



Clarkson

UNIVERSITY

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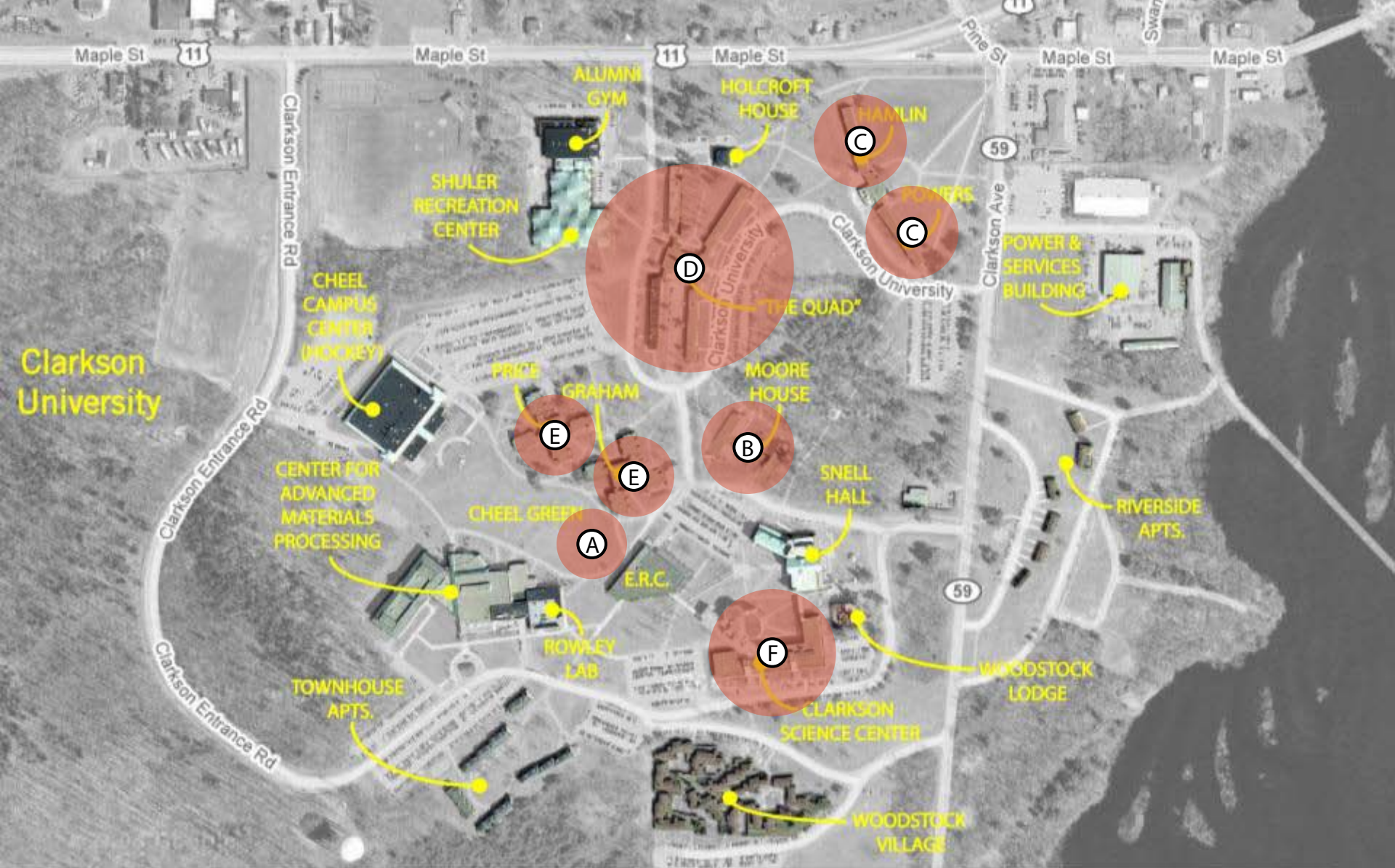
The Clarkson University
STUDENT CENTER

BUILDING
DESIGN+CONSTRUCTION.

14th Annual Building Team Awards

PERKINS
+ WILL


pizzagalli
construction company



Perkins+Will buildings on the Clarkson Campus
 A. Student Center (2010)
 B. Moore House Residence Hall (2012)
 C. Hamlin and Powers Residence Halls (2010)
 D. The Quad Residence Hall (2009)
 E. Price and Graham Residence Halls (1968-9)
 F. Clarkson Science Center (1967)



The Student Center is located at the core of the campus, and connects all academic buildings through a 2nd floor concourse



"Old Main" :: Façade Elements



Student Center :: Façade Elements



"Old Main" :: Roof Structure



Student Center :: Roof Structure



Woodstock Lodge :: Sandstone Detail

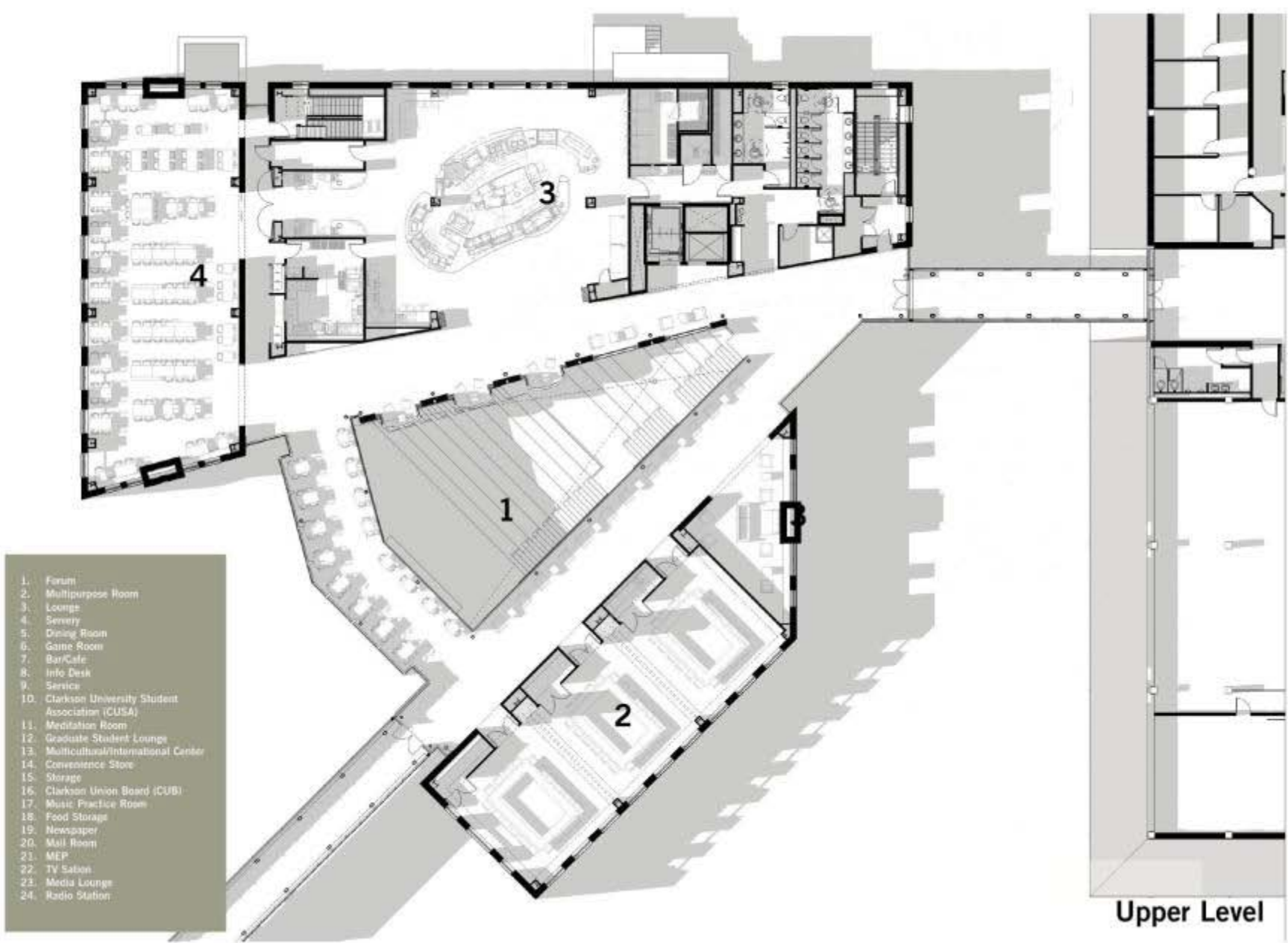


Student Center :: Sandstone Detail

Clarkson President Tony Collins requested that Perkins+Will incorporate elements of the original campus buildings, located miles from the current campus.

The Student Center incorporates many architectural elements that are "uniquely Clarkson" in nature:

- The main façade features 9 arched masonry windows, and a modernized cupola, recalling those of "Old Main."*
- The Forum roof recalls the innovative truss system of the Old Main's attic classroom space.*
- The sandstone detail recalls the "Slab and Binder" masonry technique, a vernacular construction style indigenous to upstate New York*



Floor Plan: Upper Level



- 1. Forum
- 2. Multipurpose Room
- 3. Lounge
- 4. Scrivery
- 5. Dining Room
- 6. Game Room
- 7. Bar/Cafe
- 8. Info Desk
- 9. Service
- 10. Clarkson University Student Association (CUSA)
- 11. Meditation Room
- 12. Graduate Student Lounge
- 13. Multicultural/International Center
- 14. Convenience Store
- 15. Storage
- 16. Clarkson Union Board (CUB)
- 17. Music Practice Room
- 18. Food Storage
- 19. Newspaper
- 20. Mail Room
- 21. MEP
- 22. TV Salon
- 23. Media Lounge
- 24. Radio Station

Ground Level

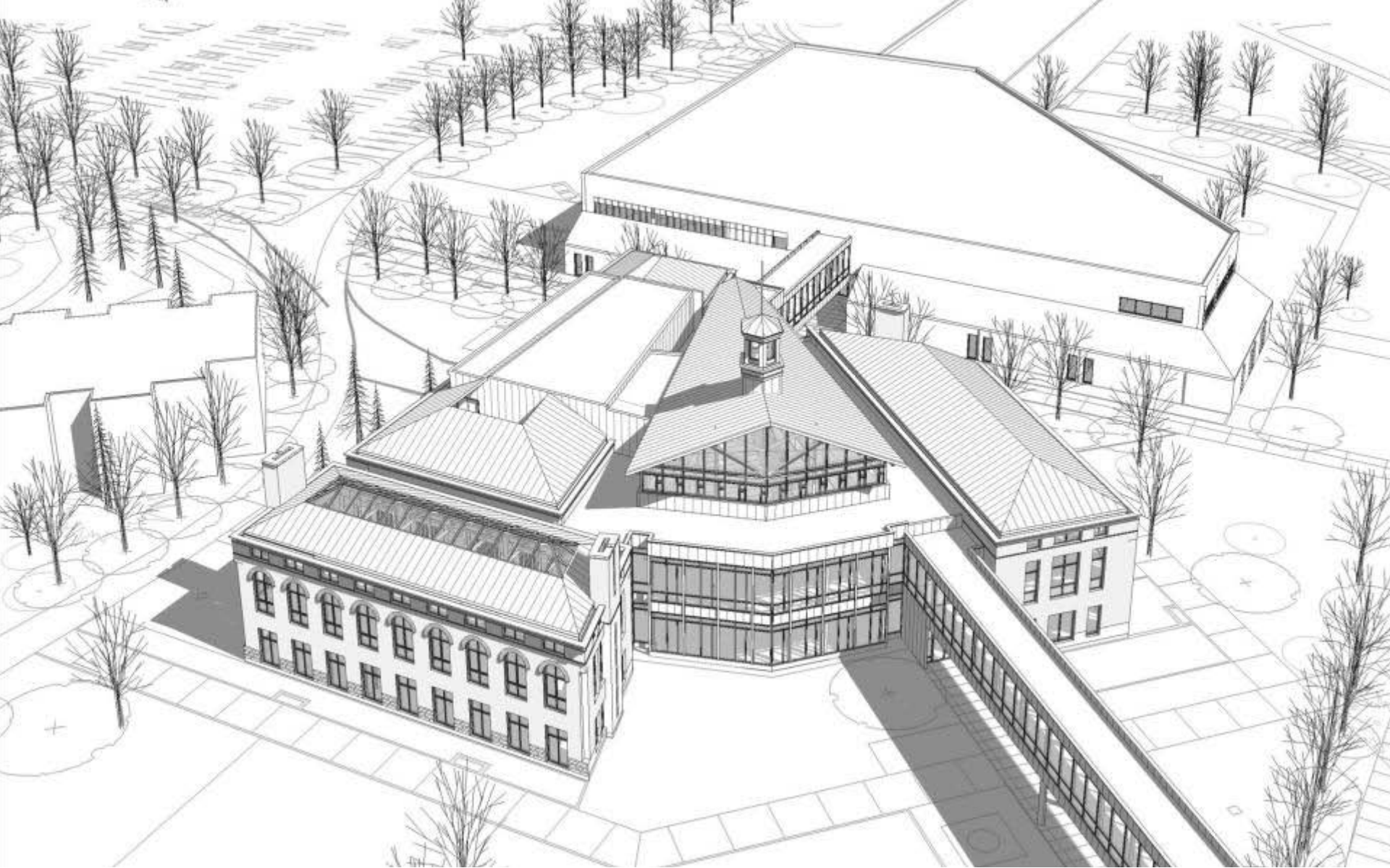
Floor Plan: Ground Level



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Lower Level

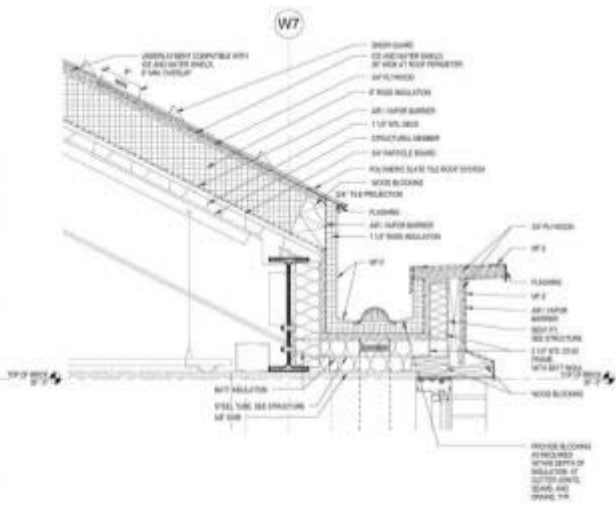
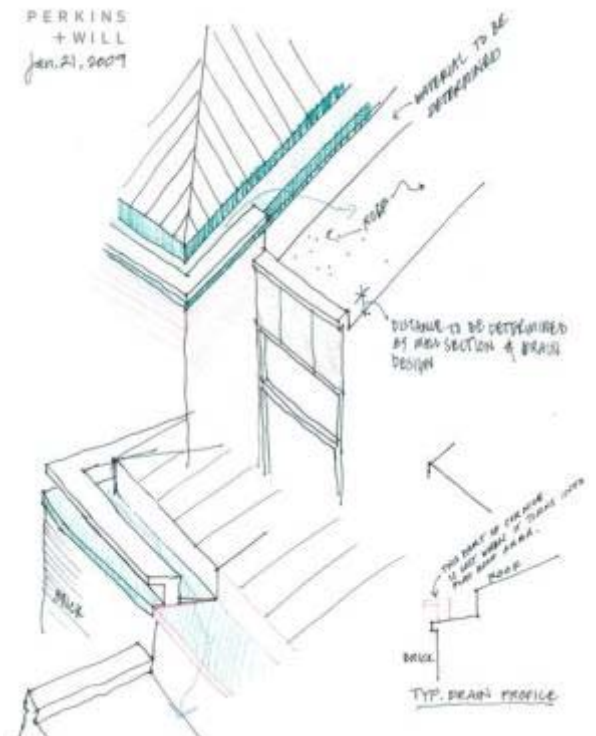
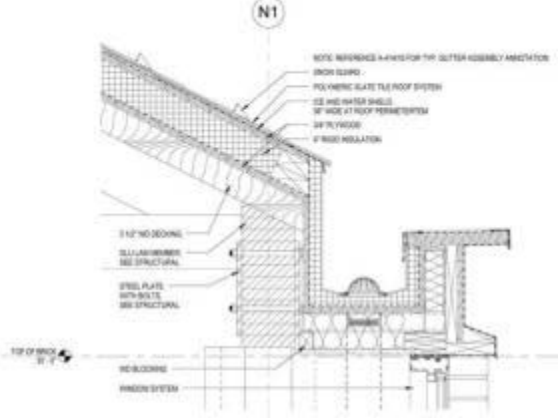
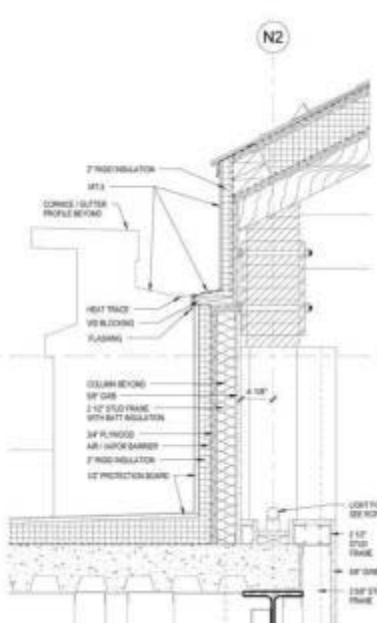
Floor Plan: Lower Level



Aerial View of the Student Center Revit BIM model



The dramatic wood trusses were manufactured off-site, and placed with a crane.



The hip roofs required different construction solutions depending upon whether the ceiling is coffered gypsum in the Multi-Purpose Room, or heavy timber in the Dining Room



Rendering of the Student Center West Façade



View of the Student Center West Façade



Rendering of the Forum Façade and Southwest Bridge



*View of the Forum Façade and Southwest Bridge.
A gas-powered Fire-pit is visible in the foreground.*

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Rendering of the Student Center South Façade

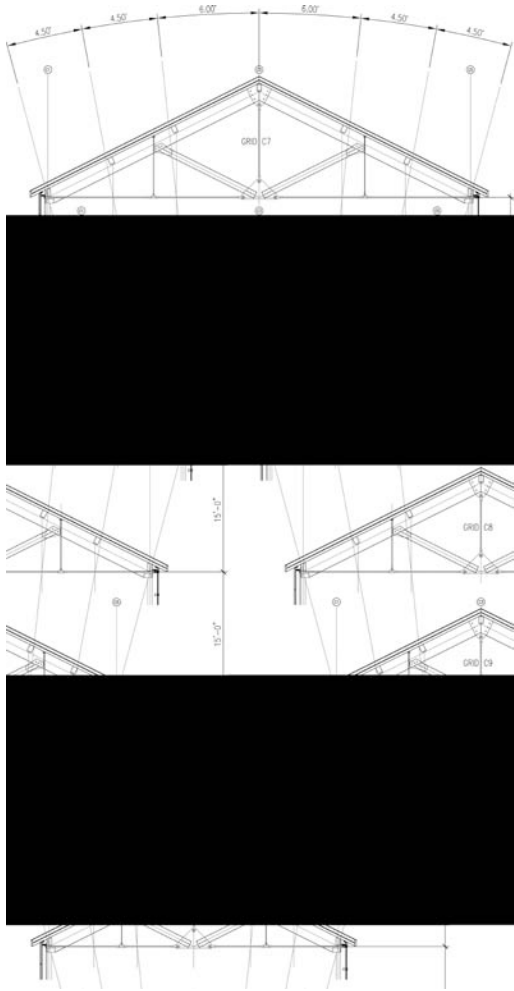


View of the Student Center South Façade

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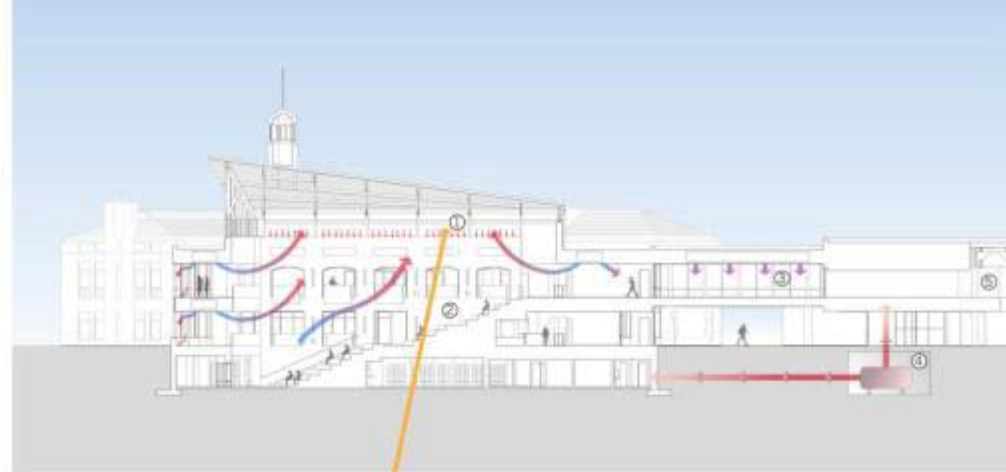
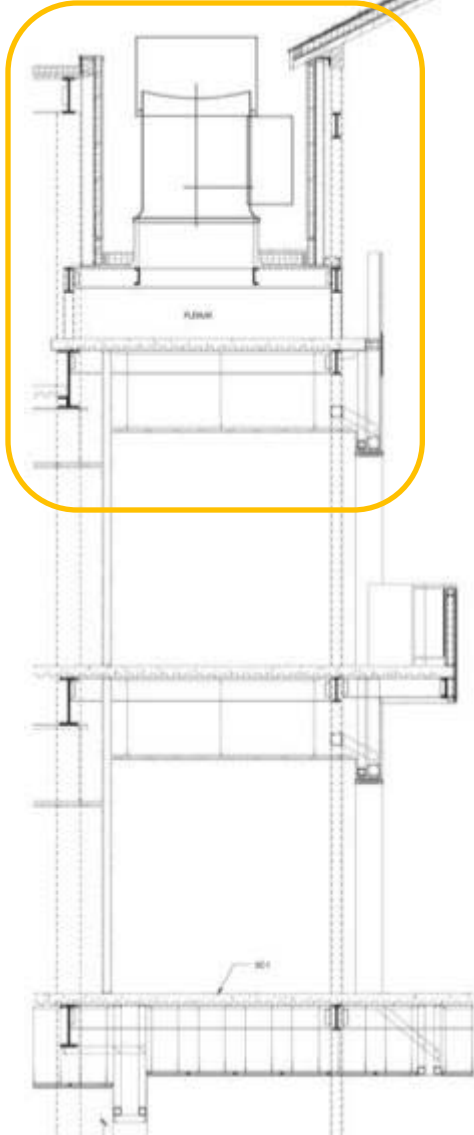
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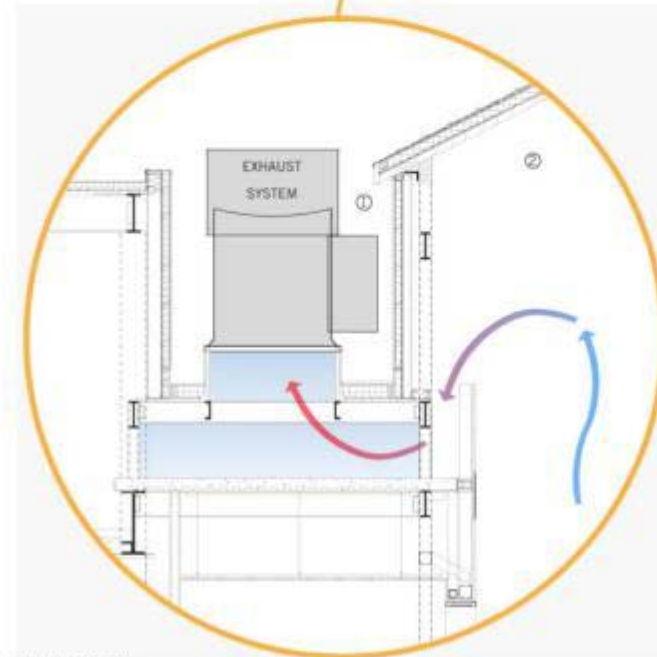
The wood trusses of the Forum, which recall the attic classroom of Old Main, are a **visual lesson in static physics** for Clarkson engineering students.



*The wood trusses of the Forum, which recall the attic classroom of Old Main, are a **visual lesson in static physics** for Clarkson engineering students.*



BUILDING SECTION



EXHAUST SYSTEM DETAIL

1. Atrium Exhaust system also provides building ventilation
2. Forum, the central space in the Student Center
3. Bridge between new Student Center and Library
4. High Efficiency Boiler provides capacity for existing library and new Student Center
5. Library Reading Room

The fact that the Forum spatially connects all three levels of the building necessitated the inclusion of a smoke evacuation system. *While this design was required by life safety codes, the engineers, (including several Clarkson alums), saw an opportunity for design synergy.* By operating the windows and fans at reduced capacity during fair weather “swing” seasons, the evacuation system could double as a source of fresh air and cooling.



*The Forum space as conceived
in Schematic Design*



*The Forum space as conceived in
Design Development*



The Forum space as built

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View of the Forum looking East



View of the Forum Looking West



*The Media Club spaces required innovation and careful coordination:
1) Acoustic window wall and structural separation to maximize visibility while minimizing sound transmission. 2) A new high-resolution LED screen system that was not yet commercially available during design required dedicated cooling. 3) State of the art sound system and wide open spaces required acoustic treatment of Forum walls.*





The upper level includes three connected multipurpose rooms, the main dining hall, and a marché-style servery.

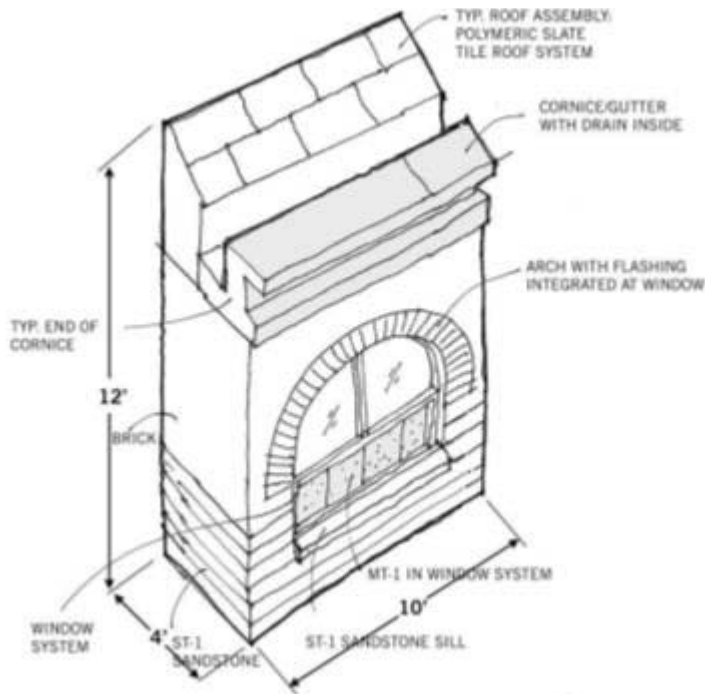
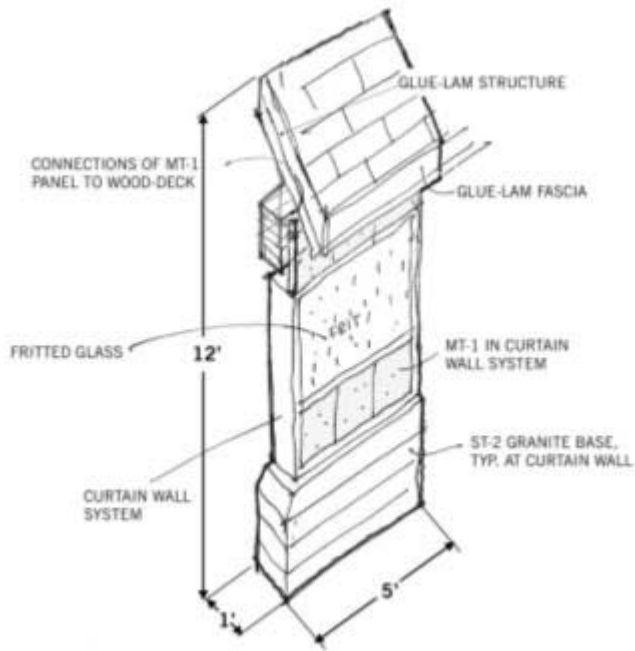
Clarkson challenged the architects with an **ambitious building program**, including new homes for student clubs and organizations (above, top), a post office, convenience store, meeting spaces (above), lounges, game rooms, a new dining facility, and a Meditation Room (left).



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Based on Perkins+Will's sketches, Pizzagalli constructed a building **mock-up** to assist in the approval of materials and to demonstrate construction assembly to onsite subcontractors.

The new Student Center has further developed Clarkson's tradition of innovation. Starting with striking the perfect balance between modern technology and heritage references, and extending to the integration of locally produced concrete blocks and the wood truss details evocative of Old Main. Designed and built in close collaboration with the University, the contractor, and the design team, the new Student Center is truly a living example of creative solutions.



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