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# Construction Highlights - Fall, 2004

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## Current Project Schedule



Foundation Surface

Since July 2004, architects, engineers, and contractors have been engaged in determining the extent of the structural issues that have delayed construction progress. As of September 2004, significant progress has been made towards identifying the areas to be repaired.

Selective demolition is in process in the garage foundation. Initially, a method called hydrodemolition was utilized. More recently, repair contractors have been carefully applying chip hammers to specific areas within the garage. While the selective demolition is taking place, contractors are building formwork in preparation for implementing the repairs and replacing the concrete.



Garage Hydrodemolition



Garage Hydrodemolition

Other construction work taking place includes the removal of the dewatering system around the site, which will allow for the perimeter of the garage to be backfilled with earth fill. Currently, preparations are in process for the removal of the dewatering pipe within Pennsylvania Street, and for the installation of utilities within Meridian, Ninth, and Pennsylvania Streets.



Perimeter - west view

While a final schedule for completing the repairs has not yet been determined, Library officials are taking all reasonable steps to expedite the repair process so that construction contractors may begin the steel erection for the six-story tower addition.

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## Renovations to the Cret Building

Contractors are nearing completion of the new concrete structure supporting the front steps of the Cret Building, incorporating the installation of a “snow-melt” system. Once the concrete substructure is completed, the original granite steps will be replaced.



Steps to the Cret Building

Inside the building, the renovation is also nearing substantial completion. The remaining items to be installed include doors, wall finishes, trim, and other amenities. The last stages of the renovation work will take place after the new tower and atrium structures are built.



Cret - inside renovation

## Mock-up Section of Curtain Wall System – front of Cret Building

Located on the south side of the Project site off of St. Clair Street is a mock-up section of the curtainwall system that will be used on the outside of the new six-story tower addition. [ASI Systems](#), Indianapolis, is the contractor for the curtainwall, designed by the [Woollen Molzan and Partners](#), architects for the project.



Curtainwall – large scale test site

A curtain wall is a nonbearing exterior enclosure that is supported by the building’s structural steel frame and holds the glass and stainless steel panels. The wall is lightweight and composed of extruded aluminum mullions. Curtainwall facades are considerably more flexible than conventional punched window systems.



Curtainwall – large scale test site

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Each curtain wall system is unique, and for that reason a large scale façade (30 feet wide by 30 feet tall) test panel is often created by the contractor to test materials, structure, and performance. Earlier this year, a test panel was constructed at the manufacturer's test facility and subject to numerous test conditions.



Curtainwall Mock-Up site, St. Clair St.

The mock-up section on the site contains a sample panel of each of the components to be utilized: a granite base, stainless steel panels with a linen and polished finish, green "vision" glass, spandrel glass panels, joint materials, and backing materials.



Curtainwall Mock-Up site, St. Clair St.

The purpose of creating the mock-up wall is to establish a standard for the quality level of the installation. The standard includes: the fit, the finish, and the materials. The mock-up panel in front of the Cret building will be removed after the project is satisfactorily completed.

## Summer Intern – Purdue Construction Engineering Student

For the past two summers, IMCPL participated in Purdue University's Construction Engineering [Internship Program](#). The internship program is designed to expose the student to three primary areas of experience: field operations, office operations, and project management.



Purdue Intern

This past summer, Amanda, a sophomore at Purdue University, joined the construction team and assisted with numerous project details, as well as presentations.

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## Central Library Quick Facts

Did you know that there are 76 names of famous literary men and women carved around the building, both inside and out?

Inscribed in the stonework above the windows, both inside and outside the building, are the names of famous philosophers, scientists, naturalists, historians, essayists, prophets, theologians, poets, dramatists, and novelists. A selection committee determined the final list by vote.

In addition to the names, four portraits were carved in limestone on the outside of the building. The portraits of Irving and Riley are found on the east side of the Cret Building, and Chaucer and Ruskin are located on the west side.



Riley



Irving



Chaucer



Ruskin