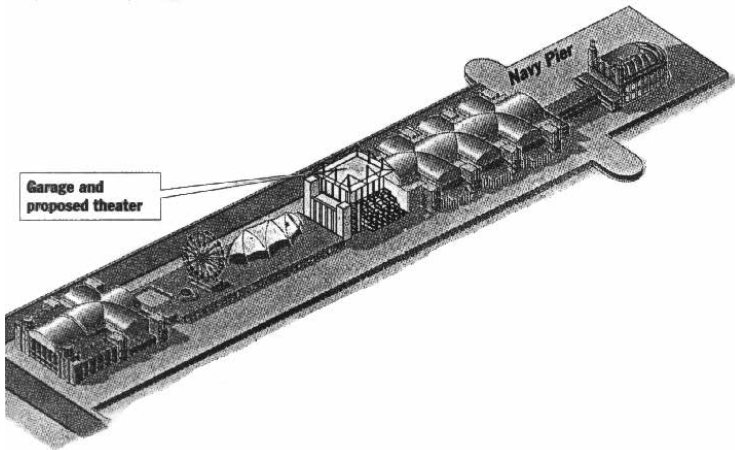


Symons® by Dayton Superior® Keeps Up Appearances at Navy Pier



This drawing of the parking garage with a proposed theater on top appeared in the Chicago Tribune.



The cast-in-place concrete has deeply textured surfaces to deaden noise from a nearby concert stage.

SUMMARY

Beneath the towering Chicago skyline, Navy Pier extends from the city's Lake Michigan shoreline. Rich in history and originally constructed in 1914, Navy Pier now boasts the distinction of being the Midwest's number one tourist destination. With its 50 acres of rides, exhibits, entertainment venues, shops and restaurants, Navy Pier attracts more than 8 million visitors a year.

A \$150 million redevelopment project brought about significant improvements to nearly every aspect of Navy Pier. To help accommodate the Pier's many visitors, a multi-level, 700-space parking garage was completed, bringing the total of available on-site parking to 1,740 spaces.

CUSTOMER

Contractor: James McHugh Construction

PROJECT TYPE:

Parking Garage

CHALLENGE

The function of the new parking garage was clear; to provide additional parking for Navy Pier guests. However, the parking garage design also called for the structure to serve as a resonance and reverberation barrier, reducing sound pressure from an adjacent concert stage and shielding residents of the nearby Lake Point Tower condominiums from unwanted noise. An acoustical engineer on the project determined that a combination of rough and smooth textures in high relief would minimize the sound disturbance. With this knowledge, the project's architectural firm selected Symons by Dayton Superior because of their expertise in the design and development of custom formliner.

SOLUTION

After a professional stone mason chiseled actual stone to create the desired texture, Symons by Dayton Superior was able to create master molds for the formliner. Several molds were created with slight variations in each in order to achieve a natural look in the finished concrete. By providing sound vibration guidelines, the Symons team was able to eliminate concerns about “bugholes” and other imperfections interfering with the architect’s vision of the concrete presenting a cut stone appearance.

“I’ve worked with all different types of liners from virtually every manufacturer,” said Tom Reidy, Carpenter Foreman for the project. “Nothing compares to this service.”

RESULTS

- Symons by Dayton Superior custom formliner surpassed the contractor’s performance expectations
- Symons professionals were able to create formliner based on the project architect’s design
- The development of custom formliner allowed the finished parking garage to serve both form and function

RESOURCES

Learn more about Symons by Dayton Superior formliner products at: www.daytonsuperior.com.



Custom formliners allow contractors to perform structural and architectural operations at the same time, making them a cost effective solution, especially when for repetitive designs.

SYMONS BY DAYTON SUPERIOR FORMLINER

- Offering hundreds of standard block, brick, fluted, fractured, stone and wood formliner patterns.
- Capability to create custom formliner from original design drawings or digital images.
- Formliner material for single-use or multiple-use applications
- In-stock patterns ship next day
- Most plastic patterns and orders shipped in less than 5 days.
- Full accessory line for cast-in-place, tilt-up or precast jobs.

RELATED PRODUCTS

- Clean Strip™ Form Releases
- Magic Kote® Form Release
- Water-based and solvent-based cures and seals

Additional Symons product information is available online at www.daytonsuperior.com. Contact your Dayton Superior representative at 888-977-9600, or send an email inquiry to info@daytonsuperior.com if you would like to discuss how these or other innovative systems can make your construction projects more productive.