

843 North Spring Street, Los Angeles: CLT, Wide-Flange Steel, and Special Concentric Braced Frames

Thomas Robinson

Founding Principal, LEVER Architecture



**CTBUH 2022
Steel-Timber Conference**

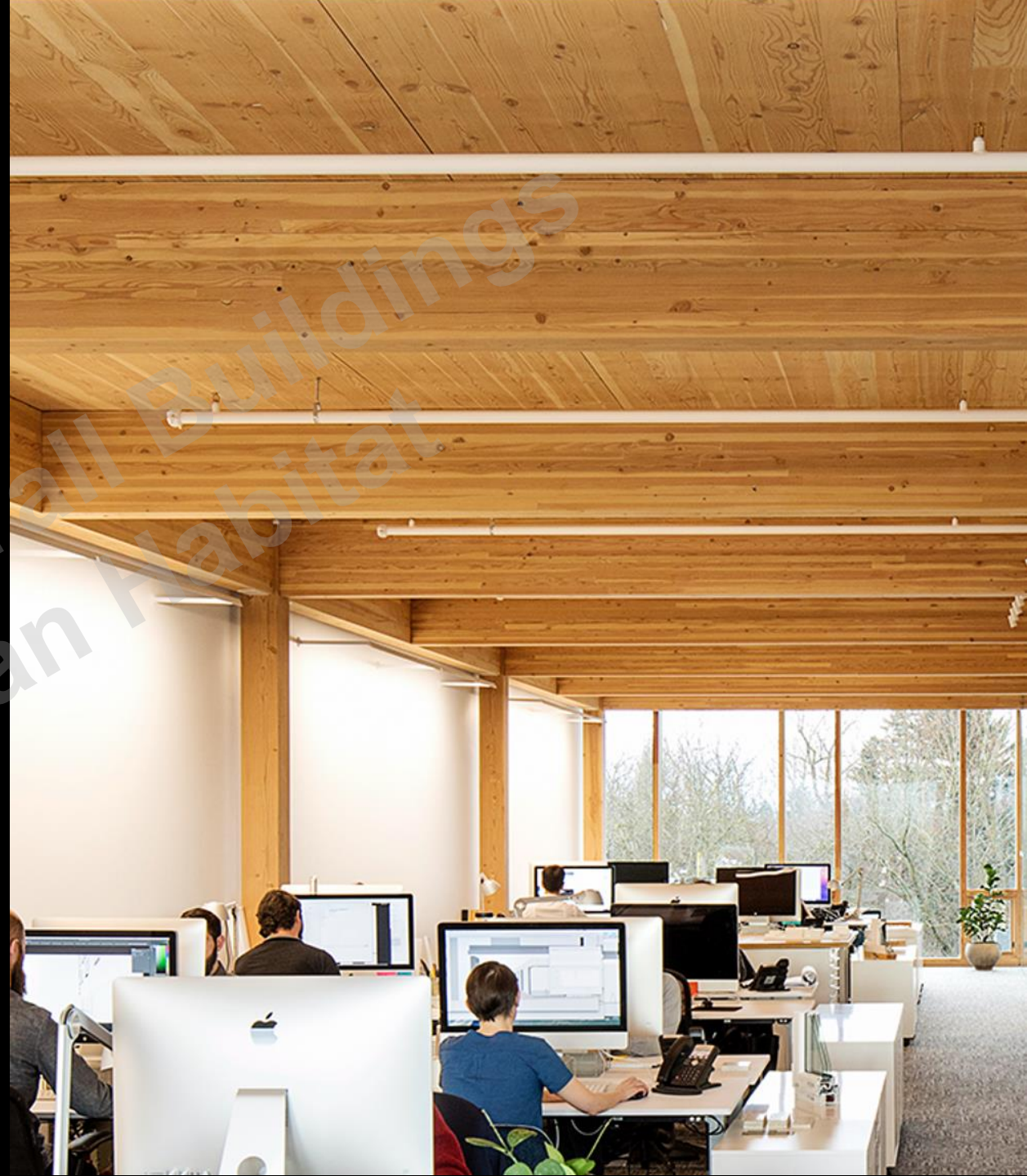
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CLT, Wide-Flange Steel, and Special Concentric Braced Frames

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LEVER Architecture

© Council on Tall Buildings
and Urban Habitat

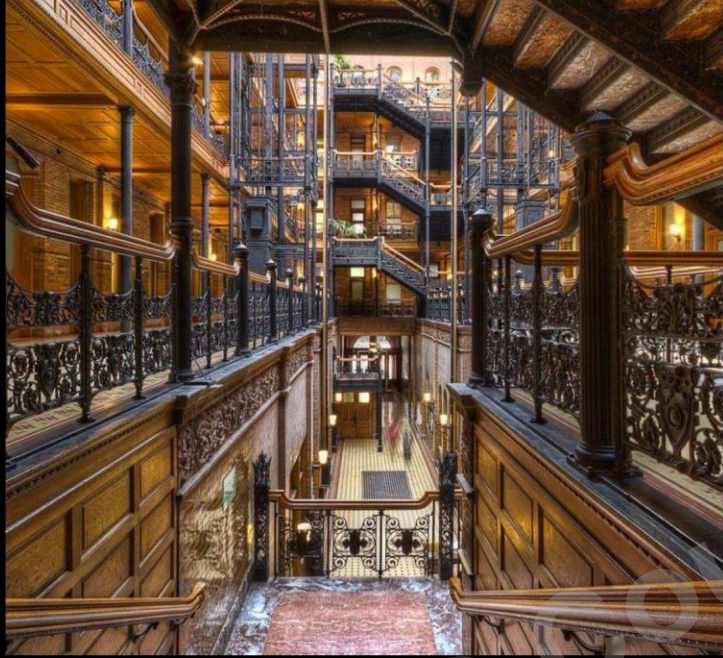
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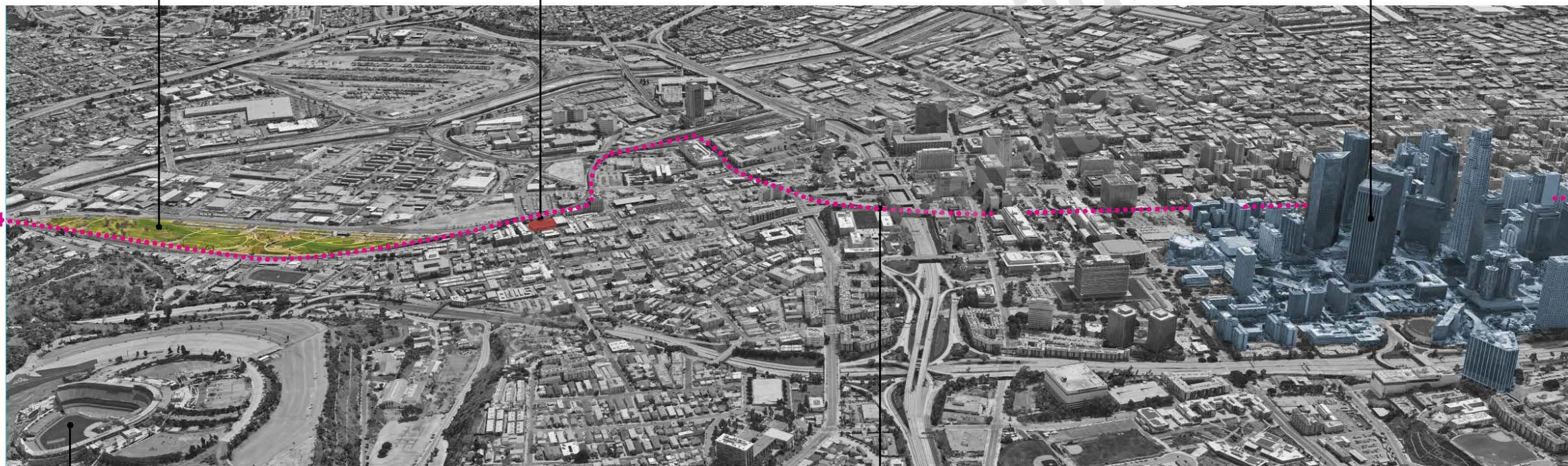




LA State Historic Park
30 Acre recreation venue

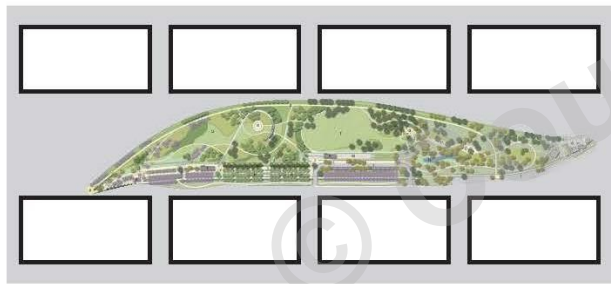
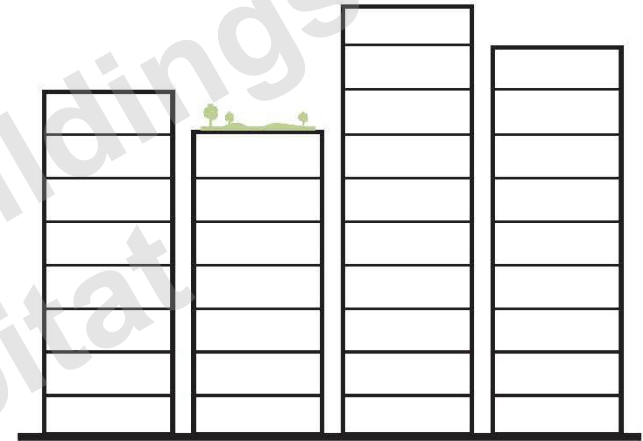
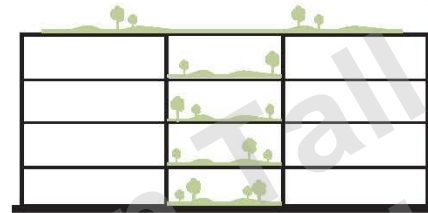
Project Site
CT7

Downtown LA
Urban Core

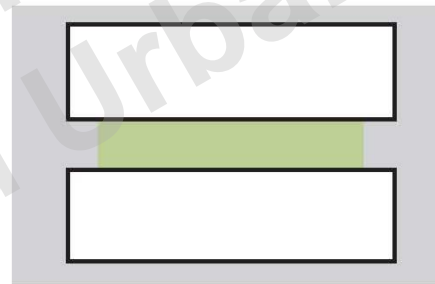


Dodger Stadium
MLB Field

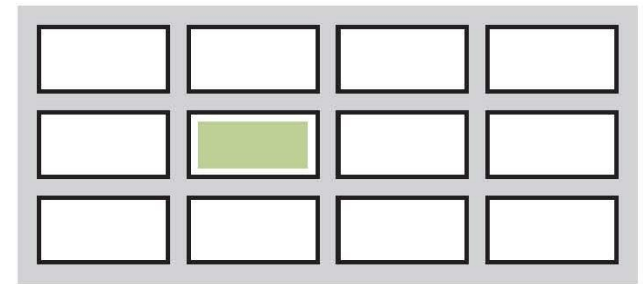
Metro Line
Public transportation



LA State Historic Park

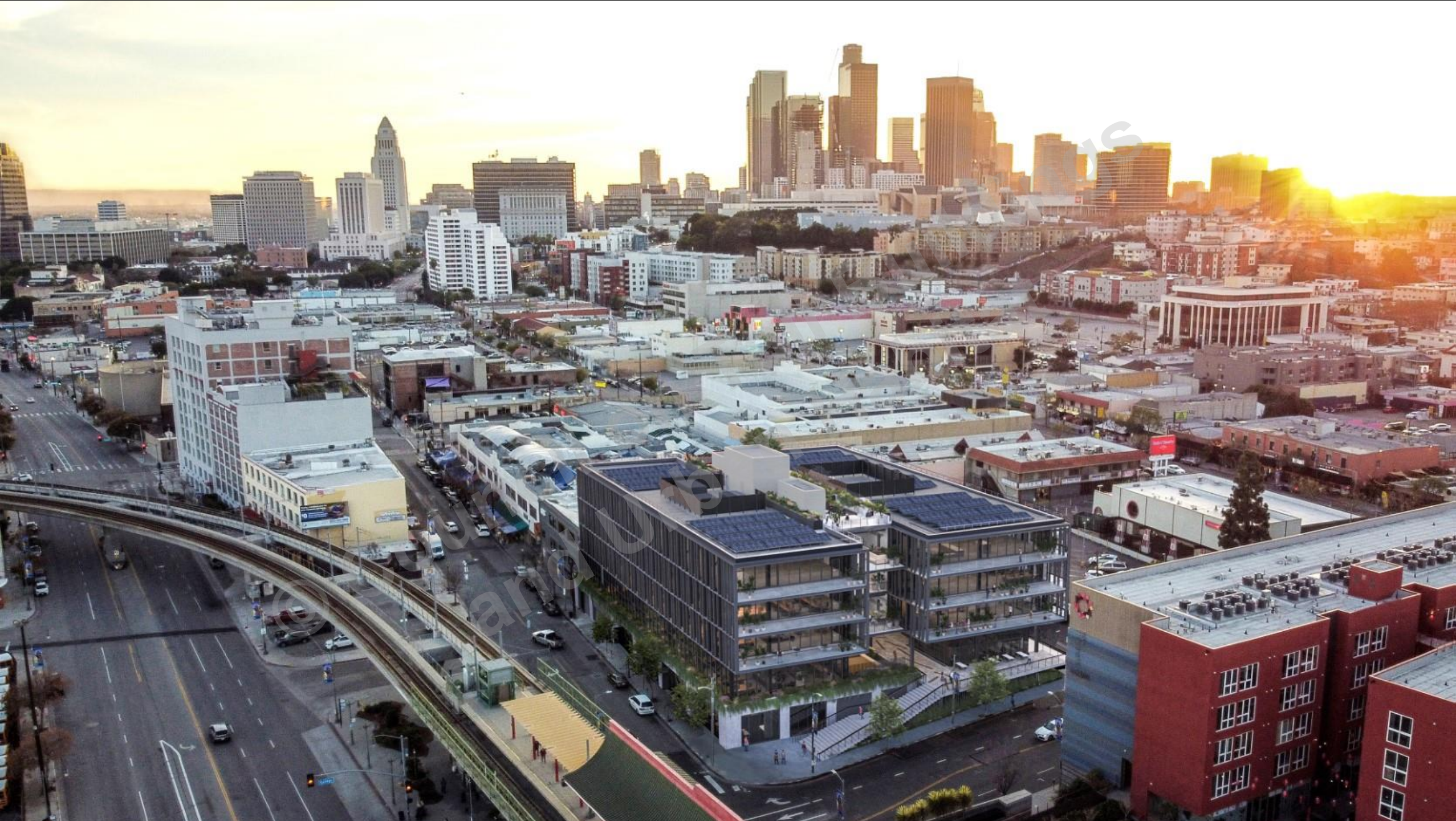


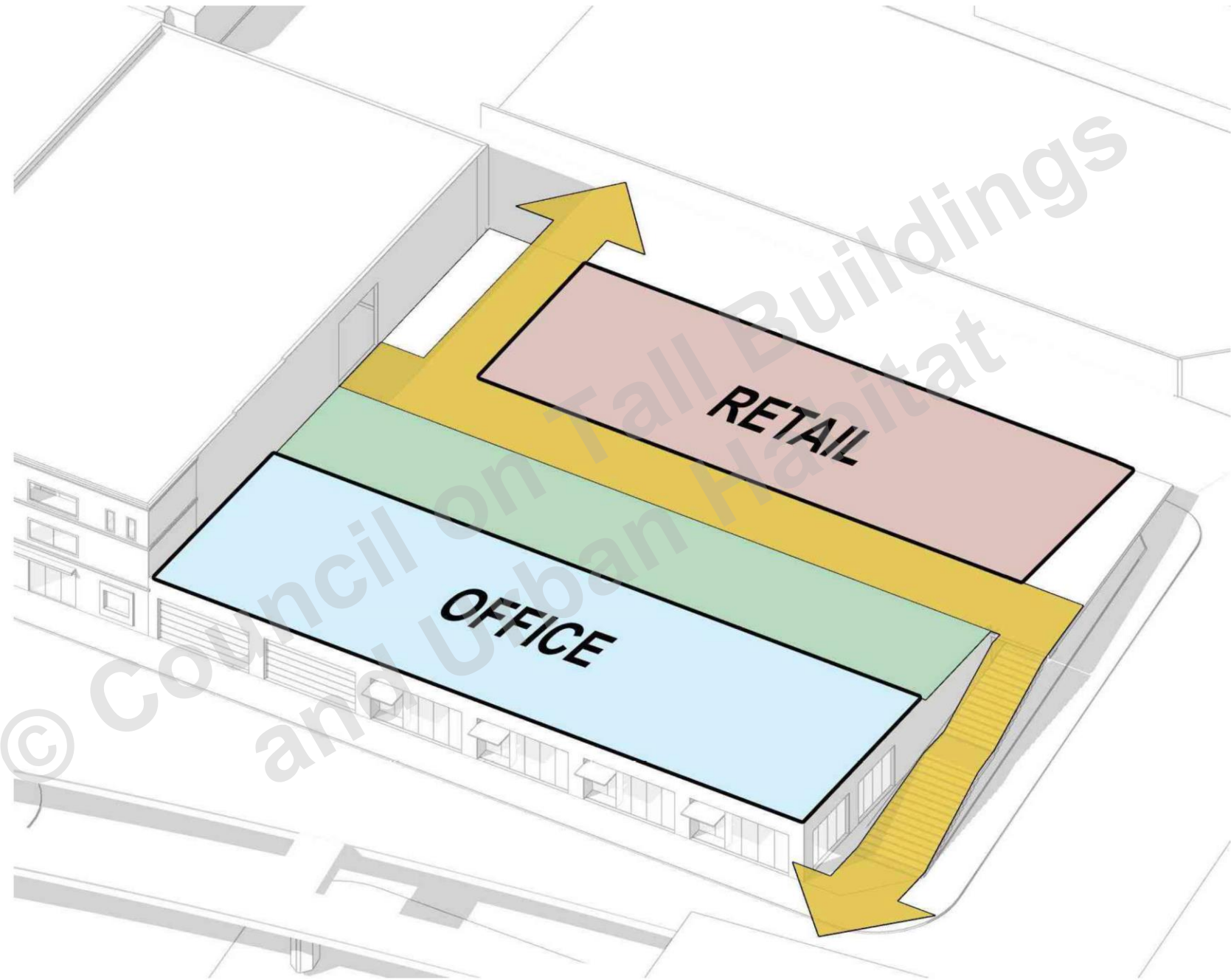
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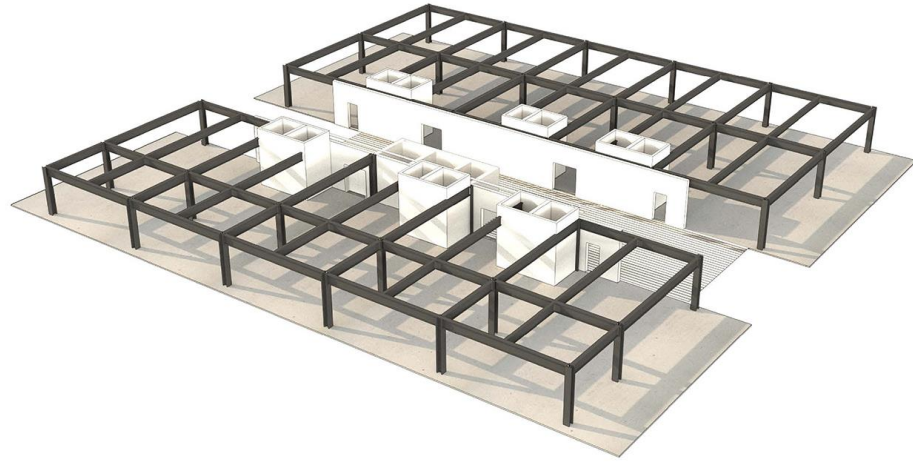
Downtown LA

←----- Low Density ----- High Density -----→

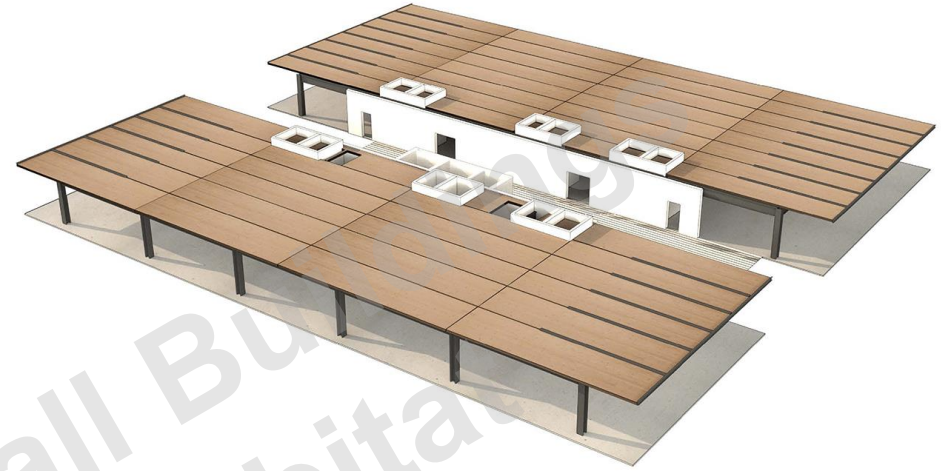




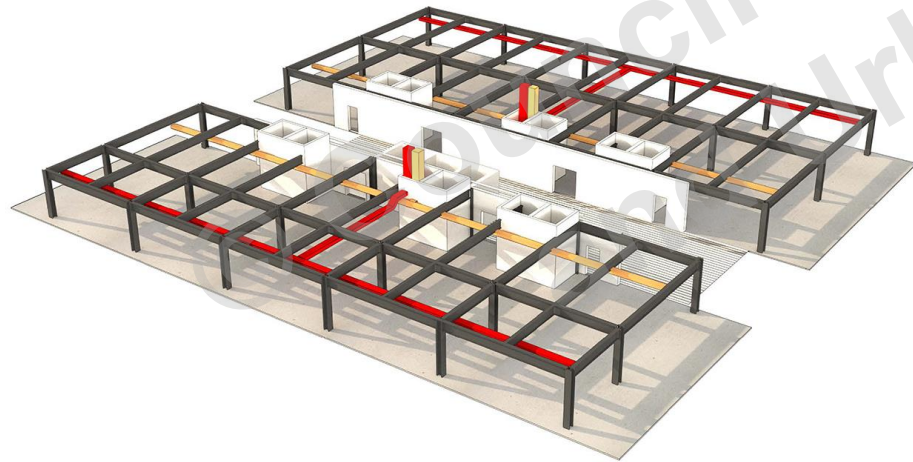




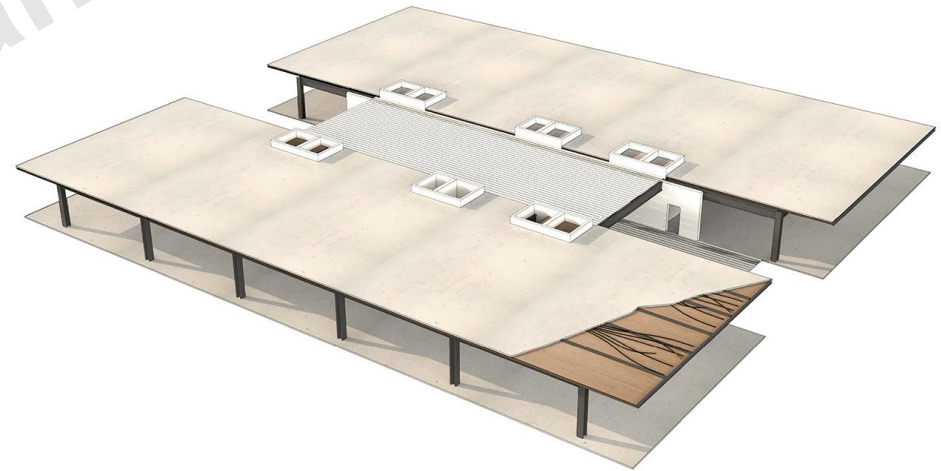
Structural Grid with Sprinkler Runs



CLT Panels



Structural Grid with HVAC Runs



Concrete Topping





N Broadway

N New High St

CT2

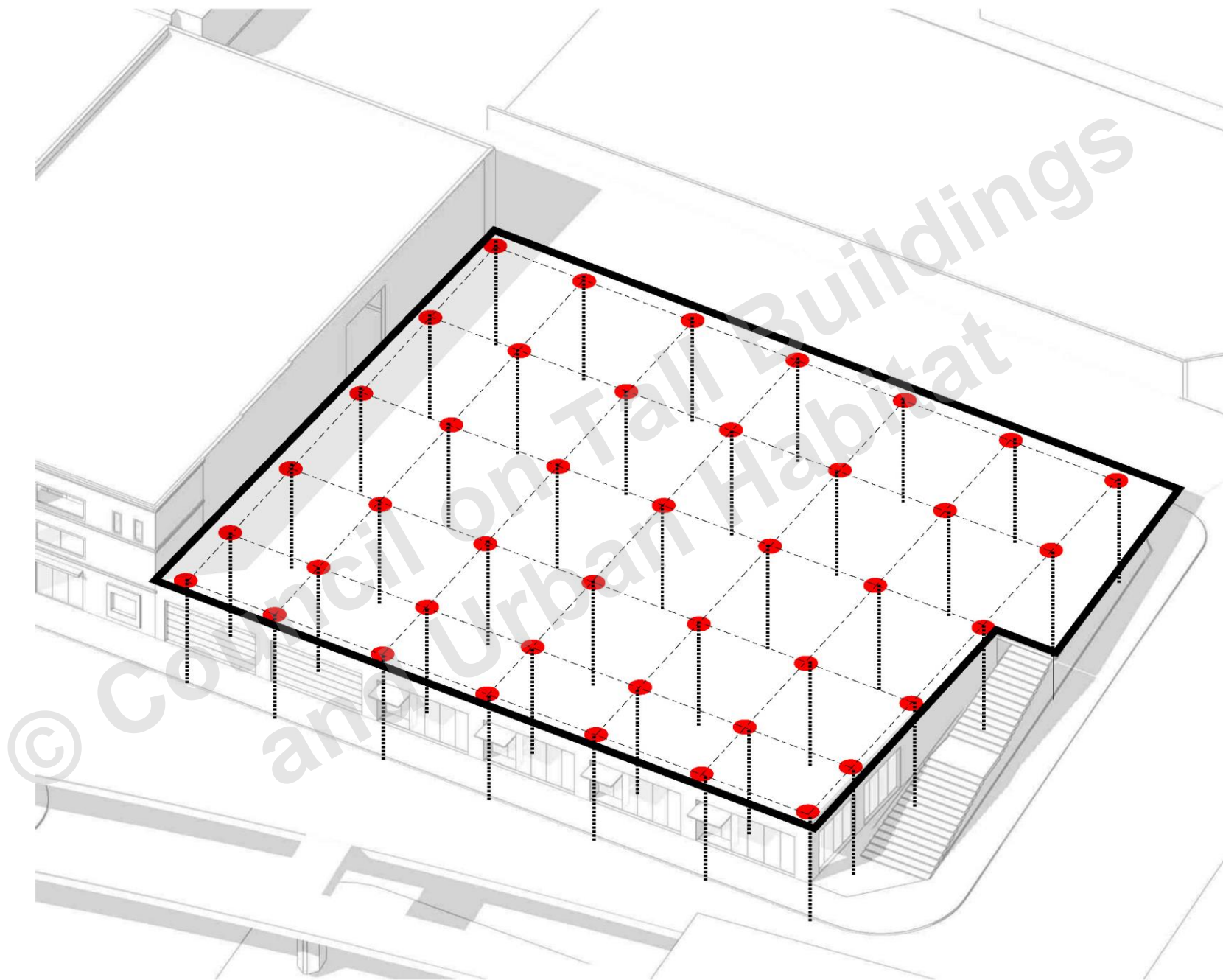
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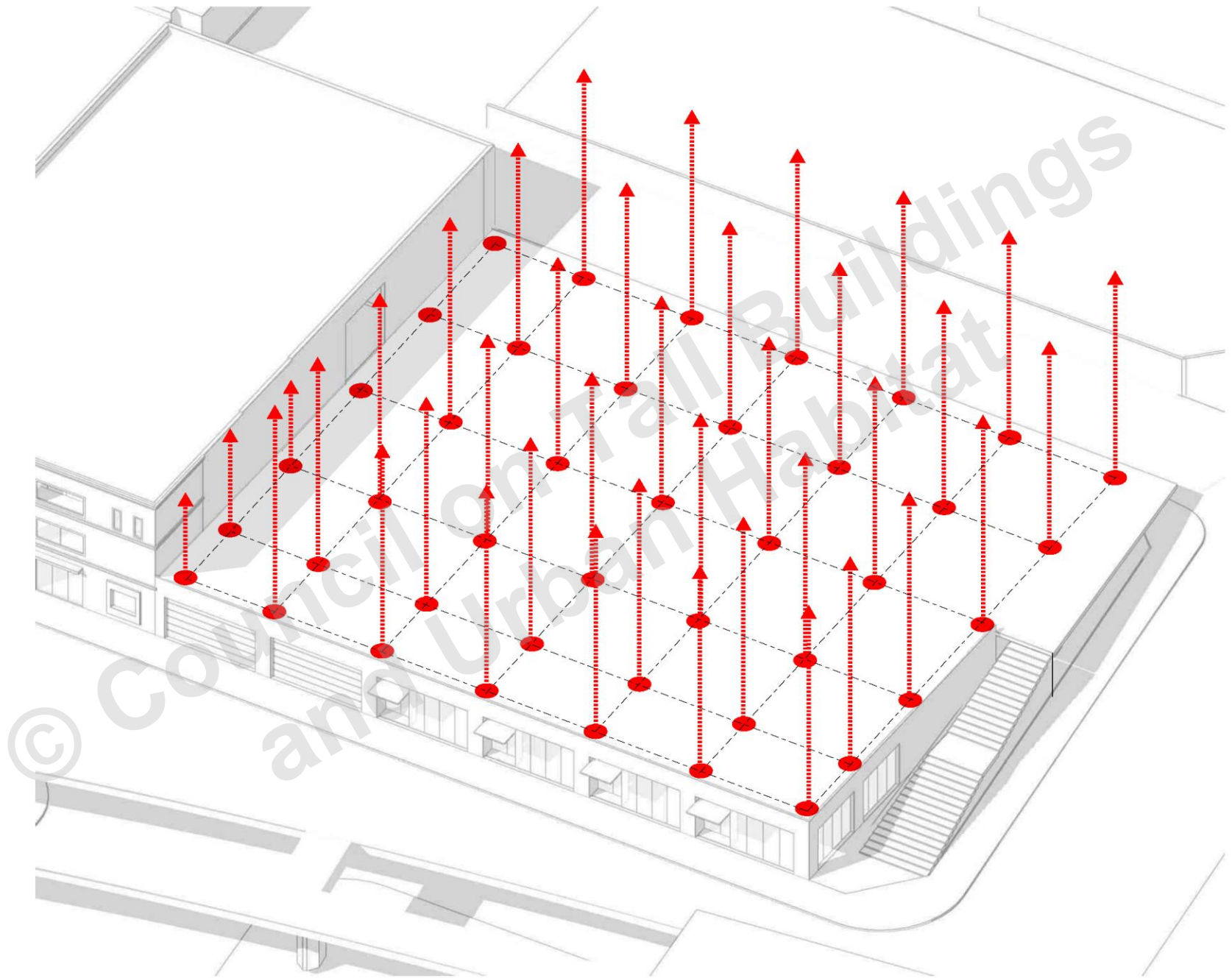
N Spring St

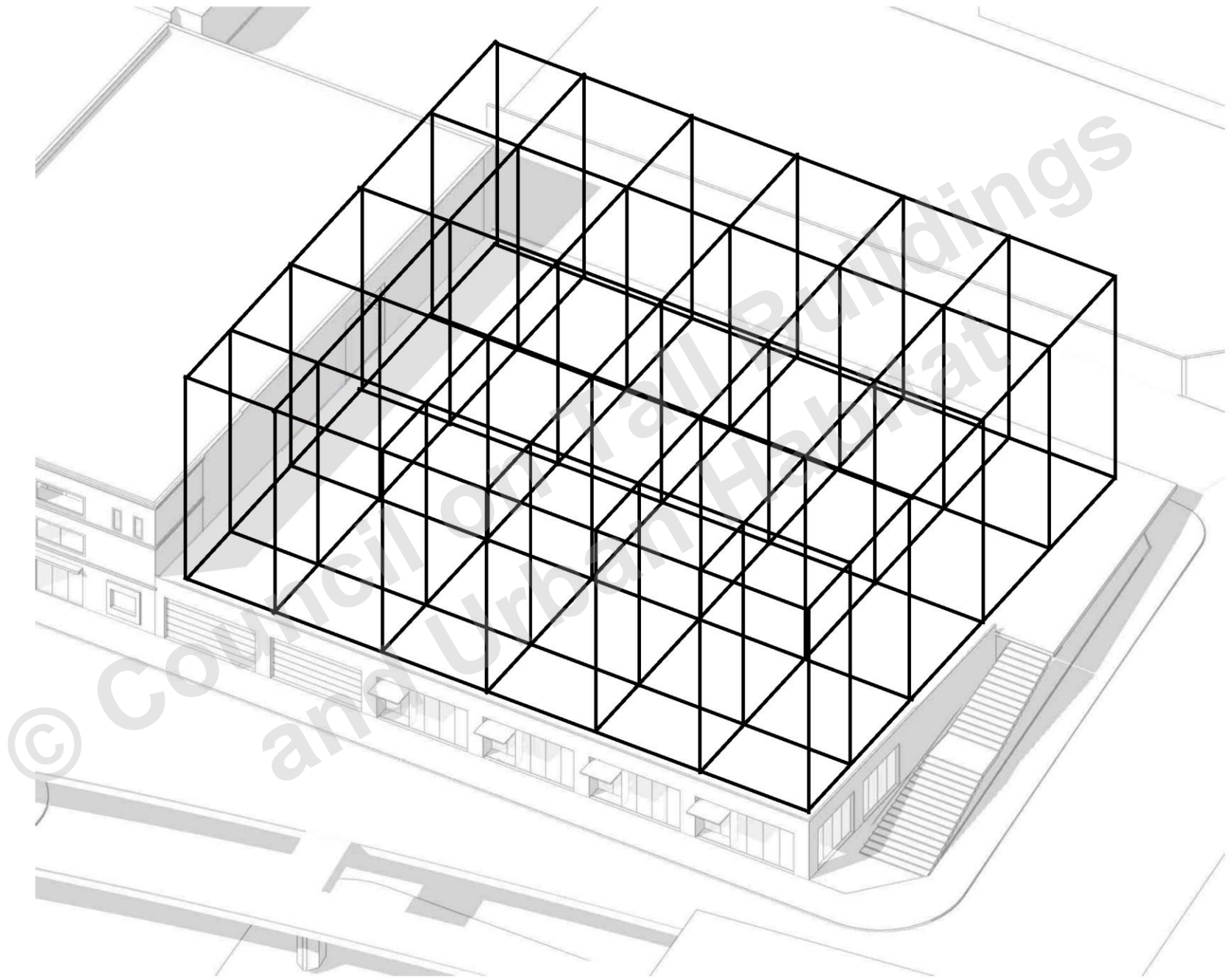
N Alameda St

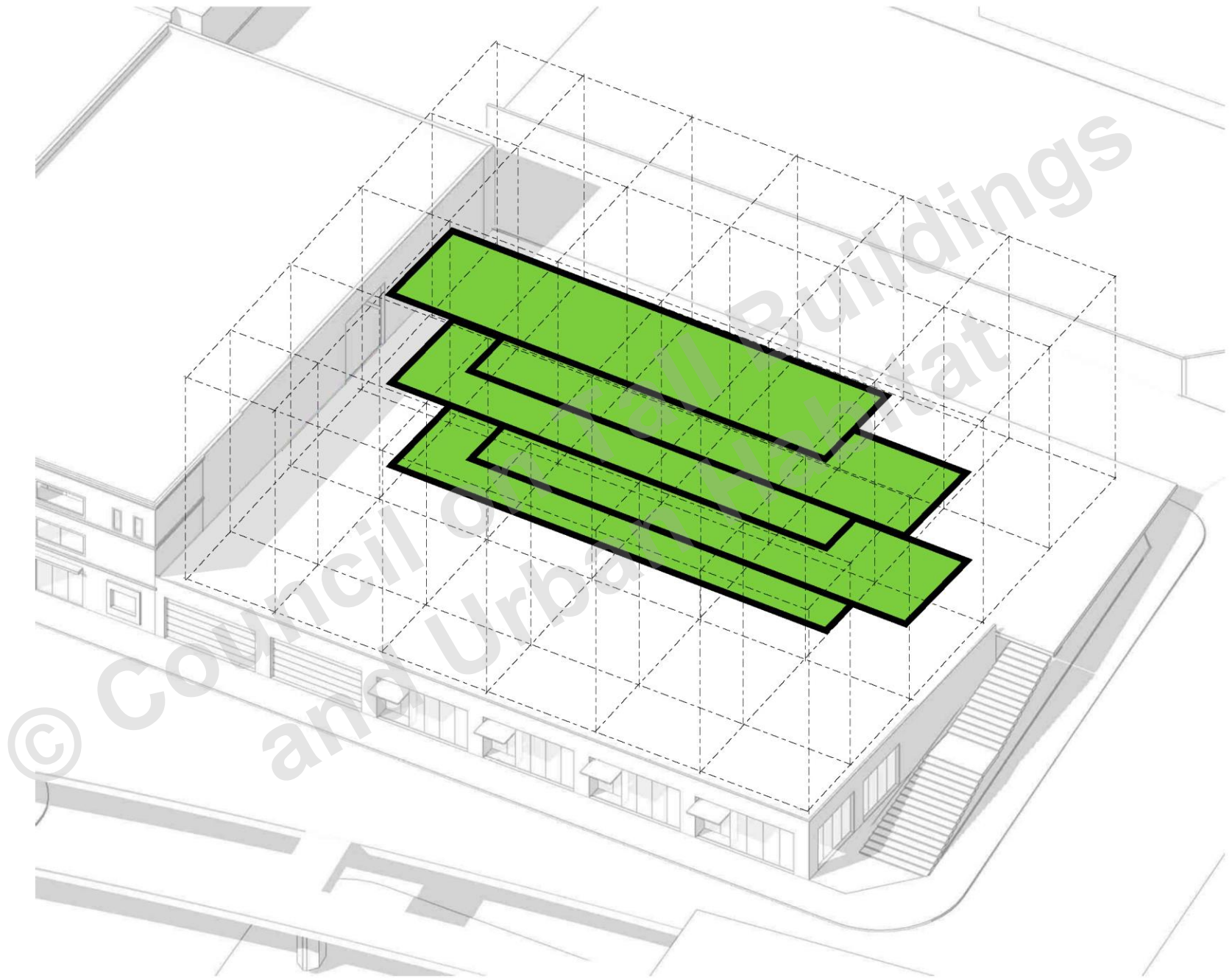
W College St

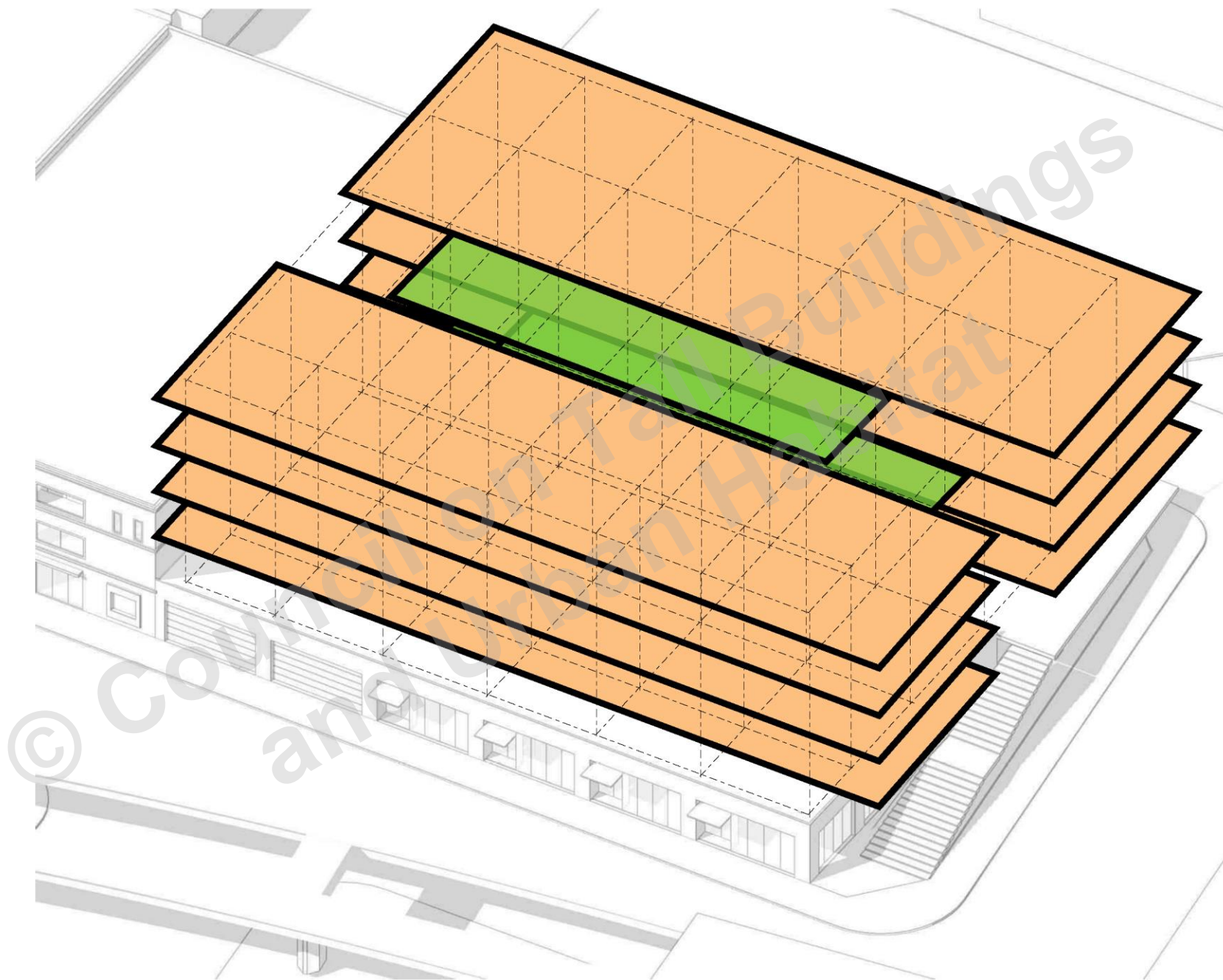
Alpine St

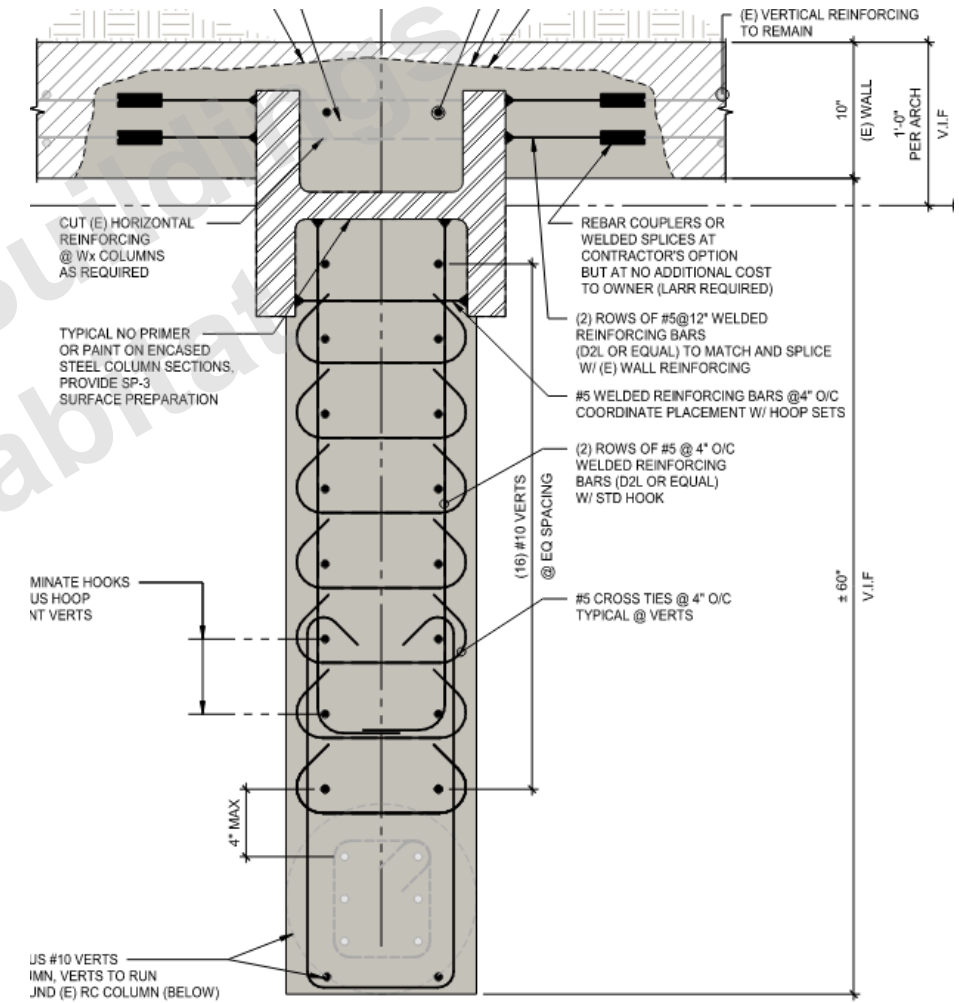
























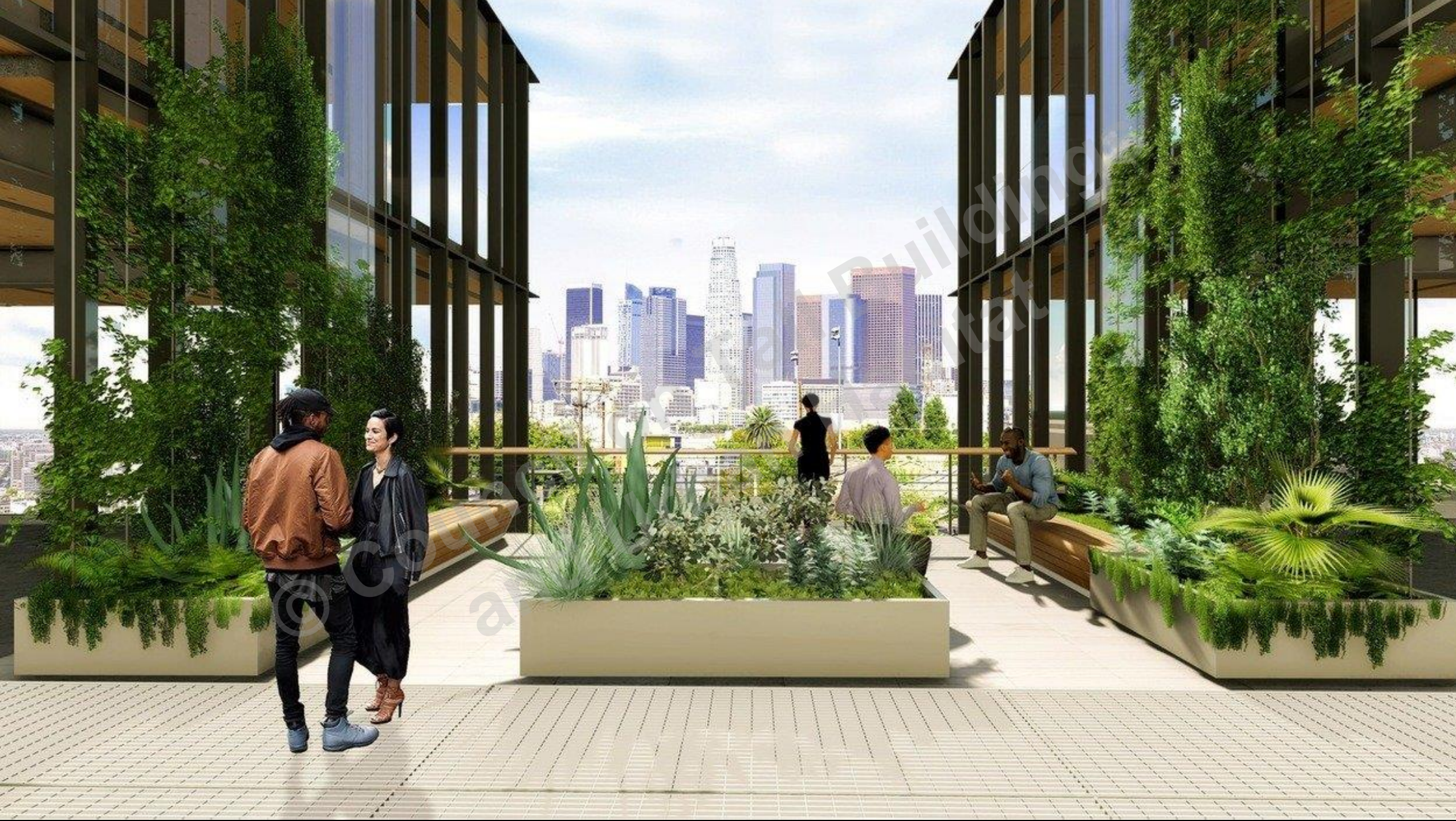
















Power production from PVs
220,000 kWh / year



Carbon sequestration from CLT structure
930 metric tons of CO₂
= 🚗 x 287 off the road for 1 year



Carbon reduction in concrete structure through reuse of existing full block structural slabs in Level 01 and garage



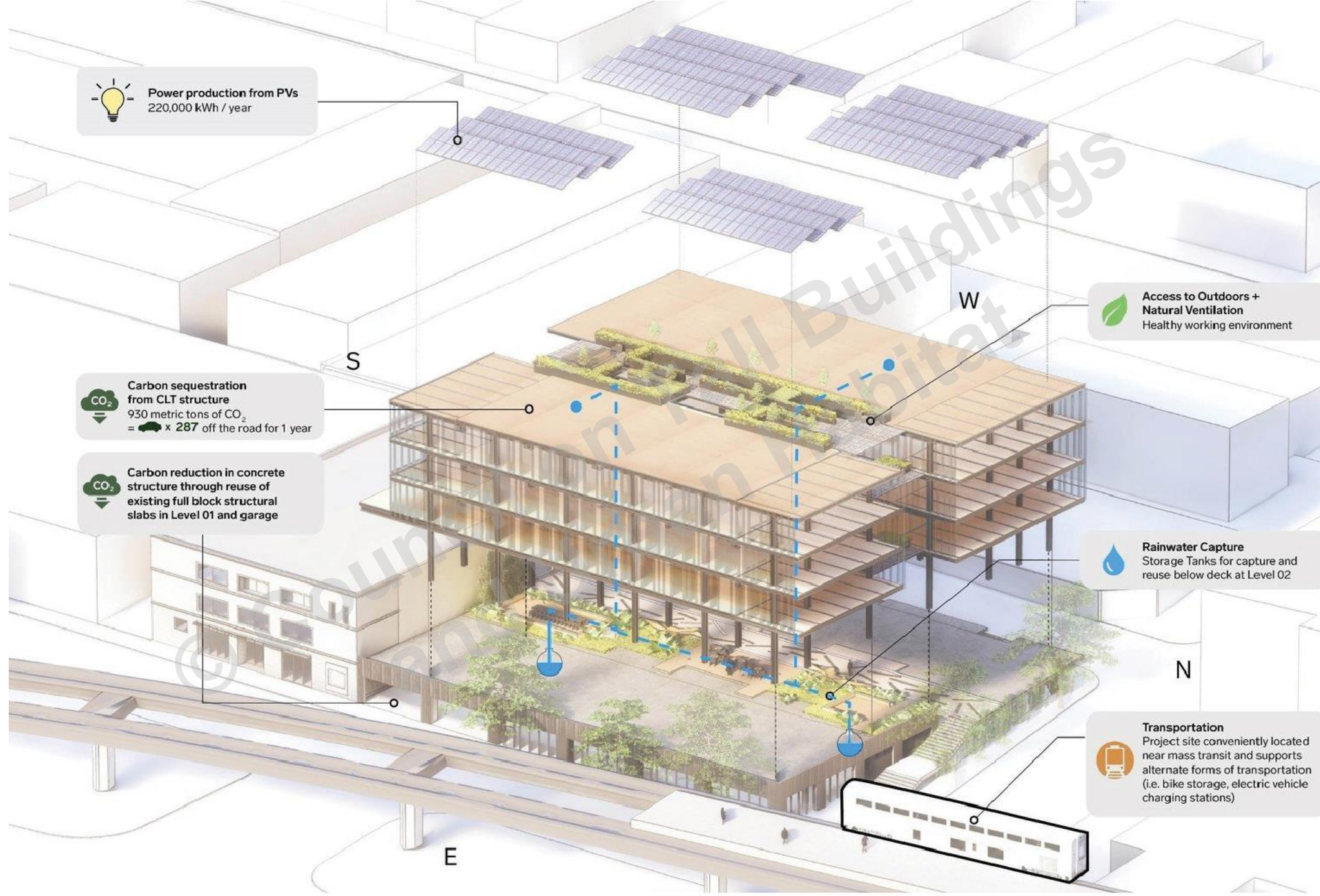
Access to Outdoors + Natural Ventilation
Healthy working environment



Rainwater Capture
Storage Tanks for capture and reuse below deck at Level 02

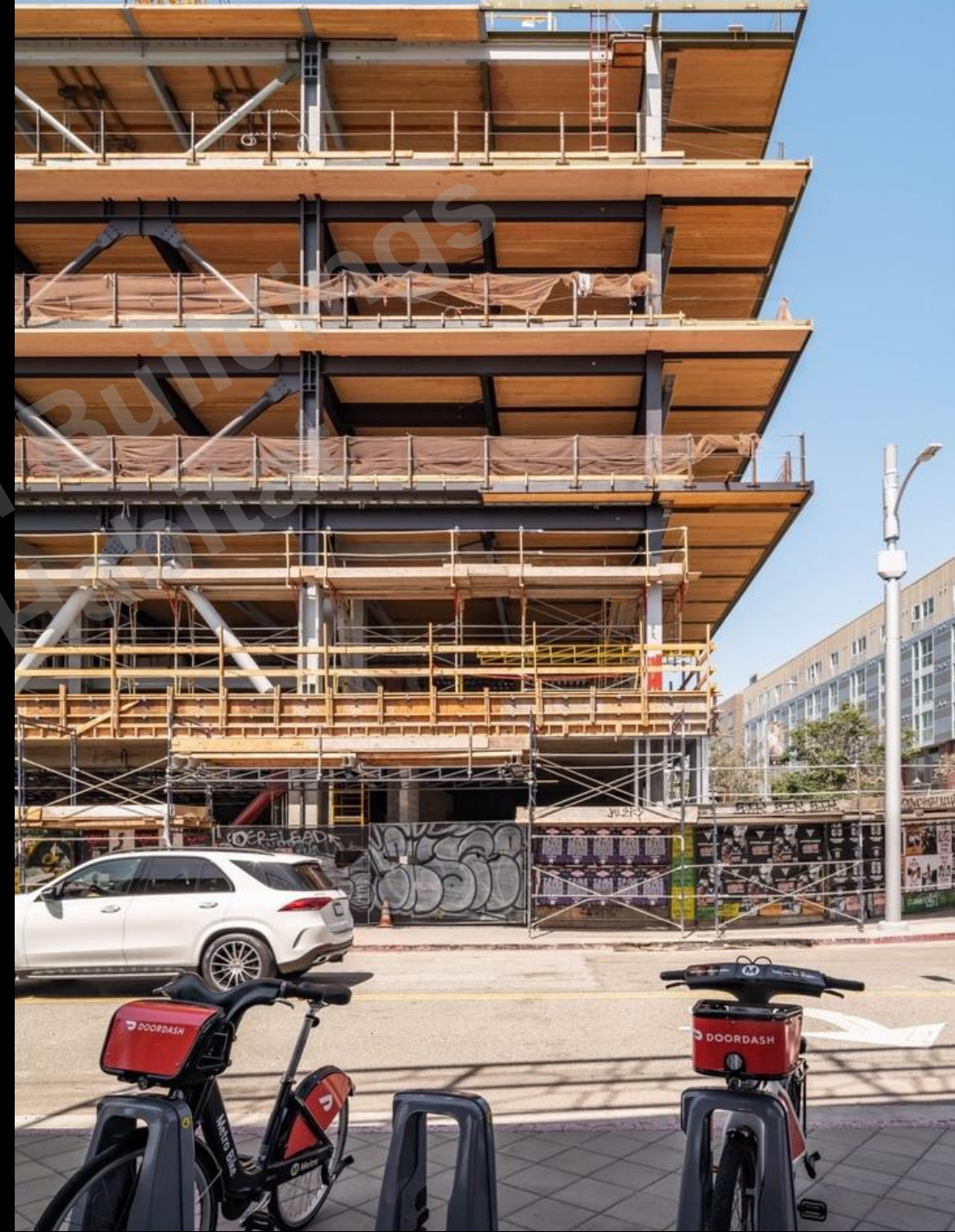


Transportation
Project site conveniently located near mass transit and supports alternate forms of transportation (i.e. bike storage, electric vehicle charging stations)













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