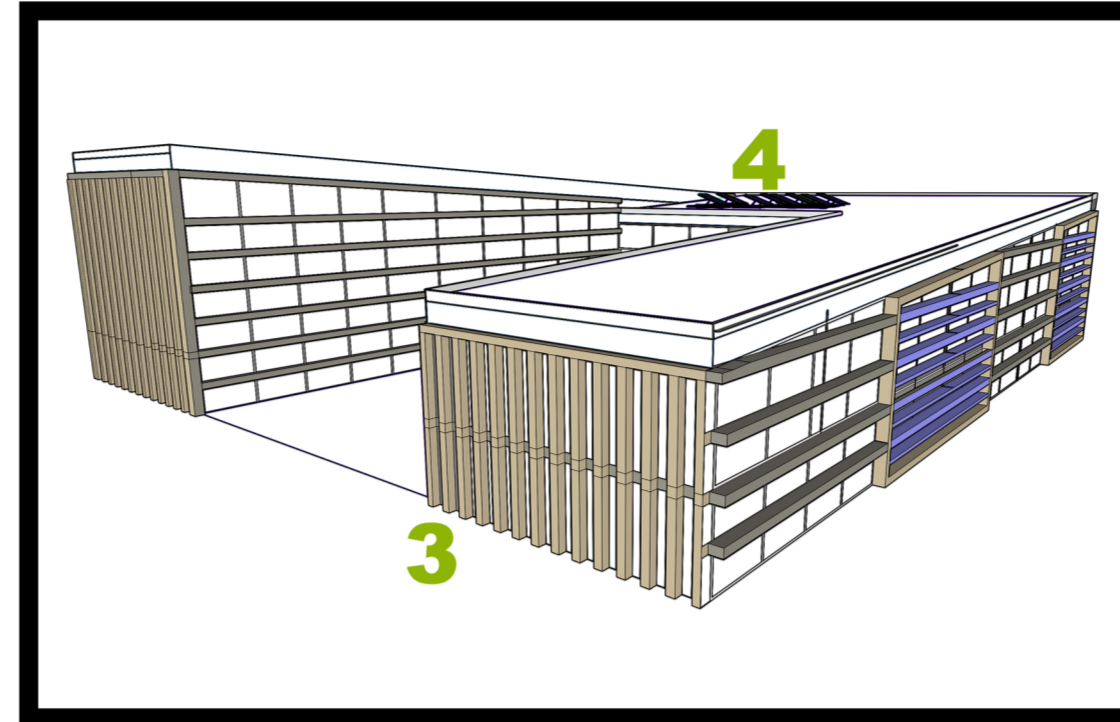
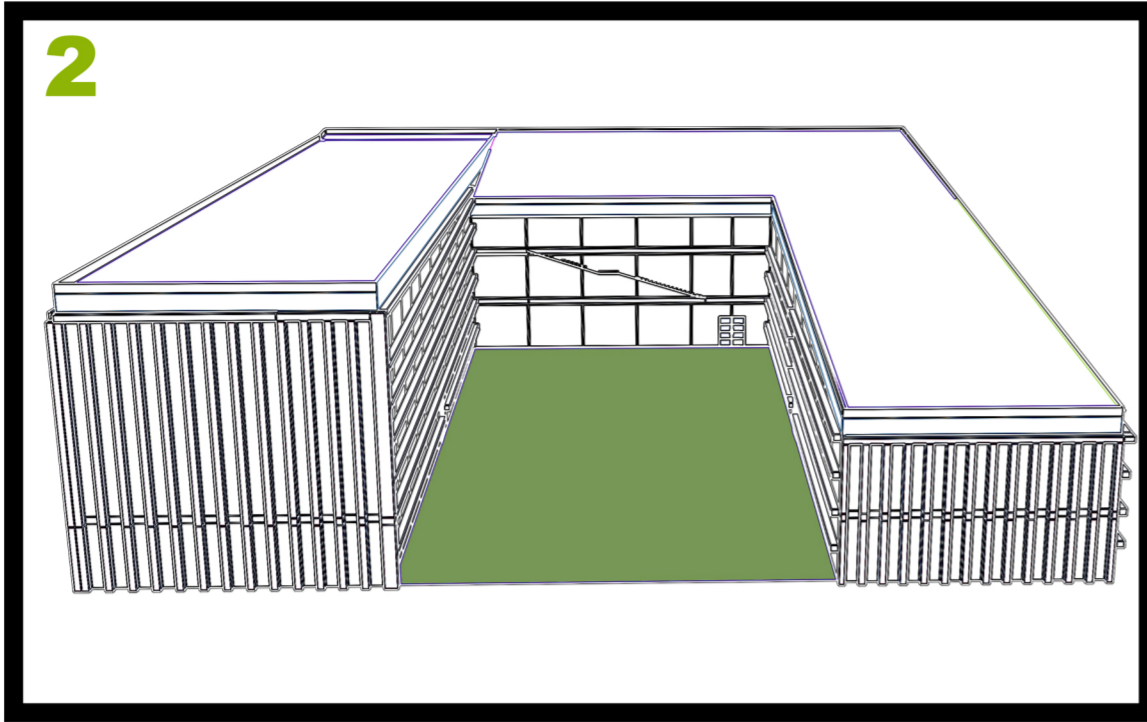


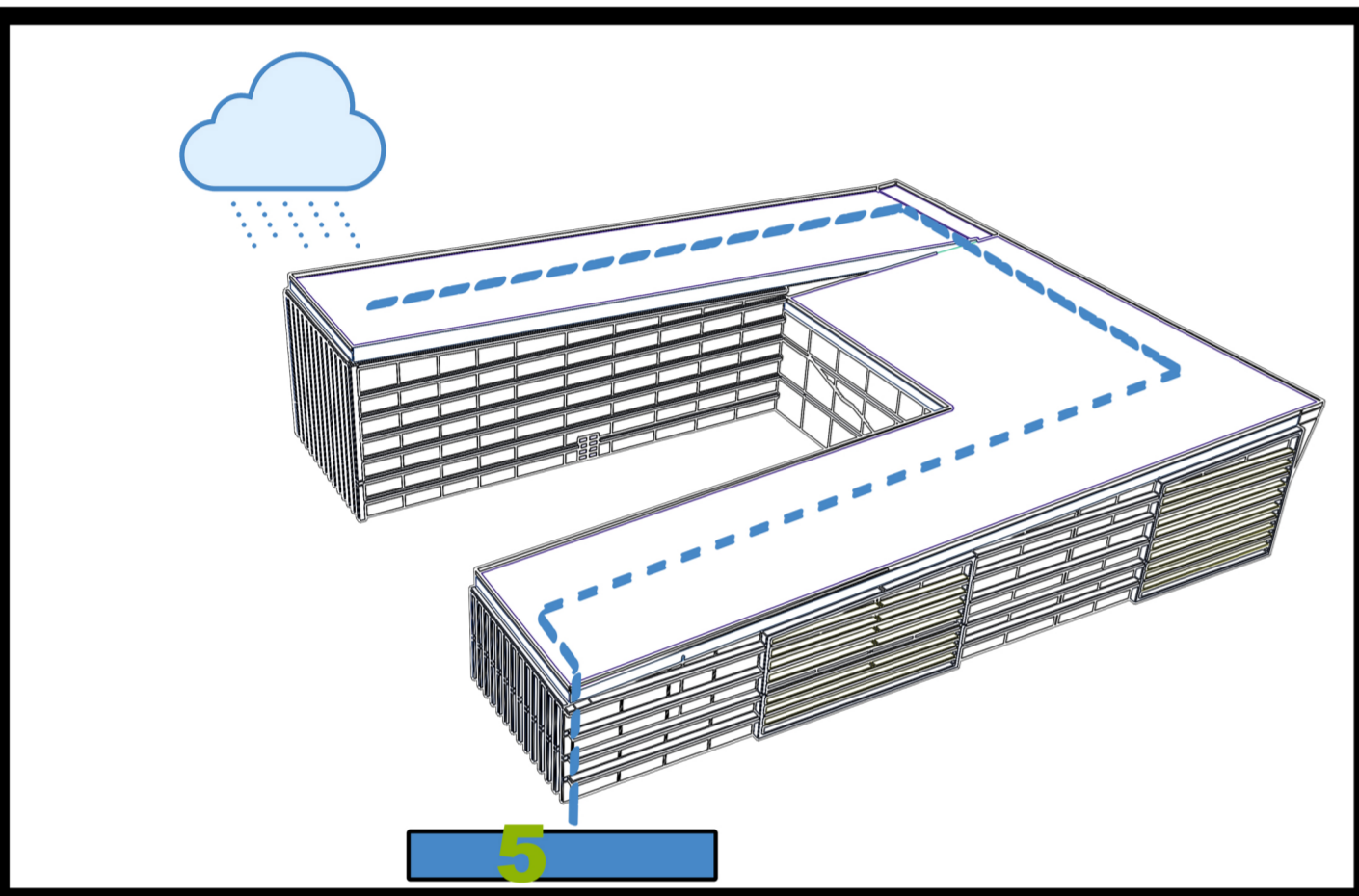
SUSTAINABILITY STRATEGIES

NEARLY ZERO ENERGY

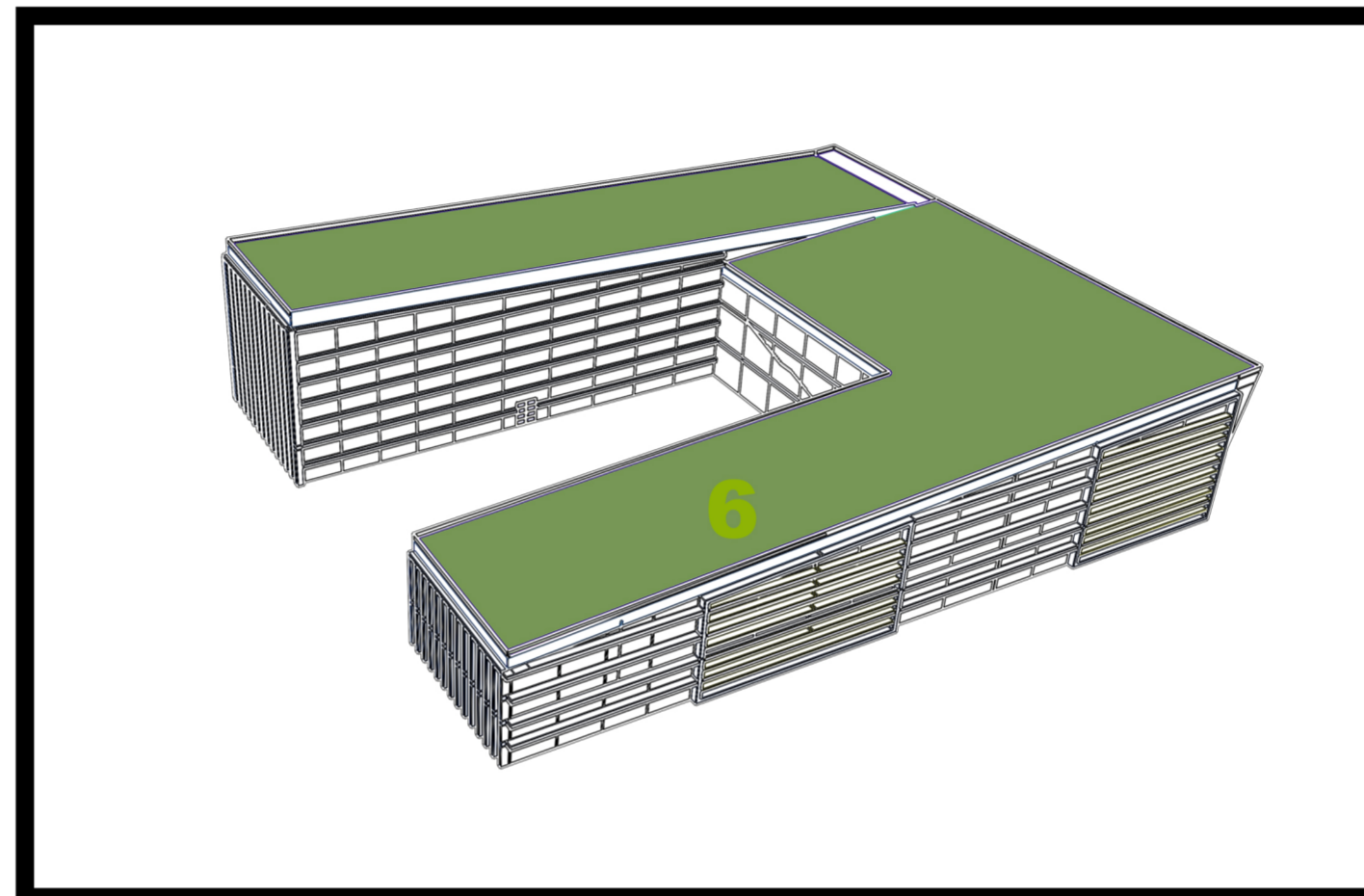


- 1** PREVAILING WIND DIRECTION FROM NORTH -WEST TO SOUTH EAST.BUILDING WAS ROTATED THE PERPENDICULAR TO PREVAILING WIND DIRECTION.DIRECTION OF THE PREVAILING WIND PROVIDES BETTER VENTILATION.
- 2** COURTYARDS MAKES IT EASY TO MAXIMIZE DAYLIGHT IN THE UNITS AND HELPS TO VENTILATE THE BUILDING.
- 3** THANKS TO SHADING ELEMENTS THE LIGHT WILL BE TAKEN IN THE BUILDING IN A CONTROLLED WAY.WOOD SUN BREAKER WAS USED BECAUSE IT IS RENEWABLE MATERIAL.
- 4** SOLAR PANELS ARE USED FOR POWER GENERATION.

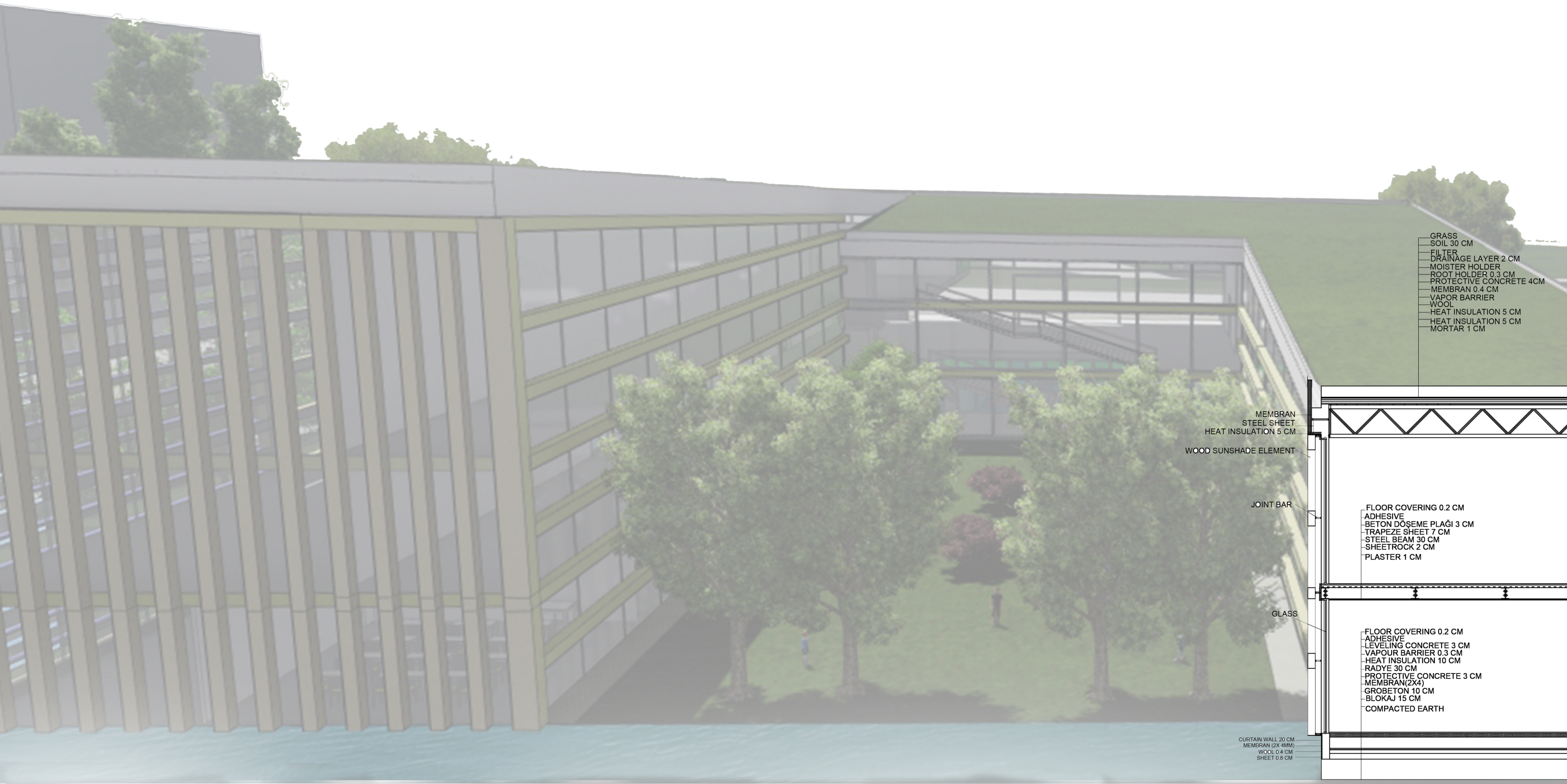
NEARLY ZERO WATER



NEARLY ZERO CARBON



- 5** RAINWATER COLLECTORS REDUCE THE WATER USAGE.RAINWATER IS COLLECTED THROUGH THE TANK THAN USED AS TOILETS,CLEANING AND WATERING.
- 6** GREEN ROOF REDUCES THE HEAT GAIN THROUGH THE ROOF SO IT REDUCES THE ENERGY LOAD.IT PROVIDES BIODIVERSITY FOR PLANTS.



- GRASS
- SOIL 30 CM
- FILTER
- DRAINAGE LAYER 2 CM
- MOISTURE HOLDER
- ROOT HOLDER 0.3 CM
- PROTECTIVE CONCRETE 4CM
- MEMBRAN 0.4 CM
- VAPOR BARRIER
- WOOL
- HEAT INSULATION 5 CM
- HEAT INSULATION 5 CM
- MORTAR 1 CM

- MEMBRAN
- STEEL SHEET
- HEAT INSULATION 5 CM
- WOOD SUNSHADE ELEMENT

JOINT BAR

GLASS

- FLOOR COVERING 0.2 CM
- ADHESIVE
- BETON DOŞEME PLAGI 3 CM
- TRAPEZE SHEET 7 CM
- STEEL BEAM 30 CM
- SHEETROCK 2 CM
- PLASTER 1 CM

- FLOOR COVERING 0.2 CM
- ADHESIVE
- LEVELING CONCRETE 3 CM
- VAPOUR BARRIER 0.3 CM
- HEAT INSULATION 10 CM
- RADYE 30 CM
- PROTECTIVE CONCRETE 3 CM
- MEMBRAN(2X4)
- GROBETON 10 CM
- BLOKAJ 15 CM
- COMPACTED EARTH

- CURTAIN WALL 20 CM
- MEMBRAN (2X 4MM)
- WOOL 0.4 CM
- SHEET 0.8 CM