HOSPITAL ROTARY

PARKING

Website: www.fdiangopermanente.pt/index.html
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FDIA HOSPITAL ROTARY PARKING

- A rotary parking will be built near a hospital and will improve the quality of service, reducing waiting times, traffic and stress for visitors and healthcare workers. It is a modern and functional solution that responds to mobility needs in healthcare settings.

ROTARY PARKING 100 VEHICLES - UNDERGROUND PARKING 2.500 M²

ROTARY PARKING FOR AIR AMBULANCE PARKING

TRADITIONAL AIR-AMBULANCE HOSPITAL PARKING

SMART PARKING AIR-AMBULANCE FOR HOSPITAL

- THIS FEASIBILITY STUDY EVALUATES THE TECHNICAL, FINANCIAL, AND OPERATIONAL VIABILITY OF A MULTI-LEVEL ROTARY PARKING SYSTEM DESIGNED FOR AIR AMBULANCES NEAR A HOSPITAL FACILITY. THE PROPOSED SOLUTION AIMS TO ENHANCE EMERGENCY RESPONSE EFFICIENCY, OPTIMIZE SPACE UTILIZATION, AND REDUCE HELICOPTER GROUND HANDLING TIME.
- SCOPE OF THE FUTURE WORK
- ENGINEERING DESIGN: STRUCTURAL, MECHANICAL, AND ELECTRICAL DESIGN OF THE ROTARY SYSTEM.
- CONSTRUCTION & INSTALLATION: SITE PREPARATION, SYSTEM ASSEMBLY, AND COMMISSIONING.
- OPERATIONAL INTEGRATION: TRAINING, AUTOMATION, AND HOSPITAL CONNECTIVITY.

Design Considerations

- Structure: Multi-level, automated rotary platform capable of storing 6-12 helicopters.
- Materials: High-strength steel, reinforced concrete base, weather-resistant coatings.
- Mechanism: Motorized turntable with hydraulic lifts and automated retrieval system.
- Safety Features: Anti-slip surfaces, emergency braking, load distribution analysis.
- Integration: Direct access to hospital helipads and emergency transport routes.

A ROTARY PARKING FOR AMBULANCE HELICOPTERS NEAR A HOSPITAL IS A STRATEGIC SOLUTION TO IMPROVE SPACE MANAGEMENT AND OPTIMIZE EMERGENCY TIMES.

- 1. Positioning Strategy
- It must be located near the emergency room to reduce patient transfer times.
- It must have direct access to the hospital, possibly with dedicated corridors or elevators for critical patients.

A ROTARY PARKING NEAR A HOSPITAL OFFERS MANY ADVANTAGES FOR BOTH PATIENTS AND HEALTHCARE WORKERS. HERE ARE SOME ASPECTS THAT IMPROVE CONVENIENCE:

- **1. Space Optimization**
- Hospitals have a high influx of vehicles (patients, visitors, doctors, nurses).
- A rotary vertical parking allows you to maximize the available space, especially in congested urban areas.
- It reduces the need to build underground or extended horizontal parking lots.

- **2. Speed and Efficiency**
- Automated systems reduce the time spent searching for parking.
- The vehicle is picked up and dropped off in a few minutes, useful for those with emergencies or medical appointments.
- Less traffic congestion around the hospital.
- **3. Greater Accessibility**
- Perfect for those with reduced mobility, thanks to the possibility of parking without having to walk for a long time.
- It can be integrated with elevators or dedicated paths to facilitate the transport of people with mobility difficulties.
- **4. Security and Protection**
- Reduces the risk of theft or damage to cars, since the vehicle is kept inside the system.
- Less exposure to atmospheric agents (rain, snow, excessive sun), preserving the condition of the vehicles.
- **5. Lower Environmental Impact**
- Reduction of traffic and CO_2 emissions, since it avoids driving around looking for parking.
- Possibility of integrating eco-friendly systems, such as solar panels for electricity supply.
- **6. Scalable and Innovative Solution**
- It can be adapted to the needs of the hospital, with different levels and capacities.
- Ideal for expanding healthcare facilities or in areas with limited space.

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ROTARY PARKING

Rotary Parking (RP) – Ideal Solution

Rotary Parking is a patented, licensed, and certified solution that offers a warranty. It provides multiple benefits, including green protection, energy savings, and time efficiency. Additionally, it has marketing potential and a modular construction that allows for relocation if needed.

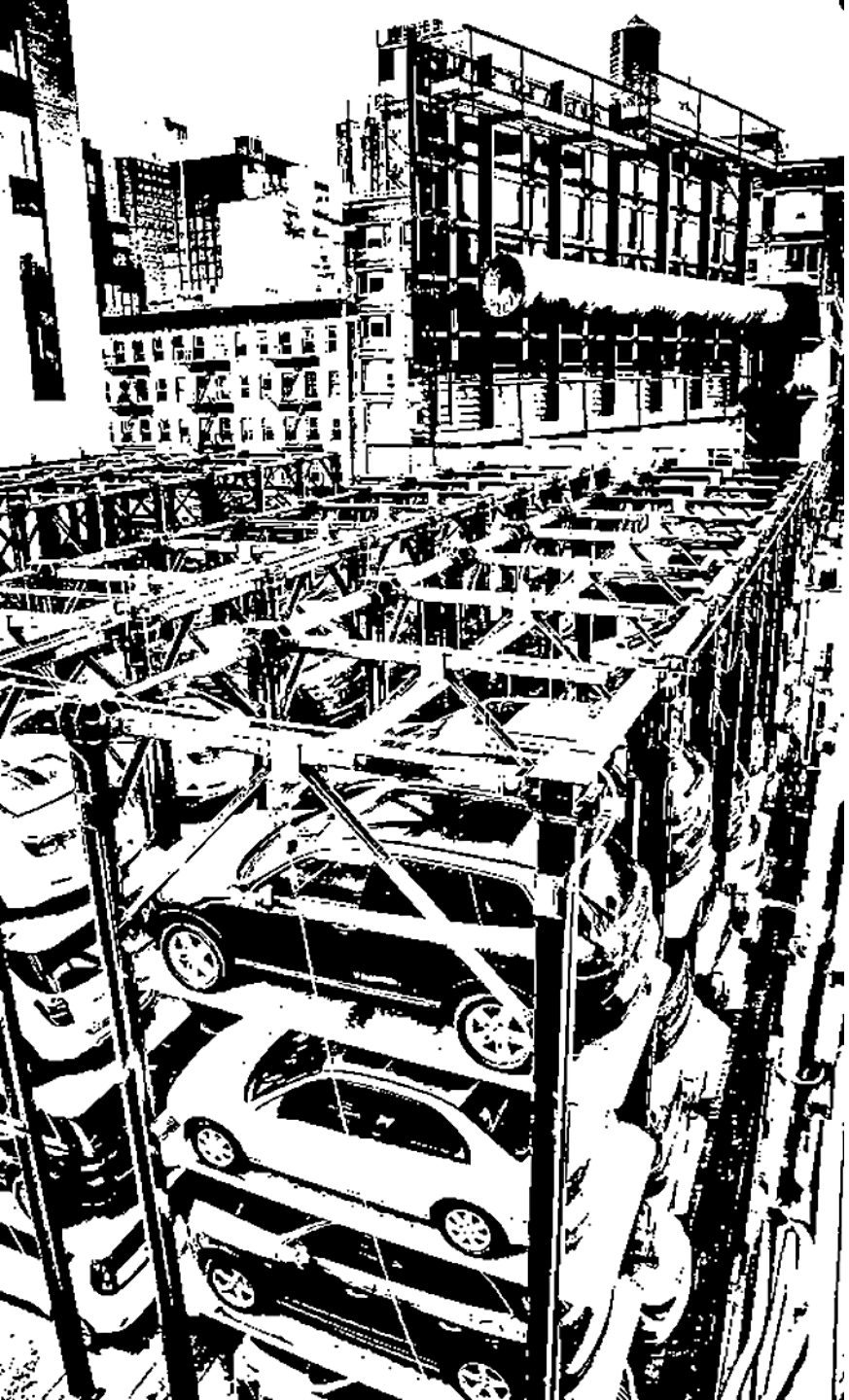
Integration with Different Settings

Rotary Parking can be integrated into both natural and urban settings. The smart parking facade can blend seamlessly with nature by incorporating greenery or align with an urban environment by matching modern architectural styles.

Space Comparison for Parking

A comparison of different parking solutions for 100 vehicles shows the efficiency of Rotary Parking:

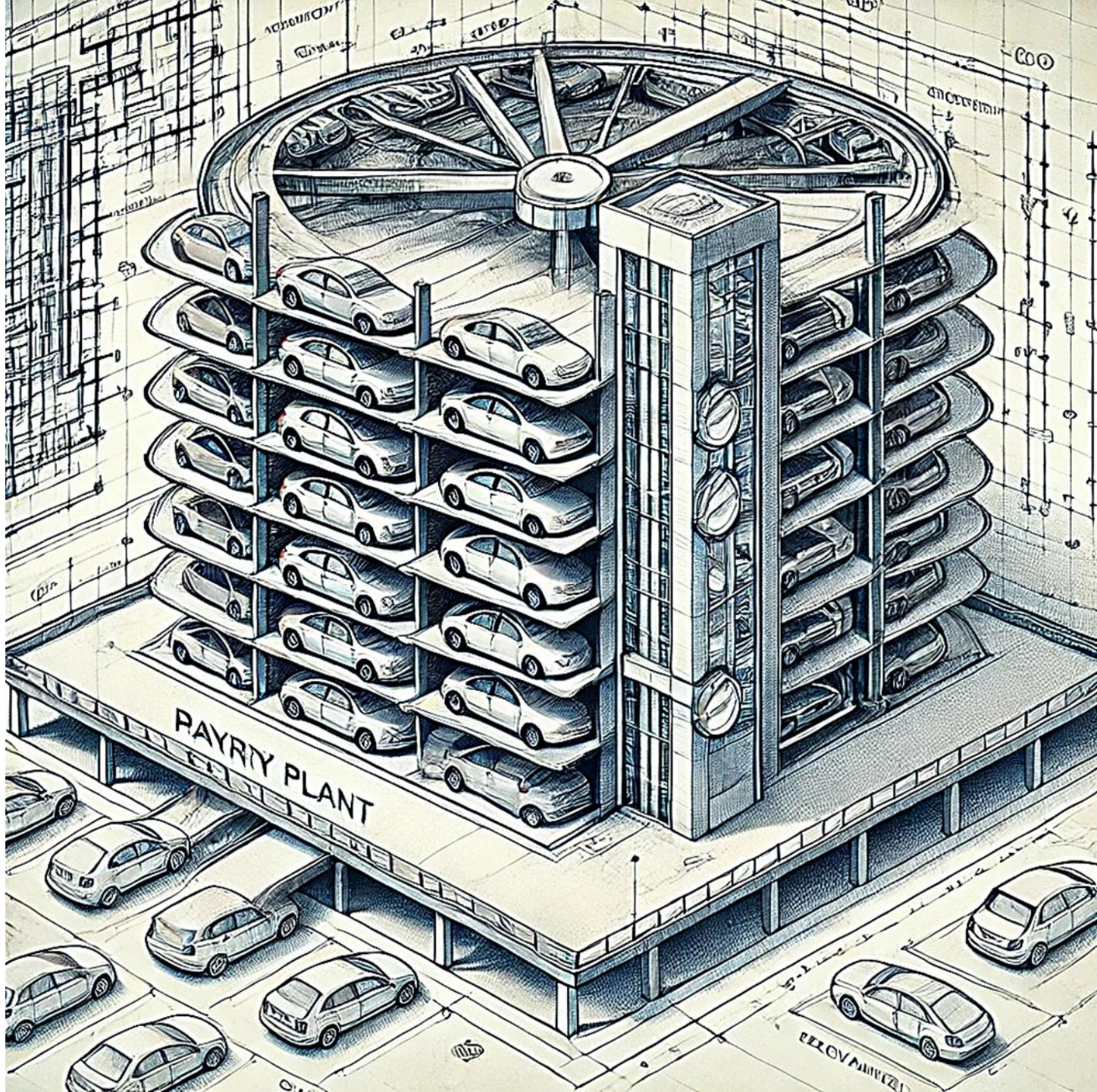
- Open space parking: Requires approximately 3,000 m².
- Underground parking: Requires around 2,500 m².
- Rotary Parking: Requires only 216 m² for 96 vehicles.



Rotary Parking offers an expedited solution to the growing lack of parking spaces in urban areas. By utilizing a mix of human capital, IoT, and automation, this system optimizes productivity and service efficiency. The market for such a solution is expected to grow significantly due to increasing vehicle numbers and insufficient parking infrastructure.

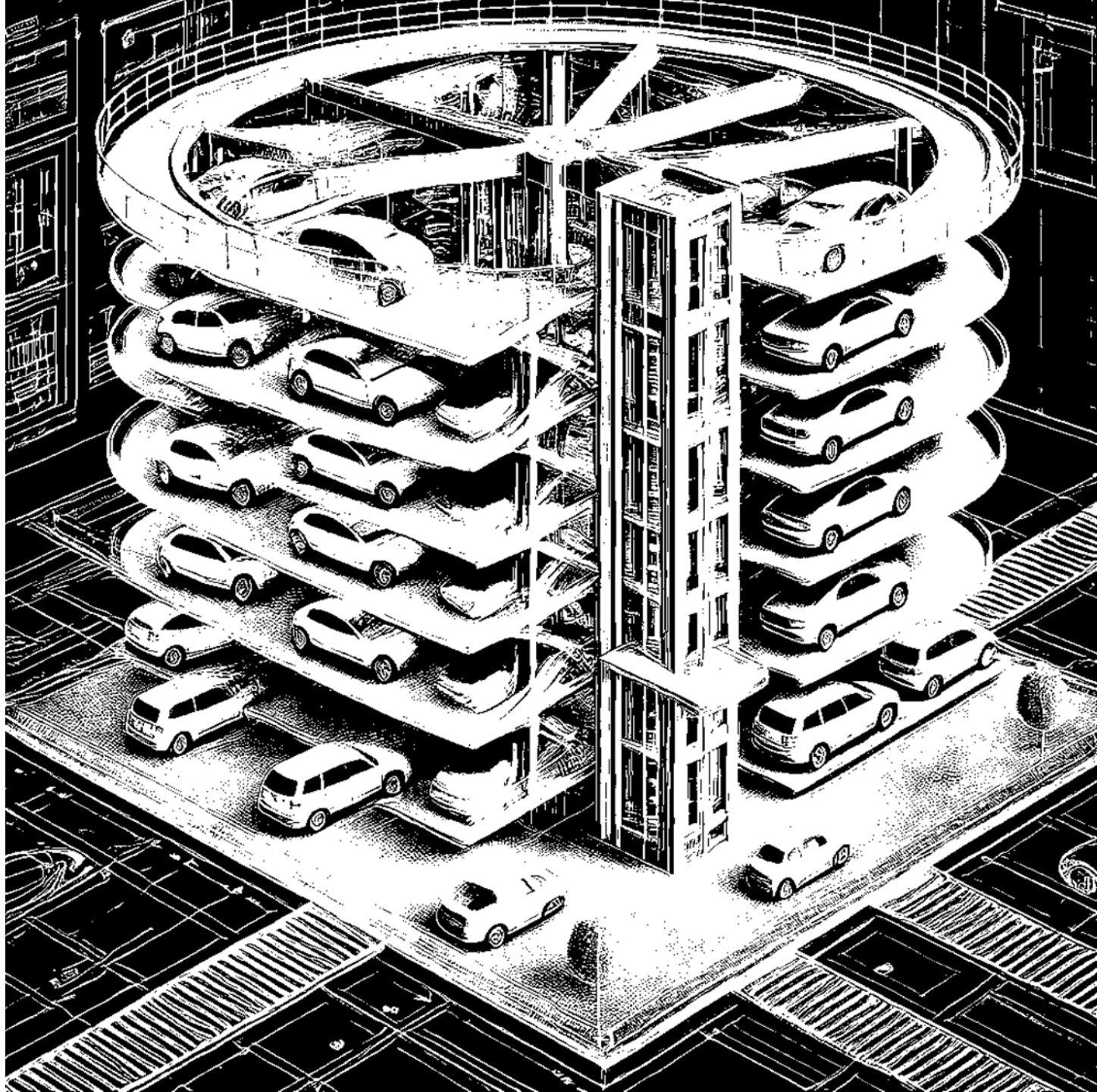
- The concept encourages cooperation among central and local authorities, private businesses, and the general population. The initial phase will establish 200 Rotary Parking the units will accommodate maybe total of 2,400 vehicles.

- Accessibility and Inclusion
- The project could include the creation of accessible parking for people with disabilities, ensuring dedicated spaces and technological solutions to facilitate the use of the service.
- The inclusion of disadvantaged categories in the design and management process of the service could be promoted (elderly, people with reduced mobility, etc.).



- **OPEN SPACE PARKING:** REQUIRES APPROXIMATELY 3,000 M².
- **UNDERGROUND PARKING:** REQUIRES AROUND 2,500 M².
- **ROTARY PARKING:** REQUIRES ONLY 216 M² FOR 96 VEHICLES.

- Creating Job Opportunities for Disadvantaged Groups
- The project involves hiring 108 workers for the management and maintenance of parking lots. An association could collaborate to insert people in difficulty into the job market, such as:
- Young unemployed
- People with disabilities



PHARMA 1 HUMANITAS
HEALTH – BEAUTY- HI-TECH

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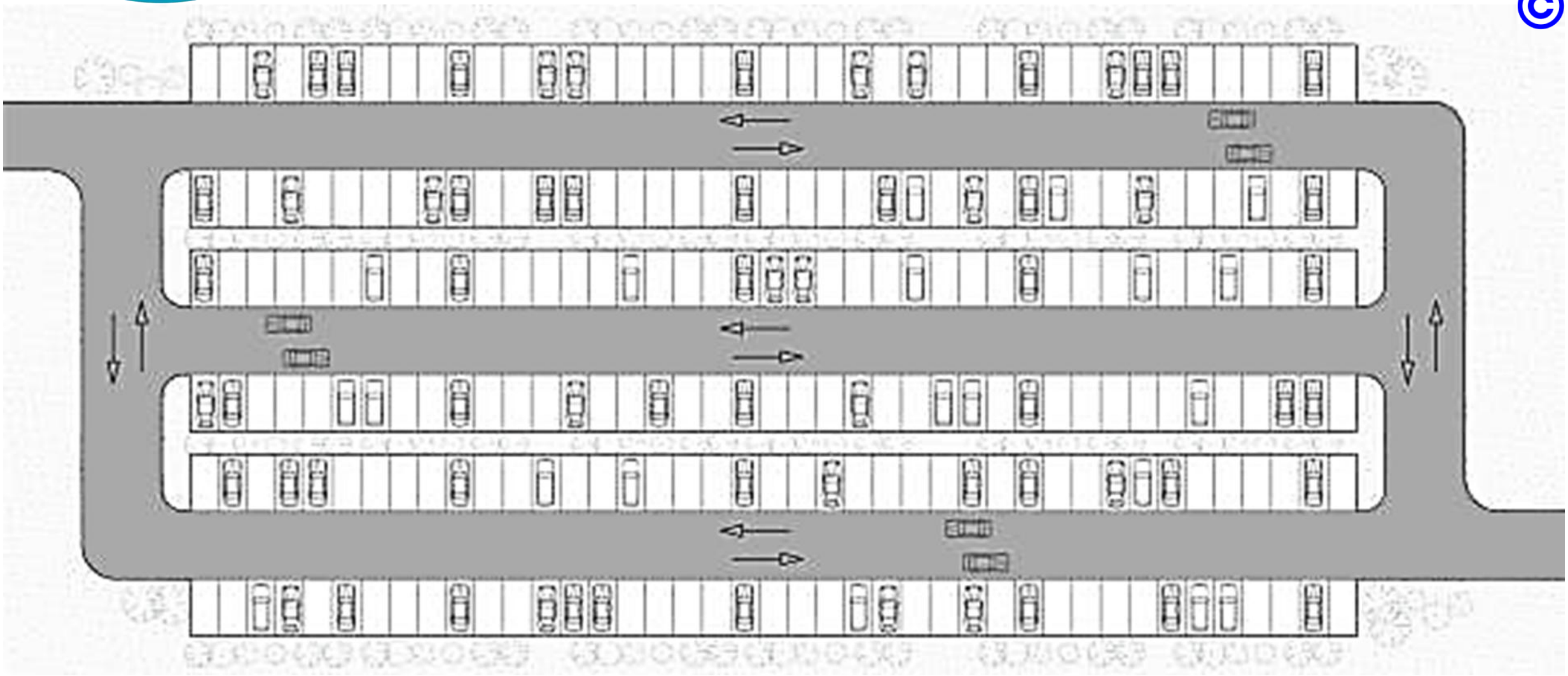

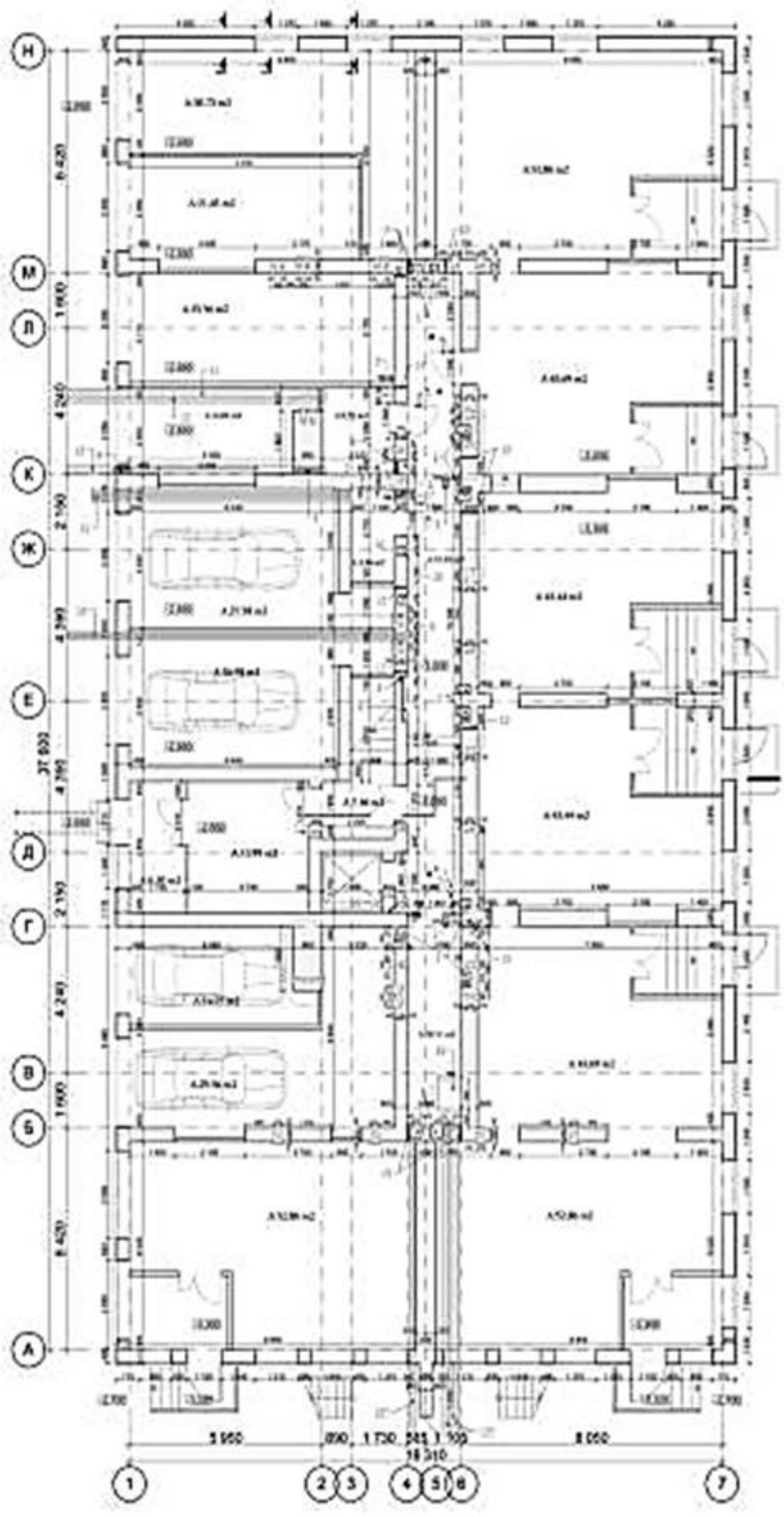
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