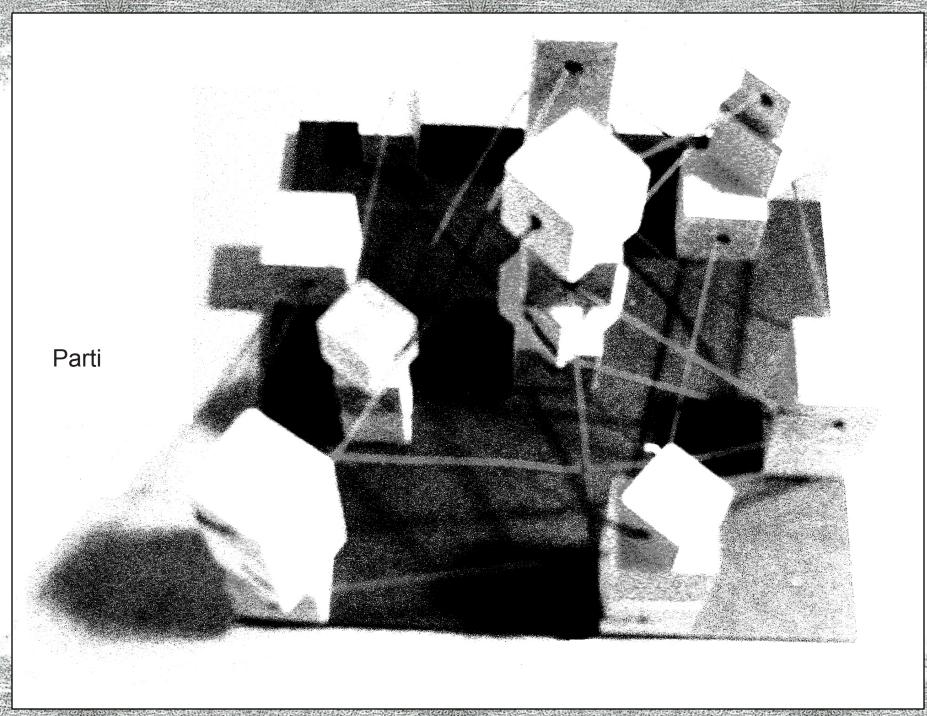
# A Museum of Architectural Elements

# **Design Process**

Shawn Crowley
Professor Joan Vorderbruggen

ARCH 772 Design Thesis, Spring 2010,
Department of Architecture and Landscape Architecture,
North Dakota State University



### A Museum of Architectural Elements



Site Pictures





Week Two Spring 2010





Site Pictures





Week Two

Spring 2010

# A Museum of Architectural Elements





Site Pictures





Week Two Spring 2010



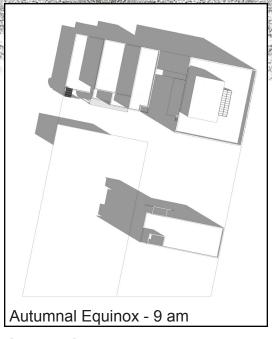


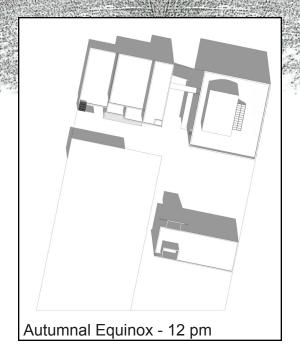
Site Pictures

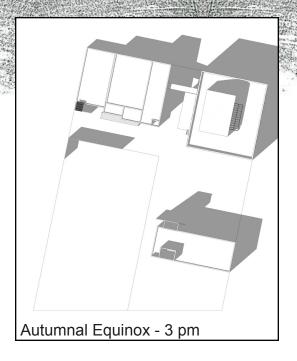




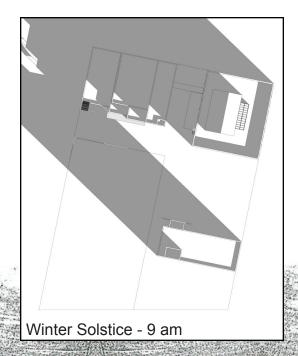
Week Two Spring 2010

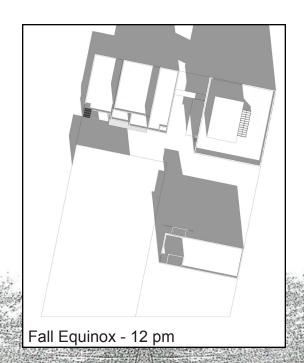


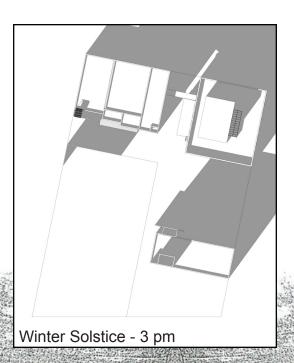


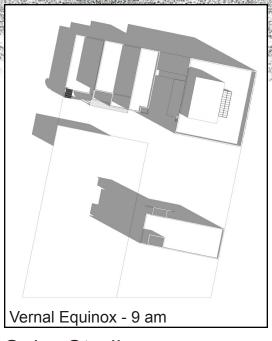


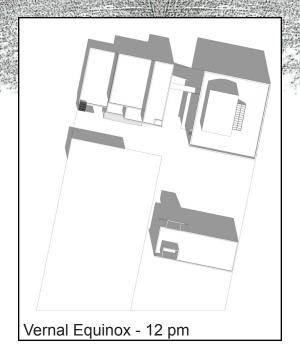
**Solar Studies** 

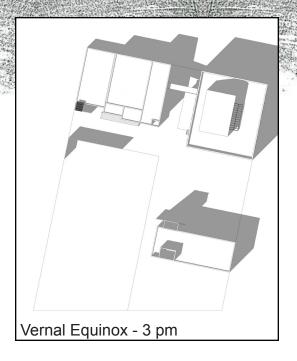




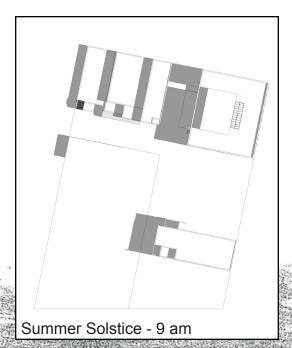


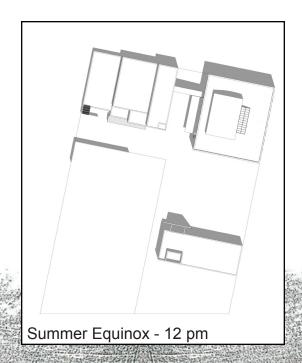


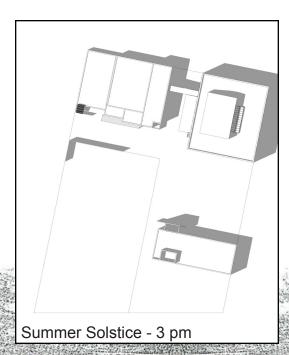


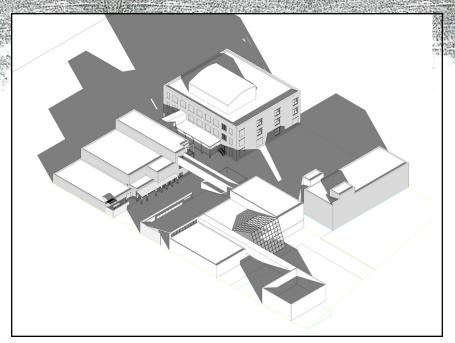


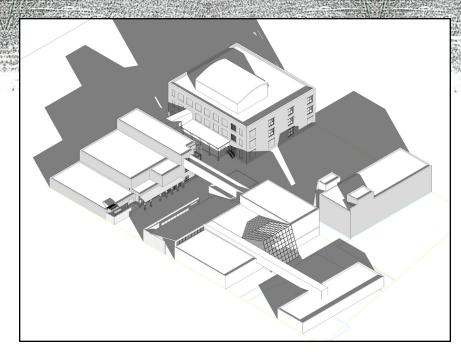
**Solar Studies** 



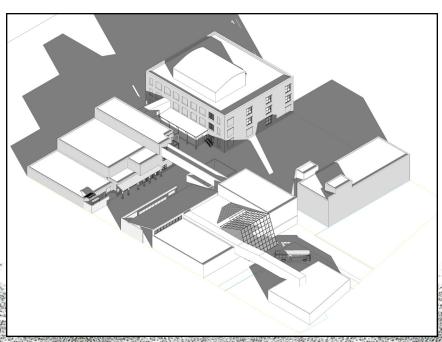


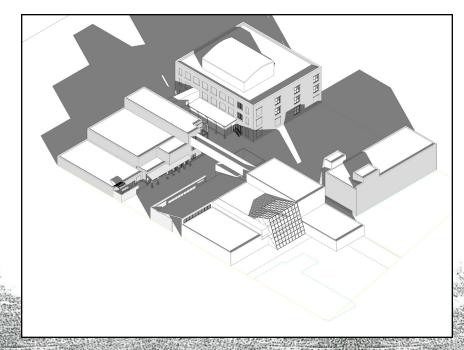






**Early Concepts** 





### A Museum of Architectural Elements



#### **Process Models**

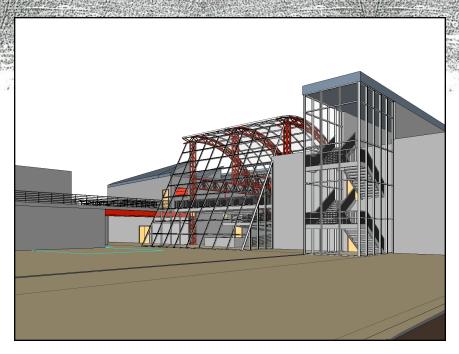




Week Three

Spring 2010





Schematic Design





Week Four

Spring 2010





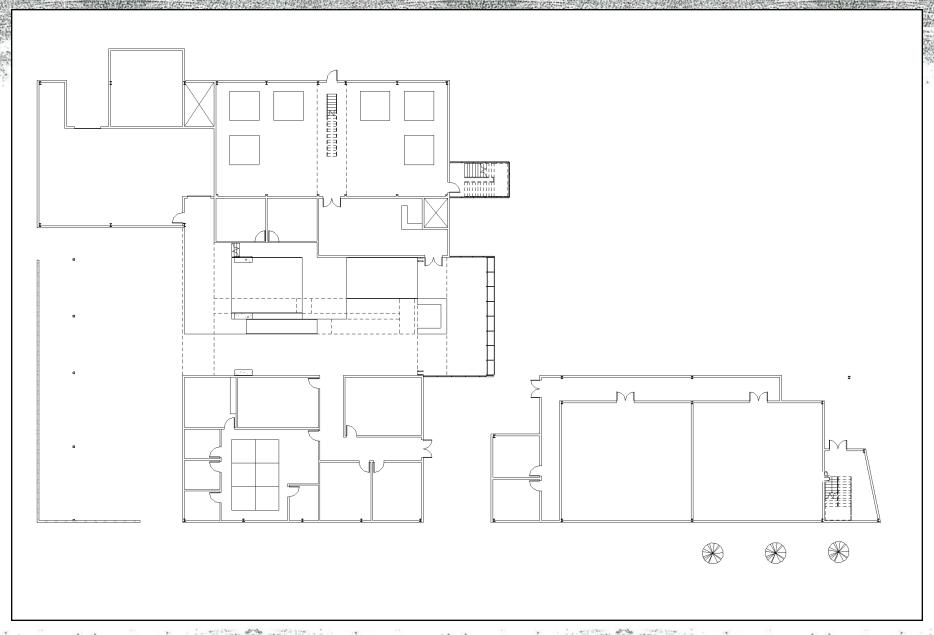
Schematic Design

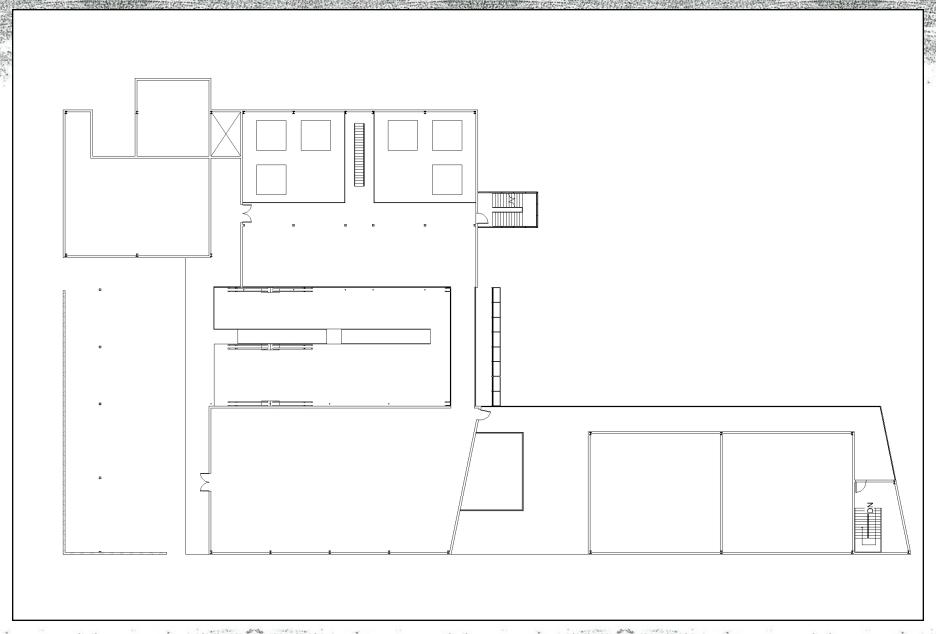


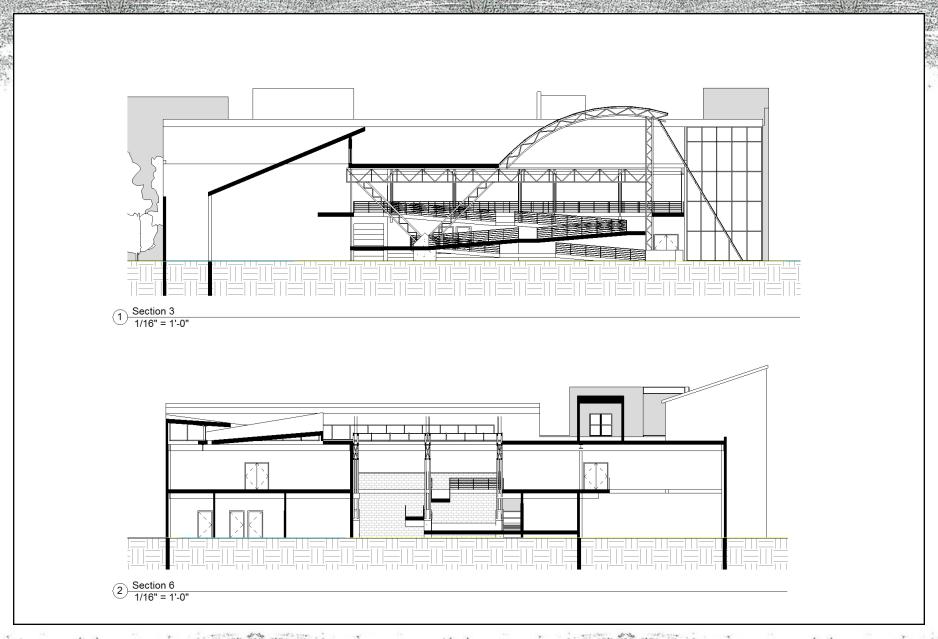


Week Four

Spring 2010







Week Four Spring 2010

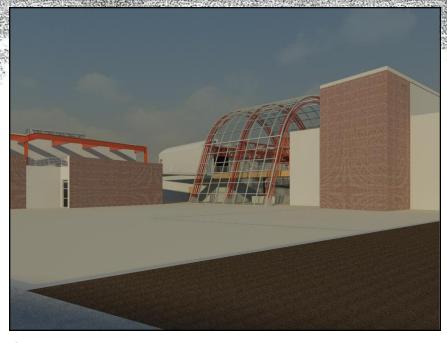


**Schematic Design** 



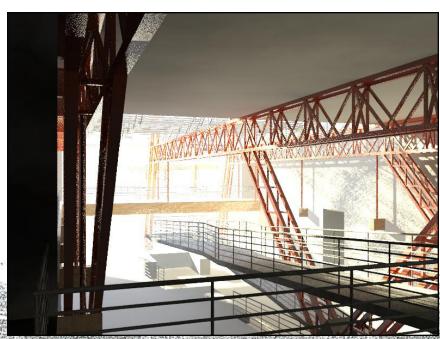


Week Five





Schematic Design





Week Five

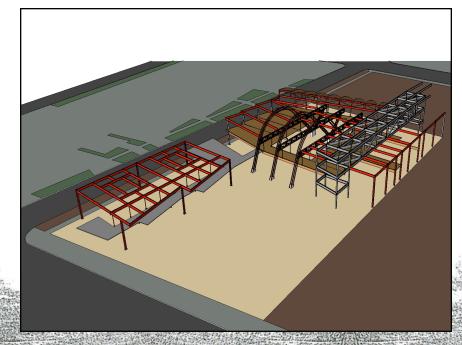
Spring 2010

#### A Museum of Architectural Elements



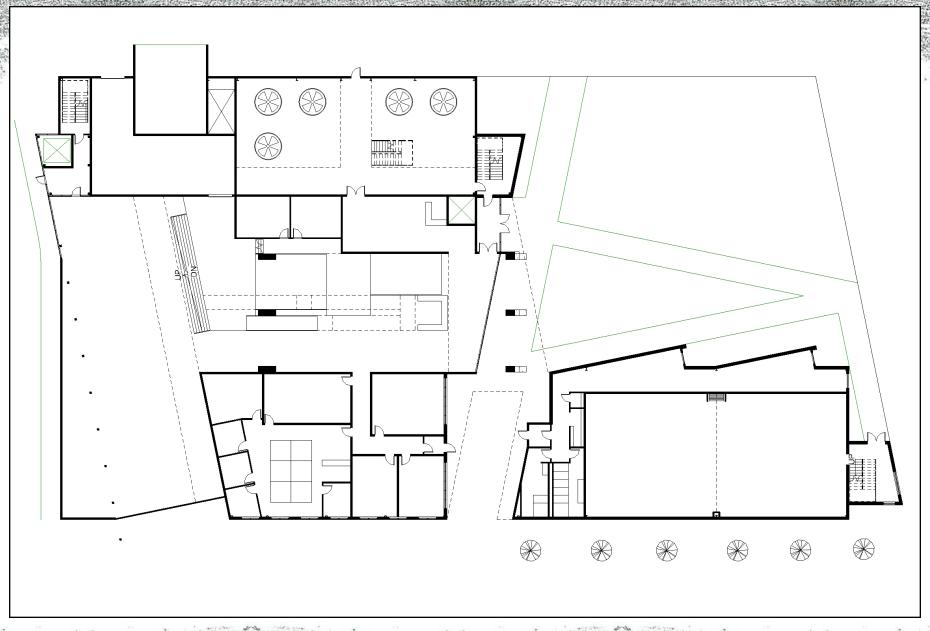
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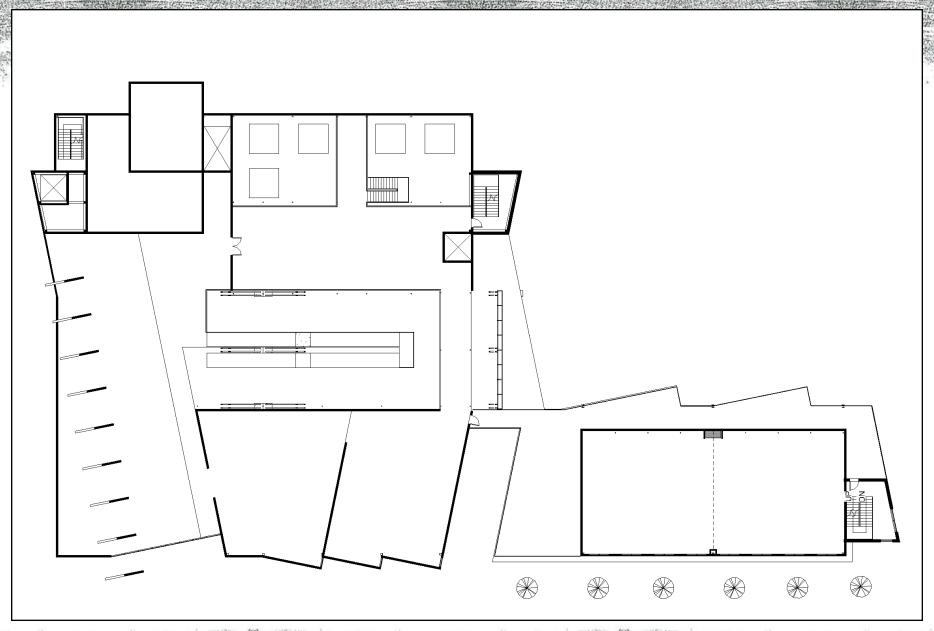


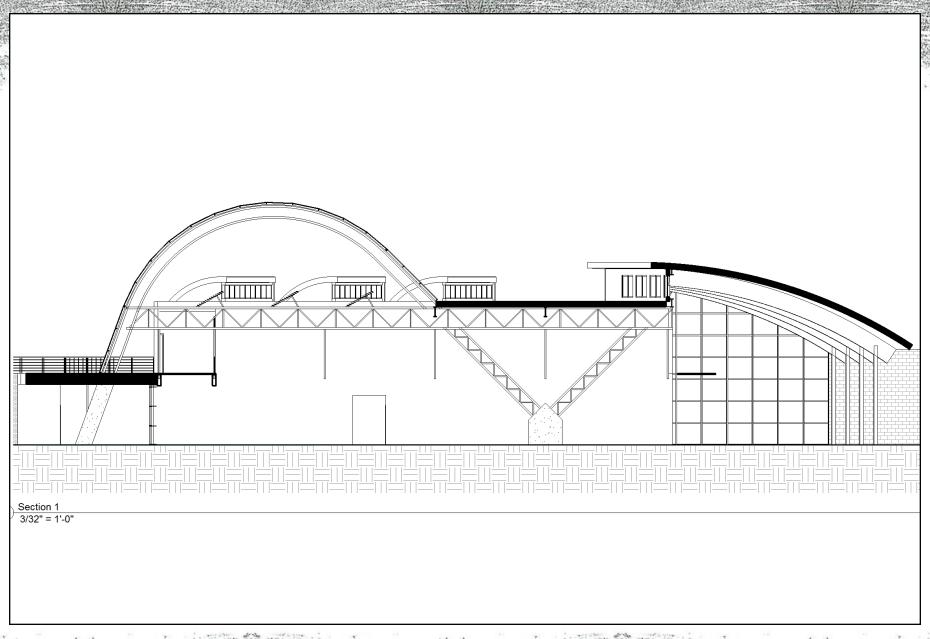


Week Five

Spring 2010









Schematic Design





Week Six

Spring 2010

### A Museum of Architectural Elements





Schematic Design





Week Six

Spring 2010

### A Museum of Architectural Elements



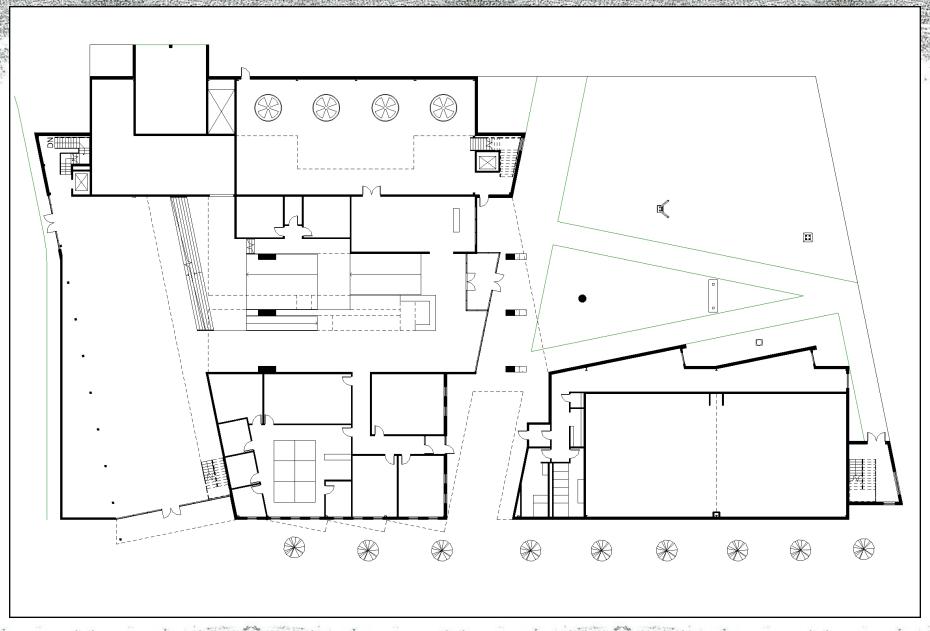
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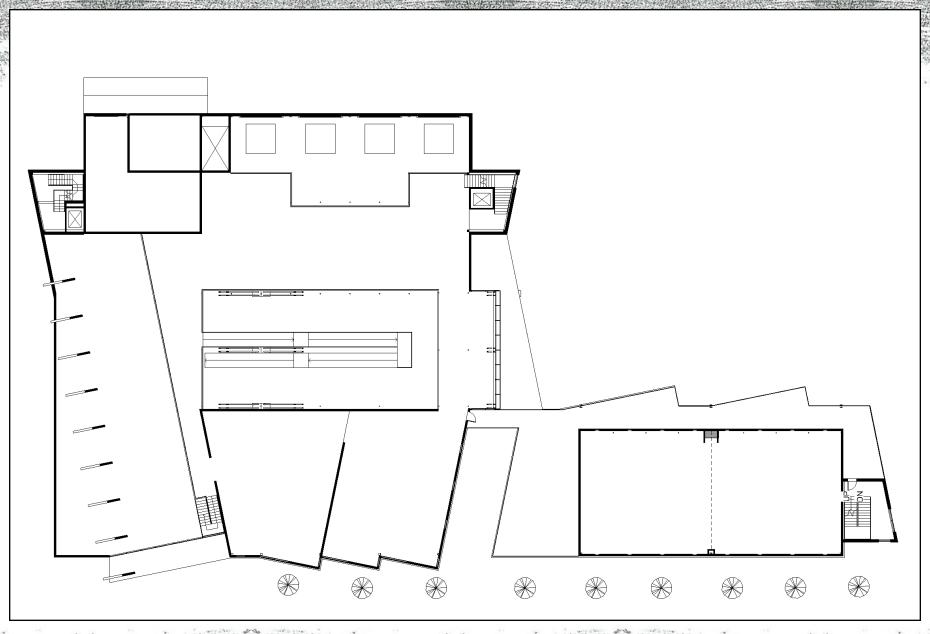


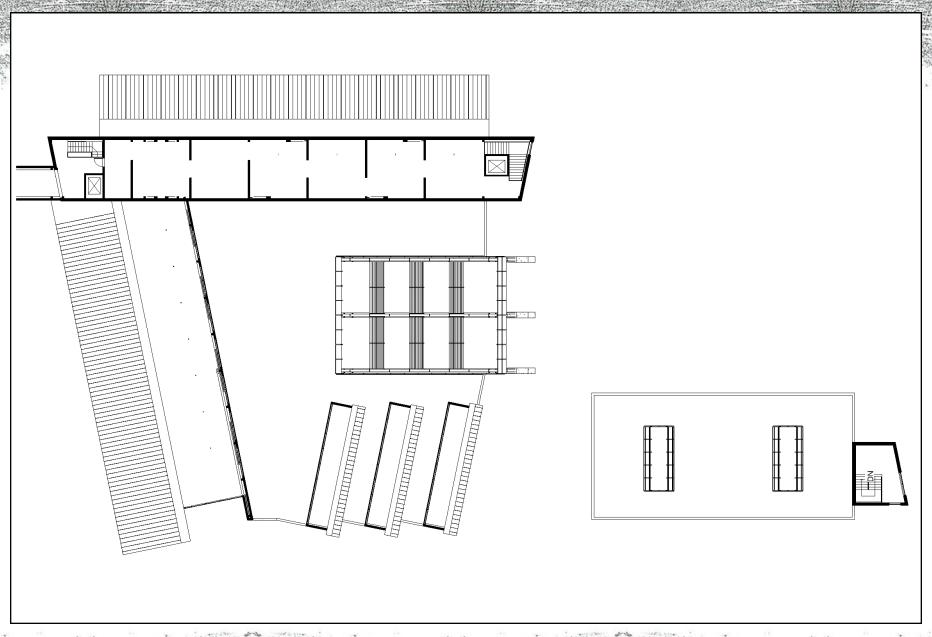


Week Six

Spring 2010











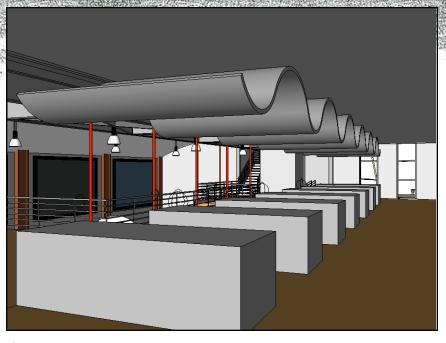
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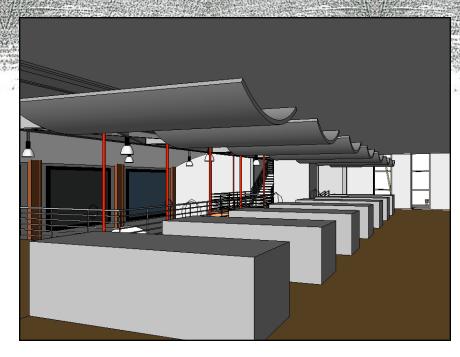




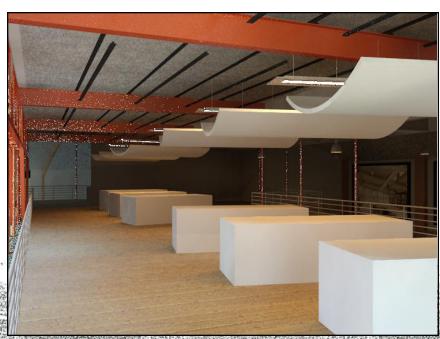
Week Seven

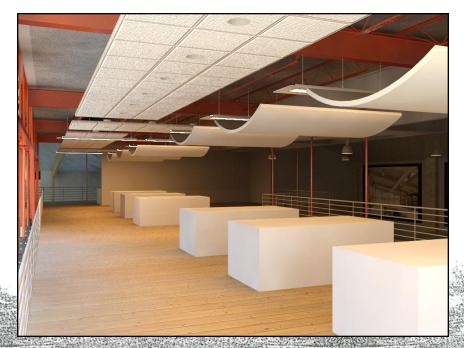
### A Museum of Architectural Elements



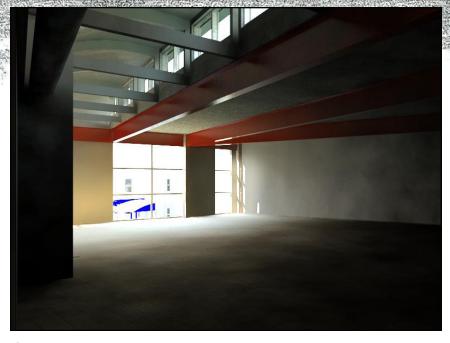


Schematic Design



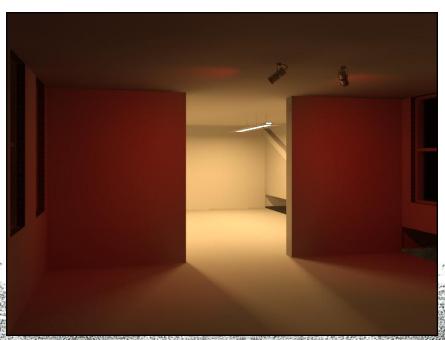


Week Seven Spring 2010





Schematic Design





Week Seven Spring 2010

### A Museum of Architectural Elements



Schematic Design

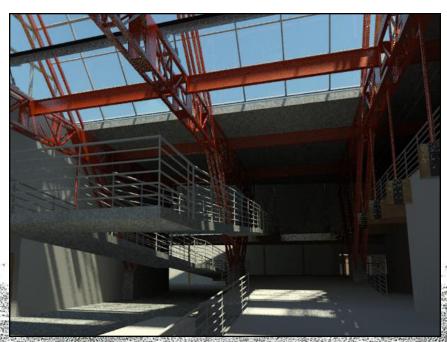




Week Seven Spring 2010



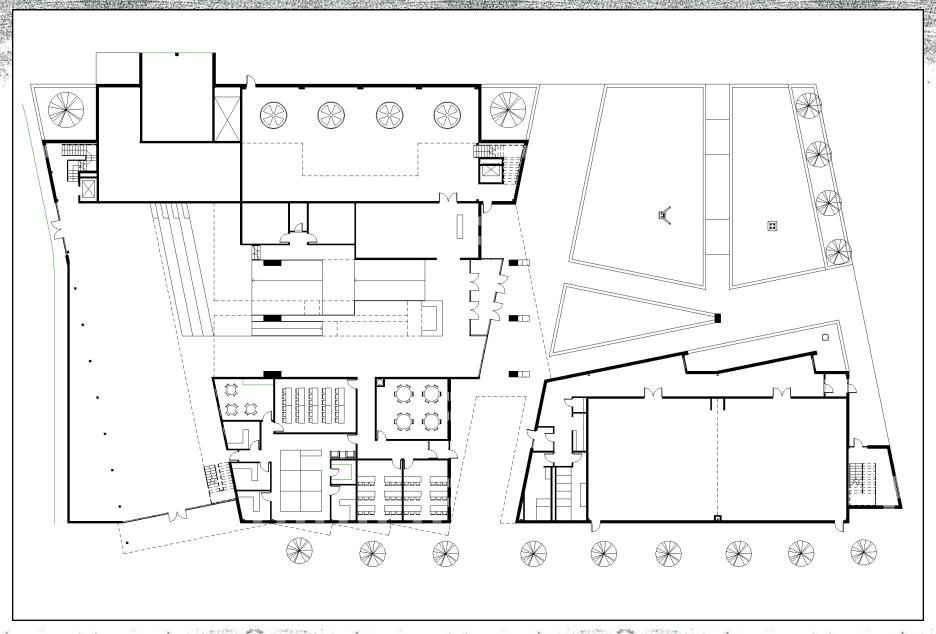
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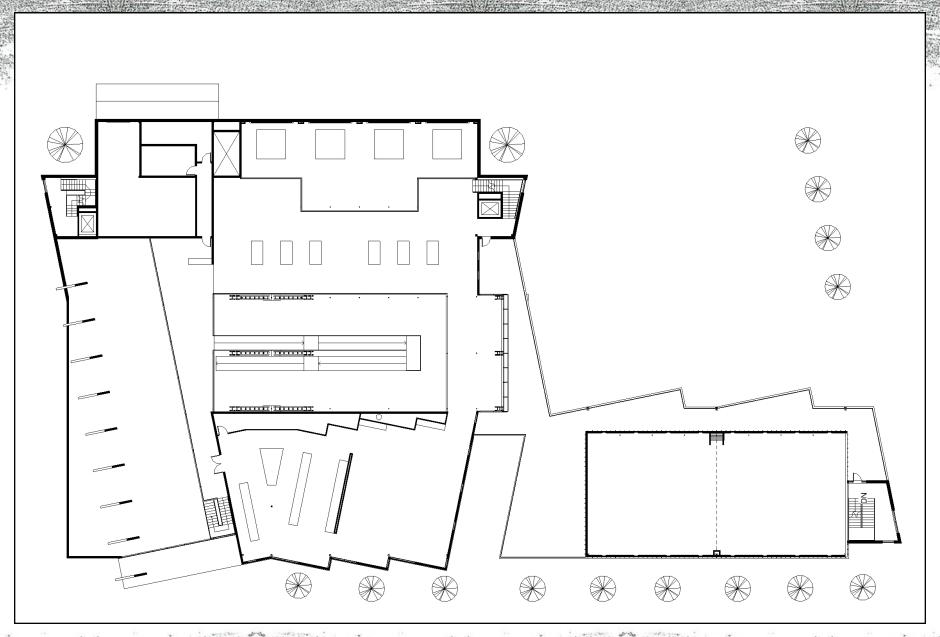


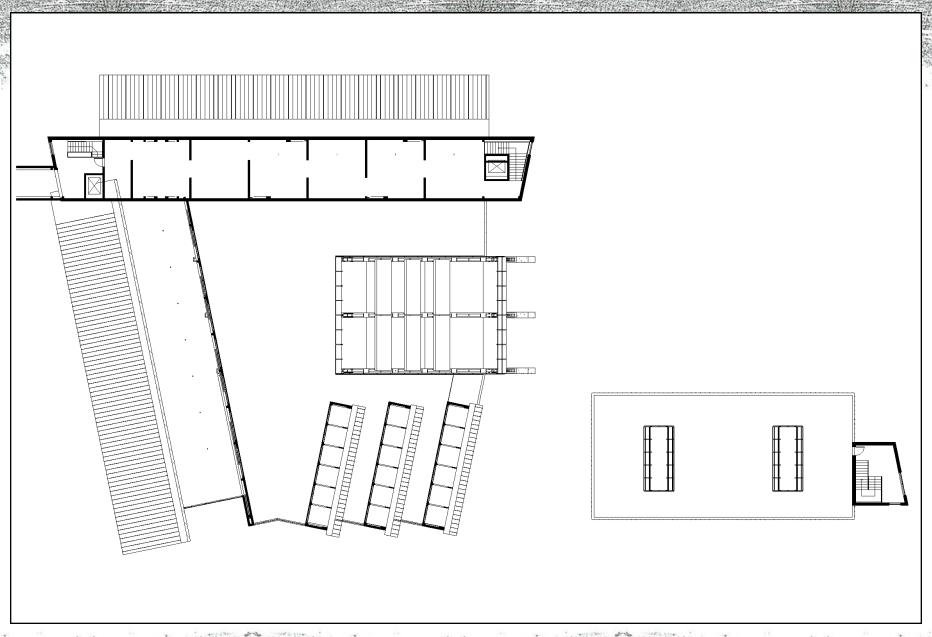


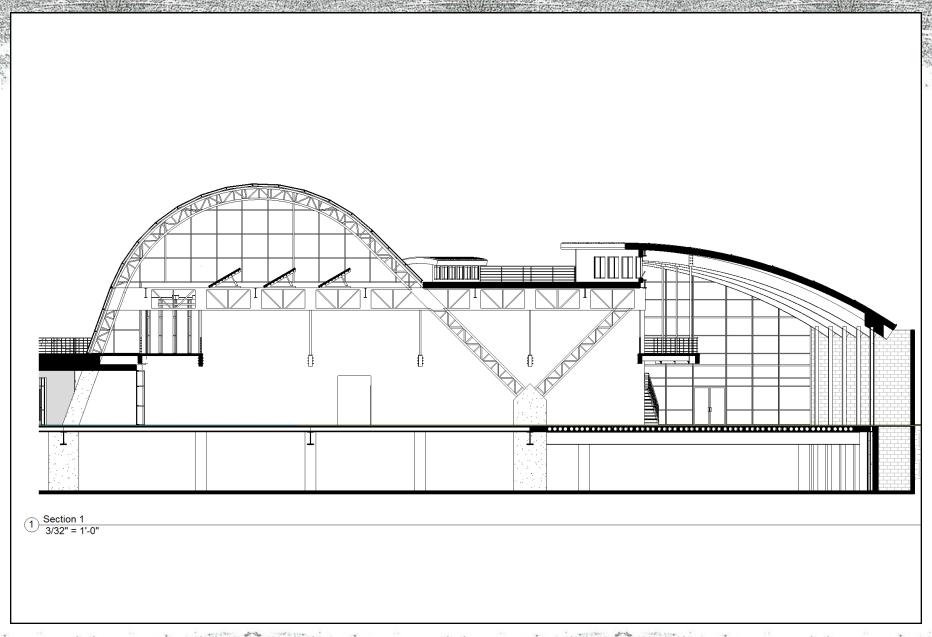
Week Seven

Spring 2010









#### A Museum of Architectural Elements





Schematic Design





Week Eight Spring 2010

#### A Museum of Architectural Elements



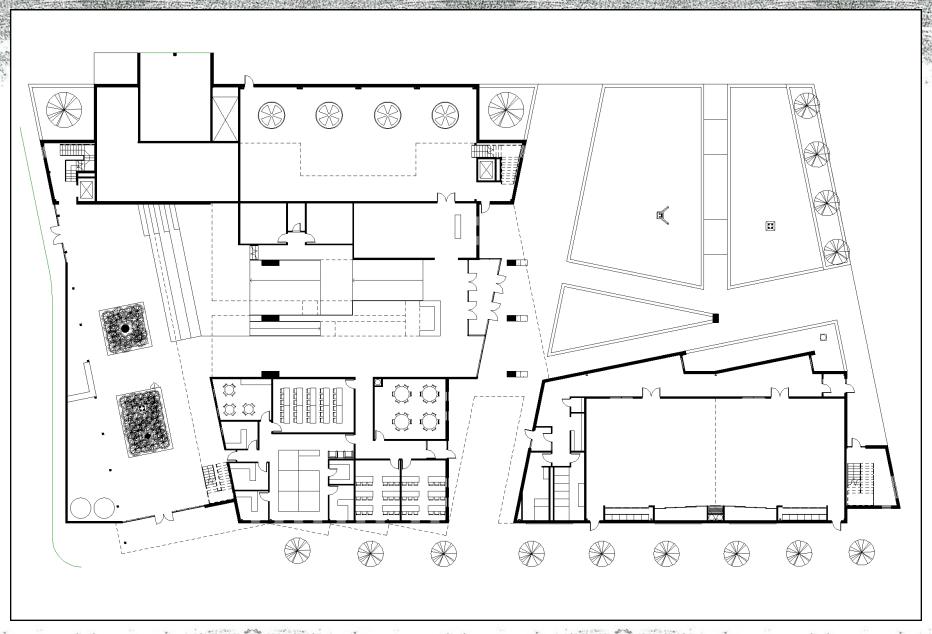


Schematic Design

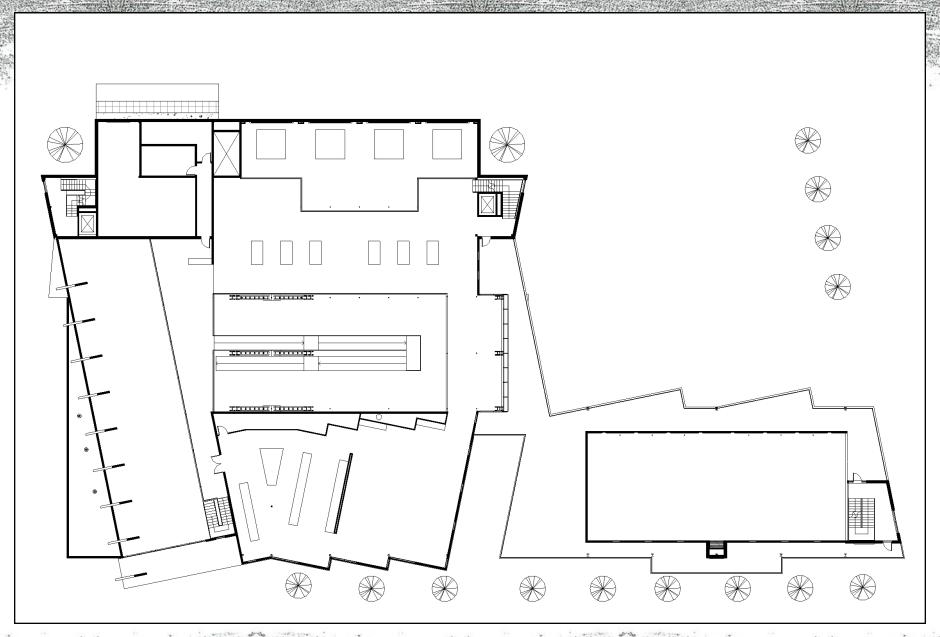




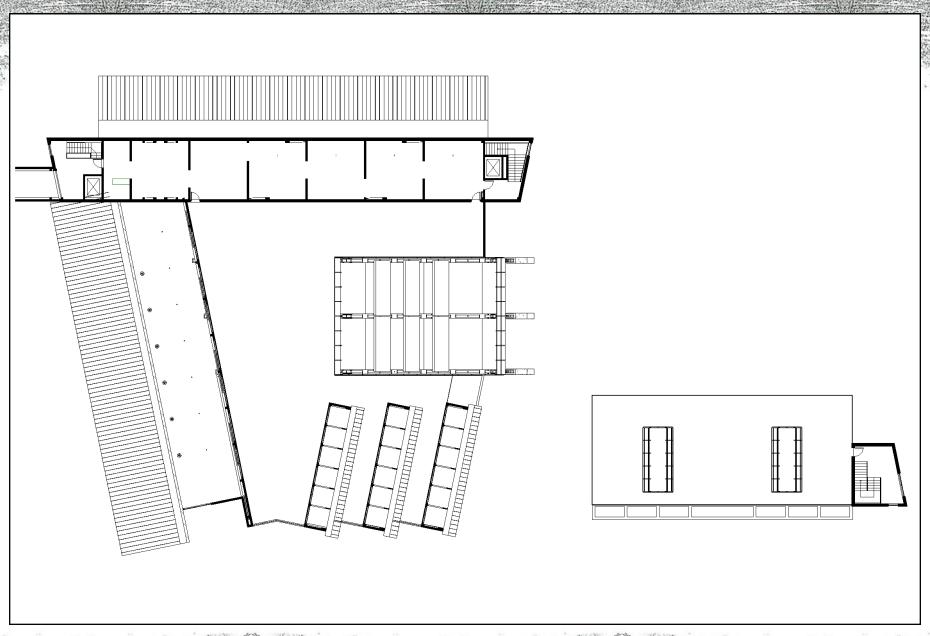
Week Eight Spring 2010



Schematic Design



Schematic Design



Schematic Design

















Midterm Review

Spring 2010



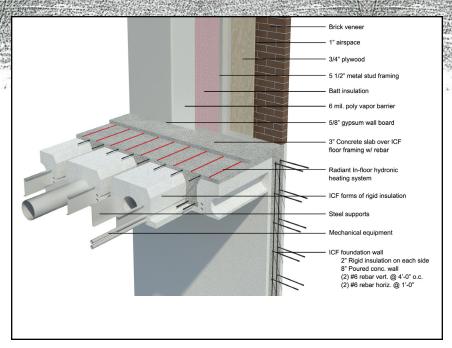




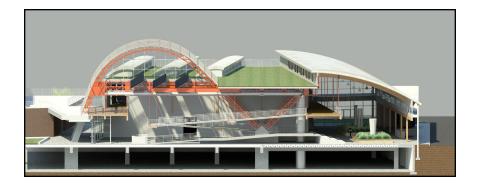


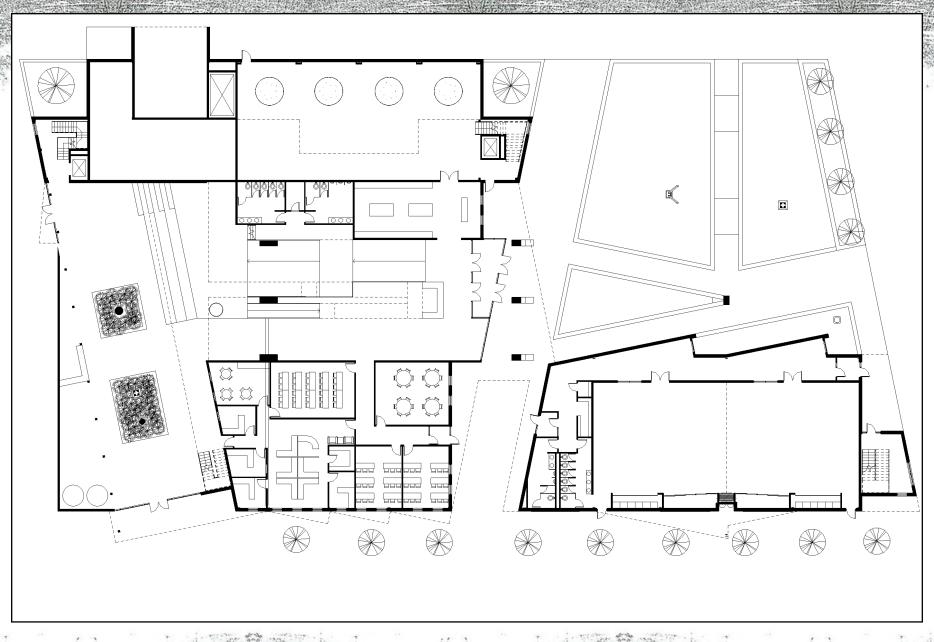
Midterm Review

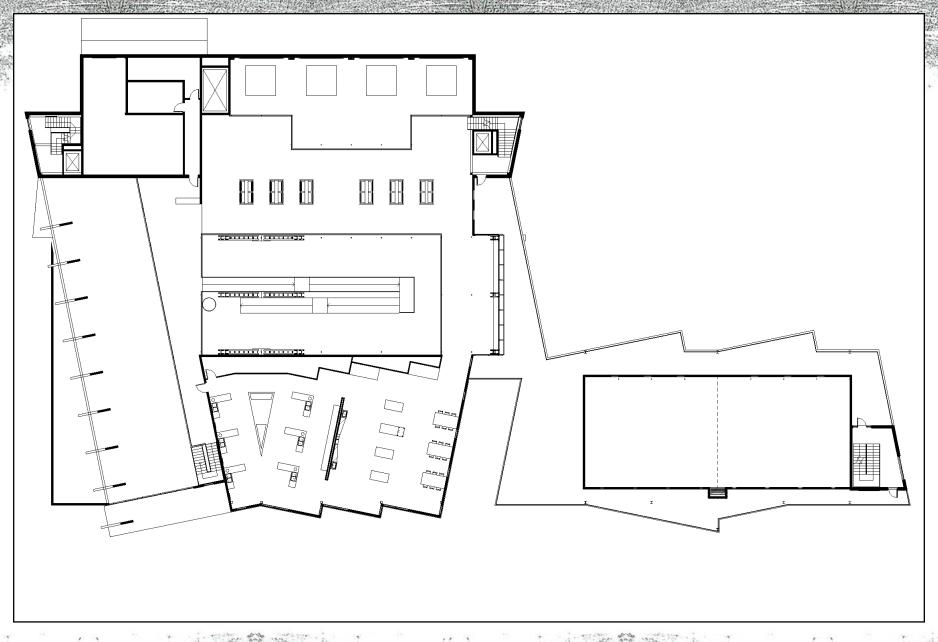
# 4" Earth Drainage mat Root barrier 6" Rigid insulation EPDM roof membrane 4" Composite decking W24x65 Steel beam 1" Wood panel Wood backing supports 1" Rigid insulation 3/4" Plywood 5 1/2" Mtl. stud framing w/ batt insulation HSS 8x8x1/4" column 6 mil. poly vapor barrier 5/8" Gypsum wall board

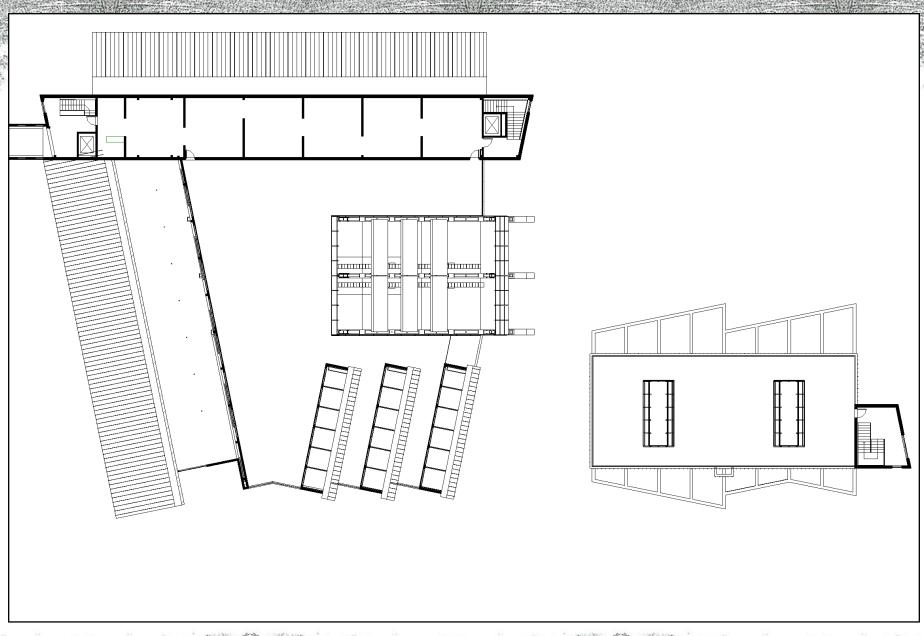














Design Development







#### A Museum of Architectural Elements





Design Development





Spring 2010

Week Ten

#### A Museum of Architectural Elements



Design Development





Week Ten

Spring 2010





Design Development





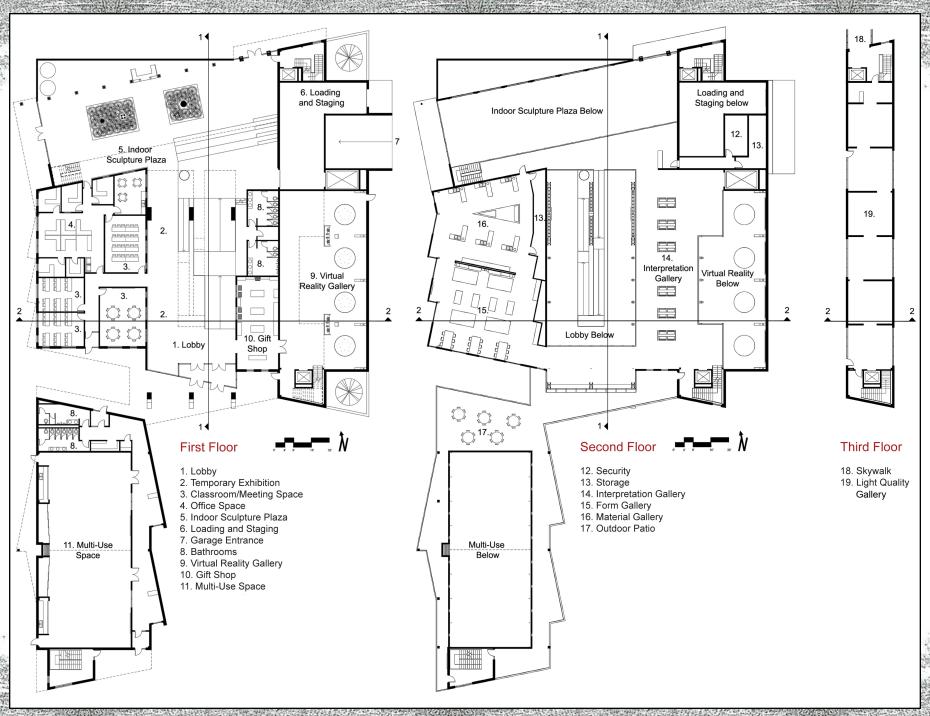
Week Eleven

Spring 2010

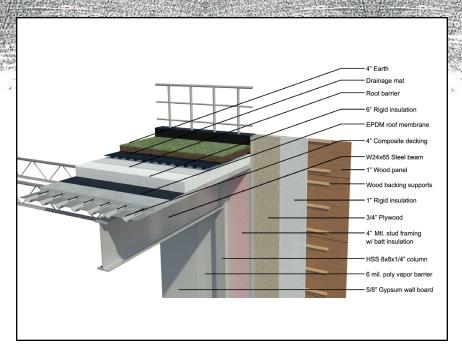


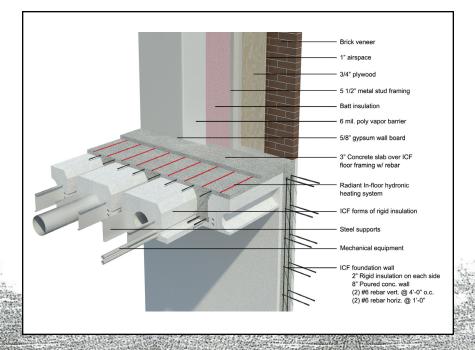






# Solar panels Mech. ductwork Space frame steel structure Steel tube column 3" wood decking Steel tube bracing Glulam beam hanging from the space frame Operable windows Mtl. stud framing Temporary exhibits

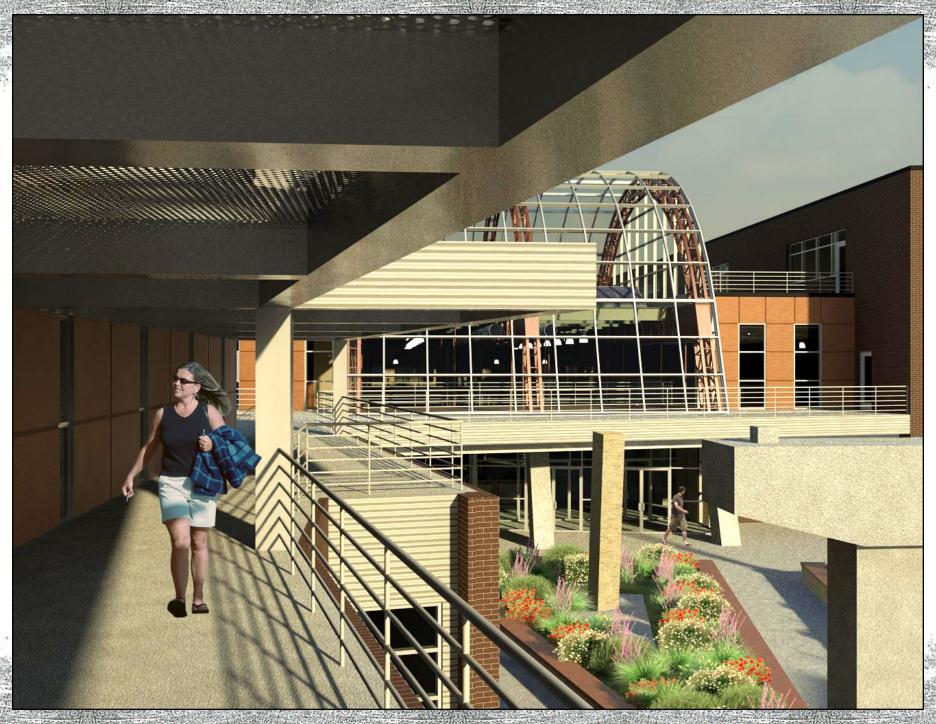












Final Drawings

Spring 2010

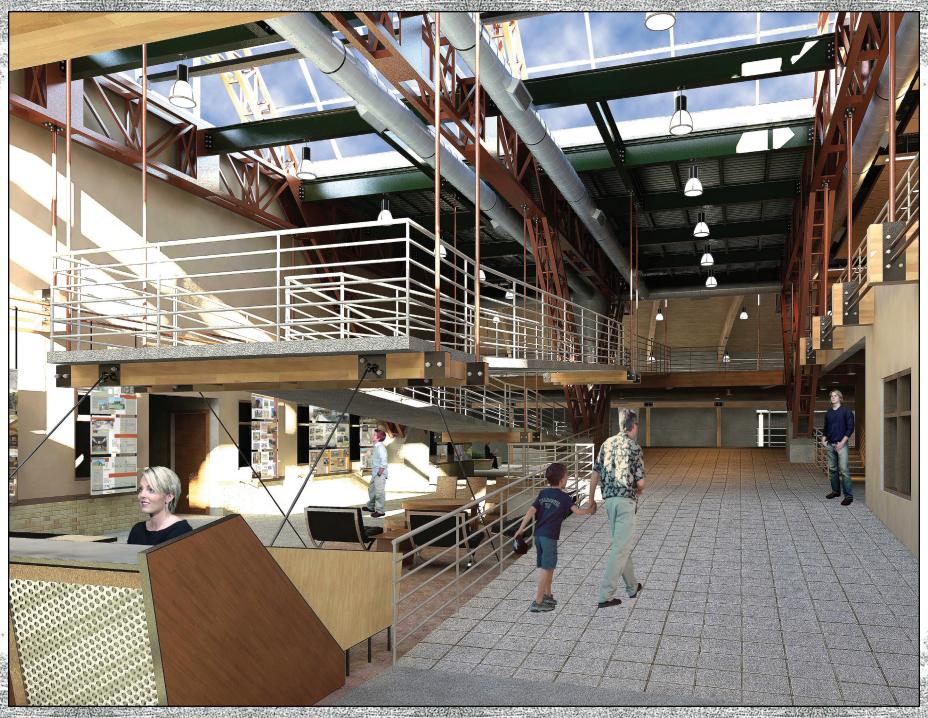








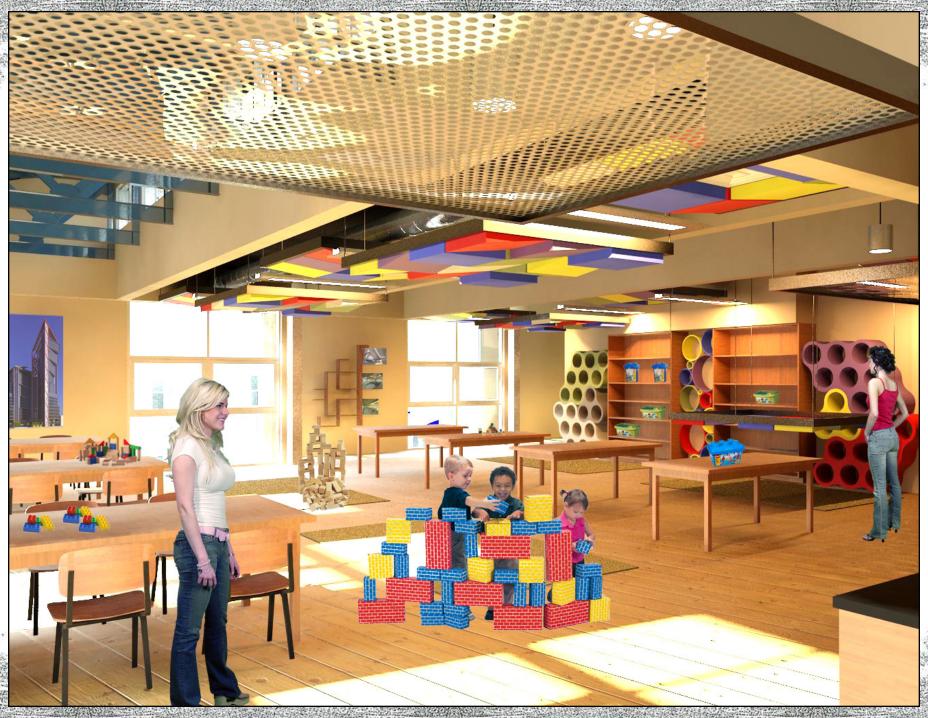


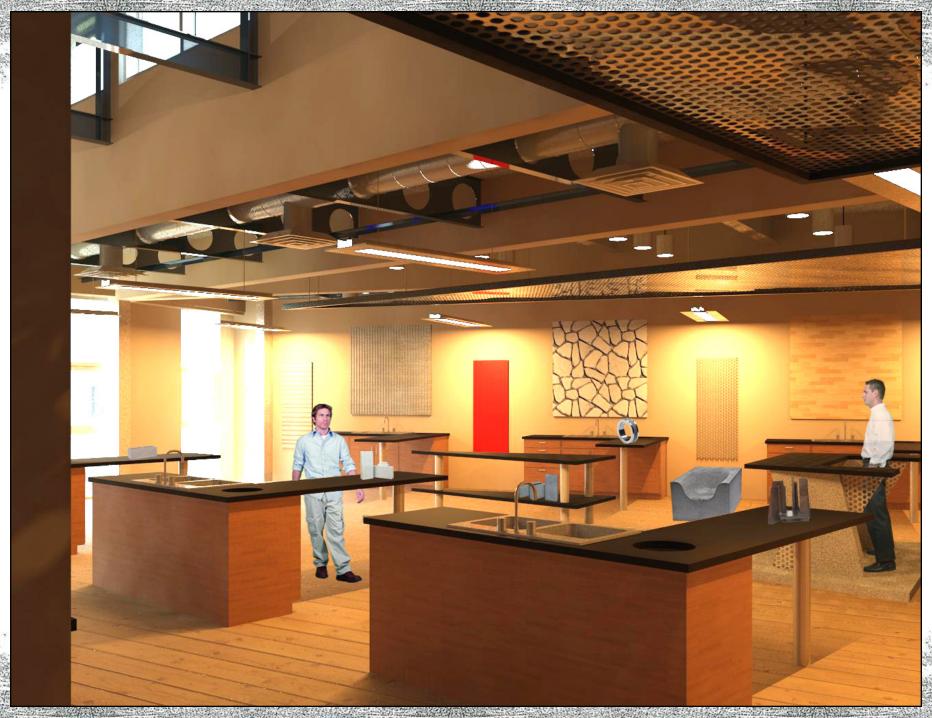


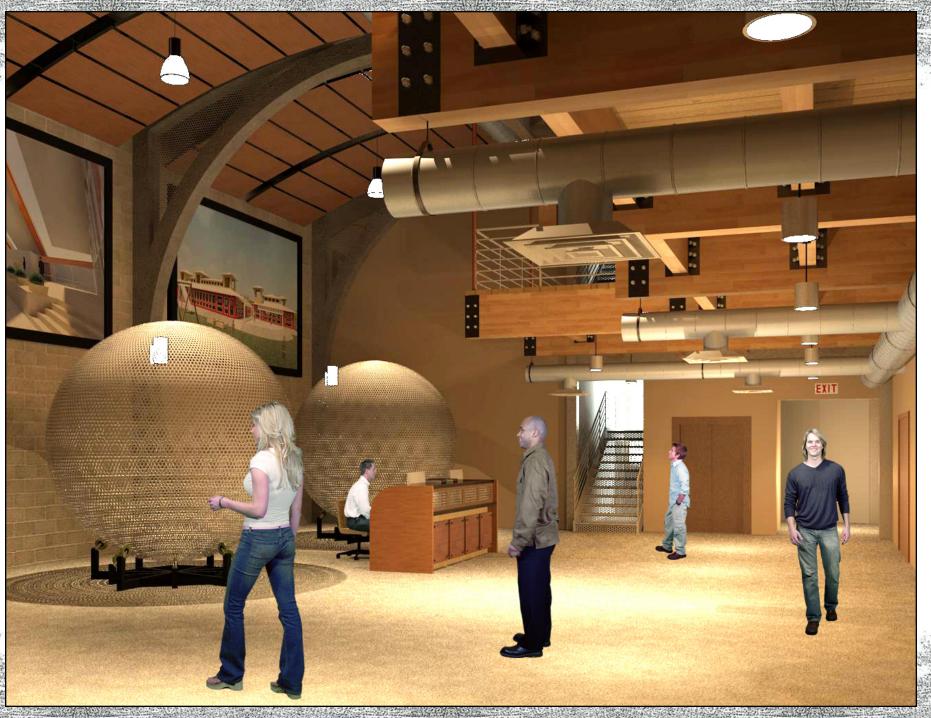
Final Drawings

Spring 2010











Spring 2010



Final Drawings