



UO Lewis Integrative Science Building

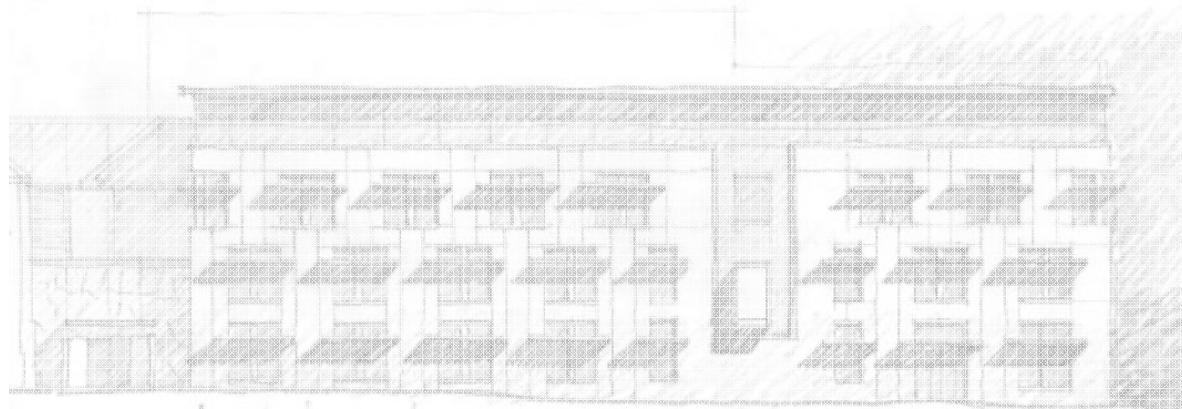
Agenda

- Introductions
- Building Design Update (45 mins)
- Sustainability Goals for Project (30 mins)
- Space Planning Feedback (15 mins)
- Interior Floor Finishes (15 mins)
- Floor Plan sign-off (5 mins)
- Other

Design Status

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Building Development



South Elevation Studies

















Design Update: Up & Over





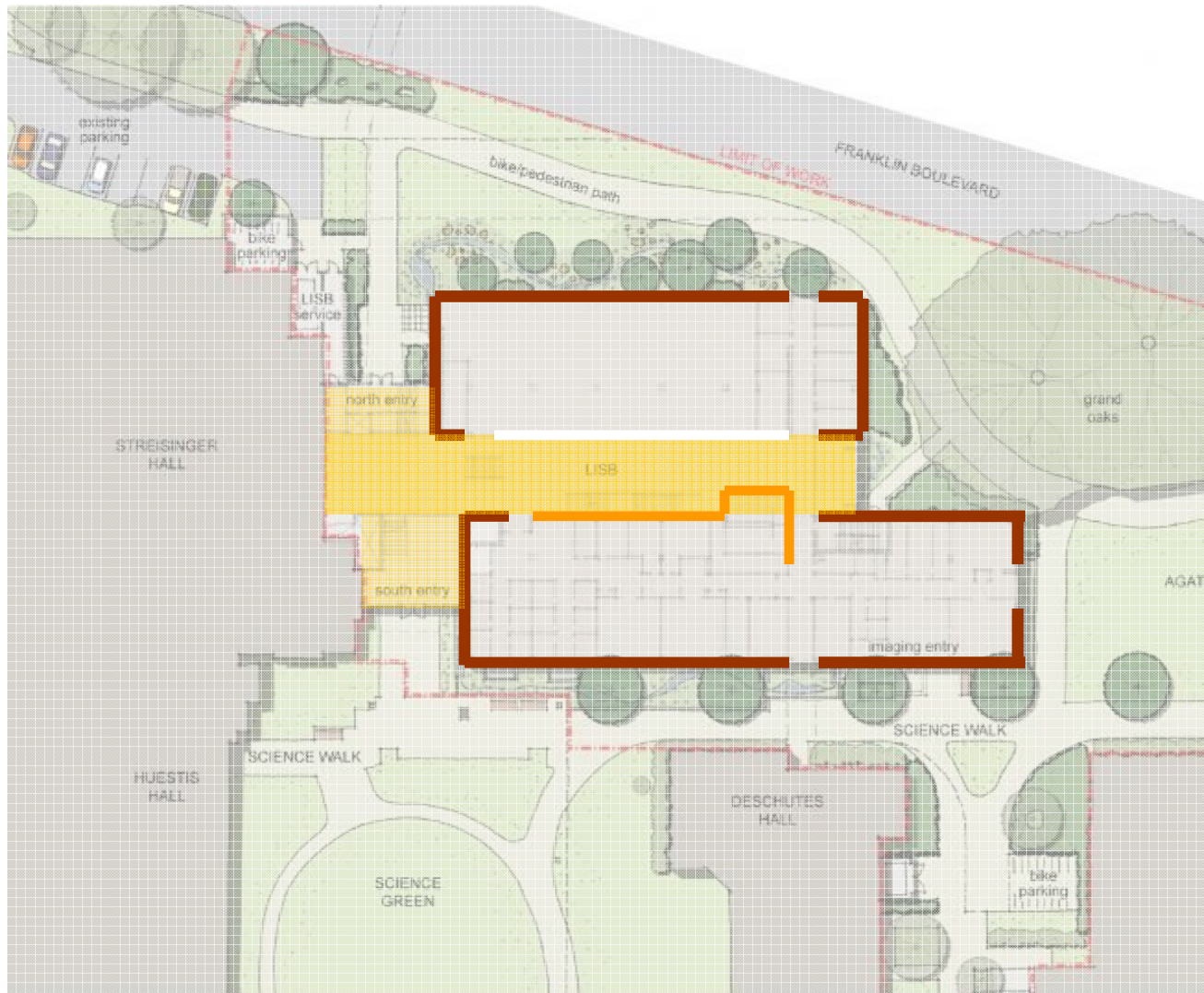







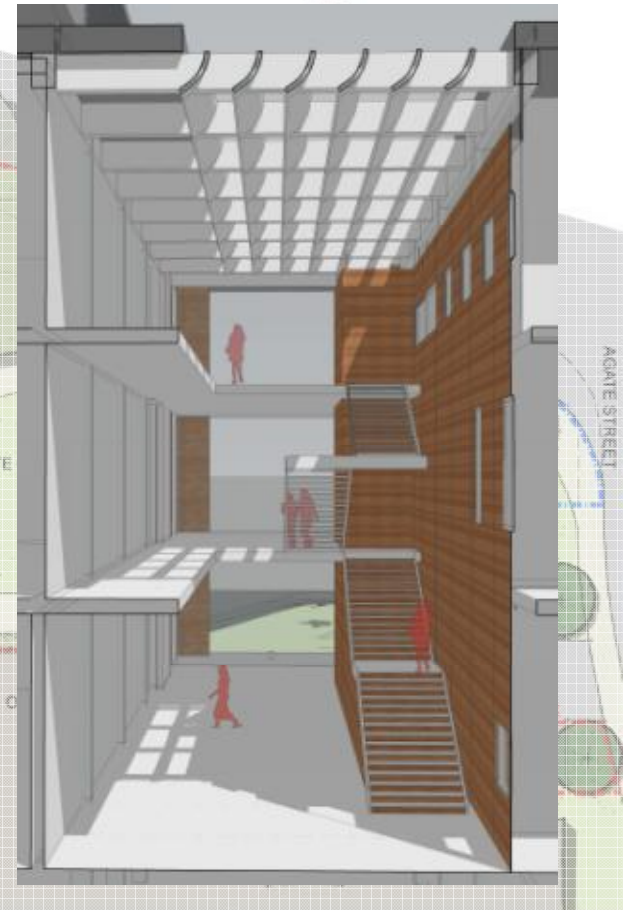




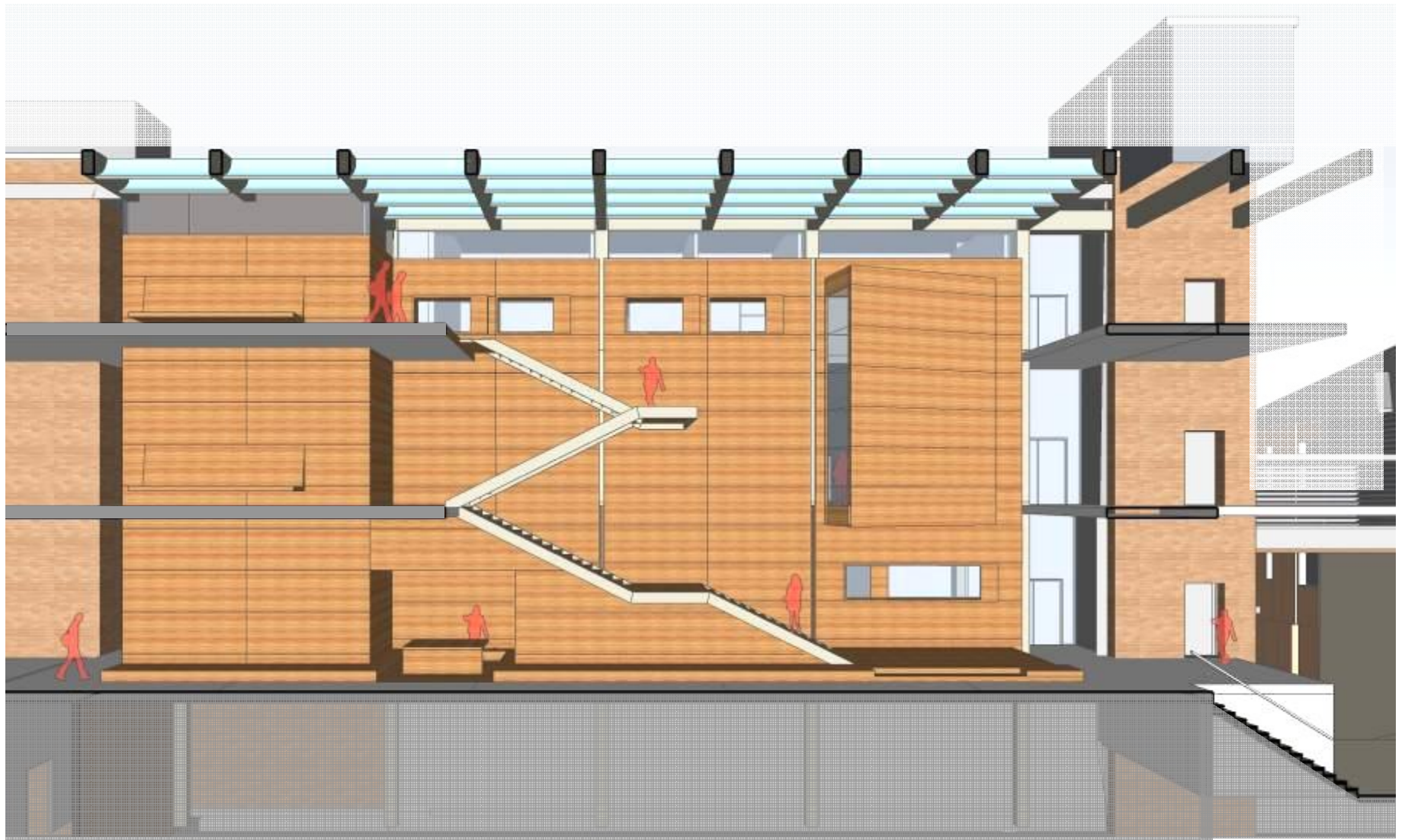
Design Update: **Atrium**



-  EXISTING SHRUB or HEDGE
-  EXISTING TREE
-  PROPOSED SHRUB or HEDGE



LIMIT OF WORK
 TO EXTEND SOUTH TO 15TH AVE

















Sustainability Goals Update

Project Sustainability Goals

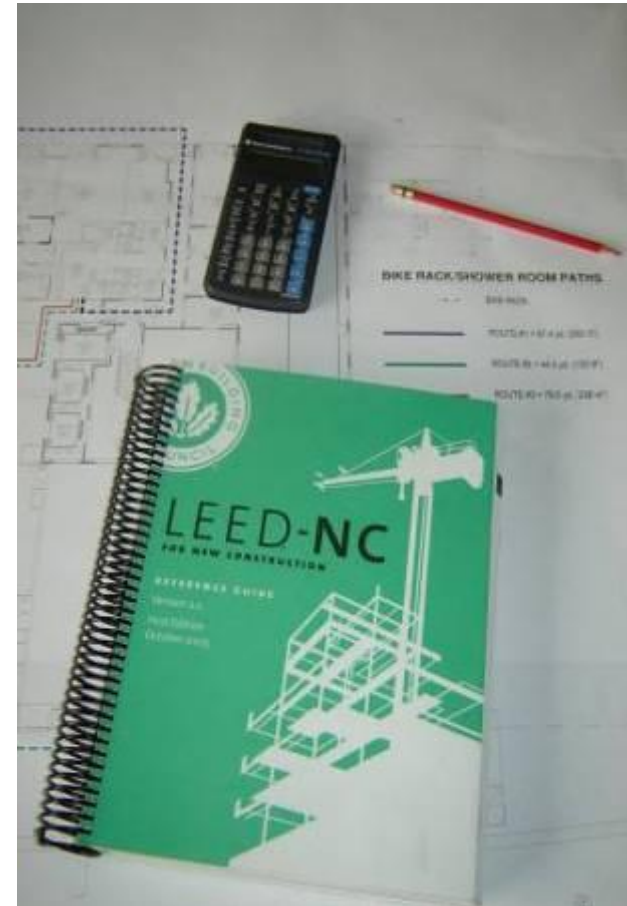
- Building Energy Performance 40% Better than 2004 ASHRAE 90.1
- Zero Potable Water for sewage conveyance and irrigation
- Natural Ventilation for offices and appropriate dry lab spaces
- Harmonize building performance with the program it serves
- Maximize Day Lighting to offset power density
- Solar Monitoring as Educational Tool
- Dashboard as Educational Tool
- Alternative Transportation is More Convenient than the Automobile - carefully consider pedestrian experience, bikes, and local public transit
- Building as an Experimental Armature
- Sustainability Dashboard as Artwork
- LEED/BETC - evaluate business decisions associated with LEED vs. LEED Equivalent

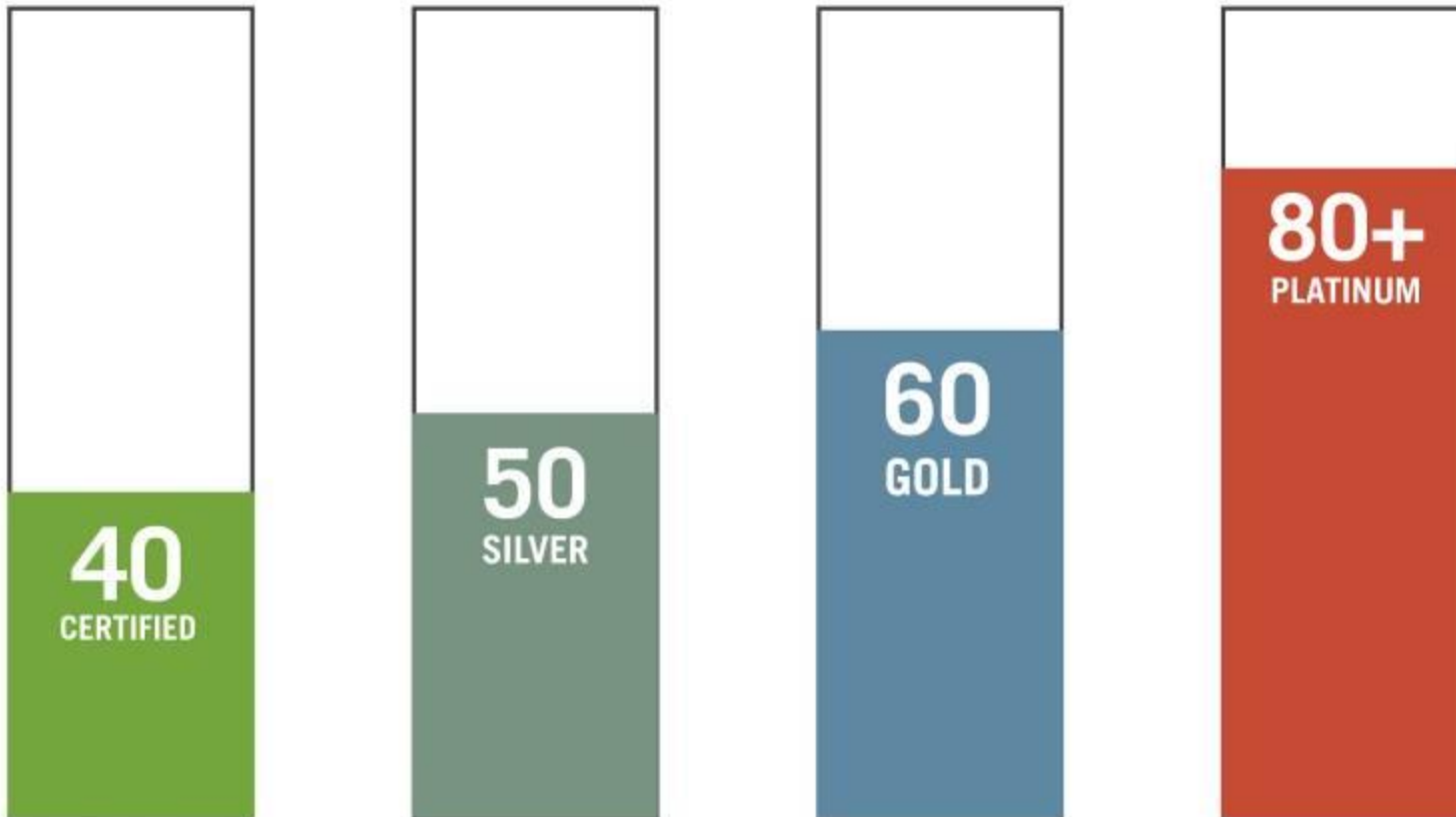
Sustainability

- Presidents Climate Commitment
- Natural Step
- Metrics for measured success:
 - LEED
 - 2030 Challenge
 - Living Building Challenge

LEED

Leadership in Energy and Environmental Design





100 Points

| ? | | No | | Certified 40-49 points | | Silver 50-59 points | | Gold 60-79 points | | Platinum 80 or more points | | |
|---|---|---|--|------------------------|--|---------------------|--|-------------------|---|----------------------------|--|---|
| 7 | 3 | Sustainable Sites | | Possible Points | | 26 | | 5 | 2 | 7 | Materials & Resources | Possible Point |
| ? | N | Prereq 1 Construction Activity Pollution Prevention | | | | | | Y | ? | N | Prereq 1 Storage & Collection of Recyclables | |
| | | Credit 1 Site Selection | | 1 | | | | Y | | | 3 | Credit 1.1-3 Building Reuse, Maintain 55%/75%/95% of Existing Walls, Floors & Roof |
| | | Credit 2 Development Density & Community Connectivity | | 5 | | | | | | | 1 | Credit 1.4 Building Reuse, Maintain 50% of Interior Non-structural Elements |
| | 1 | Credit 3 Brownfield Redevelopment | | 1 | | | | 2 | | | | Credit 2.1-2 Construction Waste Management, Divert 50%/75% from Disposal |
| | | Credit 4.1 Alternative Transportation, Public Transportation Access | | 6 | | | | | | | 2 | Credit 3.1 Material Reuse, 5% / 10% |
| 1 | | Credit 4.2 Alternative Transportation, Bicycle Storage & Changing Rooms | | 1 | | | | 1 | 1 | | | Credit 4.1-2 Recycled Content, 10%/20% (post-consumer + 1/2 pre-consumer) |
| 3 | | Credit 4.3 Alternative Transportation, Low Emitting & Fuel Efficient Vehicles | | 3 | | | | 1 | 1 | | | Credit 5.1 Local/Regional Materials, 10%/20% Extracted, Processed & Manufactured |
| 3 | | Credit 4.4 Alternative Transportation, Parking Capacity | | 2 | | | | | | | 1 | Credit 6 Rapidly Renewable Materials |
| | 1 | Credit 5.1 Reduced Site Disturbance, Protect or Restore Open Space | | 1 | | | | 1 | | | | Credit 7 Certified Wood |
| | 1 | Credit 5.2 Reduced Site Disturbance, Maximize Open Space | | 1 | | | | | | | | |
| | | Credit 6.1 Stormwater Management, Quantity Control | | 1 | | | | 10 | 4 | 1 | Indoor Environmental Quality Possible Point | |
| | | Credit 6.2 Stormwater Management, Quality Control | | 1 | | | | Y | ? | N | | |
| | | Credit 7.1 Landscape & Exterior Design to Reduce Heat Islands, Non-Roof | | 1 | | | | Y | | | | Prereq 1 Minimum IAQ Performance |
| | | Credit 7.2 Landscape & Exterior Design to Reduce Heat Islands, Roof | | 1 | | | | Y | | | | Prereq 2 Environmental Tobacco Smoke (ETS) Control |
| | | Credit 8 Light Pollution Reduction | | 1 | | | | 1 | | | | Credit 1 Outside Air Delivery Monitoring |
| | | | | | | | | | | | 1 | Credit 2 Increased Ventilation |
| 2 | | Water Efficiency | | Possible Points | | 10 | | 1 | | | | Credit 3.1 Construction IAQ Management Plan, During Construction |
| ? | N | Prereq 1 Water Use Reduction, 20% Reduction | | | | | | 1 | | | | Credit 3.2 Construction IAQ Management Plan, Before Occupancy |
| | | Credit 1.1 Water Efficient Landscaping, Reduce by 50% | | 2 | | | | 1 | | | | Credit 4.1 Low-Emitting Materials, Adhesives & Sealants |
| 2 | | Credit 1.2 Water Efficient Landscaping, No Potable Use or No Irrigation | | 2 | | | | 1 | | | | Credit 4.2 Low-Emitting Materials, Paints & Coatings |
| | | Credit 2 Innovative Wastewater Technologies | | 2 | | | | 1 | | | | Credit 4.3 Low-Emitting Materials, Carpet Systems |
| | | Credit 3 Water Use Reduction, 30%/35%/40% Reduction | | 4 | | | | 1 | | | | Credit 4.4 Low-Emitting Materials, Composite Wood & Agrifiber Products |
| | | | | | | | | 1 | | | | Credit 5 Indoor Chemical & Pollutant Source Control |
| 8 | 7 | Energy & Atmosphere | | Possible Points | | 35 | | 1 | | | | Credit 6.1 Controllability of Systems, Lighting |
| ? | N | Prereq 1 Fundamental Commissioning of the Building Energy Systems | | | | | | | | | 1 | Credit 6.2 Controllability of Systems, Thermal Comfort |
| | | Prereq 2 Minimum Energy Performance | | | | | | | | | 1 | Credit 7.1 Thermal Comfort, Design |
| | | Prereq 3 Fundamental Refrigerant Management | | | | | | | | | 1 | Credit 7.2 Thermal Comfort, Verification |
| 4 | 2 | Credits 1 Optimize Energy Performance, 12.5% to 48% beyond ASHRAE 90.1-2007 | | 19 | | | | | | | 1 | Credit 8.1 Daylight & Views, Daylight 75% of Spaces |
| 4 | 3 | Credits 2 On-Site Renewable Energy, 1% to 13% of total building demand | | 7 | | | | | | | 1 | Credit 8.2 Daylight & Views, Views for 90% of Spaces |
| | | Credit 3 Enhanced Commissioning | | 2 | | | | | | | | |
| | | Credit 4 Enhanced Refrigerant Management | | 2 | | | | 6 | | | Innovation & Design Process Possible Point | |
| | | Credit 5 Measurement & Verification | | 3 | | | | Y | ? | N | | |
| | 2 | Credit 6 Green Power | | 2 | | | | 1 | | | | Credit 1.1 Innovation in Design: Exemplary Performance: Construction Waste Management |
| | | | | | | | | 1 | | | | Credit 1.2 Innovation in Design: Green Cleaning & Integrated Pest Management Program |
| | | | | | | | | 1 | | | | Credit 1.3 Innovation in Design: Green public & staff education programs |
| | | | | | | | | 1 | | | | Credit 1.4 Innovation in Design: TBD |
| | | | | | | | | 1 | | | | Credit 1.5 Innovation in Design: TBD |
| | | | | | | | | 1 | | | | Credit 2 LEED Accredited Professional |
| | | | | | | | | | | | | |
| | | | | | | | | 2 | | | 3 | Regional Priority Credits Possible Point |
| | | | | | | | | Y | ? | N | | |
| | | | | | | | | | | | 1 | Credit 1.1 Regional Priority Credit: SS Credit 3, Brownfield Redevelopment |
| | | | | | | | | 1 | | | | Credit 1.2 Regional Priority Credit: WE Credit 2, Innovative Wastewater Technologies |
| | | | | | | | | | | | 1 | Credit 1.3 Regional Priority Credit: MR Credit 1.1, Building Reuse |
| | | | | | | | | | | | 1 | Credit 1.4 Regional Priority Credit: MR Credit 3, Material Reuse |
| | | | | | | | | 1 | | | | Credit 1.5 Regional Priority Credit: MR Credit 7, Certified Wood |
| | | | | | | | | | | | | |
| | | Credits highlighted in yellow are eligible as Regional Priority Credits for Eugene. If we earn any of these we can also claim an additional Regional Priority Credit Point. | | | | | | | | | | |

LEED GOLD

Yes

LEED PLATINUM

Maybe



To LEED or not to LEED

Costs - \$60K-\$70K with student help or \$110K-\$120K without student help.

BETC Credit is worth approx \$115K for Gold and approx \$180K for Platinum. (Not applicable to project budget.)

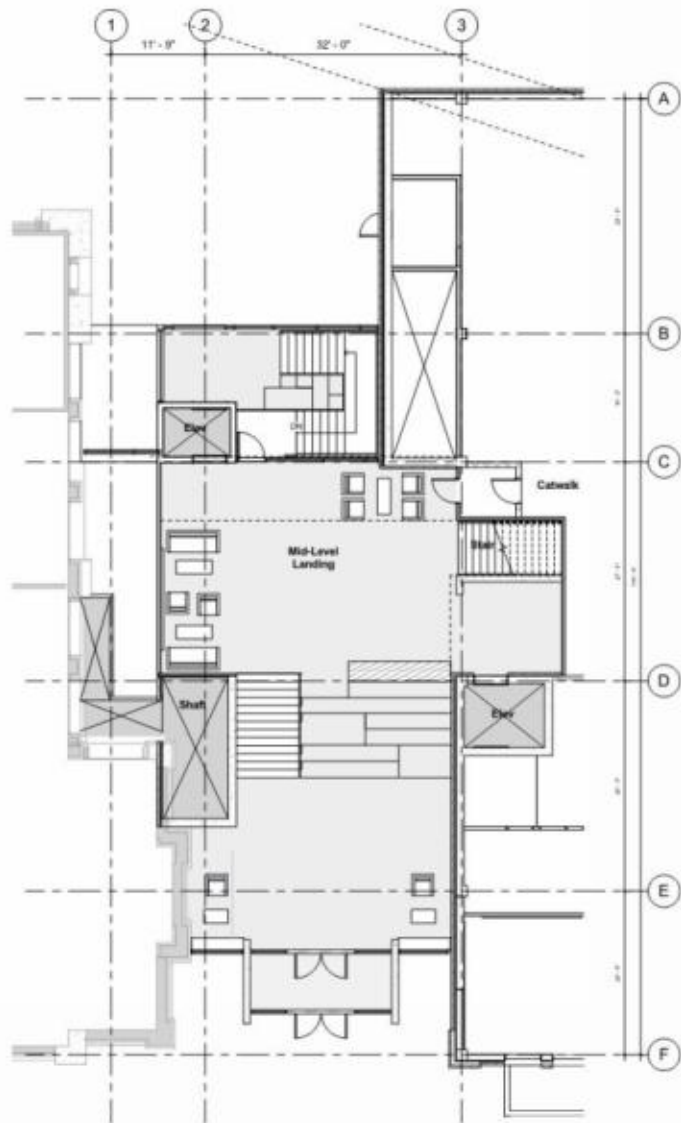
Intangible Values:

- Leading edge institutions typically go LEED
- Marketing value to University
- Marketing value to Users
- Known metric for measuring level of sustainability
- Information sharing – project available as case study for others.

Design Status



Space Planning



Up and Over Plan



Second Floor Plan



Third Floor Plan



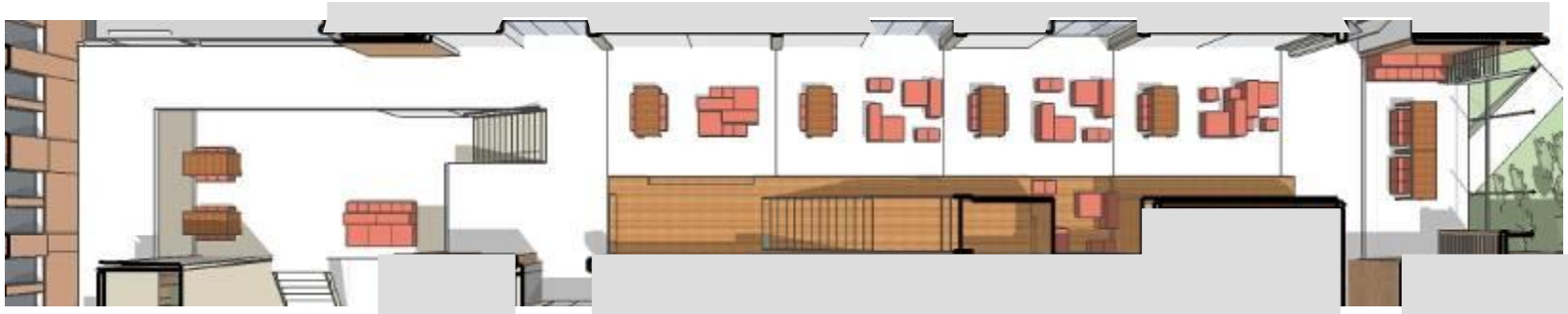
Fourth Floor Plan



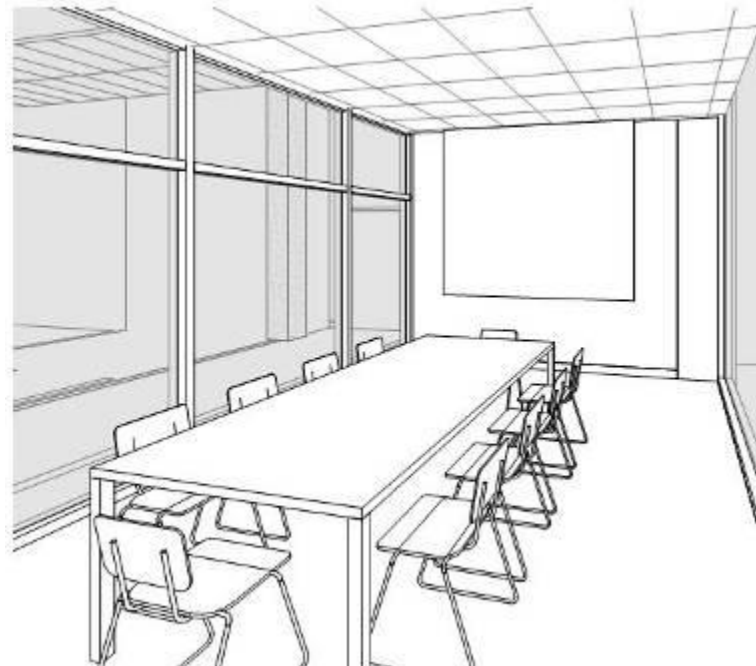
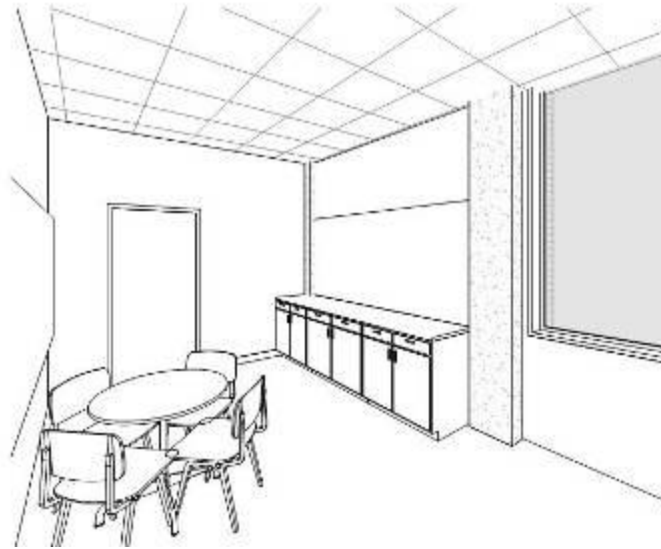
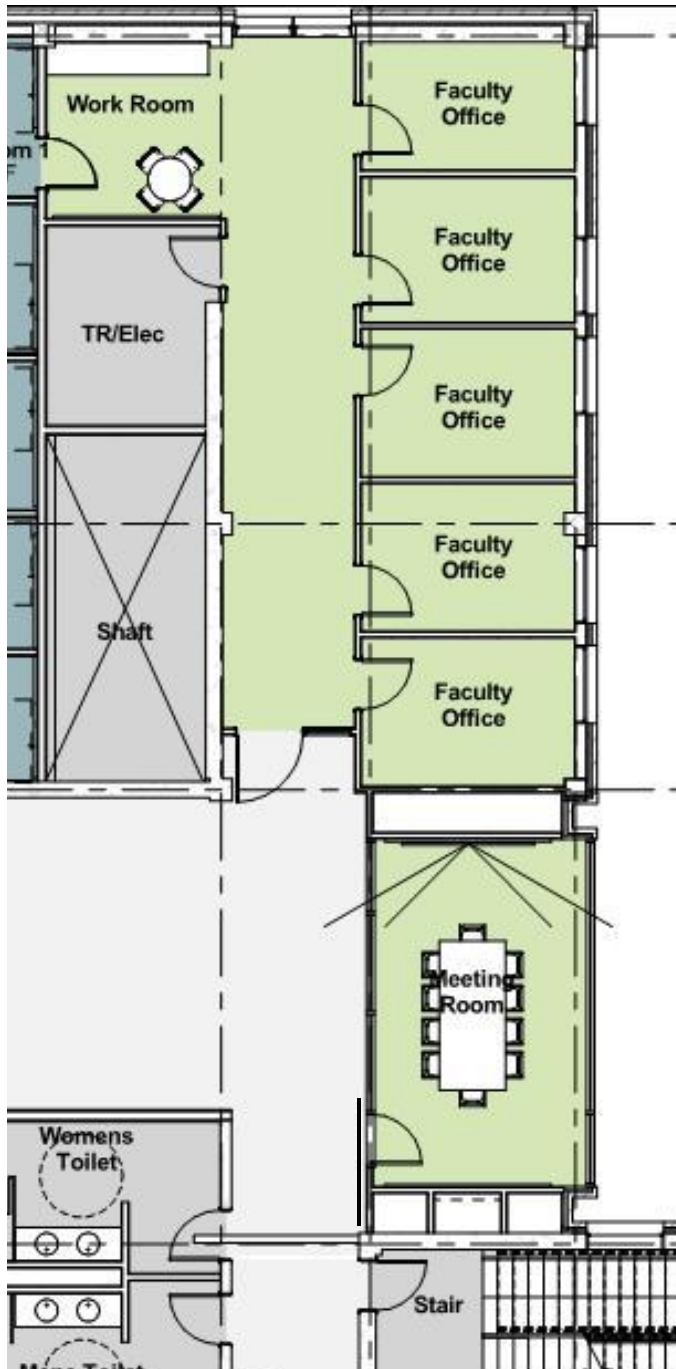
Furniture in public spaces



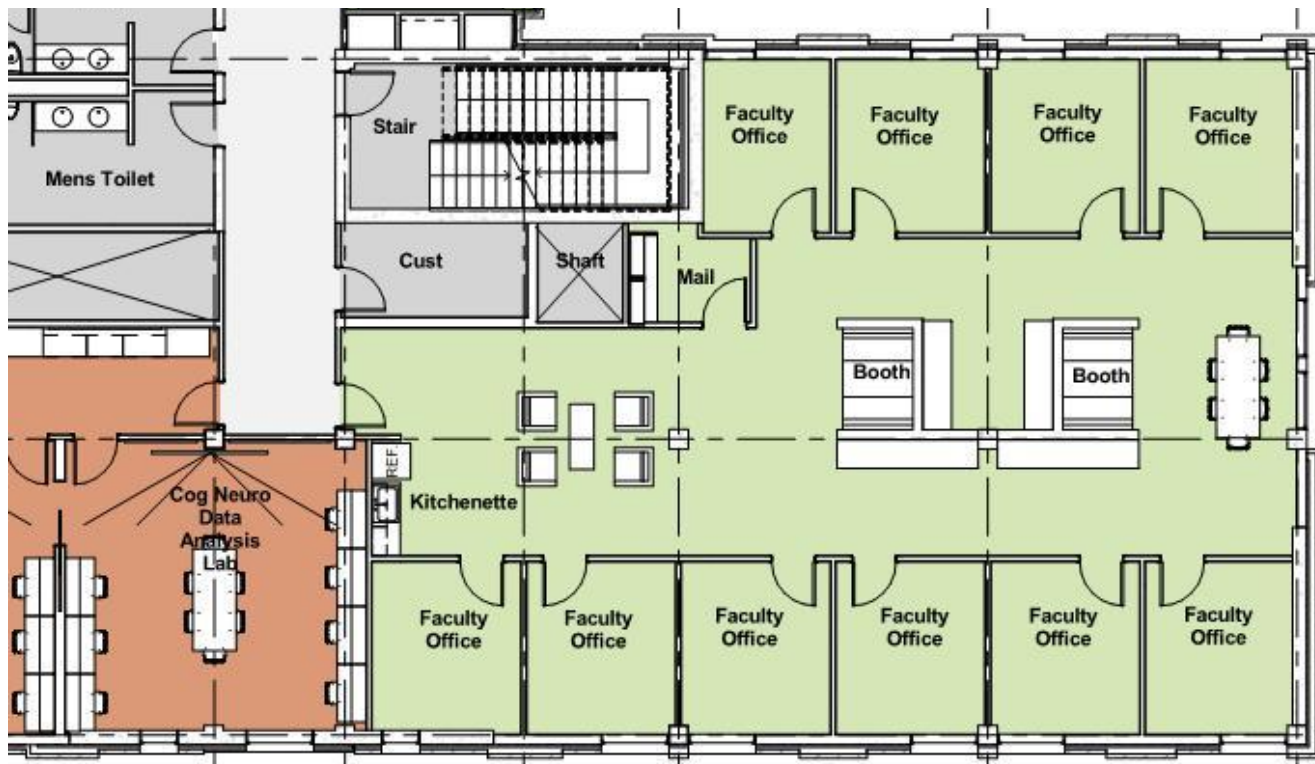
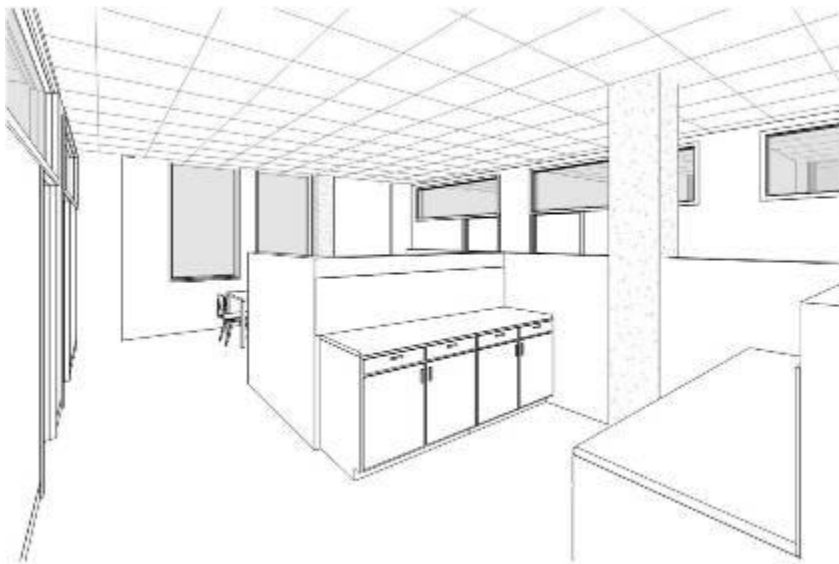




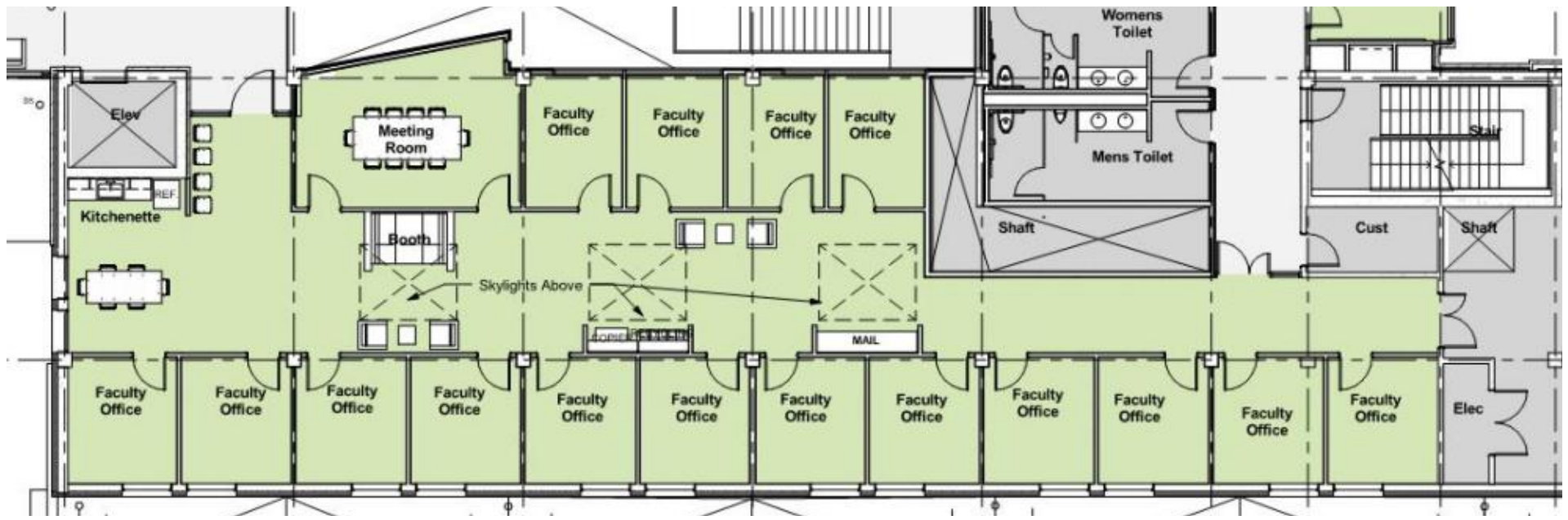
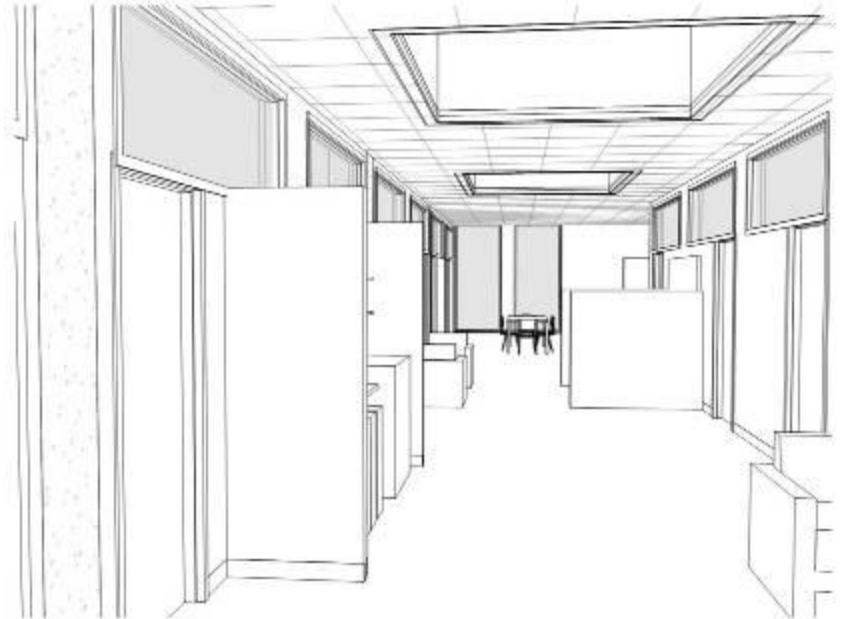
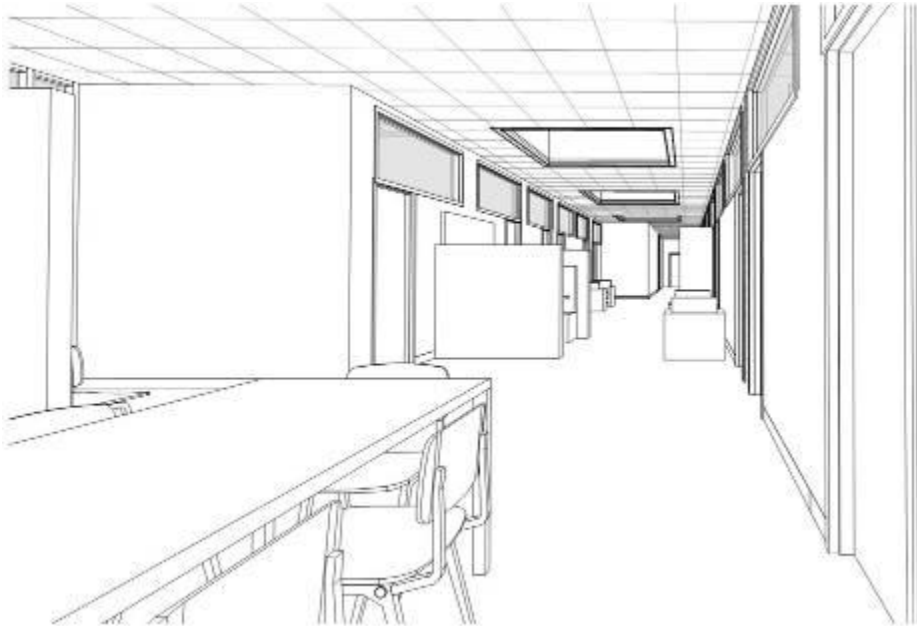




North Offices



3rd Floor Offices

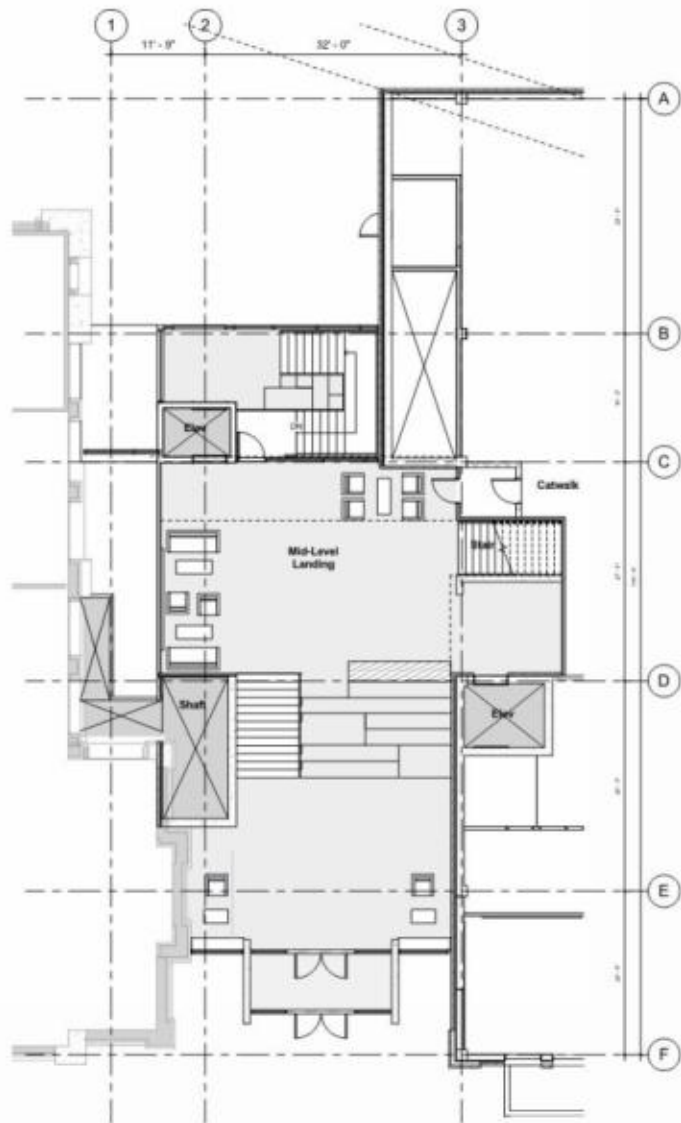


4th Floor Offices

Design Review



Flooring Finishes



Up and Over Plan

End