New Jersey Center for Science, Technology, and Mathematics Education



Schematic Presentation

John P. Mulhern November 21, 2008

Building Information



Uses



http://www.aviationtechcenter.com/images2/Co mputer_lab.jpg



http://www.engin.umich.edu/caen/campcaen/ph otos/cave_princecar.jpg



http://www.allegany.edu/bedford/Images/BCCFac CWsmall.jpg



http://constructlab.com/images/College%20University%20(23)%20cropped%20small.JPG

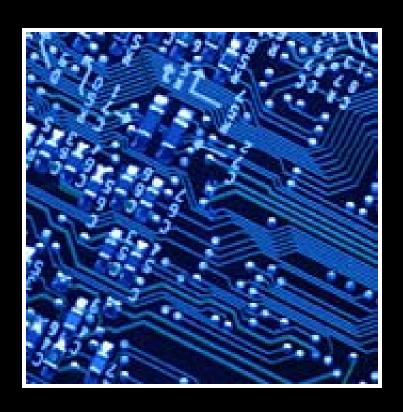


http://paulstamatiou.com/wp-content/uploads/ 2007/10/mizzou_macs.jpg



http://photos.igougo.com/images/p9423-College_Station-My_22nd_Birthday_at_Garcias.jpg

Design Theme



Overall Design Goals

- ¤ Guide visitors through the irregular shape building with light
- ¤ Provide a modern appearance
- Present this building as the "pearl" of the campus as Kean University intended
- Provide sufficient light levels for students

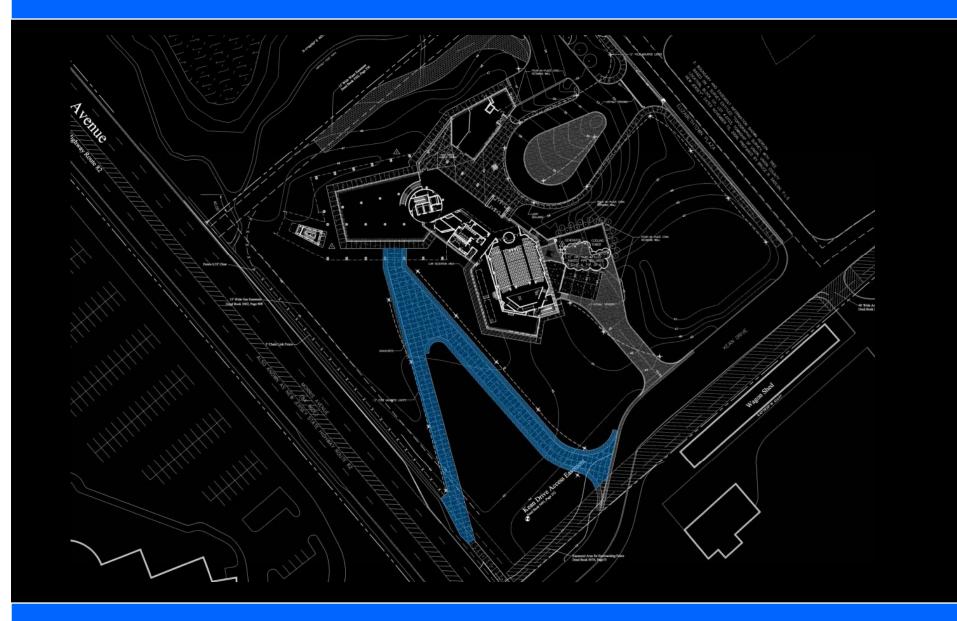
Redesign Space Choices

Outdoor Space in front of south façade

Classroom

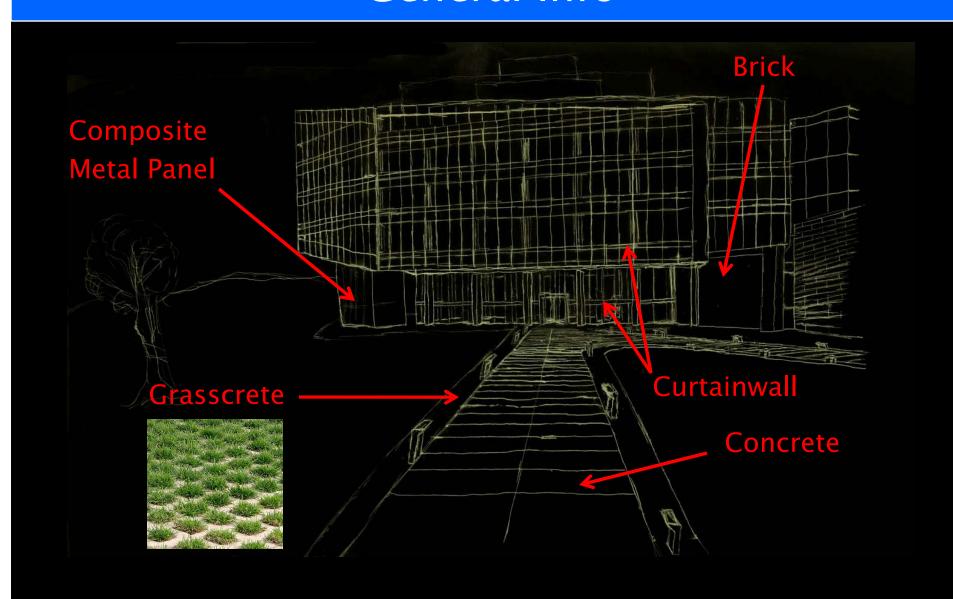
Lower Lobby

Auditorium



Outdoor Space

Classroom Lower Lobby Auditorium

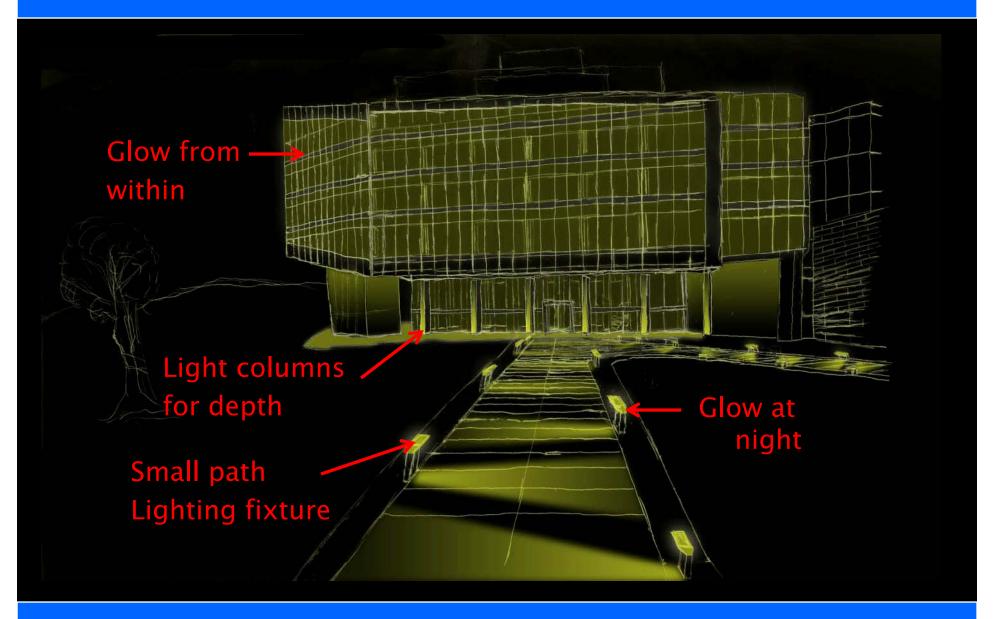


Outdoor Space

Classroom

Design Goals

- ¤ Provide a modern appearance
- Present this building as the "pearl" of the campus as Kean University intended
- **x** Bring out depth of portico for dramatic effect
- ¤ Fixtures glowing at night

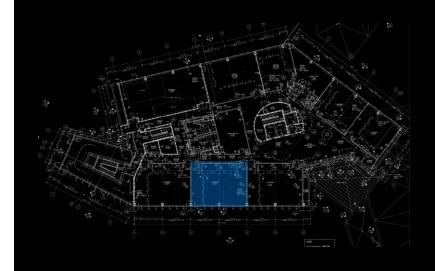


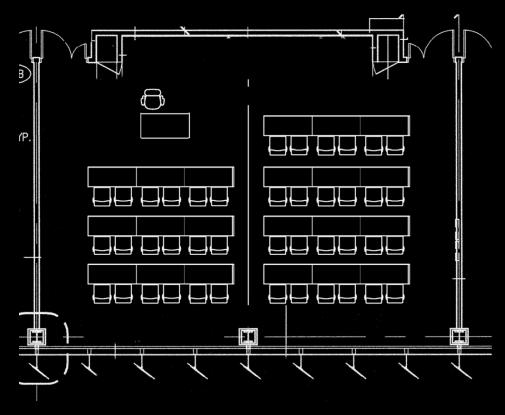
Outdoor Space

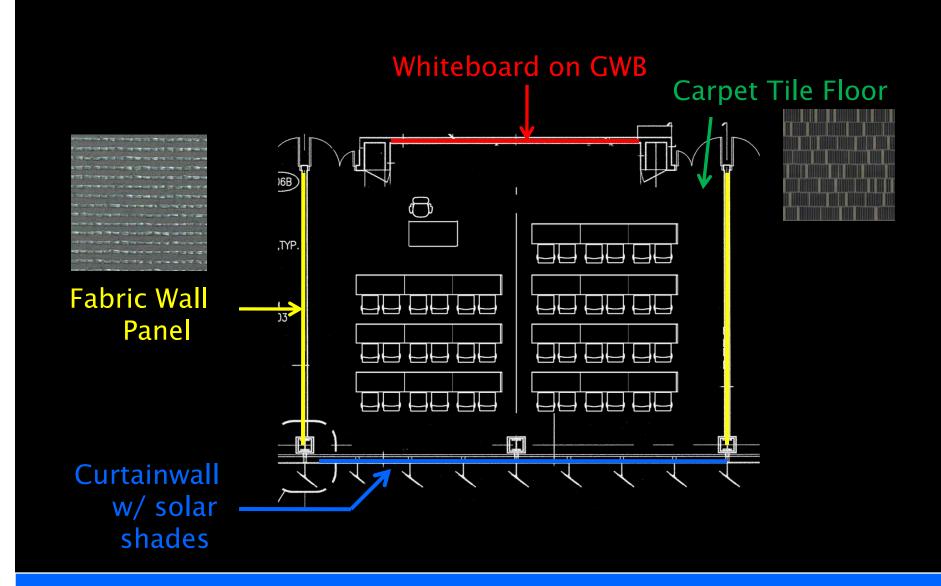
Classroom

Lower Lobby

Auditorium







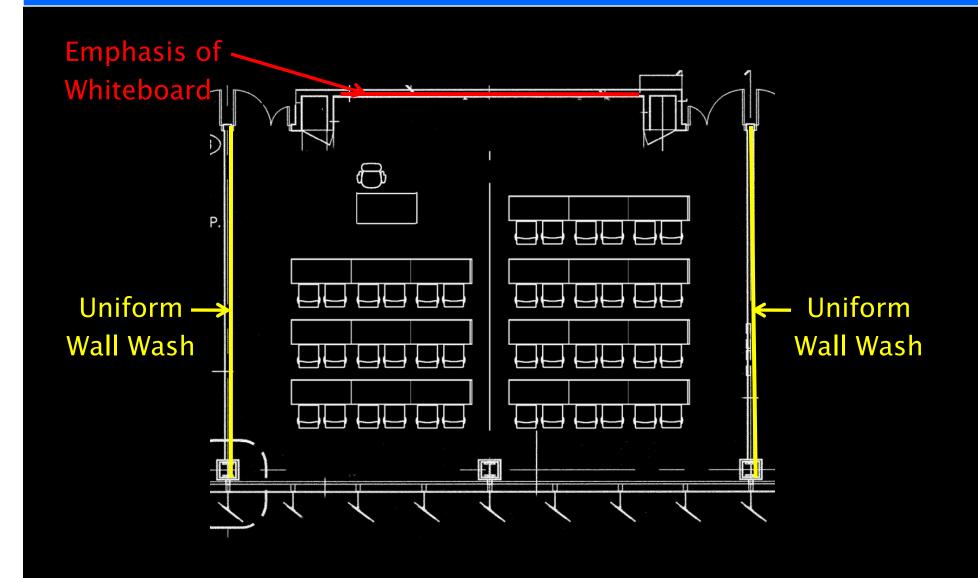
Outdoor Space

Classroom

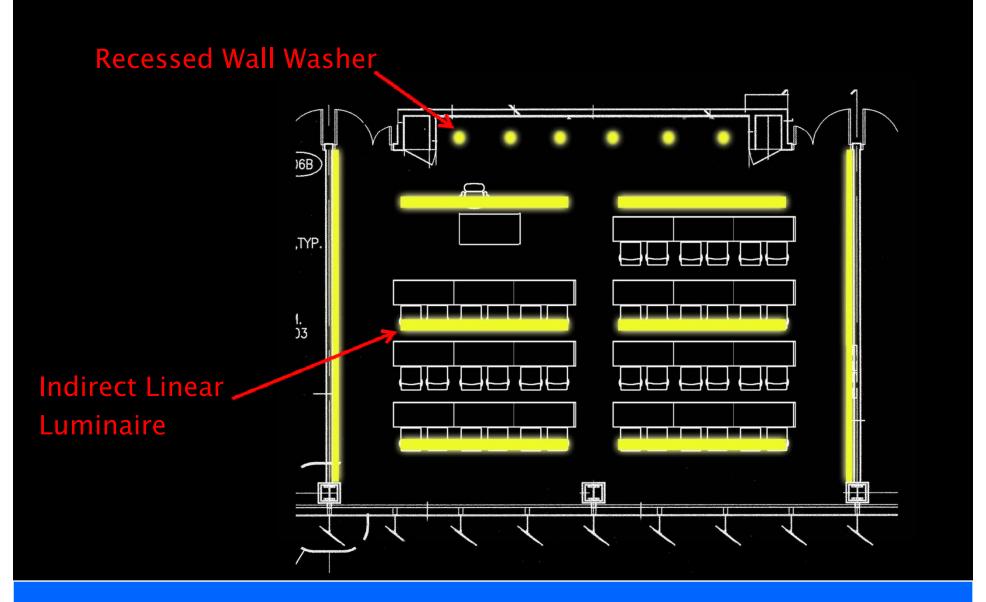
Design Goals

- x Achieve impression of visual clarity
- **x** Emphasis of whiteboard
- **x** Adequate illuminance for learning
- **x** Minimize glare for students

Design Concepts



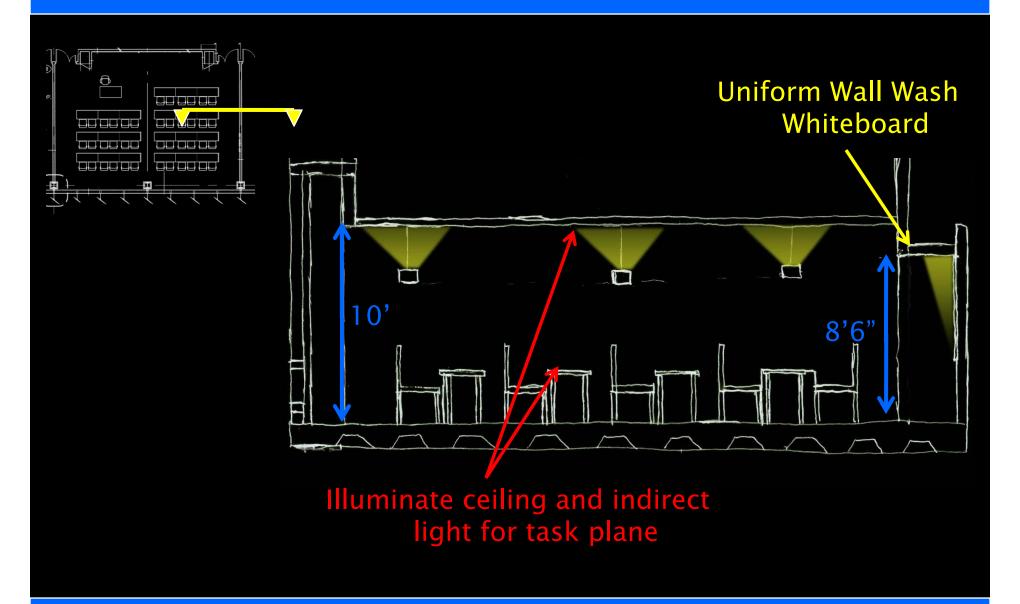
Design Concepts



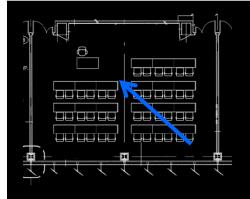
Outdoor Space

Classroom

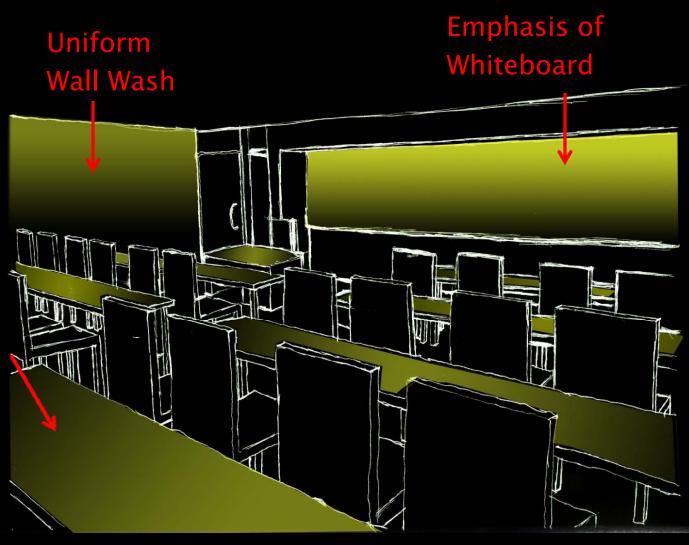
Section



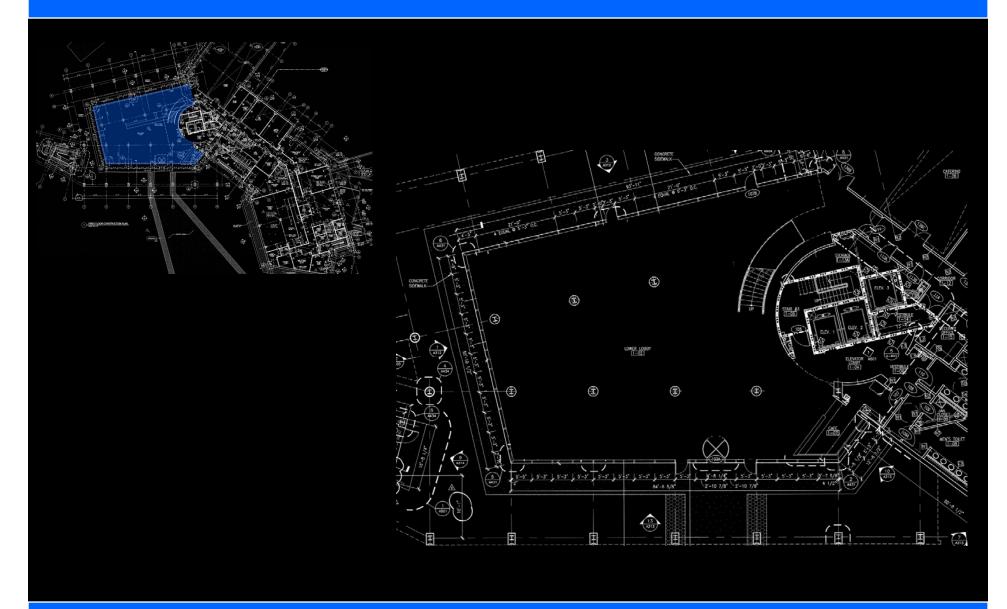
Design Concepts



Uniform
Task
Distribution

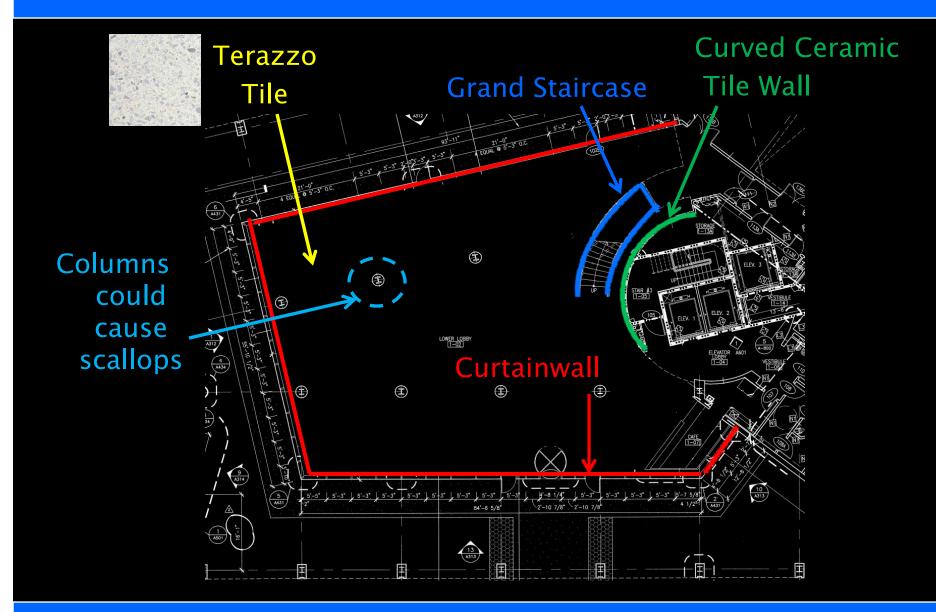


General Information



Outdoor Space Classroom Lower Lobby Auditorium

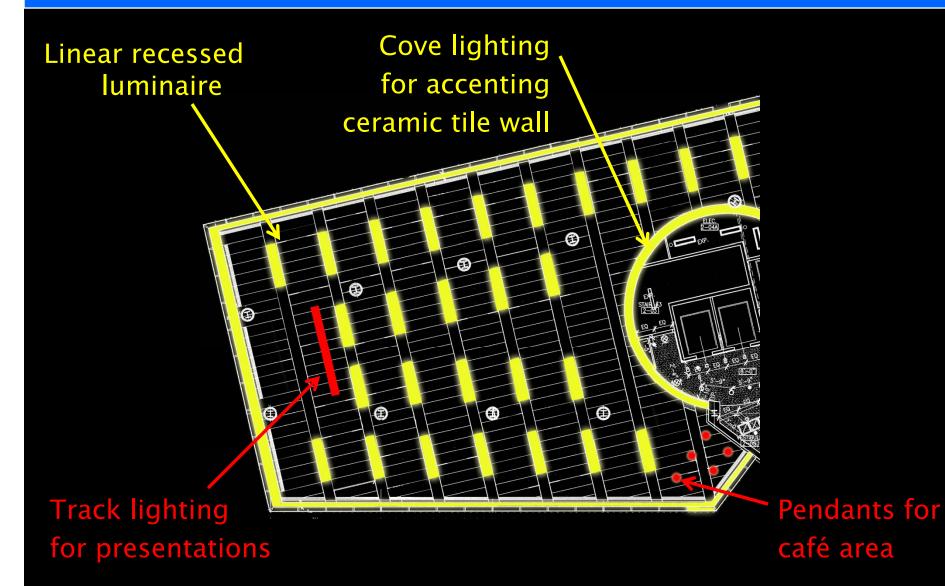
General Information



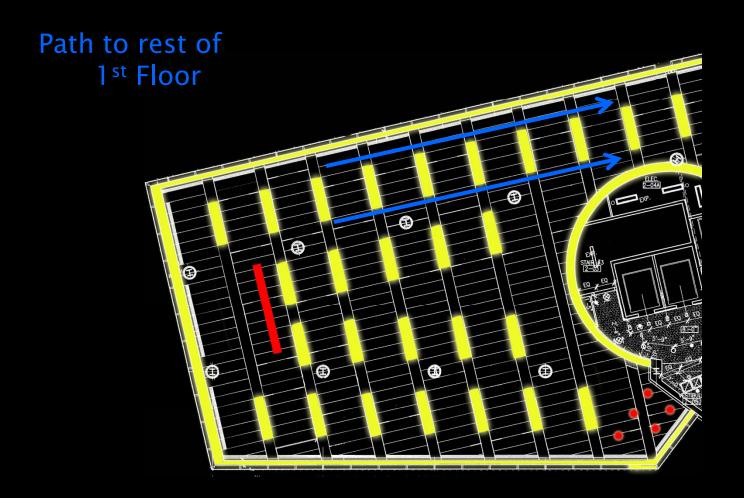
Outdoor Space Classroom Lower Lobby Auditorium

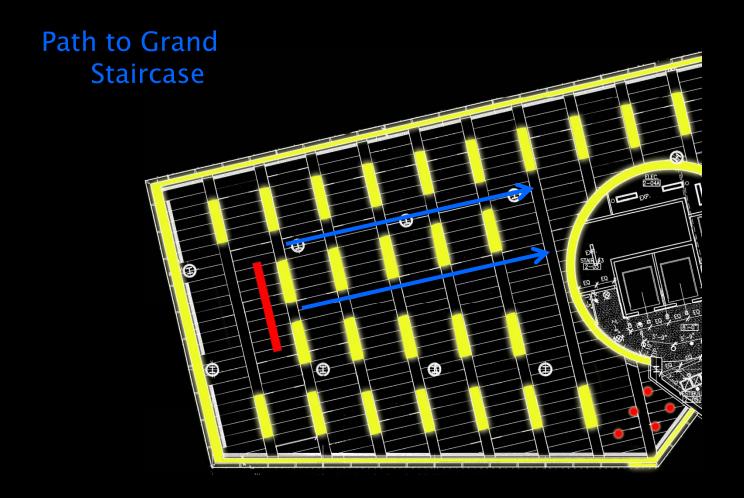
Design Goals

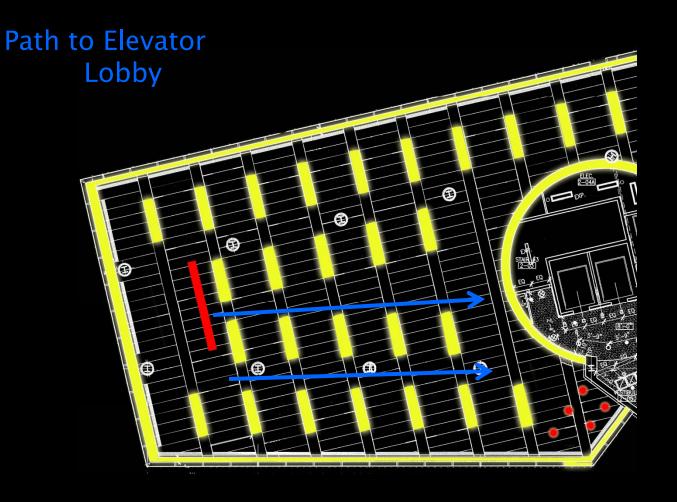
- x Achieve impression of public atmosphere
- x Translate grandeur of building into this important space
- x Light to guide to different spaces
- ¤ Cool Tones for daytime and warm tones for nighttime if possible
- ¤ Accent café area and curved ceramic tile wall
- Daylight integration

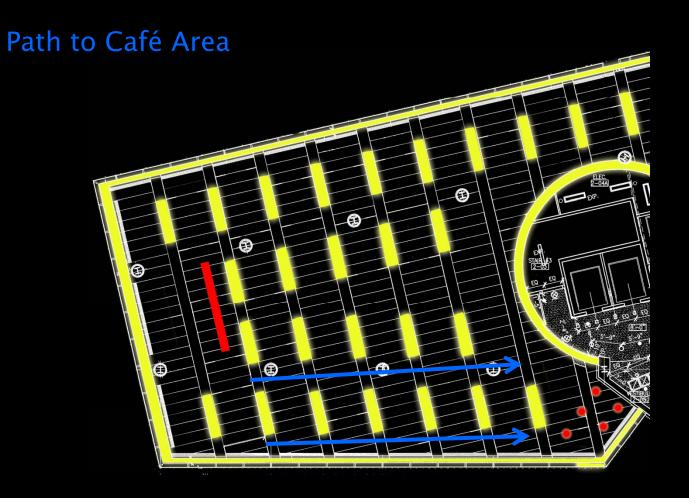


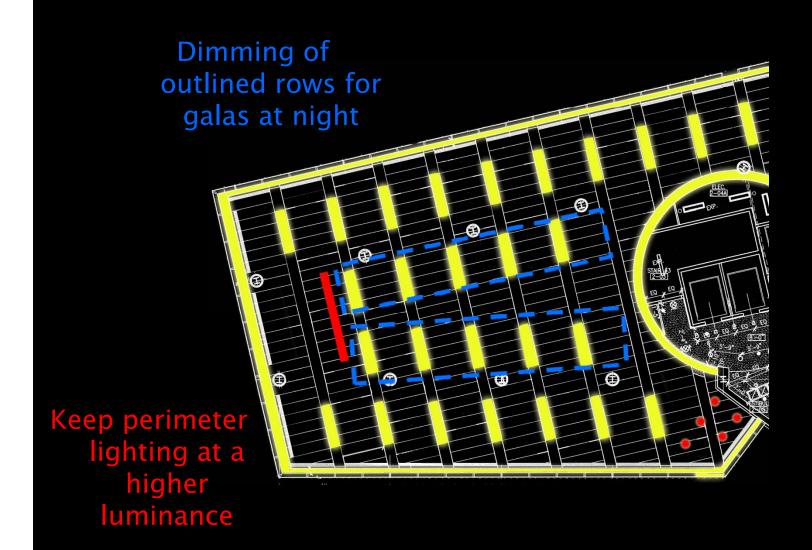
Outdoor Space Classroom Lower Lobby Auditorium

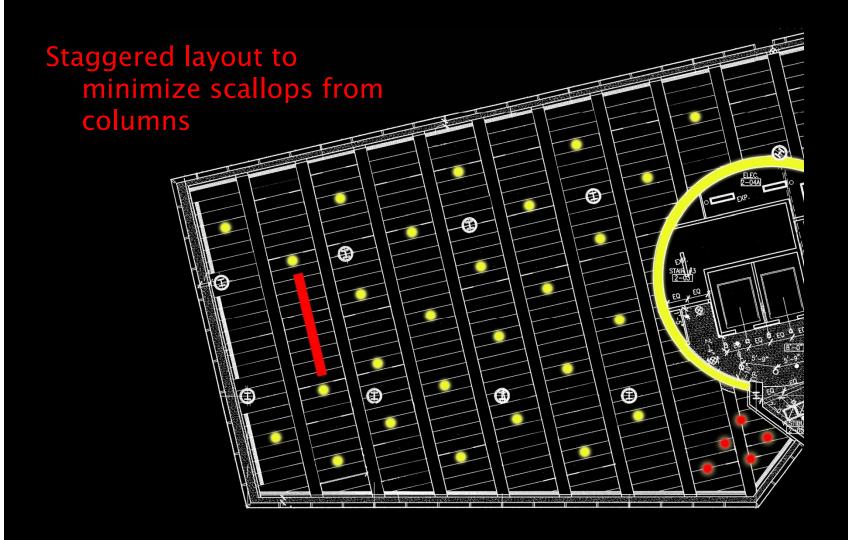








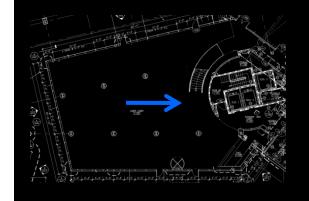


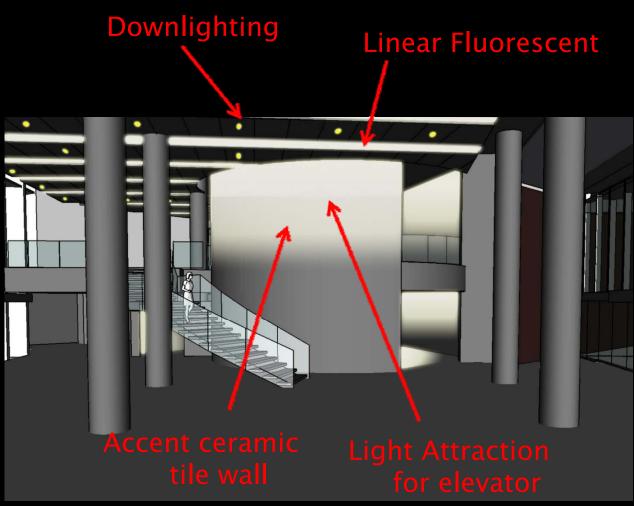




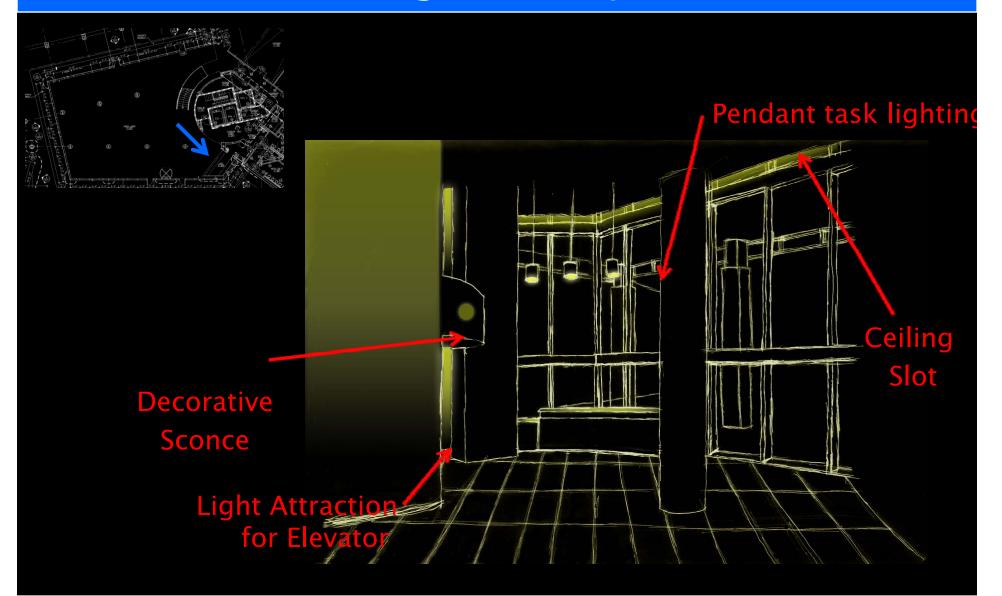
Outdoor Space Classroom Lower Lobby Auditorium

Design Concepts





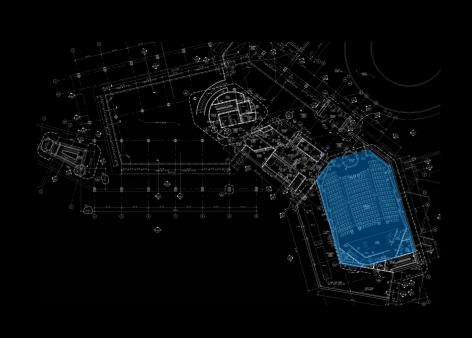
Design Concepts

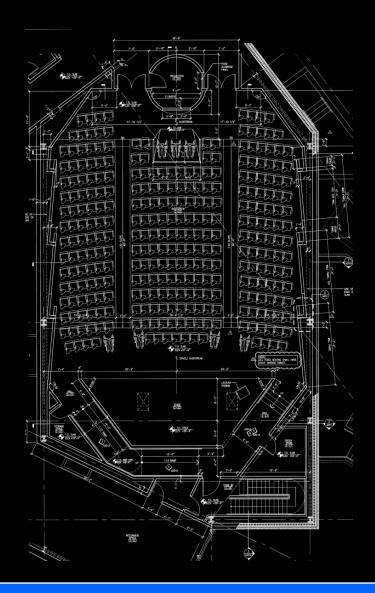


Outdoor Space

Classroom

General Information

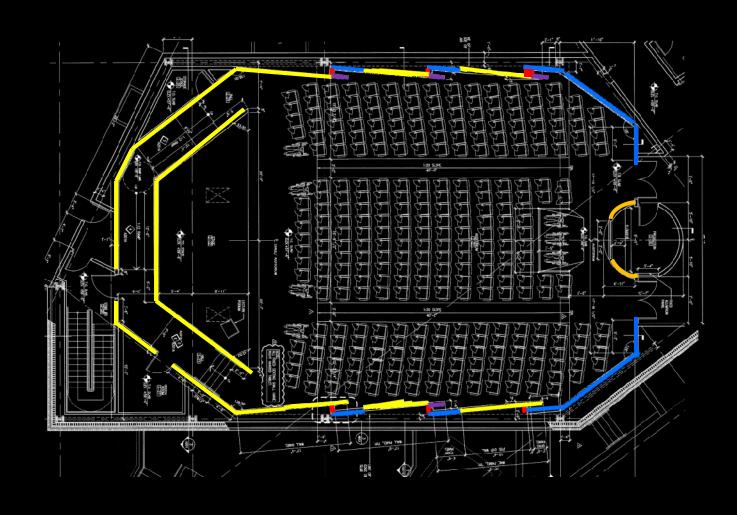




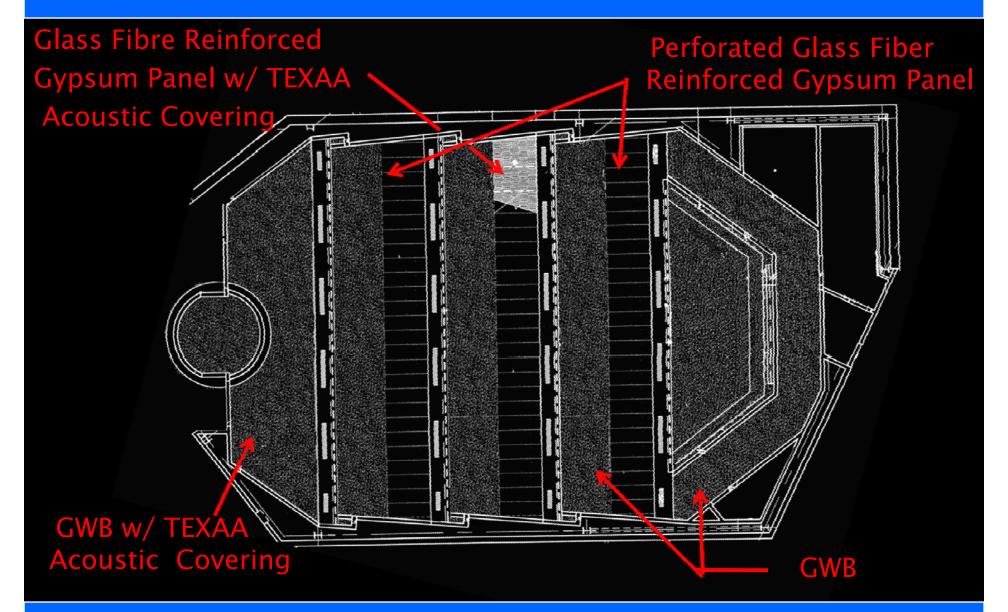
General Info Plan

GWB

Metal Fascia **Acoustic Panel** Perforated GWB Ceramic Tile



General Info RCP



Outdoor Space

Classroom

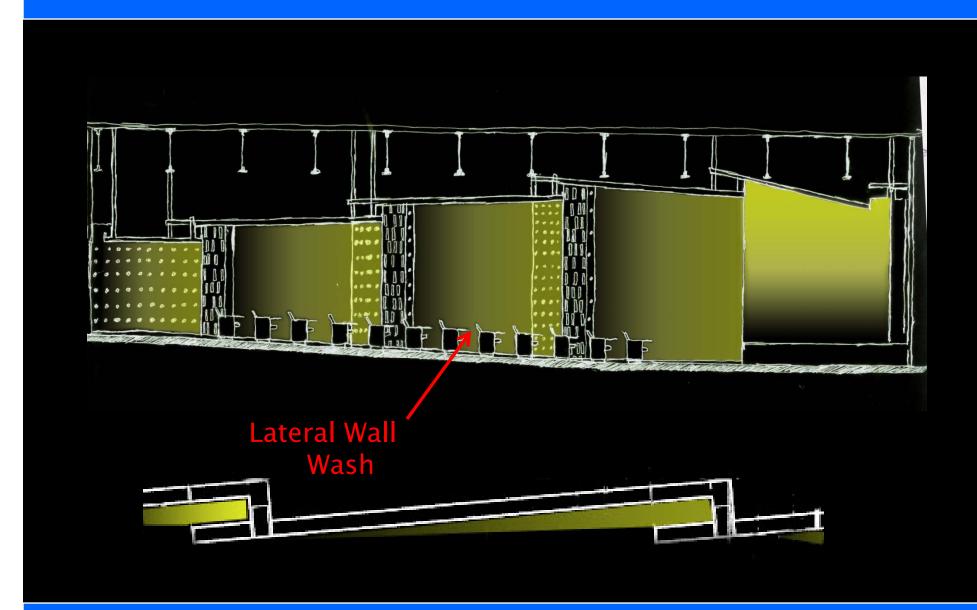
Lower Lobby

Auditorium

Design Goals

- architecture
- ¤ Provide a modern appearance
- Controls for different scenes
- Accent interesting ceiling and staggered walls
- Provide sufficient light levels for students

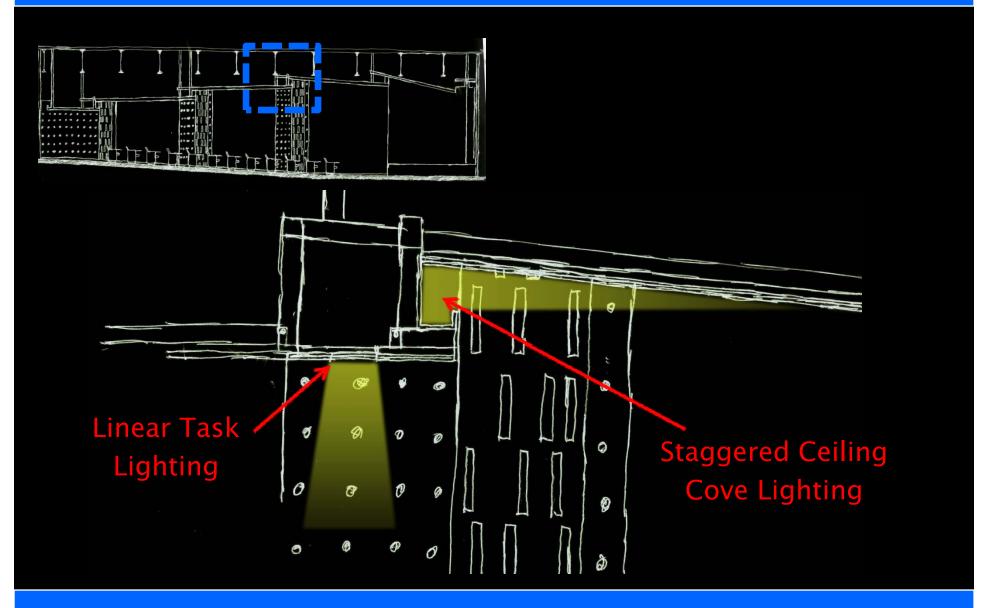
Section



Outdoor Space

Classroom

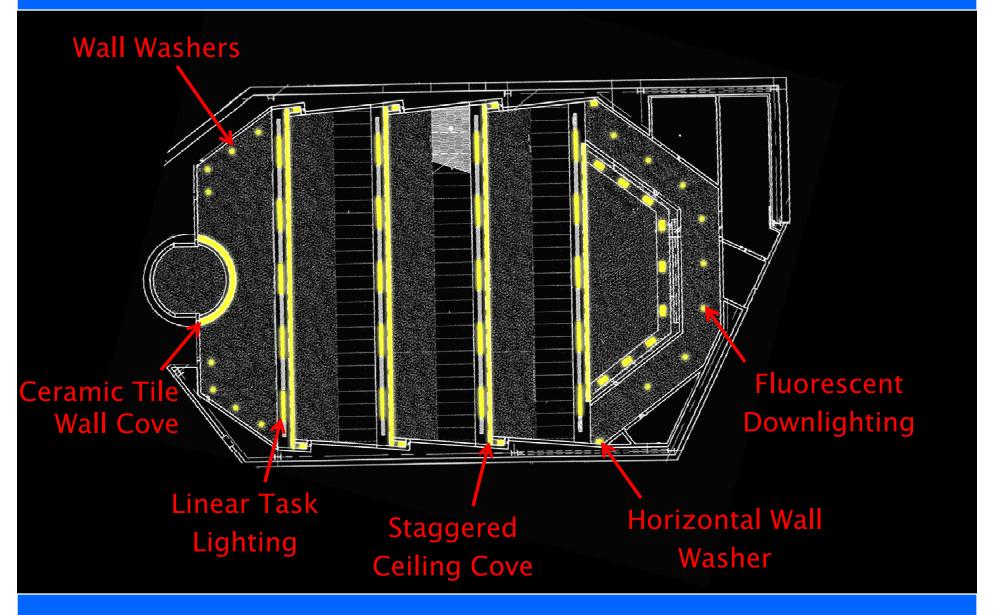
Staggered Ceiling Typical Detail



Outdoor Space

Classroom

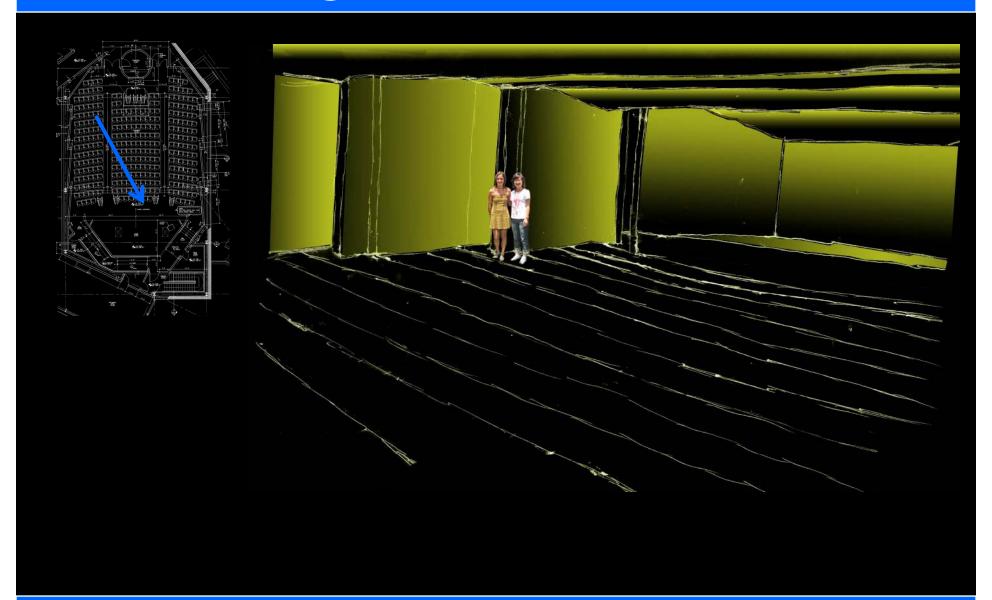
RCP



Outdoor Space

Classroom

Ceiling Graze and Wall Wash



Linear Task Lighting and Wall Wash

