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# CPI DAYLIGHTING *solutions*

## NEXT GENERATION HEALTHCARE



*CPI Clearspan custom translucent canopies shelter UPMC Hospital guests.*



*CPI provided single source canopy design from the ground up, including manufacturing and structural installation.*

The design goal of the University of Pittsburgh Medical Center (UPMC) Passavant Hospital's new \$100 million expansion was to achieve a true state-of-the-art appearance to match their state-of-the-art patient care. In order to express this sentiment in the design, architects at Burt Hill Kosar Rittlemann, Pittsburgh, specified materials like CPI Daylighting's Pentaglas® translucent glazing with a futuristic appearance.

"We wanted a clean, state-of-the-art facility expressed in UPMC's design using aluminum, buffed brick and transparency," said Tom Demko, architect, Burt Hill Kosar Rittlemann. "Everything is to get as much natural daylighting as possible, including the drop off and discharge canopies. We were looking for this type of connection to the future."

Demko achieved the desired look with 22-ft.-wide translucent canopies by CPI glazed with Ice White Pentaglas® 12, covering the hospital drop off areas and walkways and sheltering the main entrances to the hospital, cancer center, and emergency room entrances. Typically made of steel, CPI's design team was challenged to create translucent, free-standing canopy systems using aluminum frames. The three canopies measure 32-ft., 118-ft. and 295-ft. long, each with 14-foot-plus tall aluminum columns spaced every 17-feet to provide the same strength as their steel counterparts.

CPI's design-build engineering services provided the canopy design from the ground up, including the manufacturing and structural installation that UPMC was looking for. CPI designers incorporated angled braces to enhance the strength of the canopy system, adding to the excellent corrosion-resistance, smooth anodized finish and maintenance-free properties of the aluminum structure

"We did one section and all the engineering was provided," said Demko. "Rather than having to get my structural engineer involved, I liked the single-source concept that CPI can provide the engineering for everything."

The Hospital's Penthouse level is also enhanced with 3,400-sq.-ft. of Quadwall® insulated translucent vertical glazing. The 4-in. double-glazed Quadwall® system provides a highly energy-efficient enclosure for the hospital's mechanical equipment.

"We really thought about this product in different lighting conditions and seasons," said Demko. "I like the way the material captures sunlight during the day and the artificial light at night. It makes ambient lighting out of artificial lighting with the combination of reflectance and translucence while still providing the protection from the elements that we needed."

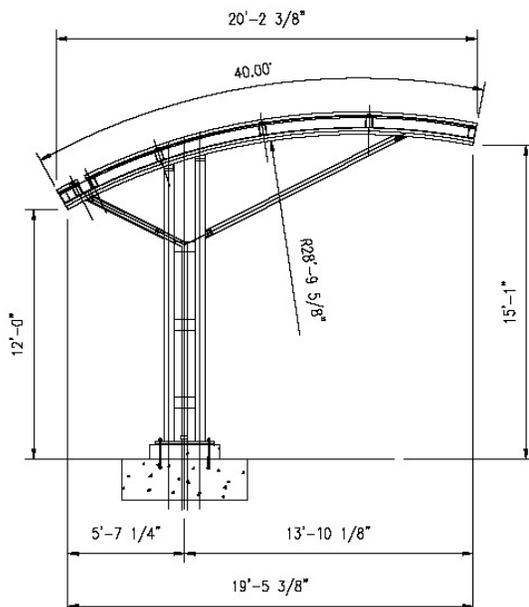
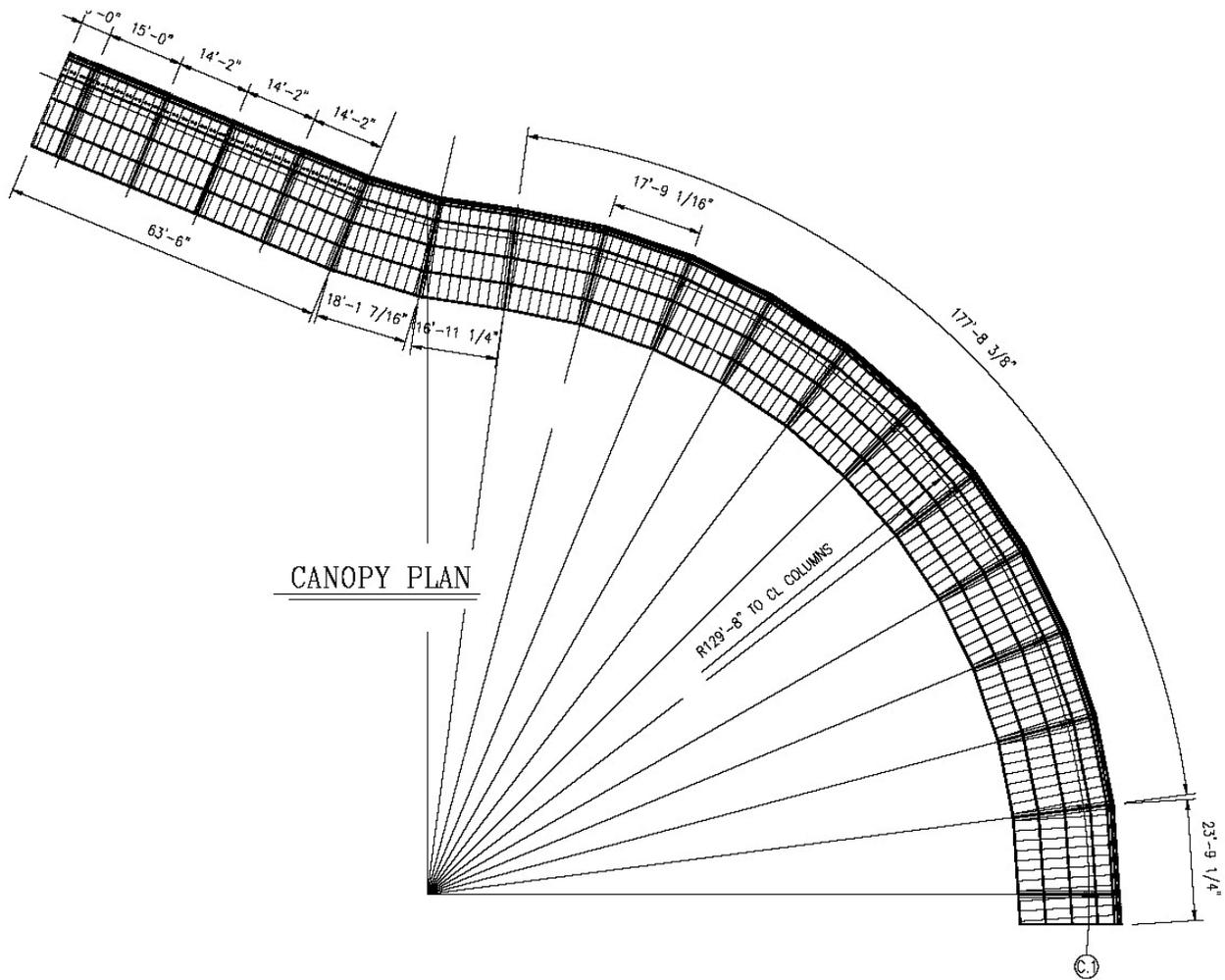
The UPMC hospital brings the next generation of healthcare to its patients as it opens the doors of a modern, seven-story, 188,000-sq.-ft. facility in the spring of 2010. The building's powerful design emphasizes UPMC's status as the region's leading healthcare provider.

"[The CPI product] is what UPMC was looking for; the protection and the futuristic look," said Demko. "It really speaks more of the optimism of healthcare in a turn-of-the-next century concept. It evokes that optimism of the future."

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