

# ENTRY FORM



## DVASE 2016 Excellence in Structural Engineering Awards Program

### PROJECT CATEGORY (check one):

Buildings under \$2M		Buildings Over \$100M	
Buildings \$2M-\$10M		Other Structures Under \$5M	
Buildings \$10M - \$30M	x	Other Structures Over \$5M	
Buildings \$30M - \$100M		Single Family Home	

Approximate construction cost of facility submitted:	<b>\$15 Million</b>
Entry Fee:	<b>FREE</b>
Name of Project:	<b>Shipley School Old Main &amp; Student Commons</b>
Location of Project:	<b>Bryn Mawr, PA</b>
Date construction was completed (M/Y):	<b>12/2015</b>
Structural Design Firm:	<b>Keast &amp; Hood Philadelphia, PA</b>
Affiliation:	<b>All entries must be submitted by DVASE member firms or members.</b>
Architect:	<b>MGA Partners, Architects</b>
General Contractor:	<b>W.S. Cumby &amp; Sons</b>

Company Logo (insert .jpg in box below)



### Important Notes:

- Please .pdf your completed entry form and email to [bkoroncai@barrpino.com](mailto:bkoroncai@barrpino.com).
- Please also email separately 2-3 of the best .jpg images of your project, for the slide presentation at the May dinner and for the DVASE website. Include a brief (approx. 4 sentences) summary of the project for the DVASE Awards Presentation with this separate email.

- Provide a concise project description in the following box (one page maximum). Include the significant aspects of the project and their relationship to the judging criteria.

**Old Main & Student Commons  
The Shipley School | Bryn Mawr, PA**

The Shipley School is a coeducational independent day school with students in preschool through 12th grade. As part of the Upper Campus Master Plan to accommodate progressive and collaborative learning needs, a two phased project was enacted. Phase I of the project includes construction of the new Student Commons building with Phase II including the renovation and addition to the Old Main building. Keast & Hood was retained as the structural engineer to MGA Partners, Architects for the project.

Phase I includes construction of a new Student Commons building containing collaborative classrooms and learning centers, a dining hall and kitchen facilities, faculty and staff offices, a "gray box" theater, and music practice rooms.

The design of the new Student Commons building called for complicated framing columns within the main auditorium and dining area. The ceiling in the main area slopes up to create an open clerestory and provides an abundance of natural light to the space. Because of the design, typical trusses and corner columns were not an option. The building required a small profile at ends. As a solution, all columns were pulled in 20 feet to provide an open space. The large steel trusses that allowed for no corner columns also enclosed mechanical equipment thus hiding it from plain view to compliment the architect's open space design.

The site for the new Student Commons building was complicated by a steep slope with half of the first floor at grade and the other half below grade. There were also issues with the existing soil, the team utilized deep dynamic compaction to solidify the ground. Thus, avoiding delay and the cost of moving and replacing soil.

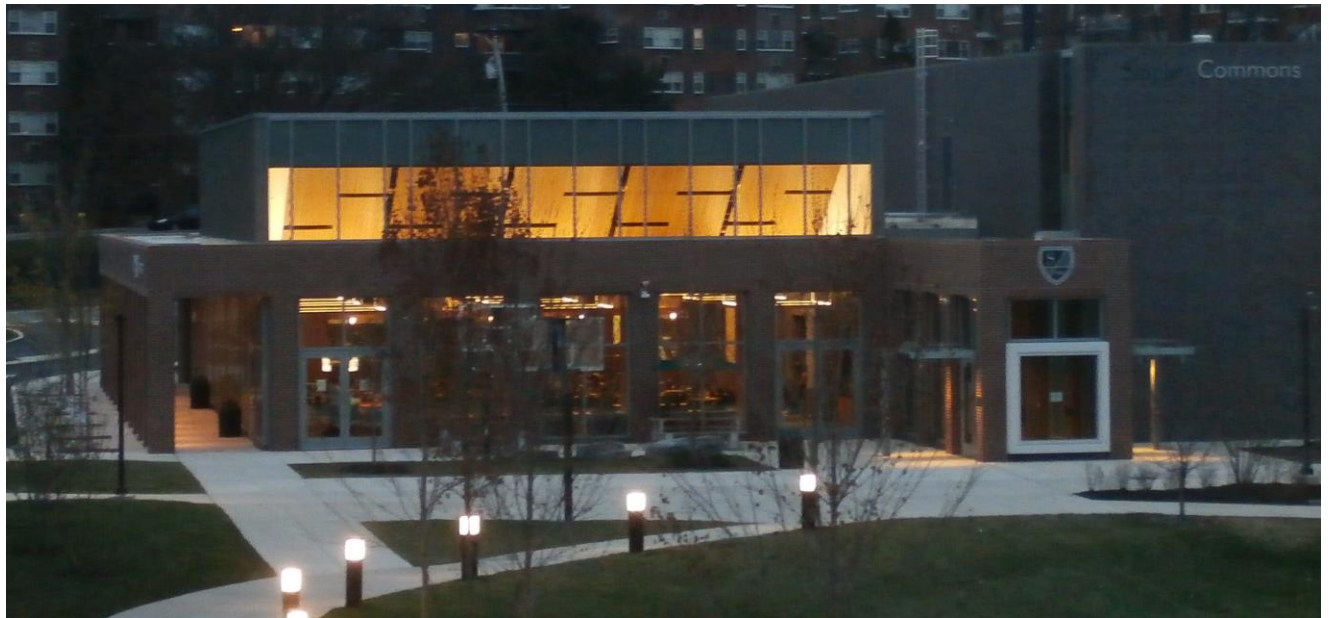
Once the new Student Commons building was constructed the Old Main administrative building was able to undergo renovations. Old Main is a building that grew organically overtime with multiple additions at separate years. The school was left with a disconnected building that was difficult to access and navigate. Phase II renovations addressed the building's issues by accommodating accessibility and circulation with a new elevator and stair tower. After the demolition of the old dining and kitchen areas in Old Main space was available to connect the building at its various levels. The addition to Old Main also houses an extension of the existing library.

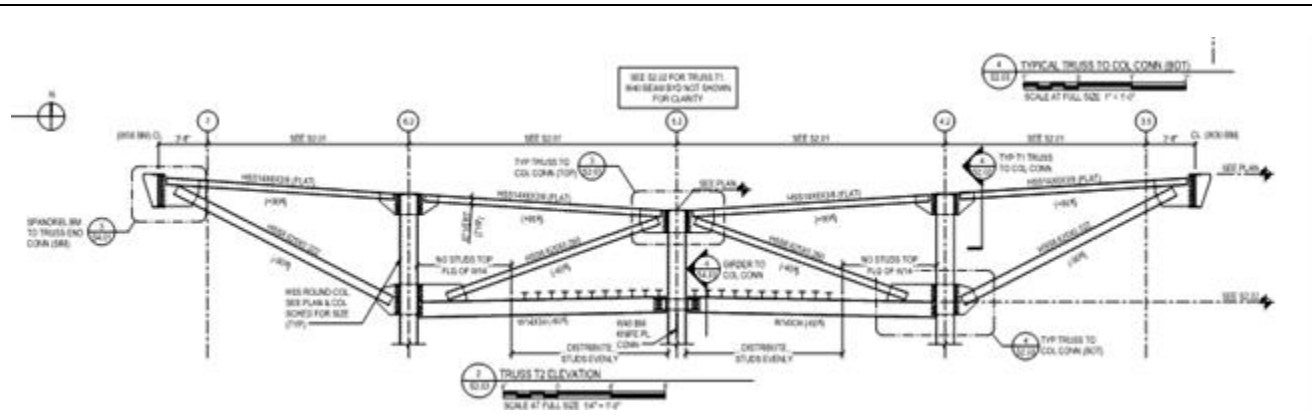
Phase II is nestled within an older, existing building. Challenges included working with the existing building and the discovery of conditions that were unexpected. Sections of walls needed to be replaced that were initially thought to be intact, expanding the scope of the project. Even with setbacks the project was completed successfully on time.

- The following 5 pages (maximum) can be used to portray your project to the awards committee through photos, renderings, sketches, plans, etc...



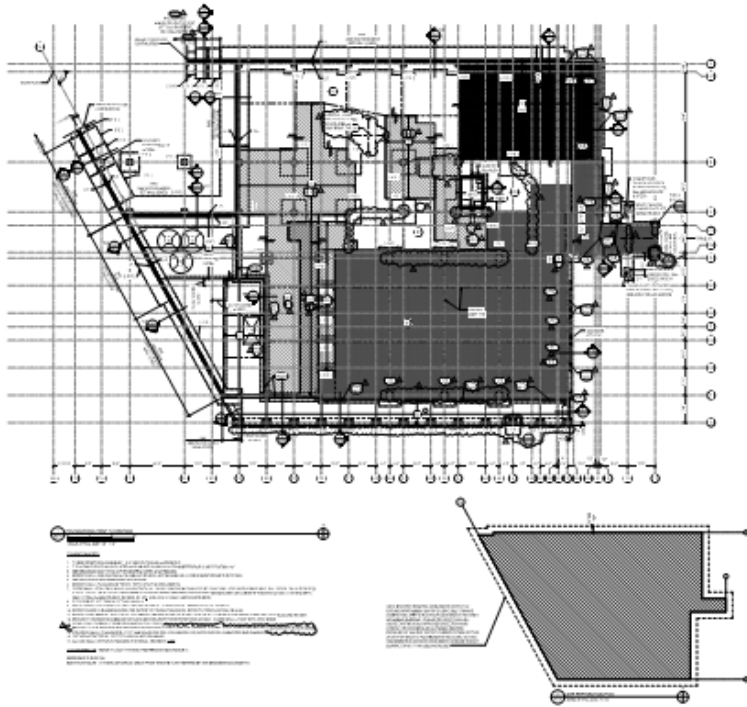
Overview of the new Student Commons building at The Shipley School, Phase I (photos © Keast & Hood) Top image: Ribbon Cutting for the Student Commons | Bottom Image: Building illuminated at night, articulating the amount of light the clerestory provides to the interior space.





Top drawing shows the complicated steel trusses utilized for the Student Commons building to provide a small profile at the edges, with no corner columns. This design provides a large amount of available, natural light to enter the building.

Bottom Image: Example of the structural steel trusses during construction.  
 (photo © Keast & Hood)



Top drawing shows the site with the first floor half at grade and half below.  
Bottom Image: Example of the sloping site. (photo © MGA Partners, Architects)



Phase II renovation and addition to the Old Main building. Top image: New elevator shaft and corridor addition during construction. Bottom image: Exterior view of the Old Main addition and renovation completed. (top photo © Keast & Hood | bottom photo © Shipley School construction camera)



By signing, signatory agrees to the following and represents that he or she is authorized to sign for the structural design firm of record:

*All entries become the property of DVASE and will not be returned. By entering, the entrant grants a royalty-free license to DVASE to use any copyrighted material submitted.*

Submitted by:

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