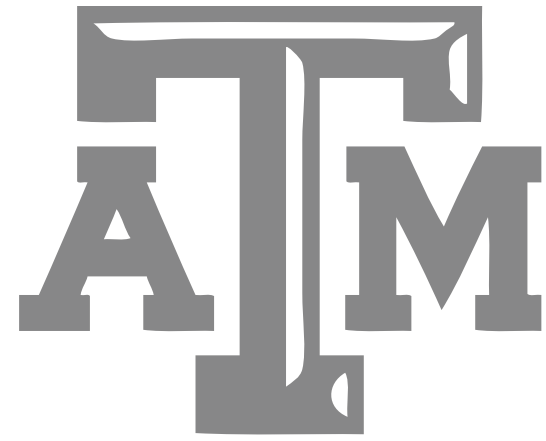


# Centro Basico/Comunal de Santa Rosa

Global Architecture Brigades Design Competition



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## Global Architecture Brigades Design Competition

Texas A&M Global Architecture Brigades (2010-11)

Southern Ellis	Master of Architecture (Class of '11)	President
Brad Bertrand	Master of Architecture (Class of '11)	Vice President
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Scott Dossey	Construction Science (Class of '11)	
Paul Rodriguez	Environmental Design (Class of '11)	
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Kelsey Aschenbeck	Environmental Design (Class of '12)	
Clint Stanford	Environmental Design (Class of '13)	
Amy Rabb	Master of Science in Construction Management (Class of '12)	

Academic Advisor  
Dr. Jorge Vanegas  
Dean - College of Architecture, Texas A&M University

website: [www.wix.com/south09/brigades](http://www.wix.com/south09/brigades)  
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The mission of the Centro Basico/Comunal de Santa Rosa project is to design a secondary school to accommodate 7th, 8th, and 9th grade students from Santa Rosa and thirteen surrounding communities. The facility will also adapt to become a community center/meeting space for the people of Santa Rosa.

#### DESIGN GOALS

**Flexibility** - Creating a campus that can adapt to accommodate a range of uses, serving as a facility that is more than a school, but a community gathering ground.

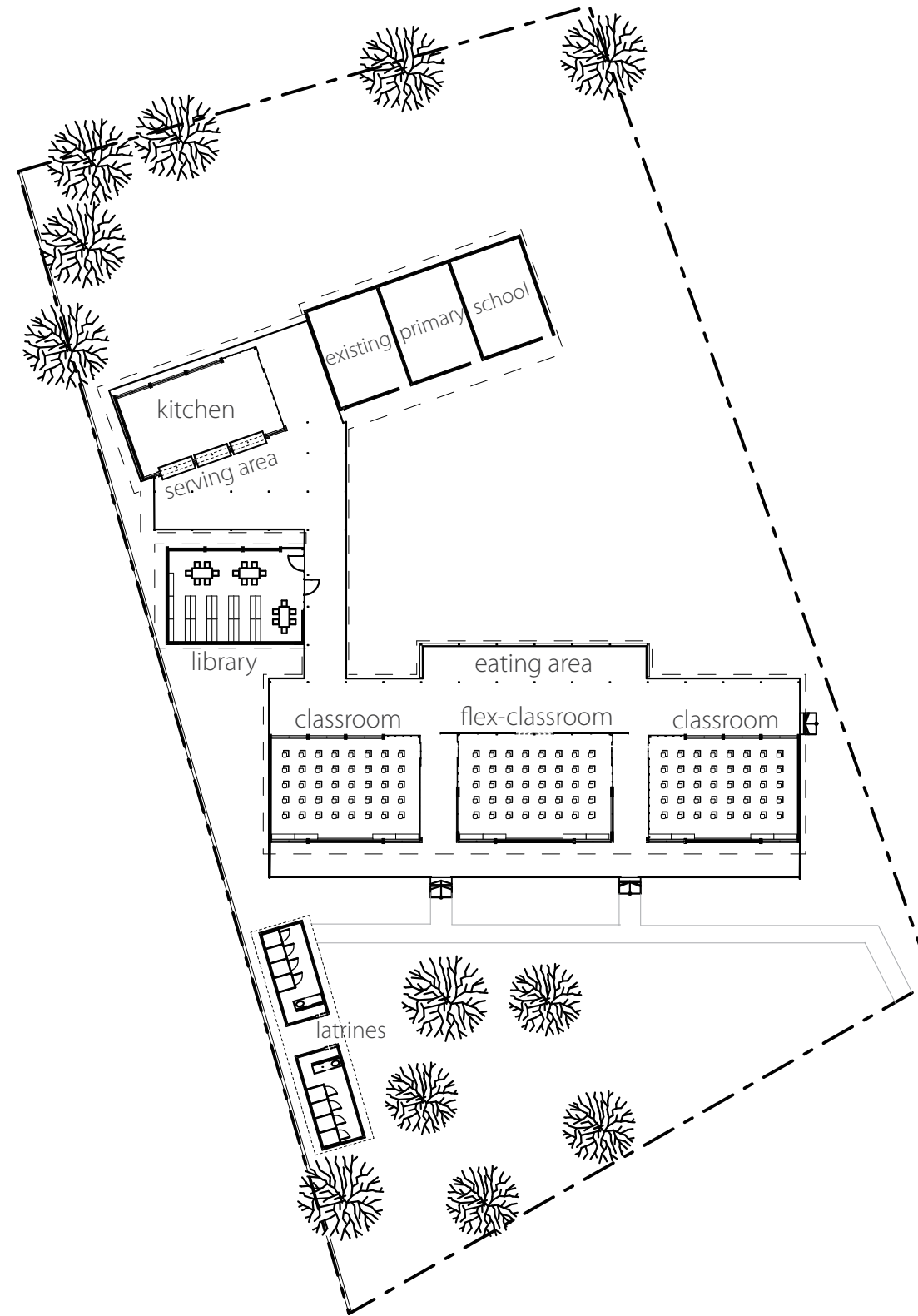
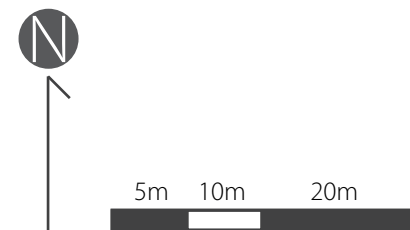
**Contextually Appropriate** - Utilizing passive cooling techniques, maximizing natural lighting, and embracing locally available construction materials and techniques to create a design that compliment its environment.

**Interactive Learning Environment** - Creating shaded unprogrammed spaces and maximizing views to the outdoors, allowing students to learn through the interaction with their environment.



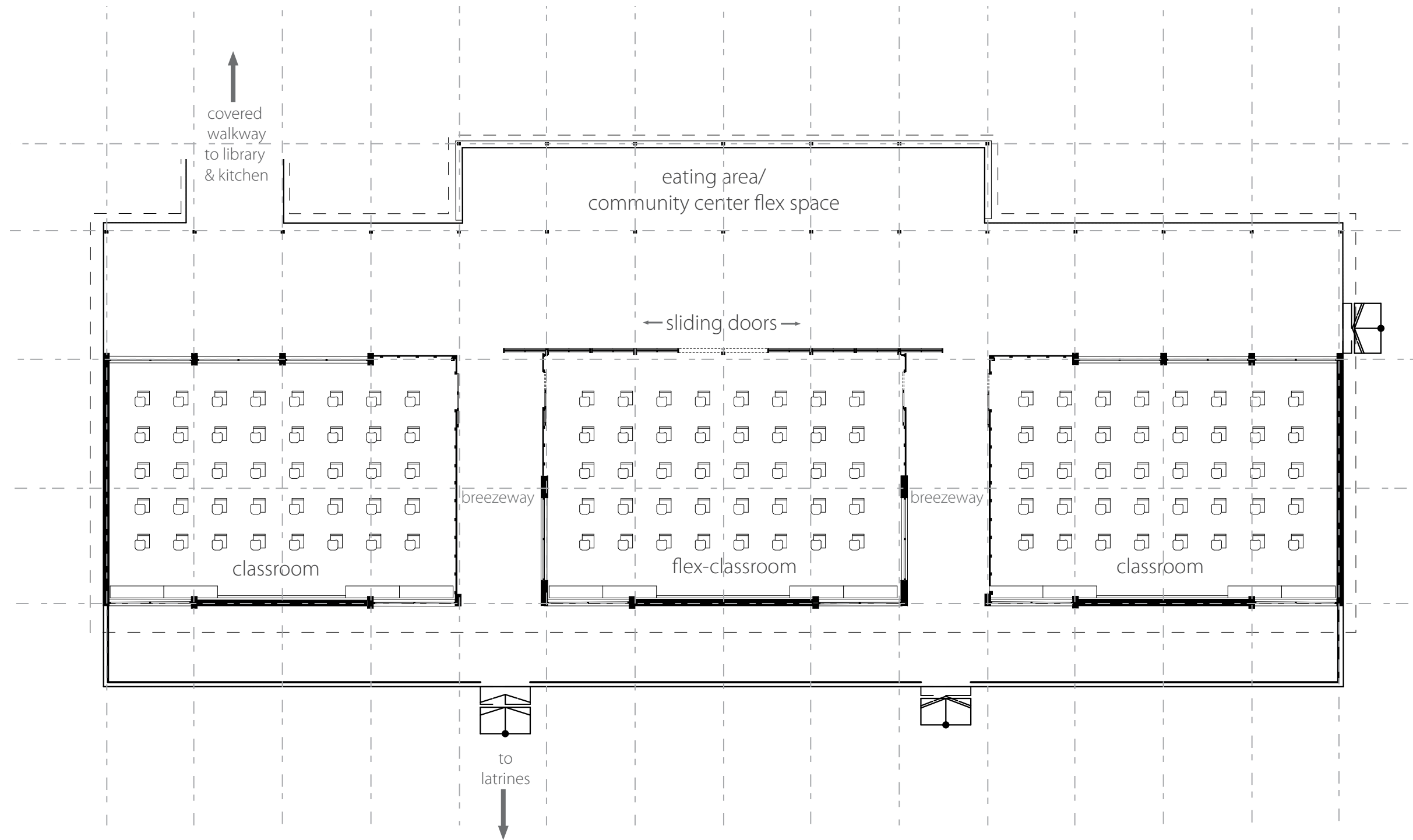
### site plan

The layout of the buildings on the site of the existing primary school arranges the new buildings on the campus around a central recreational courtyard. The classroom spaces, connected through covered breezeways, are at the southern portion of the site and face due north to utilize the prevailing northern winds of the area. A covered outdoor eating area can be found attached to the center classroom which has the ability to transition into a larger community meeting space. A covered walkway connects the library and kitchen buildings to the classroom area. The latrines are located downwind from the classroom spaces along a short walking path amongst the trees.





The building orientation and shape allows it to catch the prevailing winds coming from the north and funnel them through the building, while at the same time block the harsh southern sun.



### classroom building

The classroom spaces, connected through covered breezeways, face due north to utilize the prevailing northern winds of the area. A covered outdoor eating area can be found attached to the center classroom which has the ability to transition into a larger community meeting space. A covered walkway connects the library and kitchen buildings to the classroom area. The latrines are located downwind from the classroom spaces along a short walking path amongst the trees.





**flexibility** - the interior classroom's walls can slide open to form a large community gathering space





## construction

The design of the buildings on the campus feature an array of locally available building materials assembled using simple connections and joints. Generic wall, roof, and window details are replicated throughout the facility to allow for easier construction.



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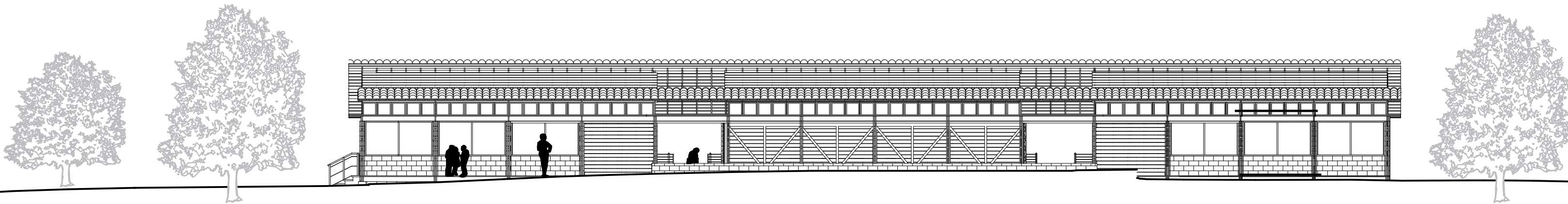




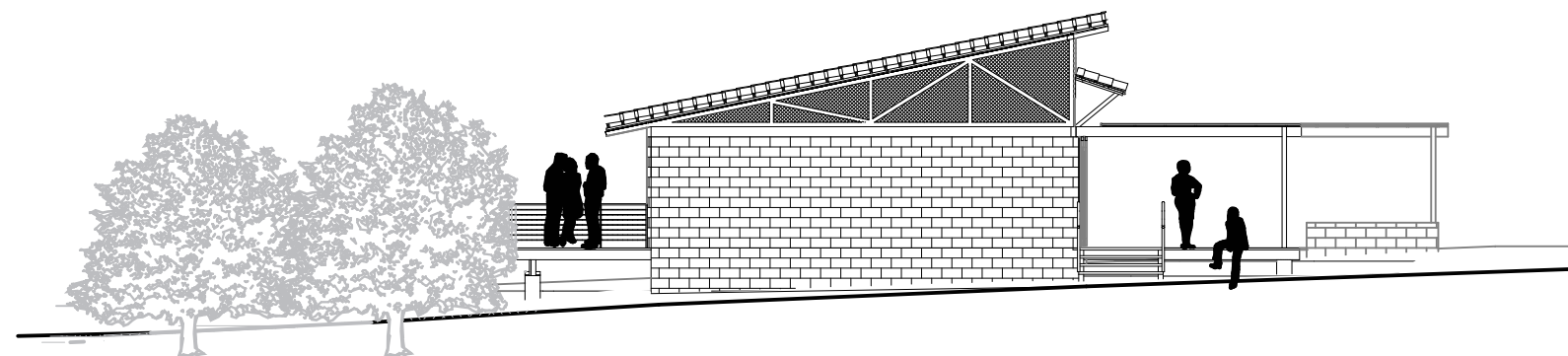
covered walkway detail

### construction

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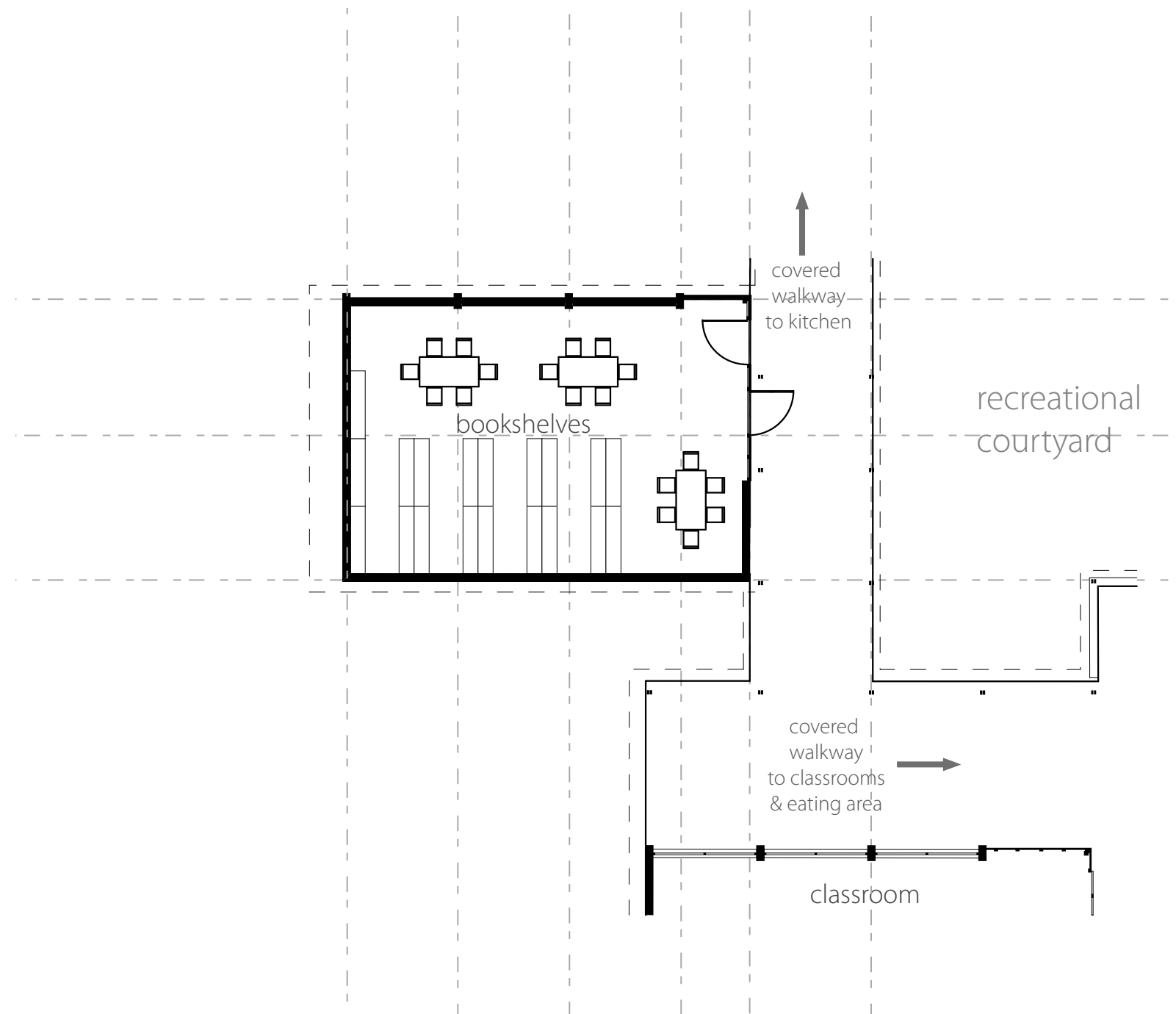
North elevation of classroom building from courtyard



East elevation of classroom building



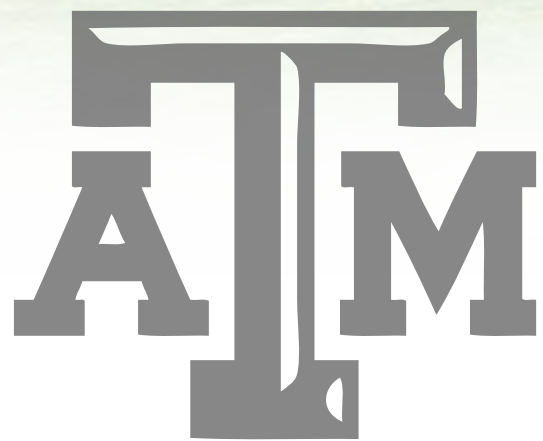
NOTE: the elevations of the library and kitchen facilities are not shown, they utilize the same detailing as the classroom building.



library

2.5m 5m 10m





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