

The West Hollywood AVSRS Parking Structure

THE ROBO GARAGE

100 Word Narrative

The construction of the West Hollywood A.V.S.R.S parking structure resolves severe local parking shortages for local businesses as well as City Hall. In addition, the project design resolves on site space constraints, circulation, and a need for civic open space, all while meeting the city's aggressive standards for sustainability. This solution includes an environmentally aggressive material pallet, drought tolerant planting and a 52-kilowatt photovoltaic array creating a grid neutral solution for the structure as well as supplementing the energy needs of the existing City Hall. The project is inherently designed to become a catalyst for placemaking within this densely populated urban environment.

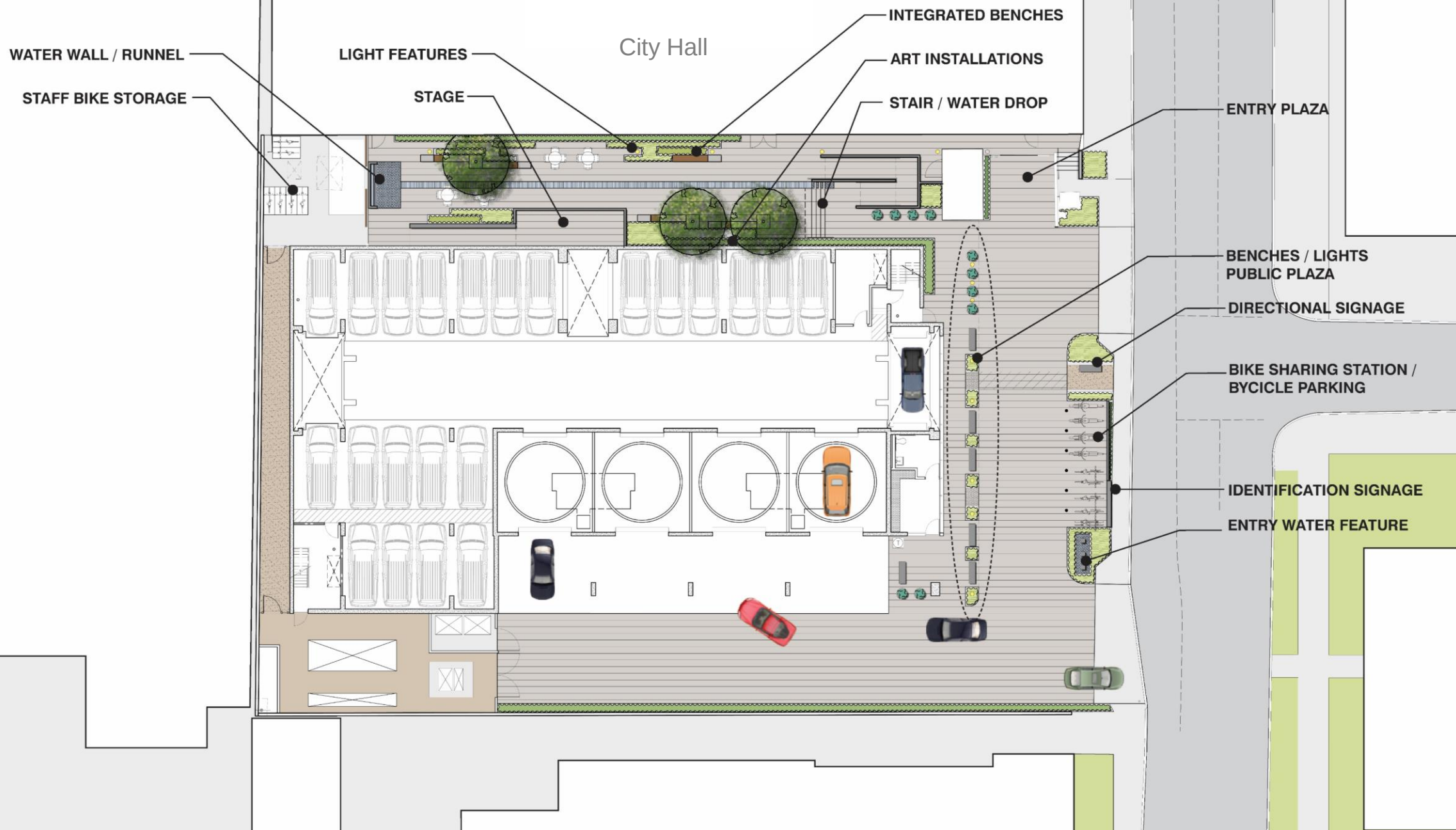
The West Hollywood AVSRS Parking Structure
THE ROBO GARAGE



The "Net of Indra"

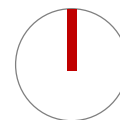


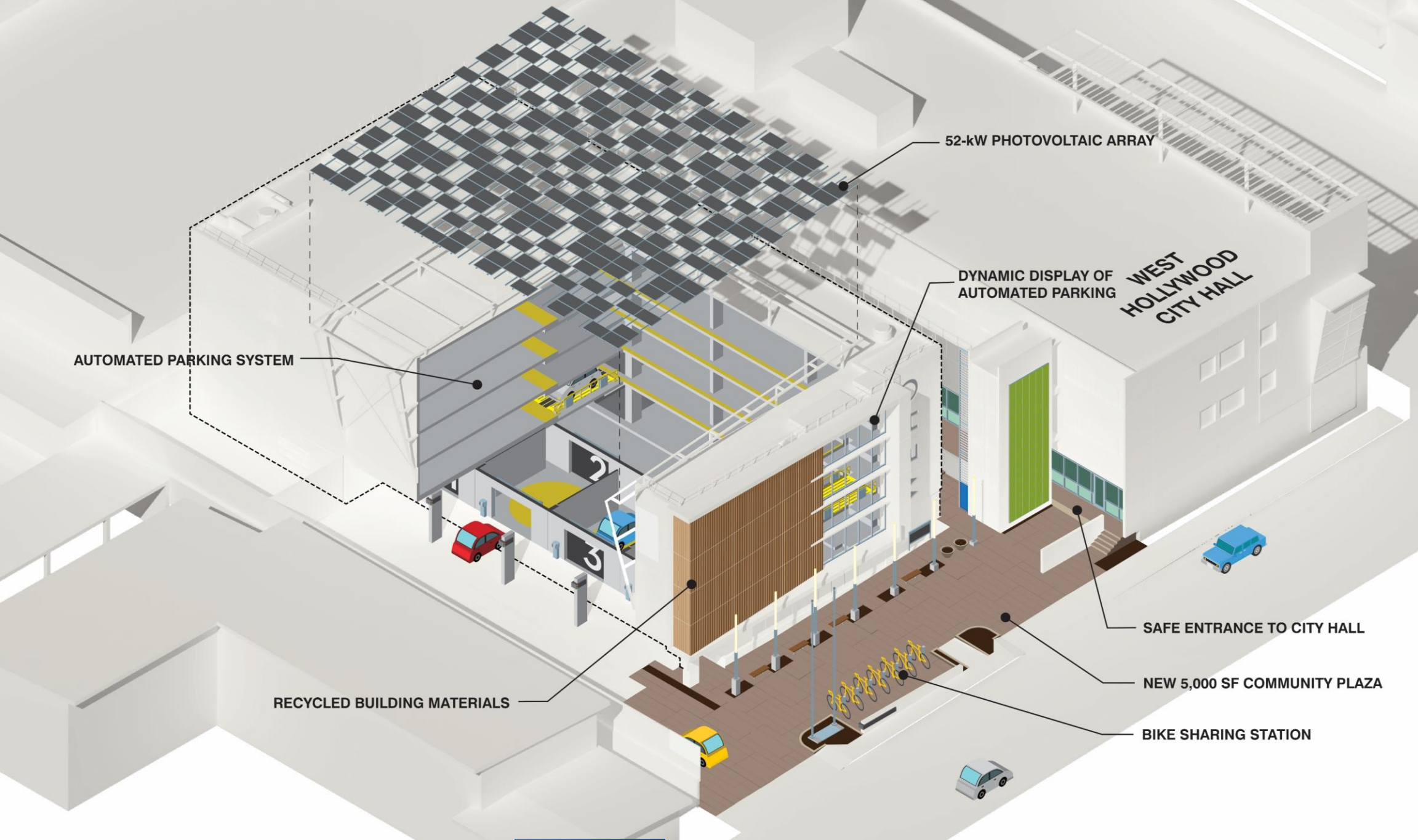
View From Roadside



The Site

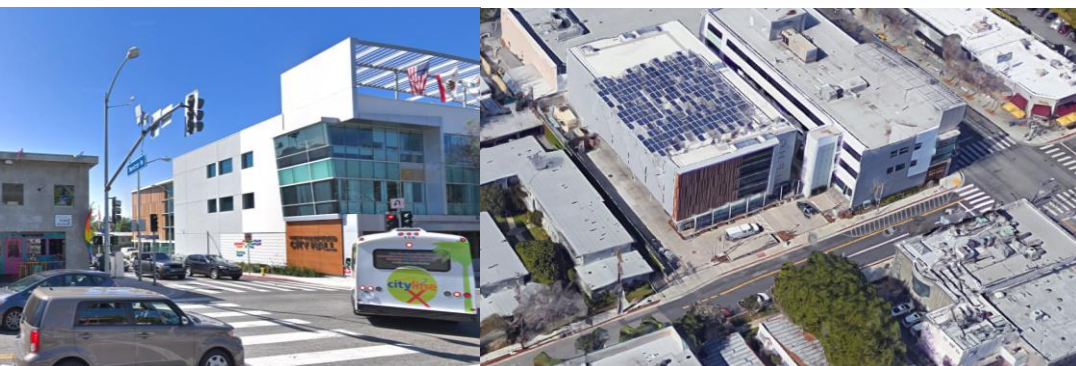
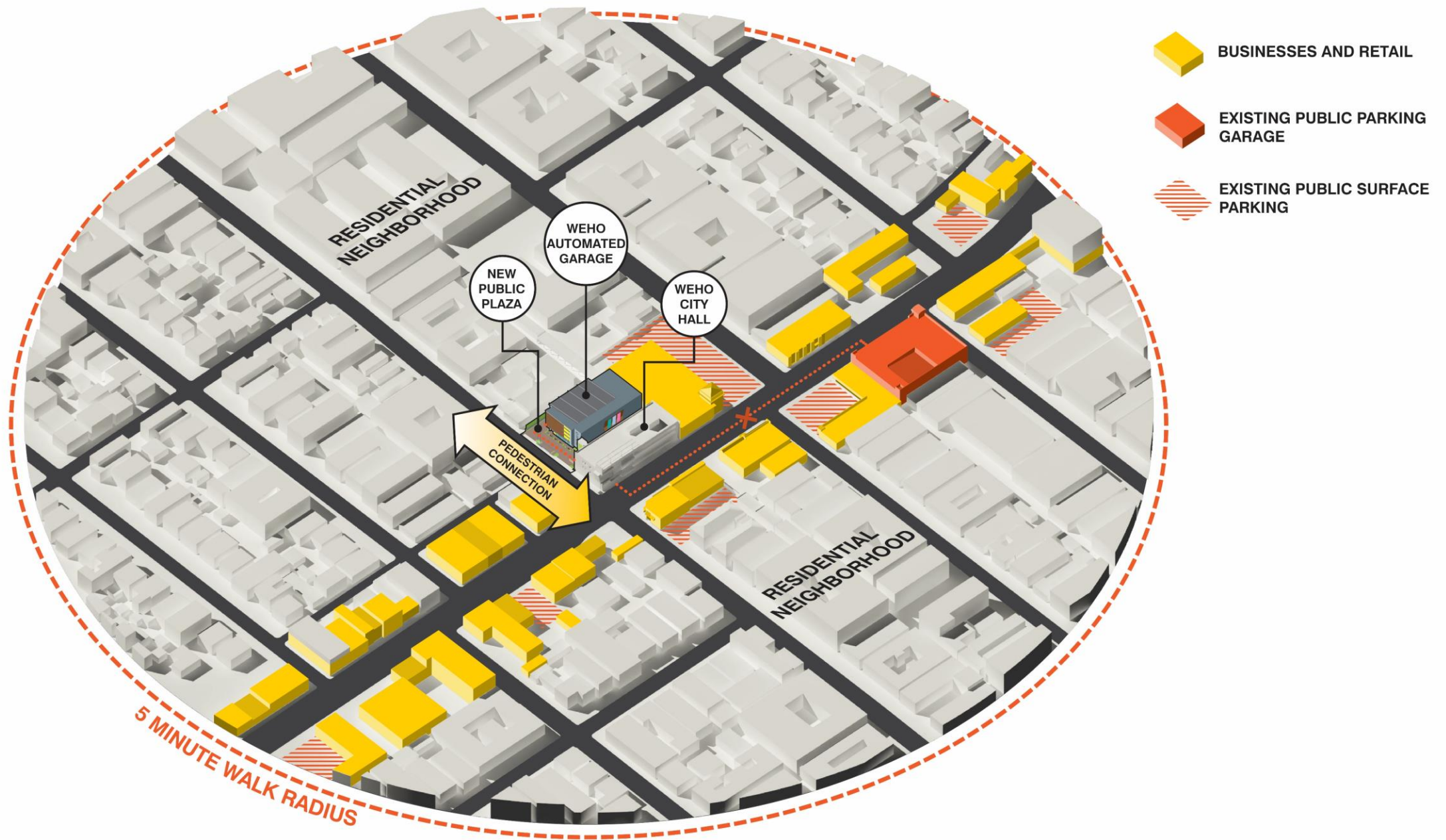
Site Area = 0.59 Acres (25,652 SF)
 Gross Building Area = 59,250 SF
 Program Area = 59,250 SF





Design For **Sustainability**

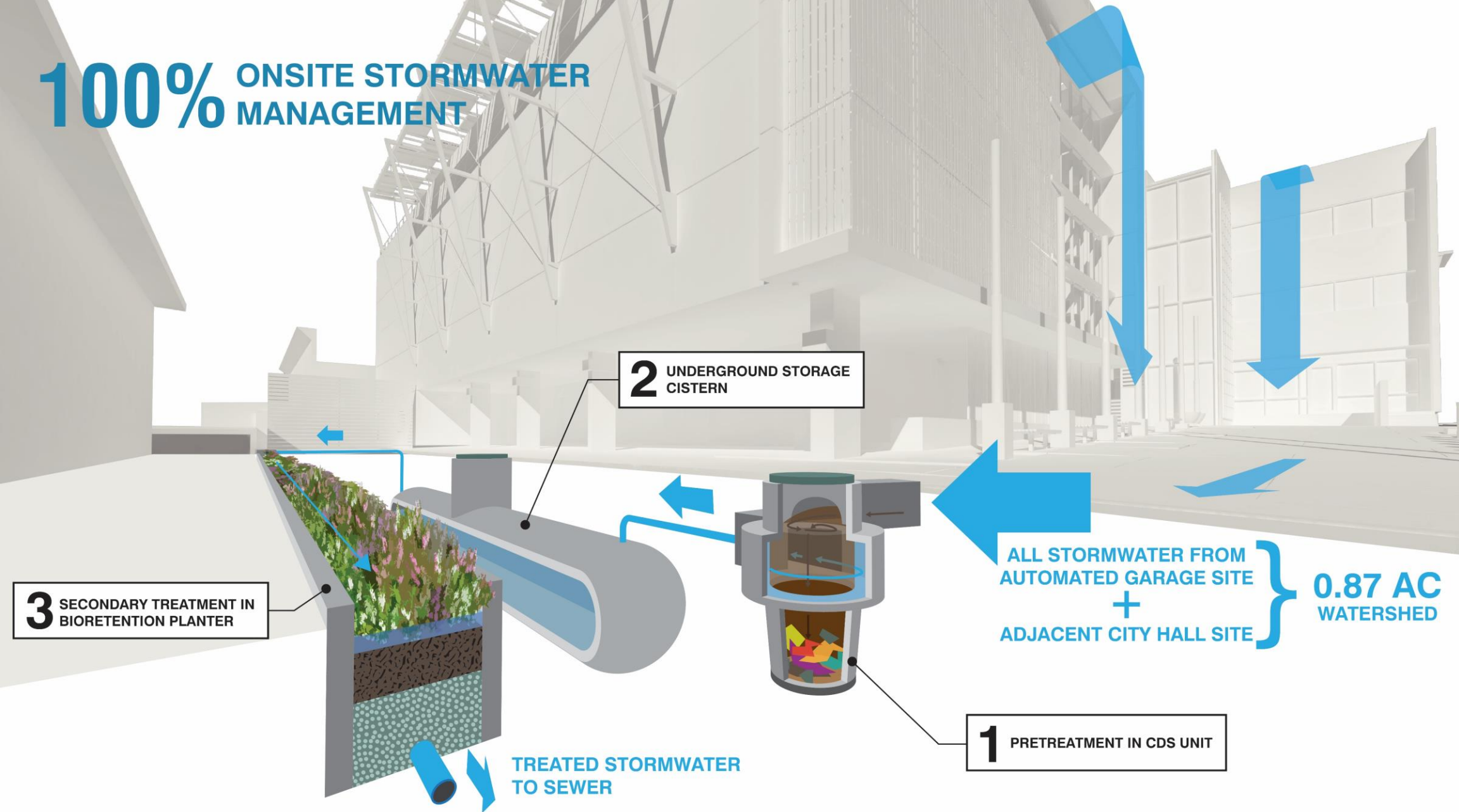
A “clean, green, parking machine” (*Curbed, LA*) in a dense urban environment, the structure combines smart urban design strategies, sustainable design practices, and cityscape design solutions.



Design For **Community**

The automated garage mitigated acute congestion and a lack of parking at City Hall and the downtown business strip. It serves the parking needs of City Hall employees during the day, and downtown visitors and neighboring residents during the night.

100% ONSITE STORMWATER MANAGEMENT

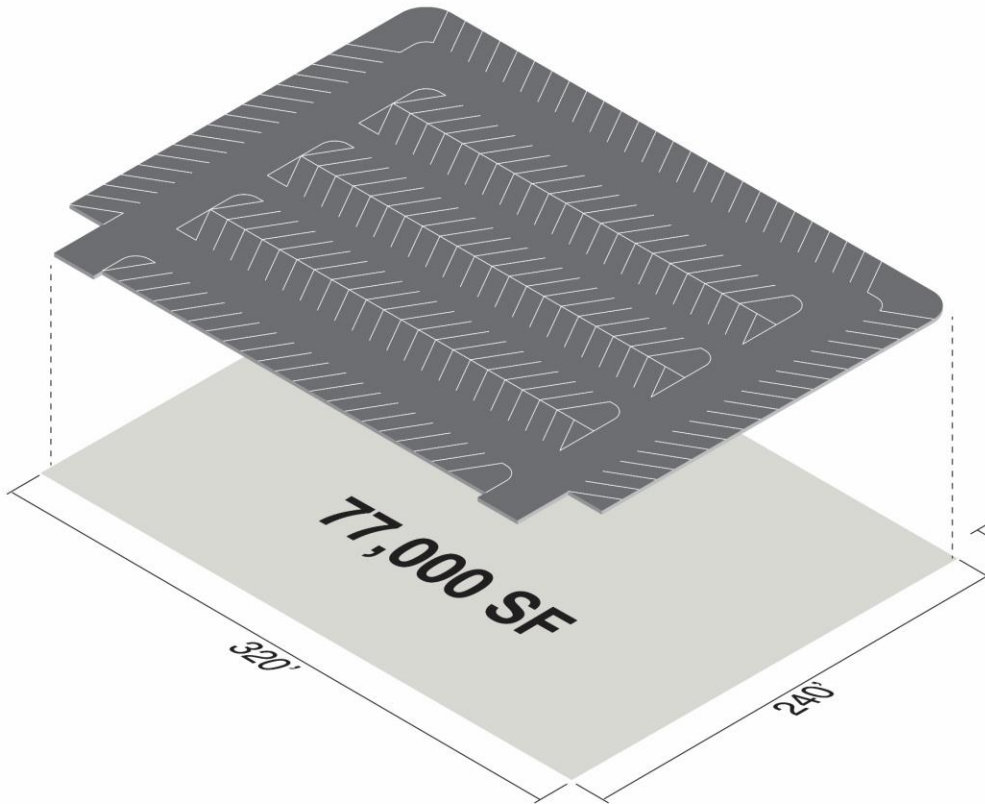


Design For **Water**

The project's stormwater management practices became a model for the City of West Hollywood and have been used as a case study for permitting applicants within the City.

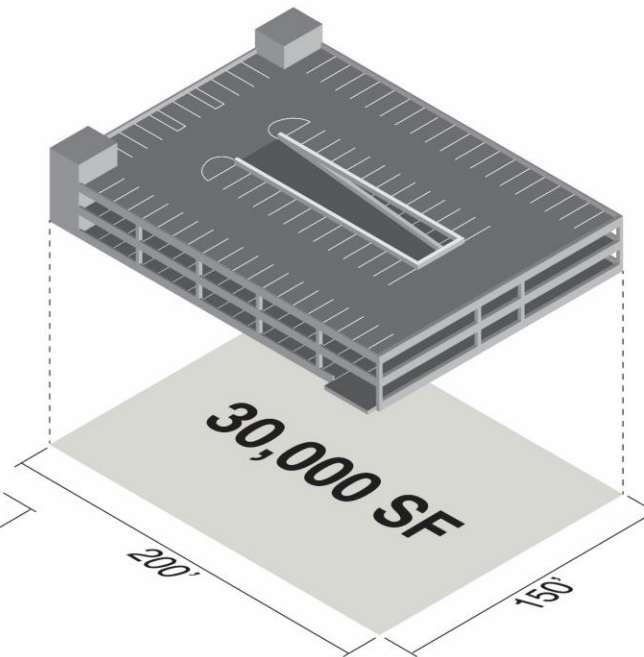
TYPICAL SURFACE PARKING

202 VEHICLES



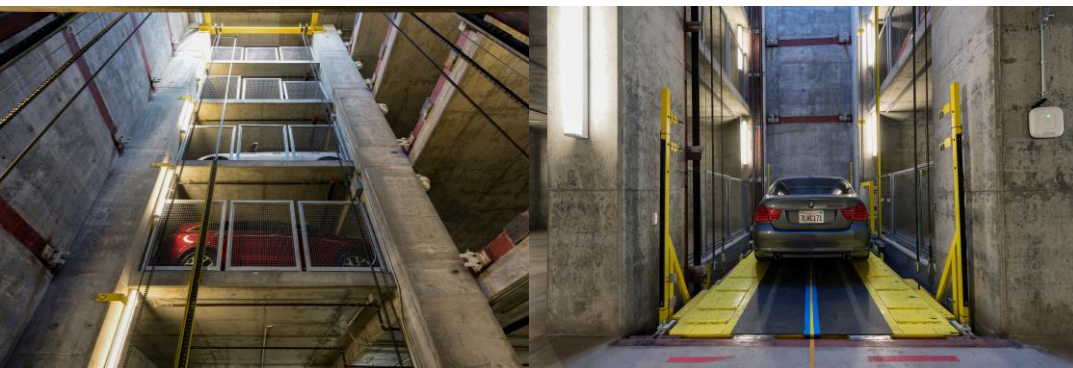
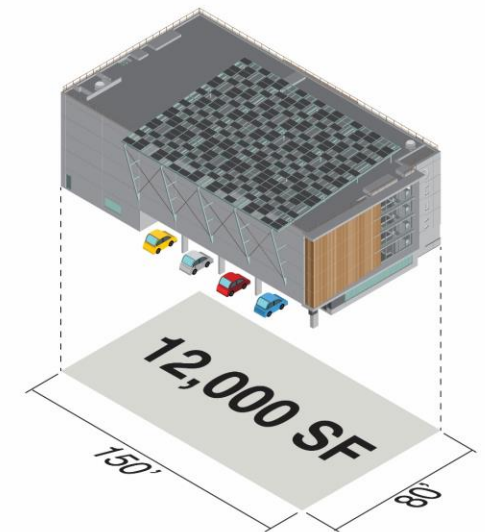
TYPICAL PARKING GARAGE

202 VEHICLES



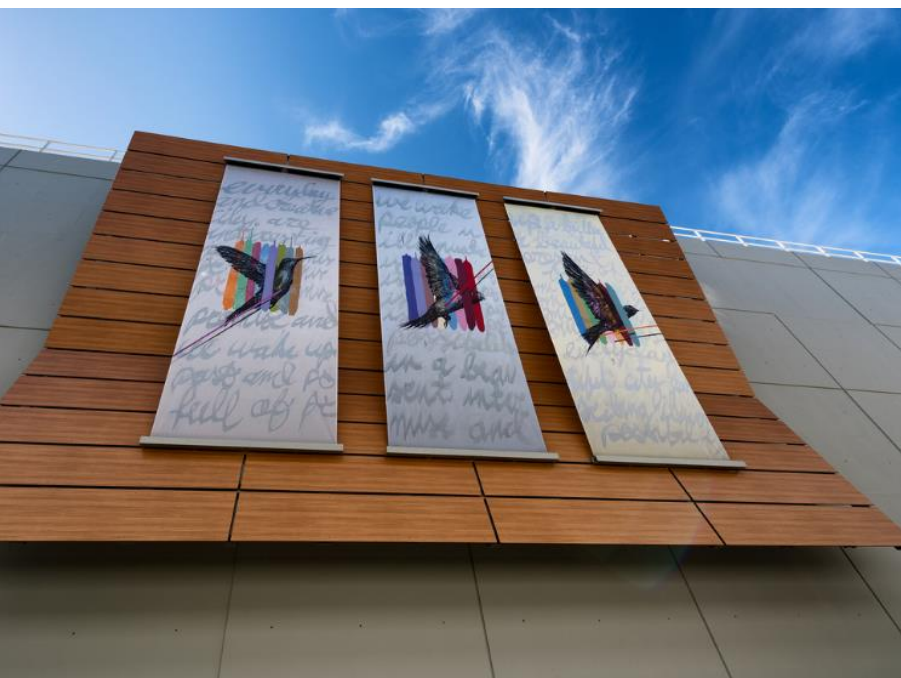
WEHO AUTOMATED GARAGE

202 VEHICLES



Design For **Economy**

The compact nature of the automated parking structure provides a much needed community open space in a congested downtown area. Additionally, the additional parking makes local businesses more viable.



Design For **Public Art**

The AVSRS facility became a showcase for multiple public art installations enriching the civic site as well as the local community. Both local and international competitions resulted in a rich combination of artistic influences.



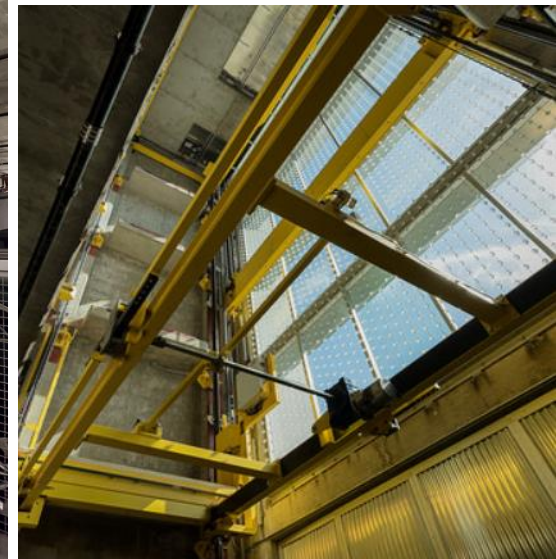
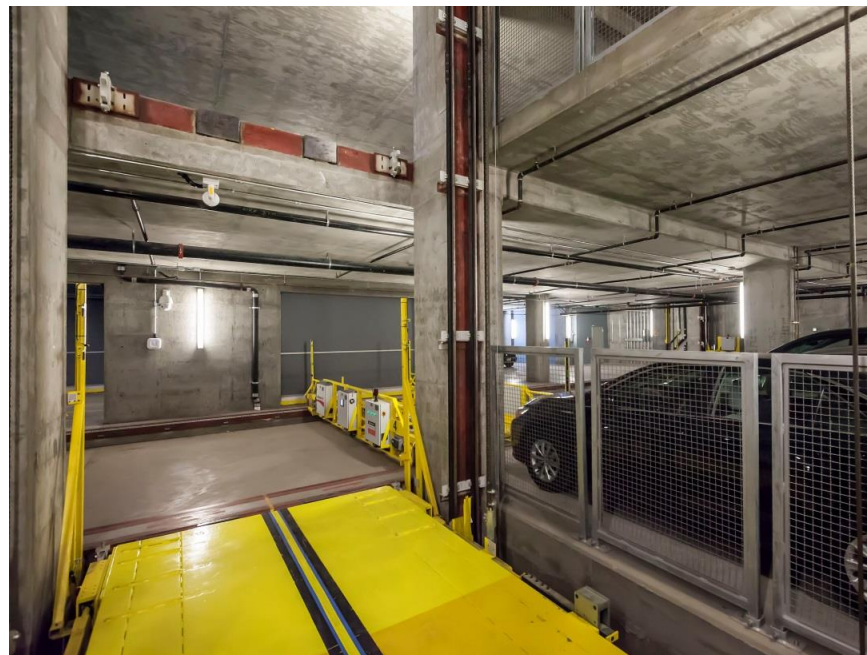
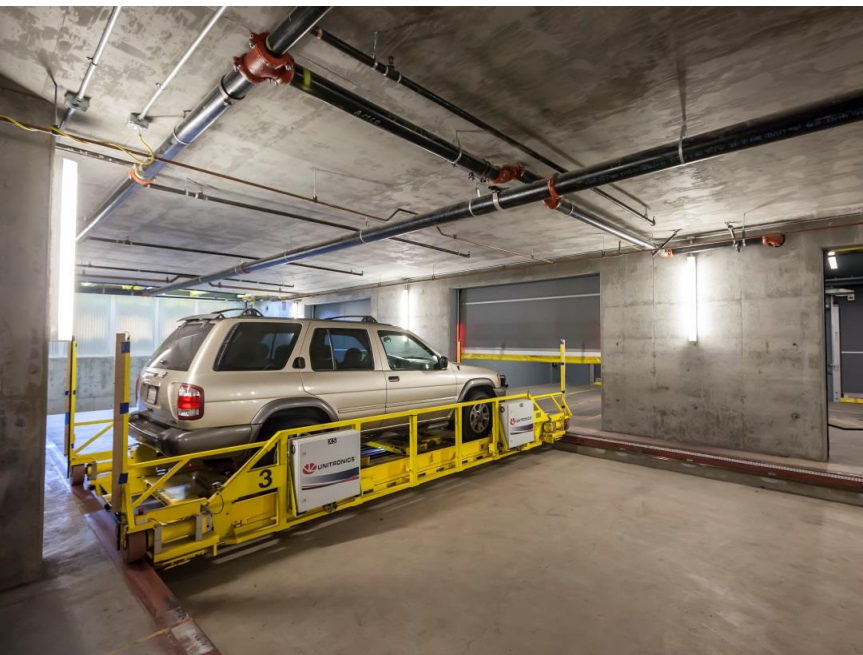
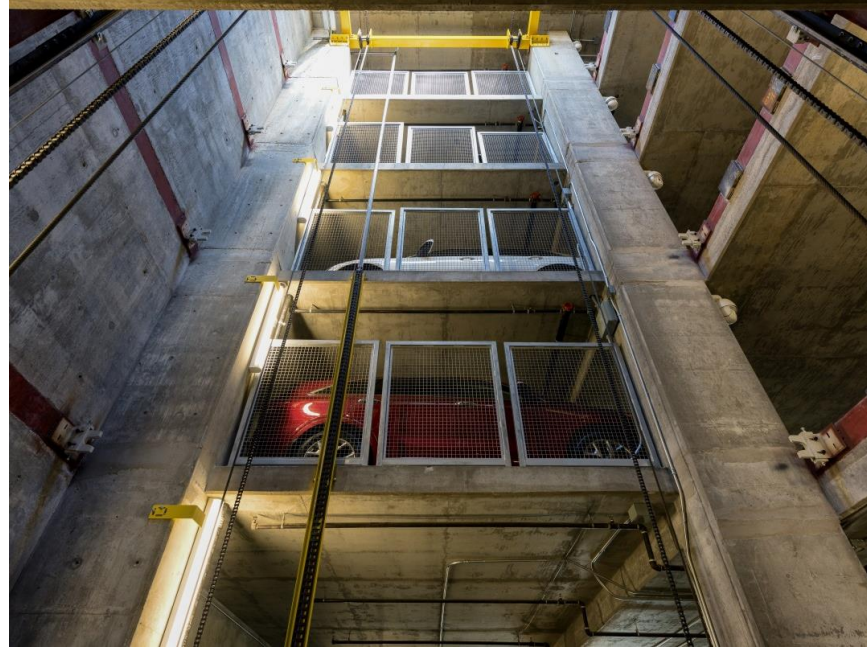
Design For **Open Space**

The reduced footprint of The AVSRS facility allowed for new community, usable open space to be created for civic, community and cultural events. This space also allows for sustainable landscape demonstrations and public art installations.



Design For **Aesthetic**

The simplicity of the AVSRS enclosure allows for a unique architectural expression which integrates civic branding, public art and landscape elements.



Design For **Function**

The automobile warehouse is a computerized, hands free storage compartment which reduces human interaction and increases public security while reducing energy consumption.



View From The Neighborhood



Evening View

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500 Word Narrative

The City of West Hollywood recently unveiled the first municipal fully-automated parking garage built within the South Western United States. This state of the art, sustainable solution provides parking for 200 vehicles and is intended for use by city staff and visitors, residents and local businesses. The A.V.S.R.S. (Automated Vehicle Storage and Retrieval System) was designed to become a catalyst for place making within a densely populated urban environment. While the immediate need for visitor and staff parking was resolved, local city owned parking structures and much coveted street parking spaces were made available for local residents and businesses. In addition, the AVSRS structure was designed to accommodate additional parking for community uses. This gesture almost immediately stimulated local businesses. A new community plaza provides opportunities for community and civic events as well as public art. This space provides a civic heart to the community which previously did not exist. The site planning concept also resolves on going service access and egress issues and accessibility concerns.

The addition of the automated parking structure not only resolved the space constraints, circulation and open space issues on site but also meets the city's high performance standards for sustainability.

This solution offers a clean, environmental alternative to conventional parking systems. Automobiles are nonoperational during the parking and retrieval process causing a reduction in CO2 emissions which equates to removing 92 cars from the road each year or the planting of 67,000 trees. Light pollution from the site to the adjacent residential neighbors is greatly reduced due to the solid nature of the parking warehouse and the automated nature of the system. Further energy savings are created through the inclusion of a 52-kilowatt roof mounted photovoltaic array designed to create an efficient grid neutral solution as well as supplement the power needs of the exiting City Hall facility.

Additionally, the shell surrounding the warehouse features state of the art, sustainable materials such as composite wood panels made primarily from recycled plastic grocery bags and landscape that is drought tolerant and California native.

To embrace the diverse culture of the community, local and international artists were commissioned to create murals, banners and integrated art pieces to be included as an integral part of the structure and site.

The overriding nature of the design was basically a celebration of the community as well as technology. A large glass wall allows a visual glimpse into one of the vehicle lift systems creating an exciting element of animation to the façade. An international artist created the "Net of Indra" comprised of over 3,000 glass spheres within the glass enclosure which both distort and enhance the movement of the vehicles.

The design also addresses the sensitive nature of the site as a bridge between a dense commercial boulevard and a residential neighborhood. The building is sited deep into the site mitigating the massing along the residential street while a combination of a utilitarian and organic materials relate to a revitalized City Hall façade as well as the adjacent residences.