

CALVERT STREET PARKING GARAGE

PROJECT PRINCIPALS

Owner—State of Maryland

Designer—Desman & Associates

Architect of Record—HSMM,
Washington, D.C.

Engineer—Cagley & Associates

General Contractor—
Coakley-Williams Construction

Precaster & Specialty Engineer—
Shockey Precast Group, using
Innovative Brick Systems and
Summitville Thin Brick products

Shockey's thin-brick façade in lockstep with Annapolis detail

Completing erection the four-bay, four-level, 727-space Calvert Street Parking Garage in only 12 weeks, Winchester, Va.-based Shockey Precast produced and delivered 554 structural and 223 architectural precast pieces. The façade panels' thin-brick inlay was instrumental in matching the design motif of surrounding Annapolis, Md., buildings. A significant role

in achieving the striking and cost-effective finish can be credited to Innovative Brick Systems' VersaLiner technology, including custom elements key to creating the façade's ornate appearance.

Among the project's 223 architectural panels were spandrels, thin-brick panels, cornices, copings and intricate column covers. Two distinct bond patterns, i.e., soldier and recessed courses, were selected, as well as two brick colors. Additionally, running and flemish bond coursings with intricate detail were incorporated. Layout and detailing of horizontal and vertical brick coursing presented a challenge to design and production team members, whose exacting attention assured proper alignment of brick between precast elements. Custom thin-brick formliners facilitated execution of façade detailing.

Also challenging for erection of both architectural and structural panels was a footprint limited to the parking garage's interior. Accordingly, Shockey changed the access plan to eliminate ramp construction. Finally, moving the last erection phase to the street provided time and expense savings while allowing uninterrupted progress.



VERSALINER ELEVATES ARCHITECTURAL PANELS

Embedding thin brick in architectural panels to provide the appearance of brick and mortar construction without its time and expense, Shockey Precast employed Innovative Brick Systems' (IBS) VersaLiner to accentuate the Calvert Street Parking Garage façade. The patented, single-use liner system is said by IBS product engineers to offer multiple benefits for the precast panel producer, architect, and owner/developer.

FOR THE PRODUCER

- Easy to use—VersaLiner is convenient for panel set up; and, cleanup/removal requires only peeling off the liner and pressure washing the panel to remove wax.
- Variety—The range of available patterns encompasses arches, accents, corbelled bands, and mixed brick sizes. Moreover, the thin brick obtained from reputable brick and tile producers offers various combinations of color, blend, shape, and finish.

- Efficient bed utilization—Nearly transparent to the casting process, VersaLiner minimizes special set-up considerations and eliminates the need to prioritize panel production.
- Casting bed forms do not need to be raised to compensate for the liner thickness.
- No need to clean and store the liner after use.
- All available beds and forming areas can be used for concurrent production of varied brick panels.

FOR THE ARCHITECT

- Design options—The VersaLiner system matches almost any brick design: arches integrated with a variety of field patterns, transitions to nonbrick surfaces, and corbelled accents. Additionally, thin brick units are offered in multiple colors, sizes and textures.
- Design support—Currently working in AutoCAD, Solidworks and Rhino design programs, IBS in-

house expertise is available to assist in detailing brick designs.

- Seamless cove joints—The VersaLiner system produces finished joints for superior weather resistance, lasting durability, and a realistic finish.

FOR THE OWNER/DEVELOPER

- A quality structure, completed on a shorter timetable at lower cost, offers lasting durability and aesthetic appeal.
- More leasable and usable square footage—A high-performance concrete wall with embedded brick, typically 8 inches to 10 inches thick, compares favorably with a conventional 16- to 18-in.-thick brick wall.
- Reduced total cost of ownership—The durable properties of concrete walls with an embedded-brick finish serve to reduce long-term maintenance and building operation costs.

