

NOVEMBER 7, 13, & 20, 2024

Evolution of Structures

Steel Castings in the Eye of the Design Team

Featuring Speakers from:

ELEM MdeAS

Severud Associates

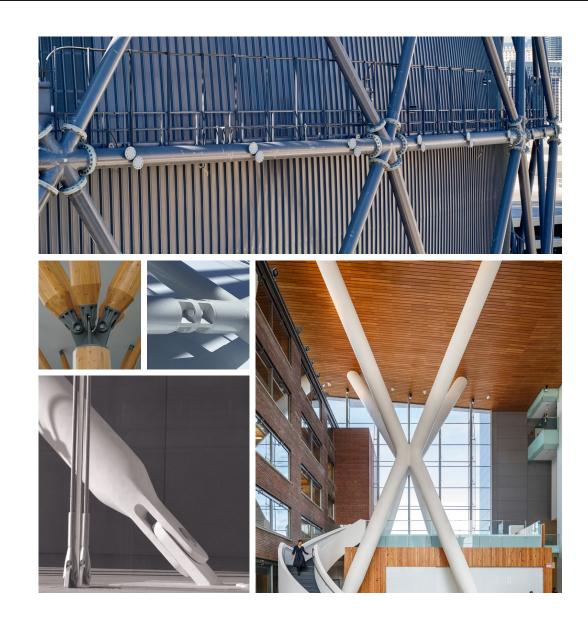


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innovative components for inspired designs

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We take pride in collaborating in the creation of safer, innovative, and more beautiful built environments.





PENN 2:

Creating a Future Destination

CASTINGS303-24 | 1LU/HSW | Live Webinar | Introductory | Prerequisites: None AIA CES PROVIDER NUMBER:404108320

Speakers: Mike Zaborski, RA

Principal | MdeAS Architects

Matthew Peitz, PE, SE

Principal | Severud

 $M^{de}AS$

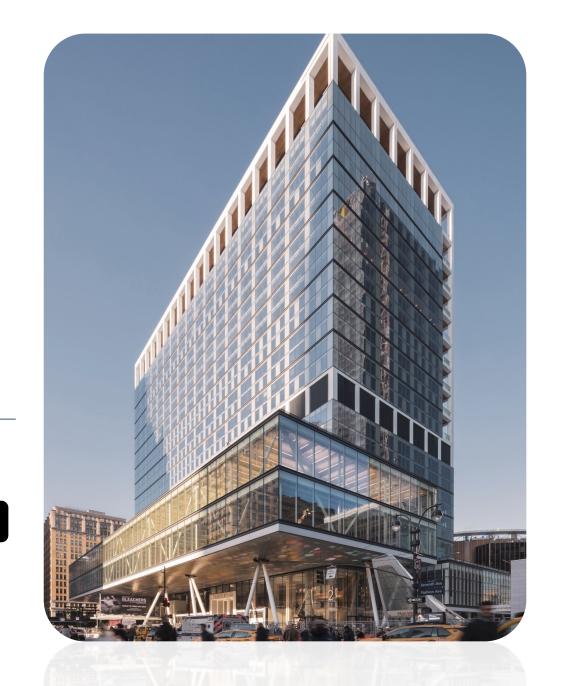
Severud Associates
CONSULTING ENGINEERS P.C.

Moderator: Jennifer Pazdon, P.E., M.Sc.Eng

Vice President, USA & Director, UK

Division | CAST CONNEX





COURSE DESCRIPTION

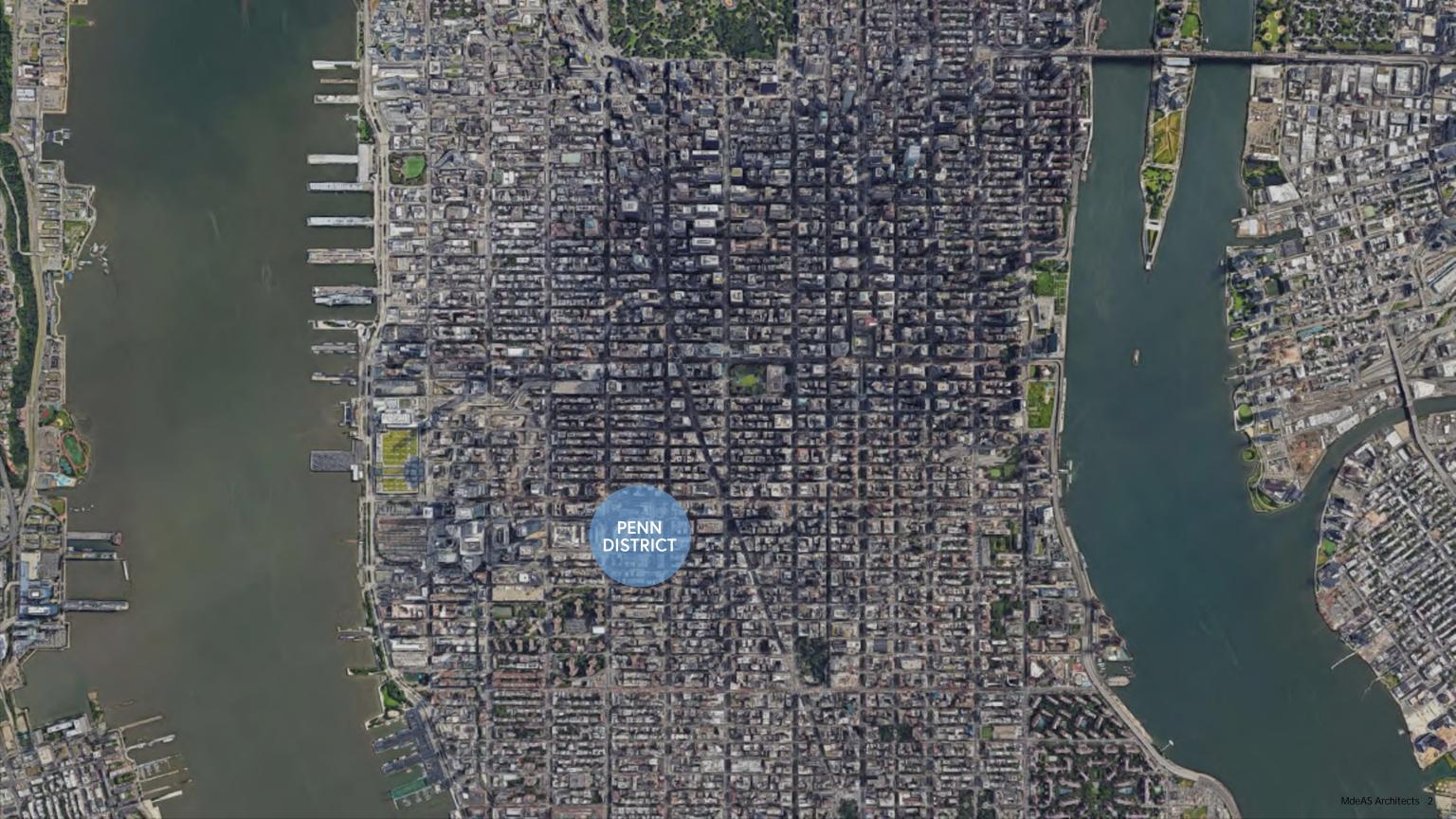
This presentation will describe the design and engineering process behind the renovation and expansion of PENN 2, a 1960s office building positioned directly above the largest public transportation hub in the Western hemisphere: Penn Station. The addition to the building, dubbed The Bustle, is perched nearly 50 feet above the ground and supported by sloping columns that rest upon the original station's foundations. The top and bottom cast steel pin connectors of these columns are celebrated as a beautiful architectural element of the project, connecting to custom-formed gusset plates that elegantly engage with the plaza below and the LED ceiling above. The double-height, free-spanning floors of The Bustle are also supported by chevron bracing HSS columns with cast steel pin connectors. The column-free space within is unlike anything else in New York City, spanning 430 feet long by 75-feet wide by 25-feet high.

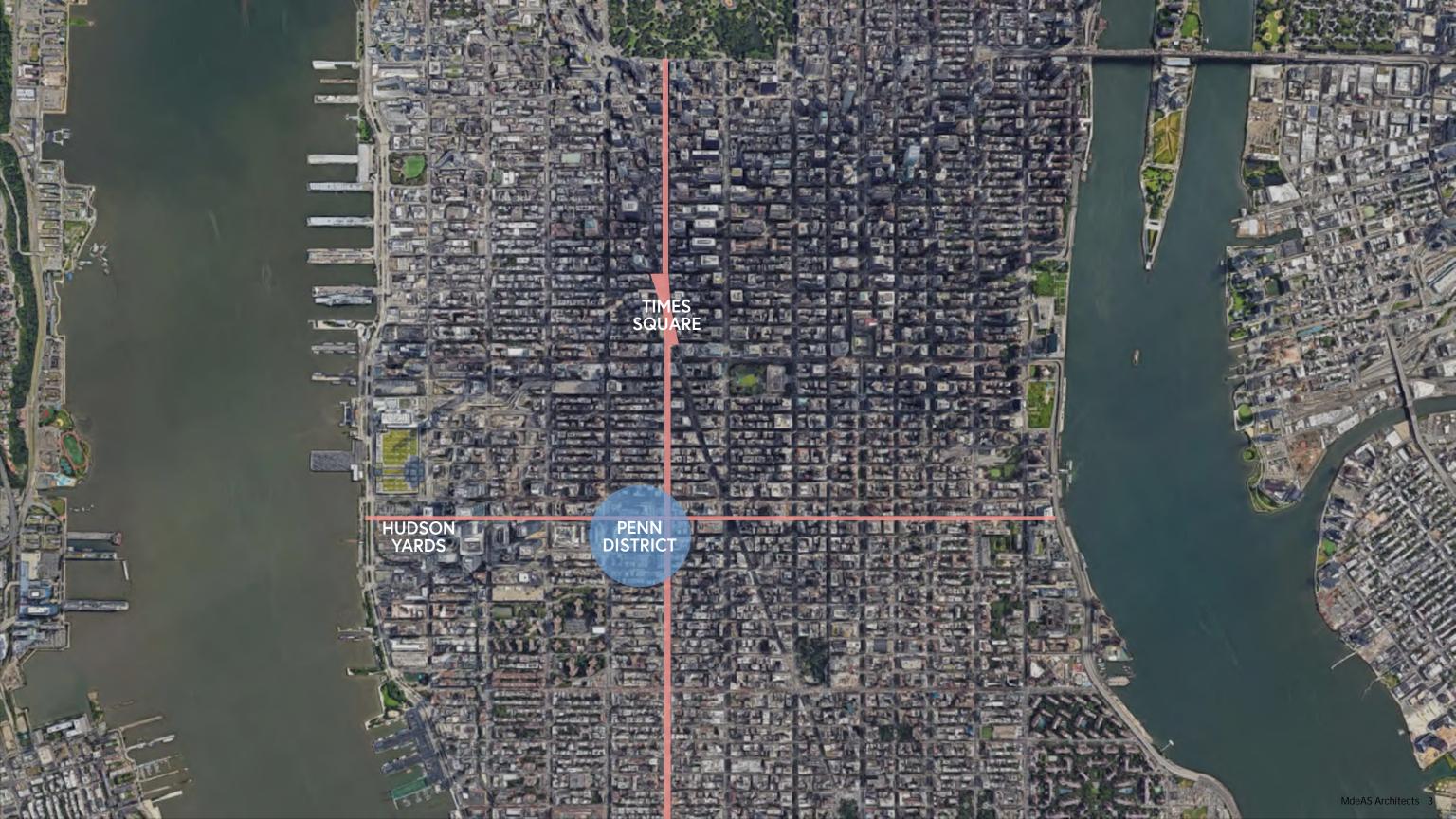
This presentation will also discuss major design elements such as the new triple-height glass fin lobby and the over-cladding of the existing building's façade with a new high-performance curtain wall. Ultimately, the strategic repositioning of the building has created a new building without demolishing the existing structure.

LEARNING OBJECTIVES

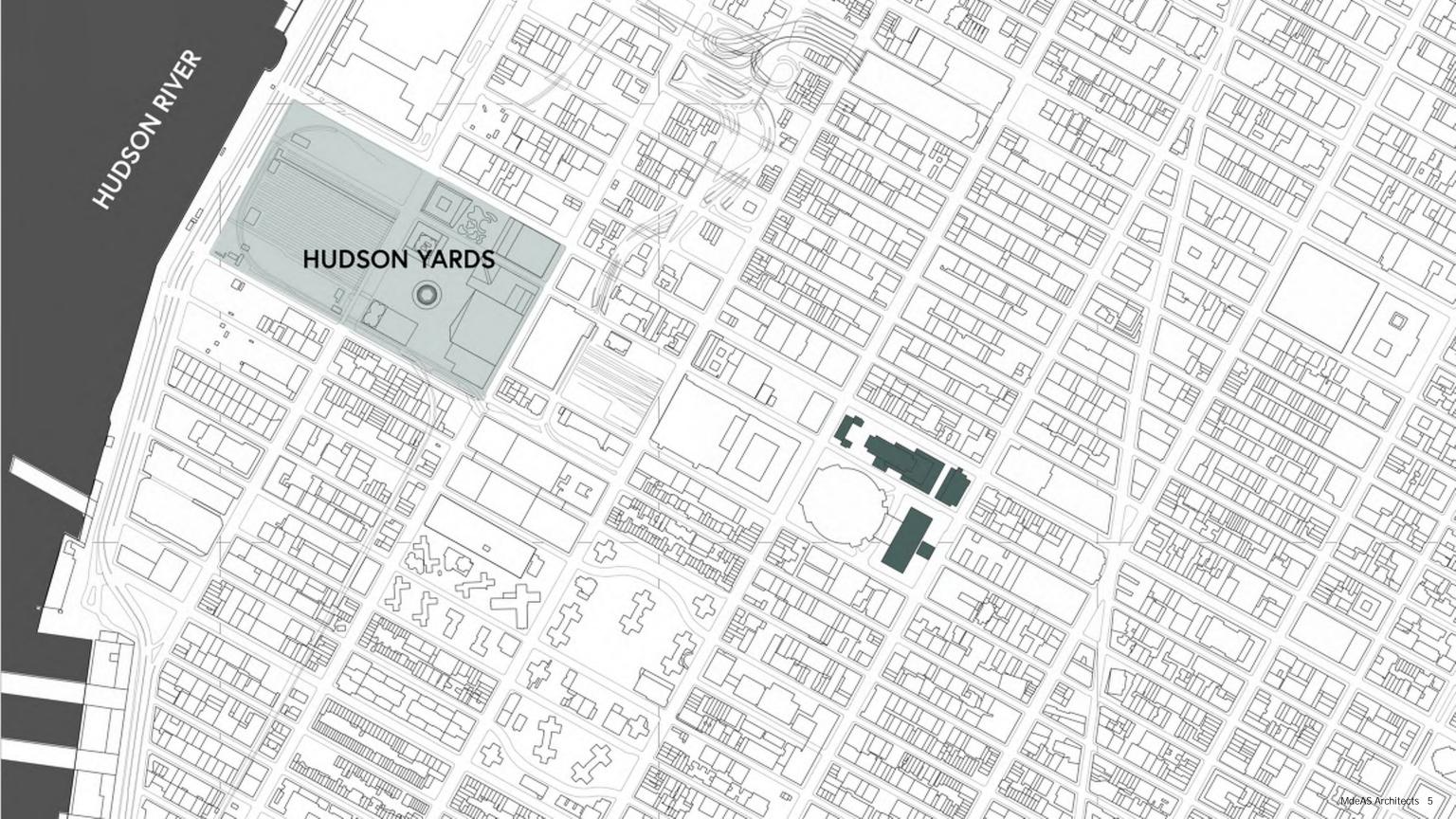
- 1. Understand strategies for structural modifications of existing buildings.
- 2. Examine repositioning as a sustainable strategy for preserving embodied carbon and improving the energy performance of buildings.
- 3. Identify design elements that create successful retail, workspace, and public space projects.
- 4. Explore architectural and structural applications of standardized cast steel pin connectors.





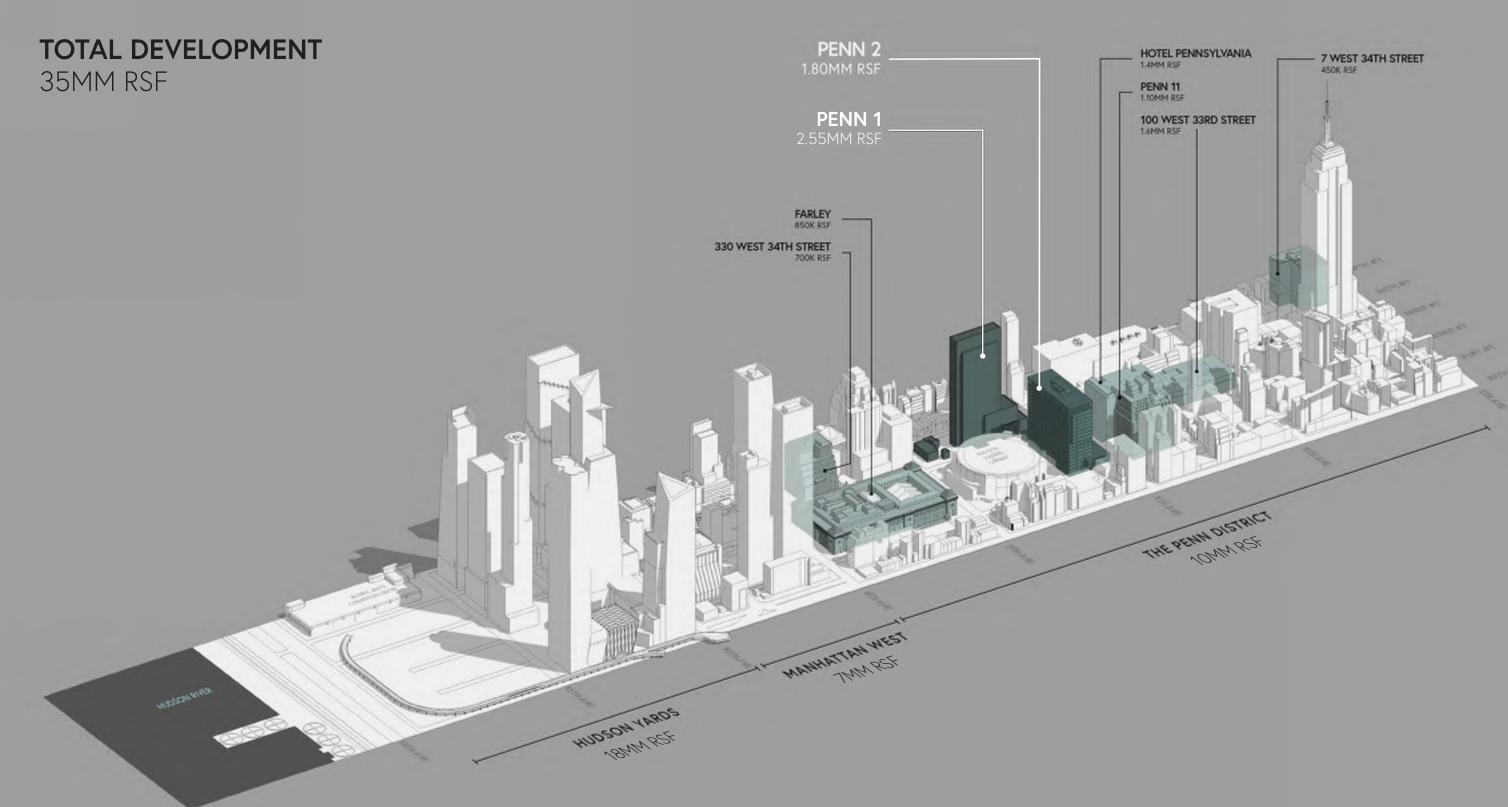


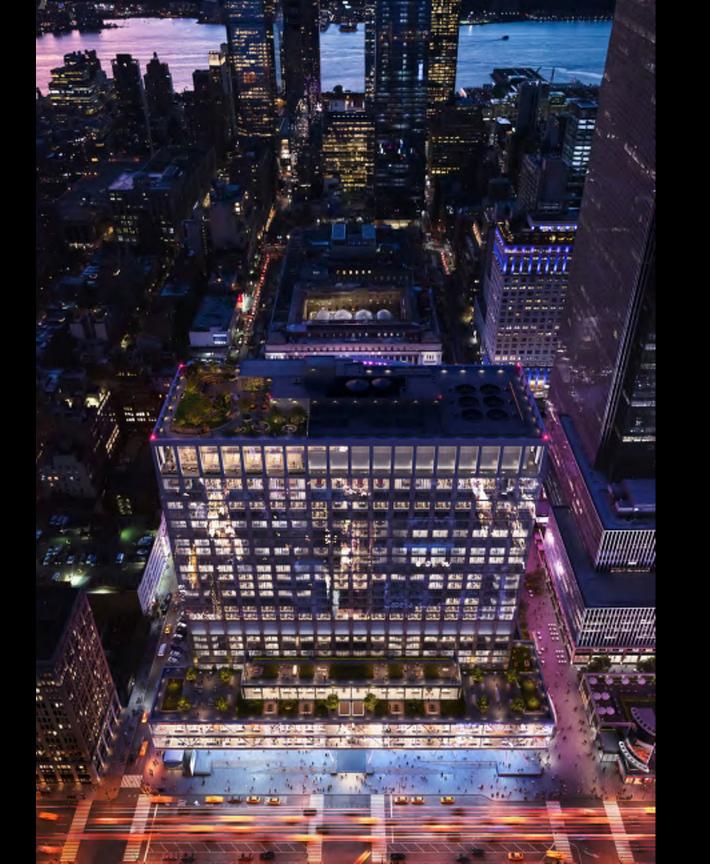




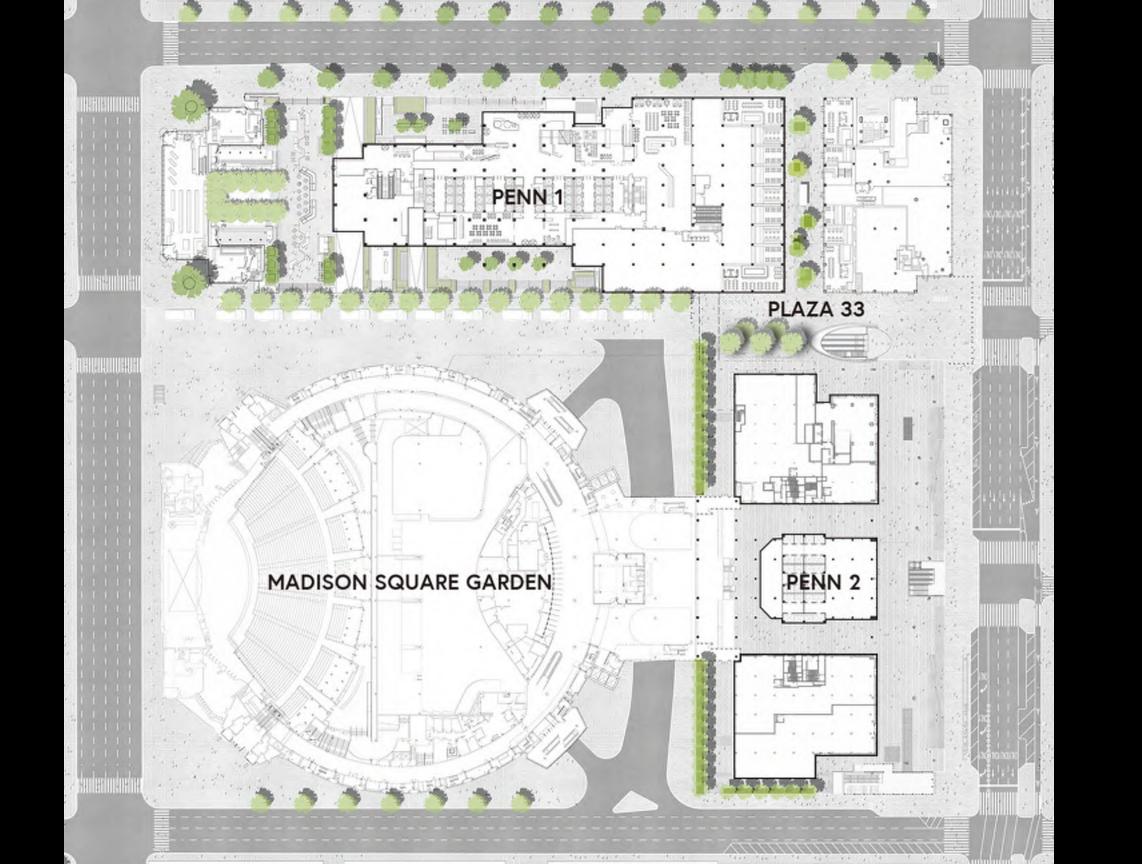


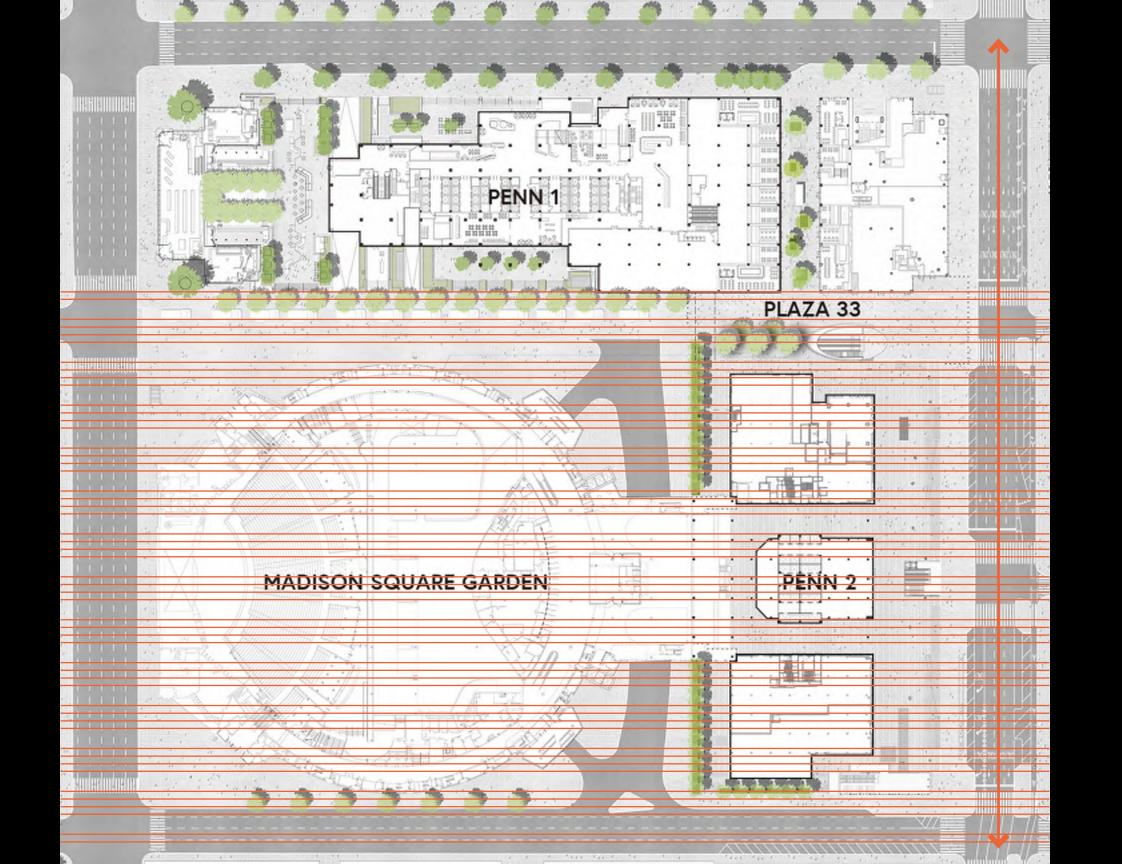










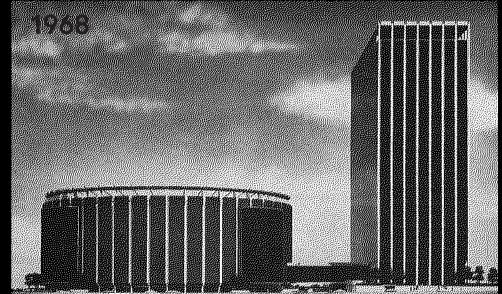












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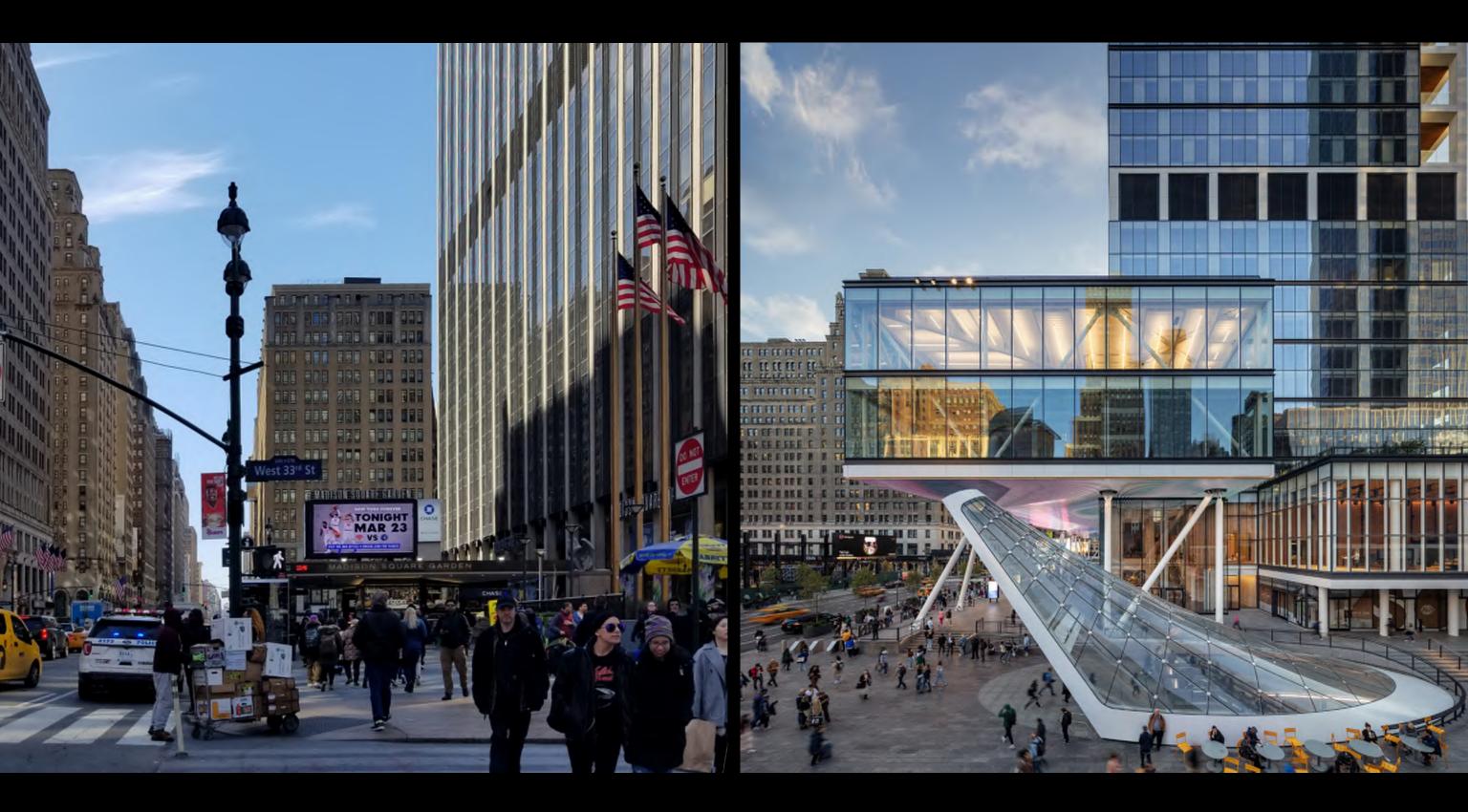
-a new international landmark









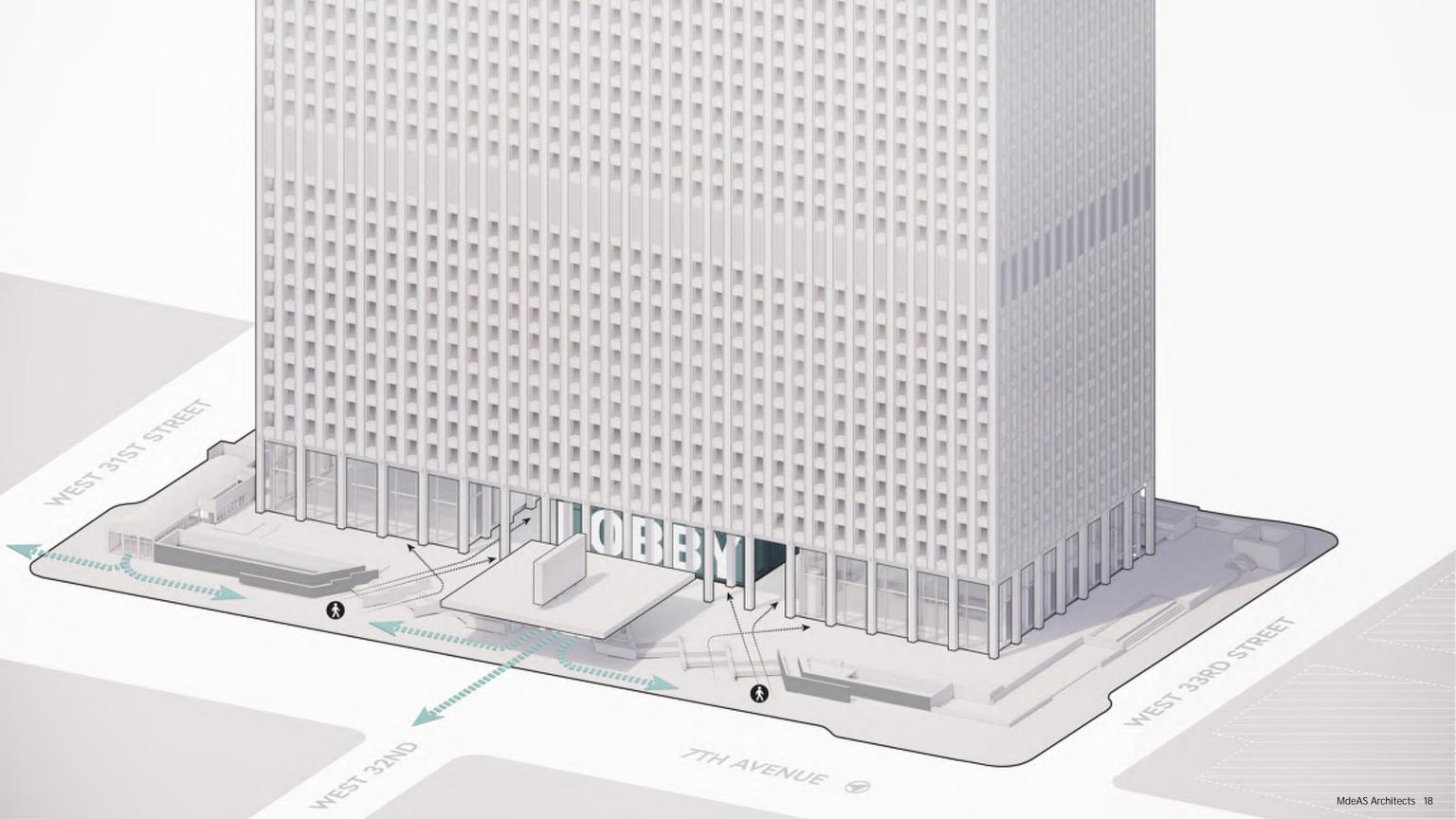


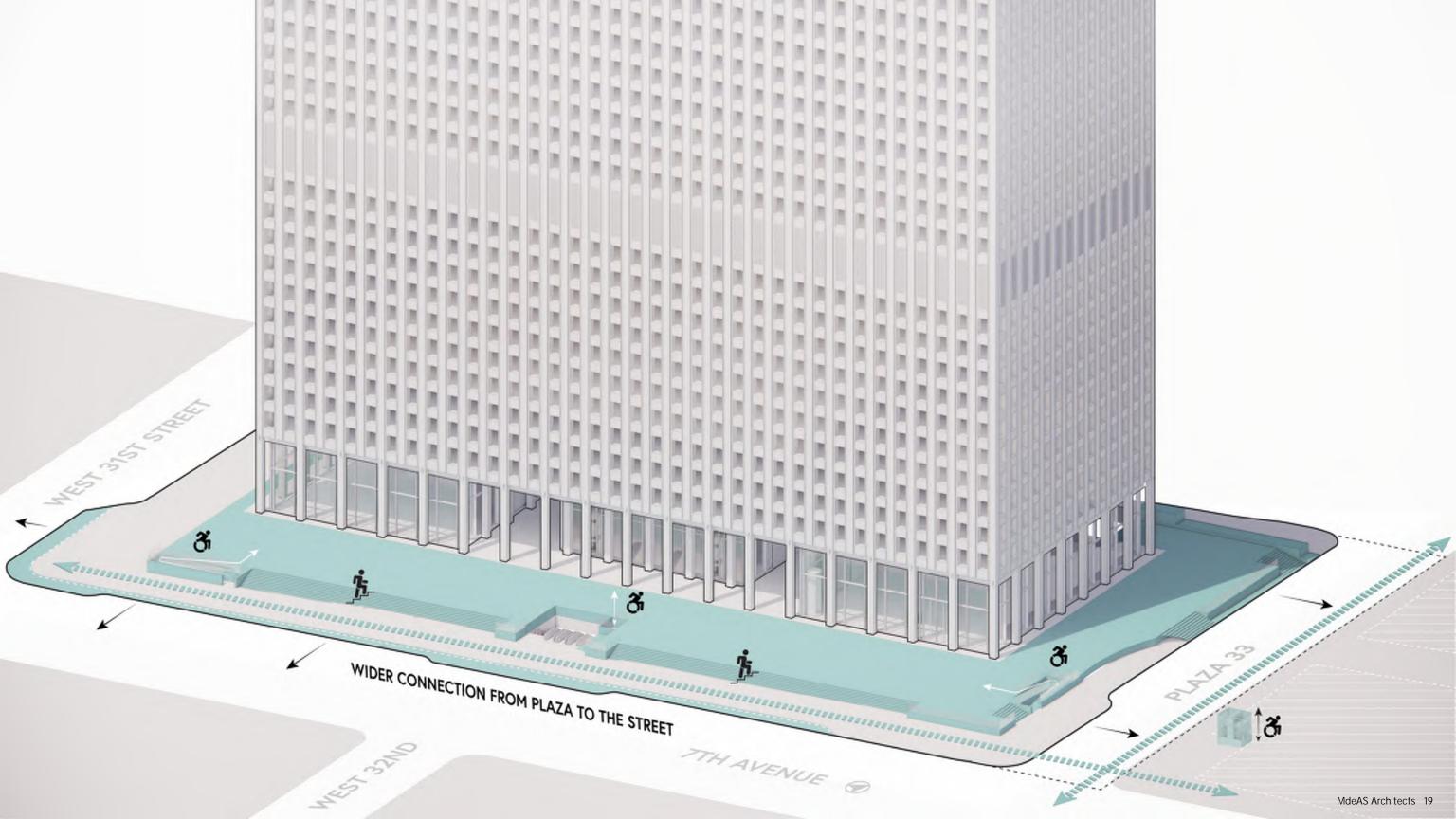


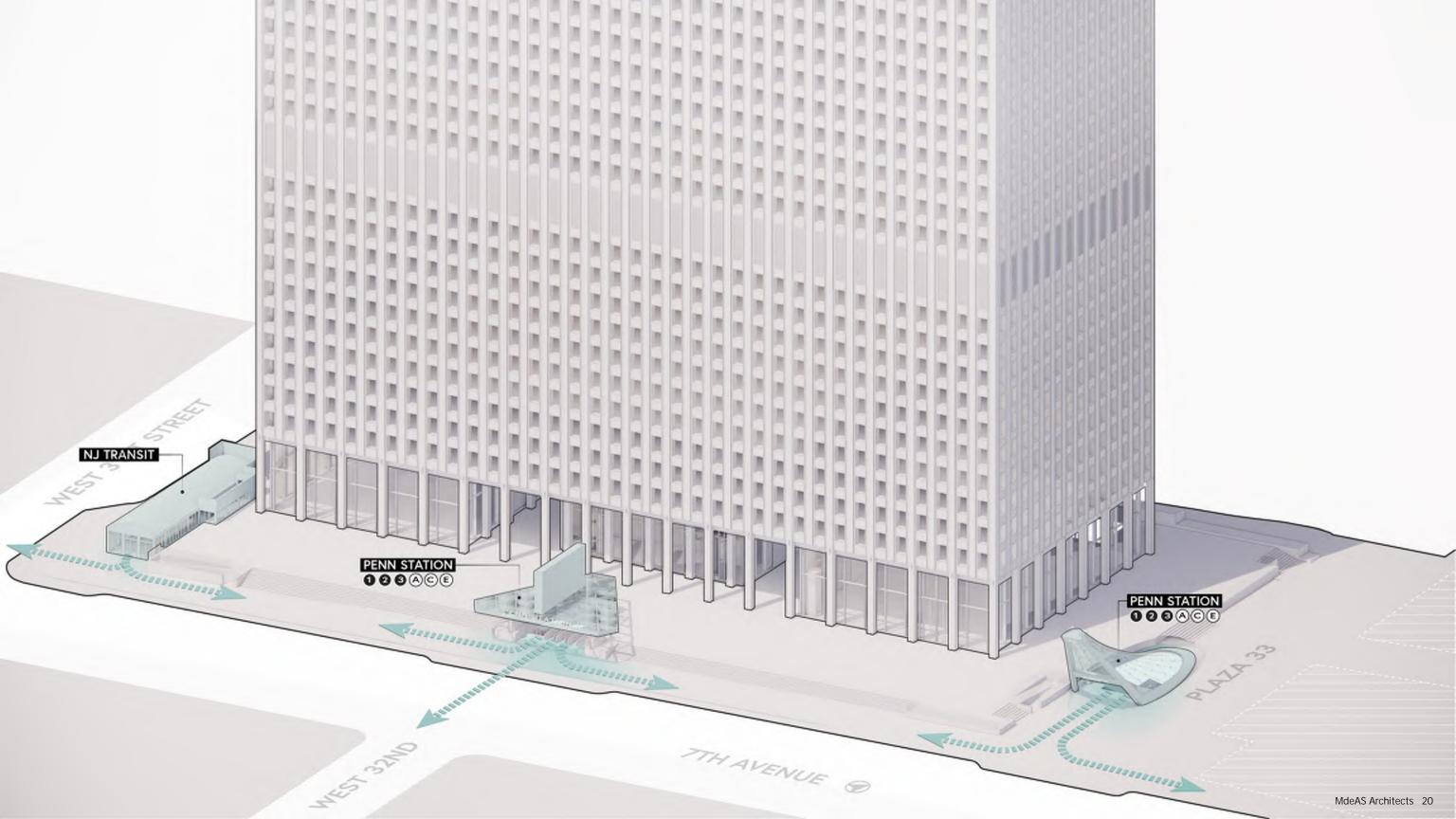
TRANSFORM WORKPLACE

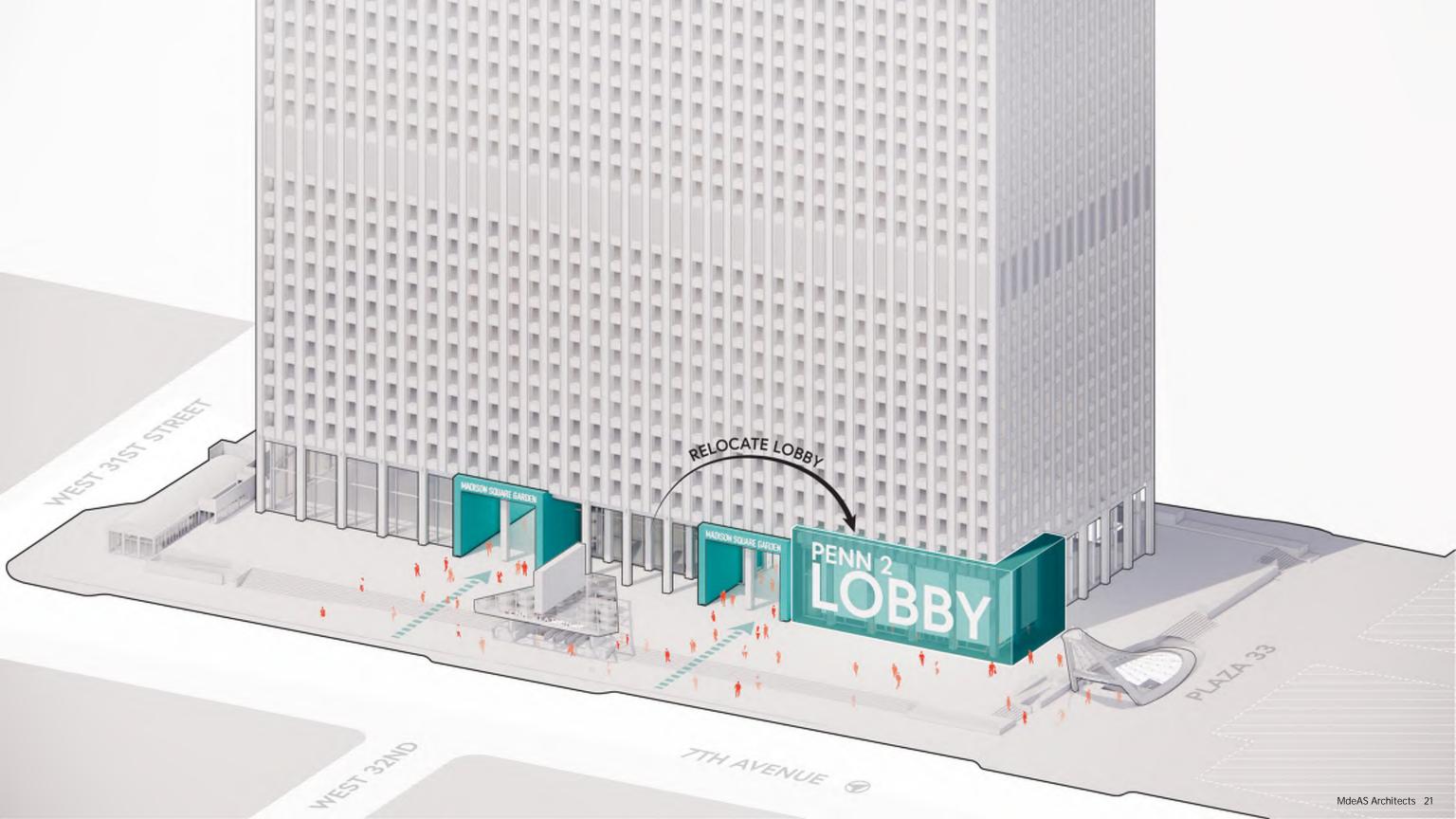
CREATE A ONE-OF-ONE SPACE

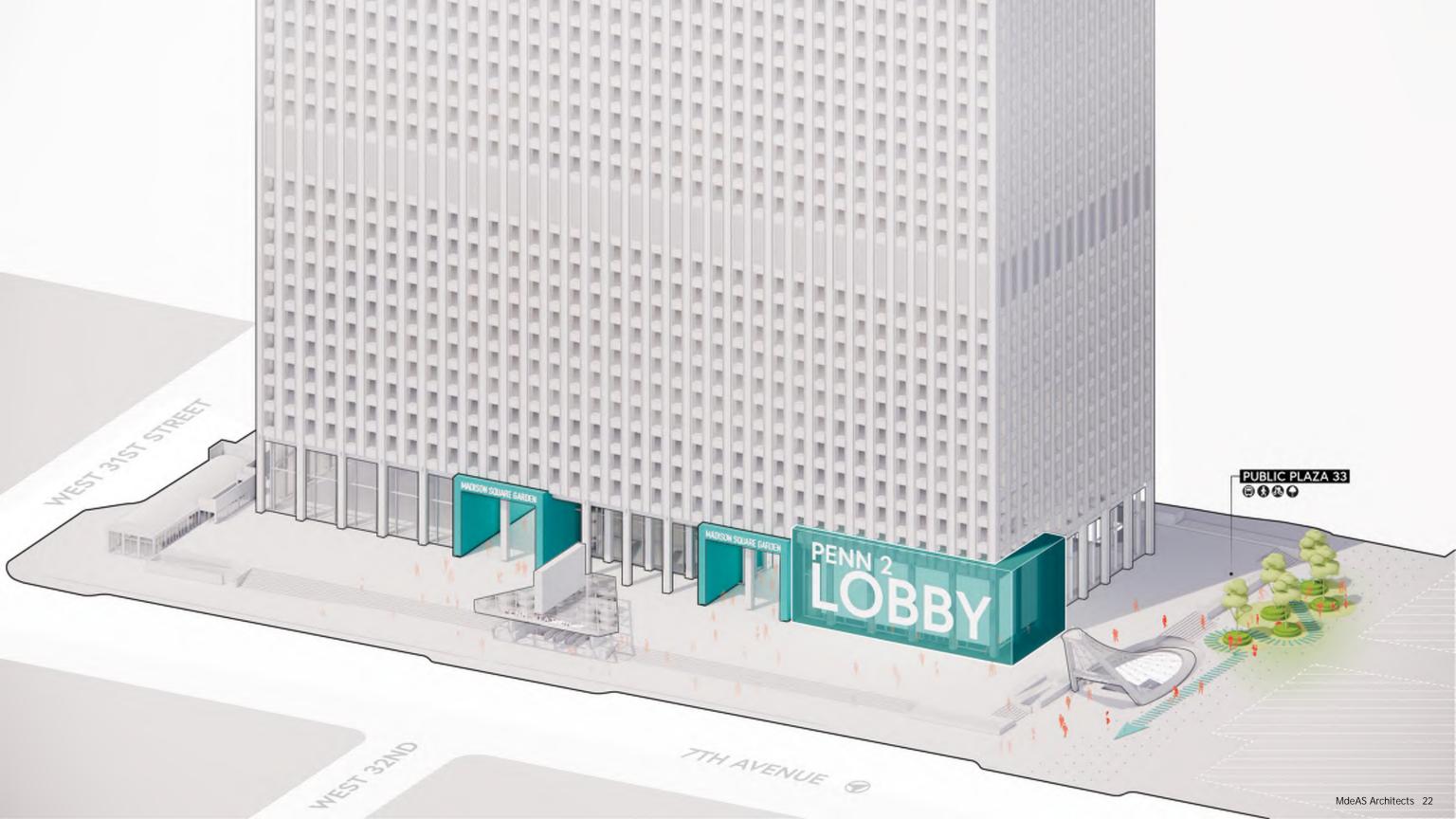
ACTIVATE FIRST 50'
UNTANGLE URBAN EXPERIENCE

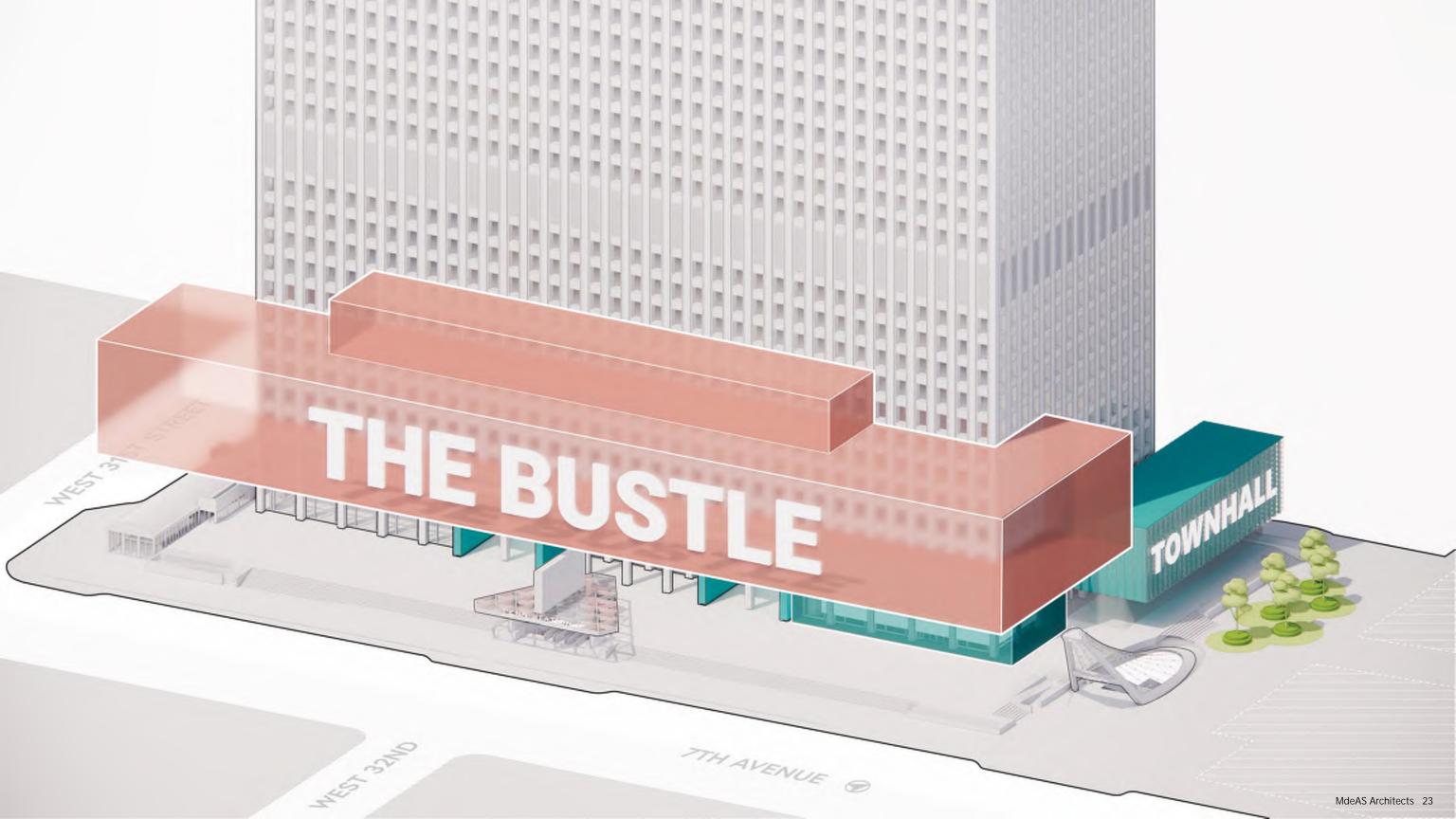


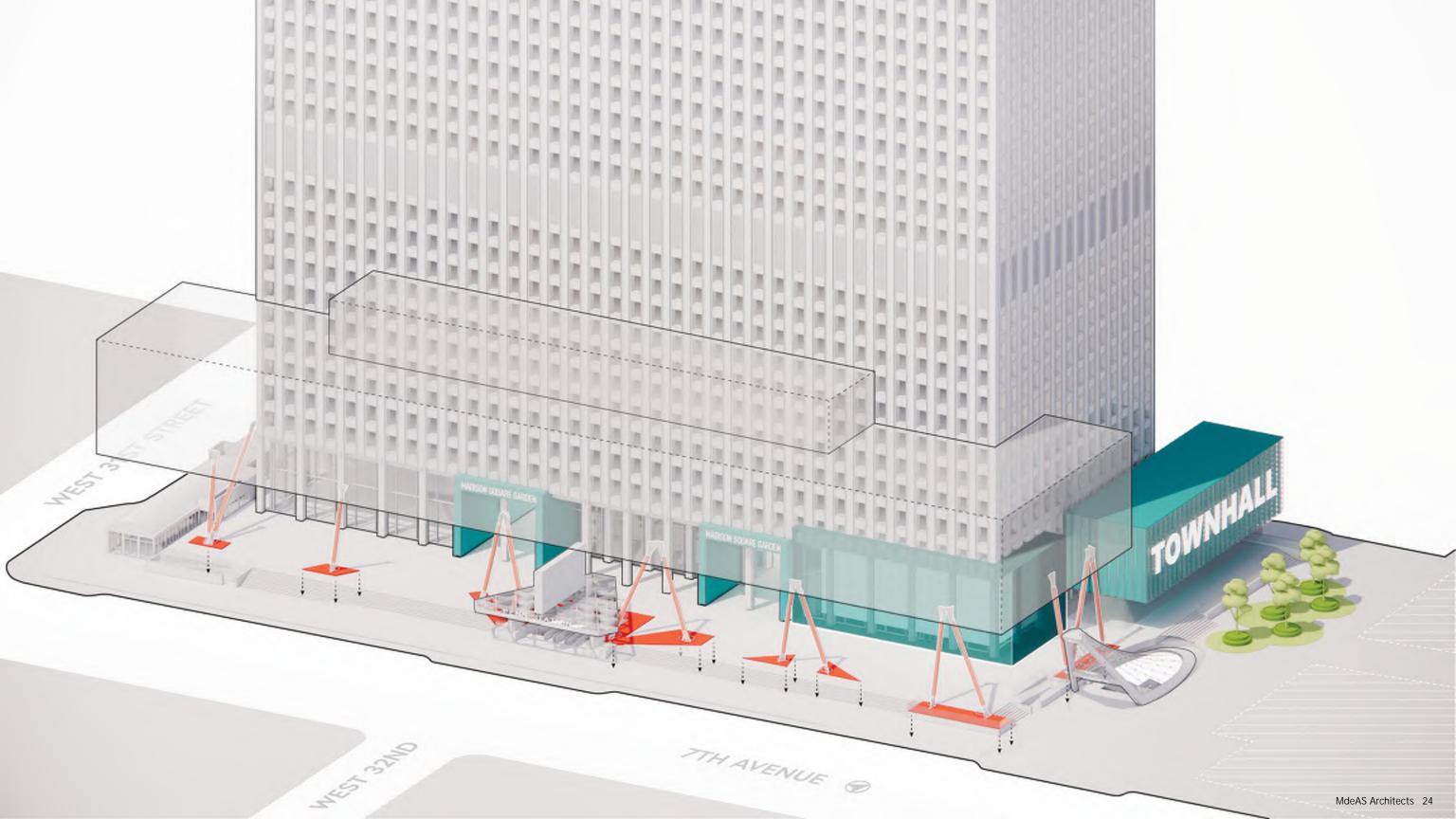


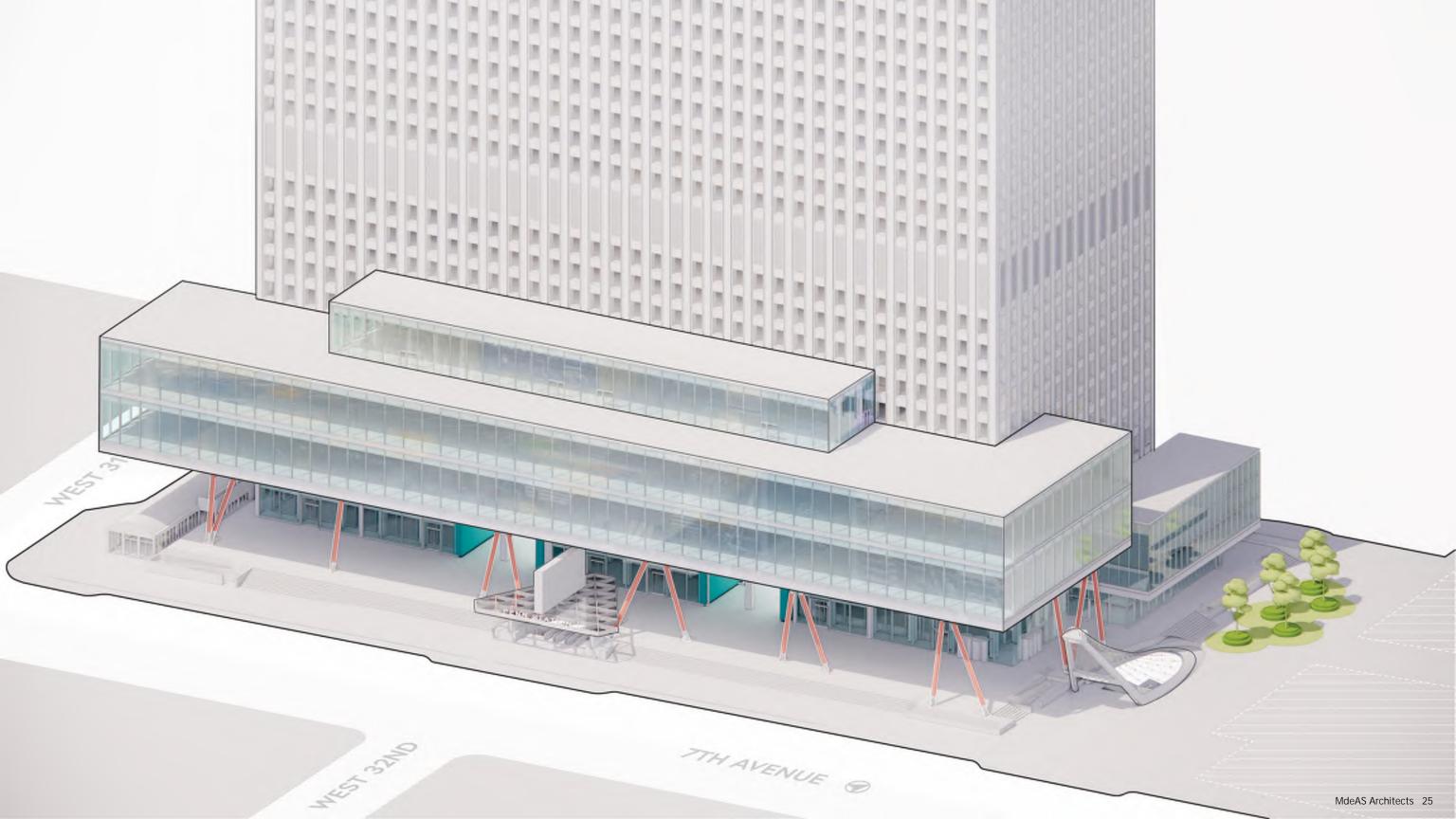


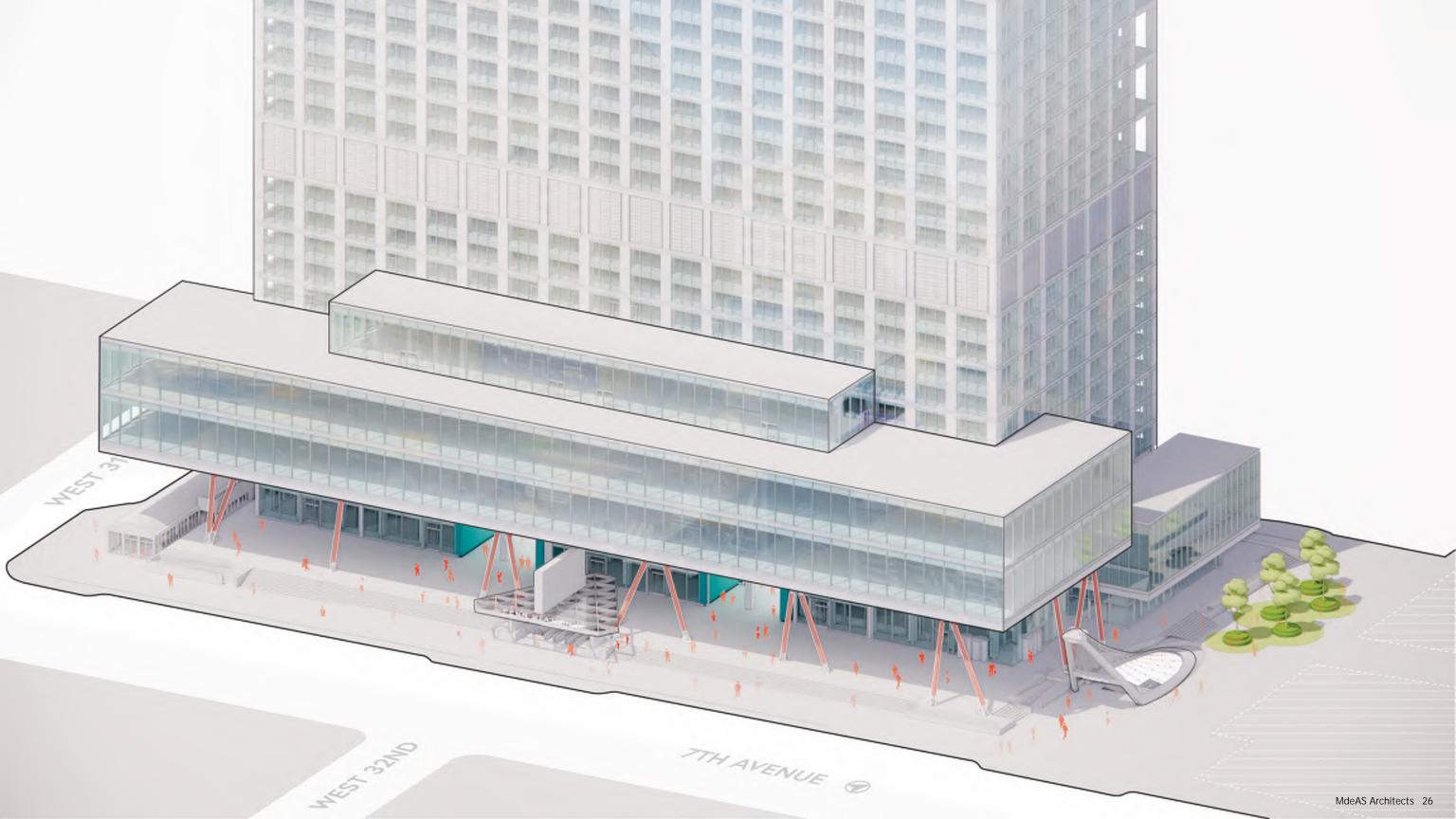


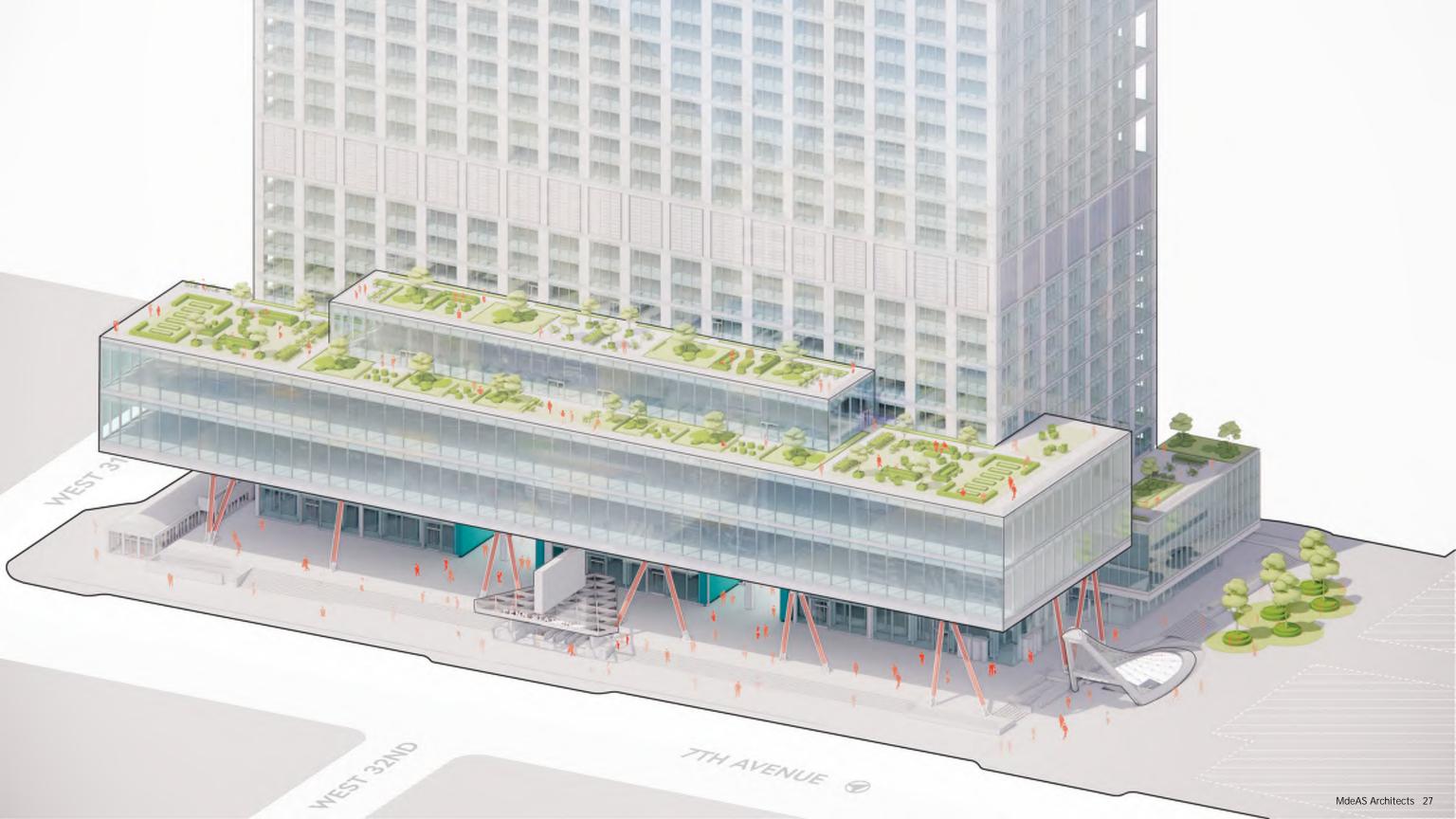










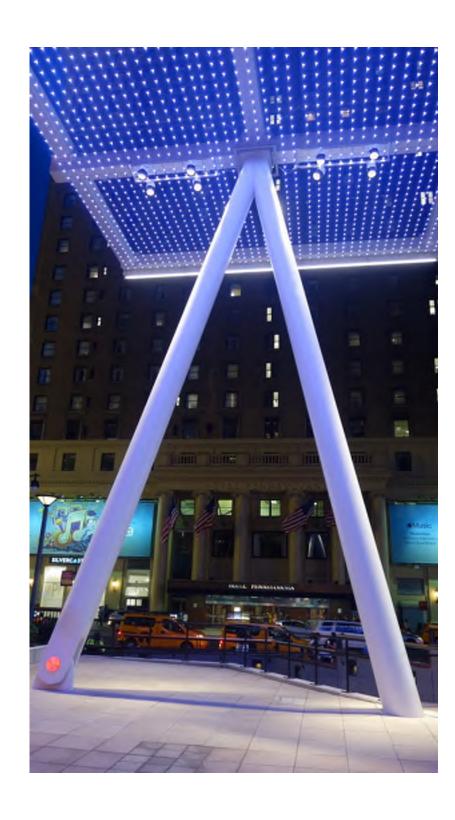


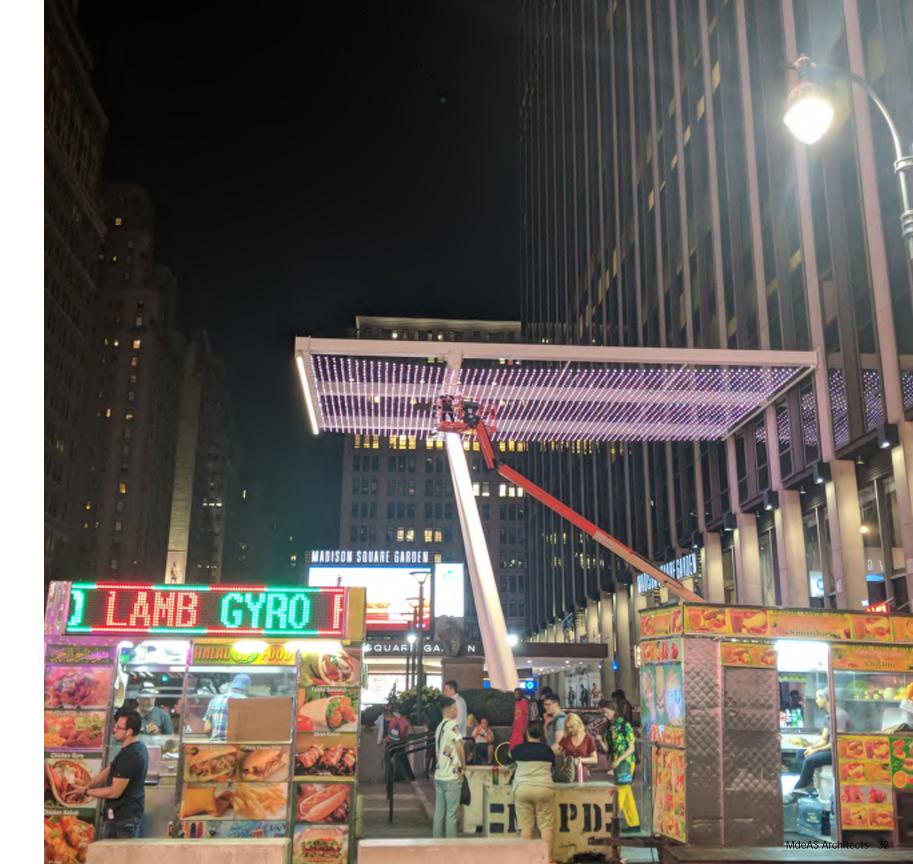




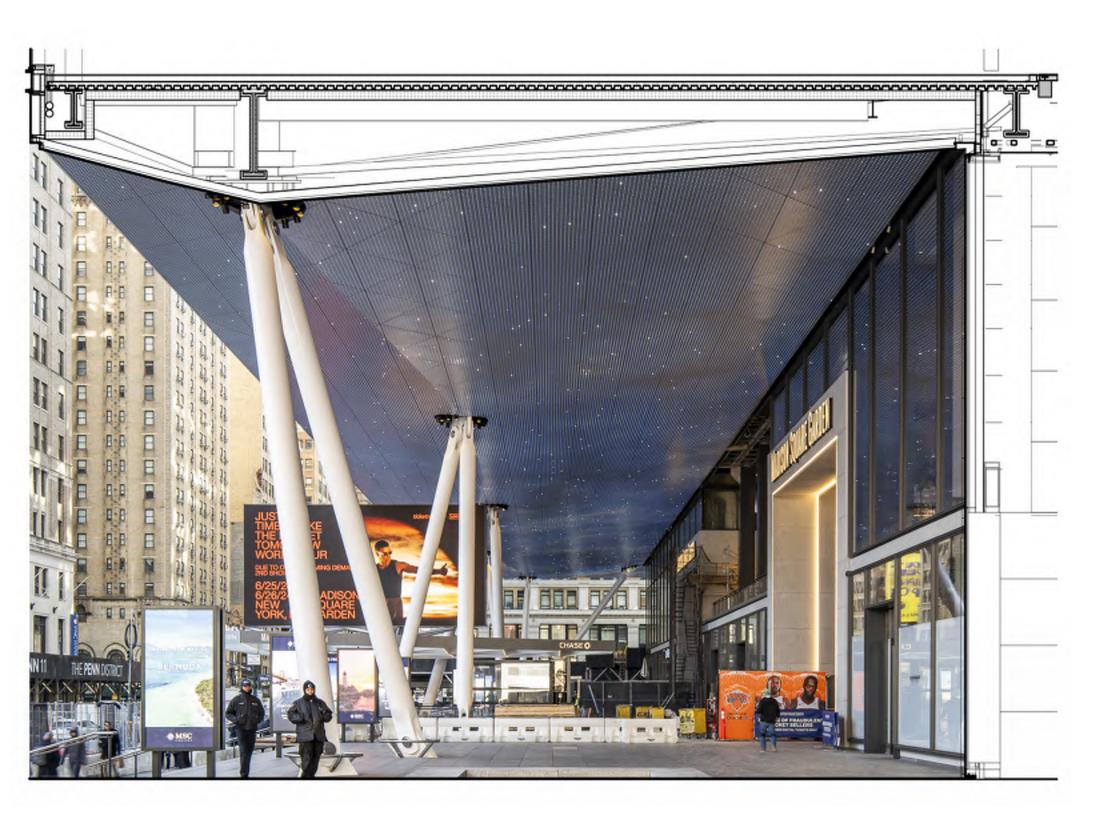




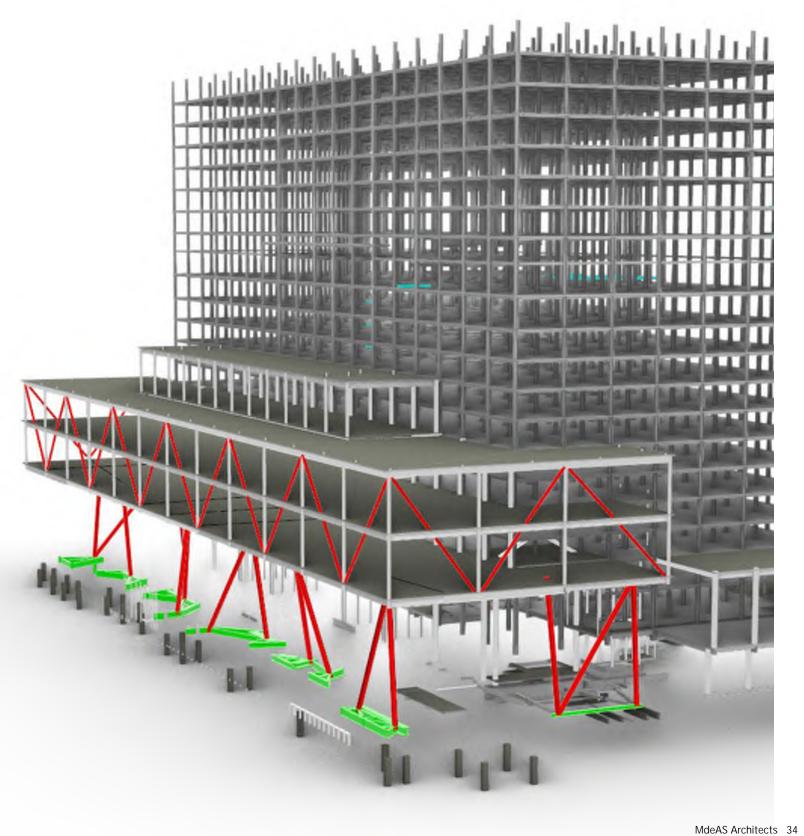


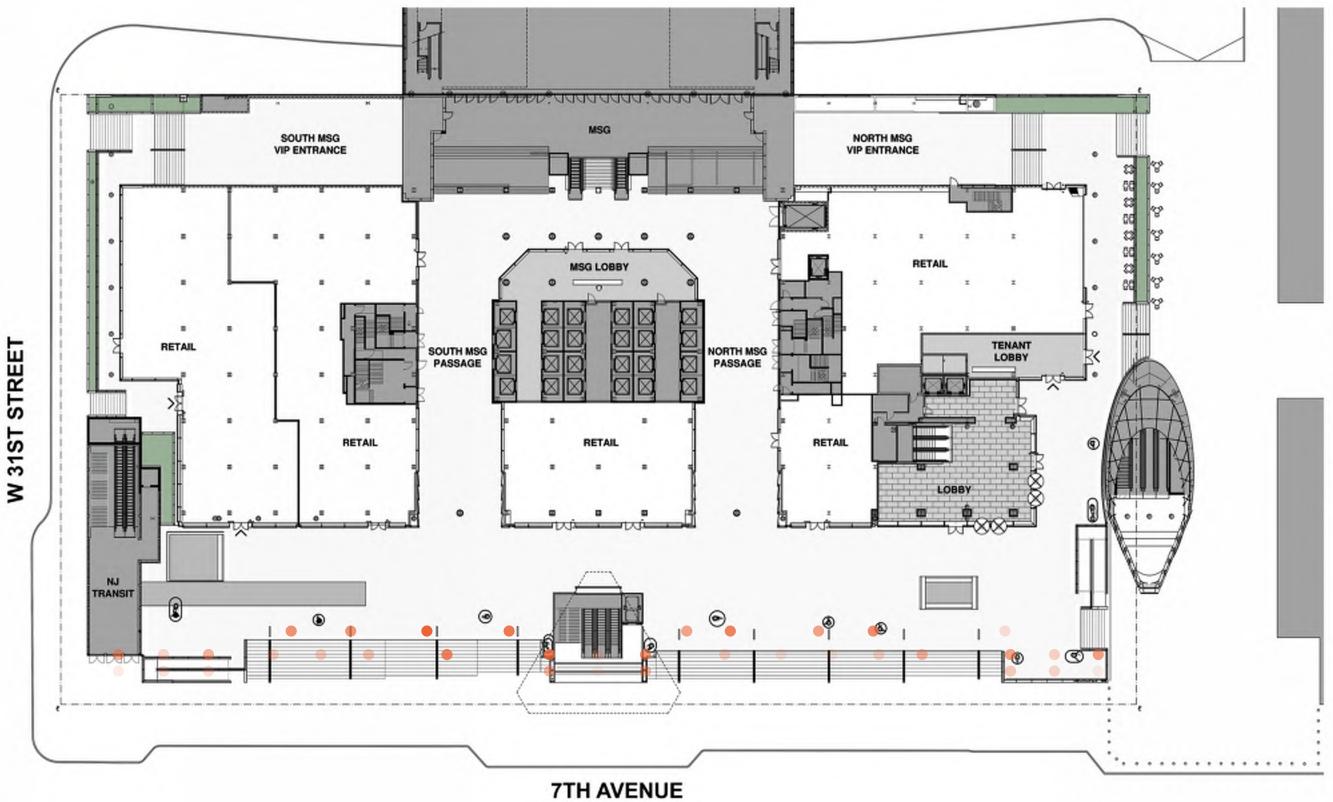


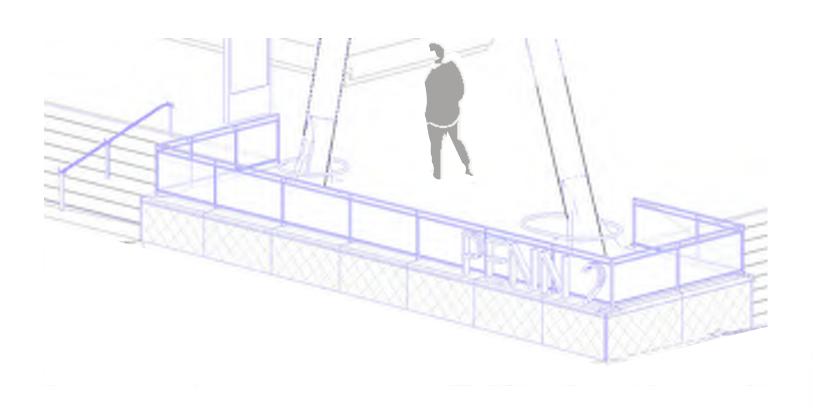


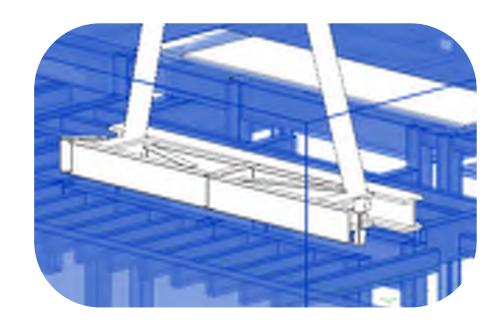


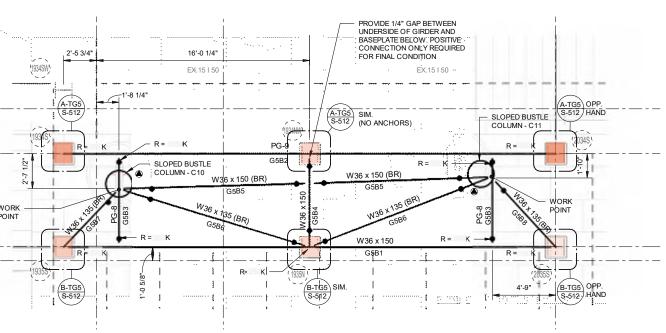


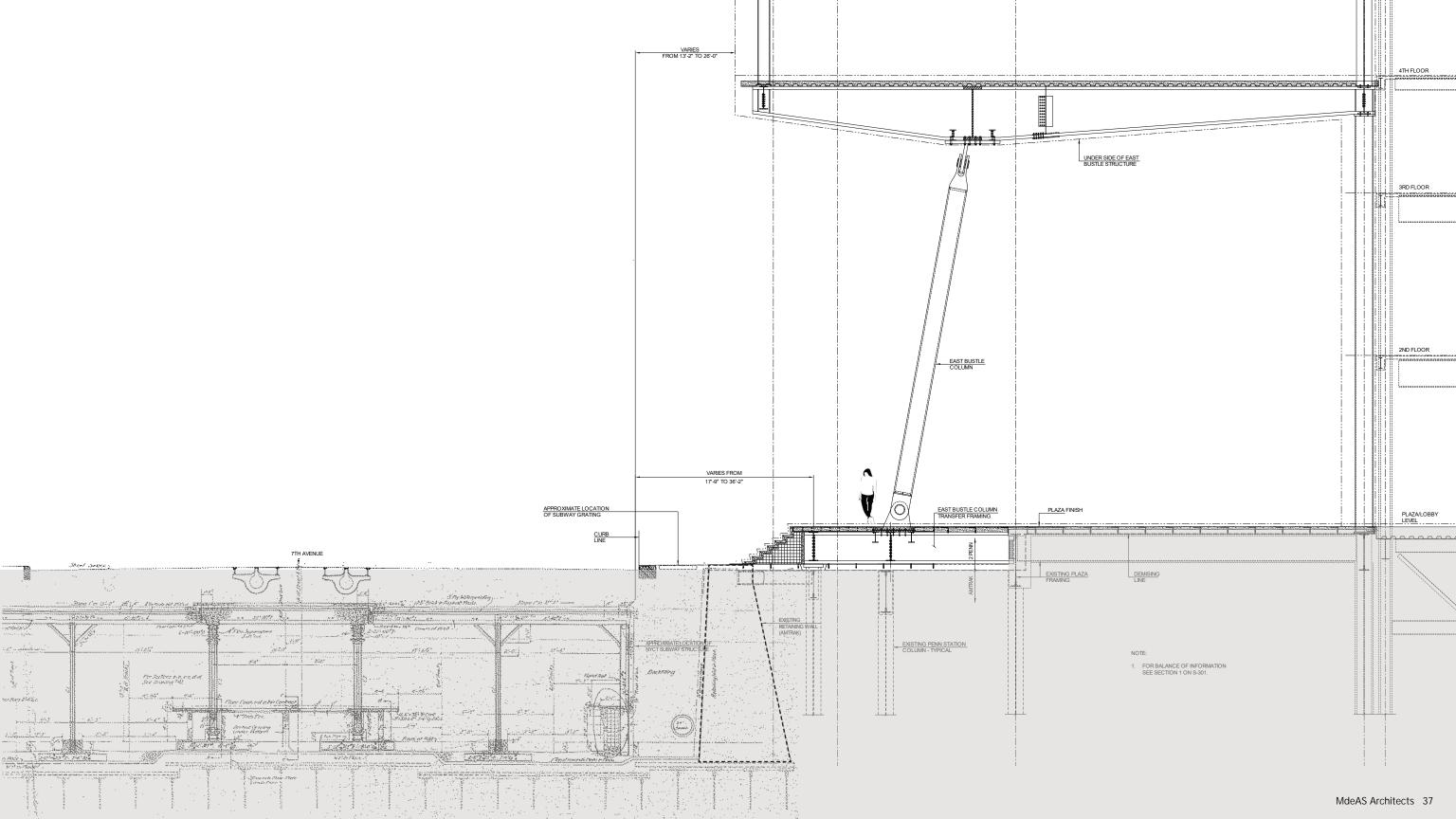


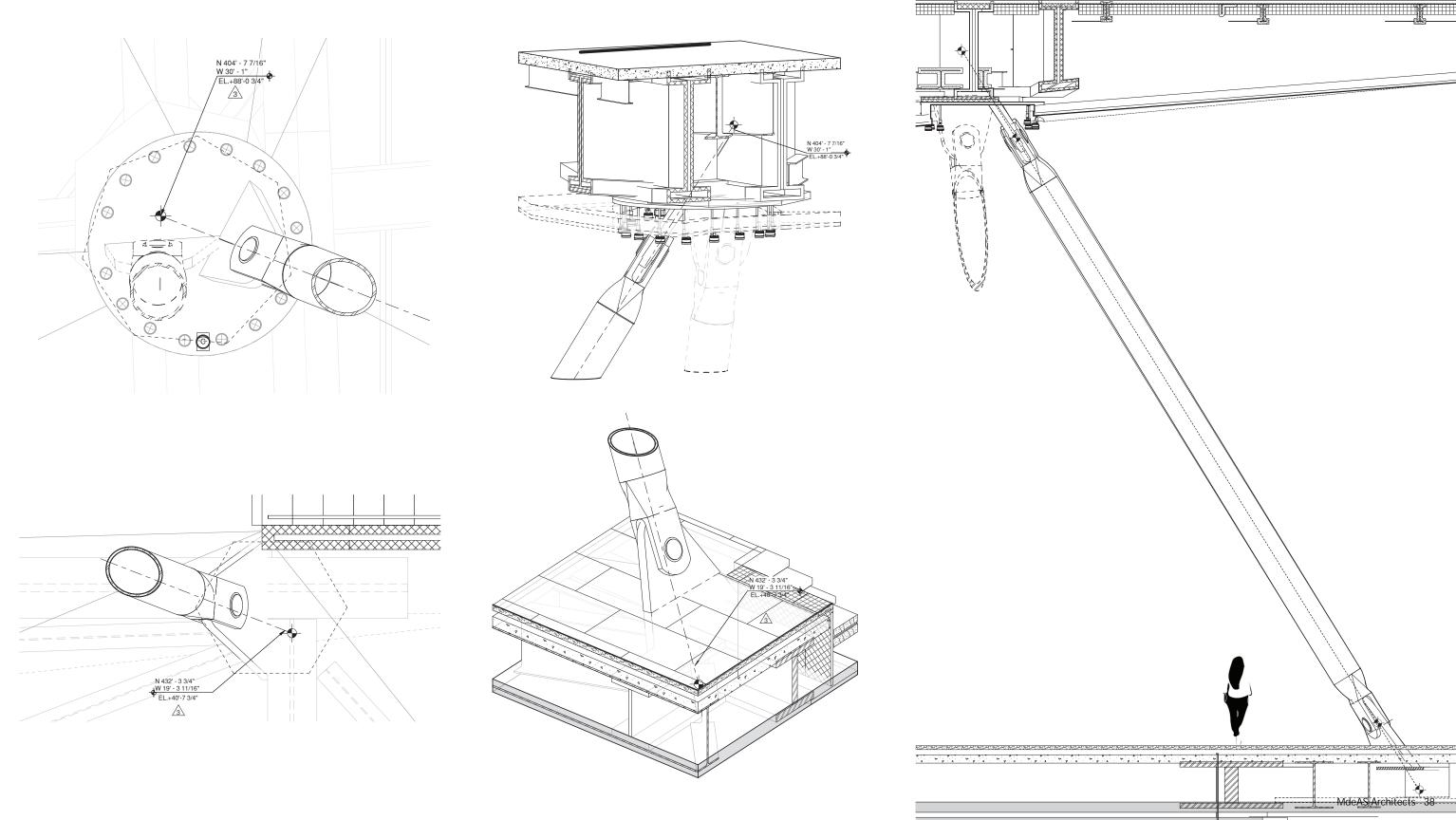


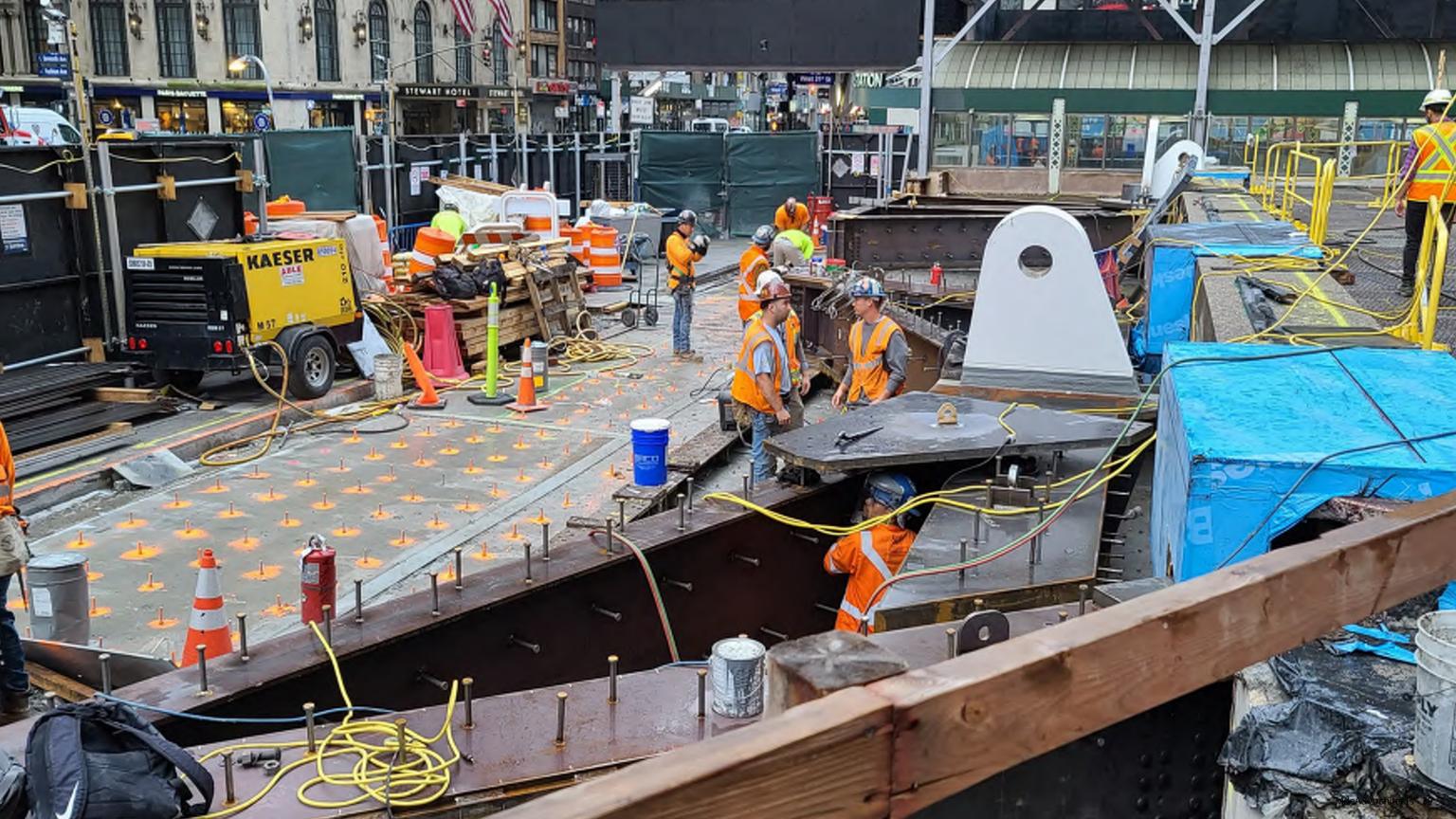






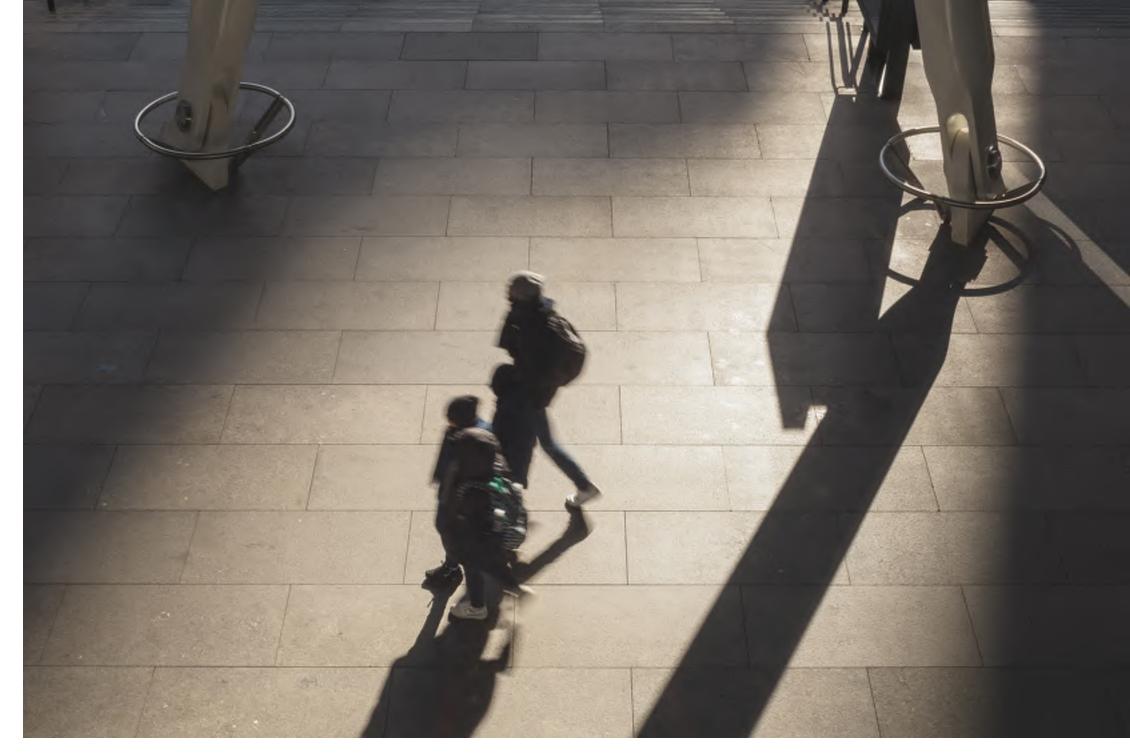










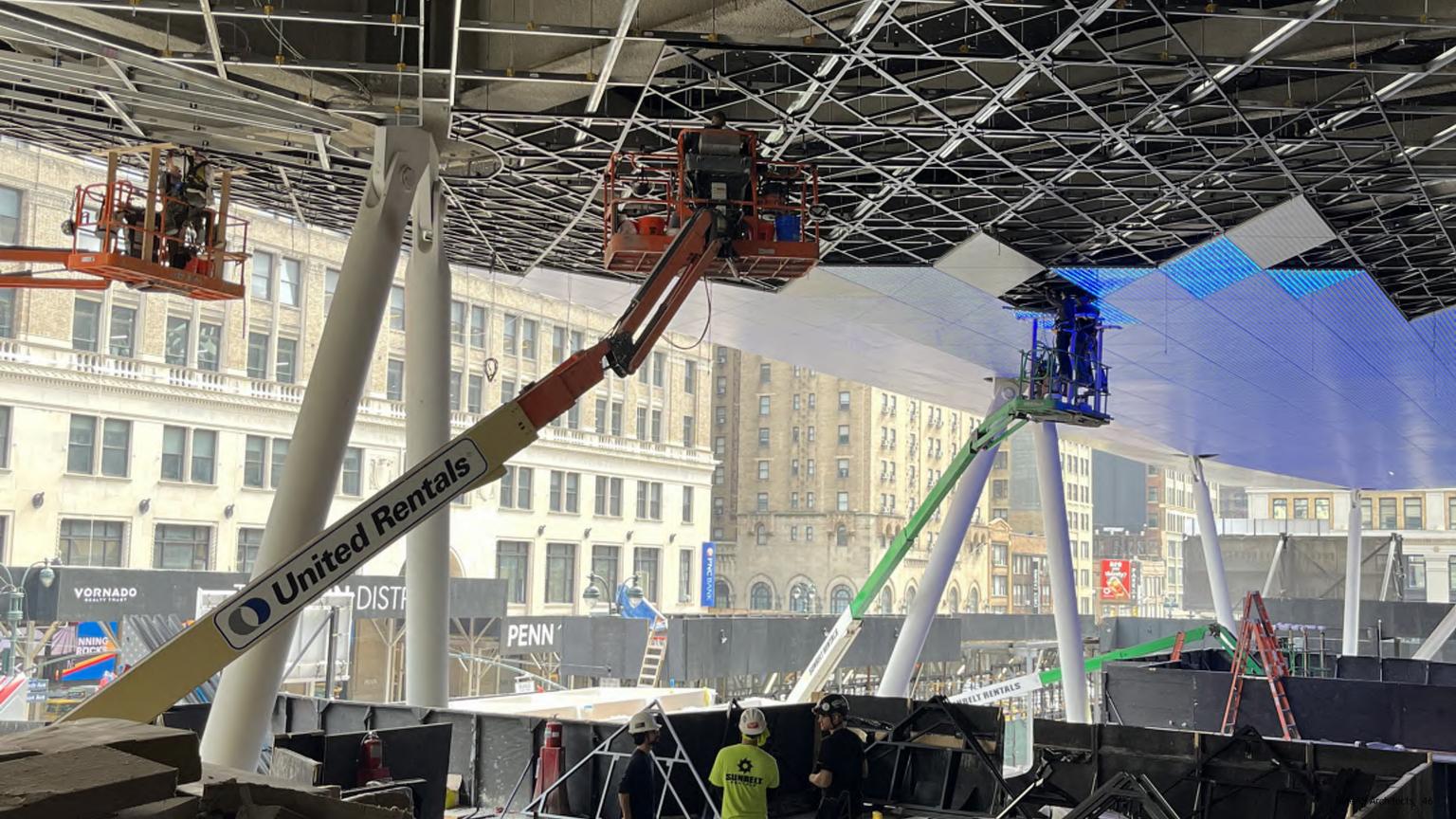






















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THANK YOU!

Contact Us:

info@castconnex.com | +1 416-806-3521

Toll-Free - US: 1-888-681-8786 | UK: +44 0808-196-8162

www.castconnex.com