Passive House Affordable Housing

A Collaboration between UMA Architecture, Maine State Housing Authority, and the Augusta Housing Authority





Who we are

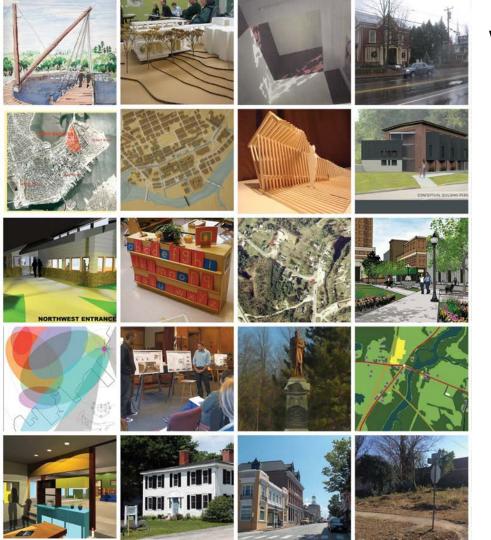
UMA Architecture

ARCHITECTURE through ENGAGEMENT

UMA's Bachelor of Architecture (B.Arch.) program offers the only professional architecture degree in Maine and the only public 5-year professional degree in northern New England.

Our mission expresses who we are: *SMALL... INTEGRATED... HANDS-ON.*





Why community-based design work?

Community Collaboration

SMALL... INTEGRATED... HANDS-ON

35+ projects over the past 8 years



Passive House Affordable Housing

The Partners





Maine State Housing & Augusta Housing Authorities



Mark Wiesendanger, MSHA Don McGilvery, MSHA Clyde Barr, MSHA Michael Baran, MSHA Amanda Olson, AHA

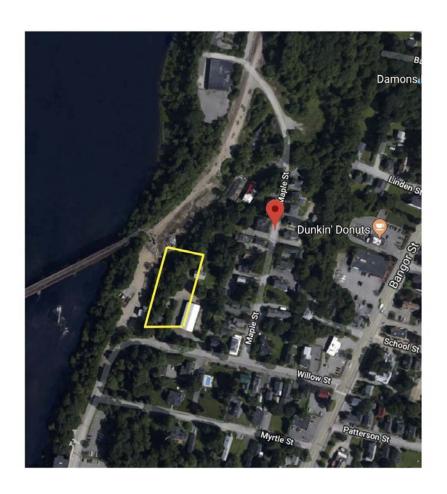




Maine State Housing & Augusta Housing Authorities



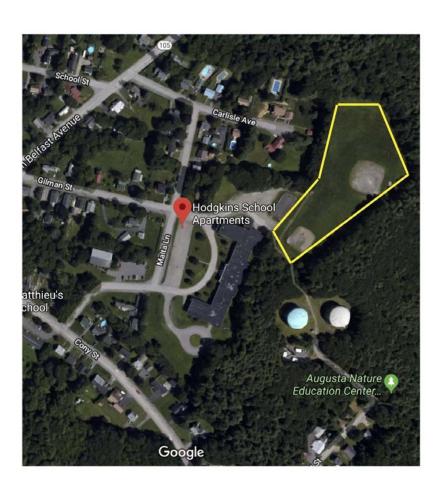
SITE: Willow Street



Maine State Housing & Augusta Housing Authorities



SITE: Hodgkins School



Maine State Housing & Augusta Housing Authorities





UMA.ARC Students





UMA.ARC Students





UMA.ARC Students



MSHA SITE COMPARISONS ARTURO LIZANO-ULLOA GAGE STREET WILLOW STREET HODGKINS SCHOOL Flat site in the middle of a "bowl"; three - Too narrow for clustering units; can only work for put - Site with the largest SQFTG - Flat site with slopes that direct away Sewage lines located on site; can either be Great view of Kennebec River; site position is steep worked with or need to be moved -Location is quieter than the previous Possible entry through Glendon St (non-main ossible erosion issue if units built too close to river two (varying on tenant type) - Easy pedestrian accessibility, difficult Possibilities for different unit orientations cessible from about three different position vehicular access to site

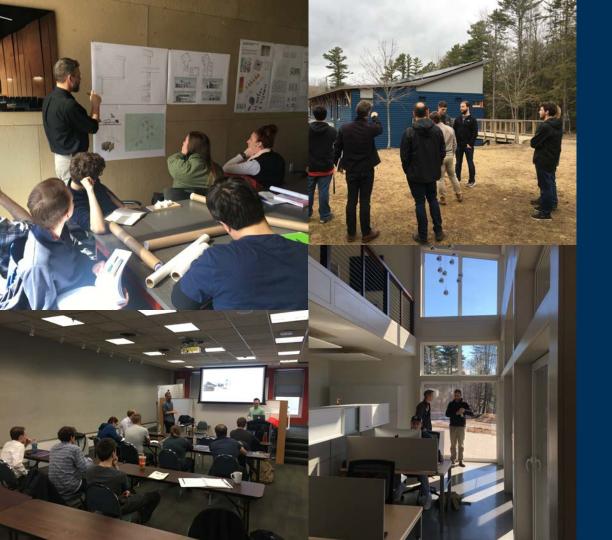
UMA.ARC Students



HOUSING TYPOLOGIES ROWHOUSE BEDROOM BEDROOM BEDROOM I KITCHEN DINING

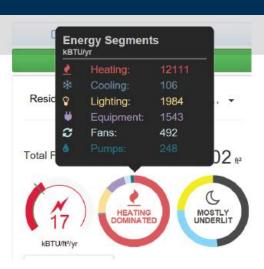
UMA.ARC Students





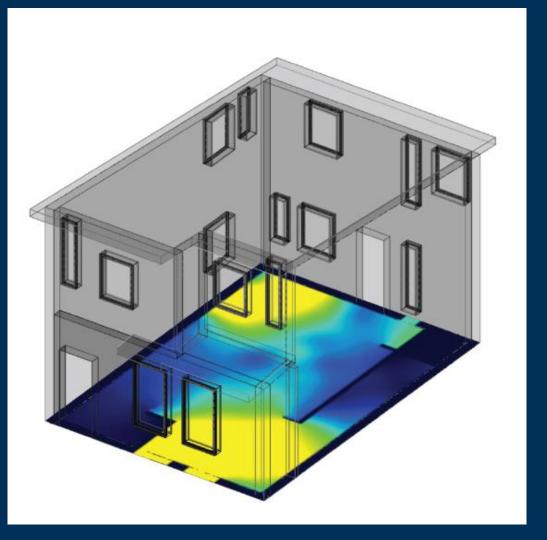




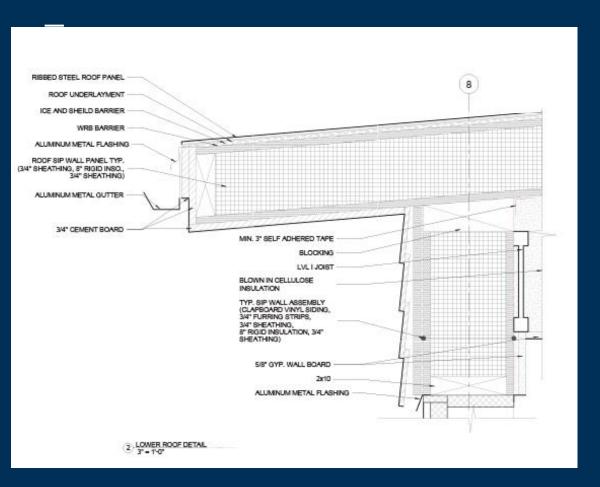














Timeline January 2019 Augusta Housing Authority joins the project May 2018 **January 2019** Kick-off meeting MSHA approaches UMA.ARC 2018 2019 **March 2019** November 2015 November 2018 First Presentation Translate written text from **Coordination & Planning** English or German to Arabic with the click of a camera

Passive House Affordable Housing

The Results



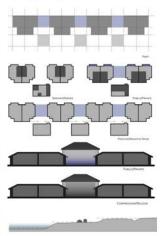
COMMUNITY ON THE KENNEBEC



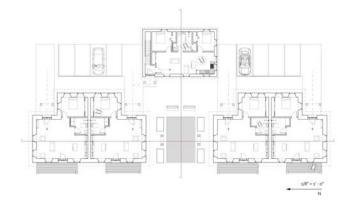
Elderly housing tends to have a bad reputation due to the number of negative stereotypes associated with it, like being lonely, but can architecture change this stereotype?

The intent of this project is to create spaces that give seniors a sense of belonging and draw them into the community created by the project.

This will be achieved by creating warm, comfortable spaces where seniors can enjoy alone time as well as family visits, while simultaneously having an energetic community space which encourages interaction with others and their surroundings. Finding a way to create these homes at an affordable costs will help alleviate any financial strain seniors may already be feeling.





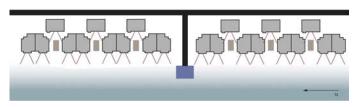




Roberta Trafton

Community on the Kennebec

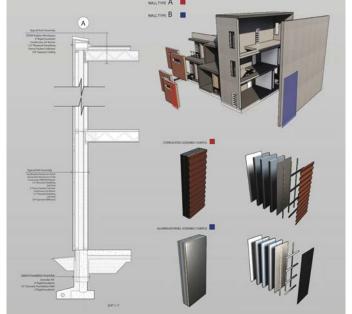
Straw bale construction & building senior community











Andrew Treworgy

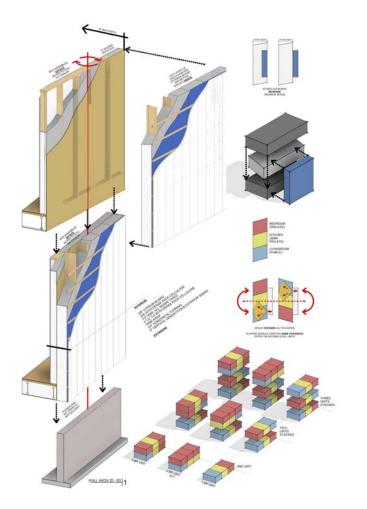
The Woven Environment

Panelized
Assembly &
weaving
community





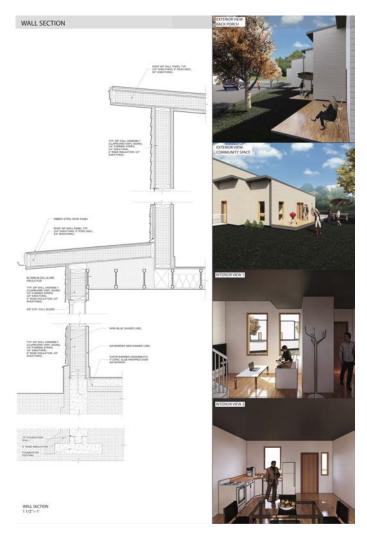




Matt Holland

Blending Community

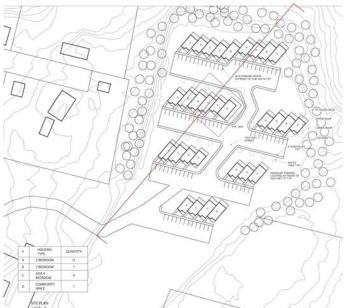
Modular construction & on-site passive house construction







Structural
Insulated Panel
Construction

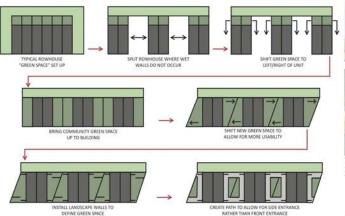








Outdoor Ownership





Personal outdoor green space for all













Sam Gerken

Communicating with those in Need

Empowering an Individual's Humanity

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What people are saying

Having worked in affordable housing for well over a decade, it was refreshing to see so much engagement, innovation, and passion.

Amanda Olson, AHA

The students were very thoughtful and you could tell that they truly care about this project.

Mark Wiesendanger, MSHA

Our community partners gave their time and input generously. It was an amazing learning experience for these future architects.

Eric Stark, UMA.ARC

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THANK YOU!

