrovsk region.

3. Design phase:

Preliminary design.

4. Characteristics of the projected object:

The fire station will be designed according to an individual project. The approximate size of the land is 0.35 ha, flat, undeveloped. Groundwater level is below 10 m. Land subsidence type - 2 (total subsidence up to 20 cm).

Fire warehouse for 5 specialized fire trucks with necessary accessories, working and living spaces according to the calculation (according to appendix no. 1 of the assignment).

The total area of the fire depot is approximately 3000 m².

5. Design order:

Preliminary design, detailed design.

6. Engineering support:

The fire station should have its own heat source - a gas roof boiler. Connection to municipal engineering networks in accordance with the technical conditions of municipal engineering services.

7. Basic requirements for structural solutions and materials:

- foundations - reinforced concrete driven piles (based on geological conditions);
- supporting structures - mixed system, prefabricated floors;
- masonry walls, external insulation - ROCWOOL or equivalent;
- plaster - drive;
- facade systems made of composite materials, stoneware, alucobond, raspan;
- partitions - aerated concrete, plasterboard;
- stairs and landings - monolithic, reinforced concrete.

8. Basic requirements for technical equipment:

- modern equipment with the possibility of centralized automatic control;
- central air conditioning.

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Attachment 1

Design task

List of work and auxiliary spaces of the fire station
on Berezynská Street in Dnipro.

№ п/п	Name of establishment	Approximate area m square
1	Garage	300
2	Maintenance allowance	100
3	Car washing	100
4	Unit communication point	16
5	Hardware room	20
6	Radio operator's rest room	6
7	Workshop maintenance station	15
8	Dining room	7
9	Control room	13
10	Entrance hall	24
11	Security room	9
12	Cloakroom	15
13	Dryer tops	4
14	Repair of fire hoses	8
15	Washing fire hoses	7
16	Fire hose drying shaft	12
17	Instructor's room	20
18	Tangible property warehouse	11
19	Shower room	8
20	Column descent shaft	4
21	Bathroom	-
22	Utility room	-
23	Shift Manager's Office	15
24	Room for another shift	72
25	Room for inspection, washing, drying and storage of instruments	22
26	Workshop for the repair of instrumentation and control equipment	19
17	Room for storage and charging of regeneration cartridges	5
18	Oxygen filling station	6
19	Training room	36
20	Dining room	16
21	Kitchen	20
22	Room for washing dishes	10
23	Utility room	-
24	Food pantry	10
25	Staff room	4
26	Showers for employees	4
27	Fire hose warehouse	-
28	Wardrobe for street, home and work clothes with washroom	72
29	A room for relaxation	33
30	Office, reception	7
31	Fire Station Commander's Office	18
32	Office of the Deputy Fire Station Commander	9

33	Chamber of Deputies	70
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