



Calverton Aviation and Technology

August 17, 2018

AERIAL VIEW



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ENTRY VIEW



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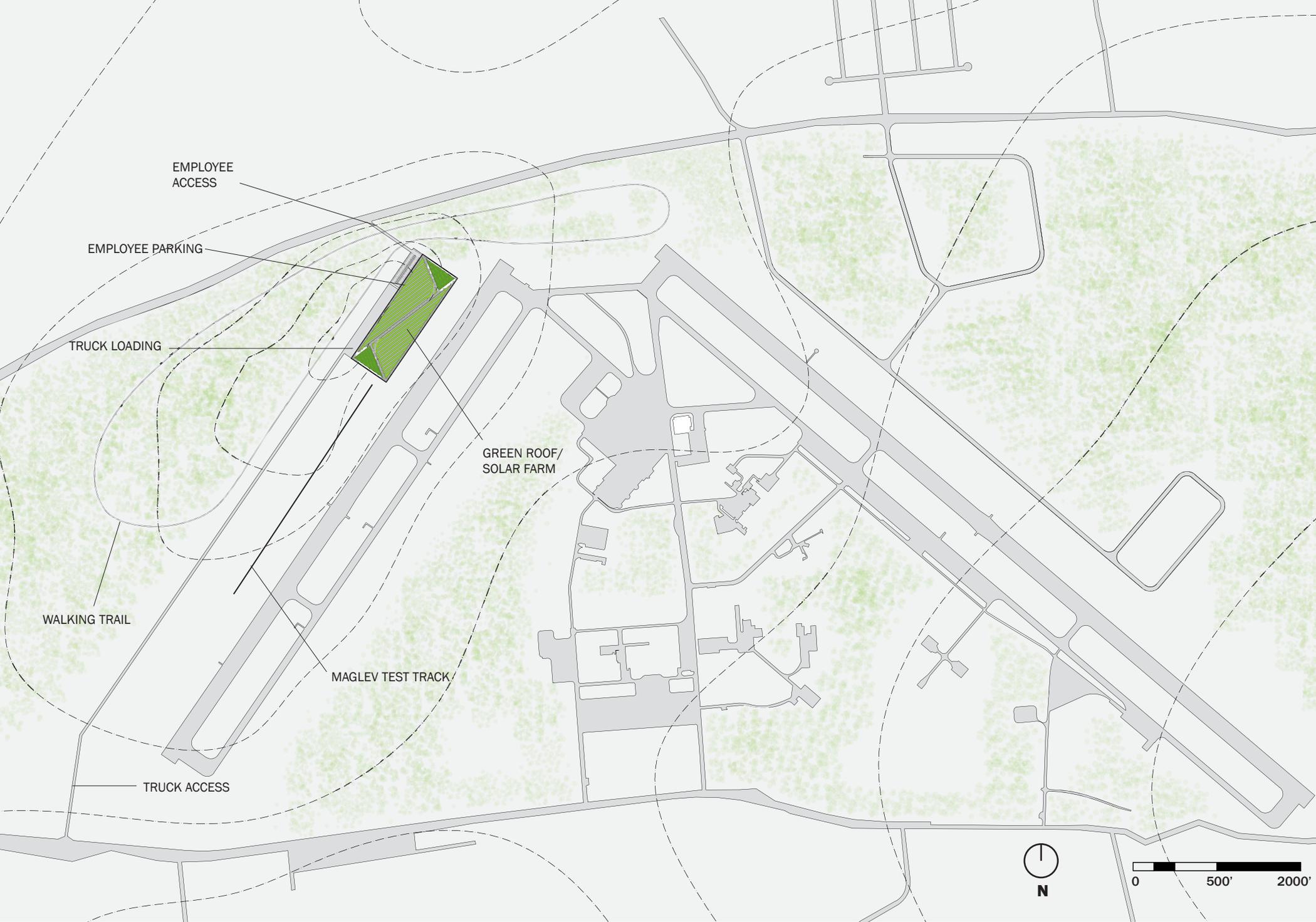
ROOF VIEW



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INTERIOR VIEW



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bld architecture

SITE PLAN

Intro: Riverhead has Soul

Riverhead doesn't need to change. In fact it shouldn't. There are few places in Long Island where you can find a historic downtown, complete with a new professional Ballet Company and a third generation hardware store. However, like any living organism it needs to grow. Our goal for CAT is to create a considered catalyst for Riverhead and Long Island that creates an economic and cultural center for the region while still maintaining the heart and soul of what makes Riverhead special.



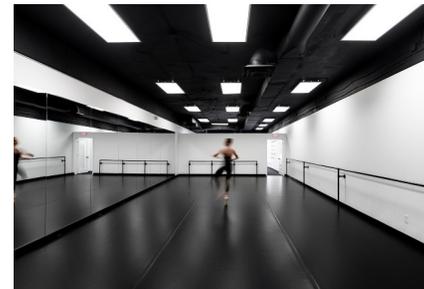
Star Confectionery



Suffolk Theater



Griffing Hardware



Peconic Ballet Theatre



Briermere Farms



Grumman Park



Vail-Leavitt Music Hall

1. Create the Catalyst

Calverton's location places it in close proximity to science and tech location, as well as several important cultural destinations, including Brookhaven National Lab, The Tesla Science Center and the Parrish Art Museum. Its location also serves as a gateway to both the North and South Fork and is a perfect base to go either East or West on Long Island.



1 Off-Shore Wind Farm



2 Parrish Museum



3 Shoreham Harbor



4 Brookhaven National Lab



5 Martha Clara Vineyard



6 Dowling Sports Campus



7 Southampton Village



8 Ditch Plains Montauk

2. Use the Grade

Using the site's natural topography, the building is placed in a hollow which allows it to have a stronger relationship with the earth. Like the potatoe barns that dot the landscape, the building has a connection to the fields and the farm history of the region. The siting also helps reduce the effect of the building's mass, minimizing the experience of its height from Rt. 25.



Nearby Potato Barn



Aerial



Site Photo



Aerial



Site Photo

3. Make the Farm

A large green roof planted with a combination of native grasses and wild meadow plants further ties the building to its neighboring surroundings and adds to the sustainable nature of the building's design. The green roof helps retain rainwater as well as provide insulation for the building, and can serve as a protected natural habitat for multiple native animal and bird species. Smaller scale agricultural projects will also take place on the roof.



DeLalio Sod Farm



Hypar Pavilion - Diller Scofidio



Strawberry Farm



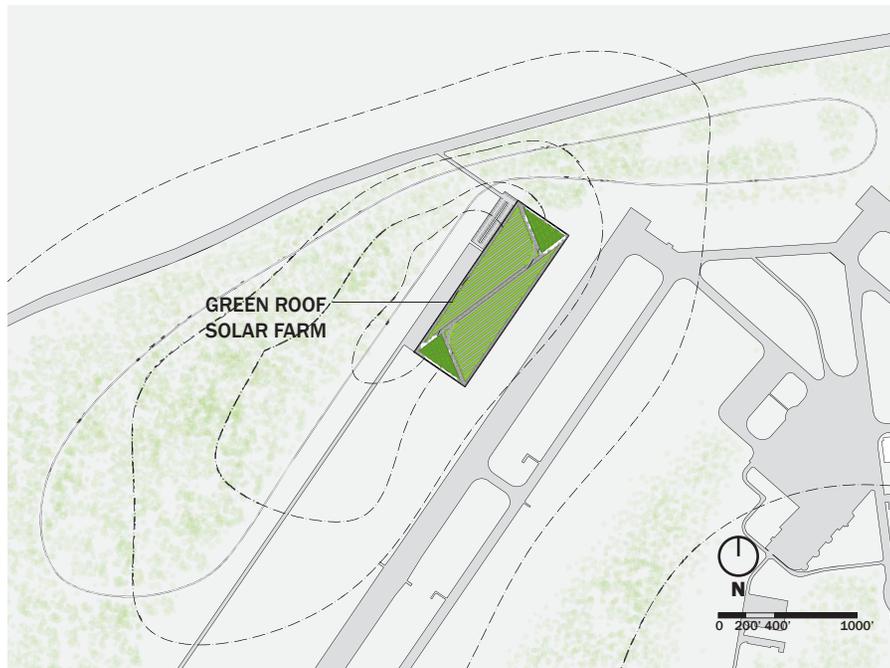
Delft Library - Mecanoo



Espace Bienvenüe - Jean-Philippe Pargade

4. Give Back to the Grid

Solar panels on the roof and adjacent to the runways helps to make the facility energy net neutral. Energy will be stored in batteries and added to the grid when on-site needs are met. Solar Panels will be non-reflective to decrease glare for aviation tests and for visitors. They will also be mounted above the roof plantings which will be chosen for their ability to grow in shade.



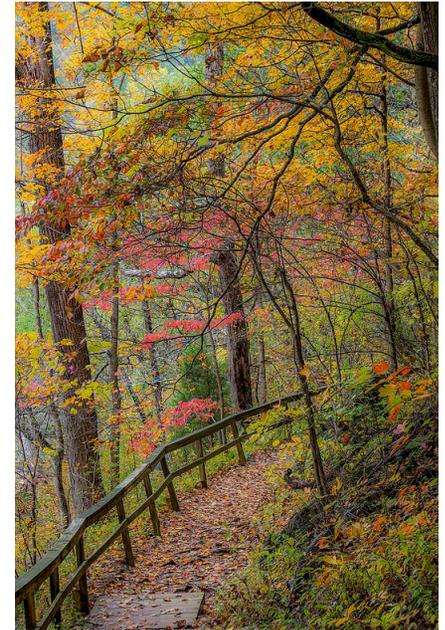
Solar Panel and Green Roof Installation

5. Invite the People

Walking trails as well as roof access bring the public around and on top of the building for community events and individual recreation. Times will be designated for the community to access “pick-your-own” events on the rooftop berry farm areas.



Walking Trail: Summer



Walking Trail: Fall



Rooftop View

6. Bring Back Aviation

Aviation Research, Development, and Manufacturing has played a vital role in the regions history. We propose bringing this industry back to Riverhead in a robust and effective way. The existing airstrip will be put to use for research and development of aviation and aerospace technology, and the facility will support these endeavors with areas for testing and manufacturing equipment for the aviation industry.



Aviation Tech



Grumman Drone



Grumman Air Field



F-14 Tomahawk



Interior View



Grumman Hangar

7. Teach the Next Generation

High School and Vocational Students will figure prominently in the Educational outreach programs at Calverton. Classes will utilize the outdoor walkways and green roof, and programs within the facility will invite STEAM classes to take part. There will also be a vocational program to help train workers for the various industries that will reside in the facility.



High School Students



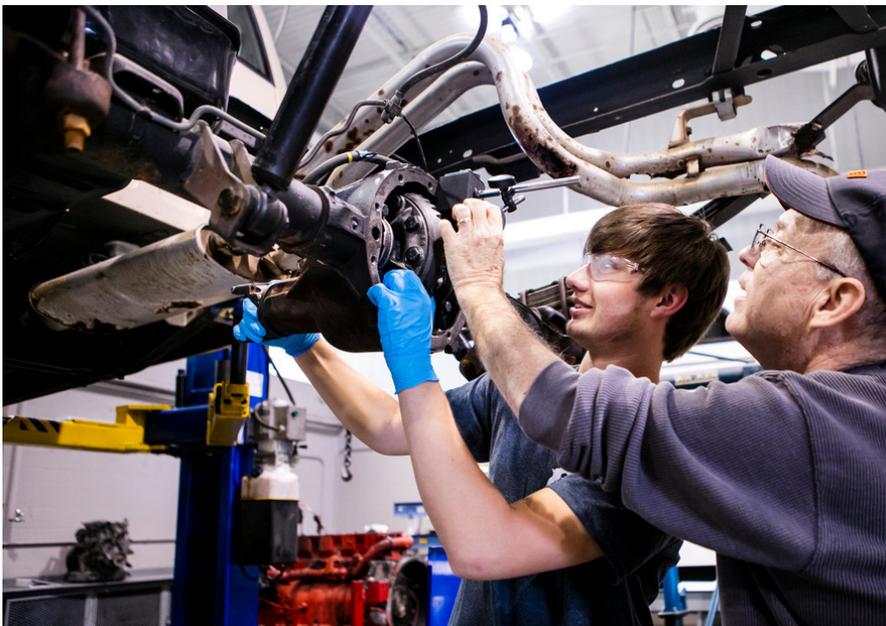
Outdoor Classroom



Vocational Students



Science Class



High School Engineering Class



Aviation Workshop