









# ARENA STAGE & THE AWI

# Arena Stage •Not-for-profit

- •Largest producing theater in North America (American plays) •First regional theater to:

- Transfer production to Broadway
   Receive Tony Award
   District of Columbia Inventory of Historic Sites

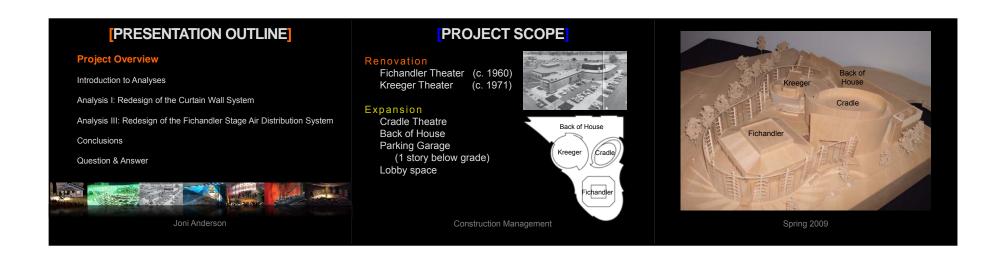
## Anacostia Waterfront Initiative (AWI)

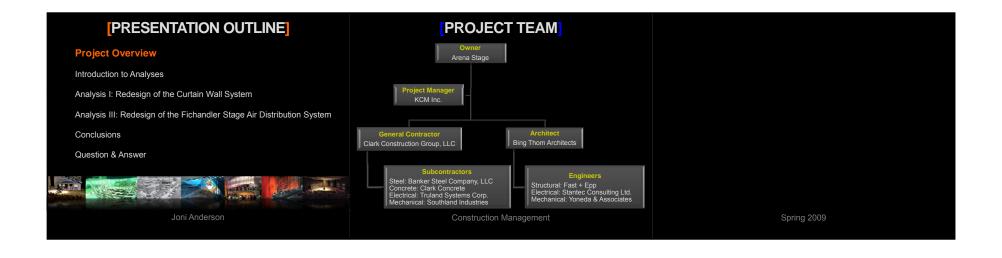
•Make Southwest DC a more alluring section of the city and join the ranks as a leading attraction

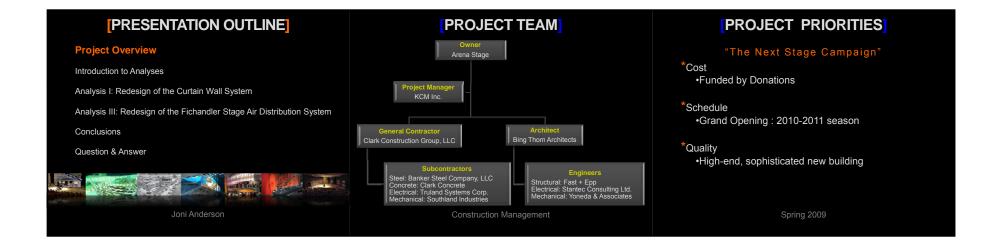
•City's #1 economic priority

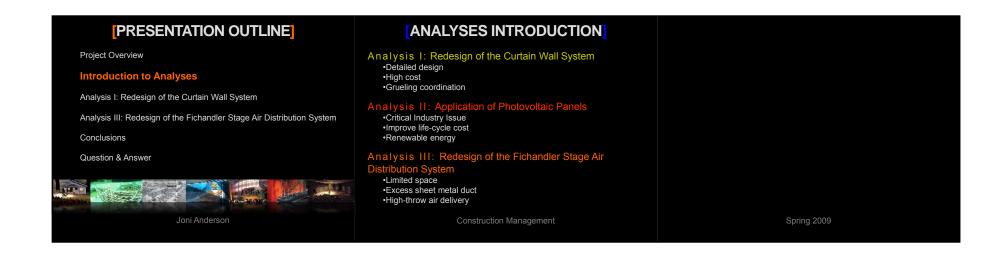
•Hope to have a contagious effect on other markets

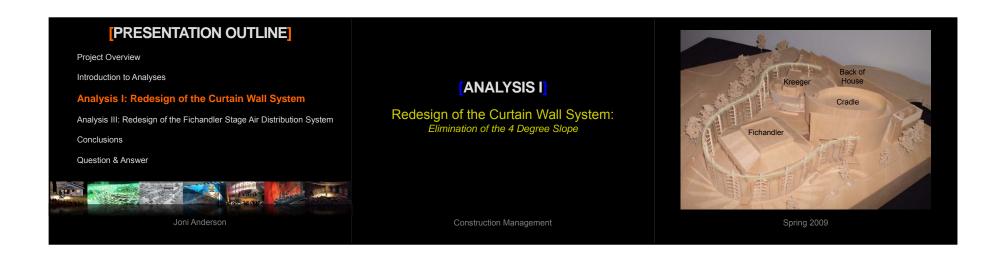
















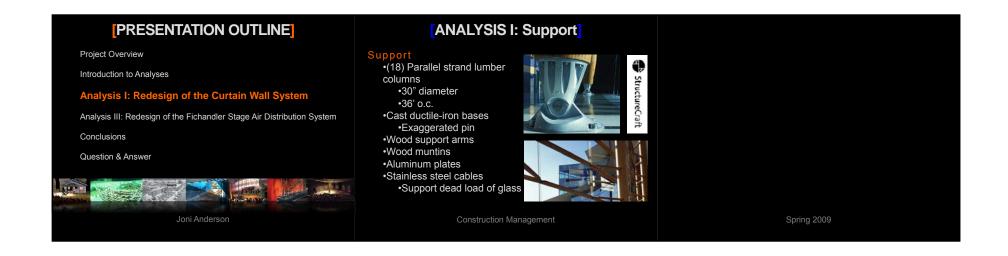
# [ANALYSIS I: Discussion]

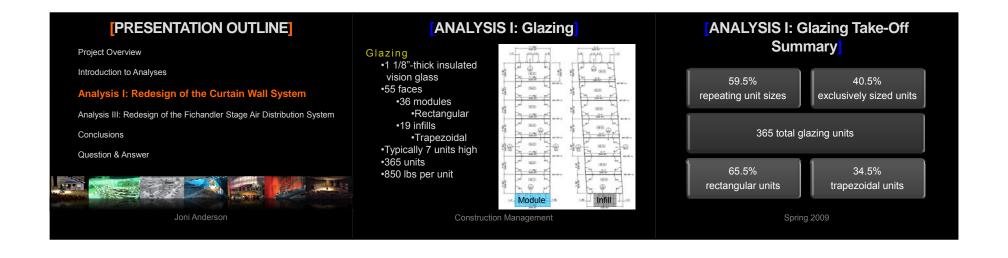
The 4 degree slope of the curtain wall causes the glazing units to increase in size as the slope progresses, producing a combination of rectangular and trapezoidal pieces. The size and shape of the glazing units are extremely inconsistent, making the system very expensive and difficult to coordinate.

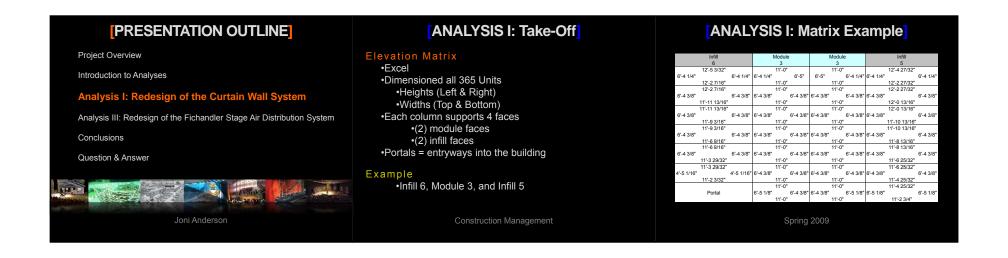
### Objective

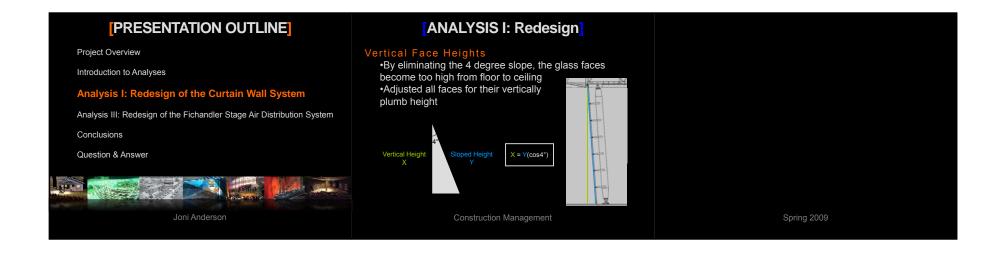
Slightly adjust the architecture of the curtain wall by eliminating the 4 degree slope. The façade will then be vertically plumb along the serpentine path, and more uniform glazing unit sizes can be used along each face.

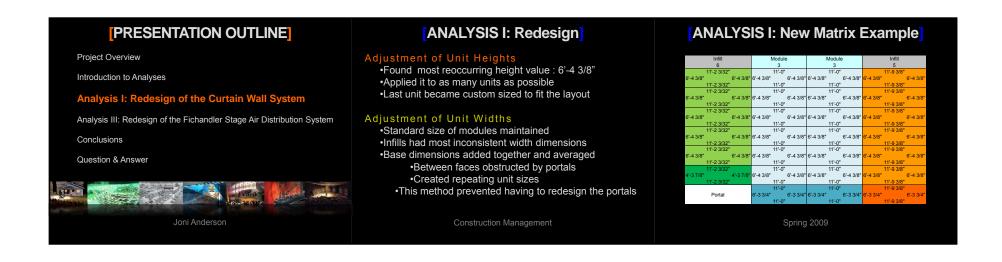






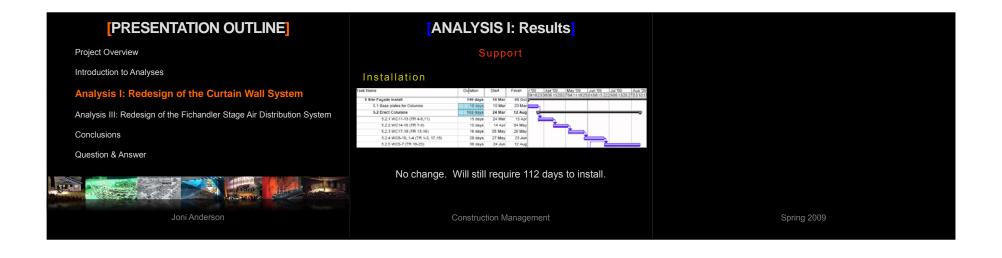




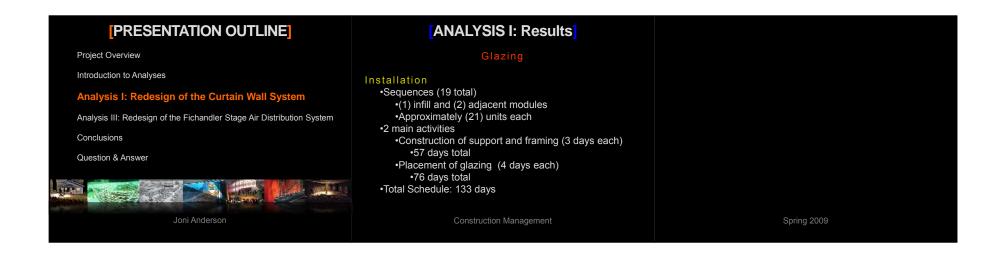








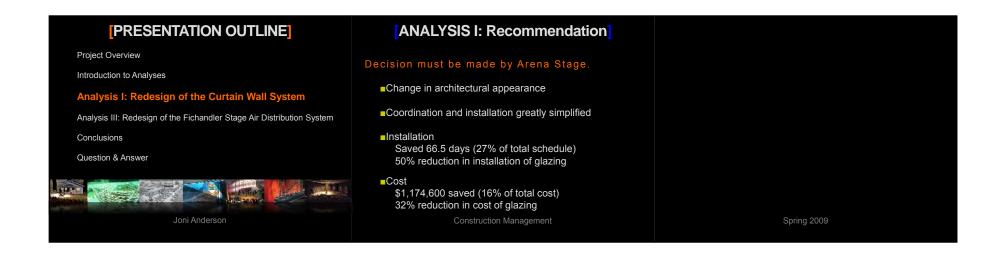




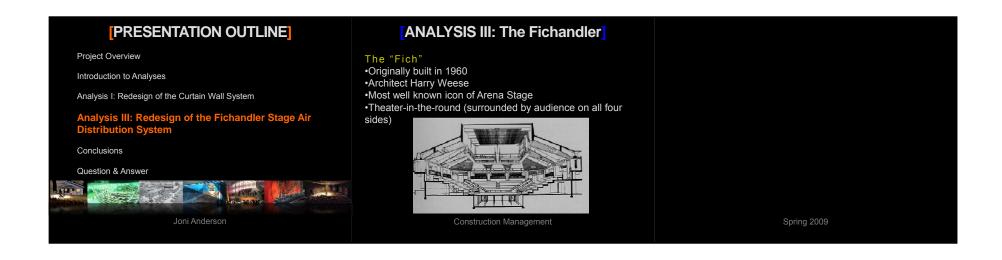


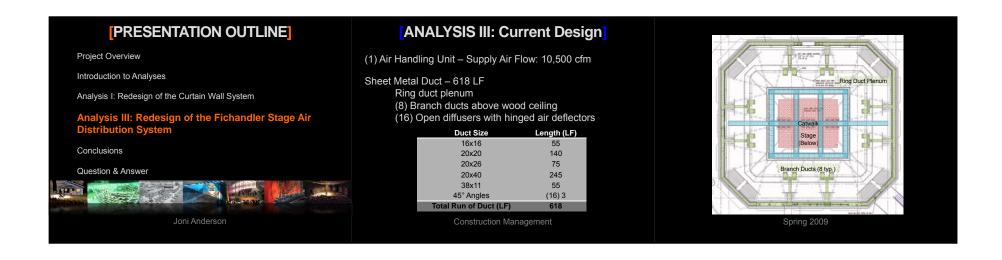


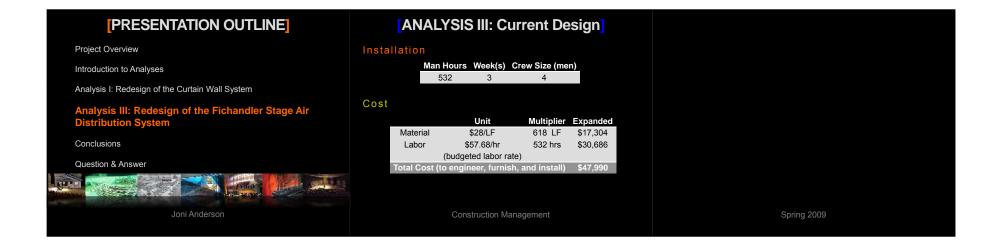


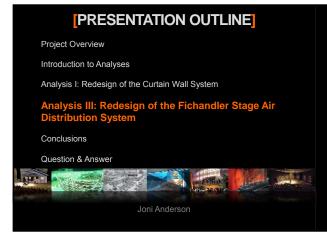












# [ANALYSIS III: Discussion]

### Problem

The ring duct plenum and the branch ducts are difficult to install due to the limited amount of space in the Fichandler. This design also requires a lot of sheet metal, which is expensive and, when supplying air at a high-throw, has the potential to be noisy.

## Objective

To redesign the current mechanical system of the Fichandler stage using fabric duct suspended beneath the catwalk. This will provide closer air distribution, ease installation, reduce installation time, and reduce the overall cost of the system.

Construction Management

