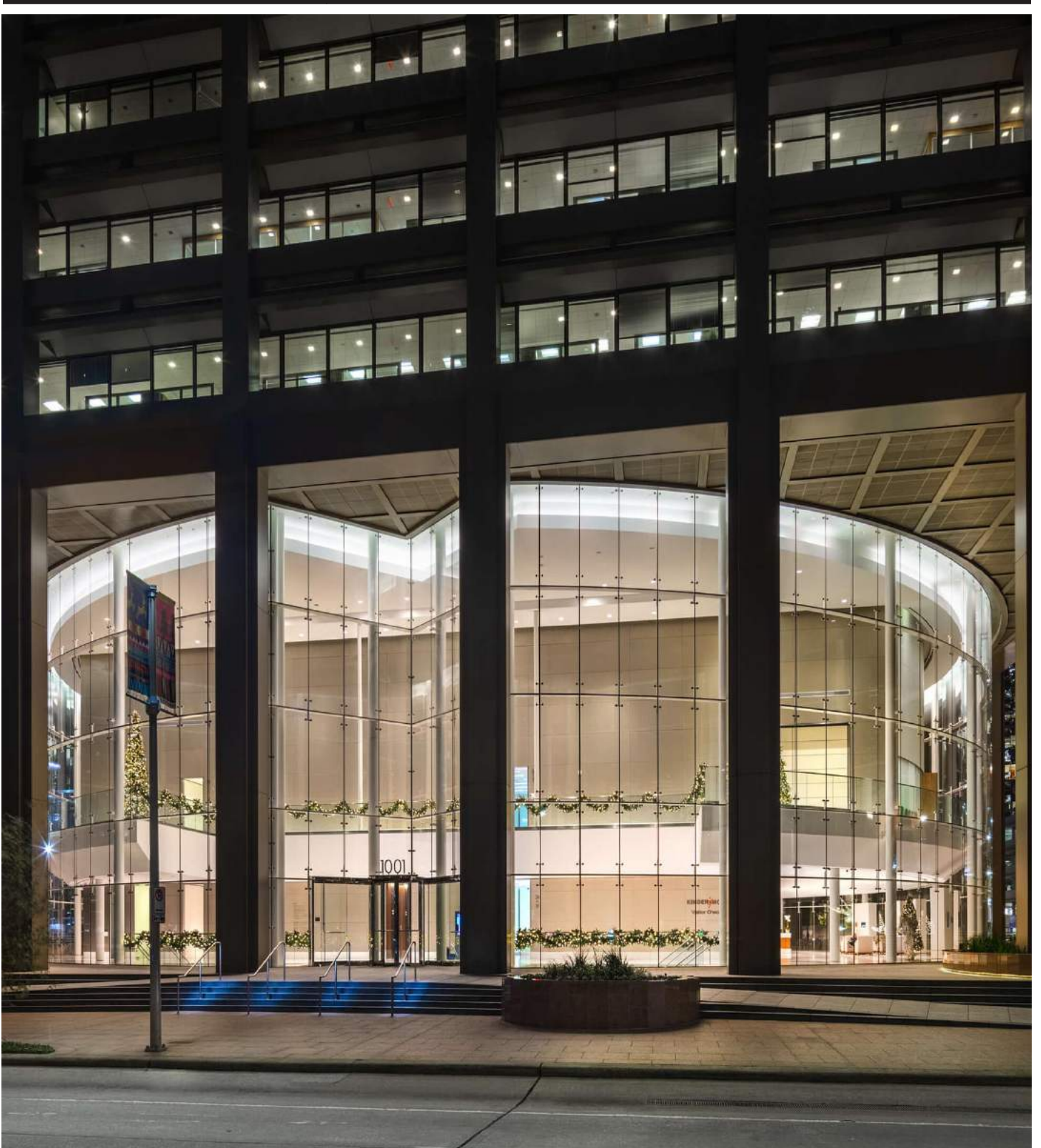


Kinder Morgan

Houston, TX, USA

Project Data Sheet

NOVUM



Specifications

Project: Kinder Morgan
Application: Facade
Location: Houston, TX, USA
Size: 28,165 ft² / 2,620 m²
Architect: Gensler

Novum Systems

Structural

AES, TR: This highly transparent 47' tall façade is supported by curved horizontally spanning HSS12x2 steel beams which were supported by vertical steel posts 16" in diameter. The vertical posts were spaced approximately 30' on center along the arc of the façade. Both the vertical posts and the horizontally spanning beams are suspended from above. To achieve the horizontal spans with steel members only 2" deep, the beams received additional vertical support from 5/8" diameter stainless steel tension rods.

Glazing

PSG: To maximize transparency, low-iron laminated glass was used, creating a very light and transparent façade. The tallest panels used are over 10', which was achieved without having to increase the thickness of the glass by using an ionoplast interlayer and engineering custom castings for the spiders. The point supports were stainless steel countersunk rotules which were flush with the face of the glazing.



Design Solution

Novum engineered and built this majestic circular glass and steel façade for the renovation of an office building in downtown Houston. Novum used suspended horizontal girts and point supported glass to create a highly transparent and technical façade that did not impose undesirable forces on the existing building structure. The unique shape of the façade—curved in plan with V-shaped inset entrances on opposite sides of the building—was achieved with curved steel and segmented glass panels.

