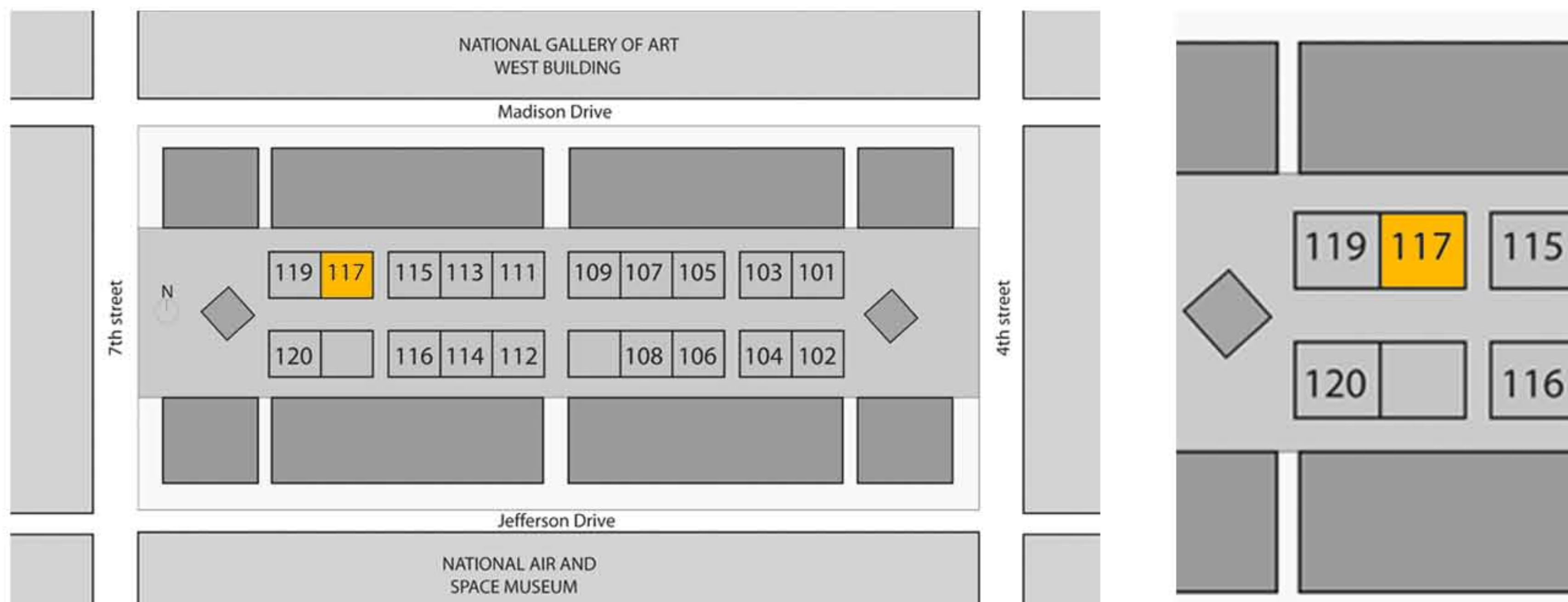


# AUGUST '05 SUBMITTAL



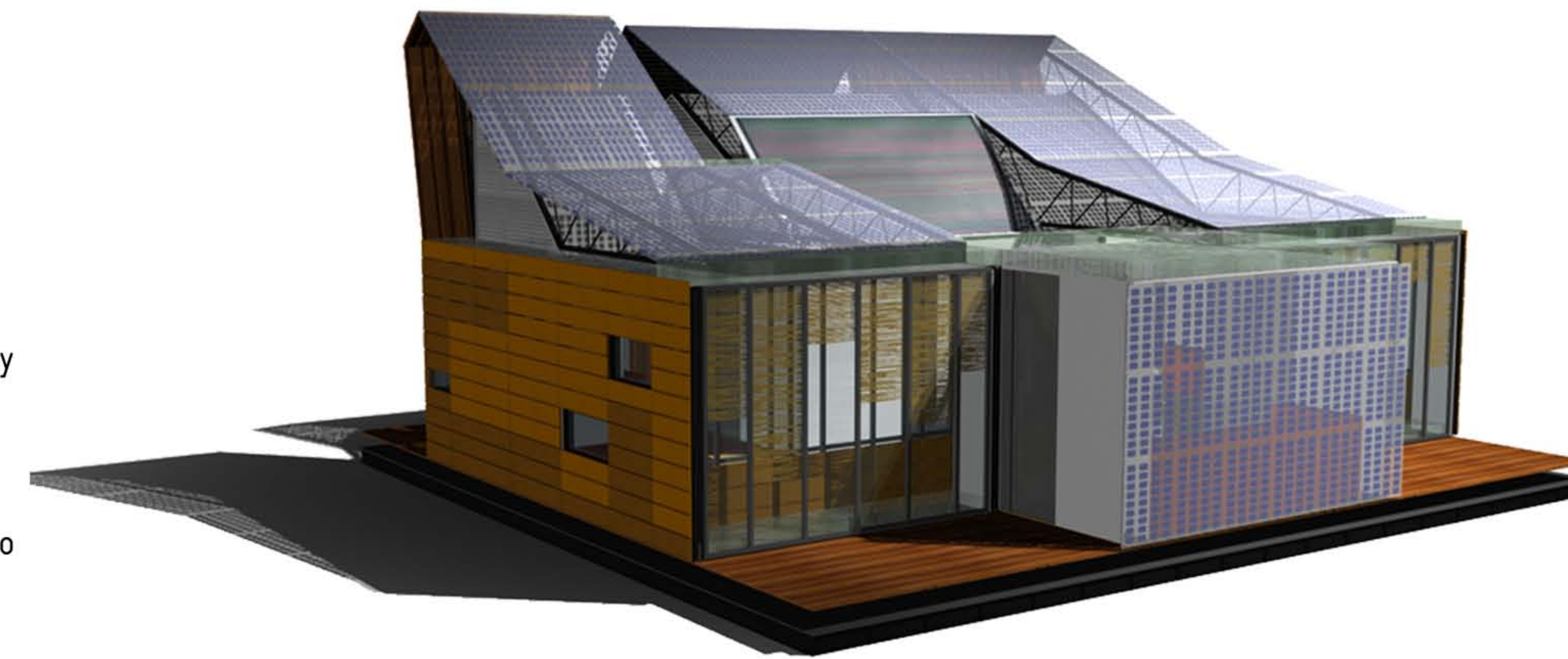
## MAGIC BOX

unfolding under the sun



UPM's proposal has been named MAGIC BOX. As a child's toy, the dwelling is open to surprise, movement and exploration. A great many layouts are possible since a number of movable walls allow the occupant to unify or compartmentalize its interior space. Moreover, a whole part of the house may be unfolded, letting an internal patio provide a touch of natural environment into a perfectly modern building. The walls follow a modular scheme but each has been designed according to orientation and time of solar radiation. The roof, which is partly green and partly covered with photovoltaic cells, is independent of the livable volume yet preserves a compositional role, extending its appealing wavy shape to the rest of the lot. MAGIC BOX is characterized by easy use, versatility and layout consistency in both the inside and the outside.

The building is set out to be bioclimatic to the highest degree. The term "bioclimatic" refers to the relation of climate and life, both in the natural and man-made environment. Consequently, great importance has been given to livability, to air quality and ventilation, and to adequate levels of thermal comfort and humidity. Such relation with the environment not only highlights the visual and spatial aspects of the house, but also fosters efficient consumption of materials, natural resources and energy. MAGIC BOX is full of European, Mediterranean and purely Spanish spirit. The heat of bright southern sun, refreshing shading by low-maintenance vegetation, and the warm earth colors have been appropriated to create a cozy and ecologically friendly home, which invites to extend the confines of a private space to reach out to the local environment and community.



2005 SOLAR DECATHLON  
UPM Proposal

