

Construction Update

Virginia Institute of Marine Science

Committee on Buildings and Grounds

Board of Visitors of the College of William

and Mary in Virginia

November 18, 2009



Tropical Storm Ida/ Nor'easter Damage

November 11-13, 2009



Tropical Storm Ida/ Nor'easter November 11-13, 2009

- Damage estimated at \$20,000-\$30,000
- Destroyed or Damaged
 - Boat Basin Area
 - Approximately 14" of seawater flooding in most buildings
 - 30" of seawater flooding in Finfish Greenhouse
 - Walls, floors and furniture destroyed in Dive Locker
 - Water damage from leaky roofs and drains campuswide
 - Eastern Shore Lab-flooding
 - Kauffman Center-damaged trees

Boat Basin

Flooding



Finfish Greenhouse

Eastern Shore Lab

During Nor'easter



Coastal Flooding

Aftermath

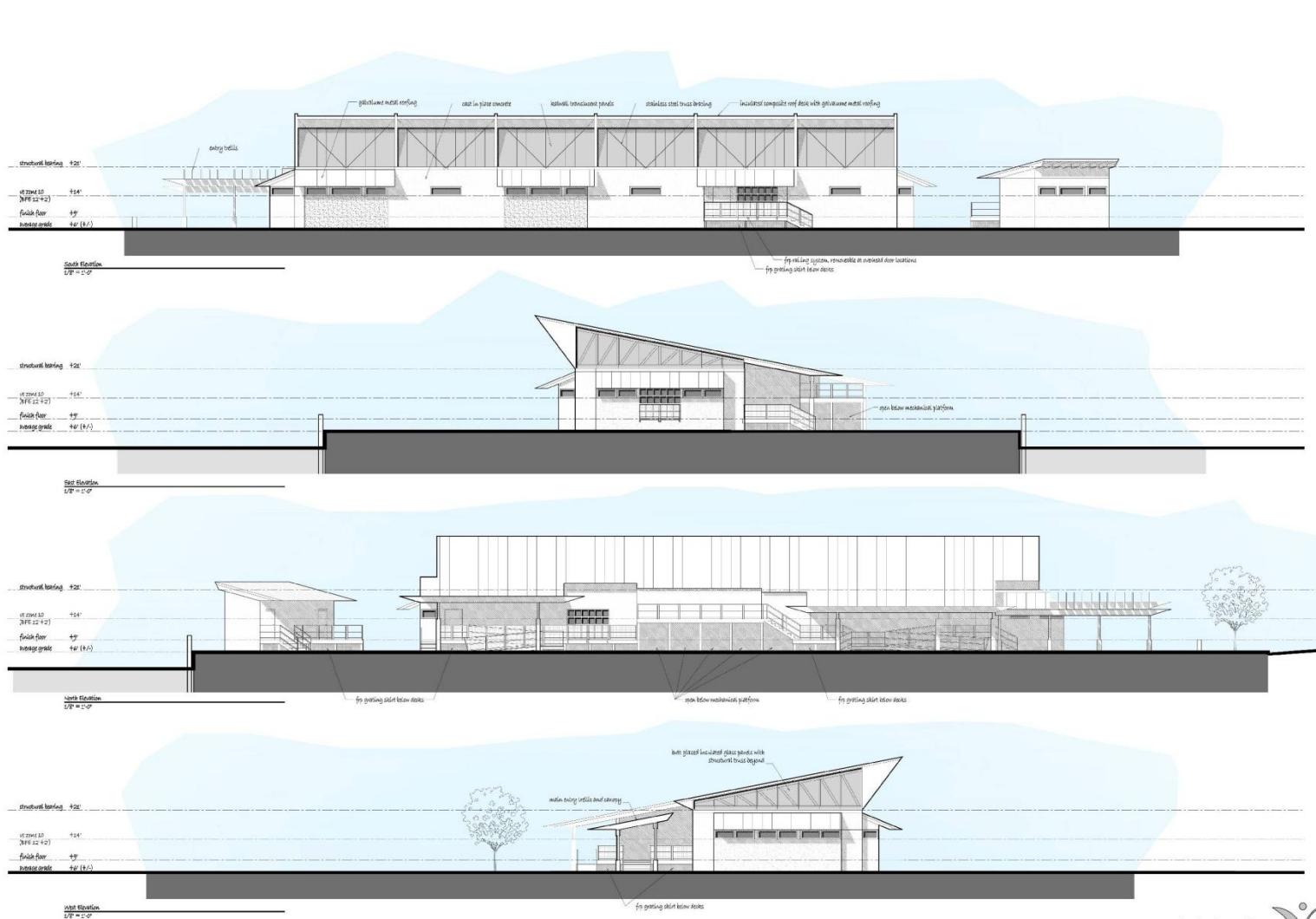


Small mountain of “sea-oats” debris

Projects In Design

Project	Type	Start Date	End Date	Cost (in millions)
Eastern Shore Seawater Laboratory	Replacement	July 2008	Spring 2011	\$4.2
Shoreline Erosion Control	Improvement	July 2008	June 2010	\$1.2
Research Storage Facility	Replacement	August 2002	August 2010	\$0.6
CBNERRVA Property Acquisition: Catlett Islands	Property Acquisition	July 2009	June 2010	\$1.5

Eastern Shore Seawater Laboratory



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WACHAPREAGUE, VA
VIMS ESSL

SCHEMATIC ELEVATIONS

4.7.200



VIA design architects

Projects Under Construction

Project	Type	Start Date	End Date	Cost (in millions)
Field Support Center	New	February 2005	Dec 2009	\$2.0
Electrical Upgrades: Chesapeake Bay Hall	Improvement	Sept 2007	March 2010	\$0.3
Construct Concrete Pier	Replacement	August 2007	Nov 2009	\$1.45

Field Support Center



Elevated to avoid storm-surge flooding





Ferry Pier



Ferry Pier in Parking Lot

Hurricane Isabel 9-18-03

Oyster Hatchery Pier



Oyster Pier

Tropical Storm Ernesto

9-1-06

During the Storm



Oyster
Pier

Immediately After the Storm



Ferry
Pier



New Concrete Pier



New pier performed as
designed and had no damage
from recent nor'easter



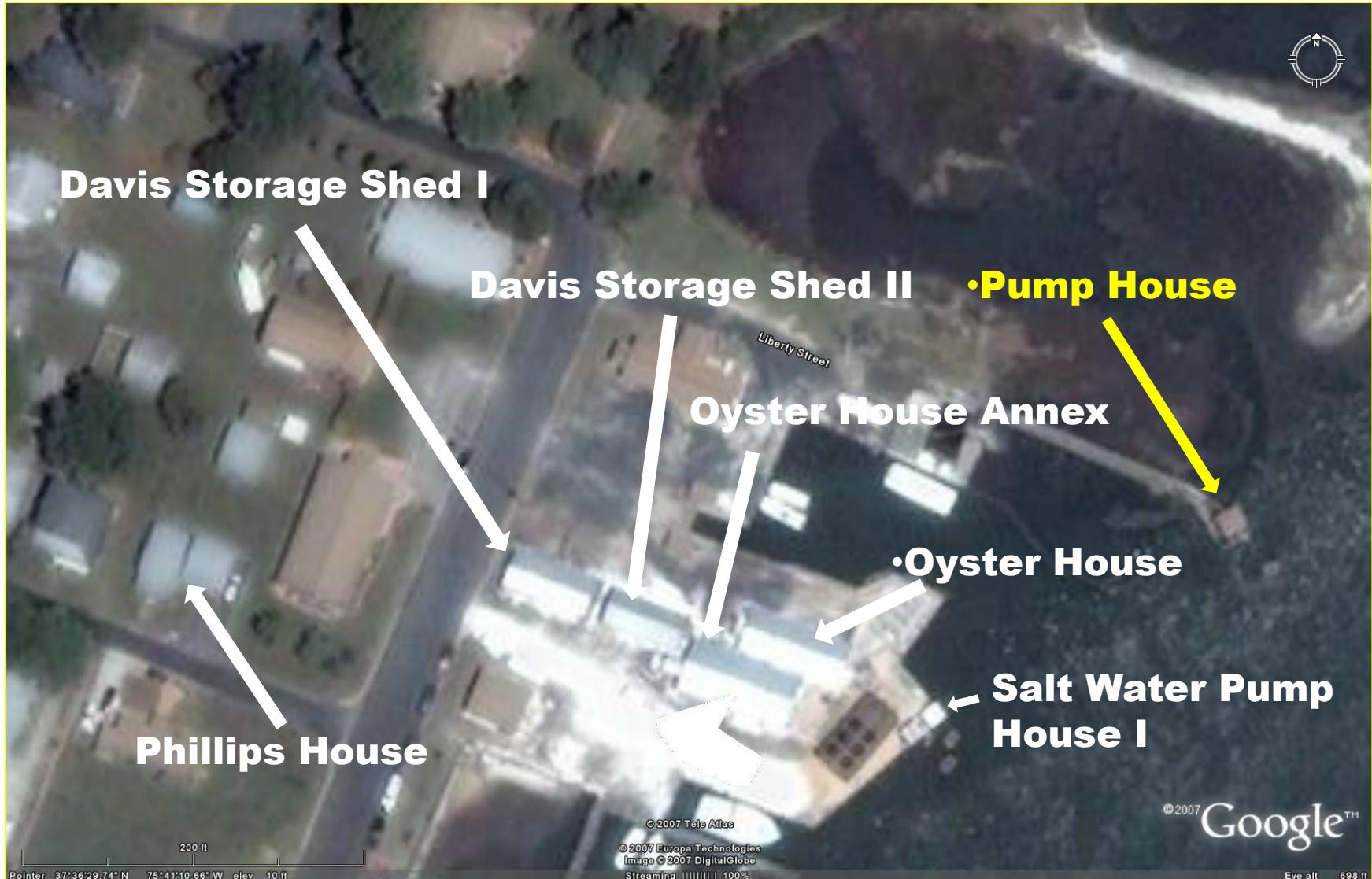




Pier Closed
Temporarily
due to unsafe conditions
No Trespassing.

Maintenance Reserve

- Planning
 - Evacuate Bank behind Collapsed Wood Bulkhead (\$180,000)
 - Replace Air Handlers in Watermen's Hall (\$443,000)
 - Replace Chiller Rack, Electric Boiler and Cooling Tower at Watermen's Hall (\$388,000)
 - Various Roof Replacements (\$78,000)



VIMS

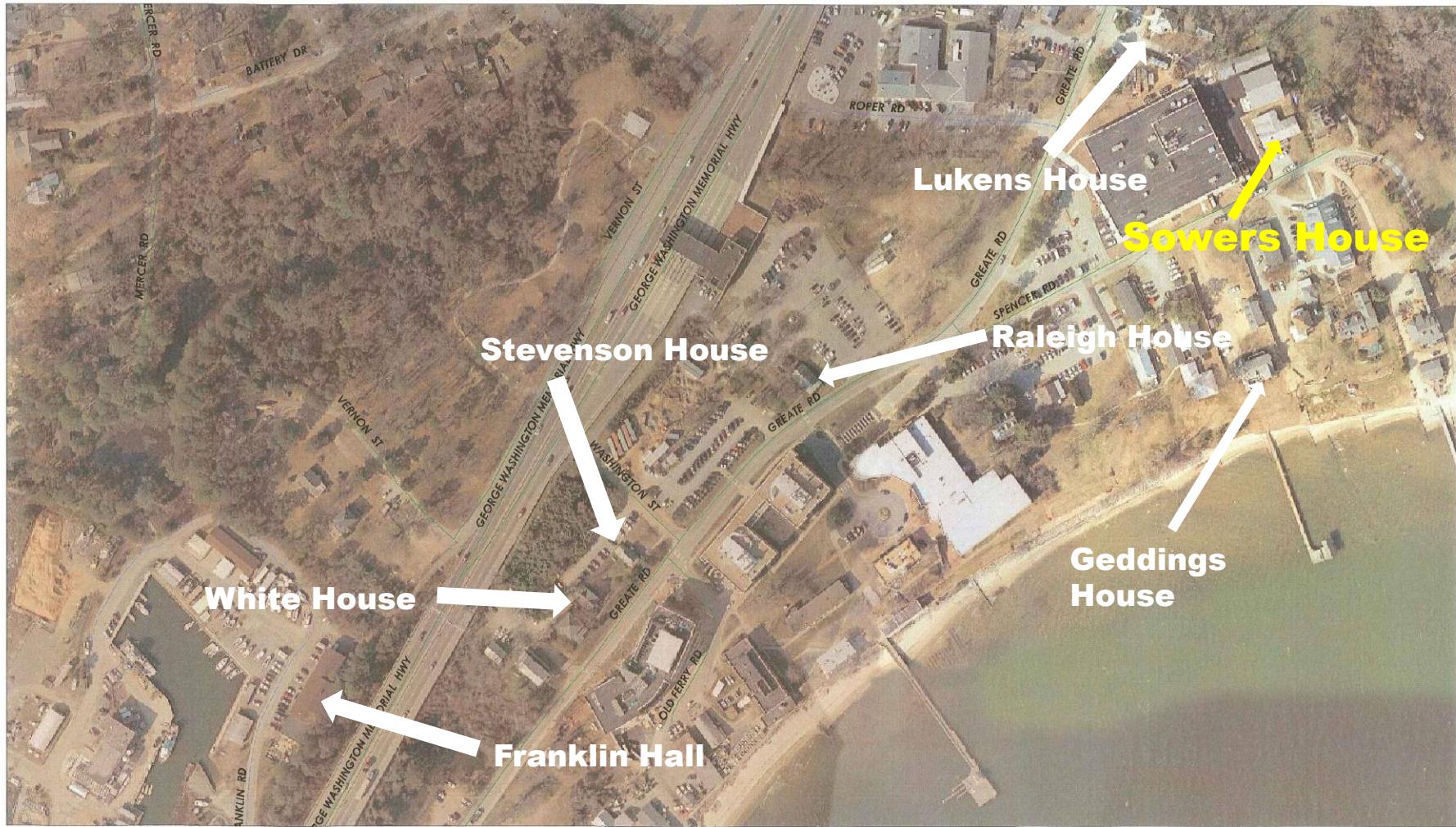
Resolution 4: Demolish the Pier House at the Eastern Shore campus



VIMS

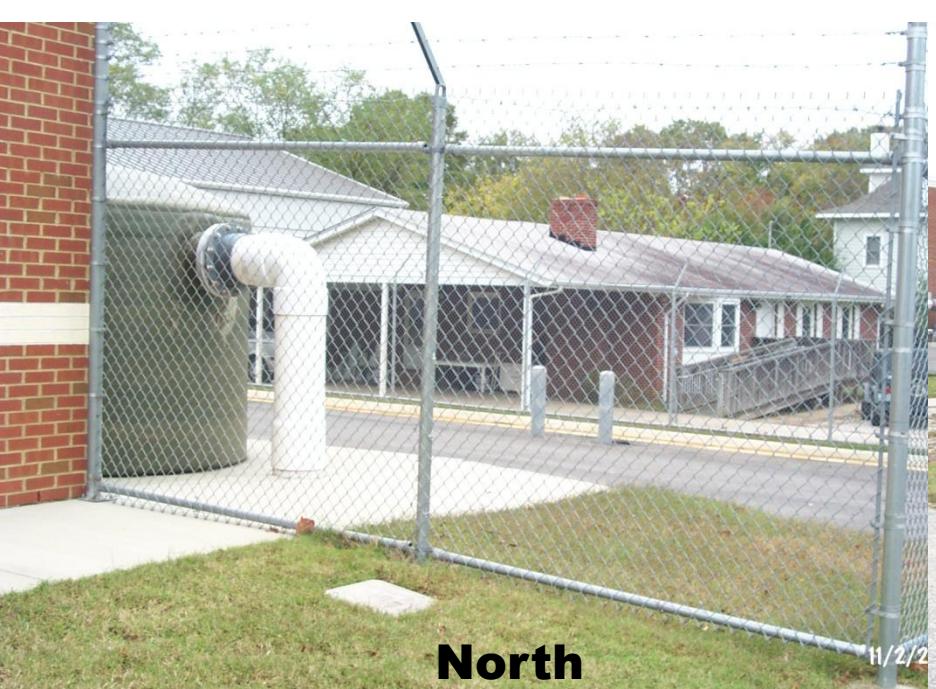
Pier House

FAACS 00B88



VIMS

Resolution 4: Demolish the Sowers House to relocate external research tanks on the Gloucester Point campus



North



South



East



West

Sowers House

VIMS

FAACS 0B114



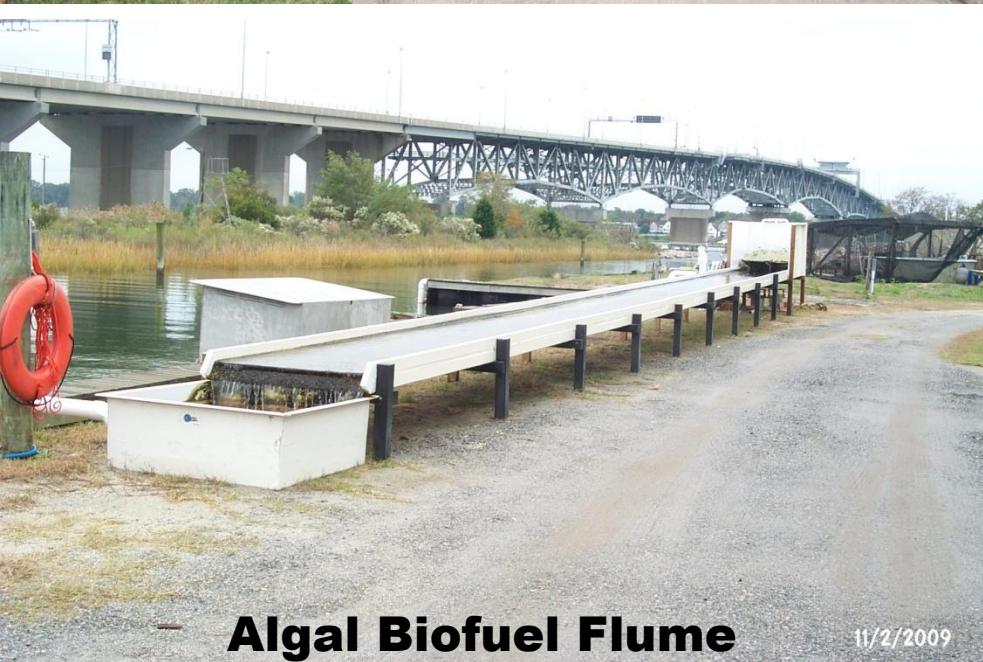
Mesocosm Tanks

11/2/2009



Crab Tanks

11/2/2009



Algal Biofuel Flume

11/2/2009



SAV Flow-Through Tanks

11/2/2009

Outdoor Tanks

