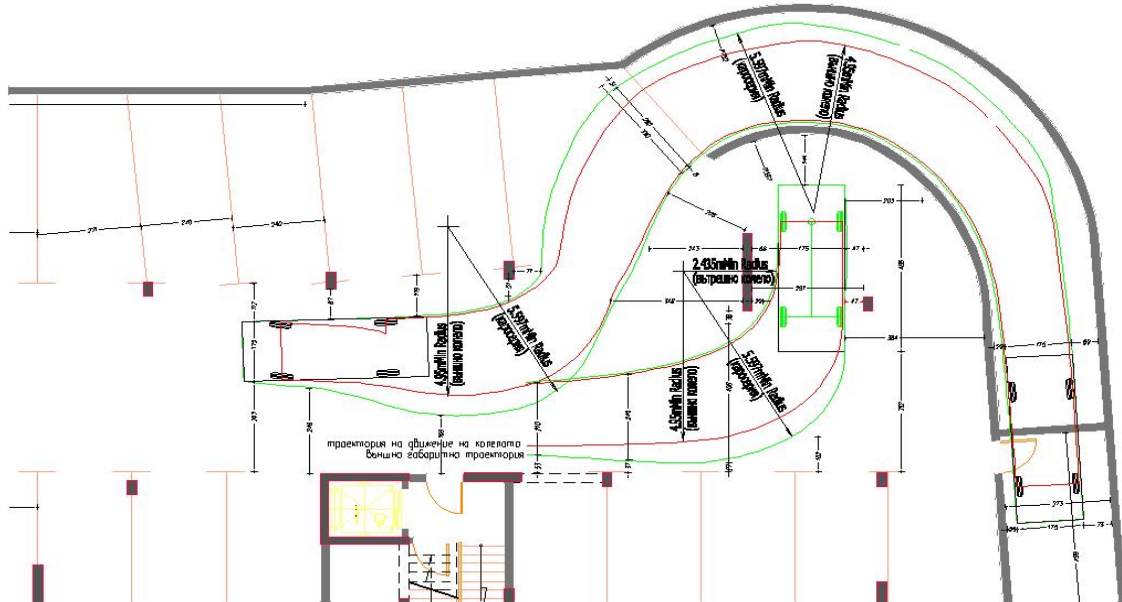


## Garages and Parking of a Residential Building with Offices and Shops



The purpose of the task was to prepare and justify a design solution for garage and parking spaces for the purposes of servicing a residential building.

The sufficiency of maneuvering space is established using specialized software (AutoTrack 8.02), which traces out the movements of a cinematic pre-selected vehicle with defined dimensions, and more precisely the trajectories of the body and wheels of the car. On the basis of these trajectories the room for maneuvering and the necessary area for parking maneuvering are established.

In view of the purposes and functioning of the building and the acting regulations an average vehicle for Europe for the purposes of parking and garage movements simulation was selected. The

vehicle model chosen was Volvo 440. The simulated maneuvers were forward driving at 5 km/h.

The following simulations were carried out:

- parking in the lowest height clearance;
- parking at the bottom of the car park.

The study (based on cinematic pre-selected car with defined dimensions) found that the designed building meets the requirements in terms of parking and garage space for average European car.

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