George Washington University School of Business and Public Management

Bradley Hartman

Lighting / Electrical

The Pennsylvannia State University

Advisor: Dr. Martin Moeck



Building Information

- Located in Washington DC on the George Washington University Campus
- Addition to existing Business School
- 170,000 Sq Ft
- 6 floors above grade, 2 floors below
- Educational Building



Mission Statement

"To serve current and future leaders, managers, and professionals in the global community by offering superior learning opportunities in business and public management; engaging in research and other scholarly activities to advance management theory and practice; and providing management and professional expertise to business, government and nonprofit organizations.



Lighting Goals

Create an atmosphere intrusive to learning that also mimic's a standard working environment found in the professional field.

Create a dynamic building that will not only welcome and draw one inside, but also become a symbol of renown for the university.



Inspiration

Innovative

Dynamic

Wall Street

Original

Powerful

hool of Business and Public Management

Established

Enlightened

Competitive

Intrigue

Professional

Modern

Excitement

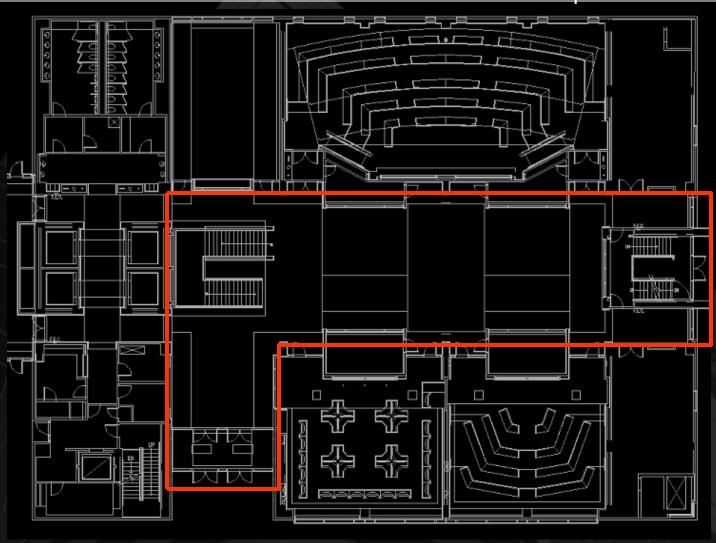
Spaces

Lobby

Capital Market

Auditorium

Exterior



Lobby Characteristics

- Main building entrance
- Open two story area
- Access to primary building areas
- Adaptable area for other uses



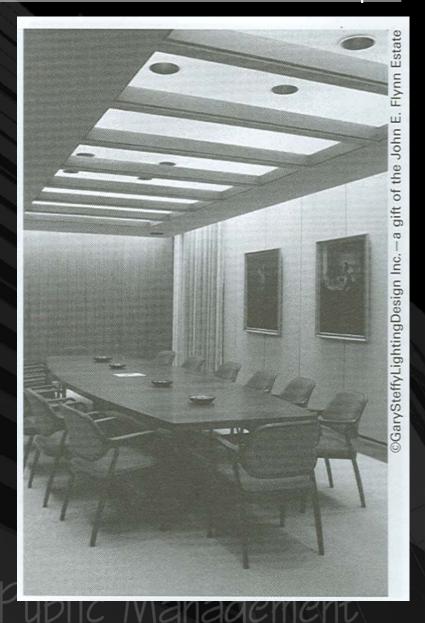
Lobbu

Design Goals

Comfortable Environment

 Create a relaxed and spacious atmosphere, similar to Flynn Model 6

By combining the use of direct and indirect lighting, a clear and comfortable environment can be created. Also, lighting around the edges of the room helps to create a spacious atmosphere.



School of Business and Fub

Lobby

Design Goals

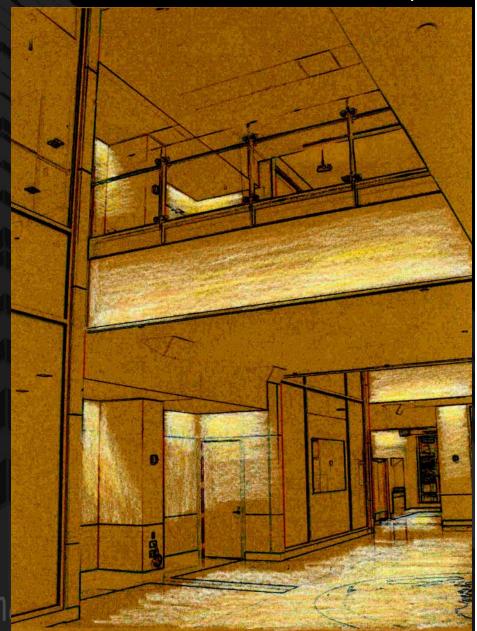
- Lighting Hierarchy
 - Emphasize the most interesting and important parts of the room most prominently
 - 1. Main Entrance
 - 2. Stairwells
 - 3. Classroom Entrance
 - 4. Side Hallways
 - 5. Main Floor



Lobby

Design Goals

- •Lighting and Architectural Integration
 - Minimize number of open fixtures to reduce direct glare



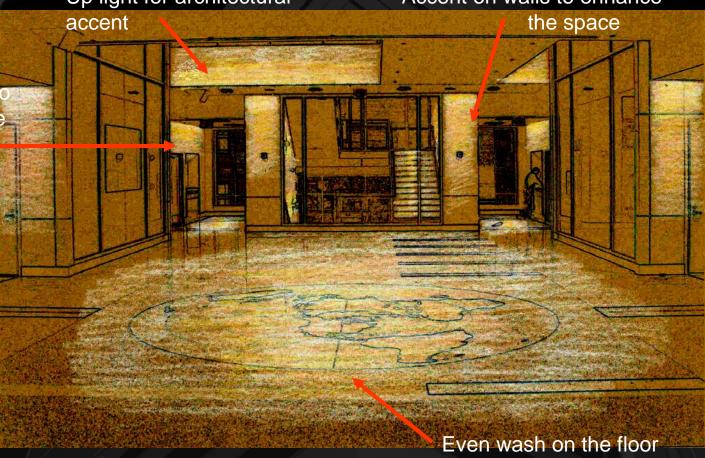
School of Business an

Design Solutions

Up light for architectural

Accent on walls to enhance

Wall wash to draw people into the space



Lobby

Design Solution

• Create a strong entrance to enhance the area.



Warm even wash on walls and ceiling

Diffuse light on floor

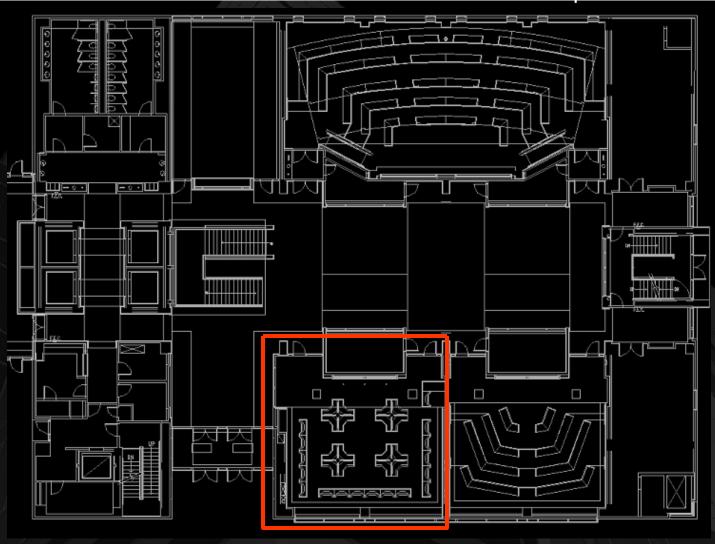
Spaces

Lobby

Capital Market

Auditorium

Exterior



Capital Market Characteristics

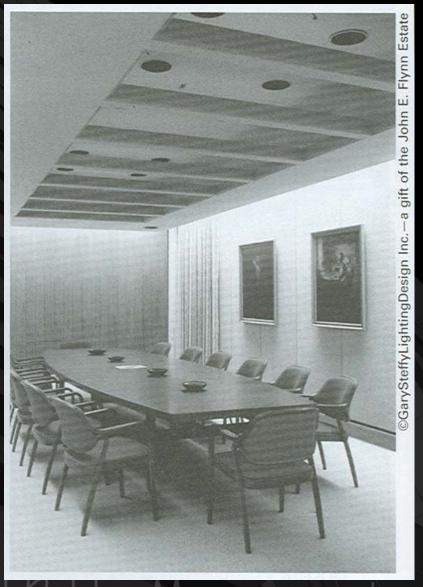
- Adaptive environment for varying uses
- Simulation of a "Wall Street" environment
- Classroom with VDT use
- Day lighting capabilities



Design Goals

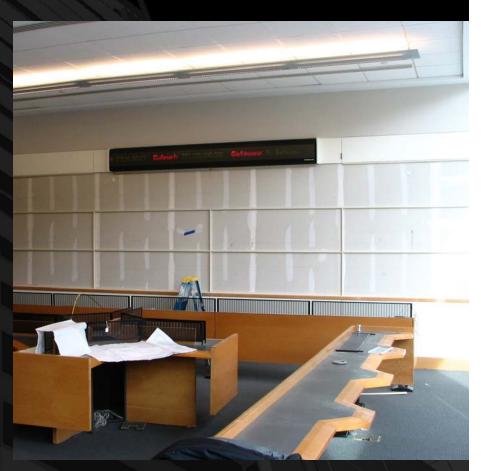
- Comfortable Environment
 - Create a relaxed and spacious atmosphere, similar to Flynn Model 2

Design a lighting system that will first be able to create a spacious and comfortable environment. Then adapt the system so that it will be able to accommodate the varying needs of the room.



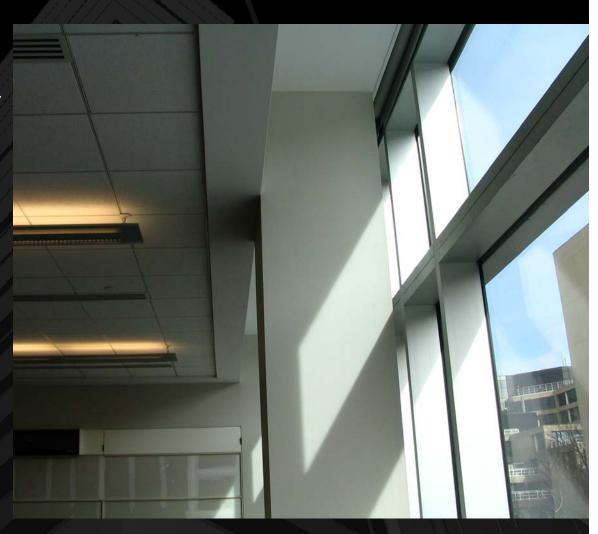
Design Goals

- Variable Environment
 - Able to create different atmospheres that enhances learning environment
- Variable Systems Control
 - Apply a control system that allows for variable settings in different situations



Design Goals

- Day Light Integration
 - Successfully integrate day light in proper setting
- Lighting and Architectural Integration
 - Minimize open fixtures to limit glare

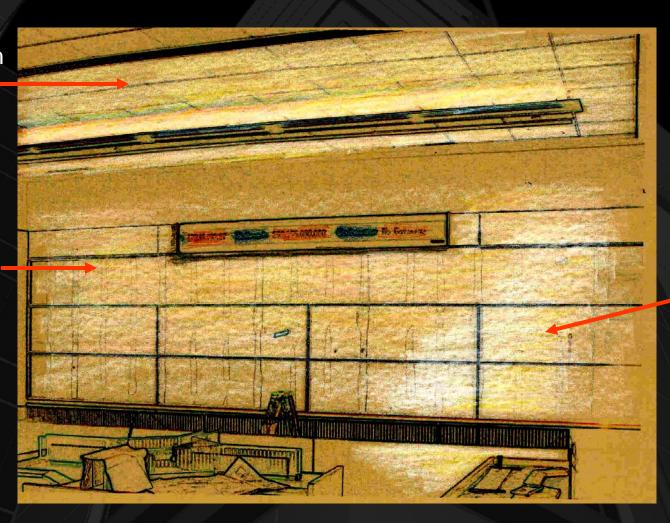




Design Solutions

Diffuse wash on ceiling

Even wash on vertical plane

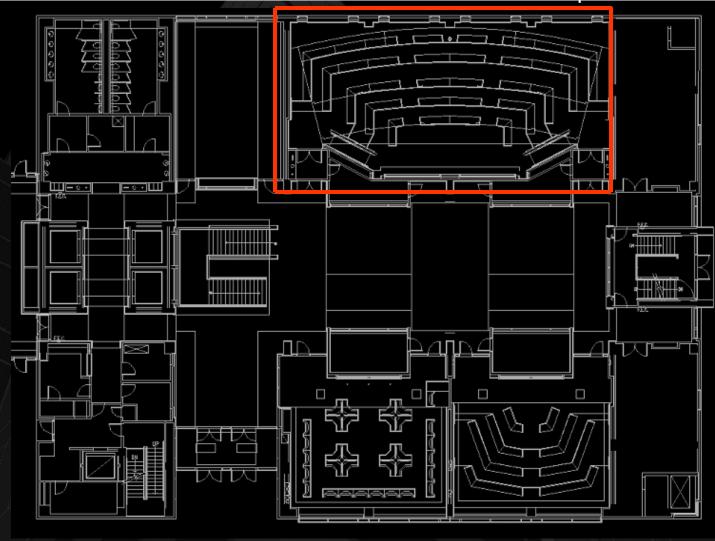


Day Light

Spaces



- Capital Market
- Auditorium
- Exterior



Auditorium Characteristics

- Seating for 100+ people
- Adaptive space for different functions
- Day lighting capabilities
- Adaptive system for varying uses

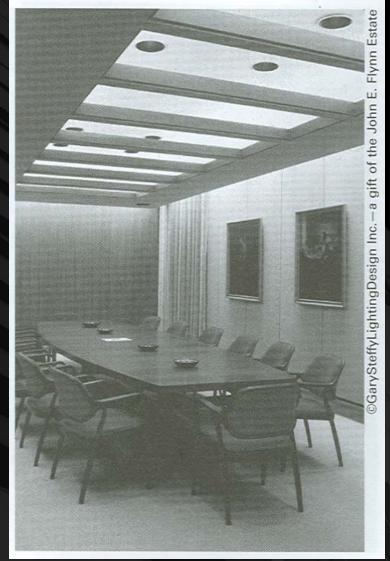


Design Goals

Comfortable Environment

Create a relaxed and spacious atmosphere, similar to Flynn Model 6

Provide an atmosphere that is comfortable to the users within the space. The auditorium should be spacious, yet also provide an environment that is comfortable and useable.



Design Goals

- Variable Systems Control
 - Apply a control system that allows for variable settings in different situations



Design Goals

Day Light Integration

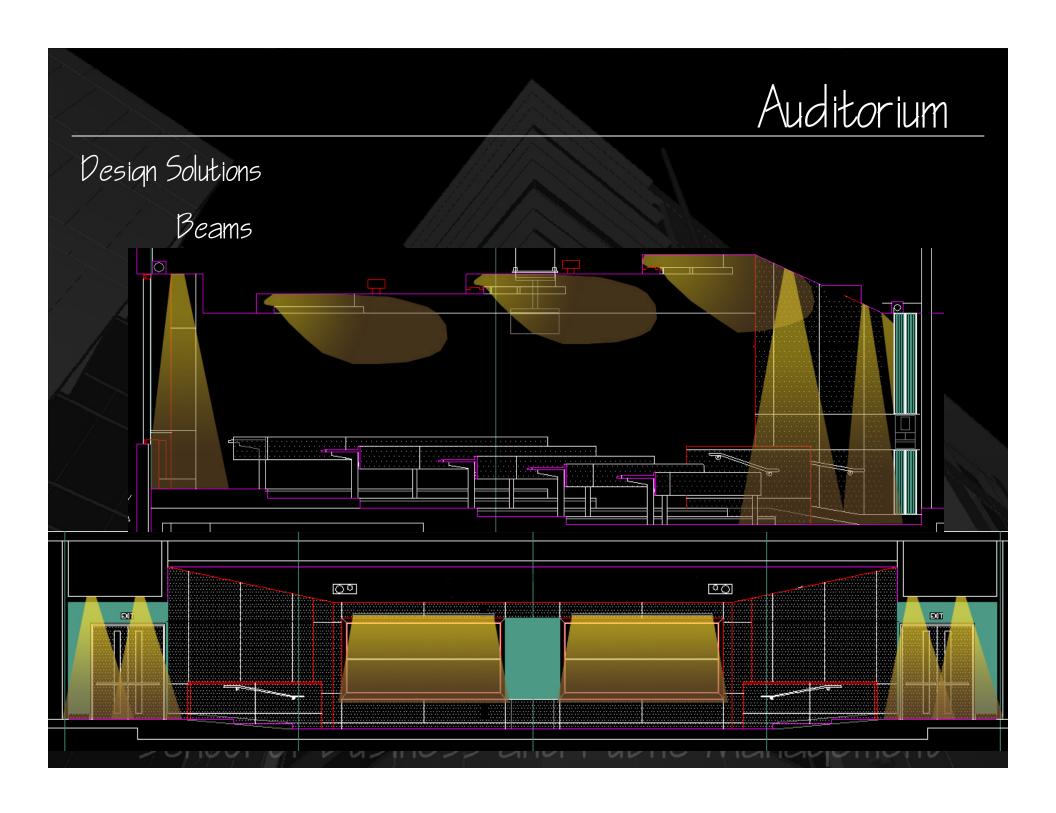
- Successfully integrate day light in proper setting

 Apply a control system that allows for variable settings in different

situations



Auditorium Design Goals •Lighting and Architectural Integration - Minimize open fixtures to limit glare Eliminate excessive down lights



Design Solutions

Diffuse wash on ceiling

Even wash on side wall



Accent lighting on rear wall

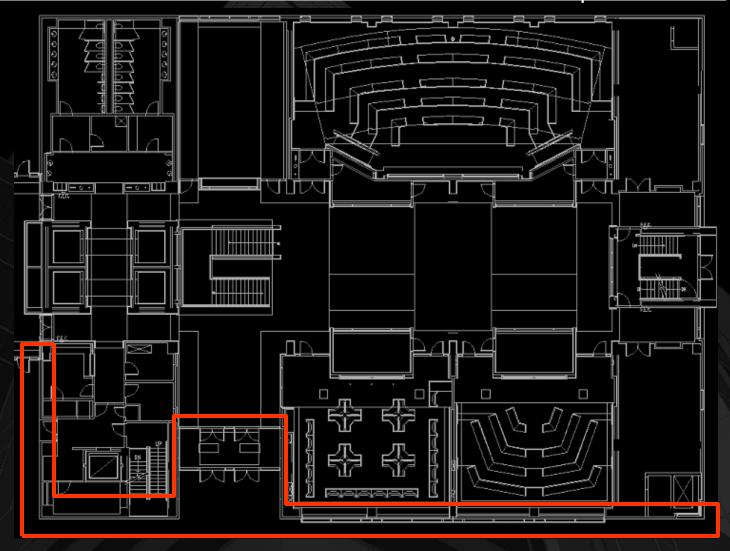
Spaces

Lobby

Capital Market

Auditorium

Exterior



Exterior Facade Characteristics

- 6 stories above grade
- Exterior plaza
- 5 story light tower on corner of building
- Dynamic architectural features



Design Goals

Prominent Entrance

- High light entrance area



Design Goals

- Safety
 - A safe atmosphere that adequately lights any hazards



Design Goals

Dynamic Lighting of Architecture

 Accent prominent architectural features to create a memorable setting

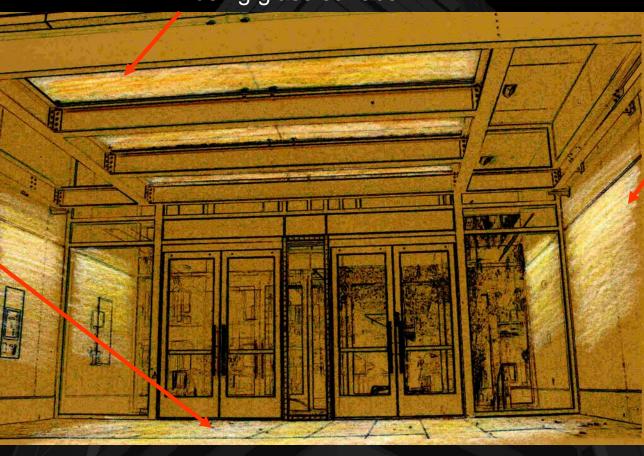
- Careful placement of luminaries
- Minimize lighting affect on surrounding area



Design Solutions

Diffusing glass surface

Highlight floor

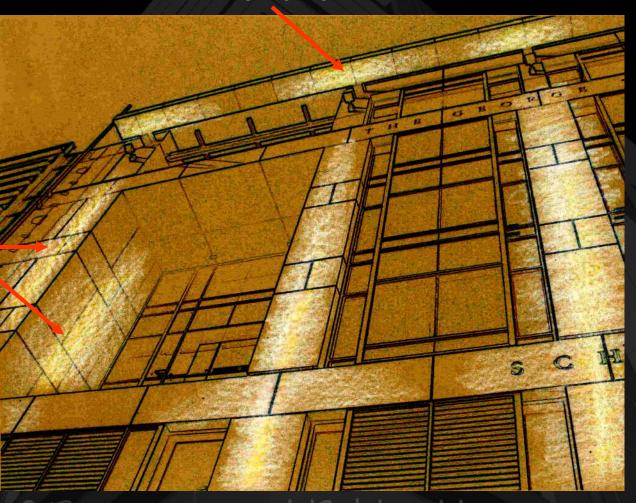


Accented wall

Design Solutions

Diffusing highlights

Architectural accents



Questions? Comments? Concerns? School of Business and Public Management