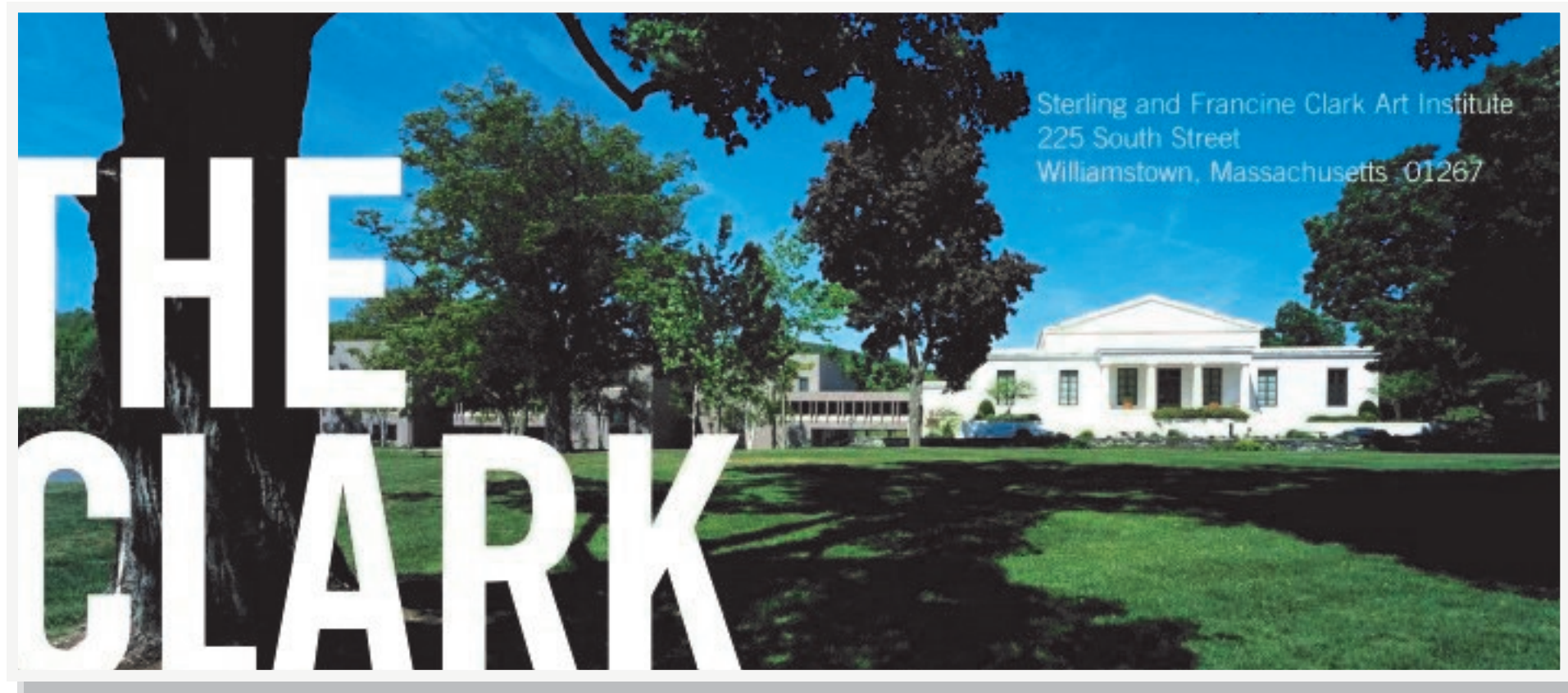


# The Sterling & Francine Clark Art Institute

Williamstown, MA.

Mohamed S. Alali,  
Construction Management



## General Building Data

- Building name: Plant Sterling & Francine Clark Art Institute
- Location: Williamstown, MA
- Building Occupant Name: The Clark
- Occupancy: C-1, C-2 Art Museum
- Size: 78,800 feet squared
- Number of stories: First floor & Basement
- Construction Dates: June 2010 – October 2011
- Deliver Method and Cost information: GMP, Confidential

## Structure

- Foundation: 2 way reinforced cast in place (CIP) flat slab, mat slab, and concrete CIP walls.
- Columns: 18" x 18" concrete cast in place.
- Curtain Wall: glazed aluminum wall ( low-e coated, triple insulating laminate glass). Pre-formed intumescent fireproofing will be used, and fluid applied membrane air barrier will be placed in between the concrete and rigid insulation..

## Mechanical

- 2 main Hot Water Boilers supplying heat @ 150 HP to supply a NET MBH of 5021 per boiler.
- 6 heat exchanger units.
- 2 main chillers: Capacity: 290 Tons, 696 GPM



## Architecture

The First floor of the Clark's new addition would be an open area with glass walls all over to allow light to enter the building except the south side which would be a concrete cast-in-place reinforced walls which would also extend to be the southern wall of the tunnel connecting the museum to the existing building. The stairs in the center of the first floor leads to the basement. The north extension of the building will hold the utilities such as the electrical room and mechanical rooms.

## Electrical

- Distributed as 3 Phase 480Y/277V via dry type 2000kVA transformer.
- Emergency generator: 1500KW/1875 KVA.
- Luminaires Used: 120 V for CFL and T4's — 277V for T8, MH, LED lighting and Par 38.

## Sustainable

- The Sterling and Francine Clark Art Institute is committed to build a sustainable building to line up with the surrounding environment. It is built with recycled, regional, and even some renewable materials.
- The Building is aiming a LEED® SILVER Certification.



THE  
CLARK

Turner



CPEP Web Address:

<http://www.engr.psu.edu/ae/thesis/portfolios/2012/MSA5097/index.html>

PENNSTATE

