



State of Utah

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Department of Administrative Services

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Executive Director

Division of Facilities Construction and Management

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Director

## Addendum No. 1

Date: January 10, 2013

To: Consultants

From: Matthias Mueller – Program Director

Reference: Programming – New Science Building  
Weber State University – Ogden, Utah  
DFCM Project No. 12345810

Subject: **Addendum No. 1**

Pages	Addendum Cover Sheet	1 page
	<u>Feasibility Study</u>	<u>173 pages</u>
	Total	174 pages

**Note:** *This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.*

While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

**1.1 SCHEDULE CHANGES:** There are no Project Schedule changes.

**1.2 GENERAL ITEMS:** See attached MHTN Architects Feasibility Study dated May 31, 2012. The attached study presents limited information regarding the future Weber State University Science Building project. The study was not intended to define the building's program. DFCM and WSU will not be responsible for information, interpretations, or conclusions drawn by the selected A/E team concerning the program from the information contained in the study.



# WEBER STATE UNIVERSITY SCIENCE BUILDING

[FEASIBILITY STUDY]

05.31.2012





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# APPROVALS

WE HAVE REVIEWED THE  
WSU SCIENCE BUILDING  
FEASIBILITY STUDY  
AND WARRANT THAT IT  
ADEQUATELY MEETS THE  
REQUESTED PROJECT  
SCOPE.  
ALL APPROPRIATE  
PARTIES REPRESENTING  
THE UNIVERSITY HAVE  
REVIEWED IT FOR  
COMPLETENESS AND  
ACCURACY.

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Weber State University Date

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Weber State University Date

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Weber State University Date

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## ACKNOWLEDGEMENTS

THE FOLLOWING  
PARTICIPATED IN THE  
DEVELOPMENT OF THE  
WSU SCIENCE BUILDING  
FEASIBILITY STUDY

### WEBER STATE UNIVERSITY

#### Administration

Ann Millner, President  
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Michael Vaughn, Provost

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John Thaeler, Developmental Math  
Barbara Wachocki, Botany

### CONSULTANT TEAM

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#### ARW Structural Engineers

Jeremy Achter

#### Colvin Mechanical Engineers

Steve Connor

#### ECE Electrical Engineers

John Michie

# 1 Executive Summary

# 1: EXECUTIVE SUMMARY

Weber State University undertook this feasibility study in order to gain a general understanding of College of Science space needs and to determine how best to accommodate those needs in the future. The study scope included:

1. A summary of College of Science existing space and future projected space needs, by department.
2. An evaluation of the existing Science Lab building and its suitability for future use as 1) a science lab building, or 2) a general classroom and office building.
3. A determination of the maximum building size that can be constructed on the site of existing Buildings 3 and 4, while maintaining appropriate scale and massing with immediate campus surroundings.
4. A recommendation regarding an appropriate future use for the Lind Lecture Hall, along with any necessary facility modifications for that use and their associated costs.
5. Planning options to accommodate the space needs of the College of Science, within a \$63 million total project budget. The College currently has space in eight different buildings on the Weber and Davis campuses; the University desires to consolidate College of Science space as much as possible.



1. Existing Science Lab Building
2. Lind Lecture Hall
3. Building 3
4. Building 4
5. Technical Education
6. Engineering Technology
7. Elizabeth Hall

## FEASIBILITY STUDY CONCLUSIONS

1. **Capacity of Buildings 3 & 4 Site.** The location of Buildings 3 and 4 will accommodate a maximum building size of 200,000 GSF on 3.5 floors. A building of this height and footprint will have an appropriate massing for the site, and will not encroach on the existing parking lot to the north.
2. **Lind Lecture Hall.** Lind Lecture Hall should continue to be used by the College of Science as a shared general classroom and lecture hall facility. The building received a minor update within the past few years and will not require any upgrades to continue its current usage.
3. **Existing Science Lab Building.** Early in the study process, the existing 109,000 GSF Science Lab Building was found to be unsuitable for reuse as a laboratory building, due primarily to its limited floor-to-floor height of approximately 13 feet. The team continued to study the building’s potential as a general classroom and office building, but concluded that this also was not feasible, due to the high cost to retrofit the building (approximately \$18.9 million).
4. **College of Science Space Needs.** The College of Science requires a 45% increase in net area to meet current and future needs. It is anticipated that the Lind Lecture Hall will continue to provide shared-use classrooms and lecture halls for the College. A summary of COS current space and space needs is below. Space needs have been determined using net square feet (NSF). Gross square footage (GSF) was calculated using a 65% net-to-gross ratio typical for buildings of this type.

Current space	110,295 NSF	(GSF not available)
Space needs, total	159,673 NSF	245,650 GSF
Space needs, outside Lind Lecture Hall	139,337 NSF	214,364 GSF

5. **Planning Options.** Planning for the College of Science should include the following:
  - a. New science lab building on Buildings 3 & 4 site (130,000 NSF/200,000 GSF).
  - b. Lind Lecture Hall for general classroom & lecture space (approx. 20,000 NSF/31,000 GSF).
  - c. Options for housing 14,000 GSF not accommodated in the above buildings.

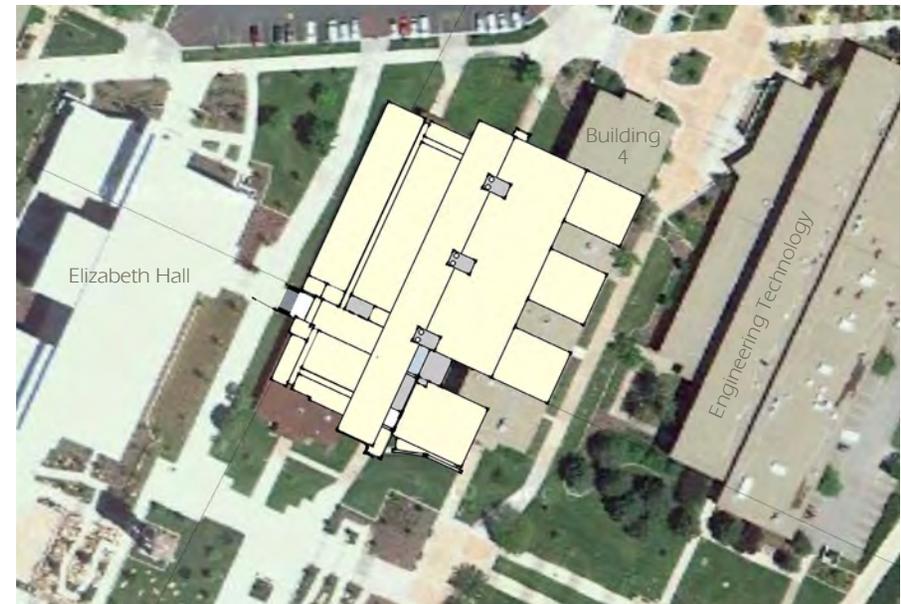
Planning options will be explored in future planning studies or programming efforts.

6. **Preliminary Project Budget.** The preliminary budget for the project is:

Construction cost	\$48 million
Soft costs	\$15 million
Total project cost	\$63 million

7. **Construction Cost Opinion.** The opinion of probable construction cost for a new science lab building is approximately \$235/GSF, or \$47 million for a building of 200,000 GSF. Additional miscellaneous costs raise the total to \$48 million (see Capital Budget Estimate in Section 5.)

Five Preliminary Planning Options were developed prior to the conclusion that the existing Science Lab Building should not be used for College of Science general classrooms and offices. These options are no longer valid, but have been included in Section 4, Planning Options, for reference as some of the planning and space information may be useful in future planning efforts.



The site of Buildings 3 and 4 will accommodate a building of 200,000 GSF.



## 2 Existing Science Lab Building Analysis

## 2: EXISTING SCIENCE LAB BUILDING ANALYSIS

*The existing Science Lab building received a cursory assessment for its suitability for reuse as a science laboratory building or a general classroom/office building. MHTN Architects performed the architectural assessment, and ARW, Colvin and ECE engineers performed the structural, mechanical and electrical assessments.*

The Science Lab building was constructed in 1969. The building has 109,263 gross square feet on six stories (approximately 18,200 GSF per floor). It is located in the northeast portion of the campus, on the foothills of mountains that slope down from east to west. By vehicle, the building is accessed from Edvalson Street, which rings the campus to the north. The building is directly south of the Lind Lecture Hall, which provides lecture and general classroom space for the College of Science and is the location of the University's planetarium and its natural history museum. To the east of the Science Lab building is a surface parking lot; to its west are the Technical Education building (north end) and the Engineering Technology building (south end). The building is a five to ten minute walk from Buildings 3 and 4, which are further down the hillside to the southwest.

Early in the feasibility study process, the assessment concluded that the existing Science Lab building is not suitable for reuse as a science laboratory building, primarily due to its tight floor-to-floor height of approximately 13 feet. This distance does not provide sufficient space for the utilities and infrastructure necessary for a modern science laboratory building.

Later in the study process, after the development of preliminary planning options and cost opinions, the assessment team concluded that the Science Lab building should not be reused as a general classroom/office building for the College of Science. The building has significant deficiencies and if reused would require the following: upgrade of the structural/seismic system; upgrade or replacement

of the mechanical system and main truck line; upgrade or replacement of the electrical system and main trunk line; replacement of the exterior skin; replacement of the exterior windows; replacement of the existing elevator with new ADA-compliant elevators; reconfiguration of toilet rooms, stairs, lobbies, etc. to comply with current codes and the ADA; and full interior retrofit and finish upgrades.

The cost to retrofit the building is approximately \$172/GSF, about 75% of the \$235/GSF cost to construct a new building of this type. (See Section 5, Cost Opinion, for detailed cost information.) The building has other deficiencies which would be difficult to modify, including the configuration of the north mezzanine offices and their connection to the main floor plates, and the lack of opportunity for daylighting interior spaces. The high retrofit costs and other shortcomings indicate that the University would be better served by replacing this building rather than reusing it.

The following pages contain the architectural, structural, mechanical and electrical evaluations of the Science Lab building.



- 1. Existing Science Lab Building
- 2. Lind Lecture Hall
- 3. Building 3
- 4. Building 4
- 5. Technical Education
- 6. Engineering Technology
- 7. Elizabeth Hall



Northeast exterior elevation



Elevator lobby, looking south

## ARCHITECTURAL SYSTEMS EVALUATION REPORT

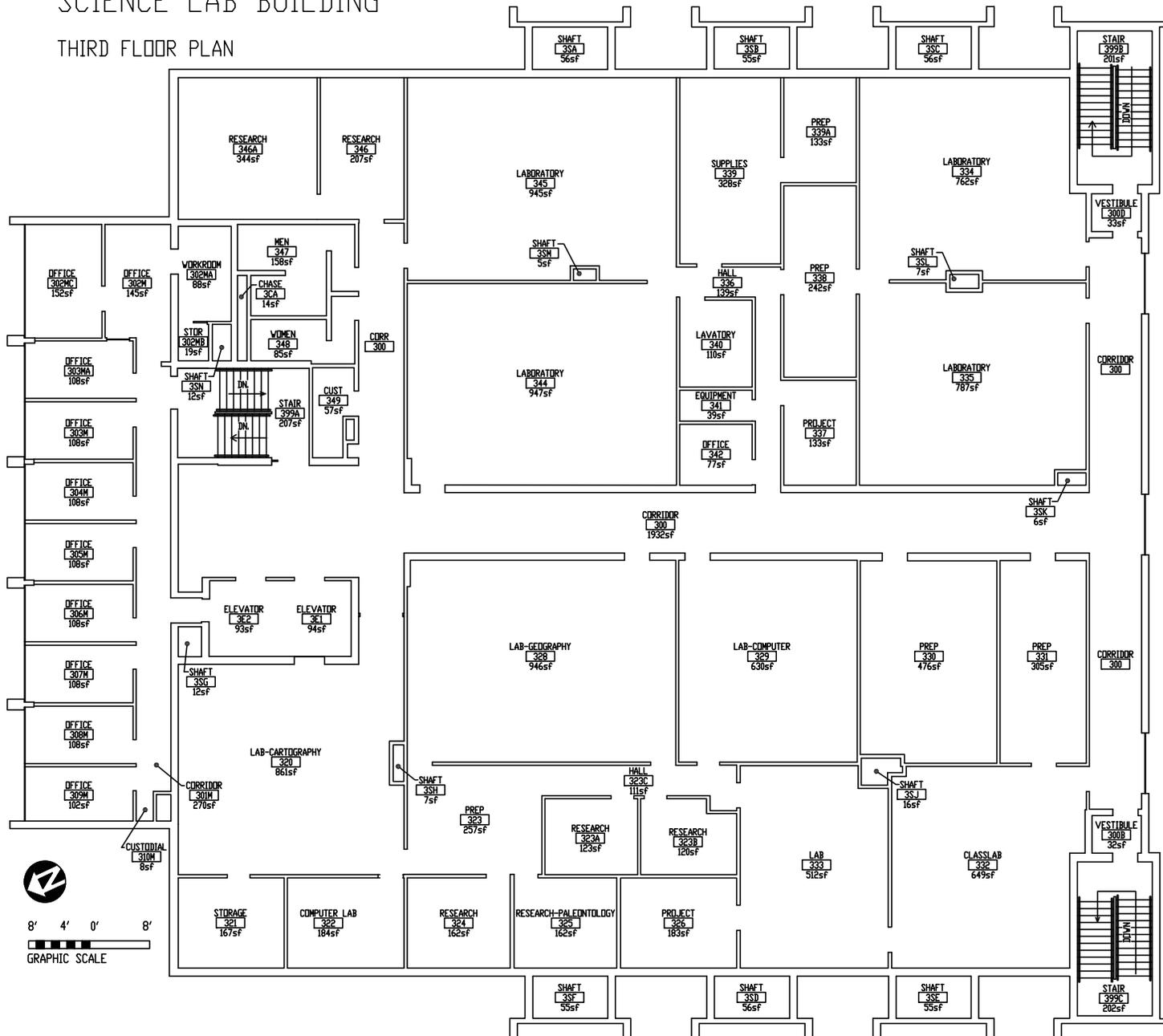
### 1. General Information

- The building was constructed in 1969 and has 109,263 GSF on six levels, approximately 18,200 GSF per floor.
- The building is built on a sloping site with the first level partially below grade.
- The building's structural framing system consists of cast-in-place and pre-cast concrete with reinforced concrete and reinforced concrete masonry infill walls.
- The building's floor and roof systems consist of pre-cast tees and beams with topping slab with some cast-in-place suspended concrete slabs at mezzanine levels.

- The building's floor-to-floor heights are generally 13'-0" throughout, with a floor-to-floor height of 8'-4" at office mezzanine levels.
- The building's exterior cladding is a combination of brick veneer and multi-story stone aggregate faced pre-cast panels.
- The building's general plan layout consists of lab and lab prep/support space bordered by multi-level epistitial mechanical shaft towers on the east and west exterior walls. There are circulation corridors along the south exterior wall and single-loaded corridors serving the office wing along the north wall. A main circulation corridor running north-south down the middle of each level provides access to the elevator lobby, two elevators and an interior stair tower at north end of the corridor.

# SCIENCE LAB BUILDING

## THIRD FLOOR PLAN



Typical floor layout



Typical lab



Office wing corridor, looking west

## 2. Building Interior

- The majority of labs and lab prep/support spaces are located on the interior of the building, with no access to natural day lighting from the building perimeter.
- The building's floor-to-floor heights of 13'-0" throughout the main building and 8'-4" at the office mezzanine levels are very tight, resulting in fully packed horizontal and vertical service distribution space, allowing very little room for future laboratory support infrastructure.
- The building's horizontal and vertical service distribution space is not easily accessible to allow for frequent changes in equipment and technology.

## 3. ADA Compliance

- Laboratory areas do not meet ADA access requirements by providing accessible benches, desks, sinks and fume hoods for 10% of workstations.
- Restrooms do not meet ADA access requirements by providing accessible stalls, urinals and lavatories. Restrooms would have to be reconfigured in order to provide the required turn around space.
- The existing two elevators are not fully ADA compliant.



Southeast exterior elevation



Roof section

#### 4. Building Exterior Envelope

- The white membrane roof is well maintained and appears to be in good condition.
- A secondary roof drainage system has not been provided as required by current codes.
- Metal roof flashings are in good condition throughout.
- Glazing is single pane and does not meet current energy codes.
- The brick veneer is in good condition with only minor mortar joint cracking.
- The use of masonry veneer shelf support angles as required under current codes was not apparent from the exterior and requires verification.
- The multi-story exterior cladding pre-cast panels show some minor cracking indicating panel movement.
- The foundation perimeter, exterior walls and roofing do not have the required insulation to be in compliance with current energy codes.

2.6

#### 5. Building Systems

- The mechanical systems are outdated and should be replaced for system efficiency and reliability.
- Domestic piping and plumbing fixtures need replacement due to age and wear.
- Current fire code requires a fire sprinkler system be installed in the building.
- The 208V electrical distribution system needs replacement.
- An after-hours-access security system is not present and should be considered for all exterior doors.
- Motion sensors on lighting controls are not present and should be considered to meet energy use requirements.
- Ceiling systems contain asbestos which must be abated before the distribution raceways for new systems can be installed.



Central corridor, looking south



South corridor, looking west

#### 6. Needed Upgrades and Recommendations for Building Reuse

- Install a secondary roof drain system.
  - Install a new window glazing system to meet current energy code requirements.
  - Provide interior spaces with natural day lighting where feasible.
  - Provide ADA-compliant restrooms, laboratory workstations and public drinking fountains.
  - Provide at least one new ADA-compliant elevator.
  - Install a total-building fire sprinkler system as required by current fire code.
  - Complete an overall building seismic upgrade as noted by the structural engineer.
  - Complete overall architectural modifications due to new structural seismic upgrade elements.
- Complete mechanical and plumbing system upgrades and/or replacements as noted by the mechanical engineer.
  - Complete electrical system upgrades and/or replacements as noted by the electrical engineer.

## STRUCTURAL

The Science Lab Building is a 110,000 square foot concrete building on the Ogden Campus of Weber State University in Ogden, Utah. The building is a 6 level structure built on a sloping site which causes a portion of the 1st floor to be below grade.

The building was designed and built in 1969. The structural system consists of a combination of cast-in-place and precast concrete as well as reinforced concrete and concrete masonry. The floor and roof systems generally are pre-cast concrete single tees and beams. The hall way floors and office mezzanine floors are constructed of cast-in-place suspended concrete slabs. Cast-in-place concrete columns and beams as well as reinforced concrete walls and concrete masonry walls provide the vertical and lateral structural support. The floors are topped with concrete above the pre-cast tee beams and the original drawings indicate that this topping slab is reinforced with mild steel reinforcing bars. The roof areas are indicated to have insulating concrete topping with the assumption the topping is non-structural and does not contain reinforcing. The structure is supported on continuous wall footings and individual spot footings at columns. The building exterior is clad with pre-cast concrete simulated stone panels and brick veneer.

A partial set of original design drawings was made available for review during this evaluation (see Appendix E). ARW Engineers visited the site on April 19, 2011 and performed a limited visual review of the structure. No destructive material testing and investigation has been performed at this time.

The intent of this study is to perform a limited analysis of the existing building as it currently sits and determine, as much as possible, if there are structural deficiencies in the lateral load resisting elements of the building;

- The lateral load resisting system has been reviewed and analyzed in accordance with ASCE/SEI 31-03 "Seismic Evaluation of Existing Buildings". A Tier 1 Evaluation was conducted. This is the screening phase of the evaluation. During a visit to the building, ASCE/SEI 31-03 checklists were completed. These checklists indicate whether various aspects of the building are compliant/non-compliant with ASCE/SEI criteria. The checklists are divided into structural, nonstructural, and foundations sections and are included as an appendix to this report.

## 2. Site Hazards

**Table 3- 1: SOILS INFORMATION**

Description	Unknown
Soil Type:	Default value per ASCE 31 (Site Class D)
Soil Stability:	Unknown
Reference:	Default value per ASCE 31

**Table 3- 2: SEISMIC HAZARD**

Hazard		Probability of Exceedance 2% in 5 years
Spectral Acceleration <sup>1</sup>	0.2 sec period	1.405 g
	1.0 sec period	0.882 g
Vulnerability <sup>2</sup> :	Fault Rupture:	Yes
	Landslide:	No
	Liquefaction	Yes (Moderate)

1. FEMA Maps, Reference B1

2. Utah Geologic Survey Maps

### Comments:

The Utah Quaternary Fault and Fold Map available online at [www.ugs.state.ut.us](http://www.ugs.state.ut.us) was used to determine the fault rupture vulnerability for this site. This site is located relatively close to the Weber Segment of the Wasatch Fault. Other maps available at this web site were also used to determine the landslide and liquefaction potential.

## 3. Evaluation Findings

- The ASCE/SEI 31 analysis indicates that the existing building lacks an effective lateral force resisting system required to resist the earthquake forces that the building is expected to see during a design earthquake. It indicates that the concrete shear walls that provide lateral stability in the east/west direction exceed the recommended stress limits. The analysis also indicates that the masonry shear walls that provide lateral stability in the north/south direction exceed the recommended stress limits. These walls were evaluated for the life safety objective as defined in ASCE/SEI 31.

- The office mezzanine levels are offset from the main lab floor diaphragms creating a lack of diaphragm continuity.
- The sixth level walls steps back from the typical building perimeter creating a discontinuity in vertical elements resisting lateral forces.
- The concrete walls surrounding the stair shafts cause the building to be more stiff at the south end. This stiffness non-uniformity causes a torsional irregularity that is not allowed by this Tier 1 evaluation procedure.
- A continuous load path for lateral loads does not exist. Floor and roof structures adjacent to the existing shear walls are not adequately connected to the concrete shear walls to transfer expected earthquake loads from the diaphragms to the walls. Experiences in seismic events have shown that pre-cast systems can be lacking in strength due to connection issues. The drawings do not detail specific diaphragm connections to the shear walls or other elements.
- Insufficient diaphragm strength is a concern particularly at the roof level. The drawings indicate the roof topping to be comprised of insulating concrete with no indication of reinforcement. As a result, the roof diaphragm will rely on connections between individual tee beam panels which does not suffice as an adequate horizontal diaphragm to transfer seismic loads to shear walls.
- The building is supported on typical spread and continuous concrete footings. Although the building does not show evidence of settlement, it is possible that the overturning forces generated at the individual shear wall elements may exceed the allowable capacity.
- Exterior stone cladding panels and other precast elements appear to be sufficiently anchored to the structure for gravity loads. However, there are several areas where these panels have cracked and shifted slightly. There is little detail information on the drawings relative to the attachment of these panels to the primary structural system. Based on experience with similar buildings, these elements do not appear to be adequately attached to the building system to resist earthquake forces. Strength and ductility are not expected to be sufficient to resist those forces.
- Mechanical, plumbing, and electrical components within the mechanical rooms and interstitial spaces are not adequately braced to the structure to meet the current building code requirements for these elements.
- Other miscellaneous non-structural components exist within the building. These components are not adequately braced to the structure to prevent tipping or falling during an earthquake. Examples include, but are not limited to, storage shelves, filing cabinets, book shelves, table top equipment, vending machines, light fixtures, etc.
- Based on the age of the building, the concrete columns are likely under-reinforced. The lateral ties or confinement steel are probably inadequate to provide necessary ductility in a seismic event. This item is not included in the ASCE/SEI checklists but it should be noted as an area of interest for a future, more detailed, investigation.

#### 4. Recommendations

The ASCE/SEI Tier 1 analysis is the first step in a complete building structural evaluation. By proceeding to the next stages of the analysis, Tier 2 and Tier 3, more detailed structural analysis are completed and potential upgrade scenarios along with cost estimates are provided. ARW Engineers is available and capable of providing the next stages of the evaluation.

During the next phase of an evaluation, a more in-depth site investigation protocol could be implemented to determine existing conditions that are currently unknown due to the lack of construction documents as described in the executive summary.

#### 5. Cost Estimate

We estimate that the costs associated with completing the structural seismic upgrade measures listed in this report will be between \$3.9 million and \$4.9 million. This cost does not include costs for re-roofing, architectural modifications due to new structural elements, or mechanical and electrical system upgrades as these items are outside our area of expertise. These items are included in other areas in the report.

#### 6. References

##### A. Guideline Documents

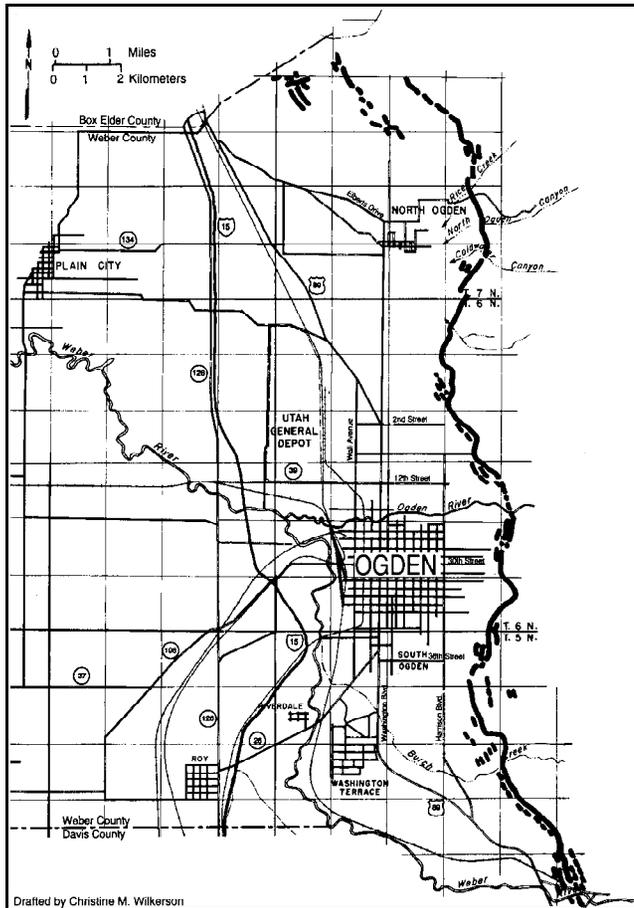
1. American Society of Civil Engineers – Structural Engineering Institute, Seismic Evaluation of Existing Buildings, ASCE/SEI Standard 31-03, 2003.

##### B. Geotechnical Information

1. United States Geological Survey, NEHRP Design Map Set (Maps 1 through 32), 10% in 50 year, 2% in 50 year and the Maximum Considered Earthquake 0.2 second spectral acceleration (5% damping), BSSC Project 97, updated 2003.

### EARTHQUAKE FAULT MAP OF A PORTION OF WEBER COUNTY, UTAH

UGS Public Information Series 1



Known trace of fault with evidence of Holocene (about 10,000 years ago to present) movement.

Dashed where existence is uncertain or inferred.

This map for general reference only. Detailed maps are available at the Weber County Planning Office.

Location of faults compiled from U.S. Geological Survey:  
 I-2199-1993  
 A.R. Nelson and S.F. Personius  
 I-1979-1990  
 S.F. Personius

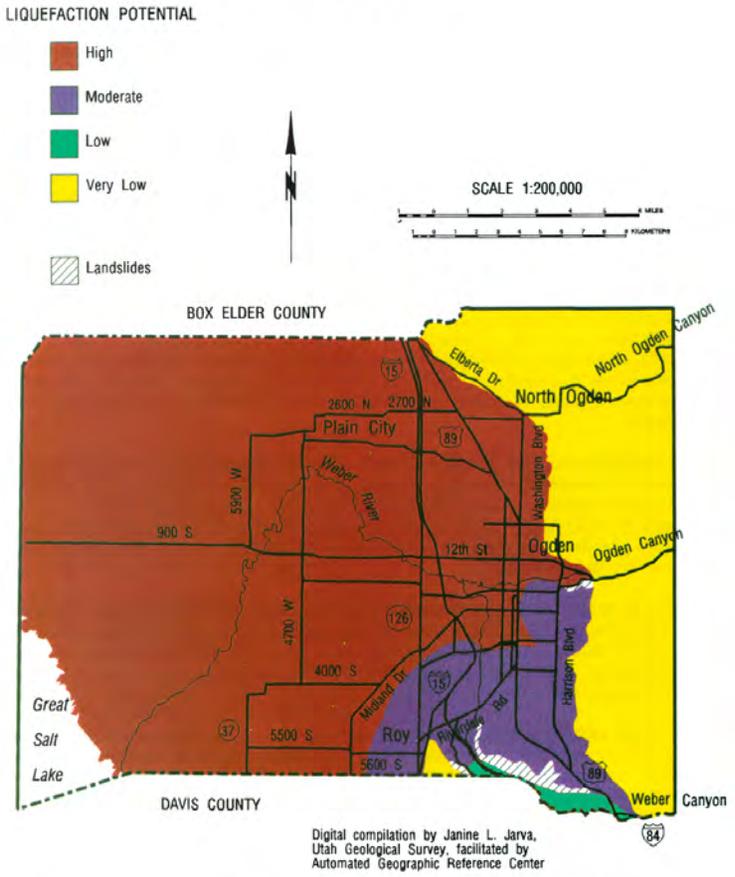
Drafted by Christine M. Wilkerson

UTAH GEOLOGICAL SURVEY  
 Richard Allis, Director  
 1594 W. North Temple, Suite 3110  
 Salt Lake City, Utah 84114-6100

The Utah Geological Survey is a division within the Department of Natural Resources

### LIQUEFACTION-POTENTIAL MAP FOR A PART OF WEBER COUNTY, UTAH

UTAH GEOLOGICAL SURVEY  
 Public Information Series 27  
 August 1994



This map is for general reference only and was modified from Anderson, L.R., Keaton, J.R., and Bay, J.A., 1994. Liquefaction potential map for the northern Wasatch Front, Utah: Utah Geological Survey Contract Report 94-5, 150 p., scale 1:48,000. Copies of this report are available at the Utah Geological Survey.

Digital compilation by Janine L. Jarva,  
 Utah Geological Survey, facilitated by  
 Automated Geographic Reference Center

ASCE 31\* Geologic Site Hazards and Foundation Checklist

C	NC	N/A	Comments
<b>GEOLOGIC SITE HAZARDS</b>			
The following statements only need be completed for buildings in levels of high or moderate seismicity.			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LIQUEFACTION: Liquefaction-susceptible, saturated, loose granular soils that could jeopardize the building's seismic performance shall not exist in the foundation soils at depths within 50 feet under the building for Life Safety and Immediate Occupancy. Tier 2 Sec 4.7.1.1
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SLOPE FAILURE: The building site shall be sufficiently remote from potential earthquake-induced slope failures or rockfalls to be unaffected by such failures or shall be capable of accommodating any predicted movements without failure. Tier 2 Sec 4.7.1.2
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SURFACE FAULT RUPTURE: Surface fault rupture and surface displacement at the building site is not anticipated. Tier 2 Sec 4.7.1.3
<b>CONDITIONS OF FOUNDATIONS</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FOUNDATION PERFORMANCE: There shall be no evidence of excessive foundation movement such as settlement or heave that would affect the integrity or strength of the structure. Tier 2 Sec 4.7.2.1
The following statement only need be completed for buildings in levels of high or moderate seismicity being evaluated to the Immediate Occupancy Performance Level.			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DETERIORATION: There shall not be evidence that foundation elements have deteriorated due to corrosion, sulfate attack, material breakdown, or other reasons in a manner that would affect the integrity or strength of the structure. Tier 2 Sec 4.7.2.2
<b>CAPACITY OF FOUNDATIONS</b>			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	POLE FOUNDATIONS: Pole foundations shall have a minimum embedment depth of 4 ft for Life Safety and Immediate Occupancy. Tier 2 Sec 4.7.3.1
The following statements only need be completed for buildings in levels of moderate seismicity being evaluated to the Immediate Occupancy Performance Level and for buildings in levels of high seismicity.			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OVERTURNING: The ratio of the horizontal dimension of the lateral-force-resisting system at the foundation level to the building height (base/height) shall be greater than 0.6S <sub>w</sub> . Tier 2 Sec 4.7.3.2
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TIES BETWEEN FOUNDATION ELEMENTS: The foundation shall have ties adequate to resist seismic forces where footings, piles, and piers are not restrained by beams, slabs, or soils classified as Class A, B, or C. (Section 3.5.2.3.1) Tier 2 Sec 4.7.3.3

<b>CAPACITY OF FOUNDATIONS</b>			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DEEP FOUNDATIONS: Piles and piers shall be capable of transferring the lateral forces between the structure and the soil. This statement shall apply to the Immediate Occupancy Performance Level only. Tier 2 Sec 4.7.3.4
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SLOPING SITES: The difference in foundation embedment depth from one side of the building to another shall not exceed one story in height. This statement shall apply to the Immediate Occupancy Performance Level only. Tier 2 Sec 4.7.3.5

\* – Checklist statements are based on the second public ballot version of ASCE 31. This checklist will be updated as revisions to ASCE 31.

ASCE 31\* Basic Structural Checklist Concrete Shear Wall Buildings with Rigid Diaphragms

C	NC	N/A	Comments
<b>BUILDING SYSTEM</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LOAD PATH: The structure shall contain a minimum of one complete load path for Life Safety and Immediate Occupancy for seismic force effects from any horizontal direction that serves to transfer the inertial forces from the mass to the foundation. Tier 2 Sec 4.3.1.1
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MEZZANINES: Interior mezzanine levels shall be braced independently from the main structure, or shall be anchored to the lateral-force-resisting elements of the main structure. Tier 2 Sec 4.3.1.3
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WEAK STORY: The strength of the lateral-force-resisting system in any story shall not be less than 80% of the strength in an adjacent story above or below for Life-Safety and Immediate Occupancy. Tier 2 Sec 4.3.2.1
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOFT STORY: The stiffness of the lateral-force-resisting-system in any story shall not be less than 70% of the lateral-force-resisting system stiffness in an adjacent story above or below, or less than 80% of the average lateral-force-resisting system stiffness of the three stories above or below for Life-Safety and Immediate Occupancy. Tier 2 Sec 4.3.2.2
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GEOMETRY: There shall be no changes in horizontal dimension of the lateral-force-resisting system of more than 30% in a story relative to adjacent stories for Life Safety and Immediate Occupancy, excluding one-story penthouses and mezzanines. Tier 2 Sec 4.3.2.3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VERTICAL DISCONTINUITIES: All vertical elements in the lateral-force-resisting system shall be continuous to the foundation. Tier 2 Sec 4.3.2.4
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MASS: There shall be no change in effective mass of more than 50% from one story to the next for Life Safety and Immediate Occupancy. Light roofs, penthouses and mezzanines need not be considered. Tier 2 Sec 4.3.2.5
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TORSION: The estimated distance between the story center of mass and the story center of rigidity shall be less than 20% of the building width in either plan dimension for Life Safety and Immediate Occupancy. Tier 2 Sec 4.3.2.6
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DETERIORATION OF CONCRETE: There shall be no visible deterioration of concrete or reinforcing steel in any of the vertical- or lateral-force-resisting elements. Tier 2 Sec 4.3.3.4
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	POST-TENSIONING ANCHORS: There shall be no evidence of corrosion or spalling in the vicinity of post-tensioning or end fittings. Coil anchors shall not have been used. Tier 2 Sec 4.3.3.5
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CONCRETE WALL CRACKS: All existing diagonal cracks in wall elements shall be less than 1/8" for Life Safety and 1/16" for Immediate Occupancy, shall not be concentrated in one location, and shall not form an X pattern. Tier 2 Sec 4.3.3.9

**Interior office mezzanines are offset from main lab floor levels. Mezzanine anchorage into shear walls is inadequate.**

**6<sup>th</sup> floor shear walls do not line up with shear walls below on east, west, and south side of building.**

**Stair shafts at south end of building are creating stiffness that is moving the center of rigidity beyond the limits of this check.**

C	NC	N/A	Comment
<b>LATERAL-FORCE-RESISTING SYSTEM</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	COMPLETE FRAMES: Steel or concrete frames classified as secondary components shall form a complete vertical load carrying system. Tier 2 Sec 4.4.1.6.1
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	REDUNDANCY: The number of lines of shear walls in each principal direction shall be greater than or equal to 2 for Life Safety and Immediate Occupancy. Tier 2 Sec 4.4.2.1.1
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SHEAR STRESS CHECK: The shear stress in the concrete shear walls, calculated using the Quick Check procedure of Section 3.5.3.3, shall be less than 100 psi or $2\sqrt{f'_c}$ for Life Safety and Immediate Occupancy. Tier 2 Sec 4.4.2.2.1
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	REINFORCING STEEL: The ratio of reinforcing steel area to gross concrete area shall be not less than 0.0015 in the vertical direction and 0.0025 in the horizontal direction for Life Safety and Immediate Occupancy. The spacing of reinforcing steel shall be equal to or less than 18" for Life Safety and Immediate Occupancy. Tier 2 Sec 4.4.2.2.2
<b>CONNECTIONS</b>			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TRANSFER TO SHEAR WALLS: Diaphragms shall be connected for transfer of loads to the shear walls for Life Safety and the connections shall be able to develop the lesser of the shear strength of the walls or diaphragms for Immediate Occupancy. Tier 2 Sec 4.6.2.1
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FOUNDATION DOWELS: Wall reinforcement shall be doweled into the foundation for Life Safety and the dowels shall be able to develop the lesser of the strength of the walls or the uplift capacity of the foundation for Immediate Occupancy. Tier 2 Sec 4.6.3.5

\* – Checklist statements are based on the second public ballot version of ASCE 31. This checklist will be updated as revisions are made to /

ASCE 31\* Supplemental Structural Checklist Concrete Shear Wall Buildings with Rigid Diaphragms

C	NC	N/A	Comments
<b>LATERAL-FORCE-RESISTING SYSTEM</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DEFLECTION COMPATIBILITY: Secondary components shall have the shear capacity to develop the flexural strength of the components for Life Safety and shall meet the requirements of 4.4.1.4.9, 4.4.1.4.10, 4.4.1.4.11, 4.4.1.4.12 and 4.4.1.4.15 for Immediate Occupancy. Tier 2 Sec 4.4.1.6.2
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	FLAT SLABS: Flat slabs/plates not part of lateral-force-resisting system shall have continuous bottom steel through the column joints for Life Safety. Tier 2 Sec 4.4.1.6.3
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	COUPLING BEAMS: The stirrups in coupling beams over means of egress shall be spaced at or less than d/2 and shall be anchored into the confined core of the beam with hooks of 135° or more for Life Safety. All coupling beams shall comply with the requirements above and shall have the capacity in shear to develop the uplift capacity of the adjacent wall for Immediate Occupancy. Tier 2 Sec 4.4.2.2.3
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	OVERTURNING: All shear walls shall have aspect ratios less than 4 to 1. Wall piers need not be considered. This statement shall apply to the Immediate Occupancy Performance Level only. Tier 2 Sec 4.4.2.2.4
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CONFINEMENT REINFORCING: For shear walls with aspect ratios greater than 2 to 1, the boundary elements shall be confined with spirals or ties with spacing less than 8d <sub>s</sub> . This statement shall apply to the Immediate Occupancy Performance Level only. Tier 2 Sec 4.4.2.2.5
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REINFORCING AT OPENINGS: There shall be added trim reinforcement around all wall openings greater than three times the thickness of the wall. This statement shall apply to the Immediate Occupancy Performance Level only. Tier 2 Sec 4.4.2.2.6
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	WALL THICKNESS: Thickness of bearing walls shall not be less than 1/25 the unsupported height or length, whichever is shorter, nor less than 4". This statement shall apply to the Immediate Occupancy Performance Level only. Tier 2 Sec 4.4.2.2.7
<b>DIAPHRAGMS</b>			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DIAPHRAGM CONTINUITY: The diaphragms shall not be composed of split-level floors and shall not have expansion joints. Tier 2 Sec 4.5.1.1 <b>Office Mezzanine floors are offset from main floor diaphragms at levels 3 and 5.</b>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OPENINGS AT SHEAR WALLS: Diaphragm openings immediately adjacent to the shear walls shall be less than 25% of the wall length for Life Safety and 15% of the wall length for Immediate Occupancy. Tier 2 Sec 4.5.1.4
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PLAN IRREGULARITIES: There shall be tensile capacity to develop the strength of the diaphragm at re-entrant corners or other locations of plan irregularities. This statement shall apply to the Immediate Occupancy Performance Level only. Tier 2 Sec 4.5.1.7

C	NC	N/A	Comments
<b>DIAPHRAGMS</b>			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DIAPHRAGM REINFORCEMENT AT OPENINGS: There shall be reinforcing around all diaphragm openings larger than 50% of the building width in either major plan dimension. This statement shall apply to the Immediate Occupancy Performance Level only. Tier 2 Sec 4.5.1.8
<b>CONNECTIONS</b>			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	UPLIFT AT PILE CAPS: Pile caps shall have top reinforcement and piles shall be anchored to the pile caps for Life Safety, and the pile cap reinforcement and pile anchorage shall be able to develop the tensile capacity of the piles for Immediate Occupancy. Tier 2 Sec 4.6.3.10

\* – Checklist statements are based on the second public ballot version of ASCE 31. This checklist will be updated as revisions are made to ASCE 31.

ASCE 31\* Basic Structural Checklist Concrete Frames with Infill Masonry Shear Walls and Rigid Diaphragms

C	NC	N/A	Comments
<b>BUILDING SYSTEM</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LOAD PATH: The structure shall contain a minimum of one complete load path for Life Safety and Immediate Occupancy for seismic force effects from any horizontal direction that serves to transfer the inertial forces from the mass to the foundation. Tier 2 Sec 4.3.1.1
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MEZZANINES: Interior mezzanine levels shall be braced independently from the main structure, or shall be anchored to the lateral-force-resisting elements of the main structure. Tier 2 Sec 4.3.1.3
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WEAK STORY: The strength of the lateral-force-resisting system in any story shall not be less than 80% of the strength in an adjacent story above or below for Life-Safety and Immediate Occupancy. Tier 2 Sec 4.3.2.1
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOFT STORY: The stiffness of the lateral-force-resisting-system in any story shall not be less than 70% of the lateral-force-resisting system stiffness in an adjacent story above or below, or less than 80% of the average lateral-force-resisting system stiffness of the three stories above or below for Life Safety and Immediate Occupancy. Tier 2 Sec 4.3.2.2
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GEOMETRY: There shall be no changes in horizontal dimension of the lateral-force-resisting system of more than 30% in a story relative to adjacent stories for Life Safety and Immediate Occupancy, excluding one-story penthouses and mezzanines. Tier 2 Sec 4.3.2.3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VERTICAL DISCONTINUITIES: All vertical elements in the lateral-force-resisting system shall be continuous to the foundation. Tier 2 Sec 4.3.2.4
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MASS: There shall be no change in effective mass of more than 50% from one story to the next for Life Safety and Immediate Occupancy. Light roofs, penthouses and mezzanines need not be considered. Tier 2 Sec 4.3.2.5
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TORSION: The estimated distance between the story center of mass and the story center of rigidity shall be less than 20% of the building width in either plan dimension for Life Safety and Immediate Occupancy. Tier 2 Sec 4.3.2.6
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DETERIORATION OF CONCRETE: There shall be no visible deterioration of concrete or reinforcing steel in any of the vertical- or lateral-force-resisting elements. Tier 2 Sec 4.3.3.4
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MASONRY UNITS: There shall be no visible deterioration of masonry units. Tier 2 Sec 4.3.3.7
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MASONRY JOINTS: The mortar shall not be easily scraped away from the joints by hand with a metal tool, and there shall be no areas of eroded mortar. Tier 2 Sec 4.3.3.8
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CRACKS IN INFILL WALLS: There shall be no existing diagonal cracks in the infilled walls that extend throughout a panel greater than 1/8 inch for Life Safety and 1/16 inch for Immediate Occupancy. Tier 2 Sec 4.3.3.12

C	NC	N/A	Comments
<b>BUILDING SYSTEM</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CRACKS IN BOUNDARY COLUMNS: There shall be no existing diagonal cracks wider than 1/8 inch for Life Safety and 1/16 inch for Immediate Occupancy in concrete columns that encase masonry infills. Tier 2 Sec 4.3.3.13
<b>LATERAL-FORCE-RESISTING SYSTEM</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	REDUNDANCY: The number of lines of shear walls in each principal direction shall be greater than or equal to 2 for Life Safety and Immediate Occupancy. Tier 2 Sec 4.4.2.1.1
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SHEAR STRESS CHECK: The shear stress in the reinforced masonry shear walls, calculated using the Quick Check procedure of Section 3.5.3.3, shall be less than 70 psi for Life Safety and Immediate Occupancy. Tier 2 Sec 4.4.2.4.1
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SHEAR STRESS CHECK: The shear stress in the unreinforced masonry shear walls, calculated using the Quick Check procedure of Section 3.5.3.3, shall be less than 30 psi for clay units and 70 psi for concrete units for Life Safety and Immediate Occupancy. Tier 2 Sec 4.4.2.5.1
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WALL CONNECTIONS: Masonry shall be in full contact with frame for Life Safety and Immediate Occupancy. Tier 2 Sec 4.4.2.6.1
<b>CONNECTIONS</b>			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TRANSFER TO SHEAR WALLS: Diaphragms shall be connected for transfer of loads to the shear walls for Life Safety and the connections shall be able to develop the lesser of the shear strength of the walls or diaphragms for Immediate Occupancy. Tier 2 Sec 4.6.2.1
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CONCRETE COLUMNS: All concrete columns shall be doweled into the foundation for Life Safety, and the dowels shall be able to develop the tensile capacity of reinforcement in columns of lateral-force-resisting system for Immediate Occupancy. Tier 2 Sec 4.6.3.2

\* - Checklist statements are based on the second public ballot version of ASCE 31. This checklist will be updated as revisions are made to ASCE 31.

ASCE 31\* Supplemental Structural Checklist Concrete Frames with Infill Masonry Shear Walls and Rigid Diaphragms

C	NC	N/A	Comments
<b>LATERAL-FORCE-RESISTING SYSTEM</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DEFLECTION COMPATIBILITY: Secondary components shall have the shear capacity to develop the flexural strength of the components for Life Safety and shall meet the requirements of 4.4.1.4.9, 4.4.1.4.10, 4.4.1.4.11, 4.4.1.4.12 and 4.4.1.4.15 for Immediate Occupancy. Tier 2 Sec 4.4.1.6.2
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	FLAT SLABS: Flat slabs/plates not part of lateral-force-resisting system shall have continuous bottom steel through the column joints for Life Safety. Tier 2 Sec 4.4.1.6.3
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REINFORCING AT OPENINGS: All wall openings that interrupt rebar shall have trim reinforcing on all sides. This statement shall apply to the Immediate Occupancy Performance Level only. Tier 2 Sec 4.4.2.4.3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PROPORTIONS: The height-to-thickness ratio of the infill walls at each story shall be less than 9 for Life Safety in levels of high seismicity, 13 for Immediate Occupancy in levels of moderate seismicity, and 8 for Immediate Occupancy in levels of high seismicity. Tier 2 Sec 4.4.2.6.2
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOLID WALLS: The infill walls shall not be of cavity construction. Tier 2 Sec 4.4.2.6.3
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	INFILL WALLS: The infill walls shall be continuous to the soffits of the frame beams and to the columns to either side. Tier 2 Sec 4.4.2.6.4
<b>DIAPHRAGMS</b>			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DIAPHRAGM CONTINUITY: The diaphragms shall not be composed of split-level floors and shall not have expansion joints. Tier 2 Sec 4.5.1.1
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OPENINGS AT SHEAR WALLS: Diaphragm openings immediately adjacent to the shear walls shall be less than 25% of the wall length for Life Safety and 15% of the wall length for Immediate Occupancy. Tier 2 Sec 4.5.1.4
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PLAN IRREGULARITIES: There shall be tensile capacity to develop the strength of the diaphragm at re-entrant corners or other locations of plan irregularities. This statement shall apply to the Immediate Occupancy Performance Level only. Tier 2 Sec 4.5.1.7
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DIAPHRAGM REINFORCEMENT AT OPENINGS: There shall be reinforcing around all diaphragm openings larger than 50% of the building width in either major plan dimension. This statement shall apply to the Immediate Occupancy Performance Level only. Tier 2 Sec 4.5.1.8

Height to thickness ratio is approx. 10 for the 12" shear walls.

C	NC	N/A	Comments
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**CONNECTIONS**

- UPLIFT AT PILE CAPS: Pile caps shall have top reinforcement and piles shall be anchored to the pile caps for Life Safety, and the pile cap reinforcement and pile anchorage shall be able to develop the tensile capacity of the piles for Immediate Occupancy. Tier 2 Sec 4.6.3.10

\* – Checklist statements are based on the second public ballot version of ASCE 31. This checklist will be updated as revisions are made to ASCE 31.

ASCE 31 \* Basic Nonstructural Component Checklist

C	NC	N/A	Comments
<b>PARTITIONS</b>			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	UNREINFORCED MASONRY: Unreinforced masonry or hollow clay tile partitions shall be braced at a spacing of equal to or less than 10 feet in levels of low and moderate seismicity and 6 feet in levels of high seismicity. Tier 2 Sec 4.8.1.1 <b>Partitions not adequately attached to diaphragm for support</b>
<b>CEILING SYSTEMS</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SUPPORT: The integrated suspended ceiling system shall not be used to laterally support the tops of gypsum board, masonry, or hollow clay tile partitions. Gypsum board partitions need not be evaluated where only the Basic Nonstructural Checklist is required by Table 3-2. Tier 2 Sec 4.8.2.1
<b>LIGHT FIXTURES</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EMERGENCY LIGHTING: Emergency lighting shall be anchored or braced to prevent falling during an earthquake. Tier 2 Sec 4.8.3.1
<b>CLADDING AND GLAZING</b>			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CLADDING ANCHORS: Cladding components weighing more than 10 psf shall be mechanically anchored to the exterior wall framing at a spacing equal to or less than 4 ft. A spacing of up to 6 ft is permitted where only the Basic Nonstructural Checklist is required by Table 3-2. Tier 2 Sec 4.8.4.1 <b>Cladding anchorage is not known at this time. Cracks in panels indicate a potential for inadequate anchorage.</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DETERIORATION: There shall be no evidence of deterioration, damage or corrosion in any of the connection elements. Tier 2 Sec 4.8.4.2
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CLADDING ISOLATION: For moment frame buildings of steel or concrete, panel connections shall be detailed to accommodate an interstory drift ratio of 0.02. Panel connection detailing for an interstory drift ratio of 0.01 is permitted where only the Basic Nonstructural Checklist is required by Table 3-2. Tier 2 Sec 4.8.4.3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MULTISTORY PANELS: For multistory panels attached at each floor level, panel connections shall be detailed to accommodate an interstory drift ratio of 0.02. Panel connection detailing for an interstory drift ratio of 0.01 is permitted where only the Basic Nonstructural Checklist is required by Table 3-2. Tier 2 Sec 4.8.4.4 <b>Cladding anchorage is not known at this time.</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BEARING CONNECTIONS: Where bearing connections are required, there shall be a minimum of two bearing connections for each wall panel. Tier 2 Sec 4.8.4.5
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	INSERTS: Where inserts are used in concrete connections, the inserts shall be anchored to reinforcing steel or other positive anchorage. Tier 2 Sec 4.8.4.6

C	NC	N/A	Comments
<b>CLADDING AND GLAZING</b>			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PANEL CONNECTIONS: Exterior cladding panels shall be anchored out-of-plane with a minimum of 4 connections for each wall panel. Two connections per wall panel are permitted where only the Basic Nonstructural Checklist is required by Table 3-2. Tier 2 Sec 4.8.4.7 <b>Cladding anchorage is not known at this time.</b>
<b>MASONRY VENEER</b>			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SHELF ANGLES: Masonry veneer shall be supported by shelf angles or other elements at each floor 30 feet above ground for Life Safety and above the first floor for Immediate Occupancy. Tier 2 Sec 4.8.5.1 <b>Plans do not indicate the use of shelf angles.</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TIES: Masonry veneer shall be connected to the back-up with corrosion-resistant ties. The ties shall have a spacing of equal to or less than 24" with a minimum of one tie for every 2-2/3 square feet. A spacing of up to 36" is permitted where only the Basic Nonstructural Checklist is required by Table 3-2. Tier 2 Sec 4.8.5.2 <b>Veneer anchorage is not known at this time.</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WEAKENED PLANES: Masonry veneer shall be anchored to the back-up adjacent to weakened planes such as at the locations of flashing. Tier 2 Sec 4.8.5.3 <b>Veneer anchorage is not known at this time.</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DETERIORATION: There shall be no evidence of deterioration, damage or corrosion in any of the connection elements. Tier 2 Sec 4.8.5.4
<b>PARAPETS, CORNICES, ORNAMENTATION, AND APPENDAGES</b>			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	URM PARAPETS: There shall be no laterally unsupported unreinforced masonry parapets or cornices with height-to-thickness ratios greater than 1.5. A height-to-thickness ratio of up to 2.5 is permitted where only the Basic Nonstructural Checklist is required by Table 3-2. Tier 2 Sec 4.8.8.1 <b>Plans indicate that the parapets are built of reinforced concrete walls.</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CANOPIES: Canopies located at building exits shall be anchored at a spacing of 6 feet. An anchorage spacing of up to 10 feet is permitted where only the Basic Nonstructural Checklist is required by Table 3-2. Tier 2 Sec 4.8.8.2 <b>Plans do not show canopy anchorage details.</b>
<b>MASONRY CHIMNEYS</b>			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	URM CHIMNEYS: No unreinforced masonry chimney shall extend above the roof surface more than twice the least dimension of the chimney. A height above the roof surface of up to three times the least dimension of the chimney is permitted where only the Basic Nonstructural Checklist is required by Table 3-2. Tier 2 Sec 4.8.9.1

ASCE 31\* Basic Nonstructural Component Checklist, *continued*

C	NC	N/A	Comments
<b>STAIRS</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	URM WALLS: Walls around stair enclosures shall not consist of unbraced hollow clay tile or unreinforced masonry with a height-to-thickness ratio greater than 12-to-1. A height-to-thickness ratio of up to 15-to-1 is permitted where only the Basic Nonstructural Checklist is required by Table 3-2. Tier 2 Sec 4.8.10.1 <b>Stair walls appear to be reinforced concrete walls.</b>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	STAIR DETAILS: In moment frame structures, the connection between the stairs and the structure shall not rely on shallow anchors in concrete. Alternatively, the stair details shall be capable of accommodating the drift calculated using the Quick Check Procedure of Section 3.5.3.1 without inducing tension in the anchors. Tier 2 Sec 4.8.10.2
<b>BUILDING CONTENTS AND FURNISHING</b>			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TALL NARROW CONTENTS: Contents over four feet in height with a height-to-depth ratio greater than 3-to-1 shall be anchored to the floor slab or adjacent structural walls. A height-to-depth ratio of up to 4-to-1 is permitted where only the Basic Nonstructural Checklist is required by Table 3-2. Tier 2 Sec 4.8.11.1 <b>Various items such as Storage shelving, cupboards, etc. are not anchored to the structure.</b>
<b>MECHANICAL AND ELECTRICAL EQUIPMENT</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EMERGENCY POWER: Equipment used as part of an emergency power system shall be mounted to maintain continued operation after an earthquake. Tier 2 Sec.8.12.1
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HAZARDOUS MATERIAL EQUIPMENT: HVAC or other equipment containing hazardous material shall not have failed or weak supply lines or unstable isolation supports. Tier 2 Sec 4.8.12.2
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DETERIORATION: There shall be no evidence of deterioration, damage or corrosion in any of the anchorage or supports of mechanical or electrical equipment. Tier 2 Sec 4.8.12.3
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ATTACHED EQUIPMENT: Equipment weighing over 20 lb that is attached to ceilings, walls, or other supports 4 ft above the floor level shall be braced. Tier 2 Sec 4.8.12.4
<b>PIPING</b>			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FIRE SUPPRESSION PIPING: Fire suppression piping shall be anchored and braced in accordance with <i>NFPA-13</i> (NFPA, 1996). Tier 2 Sec 4.8.13.1
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FLEXIBLE COUPLINGS: Fluid, gas and fire suppression piping shall have flexible couplings. Tier 2 Sec 4.8.13.2

C	NC	N/A	Comments
<b>HAZARDOUS MATERIALS STORAGE AND DISTRIBUTION</b>			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOXIC SUBSTANCES: Toxic and hazardous substances stored in breakable containers shall be restrained from falling by latched doors, shelf lips, wires, or other methods. Tier 2 Sec 4.8.15.1

\* – Checklist statements are based on the second public ballot version of ASCE 31. This checklist will be updated as revisions are made to ASCE 31.

ASCE 31\* Intermediate Nonstructural Component Checklist

C	NC	N/A	Comments
<b>CEILING SYSTEMS</b>			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	LAY-IN TILES: Lay-in tiles used in ceiling panels located at exits and corridors shall be secured with clips. Tier 2 Sec 4.8.2.2
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	INTEGRATED CEILINGS: Integrated suspended ceilings at exits and corridors or weighing more than 2 lb/ft <sup>2</sup> shall be laterally restrained with a minimum of 4 diagonal wires or rigid members attached to the structure above at a spacing of equal to or less than 12 ft. Tier 2 Sec 4.8.2.3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUSPENDED LATH AND PLASTER: Ceilings consisting of suspended lath and plaster or gypsum board shall be attached for each 12 square feet of area. Tier 2 Sec 4.8.2.4
<b>LIGHT FIXTURES</b>			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	INDEPENDENT SUPPORT: Light fixtures in suspended grid ceilings shall be supported independently of the ceiling suspension system by a minimum of two wires at diagonally opposite corners of the fixtures. Tier 2 Sec 4.8.3.2
<b>CLADDING AND GLAZING</b>			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GLAZING: Glazing in curtain walls and individual panes over 16 square feet in area, located up to a height of 10 feet above an exterior walking surface, shall be safety glazing. Such glazing located over 10 feet above an exterior walking surface shall be laminated annealed or laminated heat-strengthened safety glass or other glazing system that will remain in the frame where glass is cracked. Tier 2 Sec 4.8.4.8
<b>PARAPETS, CORNICES, ORNAMENTATION, AND APPENDAGES</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CONCRETE PARAPETS: Concrete parapets with height-to-thickness ratios greater than 2.5 shall have vertical reinforcement. 4.8.8.3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	APPENDAGES: Cornices, parapets, signs, and other appendages that extend above the highest point of anchorage to the structure or cantilever from exterior wall faces and other exterior wall ornamentation shall be reinforced and anchored to the structural system at a spacing of equal to or less than 10 ft for Life Safety and 6 ft for Immediate Occupancy. Tier 2 Sec 4.8.8.4
<b>MASONRY CHIMNEYS</b>			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	ANCHORAGE: Masonry chimneys shall be anchored at each floor level and the roof. Tier 2 Sec 4.8.9.2

Suspended Ceiling attachments are not known at this time. Plans do not indicate attachment.

Parapets are built integral with concrete walls, but wall attachment to roof diaphragm is inadequate

C	NC	N/A	Comments
<b>MECHANICAL AND ELECTRICAL EQUIPMENT</b>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VIBRATION ISOLATORS: Equipment mounted on vibration isolators shall be equipped with restraints or snubbers. Tier 2 Sec 4.8.12.5
<b>DUCTS</b>			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	STAIR AND SMOKE DUCTS: Stair pressurization and smoke control ducts shall be braced and shall have flexible connections at seismic joints. Tier 2 Sec 4.8.14.1

\* - Checklist statements are based on the second public ballot version of ASCE 31. This checklist will be updated as revisions are made to ASCE 31.

## MECHANICAL

### Airhandler

HVAC system consists of one (1) variable volume air handler and VAV boxes with reheat coils. The built-up air handler located in the basement and serves the VAV boxes at each space. The air handler includes two (2) fans at 10 horsepower each, steam coil for heating and chilled water coil for cooling. Both steam and chilled water are provided from campus central plants. Outdoor air is provided through louvers in the West wall of the building adjacent to the dock.

Air handler is in need of replacement based on equipment age and condition.

Outside air quantities do not meet current standard ASHRAE 62.1 2007 and needs to be included in any building changes.

Outside air intake location should be reviewed and revised if possible to locate away from contaminants.

### Building Heating Water

Hot water for building heating is provided by three (3) steam to hot water shell and tube heat exchangers.

All heat exchangers are in need of replacement based on equipment age and condition.

Currently eight (8) hot water pumps circulate heating water throughout the building to VAV boxes and perimeter cabinet unit heaters.

### Exhaust Systems

Fume hood exhaust and restroom exhaust are served by multiple roof mounted fans. No energy recovery provided in system.

All exhaust fans are in need of replacement based on equipment age and condition.

### Fire Protection

Existing fire protection provided by dry standpipes in the stairwells. No fire sprinklers in building. Current code 2009 NFPA 14 will require fire sprinkler system with standpipes to be added to the building.

### Domestic Water Systems

All domestic piping is galvanized and in need of replacement.

Existing plumbing fixtures are in worn condition, the flushvalves, faucets and valves are worn and in need of replacement due to age and wear.

Drinking fountains do not comply with ADA.

Hot water for building domestic use is provided by one (1) steam to hot water plate and frame heat exchanger.

Heat exchanger has been replaced in the past few years and is in good condition and has many years of service left.

### Controls Systems

Controls are a mix of electronic and pneumatic and need to be updated to full direct digital controls DDC and connected to the campus Johnson controls system.

### Natural Gas

Natural gas is provided in the mechanical room at 2 LB service and distributed throughout the building.

Gas piping is in good condition.

## ELECTRICAL SYSTEM EVALUATION

### A. Power Distribution System

Primary power is provided to this building from freestanding 12470V, 600A fused switch located in the first floor main electrical room. This M.V. switch also distributes M.V. power to the Stadium & Engineering Technology Buildings. This switch has two switch positions that once feed chiller plant in this building but now are spare ways.



There is an additional G & W SF6 that has two spare switches that can be utilized for additional feeds elsewhere on campus.



M.V. line protection is via two 600A fused Square-D switches. Each feed a single pad mounted transformer.



Power in the building is provided through two exterior pad mounted exterior transformers. One is 12470-480V (assumed 1500kVA since no name plate data is available.) The other is a 12470-208/120V (Assumed 1500kVA since no name plate data is available.) These transformers are in good shape and should be reused as possible.



The secondary cables are run free air through cable tray in the first level of the stair enclosure. These cables are in good shape and are mostly protected from physical damage due to location in the stair enclosure. These cables run through pillow blocks in block walls. Some of the pillows have been disturbed.



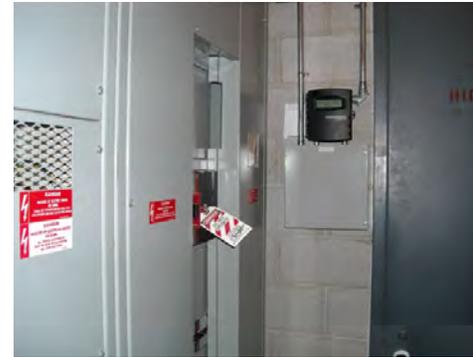
The building 480V main distribution panel is a freestanding 2000A, 480V 3-phase, 3-wire, GE switchboard installed in the main electrical room. This switchboard has been recently upgraded (assumed when the transformers were upgraded) and is in good shape and should be reuse as possible.



Since it is 3 phase 3 wire it might only be capable of providing power to motors and not lighting systems.

This panel also contains the feed for the Lind Lecture Hall.

Panel has a new Hawkeye digital power meter that was recently installed.



The 480V Motor Control center in the main mechanical room is original to the building and still distributes power and controls the majority of the mechanical equipment in the building. Parts will be very hard to find due to age of the equipment.



The building 208V main distribution panel is a free standing 5000A, 208/120V, 3-phase, 4-wire Westinghouse switch board with (4) 1200A main circuit breakers and distribution panelboards. This equipment is original to the building. Parts for this equipment are becoming difficult to find.

Panel has a new Hawkeye digital power meter that was recently installed.



It appears that at some point new branch panel feeders were installed with grounds to each of the floor panels. These are in good shape and could be reused.



Each floor has two 225A 208/120V 3 phase 4-wire panels A & B (feed with 100A circuit breakers) for Lights and general receptacles. These Westinghouse panels are original to the building and parts will be difficult to find parts for. These panels are almost completely full with very little room for additional circuits to be added. They are also recessed in the block walls and therefore new raceway cannot be installed without major expense.

Each panel has a TVSS installed next to or above that protects electrical system from external and internal electrical surges. These TVSS's are relatively new and replacement modules should still be available.



Office levels have one 225A 208/120V 3 phase 4-wire panel (feed with 100A circuit breaker) that feed receptacles on level and mezzanine level above. These Westinghouse panels are original to the building and parts will be difficult to find parts for. These panels are almost completely full with very little room for additional circuits to be added. They are also recessed in the block walls and therefore new raceway cannot be installed without major expense. Each panel has a TVSS installed next to or above that protects electrical system from external and internal electrical surges. These TVSS's are relatively new and replacement modules should still be available.

Lab spaces are feed with multiple 225A 208/120V 3 phase 4-wire panels (feed with 150A circuit breakers) these are generally located in the Lab Prep spaces. Some panels have benches and cabinets located in front of each panel that violates the NEC working clearance requirements. These Westinghouse panels are original to the building and parts will be difficult to find parts for. These panels are almost completely full with very little room for additional circuits to be added. They are also recessed in the block walls and therefore new raceway cannot be installed without major expense. Each panel has a TVSS installed next to or above that protects electrical system from external and internal electrical surges. These TVSS's are relatively new and replacement modules should still be available.

Lab bench outlets are located near sinks but are not GFCI type outlets.



The engine is tied to an Automatic transfer switch located in the 1st Floor Mechanical tunnel. The ATS is tied to 225A, 208/120V 3-phase, 4-wire panel "EM" in the first floor mechanical tunnel. This emergency system also feeds panel "EA" located in the Lind Lecture Hall.



### B. Emergency Power System

The Emergency Power System originates at a Cummins 60kW, 208V, diesel engine generator located in its own weatherproof enclosure east of the building. This engine was installed in 1988.



The engine fuel system in an underground 550 Gal. Fiberglass fuel tank located to the east of the building with pad mounted day tank. The day tank appears to be leaking fuel which could be contaminating ground water and soil.



C. Lighting System

Interior light fixtures in the lab and classroom spaces are 2' x 4' pendent mounted fluorescent light fixtures that are original to the building. These fixtures were re-lamped with T-8 lamps in 1995. The acrylic prismatic lenses are dirty and discolored. Fixtures are switched in rows with toggle switches at the front and back of the rooms.



Interior light fixtures in the lab and classroom spaces are 2' x 4' pendent mounted fluorescent light fixtures that are original to the building. These fixtures were re-lamped with T-8 lamps in 1995. The acrylic prismatic lenses are dirty and discolored. Fixtures are switched in rows with toggle switches at the front and back of the rooms.



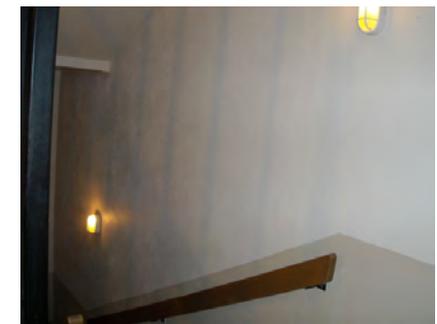
Interior light fixtures in the corridors are 6" x 4' surface mounted fluorescent 2 lamp t-8 light fixtures with wrap around acrylic prismatic lenses. These fixtures are switched with toggle switches located in the corridors.



Fixtures in the office spaces are surface mounted 2' x 4' fluorescent fixtures with prismatic acrylic lenses.

Corridors of the Mezzanine and stair towers office spaces are wall mounted compact fluorescent type. Some of the Lexan lenses are yellowed.

The elevator lobby light fixtures are original recessed can light fixtures with self ballasted compact fluorescent lamps.



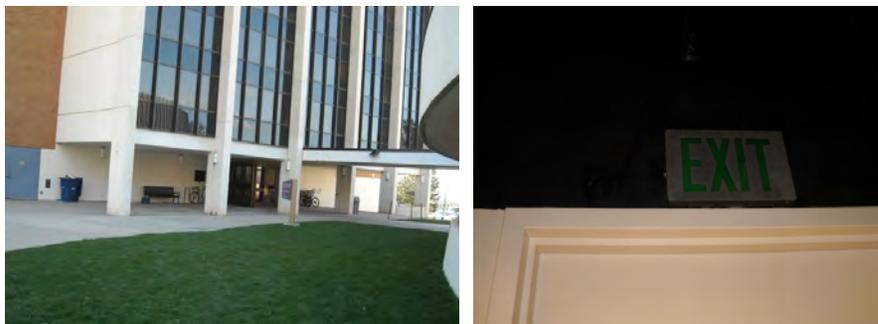
Some of these lamps have been damaged since they protruded partially from the fixture. There is also a fluorescent cove light fixture in the lobbies.



Exterior lighting is surface compact fluorescent decorative fixtures mounted to walls and columns. These fixtures were installed in 1995 with the lighting upgrade. Fixtures are not holding up well, some of them are bent and damaged.

Emergency egress lighting is tied to the Emergency Power System.

Exit Signs are LED type fixtures but many of them are not functioning faceplates. These fixtures are tied to the Emergency Power System.



#### D. Fire Alarm System

The fire alarm system was upgraded with a new Notifier addressable alarm system with horn/strobes approximately in 1997.

When upgraded much of the new wire was installed free air with plenum rated cable. To get from space to space some of the cables run through mechanical diffusers.



Cables have not been supported very well and some drape over the existing water piping which is a code violation. Existing horn/strobes will not be compatible with Mass Notification that WSU is instituting across the campus. Device coverage meets current codes. There is an existing area-of-refuge communication system at each of the stair tower landings.



**E. Security System**

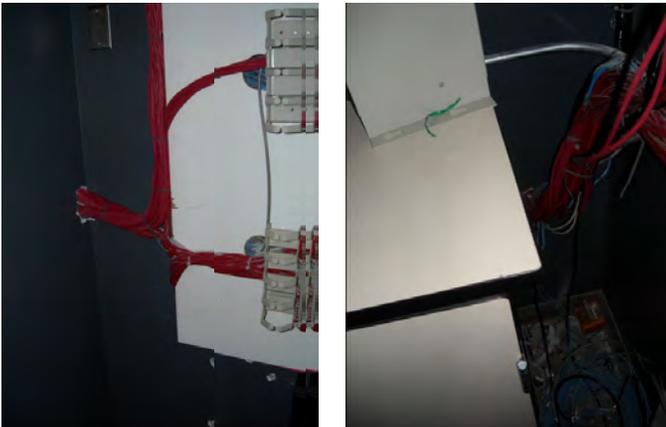
We did not see any existing security system in the building other than stand-alone battery operated keypad lock sets.

**F. Voice/Data System**

The telephone terminal board is located in the 1st Floor Mechanical Room. There is no ground bus bar or spare conduits available at this location. There are (2) 2" conduits that run to telephone terminal cabinets at each level Custodial Closet.



Data system fiber lines and horizontal copper data cables are all pulled to a single room on the 2nd floor these cables have been run free air throughout the building. There are not any cable management systems anywhere in the building.



This room is a shared space and used as a storage room as well as MDF closet. The distribution hubs are virtually full. Addition of new cables to this location will be difficult due to cable congestion.



Existing conduits in the computer labs that run from desks to the ceilings do not have any bushings at conduit ends. These could damage the data cables.



There are wireless nodes installed surface mounted throughout the building to provide additional data connections.



## 3 Space Needs

# 3: SPACE NEEDS

*One of the objectives of the feasibility study was to summarize existing and needed space for the College of Science and the occupants of Buildings 3 and 4. As a basis for summarizing existing square footage, the University provided the planning consultants with spreadsheets and floor plans of some existing spaces occupied by the departments included in the study (see Appendices A and C - K for spreadsheets and floor plans).*

*The determination of the College of Science space needs included:*

- *Tours of the existing Science Lab building and Lind Lecture Hall to review and clarify existing space configurations, amounts and occupants.*
- *Interviews with the Weber State University Provost, the Dean of the College of Science, College of Science Department Chairs and representatives, and University Facilities representatives, to discuss existing and needed space.*

*The University directed the planning consultants to use currently occupied space amounts for Buildings 3 and 4 non-College of Science occupants that were being included in the study's Preliminary Planning Options.*

## COLLEGE OF SCIENCE

According to the existing space list provided by the University, College of Science departments occupy 96,001 NSF (see Appendix A). During the feasibility study building tours and space needs interviews, the existing space list was reviewed and modified to a revised total of 101,000 NSF occupied by departments. Area for Shared Spaces (Lobby, Dean's Office, Learning Center, etc.) and the TERM Math Lab in Lampros Hall were added to the revised department total, for a resulting College of Science total of approximately 110,000 net square feet.

96,001	College of Science Department total NSF (University space list)
5,234	Area modifications per Department space needs interviews
4,001	Shared Spaces (Lobby, Dean's Office, Learning Center, etc.) NSF
5,049	Lampros Hall TERM Math Lab NSF
110,295	College of Science total existing NSF

The College of Science occupies space in eight campus buildings (listed in order of amount of space occupied):

- Science Lab
- Lind Lecture Hall
- Building 4
- Engineering Technology
- Lampros Hall
- Building 3
- Davis Campus Classroom Building
- Observatory

According to input received in meetings and space needs interviews, the College of Science needs to grow to approximately 160,000 net square feet (a 45% increase) in order to meet current and future needs. The 160,000 net square foot amount corresponds to a gross square foot amount of 246,000.

The spreadsheets on the following pages show a detailed breakdown of existing and needed space for the College of Science, by department, as compiled by the planning consultants. Area amounts and notes in red font are changes and comments made by College of Science administrators during their review of the information. Cells highlighted in yellow denote subsequent questions from the planning consultants.

The space needs information in this study will be able to serve as a starting point for future College of Science space needs evaluations or programming efforts.

## BUILDINGS 3 AND 4 OCCUPANTS

The University requested that several non-College of Science occupants of Buildings 3 and 4 be included in the study's Preliminary Planning Options. The planning square footage amounts used for these groups are equivalent to the space they currently occupy in the existing buildings. The currently occupied net square foot amounts were obtained from the University's existing space lists for Buildings 3 and 4. The NSF's were divided by a typical building efficiency factor of 65%, resulting in the gross square foot amounts that were used for planning.

Building 3 occupants included in the study's planning options:

3,337	Sales Services Technology
850	Telecommunications Business Ed.
897	UCAID
5,084	Total NSF (7,822 total GSF at 65% building efficiency)

Building 4 occupants included in the study's planning options:

10,363	Electronics
740	Learning Support Center
1,019	Telecommunications Business Ed.
12,122	Total NSF (18,649 total GSF at 65% building efficiency)

SPACE TYPE	Botany		Chemistry		Geosciences		Mathematics		Mathematics		Microbiology		Physics		Zoology		M&SE	
	Exist. NSF	Needed NSF	Exist. NSF	Needed NSF	Exist. NSF	Needed NSF	Exist. NSF	Needed NSF	Exist. NSF	Needed NSF	Exist. NSF	Needed NSF	Exist. NSF	Needed NSF	Exist. NSF	Needed NSF	Exist. NSF	Needed NSF

(without TERM) (TERM only)

**SUMMARY PAGE**

Offices	937	1,220	2,020	2,180	832	1,220	3,488	4,840			1,024	1,460	1,763	2,060	1,588	2,300	521	521
Classlabs/ Ded. Teaching Space	3,893	4,800	9,138	10,800	3,598	5,000	9,175	14,831	5,049	10,098	3,441	6,000	4,172	6,400	5,566	9,200		
Research Labs	631	1,200	1,812	4,000	1,294	2,600					1,371	2,400	1,356	3,800	3,288	5,028		
Support Space	1,327	1,369	2,171	2,620	694	520	1,331	240			596	1,220	2,894	3,048	1,886	2,498		
Storage	753	1,000	1,785	2,943	1,957	2,115	363	400			862	1,566	885	700	869	1,000		
Greenhouse & Related	1,681	2,200																
Animal Qtrs./ Vivarium															580	1,500		
<b>Total NSF</b>	<b>9,222</b>	<b>11,789</b>	<b>16,926</b>	<b>22,543</b>	<b>8,376</b>	<b>11,455</b>	<b>14,357</b>	<b>20,311</b>	<b>5,049</b>	<b>10,098</b>	<b>7,294</b>	<b>12,646</b>	<b>11,070</b>	<b>16,008</b>	<b>13,775</b>	<b>21,526</b>	<b>521</b>	<b>521</b>
NSF Increase		2,567		5,617		3,079		5,954		5,049		5,352		4,938		7,750		0
% Increase		28%		33%		37%		41%		100%		73%		45%		56%		0%
Shared Classrm/ Lecture	4,058	4,058	4,909	4,909	1,176	1,176	1,073	1,073	0	0	3,126	3,126	3,399	3,642	1,953	1,953	0	400
<b>Total NSF</b>	<b>13,279</b>	<b>15,847</b>	<b>21,835</b>	<b>27,452</b>	<b>9,551</b>	<b>12,630</b>	<b>15,430</b>	<b>21,384</b>	<b>5,049</b>	<b>10,098</b>	<b>10,420</b>	<b>15,772</b>	<b>14,470</b>	<b>19,650</b>	<b>15,728</b>	<b>23,478</b>	<b>521</b>	<b>921</b>
NSF Increase		2,567		5,617		3,079		5,954		5,049		5,352		5,180		7,750		400
% Increase		19%		26%		32%		39%		100%		51%		36%		49%		77%

Existing	Needed	<b>Without Shared Classroom / Lecture Space</b>
86,590	126,897	Total Net Square Feet - Departments
4,011	12,440	Total Net Square Feet - Shared Building Spaces
90,601	139,337	Total Net Square Feet - Building <b>54%</b>
	<b>214,364</b>	<b>PROJECTED BUILDING TOTAL GSF</b> NSF increase
	65%	Building Efficiency

Existing	Needed	<b>With Shared Classroom / Lecture Space</b>
106,284	147,233	Total Net Square Feet - Departments
4,011	12,440	Total Net Square Feet - Shared Building Spaces
110,295	159,673	Total Net Square Feet - Building <b>45%</b>
	<b>245,650</b>	<b>PROJECTED BUILDING TOTAL GSF</b> NSF increase
	65%	Building Efficiency

SPACE	EXISTING					NEEDED			NOTES
	Exist. Bldg.	Exist. Rm. #	Qty.	NSF/ Space	Total NSF	Qty.	NSF/ Space	Total NSF	
<b>BOTANY</b>									
Office - Secretary/Waiting	SciLab	402M	1	145	145	1	200	200	Office std - sec'y/waiting
Office - Dept. Chair	SciLab	402MC	1	155	155	1	180	180	Office std - dept. chair
Office - Faculty	SciLab	403M	1	109	109	1	120	120	Office std - faculty
Office - Faculty	SciLab	404M	1	107	107	1	120	120	Office std - faculty
Office - Faculty	SciLab	406M	1	108	108	1	120	120	Office std - faculty
Office - Faculty	SciLab	407M	1	108	108	1	120	120	Office std - faculty
Office - Faculty	SciLab	409M	1	101	101	1	120	120	Office std - faculty
Office - Adjuncts						1	120	120	Shared by 2-3 adjuncts
Office - Lab Manager	SciLab	423B	1	104	104	1	120	120	
			8		937	9		1,220	
Classlab, 24-Seat	SciLab	421	1	951	951	1	1,200	1,200	Existing is 30-seat classlab; need 24
Classlab, 24-Seat	SciLab	422	1	949	949	1	1,200	1,200	Existing is 24
Classlab, 24-Seat	SciLab	424	1	947	947	1	1,200	1,200	Existing is 30-seat classlab; need 24
Classlab, 24-Seat	SciLab	425	1	910	910	1	1,200	1,200	Existing is 30-seat classlab; need 24
Lab - Teaching, Small	SciLab	419	1	136	136	0	136	0	Eliminate very small research spaces
			5		3,893	4		4,800	
Lab - Research, 8-Seat	SciLab	419A	1	206	206	1	400	400	
Lab - Research	EngTec	133F	1	425	425	1	800	800	Create multiple shared research spaces
			2		631	2		1,200	
Workroom - Office Service	SciLab	402MA	1	86	86	1	120	120	Increase to 120 sf; eliminate small storage spaces
Prep - Lab	SciLab	423	1	446	446	1	800	800	Increase to 800 sq ft; include storage
Prep - Lecture	LindLH	017A	1	449	449	1	449	449	
Student Group Study	SciLab	423C	1	346	346	0	346	0	Eliminate in favor of open general study spaces
			4		1,327	3		1,369	

SPACE	EXISTING					NEEDED			NOTES
	Exist. Bldg.	Exist. Rm. #	Qty.	NSF/ Space	Total NSF	Qty.	NSF/ Space	Total NSF	
<b>BOTANY</b>									
Storage - Office Supplies	SciLab	402MB	1	19	19	0	19	0	Eliminate (see workroom above)
Storage	SciLab	410	1	17	17	0	17	0	Eliminate (see workroom above)
Storage - Plant Specimen	SciLab	420	1	689	689	1	1,000	1,000	Herbarium; reduce to 1000 sf with efficient storage
Storage - AV	SciLab	423A	1	28	28	0	28	0	Eliminate (see workroom above)
			4		753	1		1,000	
Greenhouse	SciLab	623, 624	2	555	1,110	2	800	1,600	
Greenhouse						0	1,200	0	Construct roof to support in future
Head House	SciLab	622	1	443	443	1	450	450	
Storage - Greenhouse	SciLab	622A	1	129	129	1	150	150	
			4		1,681	4		2,200	
Classroom, 36-seat	LindLH	228	1	536	536	1	536	536	
Lecture, 88-seat	LindLH	129	1	1,180	1,180	1	1,180	1,180	Botany
Lecture, 161-seat	LindLH	126	1	2,341	2,341	1	2,341	2,341	Shared - Botany / Chem / Math / Micro / Zoology
			3		4,058	3		4,058	
<b>BOTANY TOTAL</b>			<b>30</b>		<b>13,279</b>	<b>26</b>		<b>15,847</b>	

**Space Needs Input:**

Faculty: 6 F.T. now with future growth of 1

Adjunct Faculty: Need 1 shared office for 2-3

Teaching Labs: 24-student classlab is the desired planning module. Need a quantity of **four**.

Increase Herbarium size to **1,000 SF**.

Add **roof structure capacity for a future** 3rd greenhouse of 1,100 - 1,600 SF.

SPACE	EXISTING					NEEDED			NOTES
	Exist. Bldg.	Exist. Rm. #	Qty.	NSF/ Space	Total NSF	Qty.	NSF/ Space	Total NSF	
<b>CHEMISTRY</b>									
Office - Secretary/Waiting	SciLab	502M	1	145	145	1	200	200	
Office - Dept. Chair	SciLab	502MC	1	154	154	1	180	180	
Office - Faculty	SciLab	403MA	1	107	107	1	120	120	
Office - Faculty	SciLab	503M	1	220	220	1	120	120	Center for Chemical Technology
Office - Faculty	SciLab	504M	1	107	107	1	120	120	
Office - Faculty	SciLab	505M	1	107	107	1	120	120	
Office - Faculty	SciLab	506M	1	106	106	1	120	120	
Office - Faculty	SciLab	507M	1	107	107	1	120	120	
Office - Faculty	SciLab	508M	1	107	107	1	120	120	
Office - Faculty	SciLab	509M	1	100	100	1	120	120	
Office - Faculty	SciLab	607	1	107	107	1	120	120	
Office - Faculty	SciLab	608	1	107	107	1	120	120	
Office - Faculty	SciLab	609	1	107	107	1	120	120	
Office - Faculty	SciLab	ET137	1	113	113	1	120	120	
Office - Adjuncts	SciLab	607	1	107	107	2	120	240	Shared by 2 adjuncts; eliminate?
Office - Stores Manager	SciLab	519	1	96	96	0	120	0	Chemical storage; not needed if on one floor
Office - Stores Manager	SciLab	627A	1	123	123	1	120	120	
			17		2,020	17		2,180	
Lab, 24-Seat	SciLab	515	1	693	693	1	1,200	1,200	Existing = 16-seat; want separate lab & classroom
Lab, 24-Seat	SciLab	525	1	1,242	1,242	1	1,200	1,200	Want separate classrooms & labs (no classlabs)
Lab, 24-Seat	SciLab	526	1	940	940	1	1,200	1,200	Want separate classrooms & labs (no classlabs)
Lab, 24-Seat	SciLab	527	1	914	914	1	1,200	1,200	Want separate classrooms & labs (no classlabs)
Lab, 24-Seat	SciLab	531	1	950	950	1	1,200	1,200	Want separate classrooms & labs (no classlabs)
Lab, 24-Seat	SciLab	532	1	944	944	1	1,200	1,200	Want separate classrooms & labs (no classlabs)
Classroom - Chemistry, 36-seat	SciLab	540	1	556	556	1	800	800	Dedicated classroom w/demonstration table
Lab - Organic, 24-Seat	SciLab	621	1	1,163	1,163	1	1,200	1,200	
Lab - Organic, 24-Seat	SciLab	626	1	1,160	1,160	1	1,200	1,200	
Lab - Teaching & Research	SciLab	513	1	361	361	1	400	400	Dedicated NMR room with necessary shielding
Lab, Open	SciLab	514	1	216	216	0	216	0	Student lab instrument. data; combine w/instrumentation lab
			11		9,138	10		10,800	
Research-Chemical	SciLab	517	1	208	208	2	800	1,600	Create multiple user spaces
Research-Chemical	SciLab	518	1	209	209	6	400	2,400	
Research-Chemical	SciLab	522	1	117	117	0	400	0	Eliminate individual spaces
Research-Chemical	SciLab	523	1	116	116	0	400	0	Eliminate individual spaces
Research-Chemical	SciLab	524	1	324	324	0	400	0	Eliminate individual spaces
Research-Chemical	EngTec	133C	1	284	284	0	400	0	Eliminate individual spaces
Research-Chemical	LindLH	011	1	555	555	0	400	0	Eliminate individual spaces
			7		1,812	8		4,000	

SPACE	EXISTING					NEEDED			NOTES
	Exist. Bldg.	Exist. Rm. #	Qty.	NSF/ Space	Total NSF	Qty.	NSF/ Space	Total NSF	
<b>CHEMISTRY</b>									
Workroom - Office Service	SciLab	502MA	1	85	85	1	120	120	
Prep / Storage	SciLab	529	1	594	594	1	1,000	1,000	Combine prep/storage if on single floor
Prep	SciLab	627	1	148	148	0	148	0	
Balance Room	SciLab	516	1	375	375	1	500	500	Combine balance rooms
Balance Room	SciLab	528	1	168	168	0	168	0	
Balance Room	SciLab	530	1	170	170	0	170	0	
Instrumentation Lab	SciLab	512	1	577	577	1	1,000	1,000	
Instruments	SciLab	627C	1	54	54	0	54	0	Eliminate
			8		2,171	4		2,620	
Storage - Office Supplies	SciLab	502MB	1	19	19	0	19	0	Eliminate in favor of larger workroom / storage
Stores	SciLab	520	1	415	415	1	1,200	1,200	Chemical storage; combine with next space
Stores	SciLab	521	1	469	469	0	900	0	Chemical storage - needs to double in size
Storage	SciLab	511	1	61	61	1	1,000	1,000	General flexible storage space for chemicals
Storage	SciLab	515A	1	122	122	1	500	500	Storage for glassware and equipment
Storage	SciLab	515B	1	7	7	0	7	0	
Storage	SciLab	627B	1	193	193	0	193	0	
Storage - Chemistry	SciLab	104	1	256	256	0	256	0	Chemical storage
Storage - Lab	LindLH	011B	1	233	233	1	233	233	
Closet	LindLH	011A	1	10	10	1	10	10	
			10		1,785	5		2,943	
Lecture, 64-seat	LindLH	122	1	935	935	1	935	935	Chemistry
Lecture, 129-seat	LindLH	125	1	2,556	2,556	1	2,556	2,556	Shared - Chemistry / Physics / Zoology
Lecture, 105-seat	LindLH	123	1	1,418	1,418	1	1,418	1,418	Shared - Chemistry / Zoology
			3		4,909	3		4,909	
<b>CHEMISTRY TOTAL</b>			<b>56</b>		<b>21,835</b>	<b>47</b>		<b>27,452</b>	

**Space Needs Input:**

Faculty: 11 F.T. now with future growth of 1.

Adjunct Faculty: Need shared office space for 3-4.

Teaching Labs: 24-student lab is a good planning module. Need separate lab and classroom space (no classlabs).

Growth in student quantity has been and will be strong due to pre-professional and engineering programs.

Research Labs: Require 1 per faculty member, each 50% larger than existing sizes.

Increase Stores space by 50%.

Research labs should be near faculty offices.

Vibration isolation considerations.

SPACE	EXISTING					NEEDED			NOTES
	Exist. Bldg.	Exist. Rm. #	Qty.	NSF/ Space	Total NSF	Qty.	NSF/ Space	Total NSF	
<b>GEOSCIENCES</b>									
Office - Secretary/Waiting	SciLab	202M	1	145	145	1	200	200	
Office - Dept Chair	SciLab	202MC	1	152	152	1	180	180	
Office - Faculty	SciLab	203MA	1	108	108	1	120	120	
Office - Faculty	SciLab	204M	1	107	107	1	120	120	
Office - Faculty	SciLab	206M	1	107	107	1	120	120	
Office - Faculty	SciLab	207M	1	107	107	1	120	120	
Office - Faculty	SciLab	208M	1	107	107	1	120	120	
Office - Faculty						1	120	120	Future growth
Office - Adjuncts						1	120	120	Shared by 3 adjuncts
			7		832	9		1,220	
Lab, 36-Seat	SciLab	320	1	861	861	1	1,200	1,200	Exist. = 36 seats; confirm needed seat quantity
Lab, 20-Seat	SciLab	332	1	649	649	1	800	800	Exist. = 20 seats; confirm needed seat quantity
Lab, 6-Seat	SciLab	333	1	512	512	1	600	600	Confirm needed seat quantity
Lab - Geography, 28-Seat	SciLab	328	1	946	946	1	1,200	1,200	Exist. = 28 seats; confirm needed seat quantity
Lab - GIS Computer, 24-Seat	SciLab	329	1	630	630	1	1,200	1,200	Exist. = 16 seats; increase to 24
			5		3,598	5		5,000	
Lab - Research	SciLab	323A	1	123	123	1	800	800	Create 2 multiuser spaces
Lab - Research	SciLab	346	1	207	207	1	200	200	Lapidary ("dirty" lab for rock cutting)
Lab - Research	SciLab	346A	1	344	344	1	400	400	Water lab
Research - Paleontology	SciLab	325	1	162	162	1	400	400	
Research - Geology	SciLab	121	1	168	168	1	400	400	
Research - Spectograph	LindLH	012	1	291	291	1	400	400	
			6		1,294	6		2,600	
Workroom - Office Service	SciLab	202MA	1	88	88	1	120	120	
Prep	SciLab	323	1	257	257	1	400	400	Combine prep areas
Prep	SciLab	326	1	183	183	0	183	0	
Workroom (Lapidary)	SciLab	117	1	167	167	0	167	0	See above
			4		694	2		520	

SPACE	EXISTING					NEEDED			NOTES
	Exist. Bldg.	Exist. Rm. #	Qty.	NSF/ Space	Total NSF	Qty.	NSF/ Space	Total NSF	
<b>GEOSCIENCES</b>									
Storage - Office Supplies	SciLab	202MB	1	19	19	0	19	0	
Storage	SciLab	330	1	476	476	1	1,200	1,200	Create one flexible storage area
Storage	SciLab	331	1	305	305	1	400	400	Create second smaller storage area
Storage	SciLab	324	1	162	162	0	162	0	
Storage	SciLab	321	1	167	167	0	167	0	
Storage (Specimen)	SciLab	322	1	184	184	0	200	0	
Storage	SciLab	105	1	128	128	0	128	0	
Storage	LindLH	013	1	199	199	1	199	199	
Storage	LindLH	014	1	316	316	1	316	316	
			9		1,957	4		2,115	
Lecture Hall, 88-Seat	LindLH	124	1	1,176	1,176	1	1,176	1,176	Geosciences
			1		1,176	1		1,176	
<b>GEOSCIENCES TOTAL</b>			<b>32</b>		<b>9,551</b>	<b>27</b>		<b>12,630</b>	

**Space Needs Input:**

Faculty: 6 F.T. now with future growth of 1

Adjunct Faculty: Need 1 shared office for 3

Teaching Labs: Require separate lab and classroom spaces, so students can access labs outside of class time.

Require shared lab with Physics for SEM, AFM, Optical Microscope(s). Possibility for sharing by entire College. (Listed under Physics Dept.)

Increase GIS Lab to 24 stations.

Research Labs: Each faculty member requires 400 SF of research space.

Increase specimen storage space (currently adequate but needed for future growth). Can be basement space (no windows; requires service access).

Require vibration isolation, electrical shielding.

SPACE	EXISTING					NEEDED			NOTES
	Exist. Bldg.	Exist. Rm. #	Qty.	NSF/ Space	Total NSF	Qty.	NSF/ Space	Total NSF	
<b>MATHEMATICS</b>									
Office - Faculty	Bldg 3	327A	1	124	124	1	120	120	
Office - Faculty	Bldg 3	327B	1	126	126	1	120	120	
Office - Faculty	Bldg 3	327D	1	109	109	1	120	120	
Office - Faculty	Bldg 3	327E	1	107	107	1	120	120	
Office - Faculty	Bldg 3	330	1	105	105	1	120	120	
Office - Faculty	Bldg 4	501A	1	70	70	1	120	120	
Office - Faculty	Bldg 4	502A	1	102	102	1	120	120	
Office - Faculty	Bldg 4	502B	1	69	69	1	120	120	
Office - Faculty	Bldg 4	502C	1	70	70	1	120	120	
Office - Faculty	Bldg 4	502D	1	72	72	1	120	120	
Office - Faculty	Bldg 4	503A	1	92	92	1	120	120	
Office - Faculty	Bldg 4	503B	1	108	108	1	120	120	
Office - Faculty	Bldg 4	503C	1	98	98	1	120	120	
Office - Faculty	Bldg 4	504A	1	84	84	1	120	120	
Office - Faculty	Bldg 4	504B	1	84	84	1	120	120	
Office - Faculty	Bldg 4	505A	1	193	193	1	120	120	
Office - Faculty	Bldg 4	506	1	108	108	1	120	120	
Office - Faculty	Bldg 4	506A	1	125	125	1	120	120	
Office - Faculty	Bldg 4	513A	1	90	90	1	120	120	
Office - Faculty	Bldg 4	513B	1	91	91	1	120	120	
Office - Faculty	Bldg 4	513C	1	87	87	1	120	120	
Office - Faculty	Bldg 4	518B	1	160	160	1	120	120	
Office - Faculty	Bldg 4	518C	1	92	92	1	120	120	
Office - Faculty	Bldg 4	521	1	101	101	1	120	120	
Office - Faculty	Bldg 4	522	1	100	100	1	120	120	
Office - Faculty	Bldg 4	523	1	100	100	1	120	120	
Office - Faculty	Bldg 4	525	1	95	95	1	120	120	
Office - Faculty	Bldg 4	526	1	80	80	1	120	120	

SPACE	EXISTING					NEEDED			NOTES
	Exist. Bldg.	Exist. Rm. #	Qty.	NSF/ Space	Total NSF	Qty.	NSF/ Space	Total NSF	
<b>MATHEMATICS</b>									
Office - Faculty	Bldg 4	527	1	79	79	0	120	0	Allow for 14 faculty & 1 chair for both Math & Dev Math
Office - Faculty	Bldg 4	528	1	80	80	0	120	0	
Office - Faculty	Bldg 4	529	1	80	80	0	120	0	
Office - Faculty	Bldg 4	530	1	80	80	0	120	0	
Office - Faculty	Bldg 4	531	1	80	80	0	120	0	
Office - Faculty	Bldg 4	532	1	79	79	0	120	0	
Office - Faculty	Bldg 4	543	1	88	88	0	120	0	
Office - Faculty	Bldg 4	544	1	80	80	0	120	0	
Office - Adjuncts						6	120	720	Shared by 2-3 adjuncts; consider 1 flexible space
Office - Secretary/Waiting						2	200	400	Office std - sec'y/waiting - Math and Dev Math
Office - Dept. Chair						2	180	360	Office std - dept. chair - Math and Dev Math
			36		3,488	38		4,840	
<i>Traditional Math Classrooms</i>									
Classroom, 40-Seat	Bldg 3	313	1	939	939	1	1,000	1,000	Existing = 37 seats; want 40 seats
Classroom, 40-Seat	Bldg 3	328	1	713	713	1	1,000	1,000	Existing = 32 seats; want 40 seats
Classroom, 40-Seat	Bldg 4	508	1	455	455	1	1,000	1,000	Existing = 32 seats; want 40 seats
Classroom, 40-Seat	Bldg 4	509	1	455	455	1	1,000	1,000	Existing = 32 seats; want 40 seats
Classroom, 40-Seat	Bldg 4	510	1	549	549	1	1,000	1,000	Existing = 40 seats; requires 1,000 SF
Classroom, 40-Seat	Bldg 4	511	1	549	549	1	1,000	1,000	Existing = 40 seats; requires 1,000 SF
Classroom, 40-Seat	Bldg 4	515	1	593	593	1	1,000	1,000	Existing = 36 seats; want 40 seats
Classroom, 40-Seat	Bldg 4	518	1	553	553	1	1,000	1,000	Existing = 24 seats; want 40 seats
Classlab, 48-Seat	Bldg 4	539	1	1,268	1,268	1	1,200	1,200	Traditional Math drop-in tutoring lab
Open Lab, 16-Seat	Bldg 4	505	1	885	885	1	432	432	Drop-in computer lab
			10		6,959	10		9,632	
Student Study	Bldg 4	507	1	458	458	0	458	0	Eliminate in favor of general open study/gathering spaces
Workroom - Office Service?	Bldg 4	512	1	68	68	2	120	240	
Workroom - Faculty?	Bldg 4	518D	1	275	275	0	275	0	Eliminate
Break	Bldg 4	518A	1	369	369	0	369	0	Eliminate in favor of general gathering spaces
Workroom - Office Service	Bldg 3	329	1	77	77	0	77	0	Eliminate
Mail	Bldg 3	326E	1	83	83	0	83	0	Eliminate - part of secretary spaces
			6		1,331	2		240	

SPACE	EXISTING					NEEDED			NOTES
	Exist. Bldg.	Exist. Rm. #	Qty.	NSF/ Space	Total NSF	Qty.	NSF/ Space	Total NSF	
<b>MATHEMATICS</b>									
Storage	Bldg 4	501B	1	83	83	2	200	400	One storage space each for Math and Dev Math
Storage	Bldg 4	501C	1	7	7	0	7	0	
Storage	Bldg 4	505C	1	145	145	0	145	0	
Storage	Bldg 4	507A	1	31	31	0	31	0	
Storage	Bldg 4	539A	1	20	20	0	20	0	
Storage	Bldg 4	539B	1	17	17	0	17	0	
Storage	Bldg 4	541A	1	15	15	0	15	0	
Storage	Bldg 4	542	1	38	38	0	38	0	
Closet	Bldg 4	520	1	8	8	0	8	0	
			9		363	2		400	
Classroom, 36-Seat	LindLH	222	1	538	538	1	538	538	Shared - Chemistry / Mathematics
Classroom, 40-Seat	LindLH	223	1	535	535	1	535	535	Mathematics
			2		1,073	2		1,073	
<i>Developmental Math Classrooms</i>									
Classroom, 24-Seat	Bldg 4	516	1	588	588	1	1,040	1,040	Dev Math Computer Classroom (confirm)
Classroom, 24-Seat	Bldg 4	517	1	588	588	1	1,040	1,040	Dev Math Computer Classroom (confirm)
Classroom, 24-Seat	EngTec	127	1	1,040	1,040	1	1,040	1,040	Dev Math Computer Classroom (confirm)
Classroom, 24-Seat						2	1,040	2,079	Future growth: Dev. Math Computer Classroom
			3		2,216	5		5,199	
<b>Subtotal for Math without TERM Lab</b>			<b>66</b>		<b>15,430</b>	<b>59</b>		<b>21,384</b>	

SPACE	EXISTING					NEEDED			NOTES
	Exist. Bldg.	Exist. Rm. #	Qty.	NSF/ Space	Total NSF	Qty.	NSF/ Space	Total NSF	
<b>MATHEMATICS</b>									
<b><i>Developmental Math TERM Lab</i></b>									
TERM Lab, 187-Seat	Lampros		187	27	5,049	187	27	5,049	Existing Lampros Hall, 187 stations
TERM Lab, 80-Seat						80	27	2,160	Minimum added need of 80 stations
TERM Lab, 33-Seat						33	27	891	Added need for goal of 300 stations
Quant. Lit. TERM Lab, 74-Seat						74	27	1,998	Added need for Quant. Lit. TERM model
<b>Subtotal for Dev. Math TERM Lab</b>			<b>187</b>		<b>5,049</b>	<b>374</b>		<b>10,098</b>	Double existing Lampros space
<b>MATHEMATICS TOTAL</b>									
			<b>253</b>		<b>20,479</b>	<b>433</b>		<b>31,482</b>	

**Space Needs Input:**

**Developmental Math**

Faculty: 11 F.T. now; allow for 14 F.T. faculty plus Department Chair.

Adjunct Faculty: Need shared office space for approx. 30

Classrooms (Computer Station): Have 3 existing (2 in Bldg. 4, 1 in ET; need (5), each with 24 stations, each 1,040 NSF.

Hub: Existing - 187 workstations in Lampros, with 10 staff available for assistance. Total of 300 workstations is goal for future needs; at minimum, need 80 additional stations.

Shared office space for Adjuncts should be located with Hub workstations.

**Math**

Faculty: 11 F.T. now; allow for 14 F.T. faculty plus Department Chair.

Adjunct Faculty: Need shared office space for approx. 20

Classrooms: Use traditional teaching model. Want 40-student classroom capacity, each at 1,000 SF.

SPACE	EXISTING					NEEDED			NOTES
	Exist. Bldg.	Exist. Rm. #	Qty.	NSF/ Space	Total NSF	Qty.	NSF/ Space	Total NSF	
<b>MICROBIOLOGY</b>									
Office - Secretary/Waiting	SciLab	302M	1	145	145	1	200	200	
Office - Dept. Chair	SciLab	302MC	1	152	152	1	180	180	
Office - Faculty	SciLab	303M	1	108	108	1	120	120	
Office - Faculty	SciLab	303MA	1	108	108	1	120	120	
Office - Faculty	SciLab	304M	1	108	108	1	120	120	
Office - Faculty	SciLab	305M	1	108	108	1	120	120	
Office - Faculty	SciLab	306M	1	108	108	1	120	120	
Office - Faculty	SciLab	307M	1	108	108	1	120	120	
Office - Faculty						1	120	120	Future growth
Office - Adjuncts						1	120	120	Shared by 2-3 adjuncts
Office - Stock Manager	SciLab	342	1	77	77	1	120	120	
			9		1,024	11		1,460	
Classlab, 24-Seat	SciLab	334	1	762	762	1	1,200	1,200	
Classlab, 24-Seat	SciLab	335	1	787	787	1	1,200	1,200	
Classlab, 24-Seat	SciLab	344	1	947	947	1	1,200	1,200	
Classlab, 24-Seat	SciLab	345	1	945	945	1	1,200	1,200	
Classlab, 24-Seat						1	1,200	1,200	Future growth; 1 additional classlab should work
			4		3,441	5		6,000	
Research-Microbiology	EngTec	133E	1	410	410	2	800	1,600	Shared multi-user research space
Research-Microbiology	SciLab	124	1	169	169	1	400	400	Shared by 2 faculty members
Research-Microbiology	SciLab	125	1	700	700	1	400	400	Shared by 2 faculty members
Research-Microbiology	SciLab	126	1	92	92	0	400	0	Eliminate
			4		1,371	4		2,400	
Workroom - Office Service	SciLab	302MA	1	88	88	1	120	120	
Prep	SciLab	338	1	242	242	1	300	300	
Prep	SciLab	339A	1	133	133	1	300	300	
Project Room	SciLab	337	1	133	133	0	133	0	
Specialty Equipment						1	500	500	Shared by all Microbiology
			4		596	4		1,220	

SPACE	EXISTING					NEEDED			NOTES
	Exist. Bldg.	Exist. Rm. #	Qty.	NSF/ Space	Total NSF	Qty.	NSF/ Space	Total NSF	
<b>MICROBIOLOGY</b>									
Storage - Office Supplies	SciLab	302MB	1	19	19	0	19	0	
Supplies	SciLab	339	1	328	328	1	400	400	
Stock Room	SciLab	340	1	110	110	1	800	800	One combined stock room
Stock Room	SciLab	341	1	39	39	0	400	0	
Storage	LindLH	005	1	366	366	1	366	366	Lecture-related storage
			5		862	3		1,566	
Classroom, 36-Seat	LindLH	229	1	535	535	1	535	535	Microbiology
Lecture Hall, 120-Seat	LindLH	127	1	1,656	1,656	1	1,656	1,656	Microbiology
Lecture Hall, 64-Seat	LindLH	128	1	935	935	1	935	935	Shared - Geosciences, Microbiology
			3		3,126	3		3,126	
<b>MICROBIOLOGY TOTAL</b>			<b>29</b>		<b>10,420</b>	<b>30</b>		<b>15,772</b>	

**Space Needs Input:**

Faculty: 7 F.T. now with future growth of 1

Adjunct Faculty: Need 1 shared office for 2-3

Teaching Labs: 24-student classlab is the desired planning module. Need a quantity of five (includes 1 growth).

Research Labs: Can be shared by 2 faculty members if 400 SF. All faculty members need research space.

Need an increase in storage space ("inadequate and unsafe"). Need safe, secure chemical storage.

Need a space for specialty equipment shared by department.

SPACE	EXISTING					NEEDED			NOTES
	Exist. Bldg.	Exist. Rm. #	Qty.	NSF/ Space	Total NSF	Qty.	NSF/ Space	Total NSF	

**PHYSICS**

Office - Secretary/Waiting	SciLab	202	1	145	145	1	200	200	
Office - Dept. Chair	SciLab	202C	1	154	154	1	180	180	
Office - Faculty	SciLab	203	1	107	107	1	120	120	
Office - Faculty	SciLab	204	1	106	106	1	120	120	
Office - Faculty	SciLab	204A	1	107	107	1	120	120	
Office - Faculty	SciLab	205	1	107	107	1	120	120	
Office - Faculty	SciLab	205M	1	107	107	1	120	120	
Office - Faculty	SciLab	206	1	107	107	1	120	120	
Office - Faculty	SciLab	207	1	107	107	1	120	120	
Office - Faculty	SciLab	208	1	107	107	1	120	120	
Office - Faculty	SciLab	209	1	101	101	1	120	120	
Office - Faculty	SciLab	209M	1	101	101	1	120	120	
Office - Faculty						1	120	120	Future growth
Office - Adjunct	SciLab	211	1	95	95	1	120	120	Shared by 2-3 adjuncts
Office-Lab Manager	SciLab	223	1	196	196	1	120	120	
Office - Planetarium?	LindLH	209	1	115	115	1	120	120	
			15		1,763	16		2,060	

Classlab, 24-Seat	SciLab	221	1	890	890	1	1,200	1,200	Existing: 32-seat lab; needed: 24-seat classlab
Classlab, 24-Seat	SciLab	222	1	893	893	1	1,200	1,200	Existing: 32-seat lab; needed: 24-seat classlab
Classlab, 24-Seat	SciLab	225	1	730	730	1	1,200	1,200	Existing: 24-seat lab; needed: 24-seat classlab
Classlab, 24-Seat	SciLab	226	1	693	693	1	1,200	1,200	Existing: 16-seat lab; needed: 24-seat classlab
Lab-Optics, 8-Seat	SciLab	232B	1	503	503	1	800	800	Existing space is too small with equip.
Lab-Electronics, 12-Seat	SciLab	232	1	464	464	1	800	800	Existing space is too small with equip.
			6		4,172	6		6,400	

Research	SciLab	106	1	228	228	3	800	2,400	Larger multi-user spaces
Research	SciLab	107	1	205	205	2	400	800	
Research	SciLab	120	1	162	162	1	300	300	Use for research rather than storage
Research	SciLab	118	1	166	166	1	300	300	
Research	SciLab	122	1	183	183	0	300	0	
Research	SciLab	237	1	125	125	0	300	0	
Research	SciLab	223B	1	196	196	0	300	0	
Research	SciLab	233	1	91	91	0	300	0	
			8		1,356	7		3,800	

SPACE	EXISTING					NEEDED			NOTES
	Exist. Bldg.	Exist. Rm. #	Qty.	NSF/ Space	Total NSF	Qty.	NSF/ Space	Total NSF	
<b>PHYSICS</b>									
Workroom - Office Service	SciLab	202A	1	87	87	1	120	120	
Workroom	SciLab	127	1	119	119	0	119	0	
Prep	SciLab	224	1	742	742	1	1,000	1,000	Prep/storage area
SEM Room	SciLab	210A	1	115	115	1	500	500	Shared-Geo/College (SEM, AFM, etc.); special isolation
Darkroom	SciLab	232C	1	45	45	1	100	100	
Student Study	SciLab	231	1	370	370	0	370	0	Eliminate in preference to shared study/gathering spaces
Break	SciLab	214	1	88	88				Needed space included in Shared Spaces category
Prep - Lecture	LindLH	010	1	1,208	1,208	1	1,208	1,208	
Prep - Lecture	LindLH	010B	1	120	120	1	120	120	
			9		2,894	6		3,048	
Storage - Office Supplies	SciLab	202B	1	19	19	0	19	0	
Storage	SciLab	201A	1	16	16	0	16	0	
Storage	SciLab	223A	1	352	352	1	500	500	Consolidate and increase storage space
Storage	SciLab	210M	1	8	8	0	8	0	
Storage	SciLab	231A	1	91	91	0	91	0	
Storage - Radioactive	SciLab	115	1	141	141	1	200	200	Radioactive mat'l storage
Storage	LindLH	010A	1	10	10	0	10	0	
Storage - Equipment	Observ	100	1	247	247	0	247	0	
			8		885	2		700	
Classroom - Computer, 32-Seat	SciLab	220	1	647	647	1	647	647	Assume could be shared
Classroom, 36-Seat	SciLab	240	1	558	558	1	800	800	Could be shared. Future need: 50-Seat capacity
Classroom, 36-Seat	LindLH	221	1	536	536	1	536	536	Shared - Math / Physics / Zoology
Lecture Hall, 105-Seat	LindLH	121	1	1,659	1,659	1	1,659	1,659	Physics
			4		3,399	4		3,642	
<b>PHYSICS TOTAL</b>			<b>50</b>		<b>14,470</b>	<b>41</b>		<b>19,650</b>	

**Space Needs Input:**

Faculty: 9 F.T. & 2 P.T. now with future growth of 1

Adjunct Faculty: Need 1 shared office for 2-3

Teaching Labs: 24-student classlab is the desired planning module. Current quantity adequate for current faculty quantity.

Research Labs: Require research space for each faculty member, 50% larger than existing spaces.

Require vibration isolation for some equipment.

Require 14' high ceilings in some labs.

SPACE	EXISTING					NEEDED			NOTES
	Exist. Bldg.	Exist. Rm. #	Qty.	NSF/ Space	Total NSF	Qty.	NSF/ Space	Total NSF	
<b>ZOOLOGY</b>									
Office - Secretary/Waiting	SciLab	402	1	145	145	1	200	200	
Office - Dept. Chair	SciLab	402C	1	155	155	1	180	180	
Office - Faculty	SciLab	403	1	110	110	1	120	120	
Office - Faculty	SciLab	403A	1	105	105	1	120	120	
Office - Faculty	SciLab	404	1	107	107	1	120	120	
Office - Faculty	SciLab	405	1	107	107	1	120	120	
Office - Faculty	SciLab	405M	1	107	107	1	120	120	
Office - Faculty	SciLab	406	1	107	107	1	120	120	
Office - Faculty	SciLab	407	1	107	107	1	120	120	
Office - Faculty	SciLab	408	1	107	107	1	120	120	
Office - Faculty	SciLab	408M	1	108	108	1	120	120	
Office - Faculty	SciLab	409	1	101	101	1	120	120	
Office - Lab Manager	SciLab	428A	1	106	106	1	120	120	
Office - Faculty						2	120	240	Future growth
Office - Faculty	EngTec	135	1	114	114	1	120	120	
Office - Adjuncts						2	120	240	Shared by 2-3 adjuncts; consider 1 larger flexible space
			14		1,588	18		2,300	
Classlab, 24-Seat	SciLab	426	1	916	916	1	1,200	1,200	
Classlab - Physiology, 24-Seat	SciLab	427	1	942	942	1	1,200	1,200	
Classlab, 24-Seat	SciLab	429	1	950	950	1	1,200	1,200	
Classlab, 24-Seat	SciLab	430	1	945	945	1	1,200	1,200	
Classlab, 24-Seat						1	1,200	1,200	Future growth
Lab - Anatomy, 24-Seat	LindLH	003	1	778	778	1	2,000	2,000	
Classlab, 40-Seat	EngTec	139	1	1,035	1,035	1	1,200	1,200	
			6		5,566	7		9,200	
Research	LindLH	006	1	850	850	1	850	850	Assume shared by 3 faculty
Research	SciLab	128	1	166	166	2	400	800	
Research - DNA	SciLab	116A	1	965	965	1	1,200	1,200	Assume shared by 4 faculty
Research	SciLab	123	1	177	177	0	300	0	Eliminate
Research	SciLab	129	1	164	164	0	300	0	Eliminate
Research - Ecology	LindLH	006A	1	178	178	1	178	178	
Research, 12-Seat	EngTec	133A	1	377	377	1	400	400	
Research, 16-Seat	EngTec	133B	1	410	410	1	800	800	
Research						2	400	800	Future need
			8		3,288	9		5,028	

SPACE	EXISTING					NEEDED			NOTES
	Exist. Bldg.	Exist. Rm. #	Qty.	NSF/ Space	Total NSF	Qty.	NSF/ Space	Total NSF	
<b>ZOOLOGY</b>									
Workroom - Office Service	SciLab	402A	1	85	85	1	120	120	
Workroom	SciLab	116	1	169	169	0	169	0	Eliminate
Prep	SciLab	428	1	623	623	1	800	800	Prep and storage
Prep	EngTec	139A	1	256	256	1	800	800	Prep and storage
Prep	LindLH	006C	1	278	278	1	278	278	
Amplification Room	SciLab	116C	1	232	232	1	400	400	
Darkroom	SciLab	116B	1	86	86	1	100	100	
Project Room	LindLH	006B	1	157	157	0	157	0	Eliminate
			8		1,886	6		2,498	
Storage - Office Supplies	SciLab	402B	1	19	19	0	40	0	Eliminate
Storage	SciLab	428B	1	203	203	0	400	0	
Storage - Collections	SciLab	440	1	560	560	1	800	800	
Storage	LindLH	003A	1	86	86	1	200	200	Cadaver storage
			4		869	2		1,000	
Animal Quarters (Vivarium)	SciLab	616	1	118	118				
Animal Quarters (Vivarium)	SciLab	616	1	111	111				
Animal Quarters (Vivarium)	SciLab	617	1	187	187				
Animal Quarters (Vivarium)	SciLab	618	1	164	164				
Vivarium						1	1,500	1,500	
			4		580	1		1,500	
Classlab, 36-Seat	LindLH	230	1	534	534	1	534	534	Shared - CMSE / Zoology
Lecture Hall, 105-Seat	LindLH	130	1	1,419	1,419	1	1,419	1,419	Zoology
			2		1,953	2		1,953	
<b>ZOOLOGY TOTAL</b>			<b>46</b>		<b>15,728</b>	<b>45</b>		<b>23,478</b>	

**Space Needs Input:**

Faculty: 5 F.T. now with future growth to 13, plus Chair

Adjunct Faculty: Need 2 offices, each for 2-3 people, or one larger flexible space.

Main office / storage areas (SF 402, 402A & 402B) should be 50-100% larger than current.

Teaching Labs: 24-student classlab is the desired planning module. Increase size to 1,200 nsf. Need 1 additional for future.

Prep / Storage (SL428 & 428B) should be 50-100% larger than current.

Research Labs: DNA Research Lab must increase to 1,200. Research spaces must be approximately 400 SF.

Research spaces to be near offices.

Would like a shared equipment corridor for the department.

Vivarium should be 2-3 times current SF. Locate on same floor as research / teaching spaces.

Anatomy Classroom: Teaching & storage area should be 2-3 times current SF.

SPACE	EXISTING					NEEDED			NOTES
	Exist. Bldg.	Exist. Rm. #	Qty.	NSF/ Space	Total NSF	Qty.	NSF/ Space	Total NSF	
<b>CENTER FOR MATH &amp; SCIENCE EDUCATION</b>									
Office	LindLH	231	1	255	255	1	255	255	
Office	LindLH	231A	1	107	107	1	107	107	
Office	LindLH	231B	1	159	159	1	159	159	
			3		521	3		521	
Classlab						1	400	400	
			0		0	1		400	
<b>CENTER FOR M&amp;SE TOTAL</b>			<b>3</b>		<b>521</b>	<b>4</b>		<b>921</b>	

SPACE	EXISTING					NEEDED			NOTES
	Exist. Bldg.	Exist. Rm. #	Qty.	NSF/ Space	Total NSF	Qty.	NSF/ Space	Total NSF	
<b>SHARED BUILDING SPACES</b>									
Lobby	SciLab	100A	1	300	300	1	1,500	1,500	
Open Lounge Space						1	2,000	2,000	Student social and study space
			1		300	2		3,500	
Dean's Office Secy / Reception	SciLab	611	1	221	221	1	220	220	
Dean's Office	SciLab	613	1	306	306	1	300	300	
Associate Dean's Office						1	180	180	
Dean's Conference Room	SciLab	606	1	325	325	1	600	600	Existing conference room is too small
Development Director's Office						1	120	120	
Academic Advisor's Office	SciLab	229	1	205	205	3	120	360	
Academic Advisor Support Staff						1	80	80	
Workroom - Office Service						1	100	100	
Storage - Office Supplies						1	100	100	
			4		1,057	11		2,060	
Conference						1	400	400	
Small Conference / Tutoring						8	120	960	
			0		0	9		1,360	
Learning Center	SciLab	228	1	1,729	1,729	1	1,800	1,800	
Testing Center	SciLab	227	1	692	692	1	700	700	
Learning/Testing Office	SciLab	228A	1	108	108	1	120	120	
			3		2,529	3		2,620	
Faculty Lounge						1	400	400	
Faculty Workroom						2	400	800	
Student Lockers						1	300	300	(300) lockers, 4-tier, 12" x 12"
						4		1,500	
Custodial Office	SciLab	136	1	125	125	1	200	200	
Maintenance Storage						1	400	400	
Mail Room						1	200	200	
Service Entrance / Dock						1	600	600	Dock, holding area, trash, recycling
			1		125	4		1,400	
<b>SHARED BLDG SPACES TOTAL</b>			<b>9</b>		<b>4,011</b>	<b>33</b>		<b>12,440</b>	

## 4 Planning Options

# 4: PLANNING OPTIONS

Section 4 contains:

- *Future Planning Parameters, conclusions reached at the end of the feasibility study process that can be used in future planning and programming for the College of Science.*
- *Preliminary Planning Options, on the following pages, that were developed early in the feasibility study process, prior to the decision not to reuse the existing Science Lab Building as general classroom/office space for the College of Science. These options are no longer valid, as they include reuse of the existing Science Lab Building. They are included for reference and also because some of their space and planning information may be helpful in future planning. Each option includes a cost opinion based on the Cost Opinion Assumptions on the next page and earlier cost opinion figures, which pertain to the retrofitting of the existing Science Lab Building.*

## FUTURE PLANNING PARAMETERS

The feasibility study led to the conclusion that the existing Science Lab Building should not be reused. Future planning for the 245,650 GSF for the College of Science should be based on these parameters:

1. A new 130,000 NSF/200,000 GSF science lab building will be constructed on the site of the existing Buildings 3 and 4. This site allows a maximum building size of 200,000 gross square feet, which assumes a building of 3-1/2 floors with each floor at about 57,000 GSF. The University prefers that the new building be no higher than three stories above grade, in order to have an appropriate scale with other buildings in the vicinity.
2. The Lind Lecture Hall will continue to be used for shared general classroom and lecture space for the College of Science. Lind will account for approximately 20,000 NSF/31,000 GSF of COS space needs. This type of space will not need to be included in other College of Science facilities.
3. Utility-intensive COS departments must be located in the new science building, which will be designed with sufficient infrastructure capacity.
4. Each College of Science department should be located in a single building, rather than spread among two or three, to the extent possible.
5. Planning must include options to house the 9,100 NSF/14,000 GSF College of Science space not accommodated in the new science building and Lind Lecture Hall. Engineering Technology and Lampros Hall are two buildings that currently house COS space; these buildings be included in planning options.
6. Future planning may also consider options to house non-COS departments displaced by the demolition of Buildings 3 and 4, totaling approximately 17,000 net square feet, listed below:

<b>Building 3</b>	<b>NSF</b>
Sales Services Technology	3,337
Telecommunications Business Ed.	850
UCAID	897

<b>Building 4</b>	<b>NSF</b>
Electronics	10,363
Learning Support Center	740
Telecommunications Business Ed.	1,019

## PRELIMINARY PLANNING OPTIONS

The Preliminary Planning Options were developed early in the feasibility study process, prior to the decision that the existing Science Lab building should not be reused. They are no longer valid, but are included here for reference, as some of their information may be useful in future planning efforts.

The planning options included these assumptions:

- Current Building 3 and 4 occupants, and COS departments that do not have intensive utility needs, can be located in the retrofitted Science Lab building.
- One or more floors of the existing Science Lab building can be left unfinished as shell space for future use.

## PRELIMINARY PLANNING OPTIONS - COST OPINION ASSUMPTIONS

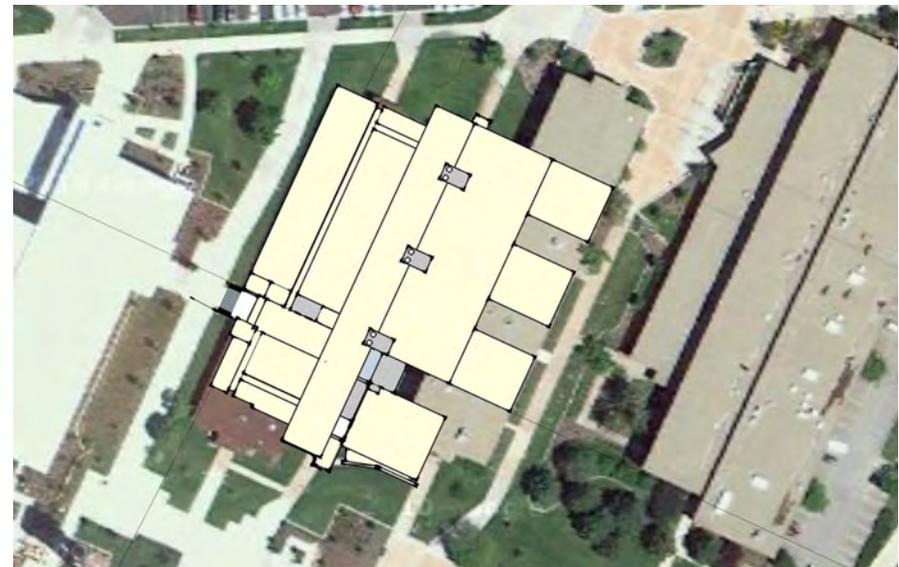
1. The reuse of the Science Lab Building necessitates a building shell retrofit costing approximately \$11,330,000. The retrofit must include:
  - a. Structural/seismic upgrade
  - b. Mechanical system and main trunk line upgrade or replacement
  - c. Electrical system and main trunk line upgrade or replacement
  - d. Exterior skin replacement
  - e. Exterior window replacement
  - f. Existing elevator replacement with two new ADA-compliant traction elevators.
2. If the Science Lab Building is reused, it can be finished on a floor-by-floor, as-needed basis at a cost of \$68/GSF, in addition to the \$11.3 million whole-building retrofit. The \$68/GSF finish cost will include modifications and upgrades needed for each floor's common spaces (lobbies, toilet rooms, stairs, etc.).
3. In order to provide more flexibility in the planning options and costs, there are three cost-reducing alternates to the full Science Lab building retrofit:
  - a. Alternate 1: Do not replace the existing Science Lab building exterior skin.
  - b. Alternate 2: Do not replace the existing Science Lab building exterior skin or windows.
  - c. Alternate 3: Provide 1 new ADA-compliant elevator rather than 2.

- b. Alternate 2: Do not replace the existing Science Lab building exterior skin or windows.
- c. Alternate 3: Provide 1 new ADA-compliant elevator rather than 2.

The chart on the opposite page is a summary of the five Preliminary Planning Options. It includes a brief description of each option, the costs and projected occupants for the existing Science Lab and new science buildings, and the total project cost opinion for the full retrofit and each of the three alternates. Total project cost opinions within the original \$60 million total project cost limit are highlighted in cream.

The costs represented in the Preliminary Planning Options, both new construction and retrofit, are from spring of 2011.

The following pages contain a page for each option with more detail on building occupants, square footages, and costs.



A planning study showed that the site of Buildings 3 & 4 can accommodate a 200,000 GSF building.

PRELIMINARY PLANNING OPTIONS SUMMARY

	Existing Science Lab	New Science Bldg	Total Project Cost - Both Buildings			
			Full Retrofit	Alt. 1*	Alt. 2*	Alt. 3*
<b>Option 1</b>	\$19,149,896	\$40,235,478	\$59,385,374	\$57,292,388	\$56,139,110	\$59,160,374
1. Leave existing TERM in Lampros	Traditional Math	Botany				
2. No TERM in existing Science Lab or New Bldg	M&SE	Chemistry				
3. Retrofit existing Science Lab; finish 59,000 GSF (3 floors)	Bldg 3 Depts.	Geosciences				
4. Build New Building at 167,000 GSF	Bldg 4 Depts.	Microbiology				
		Physics				
		Zoology				
<b>Option 2</b>	\$19,811,897	\$40,235,478	\$60,047,376	\$57,954,389	\$56,801,112	\$59,822,376
1. Leave existing TERM in Lampros	Traditional Math	Botany				
2. Add TERM SF in existing Science Lab	TERM (5K)	Chemistry				
3. Retrofit existing Science Lab; finish 67,000 GSF (3-1/2 floors)	M&SE	Geosciences				
4. Build New Building at 167,000 GSF	Bldg 3 Depts.	Microbiology				
	Bldg 4 Depts.	Physics				
		Zoology				
<b>Option 3</b>	\$20,473,899	\$40,235,478	\$60,709,377	\$58,616,391	\$57,463,114	\$60,484,377
1. Move existing TERM from Lampros to existing Science Lab	Traditional Math	Botany				
2. Add TERM SF in existing Science Lab	TERM (10K)	Chemistry				
3. Retrofit existing Science Lab; finish 74,000 GSF (4 floors)	M&SE	Geosciences				
4. Build New Building at 167,000 GSF	Bldg 3 Depts.	Microbiology				
	Bldg 4 Depts.	Physics				
		Zoology				
<b>Option 4</b>	\$19,811,897	\$42,109,434	\$61,921,331	\$59,828,345	\$58,675,068	\$61,696,331
1. Move existing TERM from Lampros to existing Science Lab	Traditional Math	Botany				
2. Retrofit existing Science Lab; finish 67,000 GSF (3-1/2 floors)	TERM (5K)	Chemistry				
3. Build added TERM SF in New Building	M&SE	Geosciences				
4. Build New Science Building at 175,000 GSF (max for site)	Bldg 3 Depts.	TERM (5K)				
	Bldg 4 Depts.	Microbiology				
		Physics				
		Zoology				
<b>Option 5</b>	\$21,975,813	\$35,983,948	\$57,959,761	\$55,866,774	\$54,713,497	\$57,734,761
1. Move existing TERM from Lampros to existing Science Lab	Geosciences	Botany				
2. Build added TERM SF in existing Science Lab	Traditional Math	Chemistry				
3. Locate Geosciences in existing Science Lab	TERM (10K)	Microbiology				
4. Retrofit existing Science Lab; finish 91,000 GSF (5 floors)	M&SE	Physics				
5. Build New Building at 150,000 GSF	Bldg 3 Depts.	Zoology				
	Bldg 4 Depts.					

**\*Alternates**

- Deductive Alternate 1: Don't replace existing Science Lab exterior skin (deduct \$1.68 million from full retrofit cost).
- Deductive Alternate 2: Don't replace existing Science Lab exterior skin or windows (deduct \$2.6 million from full retrofit cost).
- Deductive Alternate 3: Provide 1 new elevator rather than 2 (deduct \$180,000 from full retrofit cost).

DEPARTMENT	Existing NSF	Projected Growth	Needed NSF	Needed GSF	1 - Lampros Hall 2 - Science Lab 3 - New Building	(Existing - no change) LAMPROS	(Existing - full retrofit) SCIENCE LAB	(New construction) NEW BUILDING	Both Buildings Total
<b>College of Science</b>									<b>OPTION 1</b>
Botany	9,222	28%	11,789	18,137	3	0	0	18,137	
Chemistry	16,926	33%	22,543	34,682	3	0	0	34,682	
Geosciences	8,376	37%	11,455	17,623	3	0	0	17,623	
Math (traditional - no TERM)	14,357	41%	20,311	31,248	2	0	31,248	0	
Math (TERM - existing in Lampros)	5,049	0%	5,049	7,768	1	5,049	0	0	
Math (TERM - additional need)	0	100%	5,049	7,768	0	0	0	0	
Microbiology	7,294	73%	12,646	19,455	3	0	0	19,455	
Physics	11,070	45%	16,008	24,627	3	0	0	24,627	
Zoology	13,775	56%	21,526	33,116	3	0	0	33,116	
M&SE	521	0%	521	802	2	0	802	0	
COS Shared Spaces	4,011	210%	12,440	19,138	3	0	0	19,138	
	90,601	54%	139,337	214,364					
<b>Building 3</b>									
Sales Service Technology	3,337		3,337	5,134	2	0	5,134	0	
Telecommunications Business Ed.	850		850	1,308	2	0	1,308	0	
UCAID	897		897	1,380	2	0	1,380	0	
				7,822					
<b>Building 4</b>									
Electronics	10,363		10,363	15,943	2	0	15,943	0	
Learning Center	740		740	1,138	2	0	1,138	0	
Telecommunications Business Ed.	1,019		1,019	1,568	2	0	1,568	0	
				18,649					
Total Square Feet						<b>5,049</b>	<b>58,520</b>	<b>166,779</b>	
Construction Cost / GSF							\$68	\$193	
Constr Cost - Finished Space							\$3,989,917	\$32,188,383	
Science Lab Building Retrofit							\$11,330,000		
<b>Total Construction Cost</b>							\$15,319,917	\$32,188,383	<b>\$47,508,299</b>
<b>Total Project Cost</b>							\$19,149,896	\$40,235,478	<b>\$59,385,374</b>
<b>Science Lab Retrofit, Alternate 1 - Don't replace exterior skin</b>							13,645,528	32,188,383	<b>\$45,833,910</b>
							\$17,056,910	40,235,478	<b>\$57,292,388</b>
<b>Science Lab Retrofit, Alternate 2 - Don't replace exterior skin or glass</b>							12,722,906	32,188,383	<b>\$44,911,288</b>
							\$15,903,632	40,235,478	<b>\$56,139,110</b>
<b>Science Lab Retrofit, Alternate 3 - Provide 1 new elevator instead of 2</b>							15,139,917	32,188,383	<b>\$47,328,299</b>
							\$18,924,896	40,235,478	<b>\$59,160,374</b>

DEPARTMENT	Existing NSF	Projected Growth	Needed NSF	Needed GSF	1 - Lampros Hall 2 - Science Lab 3 - New Building	(Existing - no change) LAMPROS	(Existing - full retrofit) SCIENCE LAB	(New construction) NEW BUILDING	Both Buildings Total
<b>College of Science</b>									<b>OPTION 2</b>
Botany	9,222	28%	11,789	18,137	3	0	0	18,137	
Chemistry	16,926	33%	22,543	34,682	3	0	0	34,682	
Geosciences	8,376	37%	11,455	17,623	3	0	0	17,623	
Math (traditional - no TERM)	14,357	41%	20,311	31,248	2	0	31,248	0	
Math (TERM - existing in Lampros)	5,049	0%	5,049	7,768	1	5,049	0	0	
Math (TERM - additional need)	0	100%	5,049	7,768	2	0	7,768	0	
Microbiology	7,294	73%	12,646	19,455	3	0	0	19,455	
Physics	11,070	45%	16,008	24,627	3	0	0	24,627	
Zoology	13,775	56%	21,526	33,116	3	0	0	33,116	
M&SE	521	0%	521	802	2	0	802	0	
COS Shared Spaces	4,011	210%	12,440	19,138	3	0	0	19,138	
	90,601	54%	139,337	214,364					
<b>Building 3</b>									
Sales Service Technology	3,337		3,337	5,134	2	0	5,134	0	
Telecommunications Business Ed.	850		850	1,308	2	0	1,308	0	
UCAID	897		897	1,380	2	0	1,380	0	
				7,822					
<b>Building 4</b>									
Electronics	10,363		10,363	15,943	2	0	15,943	0	
Learning Center	740		740	1,138	2	0	1,138	0	
Telecommunications Business Ed.	1,019		1,019	1,568	2	0	1,568	0	
				18,649					
Total Square Feet						<b>5,049</b>	<b>66,288</b>	<b>166,779</b>	
Construction Cost / GSF							\$68	\$193	
Construction Cost							\$4,519,518	\$32,188,383	
Science Lab Building Retrofit							\$11,330,000		
<b>Total Construction Cost</b>							\$15,849,518	\$32,188,383	<b>\$48,037,901</b>
<b>Total Project Cost</b>							\$19,811,897	\$40,235,478	<b>\$60,047,376</b>
<b>Science Lab Retrofit, Alternate 1 - Don't replace exterior skin</b>							14,175,129	32,188,383	<b>\$46,363,512</b>
							\$17,718,911	40,235,478	<b>\$57,954,389</b>
<b>Science Lab Retrofit, Alternate 2 - Don't replace exterior skin or glass</b>							13,252,507	32,188,383	<b>\$45,440,890</b>
							\$16,565,634	40,235,478	<b>\$56,801,112</b>
<b>Science Lab Retrofit, Alternate 3 - Provide 1 new elevator instead of 2</b>							15,669,518	32,188,383	<b>\$47,857,901</b>
							\$19,586,897	40,235,478	<b>\$59,822,376</b>

DEPARTMENT	Existing NSF	Projected Growth	Needed NSF	Needed GSF	1 - Lampros Hall 2 - Science Lab 3 - New Building	(Existing - no change) LAMPROS	(Existing - full retrofit) SCIENCE LAB	(New construction) NEW BUILDING	Both Buildings Total
<b>College of Science</b>									<b>OPTION 3</b>
Botany	9,222	28%	11,789	18,137	3	0	0	18,137	
Chemistry	16,926	33%	22,543	34,682	3	0	0	34,682	
Geosciences	8,376	37%	11,455	17,623	3	0	0	17,623	
Math (traditional - no TERM)	14,357	41%	20,311	31,248	2	0	31,248	0	
Math (TERM - existing in Lampros)	5,049	0%	5,049	7,768	2	0	7,768	0	
Math (TERM - additional need)	0	100%	5,049	7,768	2	0	7,768	0	
Microbiology	7,294	73%	12,646	19,455	3	0	0	19,455	
Physics	11,070	45%	16,008	24,627	3	0	0	24,627	
Zoology	13,775	56%	21,526	33,116	3	0	0	33,116	
M&SE	521	0%	521	802	2	0	802	0	
COS Shared Spaces	4,011	210%	12,440	19,138	3	0	0	19,138	
	90,601	54%	139,337	214,364					
<b>Building 3</b>									
Sales Service Technology	3,337		3,337	5,134	2	0	5,134	0	
Telecommunications Business Ed.	850		850	1,308	2	0	1,308	0	
UCAID	897		897	1,380	2	0	1,380	0	
				7,822					
<b>Building 4</b>									
Electronics	10,363		10,363	15,943	2	0	15,943	0	
Learning Center	740		740	1,138	2	0	1,138	0	
Telecommunications Business Ed.	1,019		1,019	1,568	2	0	1,568	0	
				18,649					
Total Square Feet						<b>0</b>	<b>74,056</b>	<b>166,779</b>	
Construction Cost / GSF							\$68	\$193	
Construction Cost							\$5,049,119	\$32,188,383	
Science Lab Building Retrofit							\$11,330,000		
<b>Total Construction Cost</b>							\$16,379,119	\$32,188,383	<b>\$48,567,502</b>
<b>Total Project Cost</b>							\$20,473,899	\$40,235,478	<b>\$60,709,377</b>
<b>Science Lab Retrofit, Alternate 1 - Don't replace exterior skin</b>							14,704,730	32,188,383	<b>\$46,893,113</b>
							\$18,380,913	40,235,478	<b>\$58,616,391</b>
<b>Science Lab Retrofit, Alternate 2 - Don't replace exterior skin or glass</b>							13,782,108	32,188,383	<b>\$45,970,491</b>
							\$17,227,635	40,235,478	<b>\$57,463,114</b>
<b>Science Lab Retrofit, Alternate 3 - Provide 1 new elevator instead of 2</b>							16,199,119	32,188,383	<b>\$48,387,502</b>
							\$20,248,899	40,235,478	<b>\$60,484,377</b>

DEPARTMENT	Existing NSF	Projected Growth	Needed NSF	Needed GSF	1 - Lampros Hall 2 - Science Lab 3 - New Building	(Existing - no change) LAMPROS	(Existing - full retrofit) SCIENCE LAB	(New construction) NEW BUILDING	Both Buildings Total
<b>College of Science</b>									<b>OPTION 4</b>
Botany	9,222	28%	11,789	18,137	3	0	0	18,137	
Chemistry	16,926	33%	22,543	34,682	3	0	0	34,682	
Geosciences	8,376	37%	11,455	17,623	3	0	0	17,623	
Math (traditional - no TERM)	14,357	41%	20,311	31,248	2	0	31,248	0	
Math (TERM - existing in Lampros)	5,049	0%	5,049	7,768	3	0	0	7,768	
Math (TERM - additional need)	0	100%	5,049	7,768	2	0	7,768	0	
Microbiology	7,294	73%	12,646	19,455	3	0	0	19,455	
Physics	11,070	45%	16,008	24,627	3	0	0	24,627	
Zoology	13,775	56%	21,526	33,116	3	0	0	33,116	
M&SE	521	0%	521	802	2	0	802	0	
COS Shared Spaces	4,011	210%	12,440	19,138	3	0	0	19,138	
	90,601	54%	139,337	214,364					
<b>Building 3</b>									
Sales Service Technology	3,337		3,337	5,134	2	0	5,134	0	
Telecommunications Business Ed.	850		850	1,308	2	0	1,308	0	
UCAID	897		897	1,380	2	0	1,380	0	
				7,822					
<b>Building 4</b>									
Electronics	10,363		10,363	15,943	2	0	15,943	0	
Learning Center	740		740	1,138	2	0	1,138	0	
Telecommunications Business Ed.	1,019		1,019	1,568	2	0	1,568	0	
				18,649					
Total Square Feet						0	66,288	174,547	
Construction Cost / GSF							\$68	\$193	
Construction Cost							\$4,519,518	\$33,687,547	
Science Lab Building Retrofit							\$11,330,000		
<b>Total Construction Cost</b>							\$15,849,518	\$33,687,547	<b>\$49,537,065</b>
<b>Total Project Cost</b>							\$19,811,897	\$42,109,434	<b>\$61,921,331</b>
<b>Science Lab Retrofit, Alternate 1 - Don't replace exterior skin</b>							14,175,129	33,687,547	<b>\$47,862,676</b>
							\$17,718,911	42,109,434	<b>\$59,828,345</b>
<b>Science Lab Retrofit, Alternate 2 - Don't replace exterior skin or glass</b>							13,252,507	33,687,547	<b>\$46,940,054</b>
							\$16,565,634	42,109,434	<b>\$58,675,068</b>
<b>Science Lab Retrofit, Alternate 3 - Provide 1 new elevator instead of 2</b>							15,669,518	33,687,547	<b>\$49,357,065</b>
							\$19,586,897	42,109,434	<b>\$61,696,331</b>

DEPARTMENT	Existing NSF	Projected Growth	Needed NSF	Needed GSF	1 - Lampros Hall 2 - Science Lab 3 - New Building	(Existing - no change) LAMPROS	(Existing - full retrofit) SCIENCE LAB	(New construction) NEW BUILDING	Both Buildings Total
<b>College of Science</b>									<b>OPTION 5</b>
Botany	9,222	28%	11,789	18,137	3	0	0	18,137	
Chemistry	16,926	33%	22,543	34,682	3	0	0	34,682	
Geosciences	8,376	37%	11,455	17,623	2	0	17,623	0	
Math (traditional - no TERM)	14,357	41%	20,311	31,248	2	0	31,248	0	
Math (TERM - existing in Lampros)	5,049	0%	5,049	7,768	2	0	7,768	0	
Math (TERM - additional need)	0	100%	5,049	7,768	2	0	7,768	0	
Microbiology	7,294	73%	12,646	19,455	3	0	0	19,455	
Physics	11,070	45%	16,008	24,627	3	0	0	24,627	
Zoology	13,775	56%	21,526	33,116	3	0	0	33,116	
M&SE	521	0%	521	802	2	0	802	0	
COS Shared Spaces	4,011	210%	12,440	19,138	3	0	0	19,138	
	90,601	54%	139,337	214,364					
<b>Building 3</b>									
Sales Service Technology	3,337		3,337	5,134	2	0	5,134	0	
Telecommunications Business Ed.	850		850	1,308	2	0	1,308	0	
UCAID	897		897	1,380	2	0	1,380	0	
				7,822					
<b>Building 4</b>									
Electronics	10,363		10,363	15,943	2	0	15,943	0	
Learning Center	740		740	1,138	2	0	1,138	0	
Telecommunications Business Ed.	1,019		1,019	1,568	2	0	1,568	0	
				18,649					
Total Square Feet						0	91,679	149,156	
Construction Cost / GSF							\$68	\$193	
Construction Cost							\$6,250,650	\$28,787,158	
Science Lab Building Retrofit							\$11,330,000		
<b>Total Construction Cost</b>							\$17,580,650	\$28,787,158	<b>\$46,367,809</b>
<b>Total Project Cost</b>							\$21,975,813	\$35,983,948	<b>\$57,959,761</b>
<b>Science Lab Retrofit, Alternate 1 - Don't replace exterior skin</b>							15,906,261	28,787,158	<b>\$44,693,420</b>
							\$19,882,826	35,983,948	<b>\$55,866,774</b>
<b>Science Lab Retrofit, Alternate 2 - Don't replace exterior skin or glass</b>							14,983,639	28,787,158	<b>\$43,770,798</b>
							\$18,729,549	35,983,948	<b>\$54,713,497</b>
<b>Science Lab Retrofit, Alternate 3 - Provide 1 new elevator instead of 2</b>							17,400,650	28,787,158	<b>\$46,187,809</b>
							\$21,750,813	35,983,948	<b>\$57,734,761</b>



## 5 Cost Opinion

## 5: COST OPINION

*This section contains cost opinions for the construction of a new science building and the retrofit of the existing Science Lab building. The new construction costs are in current (Spring 2012) dollars.*

*The cost opinion for the Science Lab Building retrofit was instrumental in evaluating the feasibility of reusing the building for College of Science general classroom and office space.*

### NEW SCIENCE BUILDING:

A new science building is estimated to cost approximately \$235 per gross square foot for building construction and minor site development. The breakdown of costs for the new science building begins on page 5.2.

The State's Capital Budget Estimate (CBE) for the project begins on page 5.10.

### EXISTING SCIENCE LAB RETROFIT:

The existing Science Lab building cost opinion has two elements:

1. **A building shell retrofit for approximately \$11.3 million which will include:**
  - a. Structural / seismic upgrade
  - b. Mechanical system and main trunk line upgrade or replacement
  - c. Electrical system and main trunk line upgrade or replacement
  - d. Exterior skin replacement
  - e. Exterior window replacement
  - f. Existing elevator replacement with two new ADA-compliant traction elevators.

2. **Finish of interior space on a floor-by-floor, as-needed basis at a cost of \$68 / GSF.** The \$68 / GSF finish cost includes modifications and upgrades needed for each floor's common spaces (lobbies, toilet rooms, stairs, etc.).

There are three cost-reducing alternates to the full Science Lab building retrofit:

- Alternate 1: Do not replace the existing Science Lab building exterior skin.
- Alternate 2: Do not replace the existing Science Lab building exterior skin or windows.
- Alternate 3: Provide 1 new ADA-compliant elevator rather than 2.

The breakdown of costs for the Science Lab building retrofit begins on page 5.12. This cost opinion was developed in spring of 2011.



## NEW SCIENCE BUILDING - COST OPINION SUMMARY

NEW SCIENCE BUILDING WEBER STATE UNIVERSITY COST OPINION by: MHTN - COST CONTROL COST OPINION: PRE-CONSTRUCTION-DETAILED		Gross Square Feet	200,000
		MAY 29 2012	CONSTRUCTION START MID 2013
NEW SCIENCE BUILDING	COST PER SF	TOTAL	
SITE WORK IMPROVEMENTS	\$ 7.77	\$ 1,554,689	
EARTH WORK UNDER THE BUILDING	\$ 4.22	\$ 843,617	
CONCRETE	\$ 6.29	\$ 1,257,179	
MASONRY/ EXTERIOR SKIN	\$ 13.21	\$ 2,641,323	
METALS	\$ 19.31	\$ 3,861,563	
WOODS AND PLASTICS	\$ 11.92	\$ 2,383,164	
THERMAL AND MOISTURE PROTECTION	\$ 5.50	\$ 1,100,086	
DOORS AND WINDOWS	\$ 9.52	\$ 1,904,700	
FINISH	\$ 23.23	\$ 4,645,380	
SPECIALTIES	\$ 6.11	\$ 1,221,116	
EQUIPMENT	\$ 1.59	\$ 317,996	
CONVEYING SYSTEMS	\$ 2.25	\$ 450,000	
MECHANICAL	\$ 51.50	\$ 10,300,789	
ELECTRICAL	\$ 27.77	\$ 5,554,204	
	<u>\$ 190.18</u>	<u>\$ 38,035,807</u>	
UNDEFINED BUILDING ELEMENTS	\$ 19.02	10.00%	\$ 3,803,581
INFLATION TO 2013	\$ 7.61	4.00%	\$ 1,521,432
GENERAL CONDITIONS	\$ 9.51	5.00%	\$ 1,901,790
BONDING	\$ 1.90	1.00%	\$ 380,358
PROFIT AND OVERHEAD	\$ 6.66	3.50%	\$ 1,331,253
CONSTRUCTION SUB TOTAL	<u>\$ 234.87</u>		<u>\$ 46,974,222</u>

NEW SCIENCE BUILDING - COST BREAKDOWN



**SITE WORK**

**EARTH WORK**

CLEAR AND ROUGH GRADE	100000 SF	\$	0.26	\$	26,000
ALLOW FOR SITE CUT AND FILL	7407 CY	\$	8.32	\$	61,630
FINISH GRADE	100000 SF	\$	0.16	\$	15,600
HAUL OFF SITE	3704 CY	\$	7.28	\$	26,963
DEMOLITION AND HAZARDOUS MATERIALS	1 SUM	\$	600,000.00	\$	600,000

**SITE IMPROVEMENTS**

HARDSCAPE, PAVING	40000 SF	\$	5.20	\$	208,000
SOFTSCAPE, PLANTING	26667 SF	\$	2.60	\$	69,333
* FLAGPOLE 30'	1 EA	\$	2,964.00	\$	2,964
* PIPE BOLLARDS ACCESS CONTROL ALLOW)	10 EA	\$	223.60	\$	2,236
STRIPING FOR ASPHALT	1 SUM	\$	1,144.00	\$	1,144
MAIN SITE SIGN (COMPANY NAME ETC.)	1 EA	\$	7,800.00	\$	7,800
TREES 2 1/2" ALLOW 1 PER 3500 SF SITE	20 EA	\$	286.00	\$	5,720

**SITE UTILITIES**

WATER DISTRIBUTION	200 LF	\$	46.80	\$	9,360
ALLOW SITE UTILITIES MOVMENT & PROTECTION	1 SUM	\$	350,000.00	\$	350,000
SEWERAGE	200 LF	\$	46.80	\$	9,360
FIRE HYDRANT (ALLOW)	2 EA	\$	4,045.60	\$	8,091
SITE DRAINAGE	40000 EA	\$	0.57	\$	22,880
MANHOLE (ALLOW)	2.0 EA	\$	5,044.00	\$	10,088
WATER METER VAULT	200000 SF	\$	0.16	\$	31,200
ELECTRICAL DISTRIBUTION	200 LF	\$	140.40	\$	28,080
GAS DISTRIBUTION	200 LF	\$	31.20	\$	6,240
SITE LIGHTING	100000 SF	\$	0.52	\$	52,000
				<b>\$</b>	<b>1,554,689</b>



## NEW SCIENCE BUILDING - COST BREAKDOWN

**EARTH WORK AT BUILDING**

CUT WORK AT BUILDING FOOTINGS	709 CY	\$	9.36	\$	6,637
CUT WORK AT BUILDING FLOOR	2469 CY	\$	9.36	\$	23,111
BACKFILL	709 CY	\$	12.48	\$	8,849
HAUL OFF SITE OR SPREAD ON SITE	2469 CY	\$	7.28	\$	17,975
ADD FOR STURCTURAL SOIL	166667 SF	\$	4.50	\$	750,000
STRUCTURAL FILL UNDER FOOTINGS	385 CY	\$	22.88	\$	8,798
STRUCTURAL FILL UNDER FLOOR SLAB	1235 CY	\$	22.88	\$	28,247
				<b>\$</b>	<b>843,617</b>

**CONCRETE**

CONTINUOUS FOOTING	162 CY	\$	312.00	\$	50,634
SPOT FOOTINGS	222 EA	\$	312.00	\$	69,333
GRADE BEAM/INTERIOR FOOTINGS	41 CY	\$	364.00	\$	14,768
ELEVATOR PIT, CONCRETE	7 EA	\$	3,640.00	\$	25,480
SLAB ON GRADE 4" W/ GRAVEL BASE AND 6" X 6" WWF REINFORCING	33333 SF	\$	5.20	\$	173,333
FOUNDATION WALL 8" TO 12" THICK 2' 6" H	2191 SF	\$	26.00	\$	56,963
SUSPENDED FLOOR	166667 SF	\$	5.20	\$	866,667
				<b>\$</b>	<b>1,257,179</b>

**MASONRY / EXTERIOR SKIN**

EXTERIOR FINISH	58891 SF	\$	43.52	\$	2,562,942
PARAPET FINISH AND WALL	1753 SF	\$	44.72	\$	78,381
				<b>\$</b>	<b>2,641,323</b>

NEW SCIENCE BUILDING - COST BREAKDOWN



**METALS**

COLUMNS WF SHAPES	150.0 TON	\$	3,120.00	\$	468,000
SUSPENDED FLOOR STRUCTURE WF and joist	666.7 TON	\$	3,120.00	\$	2,080,000
ROOF STRUCTURE JOIST	116.7 TON	\$	3,120.00	\$	364,000
ANGLE AT EXTERIOR WALL	5258 LF	\$	22.88	\$	120,306
MISC. STEEL	15.0 TON	\$	4,680.00	\$	70,200
ROOF DECK	33333 SF	\$	2.86	\$	95,333
FLOOR DECK	166667 SF	\$	2.86	\$	476,667
STEEL LADDER TO ROOF	16 LF	\$	91.52	\$	1,464
WALL CAP	876 LF	\$	13.00	\$	11,393
ALLOW FOR ENTRY CANOPY COMPLETE	500 SF	\$	88.40	\$	44,200
METAL STAIR AND RAILINGS	10.0 FLT	\$	13,000.00	\$	130,000
					<b>\$ 3,861,563</b>

**WOOD AND PLASTICS**

WALL PLATES BOLTED AND SHAPED	1586 LF	\$	4.16	\$	6,598
MISC. ROUGH CARPENTRY	200000 SF	\$	0.26	\$	52,000
UPPER CABINETS GLASS DOORS	609 LF	\$	197.60	\$	120,262
UPPER CABINETS W/ DOORS	811 LF	\$	140.40	\$	113,933
CHEMICAL RACKS	913 LF	\$	140.40	\$	128,174
RECEPTION DESK	25 LF	\$	390.00	\$	9,750
MISC. CASEWORK	200 LF	\$	416.00	\$	83,200
TEACHING AND LABORATORY CASEWORK METAL WITH SOLID CHEM-RESISTANT TOP	2029 LF	\$	598.00	\$	1,213,173
VANITY - SOLID SURFACE	96 LF	\$	171.60	\$	16,474
ENTRY RECEPTION DESK	200000 SF	\$	0.08	\$	15,600
MISC. CASEWORK & FINISH CARPENTRY	200000 SF	\$	3.12	\$	624,000
					<b>\$ 2,383,164</b>



## NEW SCIENCE BUILDING - COST BREAKDOWN

**THERMAL AND MOISTURE PROTECTION**

FOUNDATION INSULATION	2191 SF	\$	1.56	\$	3,418
EXTERIOR WALL INSULATION	58891 SF	\$	1.50	\$	88,337
SOUND INSULATION (ALLOW)	300000 SF	\$	0.62	\$	187,200
ROOFING	35000 SF	\$	3.12	\$	109,200
ROOF INSULATION RIGID	33333 SF	\$	2.60	\$	86,667
ROOF CRICKETS	3333 SF	\$	2.60	\$	8,667
ALLOW FOR ROOF TOP MECHANICAL COVER	7000 SF	\$	83.20	\$	582,400
ROOFING SPECIALTIES	33333 SF	\$	0.10	\$	3,467
SOFFIT FINISH, METAL PANEL( ALLOW )	600 SF	\$	18.72	\$	11,232
ALLOW FOR SEALANT	15000 LF	\$	1.30	\$	19,500
					<b>\$ 1,100,086</b>

**DOORS AND WINDOWS**

DOORS EXTERIOR STORE FRONT AND SIDE LITE					
COMPLETE HARDWARE, 6' X 7'	12 EA	\$	3,411.20	\$	40,934
DOORS INTERIOR WOOD OR HOLLOW METAL					
COMPLETE HARDWARE, PAINTED	400 EA	\$	1,196.00	\$	478,400
POWER OPERATOR (PAIR)	2 EA	\$	3,380.00	\$	6,760
SECURITY DOOR ACCESS ALCAN # W RECORD	160 EA	\$	410.80	\$	65,728
LEAD SHIELDED DOOR 3' X 7'	0 EA	\$	3,411.20	\$	-
DARK ROOM DOOR HC 3' 6" ROUND	1 EA	\$	3,692.00	\$	3,692
ROLL UP DOORS AT DOCK	6 EA	\$	3,952.00	\$	22,583
ALLOW FOR CEILING ACCESS PANELS	40 EA	\$	130.00	\$	5,200
INTERIOR GLASS AND GLAZING	3200 SF	\$	39.52	\$	126,464
WINDOW WALL GLAZING SYSTEM	25239 SF	\$	45.76	\$	1,154,939
					<b>\$ 1,904,700</b>

NEW SCIENCE BUILDING - COST BREAKDOWN



**FINISH**

EXTERIOR METAL STUDS 6" LB	50478 SF	\$	3.64	\$	183,740
INTERIOR WALLS STUDS GYP. TWO SIDES	300000 SF	\$	7.28	\$	2,184,000
GYP FINISHED AT EXTERIOR WALL	50478 SF	\$	1.82	\$	91,870
GYP SHEATHING AT EXTERIOR WALL	50478 SF	\$	1.61	\$	81,371
FRAME, GYP, FINISH POWER DROPS	81 EA	\$	520.00	\$	42,197
FRAMING AND GYP AT SOFFIT - metal panels	600 SF	\$	46.80	\$	28,080
FLOOR FINISH CHEMICAL RESISTANT VINYL	125,615 SF	\$	5.72	\$	718,520
FLOOR FINISH QUARRY TILE	0 SF	\$	16.64	\$	-
FLOOR FINISH CARPET	4,701 SY	\$	36.40	\$	171,111
FLOOR FINISH VCT	26,538 SF	\$	3.12	\$	82,800
FLOOR FINISH CONCRETE SEALED	10,154 SF	\$	2.08	\$	21,120
WALL FINISH PAINT	243077 SF	\$	0.66	\$	159,264
CEILING LAY IN TILE OR EXPOSED PAINTED	282470 SF	\$	3.12	\$	881,307
					<b>\$ 4,645,380</b>

**SPECIALTIES**

FIRE EXTINGUISHER IN CABINET	18 EA	\$	244.40	\$	4,399
RAISED COMPUTER FLOORING	1200 SF	\$	18.72	\$	22,464
CLASSROOM CHALK AND TACK	79 EA	\$	780.00	\$	61,620
HALLWAY WALL BUMPERS	757 LF	\$	17.16	\$	12,999
STAINLESS STEEL CORNER PROTECTORS 4'	170 EA	\$	187.20	\$	31,827
GREEN HOUSE COMPLETE	2500 SF	\$	280.00	\$	700,000
TOILET PARTITIONS	36 EA	\$	936.00	\$	33,696
BATHROOM SPECIALTIES	12 EA	\$	1,300.00	\$	15,600
GROWTH CHAMBERS AND EQUIPMENT	1422 SF	\$	200.00	\$	284,400
JANITOR SHELVING	6 EA	\$	150.80	\$	905
TRAFFIC MATT	80 SF	\$	15.08	\$	1,206
SIGNAGE ALLOW	400 EA	\$	130.00	\$	52,000
					<b>\$ 1,221,116</b>



## NEW SCIENCE BUILDING - COST BREAKDOWN

**EQUIPMENT**

WINDOW BLINDS (ALLOW 80%)	20191 SF	\$	4.16	\$	83,996
DOCK EQUIPMENT	200000 EA	\$	0.26	\$	52,000
BIOLOGICAL FUME HOODS 4' TO 6' WITH BASE	15 EA	\$	8,840.00	\$	132,600
CHEMICAL FUME HOODS 4' TO 6' WITH BASE	1 EA	\$	8,840.00	\$	8,840
BREAK ROOM EQUIPMENT	6.0 EA	\$	6,760.00	\$	40,560
					<b>\$ 317,996</b>

**CONVEYING SYSTEMS**

	1				
ELEVATOR SIZE AND SPEED NEEDED	200000 SF	\$	2.25	\$	450,000
					<b>\$ 450,000</b>

**MECHANICAL**

PLUMBING	200000 SF	\$	4.16	\$	832,000
SOLAR HOT WATER	200000 SF	\$	0.57	\$	114,400
HAZARDOUS MATERIAL DRAINAGE / STORAGE	144846 SF	\$	0.57	\$	82,852
DI WATER SYSTEM	0 SF	\$	2.08	\$	-
EMERGENCY EYEWASH AND SHOWERS	22 EA	\$	1,248.00	\$	27,456
GAS - AIR - VAC	30000 SF	\$	22.88	\$	686,400
HVAC SYSTEM	212518 SF	\$	41.60	\$	7,673,608
FIRE SPRINKLER	212518 SF	\$	4.16	\$	884,074
TOTAL		\$	48.47	\$	<b>10,300,789</b>

NEW SCIENCE BUILDING - COST BREAKDOWN 

**ELECTRICAL**

SITE LIGHTING				
MAIN DISTRIBUTION	212518 SF	\$	3.12	\$ 663,055
BRANCH CONDUIT AND WIRE	212518 SF	\$	5.20	\$ 1,105,092
POWER DISTRIBUTION	212518 SF	\$	2.08	\$ 442,037
LIGHTING	212518 SF	\$	5.72	\$ 1,215,601
LIGHTING CONTROL	212518 SF	\$	1.04	\$ 221,018
ALARM SYSTEMS	212518 SF	\$	1.04	\$ 221,018
SECURITY SYSTEMS	212518 SF	\$	2.08	\$ 442,037
PHONE AND DATA	212518 SF	\$	2.08	\$ 442,037
SECURITY CAMERAS	10 EA	\$	3,406.00	\$ 34,060
SECURITY DOOR CONTROL	60 EA	\$	2,750.80	\$ 165,048
GENERATOR	1 EA	\$	603,200	\$ 603,200
				<u>\$ 5,554,204</u>

Capital Development Projects  
CBE Details

Capital Development Projects  
Capital Budget Estimate (CBE)

<b>Project Name:</b> SCIENCE LAB BUILDING			
<b>Agency/Institution:</b> WEBER STATE UNIVERSITY			
<b>Project Manager:</b> Mueller			
<b>Cost Summary</b>			
	<b>\$ Amount</b>	<b>Cost Per SF</b>	<b>Notes</b>
Facility Cost	\$ 47,080,414	\$235.40	
Utility Fee Cost	\$ 306,247	\$1.53	
Additional Construction Cost	\$ 715,008	\$3.58	
Site Cost	\$ -	\$0.00	
High Performance Building	\$ -	\$0.00	
<b>Total Construction Cost</b>	<b>\$ 48,101,668</b>	<b>\$240.51</b>	
<b>Soft Costs:</b>			
Hazardous Materials	\$ 252,500		
Pre-Design/Planning	\$ 490,000		
Design	\$ 3,485,254		
Property Acquisition	\$ -		
Furnishings & Equipment	\$ 4,730,000		
Information Technology:	\$ 2,200,000		
Utah Art (1% of Construction Budget)	\$ 481,017		
Testing & Inspection	\$ 355,000		
Contingency	\$ 2,195,044		
Moving/Occupancy	\$ -		
Builder's Risk Insurance (0.15% of Construction Budget)	\$ 72,153		
Legal Services (0.05% of Construction Budget)	\$ 24,051		
DFCM Management	\$ -		
User Fees	\$ -		
Commissioning	\$ 600,000		
Other Costs	\$ 245,000		
<b>Total Soft Costs</b>	<b>\$ 15,130,018</b>	<b>\$75.65</b>	
<b>TOTAL PROJECT COST</b>	<b>\$ 63,231,686</b>	<b>\$316.16</b>	
<b>Previous Funding</b>	\$ -		
<b>Other Funding Sources (Identify in note)</b>	\$ -		
<b>REQUEST FOR STATE FUNDING</b>	<b>\$63,231,686</b>		
<b>Project Information</b>			
Gross Square Feet	200,001	Base Cost Date	1-Sep-11
Net Square Feet	130,000	Estimated Bid Date	30-Sep-13
Net/Gross Ratio	65%	Est. Completion Date	31-Dec-14
		Last Modified Date	0-Jan-00
		Print Date	5/31/2012

<b>Project Name:</b> SCIENCE LAB BUILDING					
<b>Agency/Institution:</b> WEBER STATE UNIVERSITY					
<b>Project Manager:</b> Mueller					
<b>Description</b>	<b>Explanation</b>	<b>Units</b>	<b>Unit Cost</b>	<b>Cost</b>	<b>Escalated Cost</b>
<b>Facility Cost</b>		<b>GSF</b>			
<b>New Facility Cost Details:</b>					
Offices		14,979	\$ 200	\$ 2,995,800	\$ 3,058,178
Class labs		54,063	\$ 275	\$ 14,867,325	\$ 15,176,891
Research labs		18,038	\$ 350	\$ 6,313,300	\$ 6,444,755
Support space		10,916	\$ 180	\$ 1,964,880	\$ 2,005,793
Storage		9,218	\$ 150	\$ 1,382,700	\$ 1,411,490
Greehouse		2,086	\$ 250	\$ 521,500	\$ 532,359
Vivarium		1,422	\$ 400	\$ 568,800	\$ 580,644
Classrooms		19,279	\$ 200	\$ 3,855,800	\$ 3,936,085
Building efficiency		70,000	\$ 195	\$ 13,650,000	\$ 13,934,219
<b>The above costs include site and high performance costs.</b>					
Schedule for the project is: 1- March 2012 funds available; 2- Two months for programming selection; 3- Five months for programming; 4- Two months for AE selection; 5- Eight months for design; 6- Two months for contractor selection; 7- 15 months for construction					
<b>Subtotal - New Facility Costs</b>		<b>200,001</b>		<b>\$ 46,120,105</b>	<b>\$ 47,080,414</b>
<b>Remodel Facility Cost Details:</b>					
				\$ -	\$ -
				\$ -	\$ -
				\$ -	\$ -
				\$ -	\$ -
				\$ -	\$ -
				\$ -	\$ -
<b>Subtotal - Remodel Facility Costs</b>		<b>-</b>		<b>\$ -</b>	<b>\$ -</b>
<b>TOTAL FACILITY COST</b>		<b>200,001</b>		<b>\$ 46,120,105</b>	<b>\$ 47,080,414</b>
<b>Utility Cost Details:</b>					
Water Utility Fee				\$ -	\$ -
Sewer Utility Fee				\$ -	\$ -
Electricity Utility Fee				\$ -	\$ -
Storm Sewer Utility Fee				\$ -	\$ -
Connection Fees		1	\$ 50,000	\$ 50,000	\$ 51,041
	All utility fees	1	\$ 250,000	\$ 250,000	\$ 255,205
<b>TOTAL UTILITY FEE COST</b>				<b>\$ 300,000</b>	<b>\$ 306,247</b>
<b>Additional Construction Cost Details:</b>					
	Demolish Bldg 3 (masonry structure)	19,208	\$ 4	\$ 67,228	\$ 68,628
	Demolish Bldg 4 (masonry structure)	40,432	\$ 4	\$ 141,512	\$ 144,459
	Demolish existing Science Lab Bldg (concrete structure)	109,263	\$ 5	\$ 491,684	\$ 501,921
				\$ -	\$ -
				\$ -	\$ -
				\$ -	\$ -
<b>TOTAL ADDITIONAL CONSTRUCTION COST</b>				<b>\$ 700,424</b>	<b>\$ 715,008</b>
<b>Site Cost Details:</b>					
				\$ -	\$ -
				\$ -	\$ -
				\$ -	\$ -
				\$ -	\$ -
				\$ -	\$ -
				\$ -	\$ -
				\$ -	\$ -
				\$ -	\$ -
<b>TOTAL SITE COST</b>				<b>\$ -</b>	<b>\$ -</b>
<b>HIGH PERFORMANCE BUILDING</b>	If N/A, change YES to NO. To supercede 1-1/2% calculation enter amount in unit cost	<b>NO</b>		<b>\$ -</b>	<b>\$ -</b>
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 47,120,529</b>	<b>\$ 48,101,668</b>

Capital Development Projects  
CBE Details

Capital Development Projects  
CBE Details

<b>OTHER PROJECT INFORMATION:</b>				
Total Net Square Feet:	130,000			
Base Cost Date:	9/1/2011			
Estimated Bid Date:	9/30/2013			
Estimated Completion Date:	12/31/2014			
Last Modified Date:				
Inflation Escalation Factor Included:	1.00%			
Location Factor Included:	0.00%			
<b>Hazardous Materials Cost Details:</b>				
Pre-Construction Survey			\$ -	\$ -
Plan and Monitoring			\$ -	\$ -
Abatement/Removal			\$ -	\$ -
	Total abatement costs for bldgs to be demolished	1	\$ 250,000	\$ 250,000
			\$ -	\$ -
<b>TOTAL HAZARDOUS MATERIALS COST</b>			<b>\$ 250,000</b>	<b>\$ 252,500</b>
<b>Pre-Design/Planning:</b>				
Planning Fund Reimbursement			\$ -	\$ -
Programming	Programming services w/ specialty consultants (lab, AV, etc.)	1	\$ 450,000	\$ 450,000
Environmental Assessment			\$ -	\$ -
Geotechnical Investigation/Surveys	Geotech	1	\$ 20,000	\$ 20,000
	Site survey	1	\$ 20,000	\$ 20,000
<b>TOTAL PRE-DESIGN/PLANNING COST</b>			<b>\$ 490,000</b>	
<b>Design Costs:</b>				
<b>A/E Design Fees</b>				
	Basic design @ 4.75%	1	\$ 2,285,000	\$ 2,285,000
	Complexity @ 2%	1	\$ 965,000	\$ 965,000
	Reimbursements for consultant travel	1	\$ 50,000	\$ 50,000
	LEED @ \$800 per point @ 55 points	1	\$ 45,000	\$ 45,000
			\$ -	\$ -
<b>Total A/E Design Fees</b>			<b>\$ 3,345,000</b>	
Additional Printing Costs	Additional contract document sets	20	\$ 1,000	\$ 20,000
High Performance Design	If N/A, change YES to NO. To supercede 1/4% calculation enter amount in unit cost	YES		<b>\$ 120,254</b>
Value Management Costs			\$ -	\$ -
<b>TOTAL DESIGN COST</b>			<b>\$ 3,485,254</b>	
<b>Property Acquisition:</b>				
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
<b>TOTAL PROPERTY ACQUISITION COST</b>			<b>\$ -</b>	
<b>Furnishings &amp; Equipment Costs:</b>				
<b>Furnishings Detail:</b>				
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
<b>Total Furnishings</b>			<b>\$ -</b>	
<b>Equipment Detail:</b>				
	All FF&E	130,000	\$ 34.00	\$ 4,420,000
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
<b>Total Equipment</b>			<b>\$ 4,420,000</b>	
FF&E Design Costs	Design @ 6%	1	\$ 270,000	\$ 270,000
	Reimbursements	1	\$ 40,000	\$ 40,000
<b>TOTAL FURNISHINGS &amp; EQUIPMENT COSTS</b>			<b>\$ 4,730,000</b>	

<b>Information Technology Costs:</b>				
	Infotech/AV systems	1	\$ 2,200,000	\$ 2,200,000
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
<b>TOTAL INFORMATION TECHNOLOGY COST</b>			<b>\$ 2,200,000</b>	
<b>UTAH ART</b>				
	If N/A, change YES to NO. To supercede 1% calculation enter amount in unit cost	YES		<b>\$ 481,017</b>
<b>Testing &amp; Inspection Costs:</b>				
Building Code Inspection		1	\$ 160,000	\$ 160,000
Material Testing		1	\$ 160,000	\$ 160,000
Special Inspections	Structural plan reviews	1	\$ 30,000	\$ 30,000
			\$ 5,000	\$ 5,000
<b>TOTAL TESTING &amp; INSPECTION COSTS</b>			<b>\$ 355,000</b>	
<b>Moving/Occupance Costs:</b>				
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
<b>TOTAL MOVING/OCCUPANCY COSTS</b>			<b>\$ -</b>	
<b>DFCM Management:</b>				
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
<b>TOTAL DFCM MANAGEMENT</b>			<b>\$ -</b>	
<b>User Fees:</b>				
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
<b>TOTAL USER FEES</b>			<b>\$ -</b>	
<b>Commissioning:</b>				
	Design to construction completion	1	\$ 400,000	\$ 400,000
	Envelope commissioning (w/ reimbursements)	1	\$ 200,000	\$ 200,000
			\$ -	\$ -
			\$ -	\$ -
<b>TOTAL COMMISSIONING COSTS</b>			<b>\$ 600,000</b>	
<b>Other Costs:</b>				
Energy Study	\$10K if withing RMP area, \$25K otherwise	1	\$ 10,000	\$ 10,000
Integrated Modeling	Energy modeling for LEED and full building analysis	1	\$ 50,000	\$ 50,000
	Cost of advertising and VBS selections	1	\$ 15,000	\$ 15,000
	CMGC auditing	1	\$ 70,000	\$ 70,000
	Schedule reviews	1	\$ 55,000	\$ 55,000
	Value engineering	1	\$ 45,000	\$ 45,000
			\$ -	\$ -
<b>TOTAL OTHER COSTS</b>			<b>\$ 245,000</b>	
<b>Previous Funding:</b>				
(Only show state appropriated funding & include costs covered by that funding in appropriate category.)				
			\$ -	\$ -
			\$ -	\$ -
<b>TOTAL PREVIOUS FUNDING</b>			<b>\$ -</b>	
<b>Other Funding Sources:</b>				
(List and describe each source)				
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
<b>TOTAL OTHER FUNDING SOURCES</b>			<b>\$ -</b>	



EXISTING SCIENCE LAB RETROFIT - COST OPINION SUMMARY

**EXISTING SCIENCE LAB BUILDING**

**WEBER STATE UNIVERSITY**

Upgrade Existing Building for General Teaching Space

**COST OPINION by: MHTN - COST CONTROL**

**COST OPINION: PRE-CONSTRUCTION - DETAILED** 109,000

BUILDING TOTAL

		Cost Per SF	
<b>Systems Upgrade - Entire Building</b>	109,000	\$ 103.95	\$ 11,330,011
<b>Tenant Improvements All 6 Levels</b>	109,000	\$ 68.18	<u>\$ 7,431,851</u>
<b>Building Construction Total</b>		\$ 172.13	<u>\$ 18,761,862</u>

Deductive alternates to total retrofit:

<b>1. Do not replace exterior skin</b>			<u>\$ (1,395,324)</u>
	deduct		<u>\$ (1,674,389)</u>
<b>2. Do not replace exterior glass</b>			<u>\$ (768,852)</u>
	deduct		<u>\$ (922,622)</u>
<b>3. Provide only one elevator</b>			<u>\$ (150,000)</u>
	deduct		<u>\$ (180,000)</u>

EXISTING SCIENCE LAB RETROFIT - COST BREAKDOWN



**Upgrade existing building systems for use as general teaching space**

site upgrades paving and planting	54,500 sf	\$	4.00	\$	<b>218,000</b>
site utilities upgrade	1 sum	\$	200,000.00	\$	<b>200,000</b>
demolition of all interior finishes and other as needed	109,000 sf	\$	5.00	\$	<b>545,000</b>
Seismic					
tie roof diaphragm to structure. Includes remove and replace existing roof	18,167 sf	\$	28.00	\$	508,667
increase floor and roof loads	109,000 sf	\$	3.00	\$	327,000
tie floor diaphragms to structure	72,667 sf	\$	8.00	\$	581,333
add shear walls where needed with footings to resist overturning forces	4,900 sf	\$	85.00	\$	416,500
exterior cladding attach existing to meet codes	39,866 sf	\$	15.00	\$	597,996
increase column capacity	1,908 lf	\$	45.00	\$	85,838
tie footings together	18,167 sf	\$	4.00	\$	72,667
structural / seismic sub-total				\$	<b>2,590,000</b>
New exterior cladding - structural upgrade deducted	39,866 sf	\$	35.00	\$	1,395,324
New windows to meet code	17,086 sf	\$	45.00	\$	768,852
				\$	<b>2,164,176</b>
remove existing elevators and replace traction	2 ea	\$	150,000.00	\$	<b>300,000</b>



EXISTING SCIENCE LAB RETROFIT - COST BREAKDOWN

**Upgrade existing building systems for use as general teaching space**

plumbing all new piping to replace galvanized main lines	109,000 sf	\$	2.00	\$	218,000
mechanical - equipment remove existing and upgrade	109,000 sf	\$	8.00	\$	872,000
new main duct -	109,000 sf	\$	9.00	\$	981,000
new duct diffusers and equipment- not show here, this will be affected by occupancy and room layout					
new fire sprinkler system - main lines only	109,000 sf	\$	1.50	\$	163,500
				<b>\$</b>	<b>2,234,500</b>

electrical					
new feed and main panels					
upgrade 50% of secondary panels and equipment	109,000 sf	\$	3.00	\$	327,000
new generator	1 sum	\$	100,000	\$	100,000
all new special systems - fire sound data main system	109,000 sf	\$	7.00	\$	763,000
				<b>\$</b>	<b>1,190,000</b>

SUB TOTAL **\$ 9,441,676**

<b>UNDEFINED BUILDING ELEMENTS</b>	10.00%	\$	944,168
<b>GENERAL CONDITIONS</b>	5.00%	\$	472,084
<b>BONDING</b>	1.00%	\$	94,417
<b>PROFIT AND OVERHEAD</b>	4.00%	\$	377,667
<b>CONSTRUCTION SUB TOTAL</b>		<b>\$</b>	<b>11,330,011</b>

cost per square foot \$ 103.95

EXISTING SCIENCE LAB RETROFIT - COST BREAKDOWN



**Finish space as needed 1 level at a time**

	18,167 sf				
prepare concrete floors for finish	18,167 sf	\$	0.25	\$	4,542
case work allow for normal teaching space rough & finish	18,167 sf	\$	4.00	\$	72,667
interior doors	26 ea	\$	900.00	\$	23,357
interior windows	225 sf	\$	28.00	\$	6,300
new interior walls gyp two sides	14,533 sf	\$	6.00	\$	87,200
finish at exterior walls gyp	8,130 sf	\$	2.00	\$	16,260
wall finish mix paint and special	37,197 sf	\$	1.25	\$	46,496
floor finish mix carpet, vct and special	18,167 sf	\$	4.00	\$	72,667
ceiling finish mix lay in, gyp, special	18,167 sf	\$	5.00	\$	90,833
specialties allow	18,167 sf	\$	1.00	\$	18,167
fire sprinkler finish system	18,167 sf	\$	1.25	\$	22,708
plumbing and roof drain upgrade	18,167 sf	\$	2.00	\$	36,333
hvac finish system	18,167 sf	\$	12.00	\$	218,000





## 6 Appendix

## 6: APPENDIX

- A College of Science Square Footage by Department
- B College of Science Existing Space Summary
- C Science Lab Building Floor Plans
- D Science Lab Building Space List
- E Science Lab Building Structural As-Builts
- F Lind Lecture Hall Floor Plans
- G Lind Lecture Hall Space List
- H Building 3 Floor Plans
- I Building 3 Space List
- J Building 4 Floor Plans
- K Building 4 Space List
- L Weber State University Building List
- M Lind Lecture Hall Room Priority Assignments
- N Lind Lecture Hall Capacity and Usage
- O College of Science Student Credit Hours
- P WSU Student Enrollment by Major
- Q Summary- College of Science Enrollment by Major & Student Credit Hours
- R Project Meeting Reports

<u>INST #</u>	<u>YR #</u>	<u>BLDG#</u>	<u>BUILDING</u>	<u>RM #</u>	<u>RM DESCRIPTION</u>	<u>POLY SQFT</u>	<u>SEATS</u>	<u>DEPT</u>	<u>ORG</u>	<u>ORG NAME</u>
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**Botany:**

3680	2009	02240	ENGTEC	133F	RESEARCH-BOTANY	425.27		2510	25100	BOTANY
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**Building Total: 425.27**

3680	2009	06682	LINDLH	017	HALL	64.51		2510	25100	BOTANY
3680	2009	06682	LINDLH	017A	PREP	449.18		2510	25100	BOTANY
3680	2009	06682	LINDLH	129	LECTURE HALL	1,180.29	88	2510	25100	BOTANY
3680	2009	06682	LINDLH	228	CLASSROOM	536.36	36	2510	25100	BOTANY

**Building Total: 2,230.34**

3680	2009	00752	SCILAB	402M	OFFICE	144.84		2510	25100	BOTANY
3680	2009	00752	SCILAB	402MA	WORKROOM	85.94		2510	25100	BOTANY
3680	2009	00752	SCILAB	402MB	STORAGE	19.37		2510	25100	BOTANY
3680	2009	00752	SCILAB	402MC	OFFICE	155.21		2510	25100	BOTANY
3680	2009	00752	SCILAB	403M	OFFICE	108.89		2510	25100	BOTANY
3680	2009	00752	SCILAB	403MA	OFFICE	107.08		2510	25100	BOTANY
3680	2009	00752	SCILAB	404M	OFFICE	107.37		2510	25100	BOTANY
3680	2009	00752	SCILAB	406M	OFFICE	107.96		2510	25100	BOTANY
3680	2009	00752	SCILAB	407M	OFFICE	107.67		2510	25100	BOTANY
3680	2009	00752	SCILAB	409M	OFFICE	100.57		2510	25100	BOTANY
3680	2009	00752	SCILAB	410	STORAGE	16.78		2510	25100	BOTANY
3680	2009	00752	SCILAB	419	LAB	135.78		2510	25100	BOTANY
3680	2009	00752	SCILAB	419A	LAB-BOTANY	205.99	8	2510	25100	BOTANY
3680	2009	00752	SCILAB	421	CLASSLAB	950.83	32	2510	25100	BOTANY
3680	2009	00752	SCILAB	422	LAB	948.61	24	2510	25100	BOTANY
3680	2009	00752	SCILAB	423	PREP	445.52		2510	25100	BOTANY
3680	2009	00752	SCILAB	423A	STORAGE-AV	27.50		2510	25100	BOTANY
3680	2009	00752	SCILAB	423B	OFFICE	104.09		2510	25100	BOTANY
3680	2009	00752	SCILAB	423C	STUDY	346.10		2510	25100	BOTANY
3680	2009	00752	SCILAB	424	CLASSLAB	947.00	30	2510	25100	BOTANY
3680	2009	00752	SCILAB	425	LAB	910.33	30	2510	25100	BOTANY
3680	2009	00752	SCILAB	609	OFFICE	106.84		2510	25100	BOTANY
3680	2009	00752	SCILAB	622	HEAD HOUSE	442.74		2510	25100	BOTANY
3680	2009	00752	SCILAB	622A	STORAGE	128.50		2510	25100	BOTANY
3680	2009	00752	SCILAB	623	GREENHOUSE	552.12		2510	25100	BOTANY
3680	2009	00752	SCILAB	624	GREENHOUSE	557.05		2510	25100	BOTANY

**Building Total: 7,870.68**

**Department Total: 10,526.29**

<u>INST #</u>	<u>YR #</u>	<u>BLDG#</u>	<u>BUILDING</u>	<u>RM #</u>	<u>RM DESCRIPTION</u>	<u>POLY SQFT</u>	<u>SEATS</u>	<u>DEPT</u>	<u>ORG</u>	<u>ORG NAME</u>
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**Chemistry:**

3680	2009	09639	DAVIS2	330	LAB-WET	1,103.60	24	2520	25200	CHEMISTRY
3680	2009	09639	DAVIS2	331A	PREP-CHEMISTRY	358.10		2520	25200	CHEMISTRY

**Building Total: 1,461.70**

3680	2009	02240	ENGTEC	133C	RESEARCH-CHEMICAL	284.17		2520	25200	CHEMISTRY
3680	2009	02240	ENGTEC	137	OFFICE	113.11		2520	25200	CHEMISTRY

**Building Total: 397.28**

3680	2009	06682	LINDLH	011	RESEARCH-CHEMICAL	554.70		2520	25200	CHEMISTRY
3680	2009	06682	LINDLH	011A	CLOSET	9.86		2520	25200	CHEMISTRY
3680	2009	06682	LINDLH	011B	STORAGE-LAB	233.14		2520	25200	CHEMISTRY
3680	2009	06682	LINDLH	122	LECTURE HALL	935.20	64	2520	25200	CHEMISTRY
3680	2009	06682	LINDLH	123	LECTURE HALL	1,418.13	105	2520	25200	CHEMISTRY
3680	2009	06682	LINDLH	222	CLASSROOM	538.12	36	2520	25200	CHEMISTRY

**Building Total: 3,689.15**

3680	2009	00752	SCILAB	104	STORAGE-CHEMISTRY	255.59		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	502M	OFFICE	145.14		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	502MA	WORKROOM	85.38		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	502MB	STORAGE	19.00		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	502MC	OFFICE	153.79		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	503M	OFFICE	219.88		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	504M	OFFICE	106.73		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	505M	OFFICE	107.18		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	506M	OFFICE	106.35		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	507M	OFFICE	106.86		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	508M	OFFICE	106.92		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	509M	OFFICE	100.27		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	511	STORAGE	60.92		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	512	INSTRUMENTATION LAB	576.58		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	513	RESEARCH-LAB	360.53		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	514	OPEN LAB	216.15		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	515	CLASSLAB	692.80	16	2520	25200	CHEMISTRY

## A. COLLEGE OF SCIENCE SQUARE FOOTAGE BY DEPARTMENT

<u>INST #</u>	<u>YR #</u>	<u>BLDG#</u>	<u>BUILDING</u>	<u>RM #</u>	<u>RM DESCRIPTION</u>	<u>POLY SQFT</u>	<u>SEATS</u>	<u>DEPT</u>	<u>ORG</u>	<u>ORG NAME</u>
3680	2009	00752	SCILAB	515A	PREP	122.35		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	515B	STORAGE	7.00		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	516	BALANCE ROOM	375.46		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	517	RESEARCH-CHEMICAL	207.89		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	518	RESEARCH-CHEMICAL	208.62		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	519	OFFICE	95.62		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	520	STORAGE	415.04		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	521	ISSUE	468.78		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	522	RESEARCH-CHEMICAL	117.26		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	523	RESEARCH-CHEMICAL	116.01		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	524	RESEARCH-CHEMICAL	323.59		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	525	LAB	1,241.97	24	2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	525A	OFFICE	122.83		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	526	LAB	939.57	24	2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	527	LAB	913.92	24	2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	528	BALANCE ROOM	167.94		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	529	PREP	593.65		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	530	BALANCE ROOM	170.32		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	531	LAB	950.45	24	2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	532	LAB	943.65	24	2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	540	CLASSROOM	556.48	36	2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	607	OFFICE	106.85		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	608	OFFICE	106.83		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	621	LAB-ORGANIC	1,162.77	24	2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	626	LAB-ORGANIC	1,159.80	24	2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	627	PREP	147.65		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	627A	OFFICE	123.27		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	627B	STORAGE	193.36		2520	25200	CHEMISTRY
3680	2009	00752	SCILAB	627C	INSTRUMENTS	53.79		2520	25200	CHEMISTRY

<b>Building Total:</b>	<b>15,532.79</b>
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<b>Department Total:</b>	<b>21,080.92</b>
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<u>INST #</u>	<u>YR #</u>	<u>BLDG#</u>	<u>BUILDING</u>	<u>RM #</u>	<u>RM DESCRIPTION</u>	<u>POLY SQFT</u>	<u>SEATS</u>	<u>DEPT</u>	<u>ORG</u>	<u>ORG NAME</u>
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**Geosciences:**

3680	2009	06682	LINDLH	012	RESEARCH-SPECTOGR	290.70		2530	25300	GEOSCIENCES
3680	2009	06682	LINDLH	013	PREP	198.90		2530	25300	GEOSCIENCES
3680	2009	06682	LINDLH	124	LECTURE HALL	1,175.51	88	2530	25300	GEOSCIENCES
3680	2009	06682	LINDLH	128	LECTURE HALL	935.18	64	2530	25300	GEOSCIENCES

**Building Total: 2,600.29**

3680	2009	00752	SCILAB	105	STORAGE	128.45		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	117	OFFICE	166.77		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	121	RESEARCH-GEOLOGY	167.50		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	202M	OFFICE	144.66		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	203M	OFFICE	106.40		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	203MA	OFFICE	107.72		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	204M	OFFICE	106.67		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	206M	OFFICE	106.94		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	207M	OFFICE	107.16		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	308M	OFFICE	108.30		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	323	PREP	256.83		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	323A	RESEARCH-LAB	123.02		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	323C	HALL	110.60		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	324	RESEARCH-LAB	162.12		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	325	RESEARCH-PALEONTO	161.87		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	326	PROJECT ROOM	182.81		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	328	LAB-GEOGRAPHY	946.18	25	2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	330	PREP	476.18		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	331	PREP	305.19		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	332	CLASSLAB	649.31	16	2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	333	LAB	511.52	6	2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	346	RESEARCH-LAB	207.27		2530	25300	GEOSCIENCES
3680	2009	00752	SCILAB	346A	RESEARCH-LAB	343.76		2530	25300	GEOSCIENCES

**Building Total: 5,687.23**

**Department Total: 8,287.52**

## A. COLLEGE OF SCIENCE SQUARE FOOTAGE BY DEPARTMENT

<u>INST #</u>	<u>YR #</u>	<u>BLDG#</u>	<u>BUILDING</u>	<u>RM #</u>	<u>RM DESCRIPTION</u>	<u>POLY SQFT</u>	<u>SEATS</u>	<u>DEPT</u>	<u>ORG</u>	<u>ORG NAME</u>
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**Mathematics:**

3680	2009	00750	BLDG 3	313	CLASSROOM	938.72	37	2540	25400	MATHEMATICS
3680	2009	00750	BLDG 3	326E	MAIL	83.39		2540	25400	MATHEMATICS
3680	2009	00750	BLDG 3	327	HALL	89.08		2540	25400	MATHEMATICS
3680	2009	00750	BLDG 3	327A	OFFICE	123.99		2540	25400	MATHEMATICS
3680	2009	00750	BLDG 3	327B	OFFICE	125.95		2540	25400	MATHEMATICS
3680	2009	00750	BLDG 3	327C	HALL	154.57		2540	25400	MATHEMATICS
3680	2009	00750	BLDG 3	327D	OFFICE	109.41		2540	25400	MATHEMATICS
3680	2009	00750	BLDG 3	327E	OFFICE	106.93		2540	25400	MATHEMATICS
3680	2009	00750	BLDG 3	328	CLASSROOM	713.04	32	2540	25400	MATHEMATICS
3680	2009	00750	BLDG 3	329	WORKROOM	77.21		2540	25400	MATHEMATICS
3680	2009	00750	BLDG 3	330	OFFICE	104.80		2540	25400	MATHEMATICS

<b>Building Total:</b>	<b>2,627.09</b>
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3680	2009	02235	BLDG 4	501A	OFFICE	70.02		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	501B	STORAGE	82.88		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	501C	STORAGE	6.66		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	502A	OFFICE	102.16		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	502B	OFFICE	69.46		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	502C	OFFICE	70.45		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	502D	OFFICE	71.90		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	503A	OFFICE	91.92		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	503B	OFFICE	107.65		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	503C	OFFICE	97.81		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	503D	DUMB WAITER	101.79		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	504A	OFFICE	83.69		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	504B	OFFICE	83.95		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	505	OPEN LAB	885.41	16	2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	505A	OFFICE	192.58		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	505C	STORAGE	144.91		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	506	OFFICE	108.08		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	506A	OFFICE	125.49		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	507	STUDY	458.18		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	507A	STORAGE	30.80		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	508	CLASSROOM	454.68	32	2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	509	CLASSROOM	454.67	32	2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	510	CLASSROOM	548.79	40	2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	511	CLASSROOM	549.25	40	2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	512	WORKROOM	67.86		2540	25400	MATHEMATICS

<b>INST #</b>	<b>YR #</b>	<b>BLDG#</b>	<b>BUILDING</b>	<b>RM #</b>	<b>RM DESCRIPTION</b>	<b>POLY SQFT</b>	<b>SEATS</b>	<b>DEPT</b>	<b>ORG</b>	<b>ORG NAME</b>
3680	2009	02235	BLDG 4	513	HALL	177.64		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	513A	OFFICE	89.73		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	513B	OFFICE	90.77		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	513C	OFFICE	87.22		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	515	CLASSROOM	592.91	36	2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	516	CLASSROOM	587.98	40	2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	517	CLASSROOM	588.30	40	2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	518	CLASSROOM	552.88	24	2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	518A	BREAK	368.50		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	518B	OFFICE	160.42		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	518C	OFFICE	92.06		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	518D	WORKROOM	275.41		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	520	CLOSET	8.23		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	521	OFFICE	101.26		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	522	OFFICE	100.40		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	523	OFFICE	100.34		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	524	HALL	213.62		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	525	OFFICE	94.53		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	526	OFFICE	80.02		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	527	OFFICE	78.92		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	528	OFFICE	79.94		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	529	OFFICE	80.31		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	530	OFFICE	79.80		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	531	OFFICE	79.84		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	532	OFFICE	79.16		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	539	CLASSLAB	1,268.42	48	2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	539A	STORAGE	20.31		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	539B	STORAGE	16.80		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	541A	STORAGE	14.64		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	542	STORAGE	37.92		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	543	OFFICE	87.53		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	544	OFFICE	79.91		2540	25400	MATHEMATICS
3680	2009	02235	BLDG 4	551	HALL	242.78		2540	25400	MATHEMATICS

**Building Total: 11,669.54**

3680	2009	02240	ENGTEC	127	CLASSROOM	1,039.74	40	2540	25403	MATHEMATICS
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**Building Total: 1,039.74**

**Department Total: 15,336.37**

## A. COLLEGE OF SCIENCE SQUARE FOOTAGE BY DEPARTMENT

<u>INST #</u>	<u>YR #</u>	<u>BLDG#</u>	<u>BUILDING</u>	<u>RM #</u>	<u>RM DESCRIPTION</u>	<u>POLY SQFT</u>	<u>SEATS</u>	<u>DEPT</u>	<u>ORG</u>	<u>ORG NAME</u>
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**Microbiology:**

3680	2009	02240	ENGTEC	133E	RESEARCH-MICROBIOL	410.23		2550	25500	MICROBIOLOGY
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<b>Building Total:</b>	<b>410.23</b>
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3680	2009	06682	LINDLH	005	STUDY	365.98		2550	25500	MICROBIOLOGY
3680	2009	06682	LINDLH	127	LECTURE HALL	1,655.83	120	2550	25500	MICROBIOLOGY
3680	2009	06682	LINDLH	229	CLASSROOM	534.98	36	2550	25500	MICROBIOLOGY

<b>Building Total:</b>	<b>2,556.79</b>
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3680	2009	00752	SCILAB	124	RESEARCH-MICROBIOL	168.51		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	125	RESEARCH-MICROBIOL	699.91		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	126	RESEARCH-MICROBIOL	92.13		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	302M	OFFICE	145.26		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	302MA	WORKROOM	88.13		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	302MB	STORAGE	19.14		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	302MC	OFFICE	152.38		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	303M	OFFICE	108.31		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	303MA	OFFICE	108.45		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	304M	OFFICE	108.19		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	305M	OFFICE	108.04		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	306M	OFFICE	108.31		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	307M	OFFICE	108.35		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	334	LAB	761.85	24	2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	335	LAB	786.59	24	2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	336	HALL	139.45		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	337	PROJECT ROOM	132.77		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	338	PREP	242.48		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	339	SUPPLIES	328.06		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	339A	PREP	132.87		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	340	LAVATORY	110.01		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	341	EQUIPMENT	39.23		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	342	OFFICE	77.07		2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	344	LAB	946.87	24	2550	25500	MICROBIOLOGY
3680	2009	00752	SCILAB	345	LAB	945.27	24	2550	25500	MICROBIOLOGY

<b>Building Total:</b>	<b>6,657.63</b>
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<b>Department Total:</b>	<b>9,624.65</b>
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<u>INST #</u>	<u>YR #</u>	<u>BLDG#</u>	<u>BUILDING</u>	<u>RM #</u>	<u>RM DESCRIPTION</u>	<u>POLY SQFT</u>	<u>SEATS</u>	<u>DEPT</u>	<u>ORG</u>	<u>ORG NAME</u>
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**Physics:**

3680	2009	06682	LINDLH	010	LAB	1,207.52		2560	25600	PHYSICS
3680	2009	06682	LINDLH	010A	STORAGE	9.92		2560	25600	PHYSICS
3680	2009	06682	LINDLH	010B	OFFICE	120.27		2560	25600	PHYSICS
3680	2009	06682	LINDLH	121	LECTURE HALL	1,658.56	105	2560	25600	PHYSICS
3680	2009	06682	LINDLH	209	OFFICE	115.39		2560	25600	PHYSICS
3680	2009	06682	LINDLH	221	CLASSROOM	536.08	36	2560	25600	PHYSICS

**Building Total: 3,647.74**

3680	2009	09503	OBSERV	100	STORAGE-EQUIPMENT	246.71		2560	25600	PHYSICS
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**Building Total: 246.71**

3680	2009	00752	SCILAB	106	RESEARCH	228.35		2560	25600	PHYSICS
3680	2009	00752	SCILAB	107	RESEARCH	205.37		2560	25600	PHYSICS
3680	2009	00752	SCILAB	115	STORAGE-RADIOACTIV	141.45		2560	25600	PHYSICS
3680	2009	00752	SCILAB	118	RESEARCH-PHYSICS	166.34		2560	25600	PHYSICS
3680	2009	00752	SCILAB	120	RESEARCH	161.68		2560	25600	PHYSICS
3680	2009	00752	SCILAB	122	RESEARCH-PHYSICS	182.62		2560	25600	PHYSICS
3680	2009	00752	SCILAB	127	PHYSICS WORKSHOP	118.87		2560	25600	PHYSICS
3680	2009	00752	SCILAB	201A	STORAGE	16.47		2560	25600	PHYSICS
3680	2009	00752	SCILAB	202	OFFICE	145.30		2560	25600	PHYSICS
3680	2009	00752	SCILAB	202A	WORKROOM	87.21		2560	25600	PHYSICS
3680	2009	00752	SCILAB	202B	STORAGE	19.14		2560	25600	PHYSICS
3680	2009	00752	SCILAB	202C	OFFICE	153.55		2560	25600	PHYSICS
3680	2009	00752	SCILAB	203	OFFICE	107.13		2560	25600	PHYSICS
3680	2009	00752	SCILAB	204	OFFICE	106.41		2560	25600	PHYSICS
3680	2009	00752	SCILAB	204A	OFFICE	107.27		2560	25600	PHYSICS
3680	2009	00752	SCILAB	205	OFFICE	106.80		2560	25600	PHYSICS
3680	2009	00752	SCILAB	206	OFFICE	107.00		2560	25600	PHYSICS
3680	2009	00752	SCILAB	207	OFFICE	107.10		2560	25600	PHYSICS
3680	2009	00752	SCILAB	208	OFFICE	107.00		2560	25600	PHYSICS
3680	2009	00752	SCILAB	209	OFFICE	101.15		2560	25600	PHYSICS
3680	2009	00752	SCILAB	210	OFFICE	238.56		2560	25600	PHYSICS
3680	2009	00752	SCILAB	211	OFFICE	95.00		2560	25600	PHYSICS

## A. COLLEGE OF SCIENCE SQUARE FOOTAGE BY DEPARTMENT

<u>INST #</u>	<u>YR #</u>	<u>BLDG#</u>	<u>BUILDING</u>	<u>RM #</u>	<u>RM DESCRIPTION</u>	<u>POLY SQFT</u>	<u>SEATS</u>	<u>DEPT</u>	<u>ORG</u>	<u>ORG NAME</u>
3680	2009	00752	SCILAB	214	OFFICE	87.91		2560	25600	PHYSICS
3680	2009	00752	SCILAB	220	LAB-PHYSICS	647.09	32	2560	25600	PHYSICS
3680	2009	00752	SCILAB	221	LAB	889.99	16	2560	25600	PHYSICS
3680	2009	00752	SCILAB	222	LAB	892.53	16	2560	25600	PHYSICS
3680	2009	00752	SCILAB	223	LAB-NUCLEAR PHYSICS	195.97	4	2560	25600	PHYSICS
3680	2009	00752	SCILAB	223A	STORAGE	548.49		2560	25600	PHYSICS
3680	2009	00752	SCILAB	224	PREP	741.83		2560	25600	PHYSICS
3680	2009	00752	SCILAB	225	LAB	729.78	12	2560	25600	PHYSICS
3680	2009	00752	SCILAB	226	LAB	693.11	16	2560	25600	PHYSICS
3680	2009	00752	SCILAB	229	OFFICE	204.53		2560	25600	PHYSICS
3680	2009	00752	SCILAB	229A	HALL	67.99		2560	25600	PHYSICS
3680	2009	00752	SCILAB	231	OPEN LAB	370.41		2560	25600	PHYSICS
3680	2009	00752	SCILAB	231A	PROJECT ROOM	91.02		2560	25600	PHYSICS
3680	2009	00752	SCILAB	232	LAB-PHYSICS	463.75	12	2560	25600	PHYSICS
3680	2009	00752	SCILAB	232B	LAB-OPTICS	502.78	8	2560	25600	PHYSICS
3680	2009	00752	SCILAB	232C	DARKROOM	45.38		2560	25600	PHYSICS
3680	2009	00752	SCILAB	232D	HALL	11.44		2560	25600	PHYSICS
3680	2009	00752	SCILAB	233	LAB-PROJECT	91.24	2	2560	25600	PHYSICS
3680	2009	00752	SCILAB	237	FUME HOOD	124.59		2560	25600	PHYSICS
3680	2009	00752	SCILAB	240	CLASSROOM	557.73	36	2560	25600	PHYSICS

<b>Building Total:</b>	<b>10,767.33</b>
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<b>Department Total:</b>	<b>14,661.78</b>
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<u>INST #</u>	<u>YR #</u>	<u>BLDG#</u>	<u>BUILDING</u>	<u>RM #</u>	<u>RM DESCRIPTION</u>	<u>POLY SQFT</u>	<u>SEATS</u>	<u>DEPT</u>	<u>ORG</u>	<u>ORG NAME</u>
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**Zoology:**

3680	2009	02240	ENGTEC	133	HALL	749.27		2570	25700	ZOOLOGY
3680	2009	02240	ENGTEC	133A	RESEARCH-ZOOLOGY	376.86	12	2570	25700	ZOOLOGY
3680	2009	02240	ENGTEC	133B	RESEARCH-ZOOLOGY	410.42	16	2570	25700	ZOOLOGY
3680	2009	02240	ENGTEC	135	OFFICE	113.58		2570	25700	ZOOLOGY
3680	2009	02240	ENGTEC	139	CLASSLAB	1,034.55	40	2570	25700	ZOOLOGY
3680	2009	02240	ENGTEC	139A	PREP	255.66		2570	25700	ZOOLOGY

**Building Total: 2,940.34**

3680	2009	06682	LINDLH	003	LAB-ANATOMY	778.29	20	2570	25700	ZOOLOGY
3680	2009	06682	LINDLH	003A	STORAGE	86.04		2570	25700	ZOOLOGY
3680	2009	06682	LINDLH	006	RESEARCH	849.84		2570	25700	ZOOLOGY
3680	2009	06682	LINDLH	006A	RESEARCH-ECOLOGY	178.42		2570	25700	ZOOLOGY
3680	2009	06682	LINDLH	006B	PROJECT ROOM	157.17		2570	25700	ZOOLOGY
3680	2009	06682	LINDLH	006C	PREP	277.62		2570	25700	ZOOLOGY
3680	2009	06682	LINDLH	130	LECTURE HALL	1,418.78	105	2570	25700	ZOOLOGY
3680	2009	06682	LINDLH	230	CLASSLAB	534.08	36	2570	25700	ZOOLOGY

**Building Total: 4,280.24**

3680	2009	00752	SCILAB	116	WORKROOM	169.16		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	116A	RESEARCH-DNA	965.09		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	116B	DARKROOM	85.51		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	116C	AMPLIFICATION ROOM	232.34		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	123	RESEARCH-ZOOLOGY	176.62		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	128	RESEARCH	166.46		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	129	RESEARCH-ZOOLOGY	164.10		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	402	OFFICE	144.50		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	402A	WORKROOM	85.46		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	402B	STORAGE	18.78		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	402C	OFFICE	155.21		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	403	OFFICE	110.34		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	403A	OFFICE	104.90		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	404	OFFICE	107.49		2570	25700	ZOOLOGY

<u>INST #</u>	<u>YR #</u>	<u>BLDG#</u>	<u>BUILDING</u>	<u>RM #</u>	<u>RM DESCRIPTION</u>	<u>POLY SQFT</u>	<u>SEATS</u>	<u>DEPT</u>	<u>ORG</u>	<u>ORG NAME</u>
3680	2009	00752	SCILAB	405	OFFICE	107.05		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	405M	OFFICE	107.40		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	406	OFFICE	107.37		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	407	OFFICE	107.38		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	408	OFFICE	107.45		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	408M	OFFICE	107.69		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	409	OFFICE	101.30		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	426	LAB	916.38	30	2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	427	LAB	941.55	24	2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	428	PREP	622.58		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	428A	OFFICE	106.31		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	428B	STORAGE	203.47		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	429	LAB	950.17	30	2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	430	LAB	944.66	30	2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	440	STORAGE-SPECIMEN	560.21		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	616	ZOOLOGY CLUB	236.36		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	617	ANIMAL QUARTERS	187.61		2570	25700	ZOOLOGY
3680	2009	00752	SCILAB	618	ANIMAL QUARTERS	162.22		2570	25700	ZOOLOGY

**Building Total: 9,263.12**

**Department Total: 16,483.70**

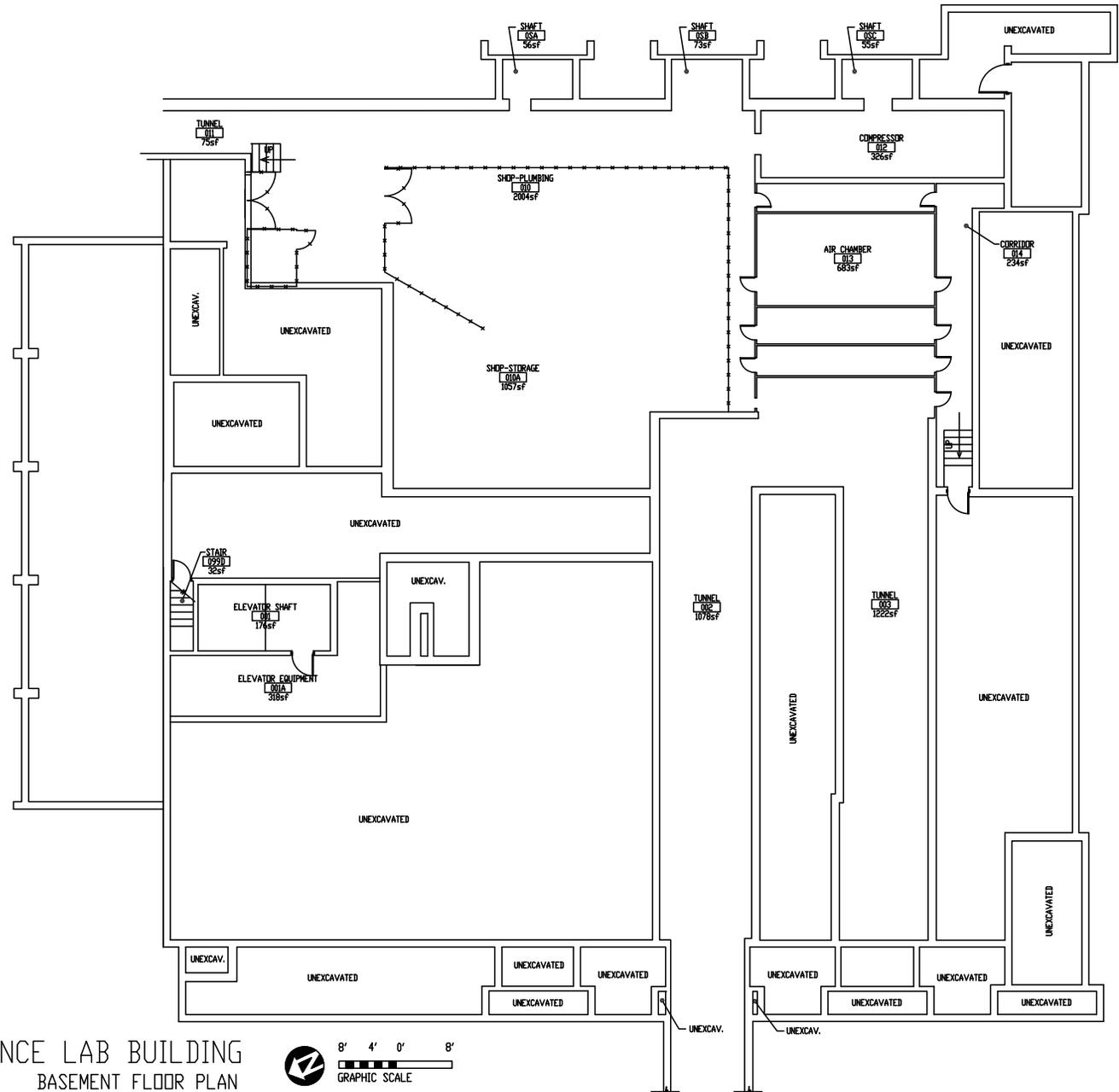
**College Total: 96,001.23**

**WSU COLLEGE OF SCIENCE SUMMARY OF EXISTING SPACE**

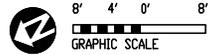
(derived from WSU Square Footage by Dept. space list)

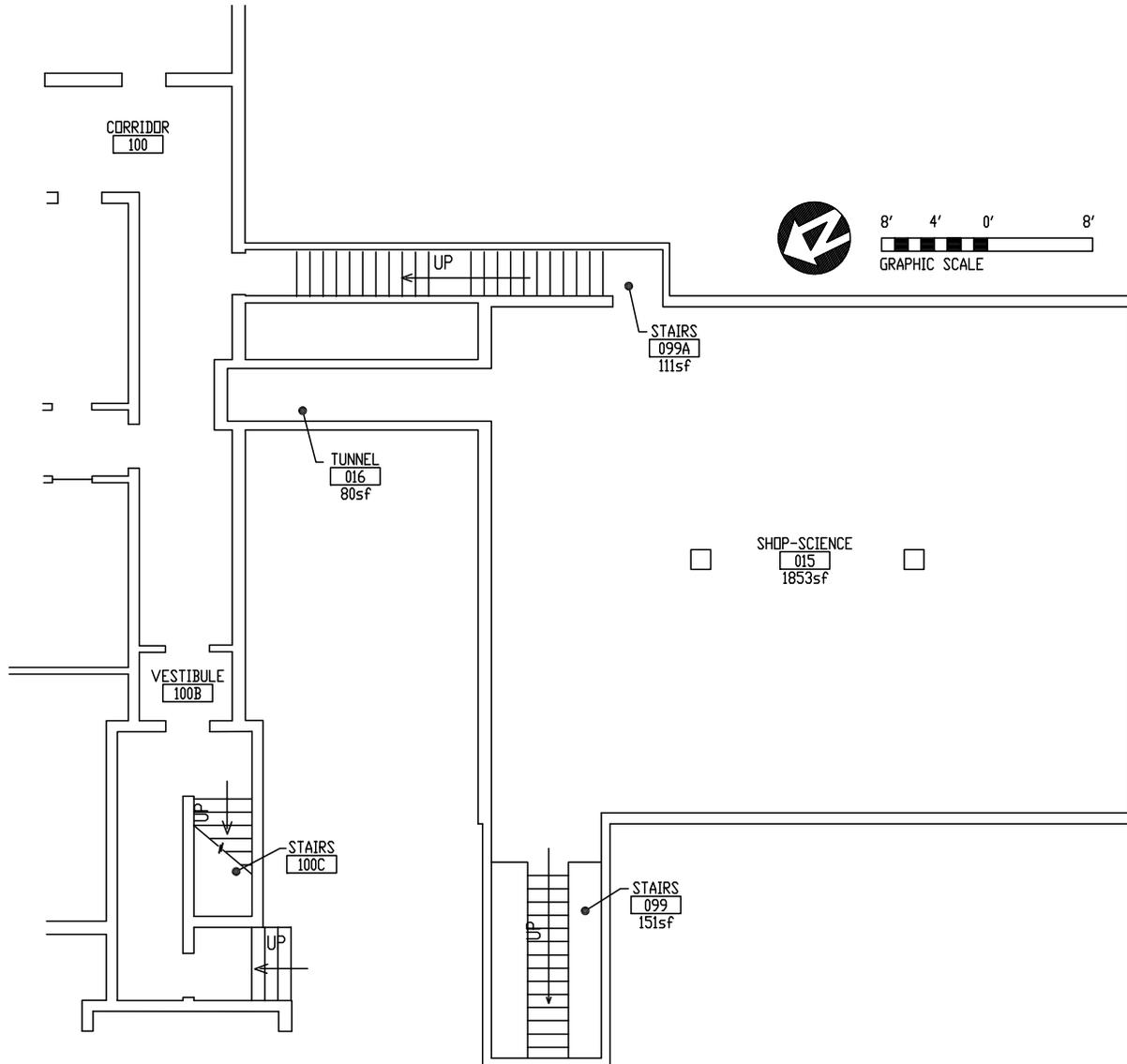
Dept #	Dept	Bldg	Bldg Total Net SF	Dept Total Net SF	Lecture	Classrm	Classlab	Lab	Prep	Instruments	Equipment	Supplies	Issue	Balance Rm	Darkroom	Fume Hood	Amplification	Stor/Closet	Workrm/shop	Project Rm	Research	Office	Greenhouse	Head House	Animal Qtrs	Study	Student Club	Break
25100	Botany	Eng Tec	425																		1							
		Lind LH	2,230		1	1			1													10	2	1		1		
		Sci Lab	7,871				2	4	1									4	1									
				10,526	1	1	2	4	2									4	1		1	10	2	1		1		
25200	Chemistry	Davis	1,462					1	1																			
		Eng Tec	397																			1	1					
		Lind LH	3,689		2	1												2				1						
		Sci Lab	15,533			1	1	9	3	1			1	3			6	1	1		6	14						
				21,081	2	2	1	10	4	1			1	3			8	1	1		8	15						
25300	Geosciences	Lind LH	2,600		2				1													1						
		Sci Lab	5,687				1	2	3									1		1		6	8					
				8,287	2		1	2	4									1		1		7	8					
25400	Mathematics	Bldg 3	2,627			2													1			5						
		Bldg 4	11,670			8	1	1										9	2			31				1		1
		Eng Tec	1,040			1																						
				15,337		11	1	1										9	3			36				1		1
25500	Microbiology	Eng Tec	410																			1						
		Lind LH	2,557		1	1																				1		
		Sci Lab	6,658					4	2		1	1						1	1	1		3	9					
				9,625	1	1		4	2		1	1						1	1	1		4	9			1		
25600	Physics	Lind LH	3,648		1	1		1															2					
		Observ	247								1																	
		Sci Lab	10,767			1		9	1						1	1		4	2	2		5	14					
				14,662	1	2		10	1		1				1	1		5	2	2		5	16					
25700	Zoology	Eng Tec	2,940				1													1		2	1					
		Lind LH	4,280		1		1	1	1									1		1		2						
		Sci Lab	9,263					4	1						1		1	3	2		4	13			2		1	
				16,483	1		2	5	2						1			1	4	3	1	8	14		2		1	
<b>College Total</b>			<b>96,001</b>		<b>8</b>	<b>17</b>	<b>7</b>	<b>36</b>	<b>15</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>32</b>	<b>11</b>	<b>6</b>	<b>33</b>	<b>108</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>





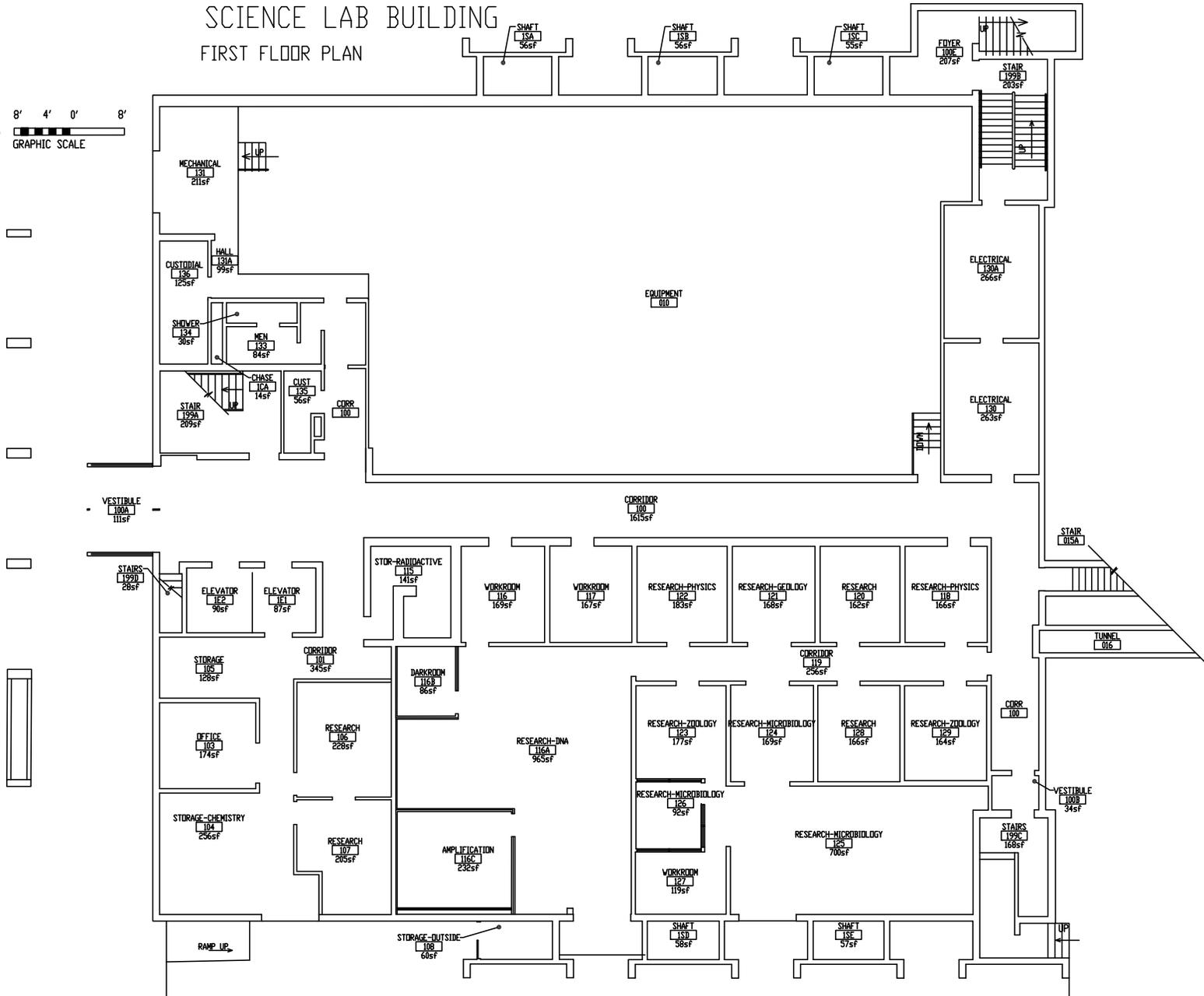
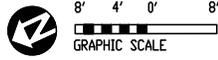
SCIENCE LAB BUILDING  
BASEMENT FLOOR PLAN





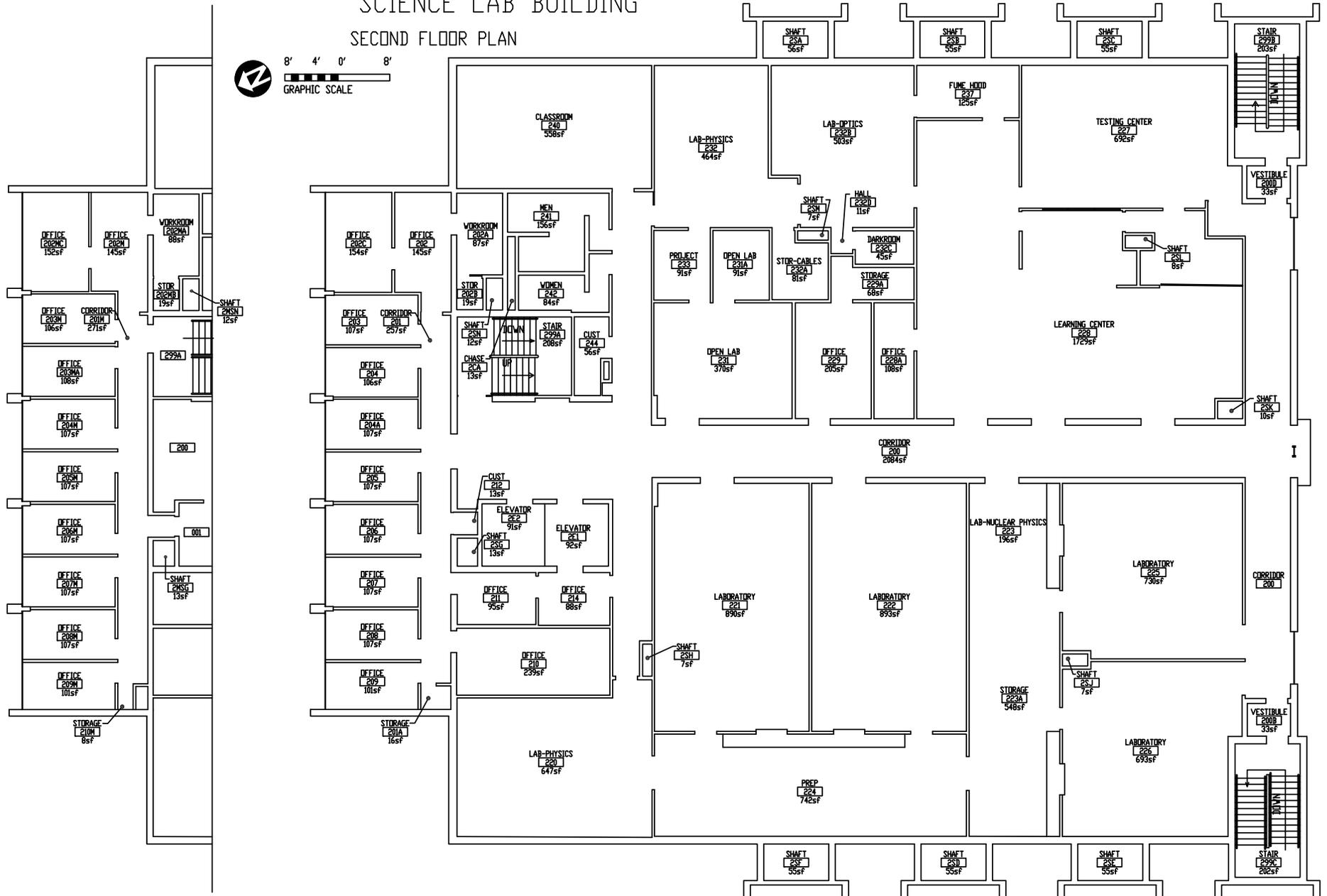
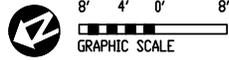
SCIENCE SHOP  
UNDERGROUND ROOM-ADJACENT TO SCIENCE LAB BASEMENT

# SCIENCE LAB BUILDING FIRST FLOOR PLAN



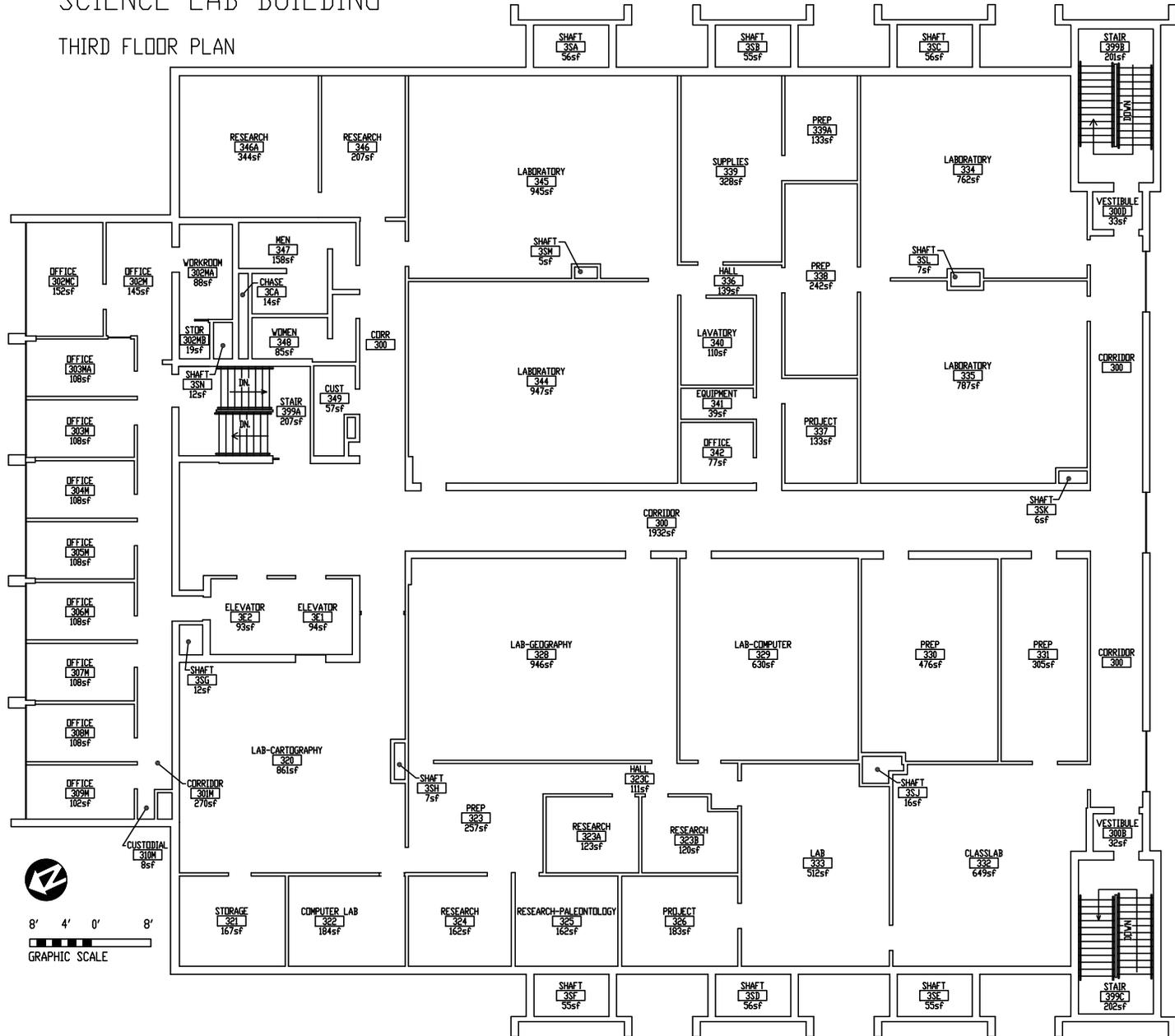
# SCIENCE LAB BUILDING

## SECOND FLOOR PLAN

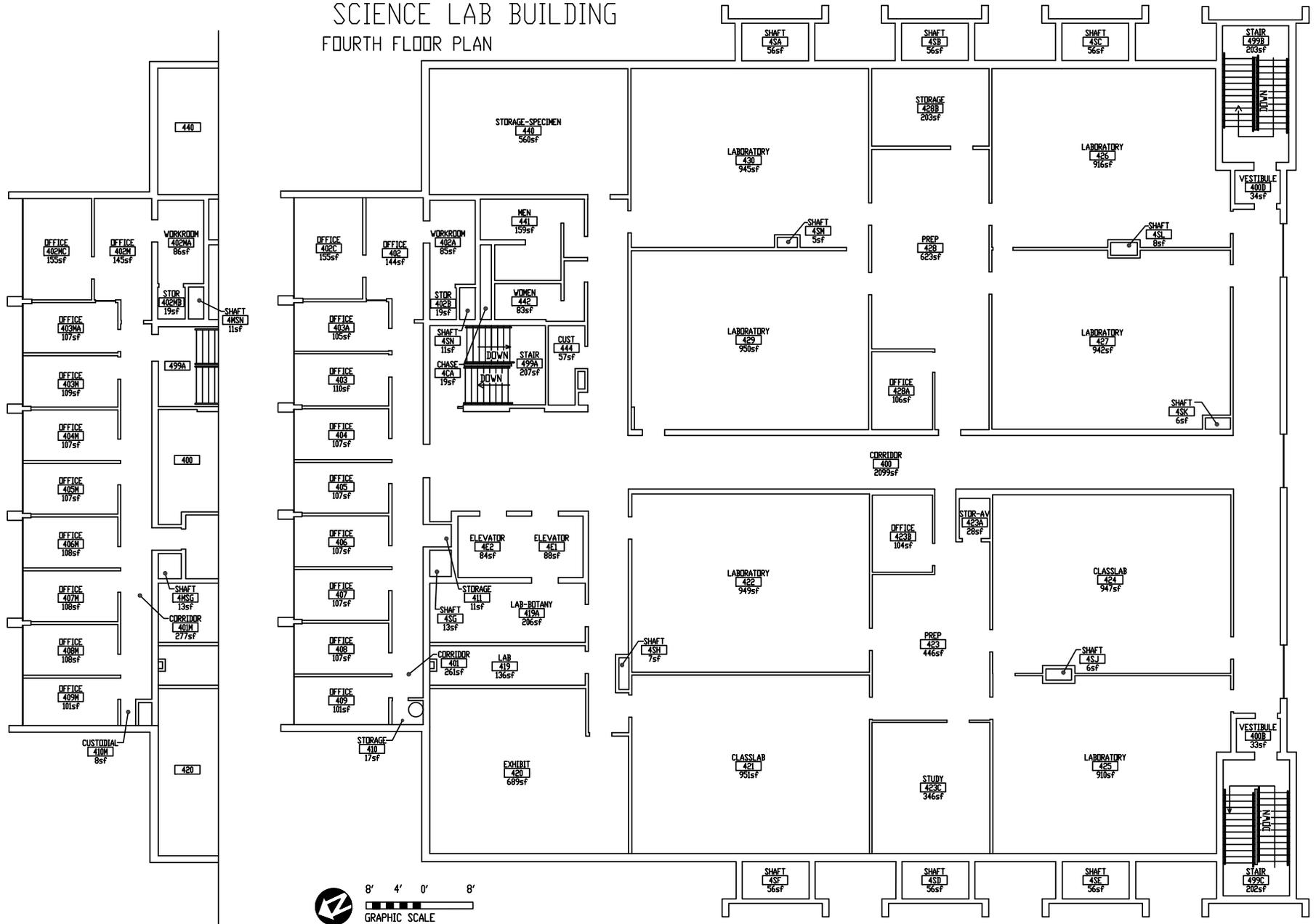


# SCIENCE LAB BUILDING

## THIRD FLOOR PLAN

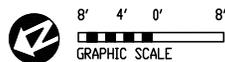
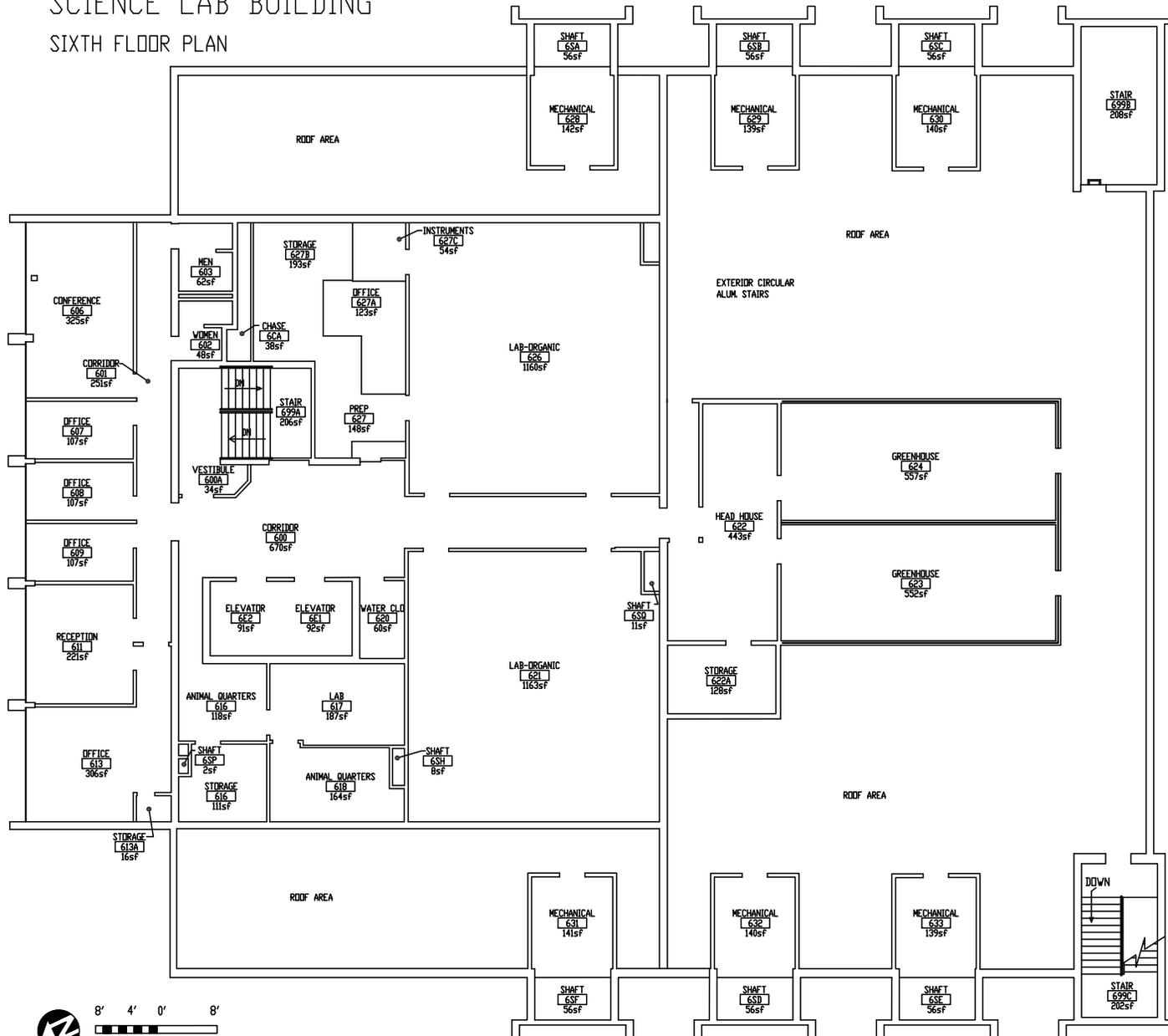


# SCIENCE LAB BUILDING FOURTH FLOOR PLAN





# SCIENCE LAB BUILDING SIXTH FLOOR PLAN



### Science Lab

Basement			
Room	Room Name	Square Feet	Department
001	ELEVATOR SHAFT	175.88	FACILITIES MANAGEMENT ADMIN OFFICE
001A	ELEV EQUIP	317.64	FACILITIES MANAGEMENT ADMIN OFFICE
002	TUNNEL	1,078.54	FACILITIES MANAGEMENT ADMIN OFFICE
003	TUNNEL	1,221.95	FACILITIES MANAGEMENT ADMIN OFFICE
010	SHOP-PLUMBING	2,004.40	FACILITIES MANAGEMENT ADMIN OFFICE
010A	SHOP-STORAGE	1,057.07	FACILITIES MANAGEMENT ADMIN OFFICE
011	TUNNEL	74.90	FACILITIES MANAGEMENT ADMIN OFFICE
012	COMPRESSOR	326.01	FACILITIES MANAGEMENT ADMIN OFFICE
013	AIR CHAMBER	683.41	FACILITIES MANAGEMENT ADMIN OFFICE
014	CORRIDOR	234.16	FACILITIES MANAGEMENT ADMIN OFFICE
099D	STAIR	32.31	FACILITIES MANAGEMENT ADMIN OFFICE
0SA	SHAFT	55.57	FACILITIES MANAGEMENT ADMIN OFFICE
0SB	SHAFT	72.78	FACILITIES MANAGEMENT ADMIN OFFICE
0SC	SHAFT	55.50	FACILITIES MANAGEMENT ADMIN OFFICE

**Basement Total: 7,390.12**

First Floor			
Room	Room Name	Square Feet	Department
100	CORRIDOR	1,615.14	FACILITIES MANAGEMENT ADMIN OFFICE
100A	VESTIBULE	110.69	FACILITIES MANAGEMENT ADMIN OFFICE
100B	VESTIBULE	33.95	FACILITIES MANAGEMENT ADMIN OFFICE
100E	FOYER	207.12	FACILITIES MANAGEMENT ADMIN OFFICE
101	CORRIDOR	344.88	FACILITIES MANAGEMENT ADMIN OFFICE
103	OFFICE	173.90	CUSTODIAL SERVICE
104	STORAGE-CHEMISTRY	255.59	CHEMISTRY
105	STORAGE	128.45	GEOSCIENCES
106	RESEARCH	228.35	PHYSICS
107	RESEARCH	205.37	PHYSICS
108	STORAGE-OUTSIDE	59.79	FACILITIES MANAGEMENT ADMIN OFFICE
115	STORAGE-RADIOACTIVE	141.45	PHYSICS
116	WORKROOM	169.16	ZOOLOGY
116A	RESEARCH-DNA	965.09	ZOOLOGY
116B	DARKROOM	85.51	ZOOLOGY

116C	AMPLIFICATION	232.34	ZOOLOGY
117	WORKROOM	166.77	GEOSCIENCES
118	RESEARCH-PHYSICS	166.34	PHYSICS
119	CORRIDOR	256.06	FACILITIES MANAGEMENT ADMIN OFFICE
120	RESEARCH	161.68	PHYSICS
121	RESEARCH-GEOLGY	167.50	GEOSCIENCES
122	RESEARCH-PHYSICS	182.62	PHYSICS
123	RESEARCH-ZOOLOGY	176.62	ZOOLOGY
124	RESEARCH-MICROBIOLOGY	168.51	MICROBIOLOGY
125	RESEARCH-MICROBIOLOGY	699.91	MICROBIOLOGY
126	RESEARCH-MICROBIOLOGY	92.13	MICROBIOLOGY
127	WORKROOM	118.87	PHYSICS
128	RESEARCH	166.46	ZOOLOGY
129	RESEARCH-ZOOLOGY	164.10	ZOOLOGY
130	ELECTRICAL	262.74	FACILITIES MANAGEMENT ADMIN OFFICE
130A	ELECTRICAL	266.18	FACILITIES MANAGEMENT ADMIN OFFICE
131	MECHANICAL	210.85	FACILITIES MANAGEMENT ADMIN OFFICE
131A	HALL	99.01	FACILITIES MANAGEMENT ADMIN OFFICE
133	MEN	83.96	FACILITIES MANAGEMENT ADMIN OFFICE
134	SHOWER	30.32	FACILITIES MANAGEMENT ADMIN OFFICE
135	CUSTODIAL	55.92	CUSTODIAL SERVICE
136	CUSTODIAL	124.79	CUSTODIAL SERVICE
199A	STAIR	209.41	FACILITIES MANAGEMENT ADMIN OFFICE
199B	STAIR	202.67	FACILITIES MANAGEMENT ADMIN OFFICE
199C	STAIR	167.65	FACILITIES MANAGEMENT ADMIN OFFICE
199D	STAIR	27.85	FACILITIES MANAGEMENT ADMIN OFFICE
1CA	CHASE	14.46	FACILITIES MANAGEMENT ADMIN OFFICE
1E1	ELEVATOR	86.54	FACILITIES MANAGEMENT ADMIN OFFICE
1E2	ELEVATOR	89.66	FACILITIES MANAGEMENT ADMIN OFFICE
1SA	SHAFT	55.57	FACILITIES MANAGEMENT ADMIN OFFICE
1SB	SHAFT	55.75	FACILITIES MANAGEMENT ADMIN OFFICE
1SC	SHAFT	55.50	FACILITIES MANAGEMENT ADMIN OFFICE
1SD	SHAFT	58.44	FACILITIES MANAGEMENT ADMIN OFFICE
1SE	SHAFT	57.40	FACILITIES MANAGEMENT ADMIN OFFICE

**First Floor Total: 9,859.02**

## D. SCIENCE LAB BUILDING SPACE LIST

Second Floor			
Room	Room Name	Square Feet	Department
200	CORRIDOR	2,083.88	FACILITIES MANAGEMENT ADMIN OFFICE
200B	VESTIBULE	32.90	FACILITIES MANAGEMENT ADMIN OFFICE
200D	VESTIBULE	33.10	FACILITIES MANAGEMENT ADMIN OFFICE
201	CORRIDOR	256.74	FACILITIES MANAGEMENT ADMIN OFFICE
201A	STORAGE	16.47	PHYSICS
201M	CORRIDOR	270.79	FACILITIES MANAGEMENT ADMIN OFFICE
202	OFFICE	145.30	PHYSICS
202A	WORKROOM	87.21	PHYSICS
202B	STORAGE	19.14	PHYSICS
202C	OFFICE	153.55	PHYSICS
202M	OFFICE	144.66	GEOSCIENCES
202MA	WORKROOM	87.50	GEOGRAPHY
202MB	STORAGE	19.31	GEOGRAPHY
202MC	OFFICE	152.36	GEOGRAPHY
203	OFFICE	107.13	PHYSICS
203M	OFFICE	106.40	GEOSCIENCES
203MA	OFFICE	107.72	GEOSCIENCES
204	OFFICE	106.41	PHYSICS
204A	OFFICE	107.27	PHYSICS
204M	OFFICE	106.67	GEOSCIENCES
205	OFFICE	106.80	PHYSICS
205M	OFFICE	106.86	GEOGRAPHY
206	OFFICE	107.00	PHYSICS
206M	OFFICE	106.94	GEOSCIENCES
207	OFFICE	107.10	PHYSICS
207M	OFFICE	107.16	GEOSCIENCES
208	OFFICE	107.00	PHYSICS
208M	OFFICE	106.94	GEOGRAPHY
209	OFFICE	101.15	PHYSICS
209M	OFFICE	101.45	GEOGRAPHY
210	OFFICE	238.56	PHYSICS
210M	STORAGE	8.19	GEOGRAPHY
211	OFFICE	95.00	PHYSICS
212	CUSTODIAL	12.60	CUSTODIAL SERVICE
214	OFFICE	87.91	PHYSICS
220	LAB-PHYSICS	647.09	PHYSICS
221	LAB	889.99	PHYSICS
222	LAB	892.53	PHYSICS
223	LAB-NUCLEAR PHYSICS	195.97	PHYSICS
223A	STORAGE	548.49	PHYSICS
224	PREP	741.83	PHYSICS
225	LAB	729.78	PHYSICS

226	LAB	693.11	PHYSICS
227	TESTING CENTER	691.87	DEAN COLLEGE OF SCIENCE
228	LEARNING CENTER	1,729.07	DEAN COLLEGE OF SCIENCE
228A	OFFICE	108.05	DEAN COLLEGE OF SCIENCE
229	OFFICE	204.53	PHYSICS
229A	STORAGE	67.99	PHYSICS
231	OPEN LAB	370.41	PHYSICS
231A	OPEN LAB	91.02	PHYSICS
232	LAB-PHYSICS	463.75	PHYSICS
232A	STORAGE-CABLES	81.06	TELECOMMUNICATION SERVICES
232B	LAB-OPTICS	502.78	PHYSICS
232C	DARKROOM	45.38	PHYSICS
232D	HALL	11.44	PHYSICS
233	PROJECT	91.24	PHYSICS
237	FUME HOOD	124.59	PHYSICS
240	CLASSROOM	557.73	PHYSICS
241	MEN	156.25	FACILITIES MANAGEMENT ADMIN OFFICE
242	WOMEN	83.79	FACILITIES MANAGEMENT ADMIN OFFICE
244	CUSTODIAL	56.36	CUSTODIAL SERVICE
299A	STAIR	208.22	FACILITIES MANAGEMENT ADMIN OFFICE
299B	STAIR	202.72	FACILITIES MANAGEMENT ADMIN OFFICE
299C	STAIR	201.85	FACILITIES MANAGEMENT ADMIN OFFICE
2CA	CHASE	13.05	FACILITIES MANAGEMENT ADMIN OFFICE
2E1	ELEVATOR	92.23	FACILITIES MANAGEMENT ADMIN OFFICE
2E2	ELEVATOR	91.04	FACILITIES MANAGEMENT ADMIN OFFICE
2MSG	SHAFT	12.82	FACILITIES MANAGEMENT ADMIN OFFICE
2MSN	SHAFT	12.14	FACILITIES MANAGEMENT ADMIN OFFICE
2SA	SHAFT	55.79	FACILITIES MANAGEMENT ADMIN OFFICE
2SB	SHAFT	54.94	FACILITIES MANAGEMENT ADMIN OFFICE
2SC	SHAFT	55.38	FACILITIES MANAGEMENT ADMIN OFFICE
2SD	SHAFT	55.34	FACILITIES MANAGEMENT ADMIN OFFICE
2SE	SHAFT	55.34	FACILITIES MANAGEMENT ADMIN OFFICE
2SF	SHAFT	55.33	FACILITIES MANAGEMENT ADMIN OFFICE
2SG	SHAFT	13.30	FACILITIES MANAGEMENT ADMIN OFFICE
2SH	SHAFT	6.97	FACILITIES MANAGEMENT ADMIN OFFICE
2SJ	SHAFT	7.07	FACILITIES MANAGEMENT ADMIN OFFICE
2SK	SHAFT	10.22	FACILITIES MANAGEMENT ADMIN OFFICE
2SL	SHAFT	7.78	FACILITIES MANAGEMENT ADMIN OFFICE
2SM	SHAFT	6.71	FACILITIES MANAGEMENT ADMIN OFFICE
2SN	SHAFT	12.14	FACILITIES MANAGEMENT ADMIN OFFICE

Second Floor Total:	17,651.65
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Third Floor			
Room	Room Name	Square Feet	Department
300	CORRIDOR	1,932.27	FACILITIES MANAGEMENT ADMIN OFFICE
300B	VESTIBULE	32.32	FACILITIES MANAGEMENT ADMIN OFFICE
300D	VESTIBULE	32.84	FACILITIES MANAGEMENT ADMIN OFFICE
301M	CORRIDOR	270.44	FACILITIES MANAGEMENT ADMIN OFFICE
302M	OFFICE	145.26	MICROBIOLOGY
302MA	WORKROOM	88.13	MICROBIOLOGY
302MB	STORAGE	19.14	MICROBIOLOGY
302MC	OFFICE	152.38	MICROBIOLOGY
303M	OFFICE	108.31	MICROBIOLOGY
303MA	OFFICE	108.45	MICROBIOLOGY
304M	OFFICE	108.19	MICROBIOLOGY
305M	OFFICE	108.04	MICROBIOLOGY
306M	OFFICE	108.31	MICROBIOLOGY
307M	OFFICE	108.35	MICROBIOLOGY
308M	OFFICE	108.30	GEOSCIENCES
309M	OFFICE	102.35	GEOGRAPHY
310M	CUSTODIAL	7.88	CUSTODIAL SERVICE
320	LAB-CARTOGRAPHY	861.00	GEOGRAPHY
321	STORAGE	166.96	GEOGRAPHY
322	LAB-COMPUTER	183.96	GEOGRAPHY
323	PREP	256.83	GEOSCIENCES
323A	RESEARCH	123.02	GEOSCIENCES
323B	RESEARCH	119.63	GEOGRAPHY
323C	HALL	110.60	GEOSCIENCES
324	RESEARCH	162.12	GEOSCIENCES
325	RESEARCH-PALEONTOLOGY	161.87	GEOSCIENCES
326	PROJECT	182.81	GEOSCIENCES
328	LAB-GEOGRAPHY	946.18	GEOSCIENCES
329	LAB-COMPUTER	629.69	GEOGRAPHY
330	PREP	476.18	GEOSCIENCES
331	PREP	305.19	GEOSCIENCES
332	CLASSLAB	649.31	GEOSCIENCES
333	LAB	511.52	GEOSCIENCES
334	LAB	761.85	MICROBIOLOGY
335	LAB	786.59	MICROBIOLOGY
336	HALL	139.45	MICROBIOLOGY

337	PROJECT	132.77	MICROBIOLOGY
338	PREP	242.48	MICROBIOLOGY
339	SUPPLIES	328.06	MICROBIOLOGY
339A	PREP	132.87	MICROBIOLOGY
340	LAVATORY	110.01	MICROBIOLOGY
341	EQUIPMENT	39.23	MICROBIOLOGY
342	OFFICE	77.07	MICROBIOLOGY
344	LAB	946.87	MICROBIOLOGY
345	LAB	945.27	MICROBIOLOGY
346	RESEARCH	207.27	GEOSCIENCES
346A	RESEARCH	343.76	GEOSCIENCES
347	MEN	158.06	FACILITIES MANAGEMENT ADMIN OFFICE
348	WOMEN	84.76	FACILITIES MANAGEMENT ADMIN OFFICE
349	CUSTODIAL	57.34	CUSTODIAL SERVICE
399A	STAIR	207.24	FACILITIES MANAGEMENT ADMIN OFFICE
399B	STAIR	201.48	FACILITIES MANAGEMENT ADMIN OFFICE
399C	STAIR	201.69	FACILITIES MANAGEMENT ADMIN OFFICE
3CA	CHASE	14.09	FACILITIES MANAGEMENT ADMIN OFFICE
3E1	ELEVATOR	94.42	FACILITIES MANAGEMENT ADMIN OFFICE
3E2	ELEVATOR	93.24	FACILITIES MANAGEMENT ADMIN OFFICE
3SA	SHAFT	55.92	FACILITIES MANAGEMENT ADMIN OFFICE
3SB	SHAFT	55.30	FACILITIES MANAGEMENT ADMIN OFFICE
3SC	SHAFT	55.82	FACILITIES MANAGEMENT ADMIN OFFICE
3SD	SHAFT	55.61	FACILITIES MANAGEMENT ADMIN OFFICE
3SE	SHAFT	55.38	FACILITIES MANAGEMENT ADMIN OFFICE
3SF	SHAFT	55.38	FACILITIES MANAGEMENT ADMIN OFFICE
3SG	SHAFT	12.20	FACILITIES MANAGEMENT ADMIN OFFICE
3SH	SHAFT	6.80	FACILITIES MANAGEMENT ADMIN OFFICE
3SJ	SHAFT	15.95	FACILITIES MANAGEMENT ADMIN OFFICE
3SK	SHAFT	6.09	FACILITIES MANAGEMENT ADMIN OFFICE
3SL	SHAFT	7.11	FACILITIES MANAGEMENT ADMIN OFFICE
3SM	SHAFT	4.50	FACILITIES MANAGEMENT ADMIN OFFICE
3SN	SHAFT	12.03	FACILITIES MANAGEMENT ADMIN OFFICE

Third Floor Total: 16,091.79

## D. SCIENCE LAB BUILDING SPACE LIST

Fourth Floor			
Room	Room Name	Square Feet	Department
400	CORRIDOR	2,098.62	FACILITIES MANAGEMENT ADMIN OFFICE
400B	VESTIBULE	33.07	FACILITIES MANAGEMENT ADMIN OFFICE
400D	VESTIBULE	33.81	FACILITIES MANAGEMENT ADMIN OFFICE
401	CORRIDOR	261.40	FACILITIES MANAGEMENT ADMIN OFFICE
401M	CORRIDOR	276.97	FACILITIES MANAGEMENT ADMIN OFFICE
402	OFFICE	144.50	ZOOLOGY
402A	WORKROOM	85.46	ZOOLOGY
402B	STORAGE	18.78	ZOOLOGY
402C	OFFICE	155.21	ZOOLOGY
402M	OFFICE	144.84	BOTANY
402MA	WORKROOM	85.94	BOTANY
402MB	STORAGE	19.37	BOTANY
402MC	OFFICE	155.21	BOTANY
403	OFFICE	110.34	ZOOLOGY
403A	OFFICE	104.90	ZOOLOGY
403M	OFFICE	108.89	BOTANY
403MA	OFFICE	107.08	CHEMISTRY
404	OFFICE	107.49	ZOOLOGY
404M	OFFICE	107.37	BOTANY
405	OFFICE	107.05	ZOOLOGY
405M	OFFICE	107.40	ZOOLOGY
406	OFFICE	107.37	ZOOLOGY
406M	OFFICE	107.96	BOTANY
407	OFFICE	107.38	ZOOLOGY
407M	OFFICE	107.67	BOTANY
408	OFFICE	107.45	ZOOLOGY
408M	OFFICE	107.69	ZOOLOGY
409	OFFICE	101.30	ZOOLOGY
409M	OFFICE	100.57	BOTANY
410	STORAGE	16.78	BOTANY
410M	CUSTODIAL	7.71	CUSTODIAL SERVICE
411	CUSTODIAL	10.76	CUSTODIAL SERVICE
419	LAB	135.78	BOTANY
419A	LAB-BOTANY	205.99	BOTANY
420	EXHIBIT	689.09	HERBARIUM
421	CLASSLAB	950.83	BOTANY
422	LAB	948.61	BOTANY
423	PREP	445.52	BOTANY
423A	STORAGE-AV	27.50	BOTANY
423B	OFFICE	104.09	BOTANY

423C	STUDY	346.10	BOTANY
424	CLASSLAB	947.00	BOTANY
425	LAB	910.33	BOTANY
426	LAB	916.38	ZOOLOGY
427	LAB	941.55	ZOOLOGY
428	PREP	622.58	ZOOLOGY
428A	OFFICE	106.31	ZOOLOGY
428B	STORAGE	203.47	ZOOLOGY
429	LAB	950.17	ZOOLOGY
430	LAB	944.66	ZOOLOGY
440	STORAGE-SPECIMEN	560.21	ZOOLOGY
441	MEN	158.87	FACILITIES MANAGEMENT ADMIN OFFICE
442	WOMEN	82.56	FACILITIES MANAGEMENT ADMIN OFFICE
444	CUSTODIAL	57.21	CUSTODIAL SERVICE
499A	STAIR	206.53	FACILITIES MANAGEMENT ADMIN OFFICE
499B	STAIR	202.72	FACILITIES MANAGEMENT ADMIN OFFICE
499C	STAIR	201.85	FACILITIES MANAGEMENT ADMIN OFFICE
4CA	CHASE	18.65	FACILITIES MANAGEMENT ADMIN OFFICE
4E1	ELEVATOR	88.25	FACILITIES MANAGEMENT ADMIN OFFICE
4E2	ELEVATOR	84.31	FACILITIES MANAGEMENT ADMIN OFFICE
4MSG	SHAFT	13.00	FACILITIES MANAGEMENT ADMIN OFFICE
4MSN	SHAFT	10.93	FACILITIES MANAGEMENT ADMIN OFFICE
4SA	SHAFT	56.26	FACILITIES MANAGEMENT ADMIN OFFICE
4SB	SHAFT	55.64	FACILITIES MANAGEMENT ADMIN OFFICE
4SC	SHAFT	55.85	FACILITIES MANAGEMENT ADMIN OFFICE
4SD	SHAFT	55.80	FACILITIES MANAGEMENT ADMIN OFFICE
4SE	SHAFT	55.80	FACILITIES MANAGEMENT ADMIN OFFICE
4SF	SHAFT	55.80	FACILITIES MANAGEMENT ADMIN OFFICE
4SG	SHAFT	12.63	FACILITIES MANAGEMENT ADMIN OFFICE
4SH	SHAFT	7.17	FACILITIES MANAGEMENT ADMIN OFFICE
4SJ	SHAFT	6.41	FACILITIES MANAGEMENT ADMIN OFFICE
4SK	SHAFT	6.33	FACILITIES MANAGEMENT ADMIN OFFICE
4SL	SHAFT	7.67	FACILITIES MANAGEMENT ADMIN OFFICE
4SM	SHAFT	4.50	FACILITIES MANAGEMENT ADMIN OFFICE
4SN	SHAFT	11.13	FACILITIES MANAGEMENT ADMIN OFFICE

Fourth Floor Total:	17,728.38
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Fifth Floor			
Room	Room Name	Square Feet	Department
500	CORRIDOR	2,037.12	FACILITIES MANAGEMENT ADMIN OFFICE
500B	VESTIBULE	32.69	FACILITIES MANAGEMENT ADMIN OFFICE
500D	VESTIBULE	33.00	FACILITIES MANAGEMENT ADMIN OFFICE
501M	CORRIDOR	273.76	FACILITIES MANAGEMENT ADMIN OFFICE
502M	OFFICE	145.14	CHEMISTRY
502MA	WORKROOM	85.38	CHEMISTRY
502MB	STORAGE	19.00	CHEMISTRY
502MC	OFFICE	153.79	CHEMISTRY
503M	OFFICE	219.88	CHEMISTRY
504M	OFFICE	106.73	CHEMISTRY
505M	OFFICE	107.18	CHEMISTRY
506M	OFFICE	106.35	CHEMISTRY
507M	OFFICE	106.86	CHEMISTRY
508M	OFFICE	106.92	CHEMISTRY
509M	OFFICE	100.27	CHEMISTRY
510M	CUSTODIAL	7.71	CUSTODIAL SERVICE
511	STORAGE	60.92	CHEMISTRY
512	LAB-INSTRUMENTATION	576.58	CHEMISTRY
513	RESEARCH	360.53	CHEMISTRY
514	OPEN LAB	216.15	CHEMISTRY
515	CLASSLAB	692.80	CHEMISTRY
515A	PREP	122.35	CHEMISTRY
515B	STORAGE	7.00	CHEMISTRY
516	BALANCE RM	375.46	CHEMISTRY
517	RESEARCH-CHEMICAL	207.89	CHEMISTRY
518	RESEARCH-CHEMICAL	208.62	CHEMISTRY
519	OFFICE	95.62	CHEMISTRY
520	STORAGE	415.04	CHEMISTRY
521	ISSUE	468.78	CHEMISTRY
522	RESEARCH-CHEMICAL	117.26	CHEMISTRY
523	RESEARCH-CHEMICAL	116.01	CHEMISTRY
524	RESEARCH-CHEMICAL	323.59	CHEMISTRY
525	LAB	1,241.97	CHEMISTRY
525A	OFFICE	122.83	CHEMISTRY

526	LAB	939.57	CHEMISTRY
527	LAB	913.92	CHEMISTRY
528	BALANCE RM	167.94	CHEMISTRY
529	PREP	593.65	CHEMISTRY
530	BALANCE RM	170.32	CHEMISTRY
531	LAB	950.45	CHEMISTRY
532	LAB	943.65	CHEMISTRY
540	CLASSROOM	556.48	CHEMISTRY
541	MEN	158.51	FACILITIES MANAGEMENT ADMIN OFFICE
542	WOMEN	82.88	FACILITIES MANAGEMENT ADMIN OFFICE
544	CUSTODIAL	58.01	CUSTODIAL SERVICE
599A	STAIR	206.77	FACILITIES MANAGEMENT ADMIN OFFICE
599B	STAIR	202.72	FACILITIES MANAGEMENT ADMIN OFFICE
599C	STAIR	203.54	FACILITIES MANAGEMENT ADMIN OFFICE
5CA	CHASE	14.92	FACILITIES MANAGEMENT ADMIN OFFICE
5E1	ELEVATOR	93.43	FACILITIES MANAGEMENT ADMIN OFFICE
5E2	ELEVATOR	93.99	FACILITIES MANAGEMENT ADMIN OFFICE
5SA	SHAFT	56.03	FACILITIES MANAGEMENT ADMIN OFFICE
5SB	SHAFT	55.64	FACILITIES MANAGEMENT ADMIN OFFICE
5SC	SHAFT	54.78	FACILITIES MANAGEMENT ADMIN OFFICE
5SD	SHAFT	54.87	FACILITIES MANAGEMENT ADMIN OFFICE
5SE	SHAFT	54.87	FACILITIES MANAGEMENT ADMIN OFFICE
5SF	SHAFT	54.87	FACILITIES MANAGEMENT ADMIN OFFICE
5SG	SHAFT	11.65	FACILITIES MANAGEMENT ADMIN OFFICE
5SH	SHAFT	7.77	FACILITIES MANAGEMENT ADMIN OFFICE
5SJ	SHAFT	8.13	FACILITIES MANAGEMENT ADMIN OFFICE
5SK	SHAFT	6.25	FACILITIES MANAGEMENT ADMIN OFFICE
5SL	SHAFT	12.57	FACILITIES MANAGEMENT ADMIN OFFICE
5SM	SHAFT	5.42	FACILITIES MANAGEMENT ADMIN OFFICE
5SN	SHAFT	11.15	FACILITIES MANAGEMENT ADMIN OFFICE

Fifth Floor Total:	16,115.93
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## D. SCIENCE LAB BUILDING SPACE LIST

Sixth Floor			
Room	Room Name	Square Feet	Department
600	CORRIDOR	669.93	FACILITIES MANAGEMENT ADMIN OFFICE
600A	VESTIBULE	33.97	FACILITIES MANAGEMENT ADMIN OFFICE
601	CORRIDOR	250.68	FACILITIES MANAGEMENT ADMIN OFFICE
602	WOMEN	47.86	FACILITIES MANAGEMENT ADMIN OFFICE
603	MEN	62.33	FACILITIES MANAGEMENT ADMIN OFFICE
606	CONFERENCE	324.51	DEAN COLLEGE OF SCIENCE
607	OFFICE	106.85	CHEMISTRY
608	OFFICE	106.83	CHEMISTRY
609	OFFICE	106.84	CHEMISTRY
611	RECEPTION	221.03	DEAN COLLEGE OF SCIENCE
613	OFFICE	305.91	DEAN COLLEGE OF SCIENCE
613A	STORAGE	15.71	DEAN COLLEGE OF SCIENCE
616	ANIMAL QUARTERS	236.36	ZOOLOGY
617	LAB	187.61	ZOOLOGY
618	STORAGE	162.22	ZOOLOGY
620	WATER CLOSET	60.43	FACILITIES MANAGEMENT ADMIN OFFICE
621	LAB-ORGANIC	1,162.77	CHEMISTRY
622	HEAD HOUSE	442.74	BOTANY
622A	STORAGE	128.50	BOTANY
623	GREENHOUSE	552.12	BOTANY
624	GREENHOUSE	557.05	BOTANY
626	LAB-ORGANIC	1,159.80	CHEMISTRY
627	PREP	147.65	CHEMISTRY
627A	OFFICE	123.27	CHEMISTRY
627B	STORAGE	193.36	CHEMISTRY
627C	INSTRUMENTS	53.79	CHEMISTRY
628	MECHANICAL	141.94	FACILITIES MANAGEMENT ADMIN OFFICE
629	MECHANICAL	138.80	FACILITIES MANAGEMENT ADMIN OFFICE
630	MECHANICAL	140.05	FACILITIES MANAGEMENT ADMIN OFFICE
631	MECHANICAL	140.73	FACILITIES MANAGEMENT ADMIN OFFICE
632	MECHANICAL	139.86	FACILITIES MANAGEMENT ADMIN OFFICE
633	MECHANICAL	139.13	FACILITIES MANAGEMENT ADMIN OFFICE

699A	STAIR	206.10	FACILITIES MANAGEMENT ADMIN OFFICE
699B	STAIR	208.17	FACILITIES MANAGEMENT ADMIN OFFICE
699C	STAIR	202.29	FACILITIES MANAGEMENT ADMIN OFFICE
6CA	CHASE	37.80	FACILITIES MANAGEMENT ADMIN OFFICE
6E1	ELEVATOR	92.41	FACILITIES MANAGEMENT ADMIN OFFICE
6E2	ELEVATOR	90.57	FACILITIES MANAGEMENT ADMIN OFFICE
6SA	SHAFT	56.26	FACILITIES MANAGEMENT ADMIN OFFICE
6SB	SHAFT	55.64	FACILITIES MANAGEMENT ADMIN OFFICE
6SC	SHAFT	55.85	FACILITIES MANAGEMENT ADMIN OFFICE
6SD	SHAFT	55.80	FACILITIES MANAGEMENT ADMIN OFFICE
6SE	SHAFT	55.80	FACILITIES MANAGEMENT ADMIN OFFICE
6SF	SHAFT	55.86	FACILITIES MANAGEMENT ADMIN OFFICE
6SH	SHAFT	7.97	FACILITIES MANAGEMENT ADMIN OFFICE
6SP	SHAFT	2.36	FACILITIES MANAGEMENT ADMIN OFFICE
6SQ	SHAFT	10.55	FACILITIES MANAGEMENT ADMIN OFFICE

Sixth Floor Total:	9,454.06
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<b>Building Total:</b>	<b>94,290.95</b>
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Science Shop			
Room	Room Name	Square Feet	Department
015	SHOP-SCIENCE	1,852.78	DEAN COLLEGE OF SCIENCE
016	TUNNEL	80.00	FACILITIES MANAGEMENT ADMIN OFFICE
099	STAIR	150.74	FACILITIES MANAGEMENT ADMIN OFFICE
099A	STAIR	110.86	FACILITIES MANAGEMENT ADMIN OFFICE

Science Shop Total:	2,194.38
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# NEW SCIENCE BUILDING FOR WEBER STATE COLLEGE OGDEN UTAH :

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5A-15 WALL SECTIONS	SL-4 FURNISHINGS 4 FLOOR	SM-2 HEATING AND AIRCONDITIONING 2 FLOOR
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5A-23 STAIRS A, B AND C DETAILS		SM-10 MECHANICAL DETAILS
		SM-11 MECHANICAL DETAILS
		SM-12 MECHANICAL SCHEDULES AND DIAGRAM

H.E.F.A. PROJECT NO. AF-UTAH-41179

SIGNATURES:

*[Signature]*  
DIRECTOR: CAMPUS PLANNING

*[Signature]*  
DIRECTOR: UTAH STATE BUILDING BOARD

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NEW SCIENCE BUILDING FOR WEBER STATE COLLEGE OGDEN, UTAH, PROJECT NO. 6306, DATE 12.11.1966 AS BUILT: 7.17.1987

**ardhur mueller** ARCHITECT AIA

TOM A. THLIVERIS, ASSOCIATE ARCHITECT AIA  
1600 N. G. ROAD, SUITE 200, OGDEN, UTAH 84403

RALPH WADSWORTH, STRUCTURAL ENGINEER, 3007 LAKESIDE DRIVE, OGDEN, UTAH 84403  
GERALD D. SMITH (ASSOCIATES), MECHANICAL ENGINEER, 3007 LAKESIDE DRIVE, OGDEN, UTAH 84403  
TED WILSON, ELECTRICAL ENGINEER, 3007 LAKESIDE DRIVE, OGDEN, UTAH 84403



STEEL BEAM SCHEDULE

Table with columns: MARK, BEAM NO., BEAM TYPE, SPAN, and COMMENTS. Lists various steel beams and their specifications.

CONCRETE COLUMN SCHEDULE

Table with columns: MARK, COLUMN NO., COLUMN TYPE, and COMMENTS. Lists concrete columns and their specifications.

CONC BEAM & CONC BEAM SCHEDULE

Table with columns: MARK, BEAM NO., BEAM TYPE, SPAN, and COMMENTS. Lists concrete beams and their specifications.

CONCRETE SLAB SCHEDULE

Table with columns: MARK, SLAB NO., SLAB TYPE, THICKNESS, and COMMENTS. Lists concrete slabs and their specifications.

SCHEDULE OF BAR TYPES

Table with columns: MARK, BAR NO., BAR TYPE, and COMMENTS. Lists different bar types used in the structure.

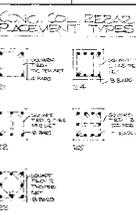
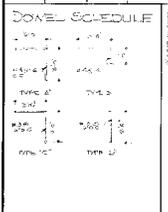
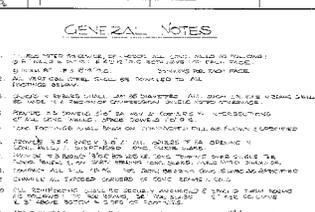


Table with columns: MARK, BEAM NO., BEAM TYPE, SPAN, and COMMENTS. Lists concrete beams and their specifications.

Table with columns: MARK, BEAM NO., BEAM TYPE, SPAN, and COMMENTS. Lists concrete beams and their specifications.

Table with columns: MARK, BEAM NO., BEAM TYPE, SPAN, and COMMENTS. Lists concrete beams and their specifications.



COLUMN SCHEDULE

Table with columns: MARK, COLUMN NO., COLUMN TYPE, and COMMENTS. Lists concrete columns and their specifications.

STEELING SCHEDULE

Table with columns: MARK, STEELING NO., STEELING TYPE, and COMMENTS. Lists steelings and their specifications.

CONCRETE ORDER SCHEDULE

Table with columns: MARK, ORDER NO., ORDER TYPE, and COMMENTS. Lists concrete orders and their specifications.

LEGEND



ROOFING SCHEDULE

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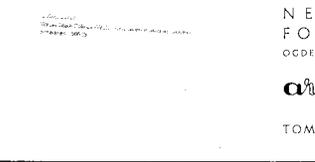
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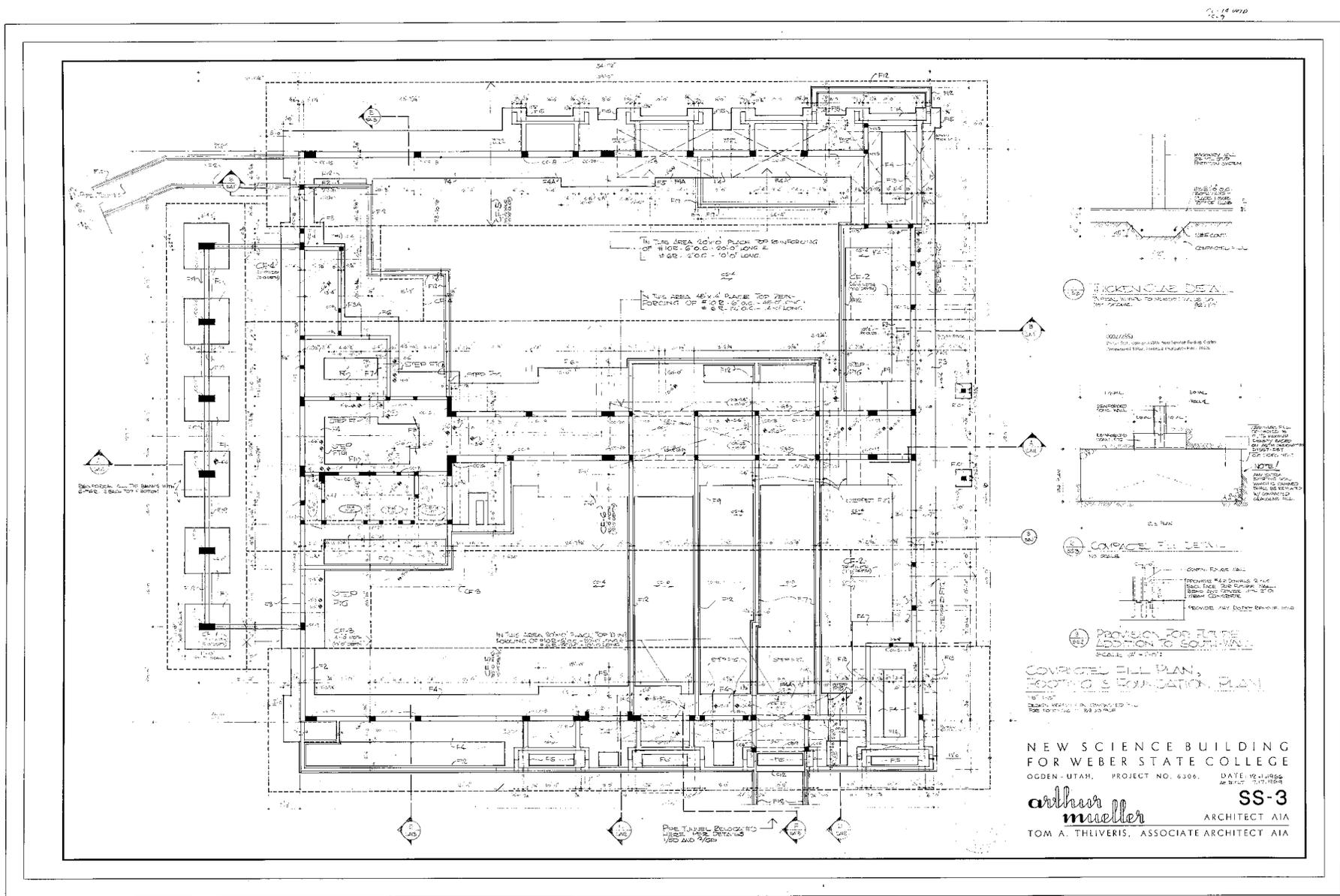
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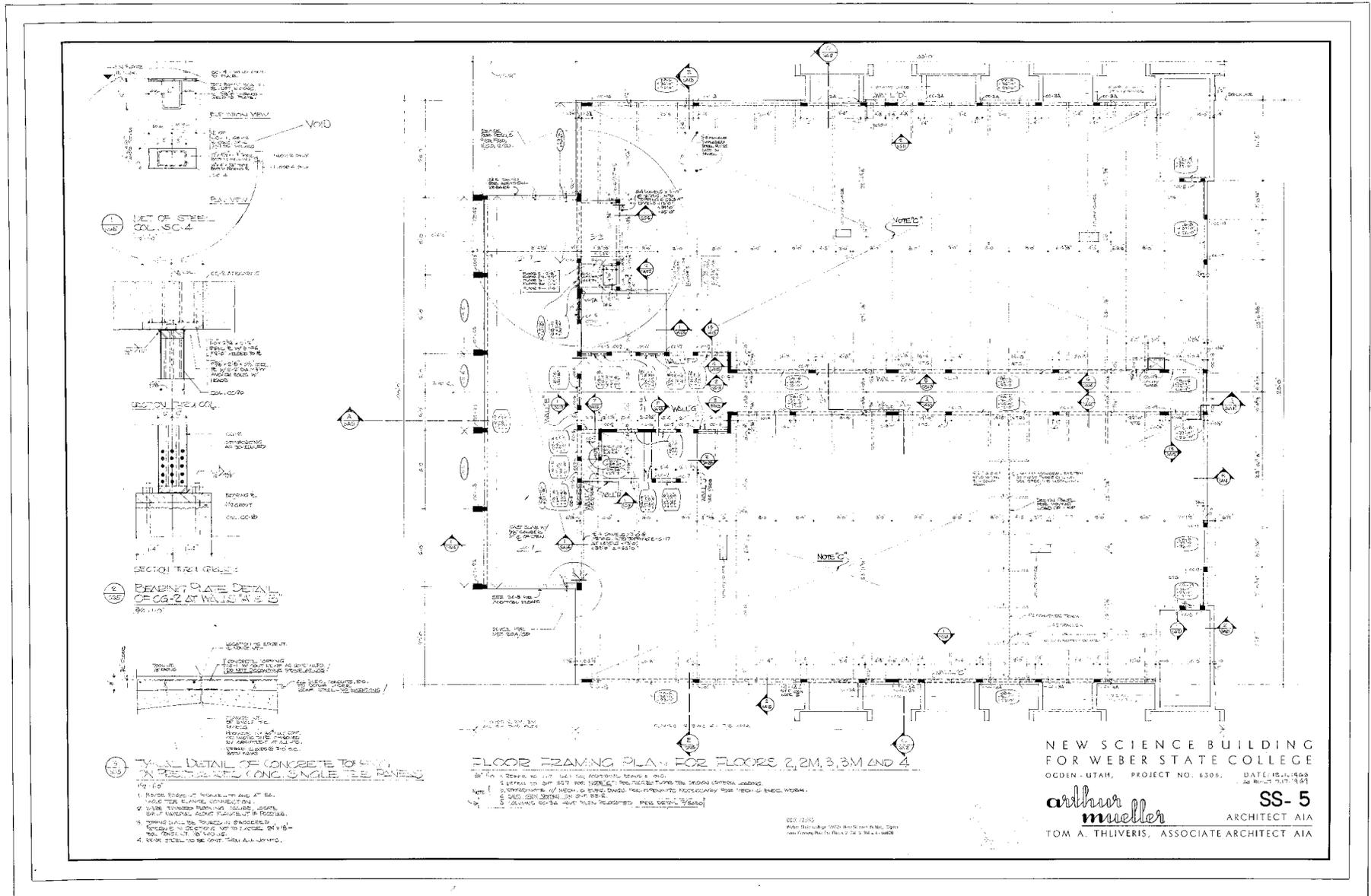
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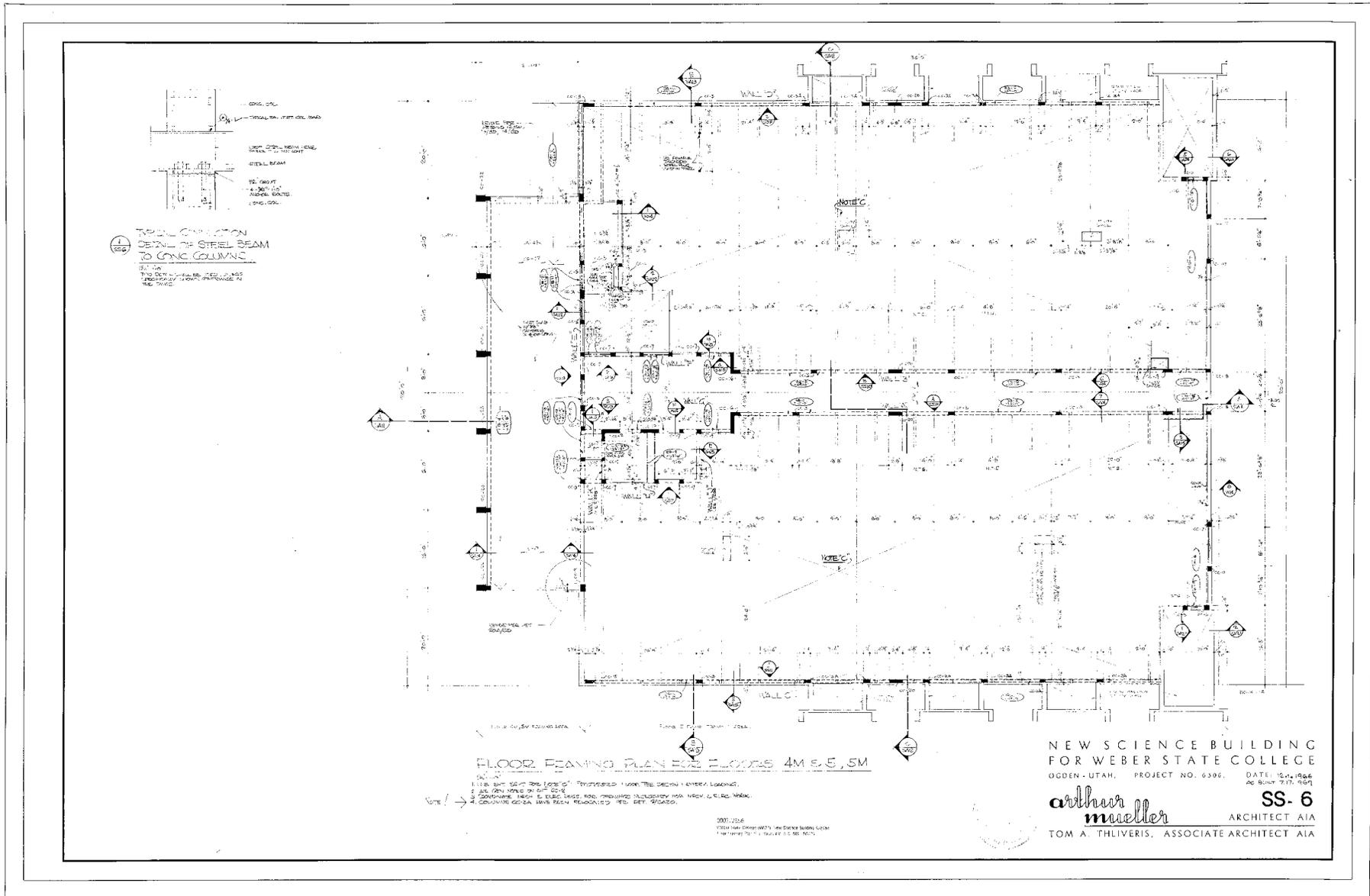
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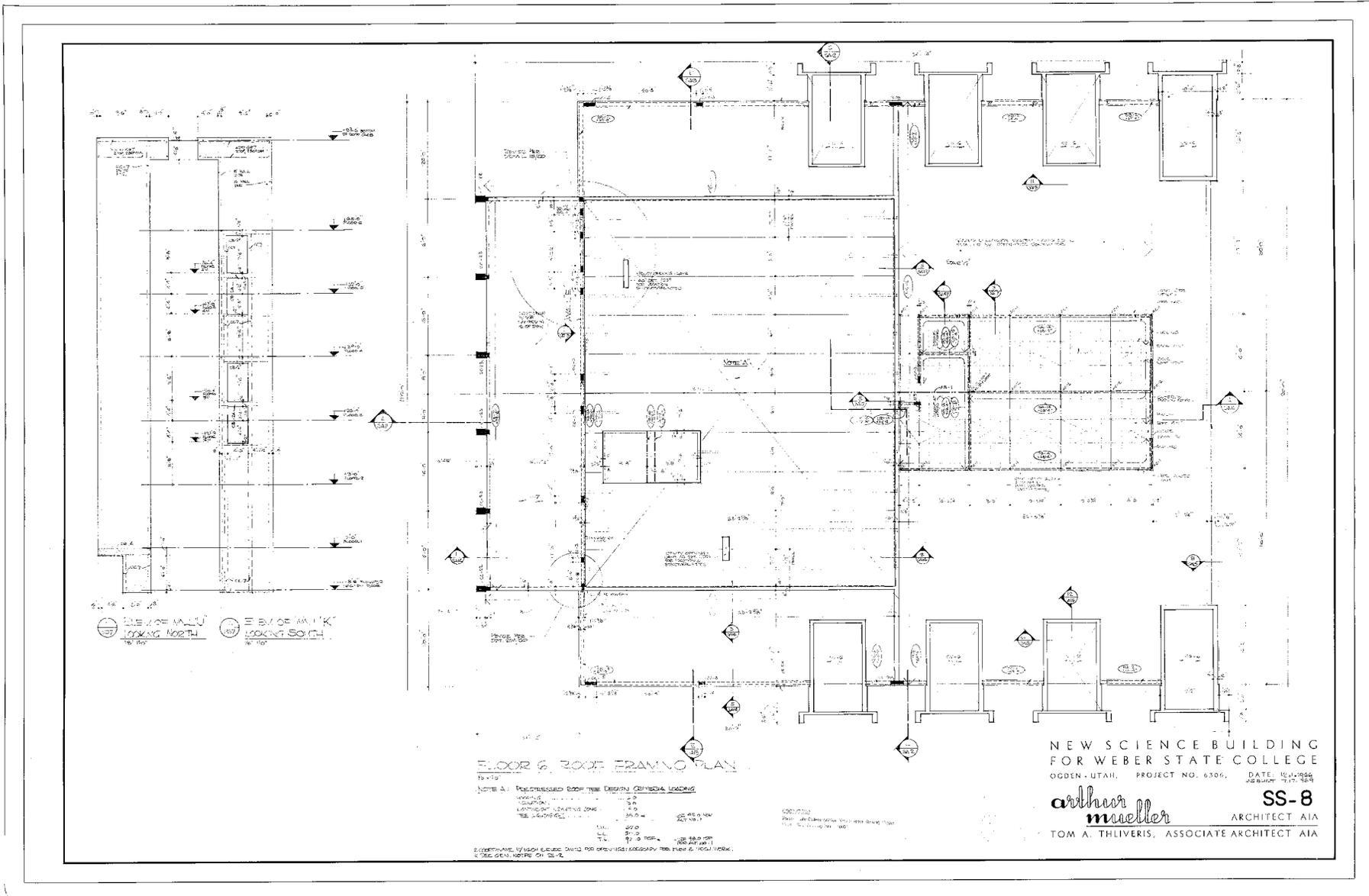
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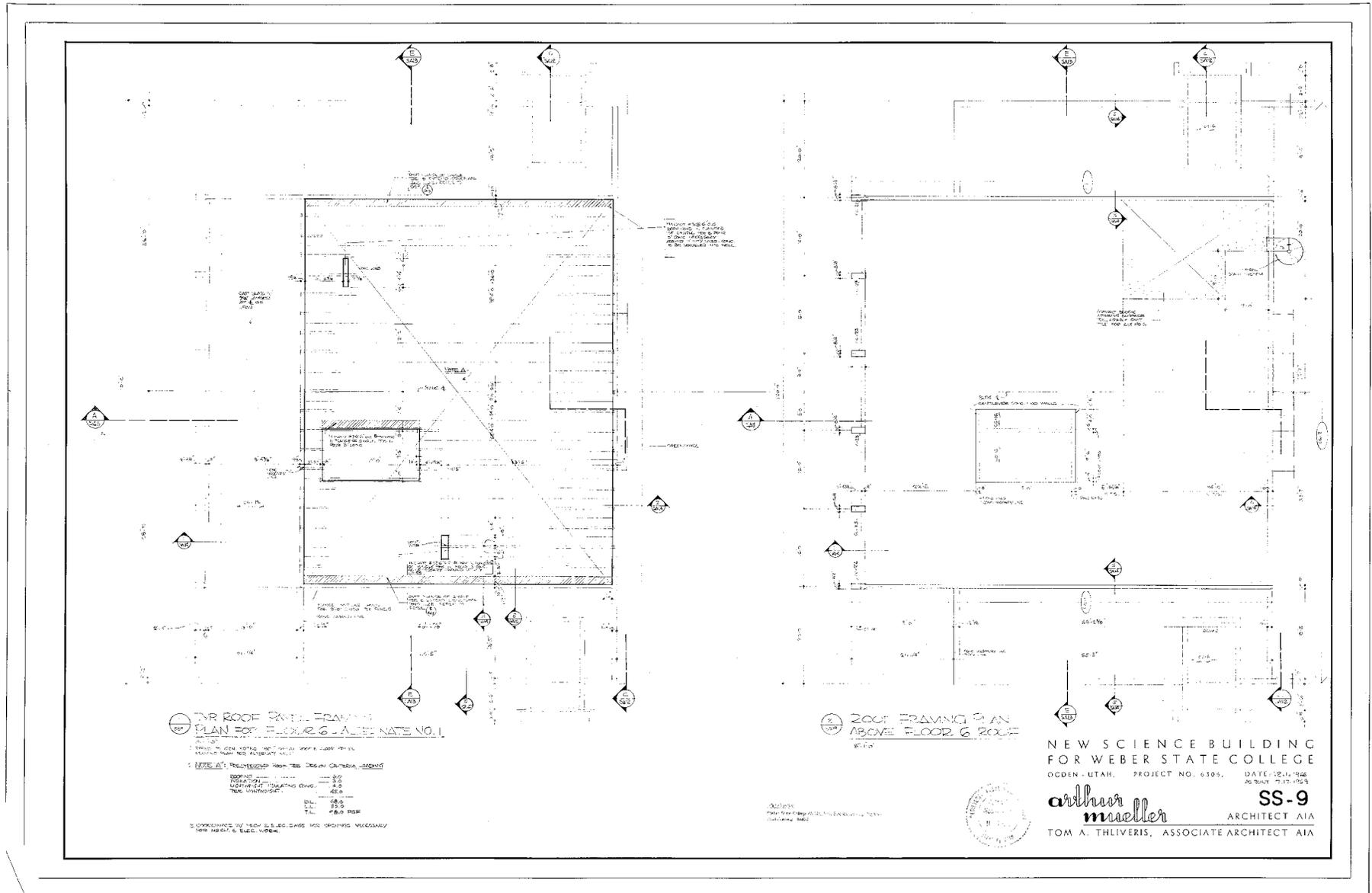


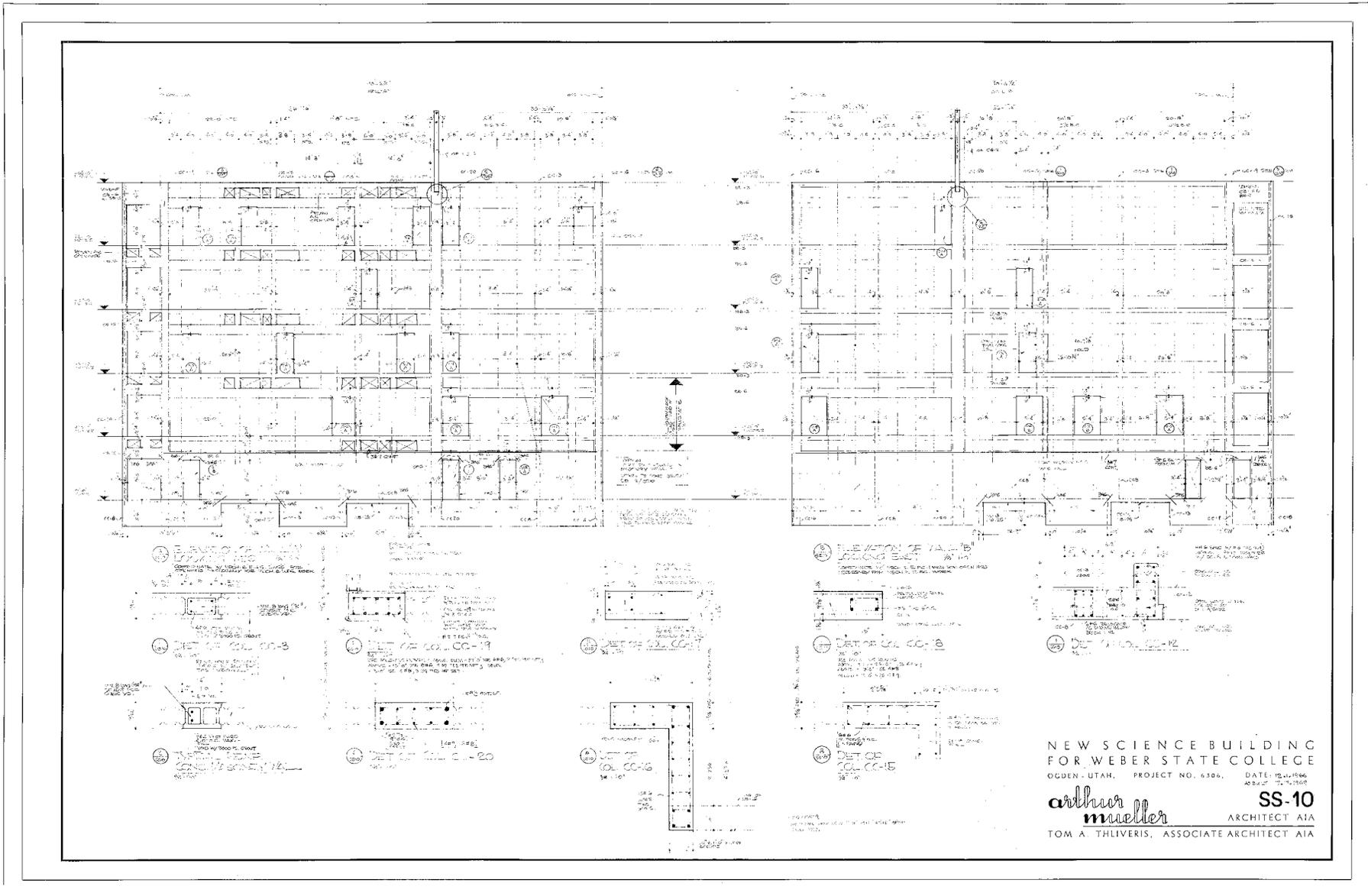


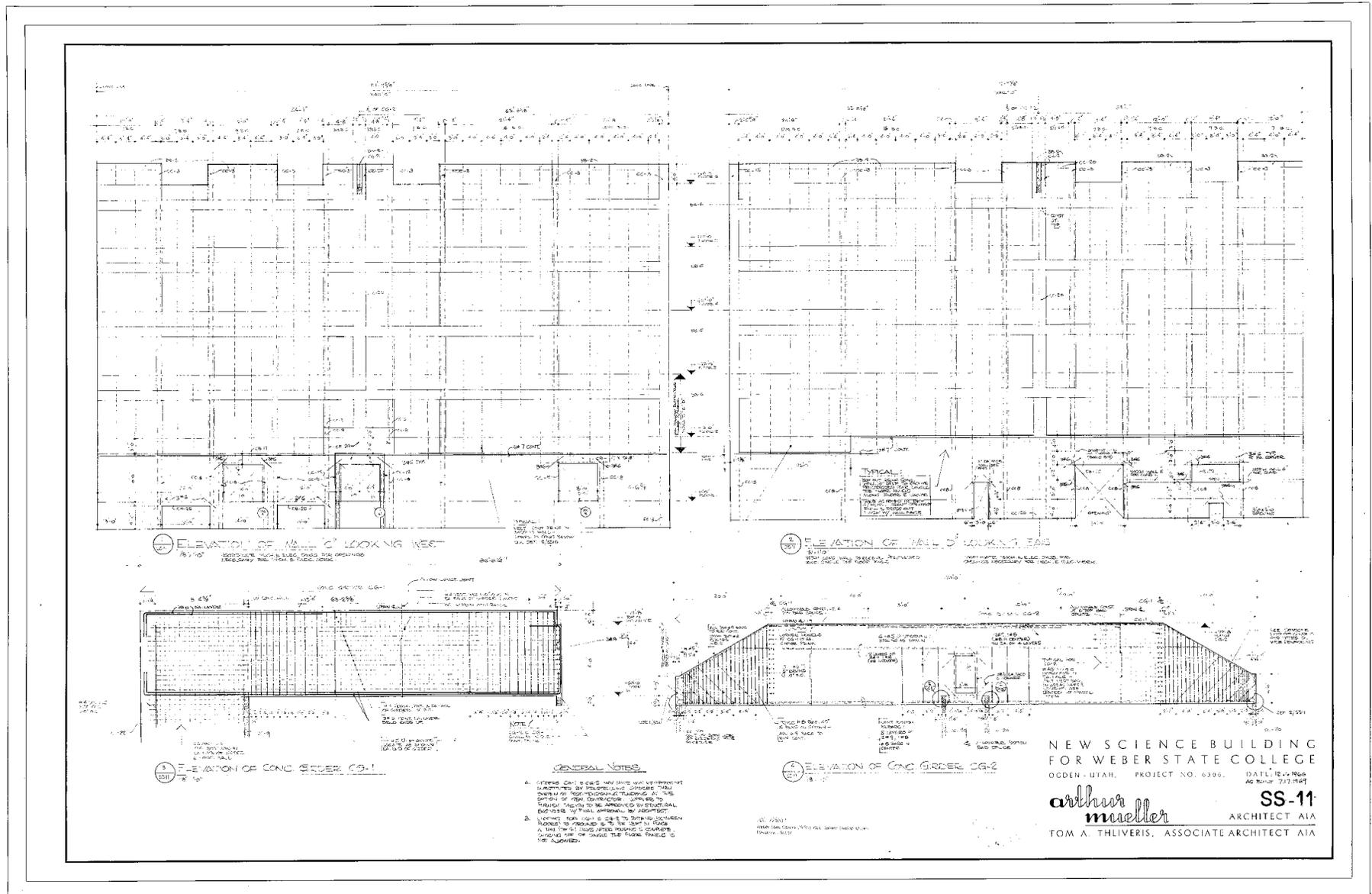




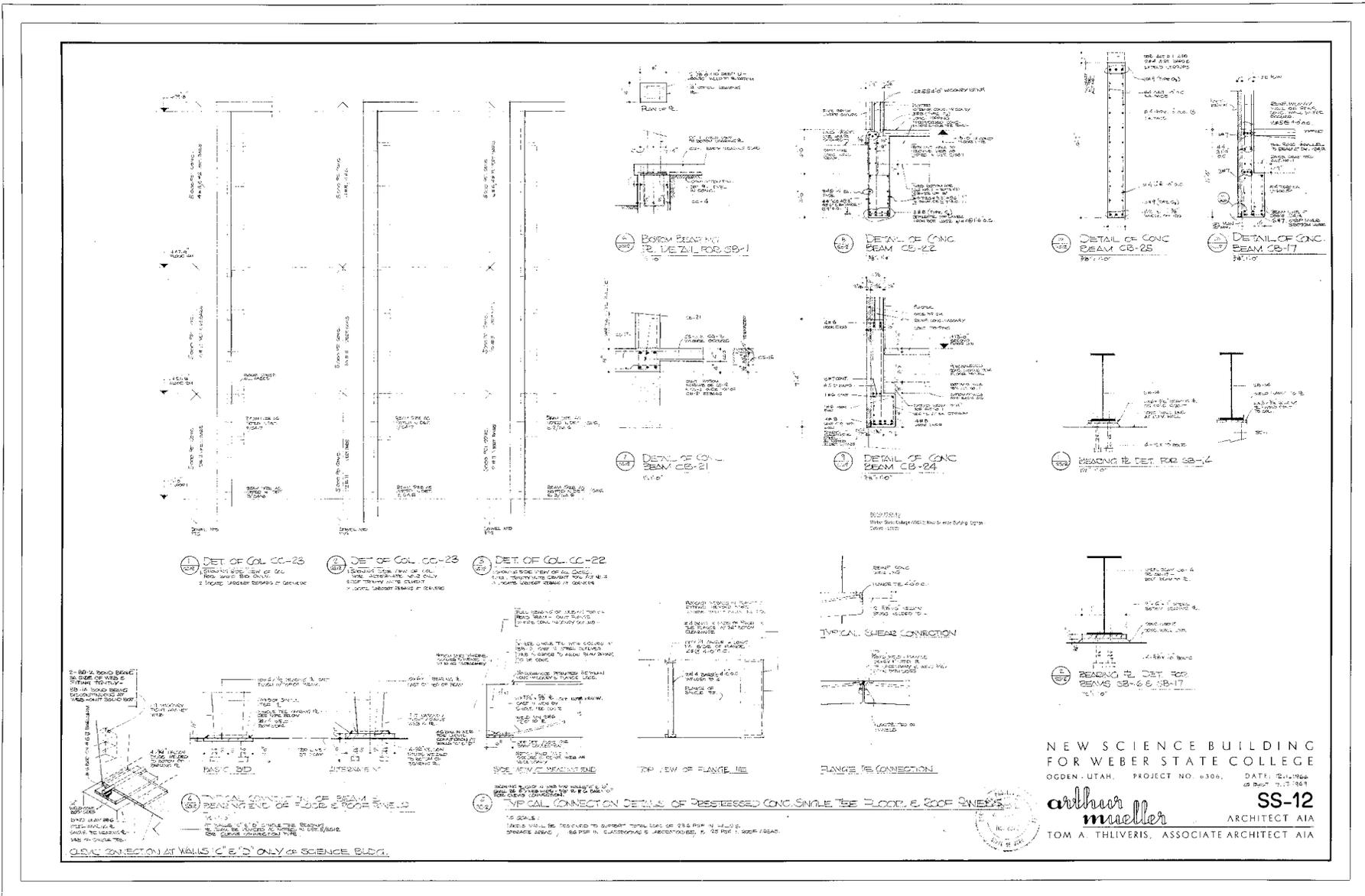


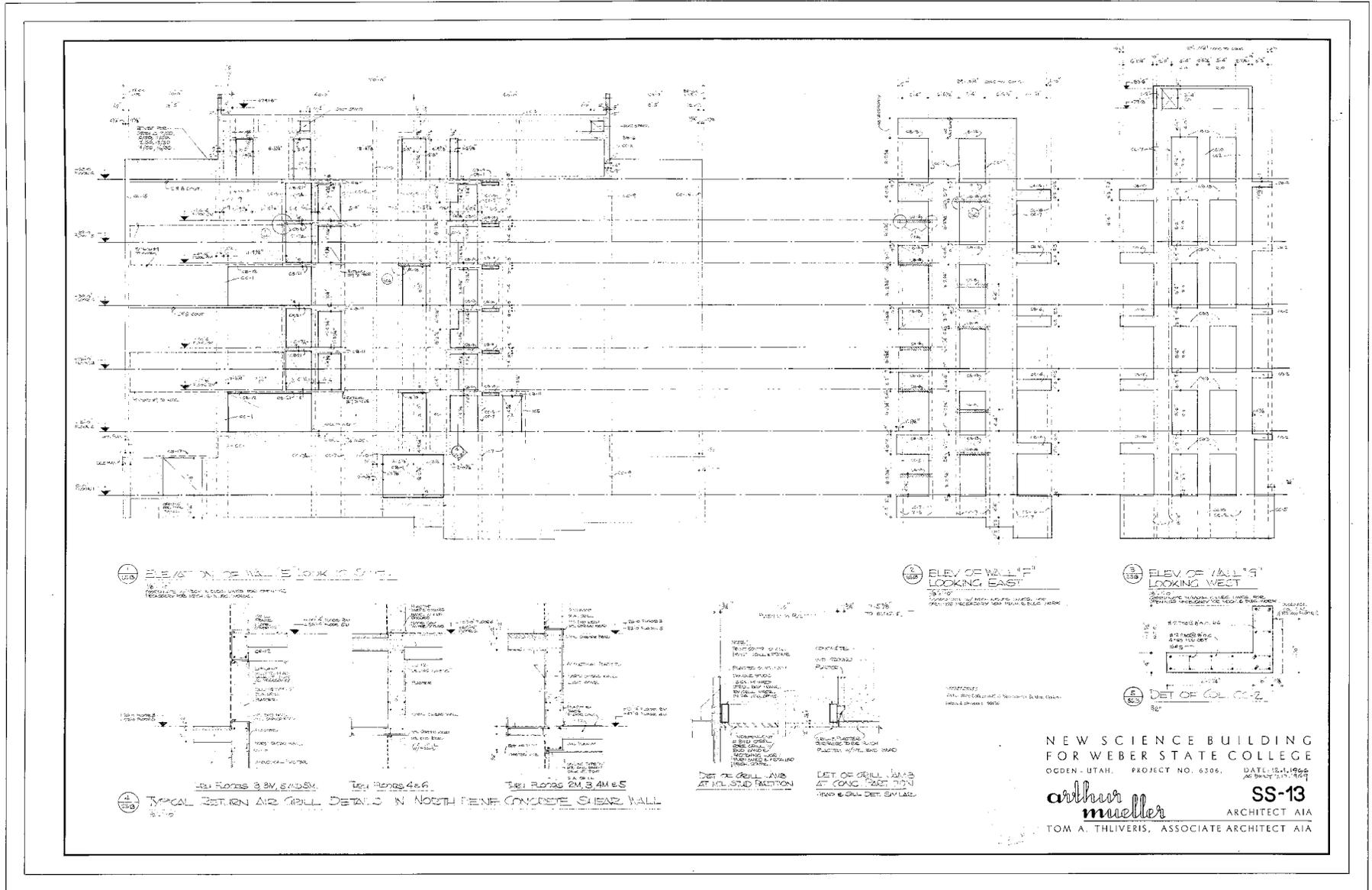






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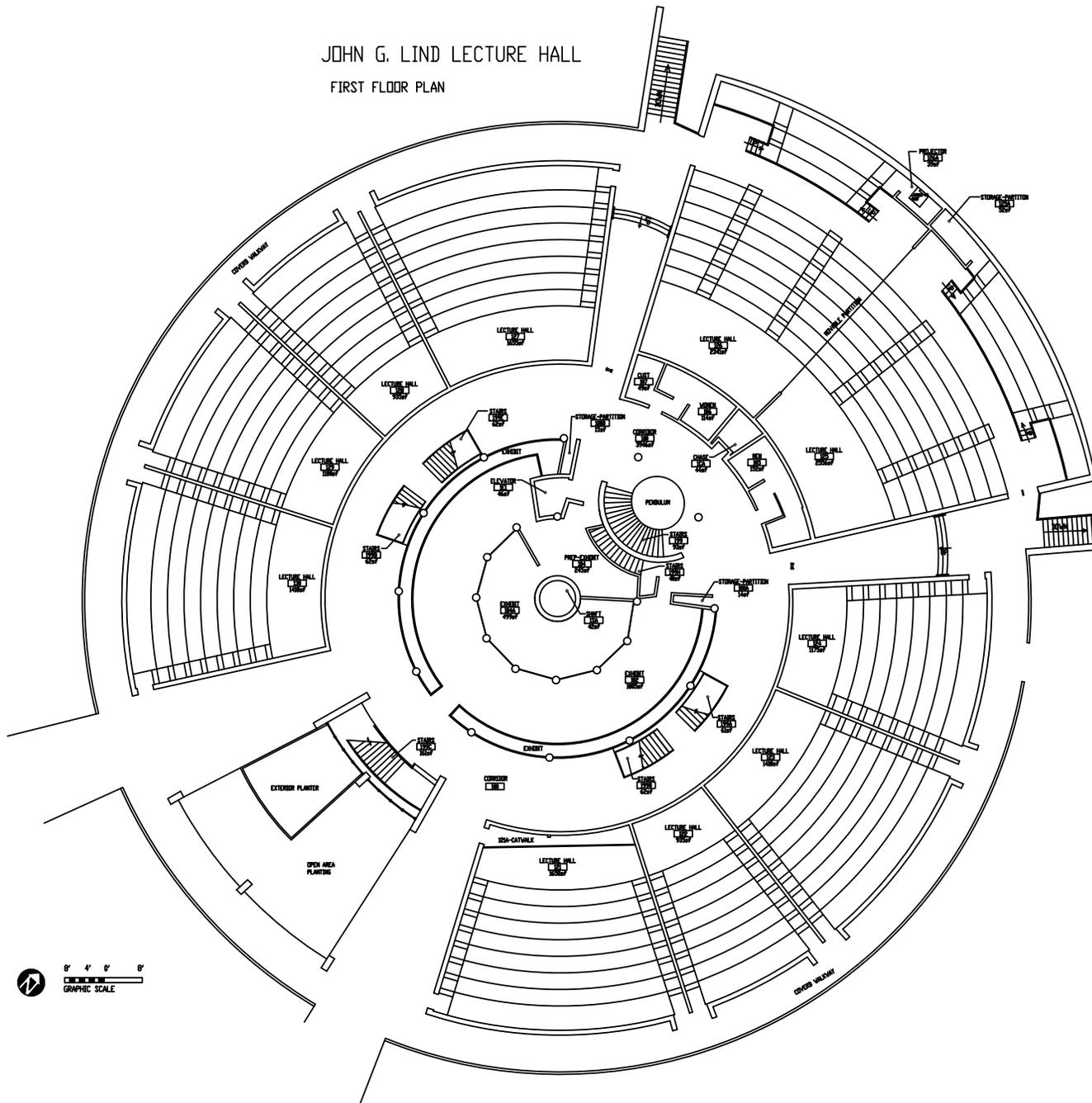








JOHN G. LIND LECTURE HALL  
FIRST FLOOR PLAN







### Lind Lecture

Basement			
Room	Room Name	Square Feet	Department
002	CORRIDOR	788.90	FACILITIES MANAGEMENT ADMIN OFFICE
002A	VESTIBULE	155.95	FACILITIES MANAGEMENT ADMIN OFFICE
002C	ELECTRICAL	68.77	FACILITIES MANAGEMENT ADMIN OFFICE
002D	VESTIBULE	159.48	FACILITIES MANAGEMENT ADMIN OFFICE
003	LAB-ANATOMY	778.73	ZOOLOGY
003A	STORAGE	86.04	ZOOLOGY
005	STUDY	365.98	MICROBIOLOGY
006	RESEARCH	849.84	ZOOLOGY
006A	RESEARCH-ECOLOGY	178.42	ZOOLOGY
006B	RESEARCH	157.17	ZOOLOGY
006C	PREP	277.62	ZOOLOGY
009	UNISEX	26.15	FACILITIES MANAGEMENT ADMIN OFFICE
010	LAB	1,207.52	PHYSICS
010A	STORAGE	9.92	PHYSICS
010B	OFFICE	120.27	PHYSICS
011	RESEARCH-CHEMICAL	554.70	CHEMISTRY
011A	CLOSET	9.86	CHEMISTRY
011B	STORAGE-LAB	233.14	CHEMISTRY
012	RESEARCH-SPECTOGRAPH	290.70	GEOSCIENCES
013	PREP	198.90	GEOSCIENCES
014	PREP	315.69	GEOGRAPHY
015	CUSTODIAL	128.19	CUSTODIAL SERVICE
015A	ELECTRICAL	41.49	FACILITIES MANAGEMENT ADMIN OFFICE
016	MECHANICAL	48.79	FACILITIES MANAGEMENT ADMIN OFFICE
017	HALL	64.51	BOTANY
017A	PREP	449.18	BOTANY
018	MECHANICAL	905.04	FACILITIES MANAGEMENT ADMIN OFFICE
019	MECHANICAL	192.47	FACILITIES MANAGEMENT ADMIN OFFICE
021	TUNNEL	752.00	FACILITIES MANAGEMENT ADMIN OFFICE
099A	STAIR	151.99	FACILITIES MANAGEMENT ADMIN OFFICE
099B	STAIR	151.64	FACILITIES MANAGEMENT ADMIN OFFICE
099D	STAIR	152.99	FACILITIES MANAGEMENT ADMIN OFFICE
099E	STAIR	156.59	FACILITIES MANAGEMENT ADMIN OFFICE
099H	STAIR	36.24	FACILITIES MANAGEMENT ADMIN OFFICE
OCA	CHASE	62.27	FACILITIES MANAGEMENT ADMIN OFFICE
OCB	CHASE	188.06	FACILITIES MANAGEMENT ADMIN OFFICE
OE1	ELEVATOR	50.84	FACILITIES MANAGEMENT ADMIN OFFICE
OSA	SHAFT	41.87	FACILITIES MANAGEMENT ADMIN OFFICE

Basement Total: 10,407.91

First Floor			
Room	Room Name	Square Feet	Department
100	CORRIDOR	3,946.04	FACILITIES MANAGEMENT ADMIN OFFICE
100A	STORAGE-PARTITION	13.56	FACILITIES MANAGEMENT ADMIN OFFICE
100B	STORAGE-PARTITION	14.92	FACILITIES MANAGEMENT ADMIN OFFICE
102	EXHIBIT	1,804.83	SCIENCE MUSEUM
104	PREP-EXHIBIT	245.36	SCIENCE MUSEUM
104A	EXHIBIT	499.27	SCIENCE MUSEUM
105	MEN	151.79	FACILITIES MANAGEMENT ADMIN OFFICE
106	WOMEN	114.43	FACILITIES MANAGEMENT ADMIN OFFICE
107	CUSTODIAL	49.49	CUSTODIAL SERVICE
121	LECTURE HALL	1,658.13	PHYSICS
122	LECTURE HALL	935.09	CHEMISTRY
123	LECTURE HALL	1,418.11	CHEMISTRY
124	LECTURE HALL	1,175.38	GEOSCIENCES
125	LECTURE HALL	2,556.36	GEOGRAPHY
125A	STORAGE-PARTITION	51.81	FACILITIES MANAGEMENT ADMIN OFFICE
126	LECTURE HALL	2,340.77	GEOGRAPHY
126A	PROJECTOR	39.02	GEOGRAPHY
127	LECTURE HALL	1,655.12	MICROBIOLOGY
128	LECTURE HALL	934.90	GEOSCIENCES
129	LECTURE HALL	1,180.22	BOTANY
130	LECTURE HALL	1,418.39	ZOOLOGY
199	STAIR	93.42	FACILITIES MANAGEMENT ADMIN OFFICE
199A	STAIR	61.03	FACILITIES MANAGEMENT ADMIN OFFICE
199B	STAIR	61.51	FACILITIES MANAGEMENT ADMIN OFFICE
199C	STAIR	161.46	FACILITIES MANAGEMENT ADMIN OFFICE
199D	STAIR	61.80	FACILITIES MANAGEMENT ADMIN OFFICE
199E	STAIR	62.42	FACILITIES MANAGEMENT ADMIN OFFICE
199H	STAIR	40.08	FACILITIES MANAGEMENT ADMIN OFFICE
1CA	CHASE	44.26	FACILITIES MANAGEMENT ADMIN OFFICE
1E1	ELEVATOR	45.58	FACILITIES MANAGEMENT ADMIN OFFICE
1SA	SHAFT	41.55	FACILITIES MANAGEMENT ADMIN OFFICE

**First Floor Total: 22,876.10**

Second Floor			
Room	Room Name	Square Feet	Department
200	FOYER	297.47	FACILITIES MANAGEMENT ADMIN OFFICE
200A	CORRIDOR	1,322.44	FACILITIES MANAGEMENT ADMIN OFFICE
200B	FOYER	295.51	FACILITIES MANAGEMENT ADMIN OFFICE
203	PLANETARIUM	875.24	PLANETARIUM
203A	LIGHT TRAP	81.26	PLANETARIUM
203B	STORAGE	29.26	PLANETARIUM
203C	CONTROL	13.65	PLANETARIUM
203D	LIGHT TRAP	76.09	PLANETARIUM
205	STORAGE	152.10	PLANETARIUM
206	STORAGE	152.88	GEOGRAPHY
208	STORAGE-AV	137.99	PLANETARIUM
209	OFFICE	115.39	PHYSICS
221	CLASSROOM	536.08	PHYSICS
222	CLASSROOM	538.12	CHEMISTRY
223	CLASSROOM	534.79	GEOGRAPHY
224	PREP-EXHIBIT	423.19	DEAN COLLEGE OF SCIENCE
225	CUSTODIAL	47.39	CUSTODIAL SERVICE
226	MEN	249.24	FACILITIES MANAGEMENT ADMIN OFFICE
227	WOMEN	201.32	FACILITIES MANAGEMENT ADMIN OFFICE
228	CLASSROOM	536.36	BOTANY
229	CLASSROOM	534.98	MICROBIOLOGY
230	CLASSLAB	534.08	ZOOLOGY
231	OFFICE	255.06	UNALLOTTED COLLEGE OF SCIENCE
231A	OFFICE	106.52	UNALLOTTED COLLEGE OF SCIENCE
231B	OFFICE	158.68	UNALLOTTED COLLEGE OF SCIENCE
299	STAIR	57.97	FACILITIES MANAGEMENT ADMIN OFFICE
299C	STAIR	168.06	FACILITIES MANAGEMENT ADMIN OFFICE
2CA	CHASE	903.01	FACILITIES MANAGEMENT ADMIN OFFICE
2E1	ELEVATOR	45.62	FACILITIES MANAGEMENT ADMIN OFFICE

**Second Floor Total: 9,379.75**

**Building Total: 42,663.76**





### Building 3

Basement			
Room	Room Name	Square Feet	Department
002	BLOWER	312.06	FACILITIES MANAGEMENT ADMIN OFFICE
003	MECHANICAL	123.14	FACILITIES MANAGEMENT ADMIN OFFICE
004	TUNNEL	888.30	FACILITIES MANAGEMENT ADMIN OFFICE
099	STAIR	100.81	FACILITIES MANAGEMENT ADMIN OFFICE

**Basement Total: 1,424.31**

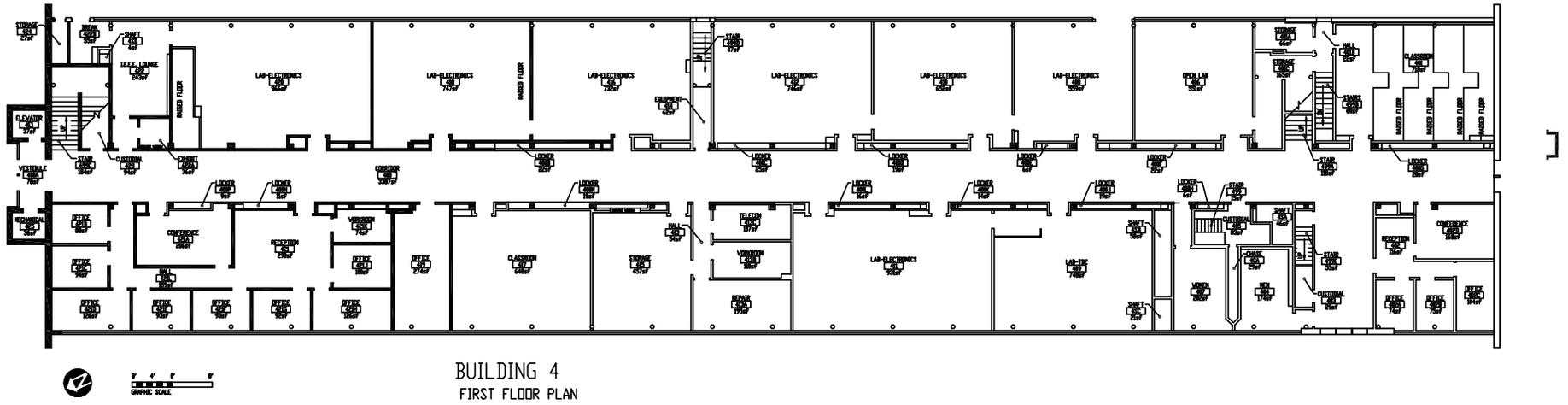
First Floor			
Room	Room Name	Square Feet	Department
300	CORRIDOR	3,005.05	FACILITIES MANAGEMENT ADMIN OFFICE
300A	LOCKERS	33.14	FACILITIES MANAGEMENT ADMIN OFFICE
300B	LOCKERS	33.51	FACILITIES MANAGEMENT ADMIN OFFICE
300C	LOCKERS	8.32	FACILITIES MANAGEMENT ADMIN OFFICE
300D	LOCKERS	4.65	FACILITIES MANAGEMENT ADMIN OFFICE
300E	LOCKERS	18.66	FACILITIES MANAGEMENT ADMIN OFFICE
300F	LOCKERS	35.10	FACILITIES MANAGEMENT ADMIN OFFICE
300G	LOCKERS	5.22	FACILITIES MANAGEMENT ADMIN OFFICE
300H	LOCKERS	31.68	FACILITIES MANAGEMENT ADMIN OFFICE
300J	LOCKERS	12.75	FACILITIES MANAGEMENT ADMIN OFFICE
300K	LOCKERS	14.32	FACILITIES MANAGEMENT ADMIN OFFICE
300L	LOCKERS	22.60	FACILITIES MANAGEMENT ADMIN OFFICE
300M	LOCKERS	4.17	FACILITIES MANAGEMENT ADMIN OFFICE
301	OFFICE	60.65	SALES SERVICE TECHNOLOGY
302	OFFICE	62.22	SALES SERVICE TECHNOLOGY
303	OFFICE	60.24	SALES SERVICE TECHNOLOGY
304	STORAGE	14.98	SALES SERVICE TECHNOLOGY
305	HALL	76.79	SALES SERVICE TECHNOLOGY
306	CLASSROOM	720.71	SALES SERVICE TECHNOLOGY
307	STORAGE	54.73	SALES SERVICE TECHNOLOGY
308	PLOTTER	41.25	SALES SERVICE TECHNOLOGY
310	CLASSROOM	694.15	SALES SERVICE TECHNOLOGY
311	CLASSROOM	568.36	SALES SERVICE TECHNOLOGY
313	CLASSROOM	938.72	MATHEMATICS
315	WOMEN	173.49	FACILITIES MANAGEMENT ADMIN OFFICE
315A	VESTIBULE	30.07	FACILITIES MANAGEMENT ADMIN OFFICE
316	CUSTODIAL	84.12	CUSTODIAL SERVICE
317	MEN	172.01	FACILITIES MANAGEMENT ADMIN OFFICE
318	OFFICE-NEUTRACEUTICAL	105.23	CHEMICAL COMPANY
319	OFFICE-NEUTRACEUTICAL	70.36	CHEMICAL COMPANY
320	RESEARCH-NEUTRACEUTICAL	1,035.45	CHEMICAL COMPANY
321	RESEARCH-NEUTRACEUTICAL	114.00	CHEMICAL COMPANY
321A	HALL	45.75	CHEMICAL COMPANY
321B	STORAGE-NEUTRACEUTICAL	54.49	CHEMICAL COMPANY

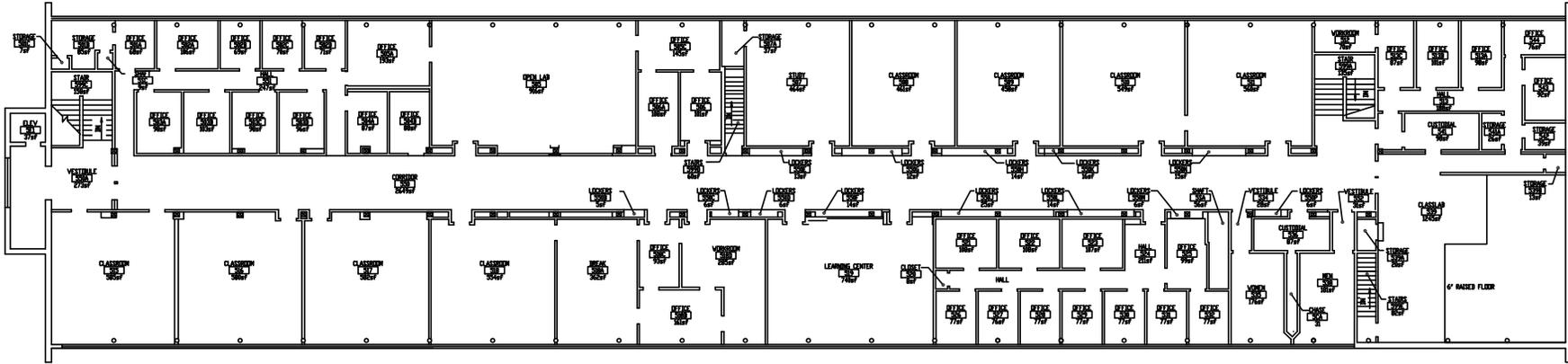
321C	OFFICE-NEUTRACEUTICAL	72.40	CHEMICAL COMPANY
322	OFFICE	79.65	UCAID
323	OFFICE	97.92	UCAID
324	WORKROOM	103.34	UCAID
325	STORAGE	12.65	UCAID
326	RECEPTION	260.40	UCAID
326B	OFFICE	81.47	UCAID
326C	OFFICE	82.29	UCAID
326D	OFFICE	179.72	UCAID
326E	MAIL	83.39	MATHEMATICS
327	HALL	89.08	MATHEMATICS
327A	OFFICE	123.99	MATHEMATICS
327B	OFFICE	125.95	MATHEMATICS
327C	HALL	154.57	MATHEMATICS
327D	OFFICE	109.41	MATHEMATICS
327E	OFFICE	106.93	MATHEMATICS
328	CLASSROOM	713.04	MATHEMATICS
328A	STORAGE	64.44	SALES SERVICE TECHNOLOGY
329	WORKROOM	77.21	MATHEMATICS
330	OFFICE	104.80	MATHEMATICS
331	STORAGE	107.14	SALES SERVICE TECHNOLOGY
332	STORAGE	78.95	SALES SERVICE TECHNOLOGY
333	CLASSROOM	732.06	SALES SERVICE TECHNOLOGY
334	RESOURCE	76.56	CHEMISTRY
335	RESOURCE	107.75	CHEMISTRY
336	CUSTODIAL	77.56	CUSTODIAL SERVICE
337	OFFICE	107.30	TELECOMMUNICATIONS BUSINESS ED
338	CLASSROOM	742.36	TELECOMMUNICATIONS BUSINESS ED
339	STORAGE-NEUTRACEUTICAL	91.98	CHEMICAL COMPANY
340	BREAK	177.66	CHEMICAL COMPANY
341	RESEARCH	71.91	CHEMISTRY
342	RESEARCH	112.39	CHEMISTRY
343	RESEARCH	116.78	CHEMISTRY
344	RESEARCH	479.93	CHEMISTRY
345	CORRIDOR	359.61	FACILITIES MANAGEMENT ADMIN OFFICE
345A	OFFICE-NEUTRACEUTICAL	90.47	CHEMICAL COMPANY
345B	OFFICE-NEUTRACEUTICAL	60.50	CHEMICAL COMPANY
345C	OFFICE-NEUTRACEUTICAL	60.23	CHEMICAL COMPANY
345D	OFFICE-NEUTRACEUTICAL	159.83	CHEMICAL COMPANY
345E	OFFICE-NEUTRACEUTICAL	93.51	CHEMICAL COMPANY
399	STAIR	12.23	FACILITIES MANAGEMENT ADMIN OFFICE
3CA	CHASE	30.37	FACILITIES MANAGEMENT ADMIN OFFICE
35A	SHAFT	17.74	FACILITIES MANAGEMENT ADMIN OFFICE

**First Floor Total: 15,094.41**

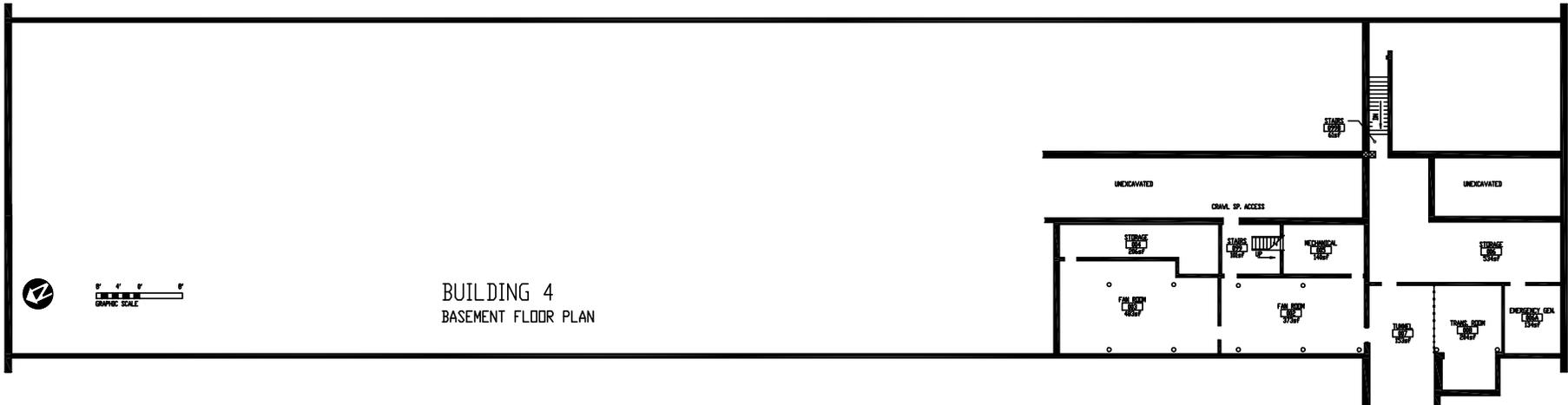
**Building Total: 16,518.72**







BUILDING 4  
SECOND FLOOR PLAN



BUILDING 4  
BASEMENT FLOOR PLAN

### Building 4

Basement			
Room	Room Name	Square Feet	Department
002	FAN ROOM	373.12	FACILITIES MANAGEMENT ADMIN OFFICE
003	FAN ROOM	482.69	FACILITIES MANAGEMENT ADMIN OFFICE
004	STORAGE	205.97	FACILITIES MANAGEMENT ADMIN OFFICE
005	MECHANICAL	139.91	FACILITIES MANAGEMENT ADMIN OFFICE
006	STORAGE	534.33	FACILITIES MANAGEMENT ADMIN OFFICE
006A	GENERATOR	133.92	FACILITIES MANAGEMENT ADMIN OFFICE
007	TUNNEL	152.52	FACILITIES MANAGEMENT ADMIN OFFICE
008	TRANSFORMER	203.80	FACILITIES MANAGEMENT ADMIN OFFICE
099	STAIR	100.98	FACILITIES MANAGEMENT ADMIN OFFICE
099B	STAIR	60.87	FACILITIES MANAGEMENT ADMIN OFFICE

**Basement Total: 2,388.11**

First Floor			
Room	Room Name	Square Feet	Department
400	CORRIDOR	3,386.93	FACILITIES MANAGEMENT ADMIN OFFICE
400A	VESTIBULE	78.23	FACILITIES MANAGEMENT ADMIN OFFICE
400B	LOCKERS	21.74	FACILITIES MANAGEMENT ADMIN OFFICE
400C	LOCKERS	25.03	FACILITIES MANAGEMENT ADMIN OFFICE
400D	LOCKERS	18.57	FACILITIES MANAGEMENT ADMIN OFFICE
400E	LOCKERS	6.25	FACILITIES MANAGEMENT ADMIN OFFICE
400F	LOCKERS	21.95	FACILITIES MANAGEMENT ADMIN OFFICE
400G	LOCKERS	20.13	FACILITIES MANAGEMENT ADMIN OFFICE
400H	LOCKERS	6.25	FACILITIES MANAGEMENT ADMIN OFFICE
400J	LOCKERS	18.78	FACILITIES MANAGEMENT ADMIN OFFICE
400K	LOCKERS	14.11	FACILITIES MANAGEMENT ADMIN OFFICE
400L	LOCKERS	15.65	FACILITIES MANAGEMENT ADMIN OFFICE
400M	LOCKERS	18.57	FACILITIES MANAGEMENT ADMIN OFFICE
400N	LOCKERS	10.94	FACILITIES MANAGEMENT ADMIN OFFICE
400P	LOCKERS	9.17	FACILITIES MANAGEMENT ADMIN OFFICE
401	CLASSROOM	717.71	ELECTRONICS
401A	STORAGE	66.24	ELECTRONICS
401B	HALL	21.52	ELECTRONICS
401C	STORAGE	164.80	TELECOMMUNICATIONS BUSINESS ED
402	RECEPTION	115.54	MATHEMATICS
402A	OFFICE	74.20	MATHEMATICS
402B	OFFICE	75.34	MATHEMATICS
402C	OFFICE	103.59	MATHEMATICS
402D	CONFERENCE	168.38	MATHEMATICS
403	CUSTODIAL	28.68	CUSTODIAL SERVICE
404	MEN	173.78	FACILITIES MANAGEMENT ADMIN OFFICE
405	CUSTODIAL	82.54	CUSTODIAL SERVICE
406	OPEN LAB	550.67	ELECTRONICS

407	WOMEN	202.11	FACILITIES MANAGEMENT ADMIN OFFICE
408	LAB-ELECTRONICS	558.77	ELECTRONICS
409	LAB-TBE	747.59	TELECOMMUNICATIONS BUSINESS ED
410	LAB-ELECTRONICS	652.32	ELECTRONICS
411	LAB-ELECTRONICS	930.71	ELECTRONICS
412	LAB-ELECTRONICS	746.09	ELECTRONICS
413	HALL	53.62	ELECTRONICS
413A	REPAIR	195.28	ELECTRONICS
413B	WORKROOM	110.00	ELECTRONICS
413C	TELECOM	106.55	TELECOMMUNICATION SERVICES
414	EQUIPMENT	62.05	ELECTRONICS
415	STORAGE	456.92	ELECTRONICS
416	LAB-ELECTRONICS	731.92	ELECTRONICS
417	CLASSROOM	648.08	ELECTRONICS
418	LAB-ELECTRONICS	746.91	ELECTRONICS
419	OFFICE	274.14	ELECTRONICS
420	LAB-ELECTRONICS	965.55	ELECTRONICS
421	RECEPTION	289.92	ELECTRONICS
421A	CONFERENCE	206.10	ELECTRONICS
421B	OFFICE	87.56	ELECTRONICS
421C	OFFICE	94.10	ELECTRONICS
421D	OFFICE	126.10	ELECTRONICS
421E	OFFICE	92.75	ELECTRONICS
421F	OFFICE	92.76	ELECTRONICS
421G	OFFICE	92.42	ELECTRONICS
421H	OFFICE	125.59	ELECTRONICS
421J	OFFICE	100.02	ELECTRONICS
421K	WORKROOM	74.14	ELECTRONICS
421L	HALL	158.70	ELECTRONICS
422	LOUNGE	242.88	ELECTRONICS
422A	EXHIBIT	36.05	ELECTRONICS
422B	BREAK	55.41	ELECTRONICS
423	CUSTODIAL	94.04	CUSTODIAL SERVICE
424	STORAGE	27.42	FACILITIES MANAGEMENT ADMIN OFFICE
425	MECHANICAL	35.69	FACILITIES MANAGEMENT ADMIN OFFICE
499	STAIR	14.50	FACILITIES MANAGEMENT ADMIN OFFICE
499A	STAIR	118.05	FACILITIES MANAGEMENT ADMIN OFFICE
499B	STAIR	60.13	FACILITIES MANAGEMENT ADMIN OFFICE
499C	STAIR	184.09	FACILITIES MANAGEMENT ADMIN OFFICE
499D	STAIR	47.28	FACILITIES MANAGEMENT ADMIN OFFICE
499E	STAIR	52.99	FACILITIES MANAGEMENT ADMIN OFFICE
4CA	CHASE	29.33	FACILITIES MANAGEMENT ADMIN OFFICE
4E1	ELEVATOR	36.67	FACILITIES MANAGEMENT ADMIN OFFICE
4SA	SHAFT	46.33	FACILITIES MANAGEMENT ADMIN OFFICE
4SB	SHAFT	58.44	FACILITIES MANAGEMENT ADMIN OFFICE
4SC	SHAFT	21.37	FACILITIES MANAGEMENT ADMIN OFFICE
4SD	SHAFT	4.08	FACILITIES MANAGEMENT ADMIN OFFICE

**First Floor Total: 16,908.81**

Second Floor			
Room	Room Name	Square Feet	Department
501A	OFFICE	68.33	MATHEMATICS
501B	STORAGE	85.50	MATHEMATICS
501C	STORAGE	7.06	MATHEMATICS
502A	OFFICE	106.07	MATHEMATICS
502B	OFFICE	68.56	MATHEMATICS
502C	OFFICE	69.86	MATHEMATICS
502D	OFFICE	71.39	MATHEMATICS
503A	OFFICE	98.15	MATHEMATICS
503B	OFFICE	102.69	MATHEMATICS
503C	OFFICE	97.81	MATHEMATICS
503D	DUMB WAITER	96.18	MATHEMATICS
504A	OFFICE	86.58	MATHEMATICS
504B	OFFICE	192.89	MATHEMATICS
505	OPEN LAB	915.81	MATHEMATICS
505A	OFFICE	192.89	MATHEMATICS
505C	OFFICE	144.91	MATHEMATICS
506	OFFICE	101.07	MATHEMATICS
506A	OFFICE	108.00	MATHEMATICS
507	STUDY	464.03	MATHEMATICS
507A	STORAGE	36.82	MATHEMATICS
508	CLASSROOM	461.20	MATHEMATICS
509	CLASSROOM	457.69	MATHEMATICS
510	CLASSROOM	549.06	MATHEMATICS
511	CLASSROOM	559.51	MATHEMATICS
512	WORKROOM	69.74	MATHEMATICS
513	HALL	187.91	MATHEMATICS
513A	OFFICE	98.18	MATHEMATICS
513B	OFFICE	101.24	MATHEMATICS
513C	OFFICE	86.74	MATHEMATICS
515	CLASSROOM	584.77	MATHEMATICS
516	CLASSROOM	580.38	MATHEMATICS
517	CLASSROOM	582.36	MATHEMATICS
518	CLASSROOM	553.53	MATHEMATICS
518A	BREAK	361.97	MATHEMATICS
518B	OFFICE	160.87	MATHEMATICS
518C	OFFICE	92.90	MATHEMATICS
518D	WORKROOM	284.85	MATHEMATICS
519	LEARNING CENTER	739.80	LEARNING SUPPORT CENTER
520	CLOSET	8.04	MATHEMATICS
521	OFFICE	107.87	MATHEMATICS
522	OFFICE	107.87	MATHEMATICS
523	OFFICE	107.48	MATHEMATICS
524	HALL	211.25	MATHEMATICS
525	OFFICE	99.07	MATHEMATICS
526	OFFICE	77.15	MATHEMATICS
527	OFFICE	75.88	MATHEMATICS
528	OFFICE	76.52	MATHEMATICS

529	OFFICE	77.36	MATHEMATICS
530	OFFICE	77.22	MATHEMATICS
531	OFFICE	76.52	MATHEMATICS
532	OFFICE	76.52	MATHEMATICS
534	VESTIBULE	27.84	FACILITIES MANAGEMENT ADMIN OFFICE
535	WOMEN	175.92	FACILITIES MANAGEMENT ADMIN OFFICE
536	CUSTODIAL	86.93	CUSTODIAL SERVICE
538	MEN	180.77	FACILITIES MANAGEMENT ADMIN OFFICE
539	CLASSLAB	1,245.03	MATHEMATICS
539A	STORAGE	20.27	MATHEMATICS
539B	STORAGE	13.05	MATHEMATICS
541	CUSTODIAL	98.04	CUSTODIAL SERVICE
541A	STORAGE	26.08	MATHEMATICS
542	STORAGE	39.29	MATHEMATICS
543	OFFICE	92.43	MATHEMATICS
544	OFFICE	76.18	MATHEMATICS
550	CORRIDOR	2,649.43	FACILITIES MANAGEMENT ADMIN OFFICE
550A	VESTIBULE	272.52	FACILITIES MANAGEMENT ADMIN OFFICE
550B	LOCKERS	4.69	FACILITIES MANAGEMENT ADMIN OFFICE
550C	LOCKERS	6.25	FACILITIES MANAGEMENT ADMIN OFFICE
550D	LOCKERS	6.25	FACILITIES MANAGEMENT ADMIN OFFICE
550E	LOCKERS	12.50	FACILITIES MANAGEMENT ADMIN OFFICE
550F	LOCKERS	13.88	FACILITIES MANAGEMENT ADMIN OFFICE
550G	LOCKERS	12.32	FACILITIES MANAGEMENT ADMIN OFFICE
550H	LOCKERS	14.09	FACILITIES MANAGEMENT ADMIN OFFICE
550J	LOCKERS	25.03	FACILITIES MANAGEMENT ADMIN OFFICE
550K	LOCKERS	15.65	FACILITIES MANAGEMENT ADMIN OFFICE
550L	LOCKERS	13.88	FACILITIES MANAGEMENT ADMIN OFFICE
550M	LOCKERS	6.07	FACILITIES MANAGEMENT ADMIN OFFICE
550N	LOCKERS	14.62	FACILITIES MANAGEMENT ADMIN OFFICE
550P	LOCKERS	6.25	FACILITIES MANAGEMENT ADMIN OFFICE
551	HALL	246.67	MATHEMATICS
552	VESTIBULE	30.64	FACILITIES MANAGEMENT ADMIN OFFICE
599A	STAIR	135.03	FACILITIES MANAGEMENT ADMIN OFFICE
599C	STAIR	158.14	FACILITIES MANAGEMENT ADMIN OFFICE
599D	STAIR	59.50	FACILITIES MANAGEMENT ADMIN OFFICE
599E	STAIR	82.39	FACILITIES MANAGEMENT ADMIN OFFICE
5CA	CHASE	30.75	FACILITIES MANAGEMENT ADMIN OFFICE
5E1	ELEVATOR	36.66	FACILITIES MANAGEMENT ADMIN OFFICE
5SA	SHAFT	55.50	FACILITIES MANAGEMENT ADMIN OFFICE
5SC	SHAFT	8.99	FACILITIES MANAGEMENT ADMIN OFFICE

Second Floor Total: 16,805.58

Building Total: 36,102.50

Weber State University - BUILDING LIST

<http://departments.weber.edu/facilities/campuskeys/campusinfo/fmbuildinginfo.asp>



Ogden, Utah

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### BUILDING LIST

STATE BLD #	2 LTR	OFFICIAL BUILDING NAME	WSU BLD #	6 LETTER	FORMAL/UNOFFICIAL BUILDING NAME	GROSS SQ FT	CONST DATE
02257	A1	Annex No. 1 (Police Academy)	65	ANNEX1	Annex 1 (Police Academy)	2,555	1957
05392	A2	Annex No. 2 (3750 Birch Ave)	21	ANNEX2	Annex 2 (English)	3,654 (F)	1956
00764	A4	Annex No. 4 (University Police)	48	ANNEX4	Annex 4 (University Police)	2,536	1956
00765	A5	Annex No. 5 (Parking Services/Public Safety)	49	ANNEX5	Annex 5 (Parking/Safety)	3,763	1956
02258	A8	Annex No. 8 (English)	68	ANNEX8	Annex 8 (English)	3,334 (F)	1956
02254	A9	Annex No. 9 (Wilderness Recreation Center)	62	ANNEX9	Annex 9 (Wilderness Recreation)	3,135 (F)	1957
07050	AL	John A. & Telitha E. Lindquist Weber State University Alumni Center	63	ALUMNI	Lindquist Alumni Center	11,419	1992
07411	AS	Annex No. 1 A (Storage)	65A	ANEX1A	Annex 1 Storage	317	1989
00750	B3	Building 3	3	BLDG 3	Building 3	19,208	1954
02235	B4	Building 4	4	BLDG 4	Building 4	40,297	1954
02242	BC	Val A. Browning Center for the Performing Arts	38	BRNCTR	Browning Center	173,479	1964, 66, 99
04019	C1	Concession Building No. 1	53A	CNCSS1	Concession Building No. 1	140	1965
04020	C2	Concession Building No. 2	53B	CNCSS2	Concession Building No. 2	140	1965
04021	C3	Concession Building No. 3	53C	CNCSS3	Concession Building No. 3	140	1965
10868	CL	Chilled Water (new)	9	CHLLWT	Chilled Water	4,607	2008
00756	CS	Campus Services	20	CMPSER	Campus Services	16,080 (F)	1956, 02
09317	CT	Cooling Towers	8	COOTWR	Cooling Towers	5,167	2001
00751	CW	Science Shop	5	CHLWTR	Science Shop	2,514	1977
02259	DC	Dee Events Center	100	DEVCTR	Dee Events Center	161,969	1977
02260	DM	Dee Events Center Marquis	101	DECMRQ	Dee Events Center Marquis	562	1979
02245	EB	East Box	52A	EASTBX	East Box	379	1953
00755	ED	David O. McKay Education Building	16	EDUCBG	McKay Education	67,305	1973
10866	EH	Elizabeth Hall	17	ELZBHL	Elizabeth Hall	94,951	2008
10329	ER	East Stewart Stadium Rest Rooms	52B	EASTRR	East Stadium Rest Rooms	288	2002
02237	ES	David O. McKay Education Storage	16A	EDSTOR	ED Storage	166	1977, 2004
02240	ET	Engineering Technology	23	ENGTEC	Engineering Technology	75,305	1977
10328	EV	Environmental Storage	32	ENVSTO	Environmental Storage	168	1999
00758	FM	Facilities Management	26	FACMAN	Facilities Management	25,721 (F)	1974, 2000
07928	FP	Fuel Pump	20A	FUELPM	Fuel Pump	24	1990, 95
10867	HC	Hurst Center	77	HRSTCT	Hurst Center		2008
02238	HP	Heating Plant	18	HEATPL	Heating Plant	10,868 (F)	1952, 1994

Weber State University - BUILDING LIST

<http://departments.weber.edu/facilities/campuskeys/campusinfo/fmbuildinginfo.asp>

09464	HW	Hazardous Waste	30	HZDWST	Hazardous Waste	241	1996
	IN	Information Booth	13	INFORM	Information Booth		TBA
09357	KA	Ethel Wattis Kimball Visual Arts	40	KIMART	Kimball Visual Arts	74,420	2001
00771	LH	LaSai Hall	74	LASALH	LaSai Hall	21,770 (F)	1964
00762	LI	Stewart Library	37	STWLBD	Stewart Library	159,062	1965
06682	LL	John G. Lind Lecture Hall	7	LINDLH	Lind Lecture Hall	46,737	1970
00763	LP	Jack D. Lampros Hall for Teaching, Learning and Technology	39	LAMPRO	Lampros Hall	21,892	1966, 03
00753	MA	William P. Miller Administration	10	MILADM	Miller Administration	45,147 (F)	1970
04018	MH	J. Willard Marriott Allied Health Sciences	34	MARAHS	Marriott Health Sciences	88,256 (F)	1987
09465	MR	Microwave Relay	60	MICRWW	Microwave Relay	128	1952
03955	MS	Engineering Technology Metal Storage	23A	MTLSTR	ET Metal Storage	759	1985
09503	OB	Observatory	24	OBSERV	Observatory	301	1999
04017	PC	Power Control Center	29	PWRCTR	Power Control Center	419	1952
02241	PH	Pump House	28	PUMPHS	Pump House	486	1952
10327	PP	Lindquist Plaza Pump House	11	PDPUMP	Plaza Pump House	247	1988
00772	PT	Promontory Tower	76	PROMTR	Promontory Tower	120,843 (F)	1968
04016	RD	Receiving and Distribution Services	27	RECDIS	Receiving and Distribution Services	23,823	1982, 07
02248	RR	Stewart Stadium Rest Room	52D	STADRR	Stadium Rest Room	733	1953
09504	SA	Salt Storage	26A	SALTST	Salt Storage	1,500	2002
06683	SB	C. William Stromberg Center for Health Promotion and Human Performance	51	STRMBG	Stromberg Center	78,846 (F)	1990
08118	SC	Student Service Center	35	SRVBLD	Student Service Center	82,700 (F)	1995
10324	SD	C. William & Bernice C. Stromberg Athletic Office Complex	52	STADHS	Stromberg Stadium Offices	20,347 (F)	1966
02249	SE	Stewart Stadium Storage Shed E	52E	SSTORE	Stadium Storage Shed E	338	1953
02250	SF	Stewart Stadium Storage Shed F	52F	SSTORF	Stadium Storage Shed F	90	1953
00770	SH	Stansbury Hall	72	STANSB	Stansbury Hall	21,770 (F)	1964
06687	SJ	Stewart Stadium Storage Shed J	52J	SSTORJ	Stadium Storage Shed J	1,455	1990
10325	SK	Elizabeth Dee Shaw Stewart Sky Suites and Press Box Complex	55	STWSKY	Stewart Stadium Sky Suites	39,507 (F)	2001
00752	SL	Science Lab	6	SCILAB	Science Lab	109,263	1969
00754	SS	Social Science	14	SOCSOI	Social Science	106,323	1972
00760	ST	Stewart Bell Tower	31	STWTWR	Stewart Bell Tower	534	1972
00761	SU	J. Farrell Shepherd Union	36	SHEPUB	Shepherd Union	186,840	1961, 08
00766	SW	Reed K Swenson Building	50	SWNSON	Swenson Building	94,082	1960, 06
02247	TC	Ticket Booth C	52C	TKBTHC	Ticket Booth C	69	1965
00757	TE	Technical Education	22	TECHNI	Technical Education	87,976 (F)	1957
02251	TG	Ticket Booth G	52G	TKBTHG	Ticket Booth G	130	1965
02252	TH	Ticket Booth H	52H	TKBTHH	Ticket Booth H	164	1965
10331	TK	Ticket Booth K	52K	TKBTHK	Ticket Booth K	86	1965
10326	TR	Tom & Nancy Davidson Track Locker Rooms	56	TRACKL	Davidson Track Locker Rooms	4,390	2005
02243	TS	Tennis Court Storage	50A	TESTOR	Tennis Court Storage	201	1985, 02
10318	V1	University Village Building One	111	VILLA1	University Village One	30,531	2002
10319	V2	University Village Building Two	112	VILLA2	University Village Two	30,531	2002
10320	V3	University Village Building Three	113	VILLA3	University Village Three	30,531	2002

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10321	V4	University Village Building Four	114	VILLA4	University Village Four	30,531	2002
10322	V5	University Village Building Five	115	VILLA5	University Village Five	30,531	2002
09358	VC	University Village Community Center	110	VILCOM	University Village Community Ctr	13,234	2002
10323	VS	University Village Storage	116	VILSTO	University Village Storage	1,209	2004
03954	WB	Edmund Orson Wattis Business Building	15	WATBUS	Wattis Business	52,269 (F)	1983
00769	WH	Wasatch Hall	70	WASACH	Wasatch Hall	49,096	1964
02244	WR	C. William & Bernice C. Stromberg Strength Training Facility	54	WEIGHT	Stromberg Strength Training	4,891	1966, 1998
03953	X0	Annex No. 10 (Upward Bound)	67	ANEX10	Annex 10 (Upward Bound)	3,445	1956
06686	X1	Annex No. 11 (ROTC)	66	ANEX11	Annex 11 (ROTC)	5,091 (F)	1956
05395	X2	Annex No. 12 (Skills Enhancement Ctr)	69	ANEX12	Annex 12 (Skills Enhancement Ctr)	2,793 (F)	1955
02253	X3	Annex No. 13 (Athletics)	61	ANEX13	Annex 13 (Athletics)	2,972 (F)	1955
10878	X4	Annex No. 14 (Rauzi life estate)	71	ANEX14	Annex 14 (Rauzi House)		1956
10879		Avondet life estate	105				
10880		Lindquist life estate	106				
		WSU-DAVIS CAMPUS (200 SERIES)			WSU-DAVIS CAMPUS (200 SERIES)		
09639	D2	Davis Building 2	202	DAVIS2	Davis Building 2	113,580	2003
		OFF-SITE LOCATIONS			OFF-SITE LOCATIONS		
07287	TL	Training and Learning Center	300	TRNLRN	TLC	15,336	1986, 1997
10330	WW	WSU-West	361	WSUWST	West Center	7,556	2002, 05
		MISCELLANEOUS			MISCELLANEOUS		
12266		Elizabeth Dee Shaw Stewart Stadium Scoreboard			Stadium Scoreboard		
	EC	Ogden Egyptian Center	330	EGYPTN	Ogden Egyptian Center		2001
	IS	The Ice Sheet		ICESHT	The Ice Sheet		

Weber State University, Ogden, Utah 84408, (801) 626-6000  
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Lind Lecture Hall  
Classroom and Lecture Room Priority Assignments  
24 January 2001

<b>Room</b>	<b>Owner</b>	<b>Maximum Capacity</b>
121	Physics	100
122	Chemistry	63
123	Chemistry/Zoology	105
124	Geosciences	82
125	Physics/Zoology/Chemistry (arbitrary order)	129
126	Botany/Zoology/Chemistry/Math	161
127	Microbiology	120
128	Microbiology	62
129	Botany	88
130	Zoology	104
221	Zoology/Mathematics/Physics*	39
222	Mathematics	40
223	Mathematics	40
228	Botany	40
229	Microbiology	37
230	Center for Science and Math Education	24
203	Planetarium/Physics	60

\*Priority for Physical Science Honors – 1 course/semester



**College of Science**

<u>SUBJ</u>	<u>NUM</u>	<u>CRN</u>	<u>COURSE TITLE</u>	<u>TIME</u>	<u>DAY</u>	<u>LOC'N</u>	<u>ENRL</u>	<u>MAX</u>	<u>AVAIL</u>	<u>HRS</u>	<u>CMP</u>	<u>INSTRUCTOR</u>
PHYS	2010	33364	PS/SI College Physics I	07:30 AM	MTWRF	LL121	43	100	57	5.0	WSU	Arnold, Michelle
PHYS	2020	33365	SI College Physics II	08:30 AM	MTWRF	LL121	56	70	14	5.0	WSU	Inglefield, Colin
PHYS	2220	33371	SI Phsx /Scien & Engineers II	09:30 AM	MTWRF	LL121	77	100	23	5.0	WSU	Armstrong, John
PHYS	1010	33363	PS/SI Elementary Physics	10:30 AM	TR	LL121	75	100	25	3.0	WSU	Inglefield, Colin
PHYS	1010	33361	PS/SI Elementary Physics	10:30 AM	MWF	LL121	100	100	0	3.0	WSU	Johnston, Adam
PHYS	1010	33362	PS/SI Elementary Physics	11:30 AM	MWF	LL121	54	100	46	3.0	WSU	Amiri, Farhang
PHYS	2210	33370	PS/SI Phsx /Scien & Engineers I	12:30 PM	MTWRF	LL121	52	100	48	5.0	WSU	Schroeder, Daniel
PHYS	4990	33385	Seminar in Physics	01:30 PM	W	LL121	7	20	13	1.0	WSU	Arnold, Michelle
PHYS	2010	33514	PS/SI College Physics I	05:30 PM	MW	LL121	36	36	0	5.0	WSU	Gogosha, Orest
PHYS	2220	33372	SI Phsx /Scien & Engineers II	05:30 PM	TR	LL121	21	100	79	5.0	WSU	Albretsen, Jacob
CHEM	2320	30719	Organic Chemistry II	08:30 AM	MWRF	LL122	30	72	42	5.0	WSU	Davies, Don
CHEM	1050	30551	PS/SI Intro to Gen, Organic	09:30 AM	MTWF	LL122	40	48	8	5.0	WSU	Seager, Spencer
CHEM	1010	30548	PS Introductory Chemistry	10:30 AM	MWF	LL122	60	64	4	3.0	WSU	More, Michelle
CHEM	2310	30712	Organic Chemistry I	11:30 AM	MWRF	LL122	62	72	10	5.0	WSU	Davies, Don
CHEM	1200	30617	Preparation for College Chem	12:30 PM	MWF	LL122	29	72	43	3.0	WSU	Stoker, H
CHEM	1210	30888	PS/SI Principles of Chem I	05:00 PM	W	LL122	21	24	3	5.0	WSU	Berghout, Henry
CHEM	1210	30619	PS/SI Principles of Chem I	08:30 AM	MTWF	LL123	97	96	(1)	5.0	WSU	Berghout, Henry
CHEM	1010	30546	PS Introductory Chemistry	09:30 AM	MWF	LL123	66	78	12	3.0	WSU	Johnson, Todd
CHEM	3070	30805	Biochemistry I	10:30 AM	MWF	LL123	57	72	15	4.0	WSU	Walker, Edward
CHEM	2320	30723	Organic Chemistry II	11:30 AM	MTWR	LL123	18	72	54	5.0	WSU	Lloyd, Barry
CHEM	1220	30697	SI Principles of Chemistry II	12:30 PM	MTWF	LL123	61	96	35	5.0	WSU	Seager, Spencer
CHEM	1220	30699	SI Principles of Chemistry II	06:00 PM	T	LL123	11	48	37	5.0	WSU	Banks, Lavoisier
GEO	1030	31630	PS/SI Earthquakes & Volcanoes	08:30 AM	MWF	LL124	61	82	21	3.0	WSU	Wilson, James
GEO	1030	31832	PS/SI Earthquakes & Volcanoes	09:00 AM	TR	LL124	58	82	24	3.0	WSU	Yonkee, W
GEO	1110	31653	PS/SI Dynam Earth:Physical Geo	09:30 AM	MWF	LL124	15	82	67	3.0	WSU	Wilson, James
GEO	1030	31833	PS/SI Earthquakes & Volcanoes	10:30 AM	TR	LL124	82	82	0	3.0	WSU	Nielsen, Gregory
GEO	1130	31666	PS/SI Intro to Meteorology	10:30 AM	MWF	LL124	40	82	42	3.0	WSU	Armstrong, John
GEO	1030	31636	PS/SI Earthquakes & Volcanoes	11:30 AM	MWF	LL124	78	82	4	3.0	WSU	Wilson, James
ZOOL	2200	31892	Human Physiology	09:00 AM	TR	LL125	71	90	19	4.0	WSU	Trask, Barbara
CHEM	1200	30616	Preparation for College Chem	09:30 AM	MWF	LL125	63	72	9	3.0	WSU	Herzog, Timothy
ZOOL	2100	31870	Human Anatomy	10:30 AM	TR	LL125	142	160	18	4.0	WSU	Chung, Brian
ZOOL	2100	31868	Human Anatomy	11:30 AM	MWF	LL125	109	160	51	4.0	WSU	Berthelemy, Nicole

## N. LIND LECTURE HALL CAPACITY AND USAGE

**College of Science**

<u>SUBJ</u>	<u>NUM</u>	<u>CRN</u>	<u>COURSE TITLE</u>	<u>TIME</u>	<u>DAY</u>	<u>LOC'N</u>	<u>ENRL</u>	<u>MAX</u>	<u>AVAIL</u>	<u>HRS</u>	<u>CMP</u>	<u>INSTRUCTOR</u>
CHEM	1810	34503	Life in Medicine	07:30 AM	R	LL126	14	15	1	1.0	WSU	Trask, Barbara
MICR	1810	34475	Life in Medicine	07:30 AM	R	LL126	15	40	25	1.0	WSU	Trask, Barbara
ZOOL	1810	34473	Life in Medicine	07:30 AM	R	LL126	38	45	7	1.0	WSU	Trask, Barbara
CHEM	1220	30626	SI Principles of Chemistry II	08:30 AM	MTWF	LL126	41	96	55	5.0	WSU	Herzog, Timothy
BTNY	1403	32700	LS Enviroment Appreciation	09:30 AM	MWF	LL126	33	160	127	3.0	WSU	Bozniak, Eugene
BTNY	1403	32702	LS Enviroment Appreciation	09:30 AM	MWF	LL126	0	0	0	4.0	WSU	Bozniak, Eugene
BTNY	3403	33052	Environment Appreciation	09:30 AM	MWF	LL126	3	5	2	3.0	WSU	Bozniak, Eugene
BTNY	1403	32704	LS Enviroment Appreciation	10:30 AM	MWF	LL126	76	160	84	3.0	WSU	Gatherum, Dawn
BTNY	1403	32706	LS Enviroment Appreciation	10:30 AM	MWF	LL126	0	0	0	4.0	WSU	Gatherum, Dawn
BTNY	3403	33058	Environment Appreciation	10:30 AM	MWF	LL126	2	5	3	3.0	WSU	Gatherum, Dawn
ZOOL	2200	31890	Human Physiology	11:30 AM	MWF	LL126	104	90	(14)	4.0	WSU	Skopec, Michele
BTNY	1403	32830	LS Enviroment Appreciation	12:00 PM	TR	LL126	53	160	107	3.0	WSU	Bozniak, Eugene
BTNY	1403	32835	LS Enviroment Appreciation	12:00 PM	TR	LL126	0	0	0	4.0	WSU	Bozniak, Eugene
BTNY	3403	33081	Environment Appreciation	12:00 PM	TR	LL126	1	5	4	3.0	WSU	Bozniak, Eugene
MICR	1113	31592	LS Intro to Microbiology	07:30 AM	TR	LL127	28	120	92	3.0	WSU	Domek, Matthew
MICR	1113	31593	LS Intro to Microbiology	08:30 AM	MWF	LL127	101	120	19	3.0	WSU	Jackson, Richard
MICR	1113	31601	LS Intro to Microbiology	09:00 AM	TR	LL127	53	120	67	3.0	WSU	Domek, Matthew
MICR	1153	31667	LS Elementary Public Health	09:30 AM	MWF	LL127	29	120	91	3.0	WSU	Culumber, Michele
MICR	2054	32542	LS/SI Princip of Microbiology	10:30 AM	MWF	LL127	107	120	13	4.0	WSU	Oberg, Craig
MICR	3053	32271	Microbiological Procedures	10:30 AM	TR	LL127	23	24	1	3.0	WSU	Lorowitz, William
MICR	1113	31617	LS Intro to Microbiology	11:30 AM	MWF	LL127	38	120	82	3.0	WSU	Lorowitz, William
MICR	1113	31620	LS Intro to Microbiology	05:30 PM	T	LL127	62	120	58	3.0	WSU	Jackson, Richard
MICR	1153	31670	LS Elementary Public Health	05:30 PM	R	LL127	9	120	111	3.0	WSU	Jackson, Richard
MICR	4554	32573	Virology	08:30 AM	MWF	LL128	10	30	20	4.0	WSU	Domek, Matthew
MICR	1153	31669	LS Elementary Public Health	09:00 AM	TR	LL128	33	64	31	3.0	WSU	Nakaoka, Karen
MICR	4154	32564	Microbial Genetics	09:30 AM	MWF	LL128	30	48	18	4.0	WSU	Oberg, Craig
MICR	3305	32557	Medical Microbiology	10:30 AM	MWF	LL128	11	48	37	5.0	WSU	Nakaoka, Karen
MICR	3403	32562	Tropical Diseases	10:30 AM	T	LL128	23	24	1	3.0	WSU	Nakaoka, Karen
MICR	4991	31449	Microbiology Seminar	12:30 PM	F	LL128	5	10	5	1.0	WSU	Culumber, Michele

**College of Science**

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BTNY	1203	32672	LS Plant Biology	08:30 AM	MWF	LL129	18	90	72	3.0	WSU	Harley, Suzanne
BTNY	1403	32837	LS Environment Appreciation	09:00 AM	TR	LL129	27	90	63	3.0	WSU	Bozniak, Eugene
BTNY	1403	32838	LS Environment Appreciation	09:00 AM	TR	LL129	0	0	0	4.0	WSU	Bozniak, Eugene
BTNY	3403	33264	Environment Appreciation	09:00 AM	TR	LL129	1	5	4	3.0	WSU	Bozniak, Eugene
BTNY	1203	32673	LS Plant Biology	09:30 AM	MWF	LL129	42	90	48	3.0	WSU	Deckert, Ron
BTNY	1203	32690	LS Plant Biology	10:30 AM	TR	LL129	28	90	62	3.0	WSU	Harley, Suzanne
BTNY	1303	32691	LS Plants in Human Affairs	10:30 AM	MWF	LL129	21	90	69	3.0	WSU	Deckert, Ron
ASTR	1040	33353	PS/SI Elementary Astronomy	11:30 AM	MWF	LL129	63	88	25	3.0	WSU	Armstrong, John
PHYS	1040	33354	PS/SI Elementary Astronomy	11:30 AM	MWF	LL129	0	0	0	3.0	WSU	Armstrong, John
BTNY	2600	33050	Laboratory Safety	12:30 PM	W	LL129	12	20	8	1.0	WSU	Wachocki, Barbara
CHEM	2600	34562	Laboratory Safety	12:30 PM	W	LL129	7	15	8	1.0	WSU	Wachocki, Barbara
GEO	2600	31672	Laboratory Safety	12:30 PM	W	LL129	3	20	17	1.0	WSU	Wachocki, Barbara
MICR	2600	32269	Laboratory Safety	12:30 PM	W	LL129	12	20	8	1.0	WSU	Wachocki, Barbara
PHYS	2600	33377	Laboratory Safety	12:30 PM	W	LL129	5	20	15	1.0	WSU	Sohl, John
BTNY	1403	32717	LS Environment Appreciation	05:30 PM	T	LL129	50	88	38	3.0	WSU	Wachocki, Barbara
ZOOL	1010	31689	LS Animal Biology	08:30 AM	MWF	LL130	48	100	52	3.0	WSU	Okazaki, Robert
ZOOL	1020	31693	LS Human Biology	09:00 AM	TR	LL130	82	100	18	3.0	WSU	Berthelemy, Nicole
ZOOL	1020	31694	LS Human Biology	09:30 AM	MWF	LL130	97	100	3	3.0	WSU	Chung, Brian
ZOOL	1110	31698	SI Principles of Zoology I	10:30 AM	MWF	LL130	84	90	6	4.0	WSU	Okazaki, Robert
ZOOL	1120	31709	SI Principles of Zoology II	11:30 AM	MWF	LL130	51	75	24	4.0	WSU	Hoagstrom, Christoph
ZOOL	4900	32243	Advanced Human Anatomy III	01:30 PM	M	LL130	2	0	(2)	2.0	WSU	Chung, Brian
ZOOL	4900	32242	Advanced Human Anatomy II	01:30 PM	M	LL130	9	0	(9)	2.0	WSU	Chung, Brian
ZOOL	4900	32244	Advanced Human Anatomy IV	01:30 PM	M	LL130	0	0	0	2.0	WSU	Chung, Brian
ZOOL	4900	32245	Advanced Human Anatomy V	01:30 PM	M	LL130	0	0	0	2.0	WSU	Chung, Brian
ZOOL	4900	32246	Advanced Human Anatomy VI	01:30 PM	M	LL130	2	0	(2)	2.0	WSU	Chung, Brian
ZOOL	4900	32241	Advanced Human Anatomy I	01:30 PM	M	LL130	11	0	(11)	2.0	WSU	Chung, Brian
ASTR	1040	33355	PS/SI Elementary Astronomy	09:00 AM	TR	LL203	49	60	11	3.0	WSU	Sohl, John
PHYS	1040	33356	PS/SI Elementary Astronomy	09:00 AM	TR	LL203	0	0	0	3.0	WSU	Sohl, John
ASTR	1040	33357	PS/SI Elementary Astronomy	10:30 AM	TR	LL203	58	60	2	3.0	WSU	Sohl, John
PHYS	1040	33358	PS/SI Elementary Astronomy	10:30 AM	TR	LL203	0	0	0	3.0	WSU	Sohl, John
ASTR	1040	33359	PS/SI Elementary Astronomy	05:30 PM	T	LL203	43	60	17	3.0	WSU	Jennings, Cristine
PHYS	1040	33360	PS/SI Elementary Astronomy	05:30 PM	T	LL203	0	0	0	3.0	WSU	Jennings, Cristine

## N. LIND LECTURE HALL CAPACITY AND USAGE

**College of Science**

<u>SUBJ</u>	<u>NUM</u>	<u>CRN</u>	<u>COURSE TITLE</u>	<u>TIME</u>	<u>DAY</u>	<u>LOC'N</u>	<u>ENRL</u>	<u>MAX</u>	<u>AVAIL</u>	<u>HRS</u>	<u>CMP</u>	<u>INSTRUCTOR</u>
MATH	1060	33749	Trigonometry	09:00 AM	TR	LL222	35	38	3	3.0	WSU	Salt, Jeffrey
MATH	1030	33726	QL Contemporary Math	11:30 AM	MWF	LL222	34	38	4	3.0	WSU	Hunt, Corinne
MATH	1060	33753	Trigonometry	12:30 PM	MWF	LL222	31	38	7	3.0	WSU	Yonkee, Mary
MATH	1050	33741	QL College Algebra	05:30 PM	MW	LL222	36	38	2	4.0	WSU	Ellis, Maria
MATH	1050	33746	QL College Algebra	05:30 PM	TR	LL222	37	38	1	4.0	WSU	Hollopeter, W
MATH	1080	33756	QL Pre-calculus	08:30 AM	MTWRF	LL223	37	38	1	5.0	WSU	Quesnell, Carrie
MATH	1050	33733	QL College Algebra	09:30 AM	MTWF	LL223	36	38	2	4.0	WSU	Foster, James
MATH	1050	33736	QL College Algebra	10:30 AM	MTWR	LL223	36	38	2	4.0	WSU	Hunt, Corinne
MATH	1080	33758	QL Pre-calculus	11:30 AM	MTWRF	LL223	37	38	1	5.0	WSU	Hansen, Mary
MATH	1030	34675	QL Contemporary Math	05:30 PM	TR	LL223	9	36	27	3.0	WSU	Ellis, Maria
MICR	1153	31668	LS Elementary Public Health	08:30 AM	MWF	LL229	14	35	21	3.0	WSU	Culumber, Michele
MICR	3154	32554	Microbial Ecology	09:00 AM	TR	LL229	25	24	(1)	4.0	WSU	Culumber, Michele
PHYS	2090	33369	Environmental Phs Energy&power	10:30 AM	TR	LL230	5	20	15	3.0	WSU	Palen, Stacy
ZOOL	2100L	31872	Lab	08:30 AM	T	LL3	19	22	3	0.0	WSU	Chung, Brian
ZOOL	2100L	31878	Lab	08:30 AM	W	LL3	21	22	1	0.0	WSU	Berthelemy, Nicole
ZOOL	2100L	31883	Lab	08:30 AM	R	LL3	17	22	5	0.0	WSU	Chung, Brian
ZOOL	2100L	31874	Lab	10:30 AM	T	LL3	12	22	10	0.0	WSU	Berthelemy, Nicole
ZOOL	2100L	31879	Lab	10:30 AM	W	LL3	21	22	1	0.0	WSU	Chung, Brian
ZOOL	2100L	31884	Lab	10:30 AM	R	LL3	19	22	3	0.0	WSU	Berthelemy, Nicole
ZOOL	2100L	31875	Lab	12:30 PM	T	LL3	18	22	4	0.0	WSU	Chung, Brian
ZOOL	2100L	31880	Lab	12:30 PM	W	LL3	21	22	1	0.0	WSU	Chung, Brian
ZOOL	2100L	31885	Lab	12:30 PM	R	LL3	16	22	6	0.0	WSU	Berthelemy, Nicole
ZOOL	2100L	31876	Lab	02:30 PM	T	LL3	19	22	3	0.0	WSU	Chung, Brian
ZOOL	2100L	31887	Lab	02:30 PM	R	LL3	13	22	9	0.0	WSU	Berthelemy, Nicole
ZOOL	2100L	31881	Lab	02:30 PM	W	LL3	19	22	3	0.0	WSU	Chung, Brian
ZOOL	2100L	31877	Lab	04:30 PM	T	LL3	16	22	6	0.0	WSU	Chung, Brian
ZOOL	2100L	31882	Lab	04:30 PM	W	LL3	14	22	8	0.0	WSU	Berthelemy, Nicole
ZOOL	2100L	31888	Lab	04:30 PM	R	LL3	6	22	16	0.0	WSU	Berthelemy, Nicole

	<b>Botany</b>	<b>Chemistry</b>	<b>Geo</b>	<b>Math</b>	<b>Micro</b>	<b>Physics</b>	<b>Zoology</b>		

**LIND LECTURE HALL ROOM USAGE**

Rm. #	Room Type	Lind Lecture Hall Rooms - Hours of Use by Department, Spring 2011							Total	Listed "Owners"/Users
121	Lecture, 105-Seat							33	33	Physics
122	Lecture, 64-Seat		19						19	Chemistry
123	Lecture, 105-Seat		19						19	Chemistry, Zoology
124	Lecture, 88-Seat			16					16	Geosciences
125	Lecture, 129-Seat		3					7	10	Chemistry, Physics, Zoology
126	Lecture, 161-Seat	24	5			1		4	34	Botany, Chemistry, Math, Micro, Zoology
127	Lecture, 120-Seat					20			20	Microbiology
128	Lecture, 64-Seat					13			13	Geosciences, Microbiology
129	Lecture, 88-Seat	19	1	1		1	7		29	Botany
130	Lecture, 105-Seat							20	20	Zoology
221	Classroom, 36-Seat								0	Math, Physics, Zoology
222	Classroom, 36-Seat				12				12	Chemistry, Math
223	Classroom, 40-Seat				20				20	Math
228	Classroom, 36-Seat								0	Botany
229	Classroom, 36-Seat					5			5	Microbiology
230	Classroom, 36-Seat						1		1	Ctr. MSE, Zoology
		<b>43</b>	<b>47</b>	<b>17</b>	<b>32</b>	<b>40</b>	<b>41</b>	<b>31</b>		

Denotes room is included in department's Shared Classroom / Lecture NSF

**NOTE: REQUIRES MORE DATA**  
(Figures include only 1 hour for each scheduled class time)



**Fall 2009 and Spring 2010 Budget-Related Enrollment  
 Upper Division and Lower Division Student Credit Hours (SCH)**

	PB	LD	UD	Total	% LD	% UD
Botany		3,733	271	4,004	93.23%	6.77%
Chemistry		12,487	706	13,193	94.65%	5.35%
Geosciences		3,636	554	4,190	86.78%	13.22%
Mathematics	6	23,214	663	23,877	97.22%	2.78%
Microbiology		4,690	1,617	6,307	74.36%	25.64%
Physics		6,341	303	6,644	95.44%	4.56%
Zoology		7,058	1,524	8,582	82.24%	17.76%
<b>Total</b>	<b>6</b>	<b>61,159</b>	<b>5,638</b>	<b>66,797</b>	<b>91.56%</b>	<b>8.44%</b>

PB = Post-Baccalaureate (5000/6000-level courses)

LD = Lower Division (1000 and 2000-level courses)

UD = Upper Division (3000 and 4000-level courses)

### WSU College of Science Undergraduate Student Credit Hours

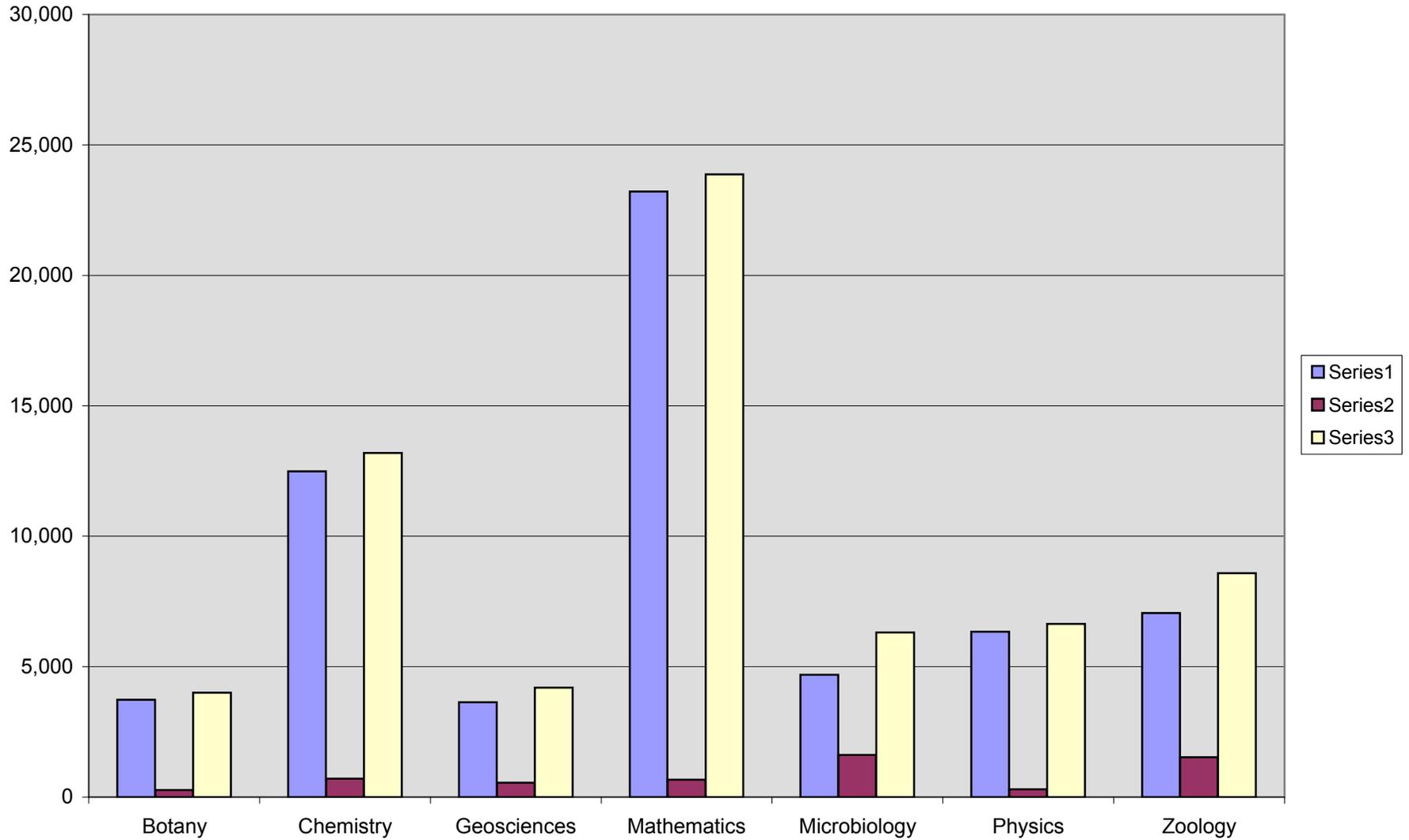


TABLE 14  
TOTAL ENROLLMENT BY MAJOR  
FALL 2004 THROUGH 2010

Banner Code	College, Department, Program, Area	Degree	2004	2005	2006	2007	2008	2009	2010
COLLEGE OF APPLIED SCIENCE & TECHNOLOGY									
COMPUTER SCIENCE									
8019	Computer Science/System Integration	BA	0	1	0	0	1	1	0
8019	Computer Science/System Integration	BS	55	37	30	24	12	3	1
8021	Computer Science	AS	373	0	2	0	0	0	0
8021	Computer Science	BA						16	12
8021	Computer Science/Software Engg	BS	24	29	55	104	146	167	188
8022	Computer Science/Customized	BA						2	6
8022	Computer Science/Customized	BS	20	19	17	22	38	34	50
8040	Network Security & Administration	BA						4	5
8040	Network Security & Administration	BS	0	1	7	34	65	60	45
8023	Computer Science	BS	0	2	6	16	0	0	0
8023	Computer Science	AAS	93	472	376	268	273	257	271
8053	Computer and Network Security	BS						14	42
8053	Computer and Network Security	BA						6	10
8054	Network Technologies	IC						3	7
2048, 8049	Game Developing	IC					5	23	30
	Microsoft Applicant	ND	0	0	0	0	0	0	0
	Computer Science Applicant	ND	14	0	0	0	0	0	0
	Total		579	561	493	468	540	590	667
COMPUTER & ELECTRONICS ENGG TECH									
8032	Electronics Engineering Technology	BS	38	57	65	80	91	85	63
8032	Electronics Engineering Technology	AAS	140	136	108	81	57	54	35
8034	Computer Engineering Technology	AAS	88	82	49	27	24	31	28
8034	Computer Engineering Technology	BS	13	15	21	52	58	68	56
	Computer & Electronic Engg Applicant	ND	0	0	0	0	0	0	0
	Electronic Engg Tech Applicant	ND	0	0	0	0	0	0	0
	Total		279	290	243	240	230	238	182
MANUFACTURING & MECH ENGG TECH									
	CNC Machinist	IC	0	0	0	0	0		
8035	Construction Management Technology	AAS	61	64	55	29	26	15	20
8035	Construction Management Technology	BS	140	179	205	267	256	280	272
	Construction Management Technology Applicant	ND	0	0	0	0	0	0	0
8036	Design Graphics Engineering Technology	AAS	87	70	58	43	20	14	23
8036	Design Graphics Engineering Technology	BS	62	70	63	84	103	118	120
	Design Graphics Applicant Applicant	ND	4	0	0	0	0	0	0
	Design Graphics/Architectural Structural Draft	AAS	2	0	0	0	0	0	0
	Machine Tool Technology	AAS	0	0	0	0	0	0	0
8002	Mechanical Engineering Technology	AAS	66	55	44	26	19	23	23
8002	Mechanical Engineering Technology	BS	54	67	70	108	133	166	168
	Mechanical Engineering Technology Applicant	ND	4	0	0	0	0	0	0
8037	Manufacturing Engineering Technology	AAS	49	49	34	20	13	11	15
8037	Manufacturing Engineering Technology	BS	76	87	82	74	76	79	77

8039	Welding Engineering Technology	AAS			1	0	0	0	0
8039	Welding Engineering Technology	BS	0	4	12	18	18	31	36
	Mfg Engg Technology Applicant	ND	3	0	0	0	0	0	0
	Applied Technology	AAS	1	0	0	0	0	0	0
8042	Pre-Engineering	BS							0
8042	Pre-Engineering	AS							0
8042	Pre-Engineering Applicant	ND							0
8042	Pre-Engineering	APE	100	17	84	156	189	205	200
	Total		709	662	708	825	853	942	954
SALES AND SERVICE TECHNOLOGY									
8000	Automotive Service Technology ATEP	AAS	28	27	25	35	55	7	4
8000	Automotive Service Technology ATEP	BS			19	0	17	0	0
	Auto Service Technology Applicant	ND	13	0	0	0	0	0	0
8038	Automotive Service Technology PACT	AAS	11	7	8	19	30	27	5
8038	Automotive Service Technology PACT	BS			5	0	0	0	0
8001	Automotive Service Technology ASEP	AAS	33	27	24	31	31	21	24
8001	Automotive Service Technology ASEP	BS			6	0	0	0	0
8003	Automotive Service Technology T-TEN	AAS	24	18	21	29	31	37	42
8004	Automotive Technology	AAS			12	1	0	0	0
8004	Automotive Technology	BS	76	93	33	68	55	26	8
8005	Automotive Service Technology CAP	AAS	20	14	16	10	5	0	0
8006	Automotive Service Technology BSEP	AAS	18	10	3	7	1	1	0
	Auto Technology Applicant	ND	0	0	0	0	0	0	0
	Fashion Merchandising	AAS	1	0	0	0	0	0	0
	Fashion Merchandising Applicant	ND	0	0	0	0	0	0	0
8026	Interior Design Technology	BS	0	28	16	3	0	0	0
8026	Interior Design Technology	AAS	51	47	33	19	15	11	19
8008	Heavy Duty Truck Technology	AAS	48	44	3	7	8	4	9
	Interior Design Applicant	ND	1	0	0	0	0	0	0
8025	Sales & Merchandising	AAS	44	42	39	25	18	17	13
8027	Technical Sales	BA	0	35	5	0	97	104	88
8027	Technical Sales	BS	322	321	293	337	329	283	280
8031	Interior Design Technical Sales	BA	0	1	4	4	22	19	10
8031	Interior Design Technical Sales	BS	55	50	59	86	74	77	80
	Technical Sales/Retailing Applicant	ND	5	0	0	0	0	0	0
8043	Independent Shop ATEP Applicant	ND							0
8043	Independent Shop ATEP	AAS						28	49
8044	Chrysler CAP	AAS						24	15
8045	Collision Repair	AAS						11	13
8047	Apprenticeship	AAS						5	3
8050	Field Service Operations	BS						27	26
8051	Collision Repair & Insurance M	BS						1	6
8052	Advanced Vehicle Systems	BS						16	19
	Total		750	764	624	681	788	746	713
TELECOMMUNICATIONS & BUSINESS ED									
	Administrative Systems	BS	2	0	0	0	0	0	0
8015,47	Business System Technologies	BS							0
8015,47	Business System Technologies	BA							0
8015,47	Business System Technologies	AAS						9	0
8015,48	Business System Technologies	BA						12	16
8015,48	Business System Technologies	AAS							15

8015.48	Business System Technologies	BS	8	6	13	22	34	25	28
8011	Business System Technologies	AAS	19	17	11	16	9	5	0
8018	Business Education Composite Teaching	BA						2	3
8018	Business Education Composite Teaching	BS	21	24	17	17	21	18	24
	Business Education Applicant	ND	0	0	0	0	0	0	0
	Business Education/Admin Systems	BS	1	0	0	0	0	0	0
	Office Systems Support Applicant	ND	0	0	0	0	0	0	0
8010	Telecommunications	IC	0	1	1	0	0	0	0
8010	Telecommunications	AAS	28	35	29	19	16	11	18
8013	Telecommunications Administration	BA	0	4	4	1	14	11	8
8013	Telecommunications Administration	BS	57	48	54	62	63	60	63
	Telecommunications Applicant	ND	0	0	0	0	0	0	0
8055	Plastic & Composite Engr Tech								8
8057	Electronics Engineering								84
	Total		136	135	129	137	157	153	267
COLLEGE OF APPLIED SCIENCE & TECHNOLOGY TOTAL			2,453	2,412	2,197	2,351	2,568	2,669	2,783
COLLEGE OF ARTS & HUMANITIES									
COMMUNICATION									
3012.52	Electronic Media	BS	56	38	8	0	19	41	51
3012.52	Electronic Media	BA	0	2	35	44	33	18	24
3051	Civic Advocacy	BS							7
3051	Civic Advocacy	BA							3
3051	Civic Advocacy				2	28	1	6	0
	Communication Applicant	ND	101	0	0	0	92	82	0
3013	Journalism	BA	0	2	33	52	5	5	23
3013	Journalism	BS	28	33	0	0	10	5	45
3018	Journalism Teaching	BA						3	3
3018	Journalism Teaching	BS	1	1	2	3	2	2	6
3014	Communication Studies	BA	0	3	31	30	2	1	1
3014	Communication Studies	BS	0	37	0	0	4	1	8
3016	Communication Studies Teaching	BA						2	2
3016	Communication Studies Teaching	BS	0	2	3	13	3	2	5
3053-5	Oral Communication	BA						41	48
3053-5	Oral Communication	BS	18	0	7	68	107	64	91
	Oral Communication Teaching	BS	1	0	0	0	0	0	0
3015	Public Relations	BA	0	9	15	0	3	1	2
3015	Public Relations	BS	87	76	85	61	11	7	21
3061	Visual Communication	BFA							41
3061	Visual Communication							14	0
	Total		292	203	221	299	292	295	381
COMPOSITE TEACHING MAJORS									
3019	Art Composition Teaching	BA	0	6	24	40	13	8	2
3019	Art Composition Teaching	BS	17	19	0	0	16	9	4
	Communication/Theatre Arts/Journalism	BS	0	0	0	0	0	0	0
	English/Communication/Oral	BS	0	0	0	0	0	0	0
	Music/Choral	BS	1	0	0	0	0	0	0
	Music/Instrumental/Choral	BS	3	0	0	0	0	0	0
	Music/Theatre	BS	0	0	0	0	0	0	0

	Theatre Arts/Communication/Teaching/Oral	BS	0	0	0	0	0	0	0
	Total		21	25	24	40	29	17	6
ENGLISH LANGUAGES AND LITERATURES									
3022	English	BA	4	36	4	0	79	112	105
3022	English	BS	137	170	176	172	92	82	74
3023	English Teaching	BA	0	23	92	111	63	68	81
3023	English Teaching	BS	76	66	0	0	57	70	66
3056	MENG	M			34	49	41	46	49
3020	Creative Writing	BA	0	23	2	1	80	87	91
3020	Creative Writing	BS	0	44	66	76	29	32	37
3024	Professional & Technical Writing	BA	0	8	0	3	8	10	10
3024	Professional & Technical Writing	BS	26	16	19	25	19	15	12
3021	English as a Second Language (ESL)	ND	55	0	1	0	0	0	0
	English Applicant	ND	75	0	0	0	0	0	0
	Total		373	386	394	437	468	522	525
FOREIGN LANGUAGES									
3026	French	BA	5	3	7	7	5	5	6
3027	French Teaching	BA	6	3	1	1	0	0	1
	French Applicant	ND	1	0	0	0	0	0	0
3033	Foreign Language Commercial/French	BA	3	0	1	2	2	1	1
3028	German	BA	3	6	6	6	12	8	11
3029	German Teaching	BA	4	2	2	1	3	5	6
3034	Foreign Language Commercial/Germany	BA	3	1	3	1	2	6	8
	German Applicant	ND	2	0	0	0	0	0	0
3030	Spanish	BA	38	62	38	48	48	53	51
3031	Spanish Teaching	BA	21	25	18	25	26	27	25
3035	Foreign Language Commercial/Spanish	BA	17	13	14	14	16	21	14
	Spanish Applicant	ND	13	0	0	0	0	0	0
	Total		116	115	90	105	114	126	123
PERFORMING ARTS									
3037	Music	BA						42	44
3037	Music	BS	2	48	26	48	47	0	0
	Music Keyboard	BS	0	0	0	0	0	0	0
3038	Keyboard Performance	BM	3	4	5	6	7	7	12
3039	Vocal Performance	BM	7	7	14	12	17	11	20
3040	Instrumental Performance	BM	16	19	18	28	19	22	25
3040	Instrumental Performance	BS	0	1	0	0	0	0	0
3041	Keyboard Pedagogy	BM	5	9	8	10	8	4	3
3042	Vocal Pedagogy	BM	8	6	9	9	8	10	17
3043	Music Education/Choral	BME	20	27	24	23	26	34	36
3044	Music Education/Instrumental	BME	34	45	37	45	30	45	45
3044	Music Education/Instrumental	BS	0	1	0	0	1	0	0
	Music	BA	4	0	0	0	0	0	0
	Music Applicant	ND	75	0	0	0	0	0	0
3046	Theatre Arts	BA	33	36	45	35	30	34	45
3046	Theatre Arts	BS	0	4	0	0	14	15	22
3047	Theatre Arts Teaching	BA	0	11	17	15	11	10	14
3047	Theatre Arts Teaching	BS	14	2	0	0	5	8	7
3049	Musical Theatre	BA	0	29	45	51	41	32	49
3049	Musical Theatre	BS	30	22	0	0	13	16	18
	Theatre Arts Applicant	ND	31	0	0	0	13	22	0

3058	Dance Education	BA						7	8
3058	Dance Education	BS						2	4
3045	Dance	BA	17	25	38	21	29	20	13
	Dance	ND	4	0	0	0	0	0	0
		Total	303	296	286	303	319	341	382
VISUAL ARTS									
3001	General	BS	5	68	0	0	62	81	111
3001	General	BA	0	32	130	161	93	147	191
	Teaching	BS	0	0	0	0	0	0	0
3003	Art	BS						1	0
3005	Two Dimensional	BA	0	9	0	0	7	9	6
3005	Two Dimensional	BS	28	19	0	0	3	1	1
3005	Two Dimensional	BFA	1	9	27	26	13	19	13
3006	Three Dimensional	BA	0	2	0	0	5	8	1
3006	Three Dimensional	BS	10	8	0	0	3	2	2
3006	Three Dimensional	BFA	2	0	15	15	5	3	2
3008	Visual Communications Design	BA	0	19	129	122	29	22	14
3008	Visual Communications Design	BFA	1	10	0	0	23	28	2
3008	Visual Communications Design	BS	68	59	0	0	28	17	6
3002	Photography	BFA	1	7	0	0	21	27	20
3002	Photography	BS	27	42	0	0	14	16	8
3002	Photography	BA	0	15	63	49	29	31	18
	Photography Applicant	ND	24	0	0	0	0	0	0
	Art Applicant	ND	73	0	0	0	0	0	0
3009	Visual Communications Illustration	BA						3	3
3009	Visual Communications Illustration	BS	9	7	12	15	1	1	0
3009	Visual Communications Illustration	BFA	0	2	0	0	10	4	2
3010	Visual Communications	BS	0	34	0	0	0	0	0
3055	Public Relations & Advertising	BA							1
3062	Art Education	BA						20	42
3062	Art Education	BFA						7	10
3062	Art Education	BS						4	13
		Total	249	342	376	388	346	451	466
OTHER INSTRUCTION									
	General Studies	ND	0	0	0	0	0	0	0
COLLEGE OF ARTS & HUMANITIES TOTAL			1,354	1,367	1,391	1,572	1,568	1,752	1,883
COLLEGE OF BUSINESS & ECONOMICS									
ACCOUNTANCY									
4000	Professional Accountancy	MPA	47	1	0	0	29	28	42
4002	Audit/Financial	MPA	0	10	4	6	1	0	0
4003	Tax	MPA	0	14	16	14	34	33	9
4004	Cost Systems	MPA	0	2	0	0	0	0	0
4005	General	MPA	0	19	30	32	8	4	0
	Professional Accountancy Applicant	ND	2	0	0	0	0	0	0
4001	Accounting	BA	0	47	6	3	139	169	156
4001	Accounting	BS	272	455	458	458	343	363	380
	Accounting Applicant	ND	178	0	0	1	0	0	0
		Total	499	548	514	514	554	597	587

BUSINESS ADMINISTRATION									
4026	Business Administration	MS	104	117	83	189	171	169	175
	Business Administration Intended	ND	2	0	0	0	0	0	0
4011	Business Administration	BA	0	66	6	0	207	260	249
4011	Business Administration	BS	116	194	360	506	370	384	394
4006	Finance	BA	0	13	1	0	43	48	42
4006	Finance	BS	109	161	162	175	119	98	105
	Finance Applicant	ND	98	0	0	0	0	0	0
4010	Entrepreneurship	IC			5	18	22	20	22
4007	Management	BA	0	26	0	0	61	62	63
4007	Management	BS	104	297	267	224	135	115	94
4009	Human Resource Management	BA	0	8	1	0	19	22	19
4009	Human Resource Management	BS	40	55	53	64	58	63	43
	Management Applicant	ND	299	0	0	0	0	0	0
4008	Marketing	BA	0	32	3	0	69	59	55
4008	Marketing	BS	99	164	169	207	116	111	102
	Marketing Applicant	ND	107	0	0	0	0	0	0
4012	Logistics and Operations Management	BA	0	4	0	0	1	1	0
4012	Logistics and Operations Management	BS	66	57	29	14	2	2	0
	Logistics Management	BS	0	0	0	0	0	0	0
	Logistics Applicant	ND	8	0	0	0	0	0	0
4032	Supply Chain Management	BA	0	1	1	0	10	8	10
4032	Supply Chain Management	BS	0	4	24	55	55	53	59
		Total	1,152	1,199	1,164	1,452	1,458	1,475	1,432
ECONOMICS									
4017	Business Economics	BA	0	4	0	0	16	7	10
4017	Business Economics	BS	19	25	31	33	27	19	16
4018	General Economics	BA	0	8	25	40	15	13	13
4018	General Economics	BS	4	14	0	0	15	20	11
4020	Quantitative Economics	BA	0	1	5	7	3	2	1
4020	Quantitative Economics	BS	5	1	0	0	3	5	6
4021	Economics/Legal Studies	BA						2	5
4021	Economics/Legal Studies Applicant	BS	11	9	3	6	8	6	4
4023	International Economics	BA	5	6	9	9	10	25	62
4023	International Economics	BS						7	14
	General Business & Economics	BS	0	0	0	3	0	0	0
	Business & Economics Applicant	ND	15	0	0	0	0	0	0
4024.25	International Business	IC	0	0	0	0	3	7	4
		Total	59	68	73	98	100	113	146
INFORMATION SYSTEMS & TECHNOLOGIES									
4015	Information Systems & Technologies	BS	69	0	1	1	2	0	0
4013	Information Systems & Technologies	AA	0	3	1	1	4	5	5
4013	Information Systems & Technologies	AS	58	65	63	33	15	13	19
4013	Information Systems & Technologies	BA					1	5	15
4013	Information Systems & Technologies	BS					24	43	61
4027	Information Security	BA						1	1
4027	Information Security	BS	0	47	24	28	49	36	20
4028	System Development	BA	0	1	0	0	2	1	0
4028	System Development	BS	0	3	8	18	12	10	5
	Information Technology Sales	AS	0	0	0	0	0	0	0
4030	Information Assurance	IC	0	2	1	0	0	0	1

	Software Developer	IC	0	0	0	0	0	0	0
	Information Systems & Technologies Applicant	ND	21	0	0	0	0	0	0
	Total		148	121	98	81	109	114	127
COLLEGE OF BUSINESS & ECONOMICS TOTAL			1,858	1,936	1,849	2,145	2,221	2,299	2,292
COLLEGE OF EDUCATION									
CHILD & FAMILY STUDIES									
5000	Early Childhood	BA	0	16	0	0	29	25	32
5000	Early Childhood	BS	28	149	77	77	39	40	36
5000	Early Childhood	AAS	26	42	20	33	26	25	25
5002	Early Childhood Education	BA	0	9	5	0	12	6	20
5002	Early Childhood Education	BS	57	89	110	117	40	46	61
5003	Family Studies	BA	0	9	5	0	20	18	15
5003	Family Studies	BS	106	140	123	118	78	79	111
	Family Relations	BS	0	0	0	0	0	0	0
	Child Development Applicant	ND	2	0	0	0	0	0	0
	Early Childhood Education Applicant	ND	174	0	0	0	73	52	0
	Family Studies/Family Relations Applicant	ND	22	0	0	0	18	19	0
	Total		415	454	340	345	335	310	300
HEALTH PROMOTION & HUMAN PERFORMANCE									
5017	Physical Education	BA					6	6	
5017	Physical Education	BS	19	0	6	14	23	14	22
5012	Physical Education Teaching	BA	0	12	51	46	10	16	11
5012	Physical Education Teaching	BS	46	56	0	0	33	39	49
5013	Health Promotion	BS	38	48	46	34	60	77	88
5011	Human Performance	BA	0	4	0	0	7	6	4
5011	Human Performance	BS	66	42	23	32	18	8	6
5020,36	Athletic Training	BA					49	0	
5020,37	Athletic Training	BS	38	95	92	126	76	71	231
5026	Athletic Training (Scientific)	BS			1	9	62	52	12
5027	Athletic Training (Clinical)	BS			2	24	53	45	9
5031	Athletic Training	MS					7	16	19
5021	Human Performance Management/Wellness	BA	0	1	0	0	11	10	8
5021	Human Performance Management/Wellness	BS	0	72	50	39	57	69	92
5022	Human Performance Management/Sports & Rec	BA	0	2	0	0	6	12	10
5022	Human Performance Management/Sports & Rec	BS	0	8	14	22	22	24	23
	Health Promotion Applicant	ND	6	0	0	0	0	0	0
	Lifestyle Management Applicant	ND	5	0	0	0	0	0	0
	Physical Education Applicant	ND	43	0	0	0	0	0	0
	Athletic Training Applicant	ND	16	0	0	0	22	0	0
	Total		277	340	285	346	467	514	590
TEACHER EDUCATION									
5005	Elementary	BA	0	27	8	0	42	47	181
5005	Elementary	BS	181	354	404	457	162	144	362
5005	Elementary	AP							2
5008	Secondary Certification	IC	11	40	64	88	6	4	61
5007	Special Education	BA					1	2	41
5007	Special Education	BS					5	20	80
5009	English as a Second Language				4	3	3	1	1

	Elementary Education Applicant	BS	217	0	0	0	353	355	0
	Secondary Education Applicant	BS	2	0	0	0	167	79	0
	Special Education Applicant	ND						76	0
5010	Composite Elementary & Special Education	BA	0	2	40	82	4	2	7
5010	Composite Elementary & Special Education	BS	36	34	0	0	20	15	17
	Composite Elementary & Special Education	ND						50	0
	Masters of Education Applicant	ND	18	0	0	0	0	0	0
5006	Curriculum and Instruction	MED	154	199	170	137	139	184	173
5032	Secondary	MED	1	0	0	0	0	3	2
	Total		620	656	690	767	902	982	927
General Studies									
		ND	0	0	0	2	0	0	0
COLLEGE OF EDUCATION TOTAL			1,312	1,450	1,315	1,460	1,704	1,806	1,817
COLLEGE OF HEALTH PROFESSIONS									
CLINICAL LABORATORY SCIENCES									
2000	Clinical Laboratory Sciences	BA						1	3
2000	Clinical Laboratory Sciences	BS	74	161	158	157	142	171	178
	Clinical Laboratory Sciences Applicant	ND						53	0
2001	Clinical Laboratory Sciences	AAS	81	107	133	109	86	88	234
	Clinical Laboratory Sciences	AA							2
	Clinical Laboratory Sciences	AP							1
	Clinical Lab Sci/Computer Info Systems	BS	0	0	0	0	0	0	0
	Clinical Lab Sci Applicant	ND	1	0	0	0	0	122	0
2001	Clinical Lab Sci AAS Applicant	ND	75	0	0	0	50	0	0
2000	Clinical Lab Sci Applicant	ND	2	0	0	0	46	0	0
2026	Clinical Lab Sci/Pre-Prof	BS			88	17	7	2	22
2027	EMT Paramedic	IC							7
	Total		233	268	379	283	331	437	447
DENTAL HYGIENE									
2002	Dental Hygiene	BA						1	16
2002	Dental Hygiene	BS	11	91	97	154	51	70	112
2002	Dental Hygiene	AP							3
2002	Dental Hygiene	AS	50	148	139	116	4	8	118
2002	Dental Hygiene BS Applicant	ND	3	0	0	0	92	159	0
2202	Dental Hygiene Applicant	ND	152	0	0	0	105	0	0
	Total		216	239	236	270	252	238	249
EMERGENCY CARE & RESCUE									
2003	Emergency Care & Rescue	AAS	70	78	78	76	10	7	70
2003	Emergency Care & Rescue	AP							2
2003	Emergency Care & Rescue Applicant	ND	20	0	0	0	50	56	0
2003	EMT Paramedic	IC	1	7	26	36	25	31	56
	Total		91	85	104	112	85	94	128
HEALTH ADMINISTRATIVE SERVICES									
2004	Health Administrative Services	IC						3	0
2004	Health Administrative Services	BA						8	18
2004	Health Administrative Services	AP							1
2004	Health Administrative Services	BS	71	98	99	115	66	54	96
2008	Health Promotion	BA						2	11

2008	Health Promotion	BS	25	29	39	60	19	13	53
2004	Health Administrative Services	IC	4	5	5	0	2		0
2004-8	Health Administrative Services Applicant	ND	31	0	0	0	80	114	0
2006	Health Information Management	BS	38	41	41	55	21	24	51
2006	Health Information Management	BA							7
2006	Health Information Management	IC							1
2007	Health Care Coding Classification	IC	56	28	21	20	25	17	23
2005	Long-Term Care Administration	BS	18	18	17	12	7	7	9
2005	Long-Term Care Administration	BA							1
2029	Health Sciences	AS			45	103	124	139	164
2029	Health Sciences	BS					11	1	0
2030	Masters of Health Administration	M			30	42	39	59	56
2036	DMS/Vascular								3
2037	Radiologic Sciences								21
		Total	243	219	297	407	394	441	515
HEALTH INFORMATION TECHNOLOGY									
2025	Health Information Technology	AAS	59	64	74	50	22	24	43
2025	Medical Record Technology Applicant	ND	17	0	0	0	23	27	0
		Total	76	64	74	50	45	51	43
NURSING									
2031	Master of Nursing	MSN					15	39	45
2031	Master of Nursing	ND					8	3	0
2009	Nursing	BS	140	557	319	430	251	233	471
2009	Nursing	AS	296	401			433	399	910
2009	Nursing	AP							7
2009	Nursing	AAS	169	262	946	945	1	33	354
2009	Nursing	IC	13	29	46	38	1	9	53
2009	Nursing	BA						3	56
	Nursing AS Applicant	ND	8	0	4	0	317	422	0
	Nursing IC Applicant	ND	0	0	0	0	28	43	0
	Nursing BA Applicant	ND						43	0
	Nursing BS Applicant	ND	13	0	0	0	142	185	0
	Nursing AAS Applicant	ND	566	0	0	0	307	338	0
	Nursing Applicant	ND	59	0	0	0	0	0	0
		Total	1,264	1,249	1,315	1,413	1,503	1,750	1,896
CO-OP NURSING									
	Nursing Southern Utah U/Dixie College	AS	1	0	0	0	0	0	0
	Nursing Utah State University	AS	0	0	0	0	0	0	0
		Total	1	0	0	0	0	0	0
RADIOLOGIC SCIENCES									
2010	Diagnostic Medical Sonography/Med	BA						7	4
2010	Diagnostic Medical Sonography/Med	BS						56	63
2012	Diagnostic Medical Sonography/Med	BS	21	18	28	48	55	26	18
2012	Diagnostic Medical Sonography/Cardiac	BA						2	2
	Diagnostic Medical Sonography/Cardiac	BS	11	10	12	33	30	0	0
2014	Diagnostic Medical Sonography Applicant	BA						1	1
2014	Diagnostic Medical Sonography Applicant	BS						21	17
2014	Diagnostic Medical Sonography Applicant	ND	4	0	0	0	0	0	0
2011	Magnetic Resonance Imaging	BS	2	15	18	17	22	28	18
2011	Magnetic Resonance Imaging	BA						1	1
2011	Magnetic Resonance Imaging	IC							2

2021	Nuclear Medicine	BA							1	1
2021	Nuclear Medicine	BS	20	14	11	16	30	5	7	
2015	Radiation Therapy Advanced	BA							1	0
2015	Radiation Therapy Advanced	BS	212	0	0	0	3	9	6	
2016	Computed Tomography	BS			6	8	4	60	43	
2017	Advanced Radiologic Sciences	BA						2	0	
2017	Advanced Radiologic Sciences	BS	0	15	24	72	58	43	2	
2018	Advanced Radiologic Sciences Practitioner Asst	BA							5	6
2018	Advanced Radiologic Sciences Practitioner Asst	BS	0	158	130	113	99	41	34	
2019,34	Radiation Therapy	BS	0	15	31	39	43	66	22	
2019,34	Radiation Therapy	BA								3
2020,35	Advanced Radiologic Sciences MRI/CT	BS	0	6	12	18	23	6	73	
2020,35	Advanced Radiologic Sciences MRI/CT	BA								19
2038	Respiratory Therapist									40
2013	Advanced Radiologic Sciences Mammography	BS	0	4	4	6	3	0	0	
2013	Radiography	BS	21	16	1	6	9	2	0	
		AP								3
2013	Radiography	AAS	305	571	463	395	182	197	393	
2013	Radiography Applicant	ND	27	0	0	0	0	175	0	
	Radiography AAS Applicant	ND	209	0	0	0	161		0	
		Total	832	842	740	771	722	755	778	
RESPIRATORY THERAPY										
2022	Respiratory Therapy	BA							1	4
	Respiratory Therapy BA Applicant	ND							9	0
2022	Respiratory Therapy	BS	6	30	32	67	32	27	28	
		AP								1
	Respiratory Therapy BS Applicant	ND	0	0	0	0	34	36	0	
2022	Respiratory Therapy	AAS	46	73	142	93	40	0	36	
	Respiratory Therapy AAS Applicant	ND	5	0	0	0	0	42	0	
2022	Respiratory Therapy	AS	23	76	0	0	5	2	111	
	Respiratory Therapy AS Applicant	ND	51	0	0	0	42	84	0	
	Respiratory Therapy Applicant	ND	6	0	0	0	0	0	0	
		Total	137	179	174	160	153	201	180	
	Health Professions General Studies		0	0	0	5	0	2	0	
COLLEGE OF HEALTH PROFESSIONS TOTAL			3,093	3,145	3,319	3,466	3,485	3,969	4,236	
COLLEGE OF SCIENCE										
BOTANY										
	Botany	BS	34	0	0	3	0	0	0	
6032	Botany Track A	BS	0	40	20	12	18	19	22	
6033	Botany Track B	BS	0	8	10	10	11	18	25	
6034	Botany Track C	BS	0	3	4	6	4	6	5	
6001	Botany Teaching	BS	0	8	0	1	2	2	1	
	Botany Applicant	ND	7	0	0	0	0	0	0	
0001	Pre-Agriculture & Pre-Horticulture	BA								7
0001	Pre-Agriculture & Pre-Horticulture	BS								2
0001	Pre-Agriculture & Pre-Horticulture	ND	3	0	12	0	0	0	0	
0002	Pre-Forestry & Pre-Range	BA								1

0002	Pre-Forestry & Pre-Range	BS							1
0002	Pre-Forestry & Pre-Range	ND	7	0	14	0	0	0	0
		Total	51	59	60	32	35	45	64
	CHEMISTRY								
6005	Chemistry Certified	BS	21	22	21	20	31	33	28
6006	Chemistry	BS	32	121	70	80	111	133	116
6007	Chemistry Teaching	BS	2	2	3	4	9	6	6
6004	Chemical Technician	AAS	1	11	11	13	14	12	8
6004	Chemical Technician	IC	0	0	0	0	1	2	1
	Chemistry Applicant	ND	27	0	0	0	1	0	0
		Total	83	156	105	117	167	186	159
	COMPOSITE TEACHING MAJORS								
6008	Biology	BA	0	3	0	0	4	4	6
6008	Biology	BS	16	19	32	29	33	39	43
	Earth Science	BS	0	0	0	0	0	0	0
	Physical Science/Math/Computer Science	BS	0	0	0	0	0	0	0
6009	Physical Science Composite Teaching	BS	4	4	4	6	3	2	3
		Total	20	26	36	35	40	45	52
	GEOSCIENCES								
6012	Applied Environmental Geoscience	BS	16	19	22	28	22	21	27
6011	Earth Science Composite Teaching	BA	0	1	13	12	1	1	0
6011	Earth Science Composite Teaching	BS	13	12	0	0	9	8	6
6010	Geology	BA	0	1	22	26	2	5	7
6010	Geology	BS	21	25	0	0	23	19	33
6014	Geomatics Applied Mapping Sciences	IC	2	1	1	1	0	0	1
	Geology Applicant	ND	7	0	0	0	0	0	0
		Total	59	59	58	67	57	54	74
	MATHEMATICS								
6029	Mathematics	BA	0	4	0	0	3	7	10
6029	Mathematics	BS	16	14	16	18	17	11	38
6030	Mathematics Teaching	BA	0	3	41	54	17	15	16
6030	Mathematics Teaching	BS	45	46	0	0	46	61	54
6031	Mathematics Applied	BA						5	1
6031	Mathematics Applied	BS	4	6	11	13	17	7	10
	Mathematics Applicant	ND	5	0	0	0	0	0	0
		Total	70	73	68	85	100	106	129
	MICROBIOLOGY								
6015	Microbiology	BS	131	214	151	177	163	176	188
6016	Biotechnology	AS	0	8	8	4	6	3	5
6017	Biotechnician	IC	0	1	0	1	0	0	1
	Microbiology Applicant	ND	34	0	0	0	0	0	0
		Total	165	223	159	182	169	179	194
	PHYSICS								
6018	Physics	BA	0	1	37	51	4	3	3
6018	Physics	BS	33	39	0	0	42	51	54
6019	Physics Applied	BA	0	2	18	9	1	1	3
6019	Physics Applied	BS	13	14	0	0	9	11	16
	Physics Engineering	BS	0	0	0	0	0	0	0
6020	Physics Teaching	BA	0	1	6	10	2	2	2
6020	Physics Teaching	BS	7	6	0	0	8	9	9
	Physics Applicant	ND	21	0	0	0	0	0	0

		Total	74	63	61	70	66	77	87
	PRE-PROFESSIONAL PROGRAMS								
0003	Pre-Dentistry	BA							2
0003	Pre-Dentistry	BS							16
0003	Pre-Dentistry	ND	55	0	69	0	0	0	0
0004	Pre-Medicine	BA							6
0004	Pre-Medicine	BS							33
0004	Pre-Medicine	ND	168	0	232	0	0	0	0
0005	Pre-Pharmacy	BA							3
0005	Pre-Pharmacy	BS							8
0005	Pre-Pharmacy	ND	57	0	53	35	0	0	0
0006	Pre-Veterinary Medicine	BA							1
0006	Pre-Veterinary Medicine	BS							11
0006	Pre-Veterinary Medicine	ND	6	0	12	13	0	0	0
0007	Pre-Optometry	ND	11	0	12	0	0	0	0
0008	Pre-Physical Therapy	BA							4
0008	Pre-Physical Therapy	BS							16
0008	Pre-Physical Therapy	ND	19	0	54	0	0	0	0
0012	Pre-Chiropractic	BA							1
0012	Pre-Chiropractic	ND			7	0	0	0	0
		Total	316	0	439	48	0	0	101
	ZOOLOGY								
6021	Zoology	BS	171	390	201	315	276	264	256
	Zoology Applicant	ND	78	0	0	0	0	0	0
		Total	249	390	201	315	276	264	256
	COLLEGE OF SCIENCE TOTAL		1,087	1,049	1,187	951	910	956	1,116
	COLLEGE OF SOCIAL & BEHAVIORAL SCIENCES								
	COMPOSITE TEACHING MAJORS								
7000	Social Science	BA	0	7	0	0	6	5	1
7000	Social Science	BS	32	31	38	47	43	16	5
		Total	32	38	38	47	49	21	6
	CRIMINAL JUSTICE								
7033	Criminal Justice	MS	56	42	27	28	26	33	25
	Criminal Justice Intended	MS	1	0	0	0	0	0	1
7001	Corrections	BA						4	4
7001	Corrections	BS	52	42	27	31	36	24	22
7002	Criminalistics	BA	0	1	65	53	8	11	12
7002	Criminalistics	BS	106	102	0	0	37	25	27
7003	Law Enforcement	BA	0	9	3	0	34	26	35
7003	Criminal Law	BS	283	107	110	141	66	73	102
7005	Criminal Law	BA	0	8	95	90	22	20	10
7005	Criminal Justice	BS	0	125	0	0	36	34	19
7004	Criminal Justice	AA						40	42
7004	Criminal Justice	AS	30	267	228	132	87	53	68
7004	Criminal Justice	BA						35	38
7004	Criminal Justice	BS	0	35	35	106	123	123	150
7034	Law and Justice	BA	0	3	0	0	4	12	15
7034	Law and Justice	BS	0	3	10	20	24	41	49

7035	Forensic Science/Laboratory	BA						3	0
7035	Forensic Science/Laboratory	BS	0	2	6	11	14	11	19
7036	Forensic Science/Investigation	BA						6	6
7036	Forensic Science/Investigation	BS	0	7	33	57	59	49	61
	Criminal Justice Applicant	ND	228	0	0	0	0	0	0
		Total	756	753	639	669	576	623	705
GEOGRAPHY									
7031	Geography	BA	0	3	50	52	9	9	8
7031	Geography	BS	62	48	0	0	41	41	42
7032	Geography Teaching	BA						4	5
7032	Geography Teaching	BS	4	2	5	2	2	5	6
7032	Geography Applicant	ND	1	0	0	0	0	0	0
7040	SS Comp Geography Teaching	BA						1	0
7040	SS Comp Geography Teaching	BS						1	1
		Total	67	53	55	54	52	61	62
HISTORY									
7007	History	BA	0	25	2	0	43	47	47
7007	History	BS	95	125	133	150	93	81	83
7008	Teaching	BA	0	19	58	64	32	35	52
7008	Teaching	MJ							1
7008	Teaching	BS	50	47	0	0	34	36	79
7009	Public History	BA	0	2	6	7	3	4	2
7009	Public History	BS	2	3	0	0	7	7	2
	History Applicant	ND	43	0	0	0	0	0	0
7039	SS Comp History Teaching	BA						10	5
7039	SS Comp History Teaching	BS						14	4
		Total	190	221	199	221	212	234	275
POLITICAL SCIENCE & PHILOSOPHY									
7011	Philosophy	BA							13
7011	Philosophy	BS			5	16	23	26	17
7012	Political Science	BA	0	13	4	0	47	44	39
7012	Political Science	BS	77	102	90	99	70	84	81
7013	Political Science Teaching	BA						3	4
7013	Political Science Teaching	BS	2	2	3	1	2	3	4
	Political Science Applicant	ND	35	0	0	0	0	0	0
0009	Pre-Law	BA							9
0009	Pre-Law	BS							5
0009	Pre-Law	ND	14	0	51	0	0	0	0
7041	SS Comp Political Sci Teaching	BA						1	1
7041	SS Comp Political Sci Teaching	BS						2	0
		Total	128	117	153	116	142	163	173
PSYCHOLOGY									
7015	Psychology	BA	0	40	3	0	123	168	163
7015	Psychology	BS	257	341	347	376	273	279	323
7016	Psychology Teaching	BA	0	5	17	16	4	5	9
7016	Psychology Teaching	BS	11	9	0	0	7	4	4
	Psychology Applicant	ND	156	0	0	0	0	0	0
		Total	424	395	367	392	407	456	499
SOCIAL WORK									
7017	Social Work	BA	0	9	5	0	13	11	55
7017	Social Work	BS	117	176	174	164	92	117	220

	Social Work Applicant	ND	67	0	0	0	89	107	0
7006	Gerontology	BA	0	2	0	0	1	0	1
7006	Gerontology	BS	10	7	9	9	3	3	6
	Gerontology Applicant	ND	7	0	0	0	0	0	0
		Total	201	194	188	173	198	238	282
SOCIOLOGY & ANTHROPOLOGY									
7018	Anthropology	BA	0	5	49	56	12	14	29
7018	Anthropology	BS	39	39	0	0	44	44	50
	Anthropology Intended	ND	2	0	0	0	0	0	1
7019	Archaeological Technician	IC						1	0
7019	Archaeological Technician	AAS	0	5	3	4	0	4	3
	Archaeological Technician Applicant	ND	4	0	0	0	5	0	0
7020	Sociology	BA	0	8	0	0	25	25	21
7020	Sociology	BS	49	55	57	76	50	52	79
7021	Sociology Teaching	BA	0	1	0	0	3	2	1
7021	Sociology Teaching	BS	2	3	3	4	4	3	3
	Sociology Applicant	ND	17	0	0	0	0	0	0
		Total	113	116	112	140	143	145	187
OTHER									
	Aerospace Studies	BS	0	0	0	0	0	0	0
	General Economics	ND	2	0	0	0	0	0	0
		Total	2	0	0	0	0	0	0
COLLEGE OF SOCIAL & BEHAVIORAL SCIENCES TOTAL			1,913	1,887	1,751	1,812	1,779	1,941	2,189
GENERAL STUDIES									
1000	Bachelor Integrated Studies	BIS	68	70	95	206	111	120	149
1001	General Degree Vocational	AAS	6	4	0	0	0	0	0
1007	Non Degree Seeking	ND	342	765	1,579	686	4673	5,040	5199
1001	General Studies	BS	0	42	0	0	31	1	0
1001	General Studies	AA	0	245	0	0	380	405	401
1001	General Studies	AS	1,194	3,395	3,276	3,322	1813	2,037	1933
1001	General Studies	ND	882	326	319	92	16		0
	General Studies Applicant	ND	6	0	0	0	0	0	0
	Undeclared	BS	9	0	0	0	1		0
1006	Undeclared	ND	2,913	29	25	18	23	6	44
	Other - Unknown	ND	8	2	0	0	105		6
		Total	5,428	4,878	5,294	4,324	7,153	7,609	7,732
UNIVERSITY TOTAL			18,498	18,124	18,303	18,081	21,388	23,001	24,048



**WEBER STATE UNIVERSITY  
COLLEGE OF SCIENCE**

**ENROLLMENT BY MAJOR**

	<b>Botany</b>	<b>Chemistry</b>	<b>Geosciences</b>	<b>Mathematics</b>	<b>Microbiology</b>	<b>Physics</b>	<b>Zoology</b>	<b>Pre-Professional</b>
2004	51	83	59	70	165	74	249	316
2005	59	156	59	73	223	63	390	0
2006	60	105	58	68	159	61	201	439
2007	32	117	67	85	182	70	315	48
2008	35	167	57	100	169	66	276	0
2009	45	186	54	106	179	77	264	0
<b>2010</b>	<b>64</b>	<b>159</b>	<b>74</b>	<b>129</b>	<b>194</b>	<b>87</b>	<b>256</b>	<b>101</b>

**STUDENT CREDIT HOURS (Fall 2009 plus Spring 2010)**

<b>Botany</b>	<b>Chemistry</b>	<b>Geosciences</b>	<b>Mathematics*</b>	<b>Microbiology</b>	<b>Physics</b>	<b>Zoology</b>
4,004	13,193	4,190	23,877	6,307	6,644	8,582

\*Does not include remedial math courses 0950 and 0960, which equal roughly 12,000 SCH's for this time period.





**Meeting Reports – No. 01, 02 & 03**

**Project Name: WSU Science Building Feasibility Study**

MHTN Project No.: 2011503.00  
 Phase: Feasibility Study  
 Meeting Dates: January 19 & 23, 2011  
 Time: 01/19/11 – 9:30 & 10:30 AM; 01/23/11 – 2 PM  
 Location: WSU  
 Purpose: Department Space Verifications & Locations

Attendees	Representing	Phone	Email
<input type="checkbox"/> Ann Millner	WSU - President	801.626.6001	amillner@weber.edu
<input type="checkbox"/> Norm Tarbox	WSU - VP Admin. Services	801.626.6003	ntarbox@weber.edu
<input type="checkbox"/> Kevin Hansen	WSU - Assoc. VP Facilities	801.626.8022	khansen@weber.edu
<input checked="" type="checkbox"/> Mike Vaughan	WSU - Provost	801.626.6006	mvaughan@weber.edu
<input checked="" type="checkbox"/> Mark Halverson	WSU - Facilities/Planning	801.626.6562	markhalverson@weber.edu
<input checked="" type="checkbox"/> Dale Ostlie	WSU - Dean of Science	801.626.6201	dostlie@weber.edu
<input checked="" type="checkbox"/> Ron Meyers	WSU - Zoology	801.626.6170	rmeyers@weber.edu
<input checked="" type="checkbox"/> Marek Matyjasik	WSU - Geology	801.626.7726	mmatyjasik@weber.edu
<input checked="" type="checkbox"/> John Thaeler	WSU - Mathematics	801.626.7041	jthaeler@weber.edu
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<input checked="" type="checkbox"/> Barbara Wachocki	WSU - Botany	801.626.7223	bwachocki@weber.edu
<input type="checkbox"/> Sue Harley	WSU - Botany	801.626.7434	sharley@weber.edu
<input checked="" type="checkbox"/> Barry Lloyd	WSU - Chemistry	801.626.6894	blloyd@weber.edu
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<input checked="" type="checkbox"/> Josh Vel	MHTN	801.595.6700	josh.vel@mhtn.com
<input checked="" type="checkbox"/> Sarah Miller	MHTN	801.595.6700	sarah.miller@mhtn.com
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<input type="checkbox"/> Peggy McDonough	MHTN	801.595.6700	peggy.mcdonough@mhtn.com
<input checked="" type="checkbox"/> Jenny Metzger	MHTN	801.595.6700	jenny.metzger@mhtn.com

1. Revisions to previous minutes: *N/A*

2. Schedule:	Planned	Actual
A. Feasibility Study Preliminary Conclusions:	Mid February	
B. Upcoming scheduled events: Steering Committee Meeting Department Meetings	_____	
C. Estimated % of work completed:	_____	
D. Work not on schedule and reason(s):	<b>None</b>	
E. Recovery plan to bring the project back on schedule:	<i>N/A</i>	

420 East South Temple, Suite 100 . Salt Lake City . Utah . 84111 . 801.595.6700 . Fax 801.595.6717 . www.mhtn.com  
 05/23/12 - 1:37 PM(K:\Higher\_Ed\2011503 WSU Science Building Feasibility Study\O MANAGEMENT+ CORRESPONDENCE\4 Meeting Reports\Meeting\_20110202\_fm\_format.doc

- G. Work planned before next meeting:
  - **MHTN to review latest benchmarking to help predict future growth and needs for the new building.**
  - **Plan a department meeting to discuss the ideas of shared spaces to gain efficiencies and synergies between departments. Present recent success stories.**
  - **WSU to schedule possible site visits of recently completed science facilities to understand trends and to promote "out of box" thinking**
  - **Mark H. to get MHTN floor plans and updated space lists**
  - **Dale and Mark to send classroom and lecture hall occupancy/usage data to MHTN.**
  - **WSU to discuss likely growth rates for the College, as well as the likelihood of using TERM teaching model for Quantitative Literacy.**

3. Action Items:

- A. The Goals for the Feasibility Study are to include:**
- What size building can be built on the site?
  - Which departments and programs will be included in the new building, and what are their approximate space needs?
  - Which departments and programs are being displaced?
  - Are there any new departments and/or programs to be included in the new building based upon projected growth and future needs?
    - Neuroscience
    - Genetics
    - Biology
  - What short-term improvements may be made to the Lind Lecture Hall to better accommodate College of Science needs?

**B. Project Deliverables:  
1-19-2011**

- Feasibility Report Preliminary Conclusions – **Due mid-February**
- Site Rendering

**C. Site & Building:  
1-19-2011**

- Continued site study to determine true capacity and possible future growth options.
- Mike Vaughan is in favor of pushing the site to the north provided that there is funding.
- Take advantage of current construction costs and build shell space for future growth
- Will it be possible to fit all science and math spaces in the new facility? This would be the ideal scenario.
- The new building shall not be taller than 3 stories as expressed by the school President, Ann Millner. MHTN exploring the possibility of a basement plus 3 stories above grade to maximize building square footage.
- Science Laboratory space will be given a higher priority over lecture and classroom space in the new building.

**Current Project Budget to be proposed to Legislature:  
\$40 to \$50 million**

**Current Approximate Project Footprint Square Feet:**  
150,000

#### 4. Existing Building Spaces and Possible Relocations:

##### A. Building 3:

- Interior Design → Lind? Engineering Tech?
- Math → [New Science Building](#)
- Center for Chemical Technology (Neutraceutical) → ?

##### B. Building 4:

- Math → [New Science Building](#)
- Applied Science and Technology → Engineering Tech?
- Quantitative Lit. classrooms → Lind?

##### C. Lind Hall:

- The Planetarium and Museum functions → remaining in Lind.
- Science Lecture Halls/Classrooms → remaining in Lind.
- Any Science Depts. → [New Science Building](#)

##### D. Engineering Technology:

- Science Labs & Classrooms → [New Science Building](#)

##### E. Science Lab Building:

- Science Programs → all moving to [New Science Building](#)

##### F. Lampros Hall:

- The "Hub" - 187 computer workstations → to remain in Lampros but need to find space for another 80 workstations in immediate future

##### G. Davis 2:

- Chemistry Labs → remaining in Davis because it serves Davis County residents and HAFB.

##### H. Campus Services Building:

- Information Technology → [New Science Building \(basement\) - T.B.D.](#)

#### 5. Departments:

##### A. Botany

Staff: 6 Full Time Faculty with growth of +1  
2-3 Adjuncts

Projected Department Growth: **To be determined.**

- Add 1 research lab for 2 faculty (410 SF)
- 24 students per lab is the ideal planning model.
- Botany currently has 1 lab for 30 students and 3 labs for 24 students. Five labs at 24 students would be ideal.
- The Class-lab function works very well for this department which means providing more space for the teaching lab bench at the front of the classroom/lab.
- Add Lecture rooms 126 and 129 to the department space list. Mark H. to revise the space list with the correct numbers.
- Add the Herbarium, room 420 to the department space list. The Herbarium is approximately 900 sq. ft. and needs to increase to 1200 sq. ft.
- A third greenhouse is desired, approximately 1100 to 1600 sq. ft.

##### B. Chemistry:

Staff: 11 F.T. Faculty with growth of +1  
3-4 Adjuncts

Projected Department Growth: To be determined.

- Currently, research space is completely inadequate. They only have research space for 1/3 of the faculty. Each faculty should have their own space and it should increase in size by 50% from the current sq. footages.
- Offices should be located in close proximity to the research labs.
- Future growth projections are strong. Since 1985 they had a 50% increase in students in the chemistry program due to the large number of students going pre-med.
- WSU offers a new engineering degree which may also have significant impact on the chemistry and math programs growth.
- Design Considerations: Vibration Isolation
- Provide separate lab and lecture space (no lecture in student labs).
- 50% additional space is needed for chemical stores.

##### C. Microbiology:

Staff: 6 F.T. Faculty (currently down 1 - should be 7) with growth of +1 = 8  
2-3 Adjuncts

Projected Department Growth: To be determined.

- The class-lab set up is ideal for Microbiology. Class-labs should be large to accommodate this function at approximately 1000-1200 sq. ft. each.
- Anticipating needing 6 teaching labs (class-labs).
- Storage is completely inadequate and unsafe.
- 1 to 2 secured and centrally located prep labs are required.
- Safe and secure chemical storage needs to be a priority.
- All faculty do research. It would be ideal to have research lab space located in close proximity to the prep labs. Labs can be shared by 2 faculty as long as the sq. ft. is adequate (around 450 sq. ft.).
- Specialty equipment can be shared throughout the department within a lab or prep space or even an equipment corridor.
- The research lab room 133E in Eng. Tech should be located in close proximity to the class-labs.
- Labs in rooms 344 and 345 are the preferred lab size for this department.

##### D. Physics:

Staff: 11 Faculty (9 F.T & 2 P.T. - may be down 1 currently) with growth of +1  
2-3 Adjuncts

Projected Department Growth: To be determined. Majority of Physics growth will be the need for larger classes as they are a service department. Adding a couple of faculty and research space as well.

- Physics currently has two more offices than are noted on the space list.
- Research labs inadequate and should be increased by 50%.
- Currently, it is desired that 80% of the faculty have their own research space. We may want to consider increasing that to 100% for future needs.
- High ceilings in the labs are required for this department 14'-0" aff

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Meeting Reports 01, 02 & 03  
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- Current labs are adequate in size but need to increase from 900 to 1200 sq. ft. so they can accommodate the class-lab set-up. Current teaching lab quantity is adequate for the current faculty quantity.
- Science Lab room 240 is a 36-seat classroom that is used exclusively by Physics, scheduled from 8:30 AM to 1:30 PM. It is adequate for current needs, but in the future, they will need a 50-seat classroom to teach service courses (supporting other majors).
- Design considerations: Vibration isolation (possible basement location on isolated slab – could use 2-3 spaces like this); black-out capability; electrical shielding. Will need 1 non-windowed space. Consider an internal window to provide visibility for equipment like the SEM.

#### E. Geosciences:

Staff: 6 F.T. Faculty with growth of +1  
3 Adjuncts

Projected Department Growth: 15%, to be verified.

- Current storage for geology specimens is adequate but would like to increase storage for future growth. Needs to be easily accessible to a service entrance / loading dock; can be basement level, no windows. Some geology specimens stored in the labs and lecture rooms and periodically rotated throughout.
- There is a need for a shared lab between Geosciences and Physics - 1 large lab for specific microscope work = New Microscopy Lab. This space could possibly include the S.E.M, 1 or 2 Optical Microscopes, the A.F.M., etc. This lab could possibly be shared by all departments in the College.
- G.I.S. Computer Lab (Science Lab room 329) to be added to the department space list. Currently occupies approximately 350 sq. ft. with space for 15 computer workstations. Would like to increase space to 600 sq. ft. and 24 computer workstations.
- Lab and lecture are separate functions, not set up in the class-lab format, to facilitate the use of lab space by students outside of class hours.
- Every faculty should have their own research lab at approximately 350 sq. ft. It is not practical to have 2 faculty share 1 larger research lab due to the broad spectrum of research.
- Design considerations: Vibration isolation, electrical shielding.

#### F. Zoology:

Still waiting on feedback from his department and will get back to us by next week with more information)

Staff: 5 F.T. Faculty with growth of +1?  
x Adjuncts

Projected Department Growth: To be determined.

- Almost all spaces need to double in size. Their current spaces are completely inadequate.
- Sharing of equipment within the department is very feasible for this department. A shared equipment corridor is a good idea.
- The class-lab/lecture lab setup is ideal. They currently have a 30 student capacity in each lab.
- The DNA Research lab is inadequate at 965 sq. ft. as they often have 5 faculty using the room at once. It should be 1200 sq. ft. at a minimum.

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- Close proximity between the offices and research labs is desired.
- Vivarium Planning - at this time, they have not predicted the growth for this area but they do not want to be limited in the future. It would be ideal to have space that would allow for multiple species of animal housing, procedure rooms, cage/rack washing abilities, storage space, etc. At a minimum we should plan for 1,500 sq. ft. (to be verified).

#### G. Developmental Math:

Staff: 11 F.T. Faculty  
30 Adjuncts

Projected Department Growth: unknown but at least 25%

- Developmental Math has seen large growth in the last few years increasing at a rate of 35%, 900 students alone last semester. About 70% of WSU first-year students participate in Developmental Math.
- T.E.R.M. teaching model is used which has proven very efficient and effective. This is a non-traditional model of teaching students in a computer lab for the majority of their coursework. Students spend 50 minutes per week in a classroom with the instructor, and then are required to spend an additional 100 minutes / week on their own time in the Hub, a math computer lab.
- Developmental Math uses (3) computer-station classrooms (2 in Bldg. 4 & 1 in Eng. Tech.), which are currently scheduled from 7:30-2:30 and 5:30-7:30 daily (except Friday evening and Saturday). A classroom size of 1,040 SF is good for 24 computer stations. The computer stations must accommodate the teacher sitting with the student for one-on-one instruction. Classrooms require projection and ELMO capability.
- Classrooms should increase from the current quantity of 3, to around 4 or 5 rooms.
- The Hub, the large computer lab with 187 workstations, is currently located in Lampros Hall and is open Mon.-Thurs 7:30 am – 8:30 pm and Fri.-Sat. 7:30/9:30 am – 5:30 pm. There are typically 8 to 10 helpers on the floor at a time (3 Faculty and the remainder adjuncts). This function most likely will remain in Lampros but at a minimum, an additional 60 to 70 workstations need to be added for the near future. 300 total workstations should be the goal for future growth projections. Some rooms are required in the Hub for tests, quizzes, and students who require a distraction-free setting. Each station in the Hub has a PC.
- Adjunct office space should be planned in close proximity to the labs. Offices could be grouped together with shared meeting spaces scattered throughout. Adjuncts can share offices.

#### H. Math:

Staff: 11 F.T. Faculty, with current search for a 12<sup>th</sup>; growing proportionally with WSU's enrollment

20 Adjuncts +/-

Projected Department Growth: To be determined. Continued increased growth expected

- The Math department functions very traditionally with standard lectures in the classrooms. There are 36-38 students/class with a goal of 40 students per class.

WSU Science Building Feasibility Study  
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- The Steering Committee will need to provide MHTN further information on the Math department and future growth needs as well as the future teaching format (traditional vs. TERM).
- Rooms 516 and 517 are inadequate at 588 sq. ft. It is desired that both increase to around 1000 sq. ft.
- The computer classroom in room 127 of the Eng. Tech building should be able to provide space for 24 computer workstations.

**I. Miscellaneous**

- It will be necessary to provide a Dean's office suite with adjacent conference rooms, administration space, and dedicated storage.
- Plan for Department Chairs suites: A pair of Chair offices (twice the size of the typical office) with one Secretary office (some departments share support staff).
- Plan for shared office space for adjunct faculty, for each department.
- Plan for open student study spaces, universal gathering areas.
- Faculty desire a private coffee/break room. It can be located near student spaces but made private for faculty only.
- Student Lockers scattered throughout the new building - plan for 300 (small).

**End of Meeting Reports 01, 02 & 03**

*Minutes will stand as recorded unless notified within 3 working days of any discrepancies or inaccuracies.*

