

General Description:

- **Location:**
Lansing, Michigan
- **Profile:**
Educational Facility
- **Project:**
BUR Roof Replacement

Services Provided:

- Evaluation
- Design Development
- Construction Documents
- Bidding
- Field Quality Assurance
- Warranty Audit Program

Challenge:

- Short construction time frame
- Multiple unique features
- Completing both roof and wall projects simultaneously

Solution:

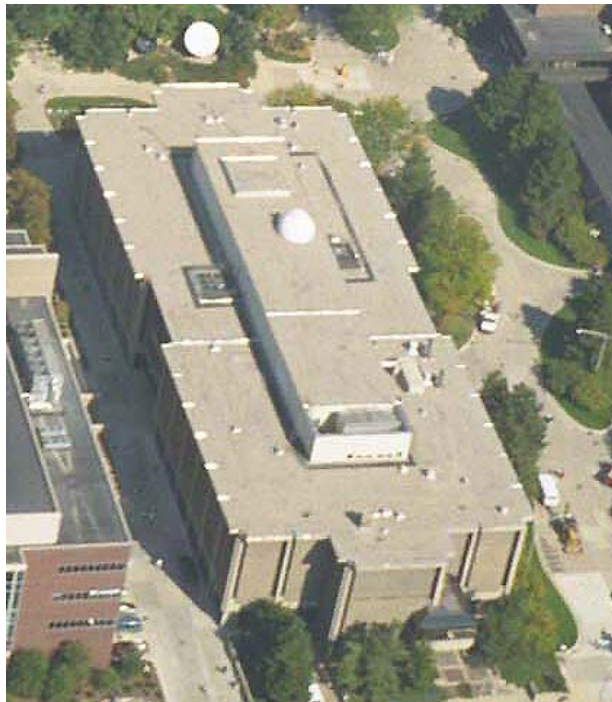
- Completed Construction Documents & Bidding well in advance
- Extensive detailing in Construction Documents
- Careful coordination between projects; multiple progress meetings

Lansing Community College Arts & Sciences Building

Lansing Community College, a growing community college which serves more than 35,000 students each year, was experiencing significant leakage problems at their Arts

window of opportunity posed the first challenge. StructureTec began by completing the construction documents early to ensure that the successful contractor was scheduled well in advance

to fully complete all requirements. StructureTec then faced a challenge which needed to be overcome during the design phase. The roof had an extensive number of unique features, including a dome, penthouses, and other penetrations. StructureTec included extensive detailing in the construction documents to accommodate these many features. The next challenge arose in coor-



Overview of Arts & Sciences Building

& Sciences Building. StructureTec was contracted to perform an evaluation which revealed that the leaks were originating in both the roofs and walls. It was determined that both the wall restoration project and the roof replacement project needed to be completed during the upcoming summer break. This short

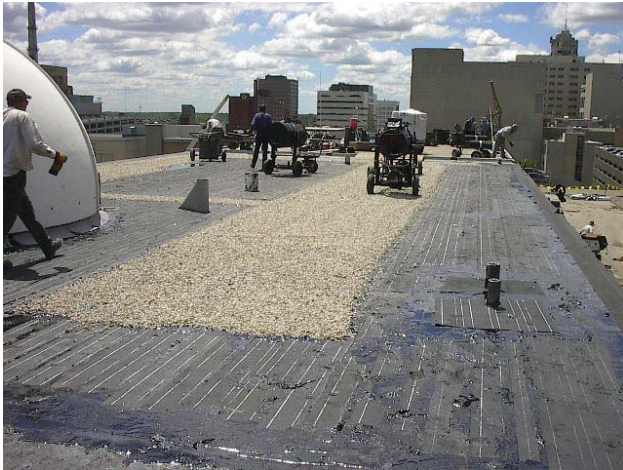


A perimeter flashing system was designed for the new roof system.



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Field Quality Assurance visits were performed to ensure overall project quality.



Overview of completed roof replacement project.

ordinating both projects, which were occurring simultaneously. StructureTec, as project manager for both projects, was able to meet this challenge by carefully organizing and managing all the various trades and details. Multiple progress meetings were held during construction to ensure that all issues were addressed with all trades. StructureTec performed Field Quality As-

urance visits to carefully monitor all stages of the project. This was done to ensure that at completion, the project would be of the highest quality. In conclusion, Lansing Community College was able to remediate both the walls and roofs of their Arts & Sciences Building, achieving watertight integrity as well as the maximum return on investment. ■



Extensive detailing was performed to ensure that all the special elements of the roof were properly flashed, ensuring watertight integrity.

<u>FEATURES</u>	<u>BENEFITS</u>
Designed built-up roof system	Durable for high traffic areas and longevity
Designed new fascia system	Prevented splits and fractures along edge detail
Provided field of the roof metal flashing details	Long-term details requiring minimal maintenance over service life
Life-cycle cost (high rating for longevity)	Maximized the return on investment
Provided Field Quality Assurance	Ensured higher quality end product

Total Building Envelope Management SolutionSM

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