





AGENDA

- INTRODUCTION
- PROJECT UPDATE

Project Vision and Goals
Existing Conditions Analysis
Department Fit Analysis

Building Programming
Site Concepts
Space Fit/Stacking Concepts
Cost Modelling/Budget Confirmation
Recommendations

- PROGRAMMING SESSIONS What to expect
- **END OF DAY WRAP UP**

Western Carolina University

Jenkins Peer Architects

Rob Hsin, AIA LEED AP Project Manager

Taylor Jarrell, AIA LEED Green Associate Project Architect

Benjamin Benson, AIA LEED AP Principal in Charge

Ronna Emerling, AIA Project Architect

SUD ASSOC	SKA	CDC	FLEMING	RUTHERFORD
MEP/FP	Structural	Civil	Envelope	Cost

PROJECT VISION AND GOALS



History: Celebrate one of the oldest remaining buildings on campus and WCU history.

Cultural: Student node, student centric, respect for local culture. Flexibility: Flexible teaching and learning capabilities, adaptability for future change.

Active Learning: Classroom spaces that allow for multiple teaching styles including active engagement of students on multiple settings. Academic: Building that focuses on teaching / learning.



PROJECT VISION AND GOALS

ACADEMICALLY CENTERED

- Create an Active learning environment
- Fosters collaborative learning and creativity
- Learning is not limited to classroom spaces, it extends throughout building and includes exterior
- Accommodates multiple teaching pedagogies

DESIGN FOR FUTURE FLEXIBILITY & ADAPTABILITY

- Consider long term return on investment in addition to first time cost
- Teaching spaces that are flexible and adaptable for multiple pedagogies
- Technology and modernization that allow for adaptability
- Seamless integration of technologies

HONORING HISTORY

- Capture the appreciation of Moore history while harnessing the future
- Respectful restoration and preservation of historic exterior and the historic interior parlor and fireplace

DESTINATION

- Make Moore an Anchor destination
- Cultural node as a student destination
- Take advantage of location and views

ACCESSIBILITY AND FUNCTIONALITY

- Ensure and reinforce pedestrian and vehicular connections to campus
- Intuitive wayfinding and clear organization
- Respect for budget and space utilization efficiencies

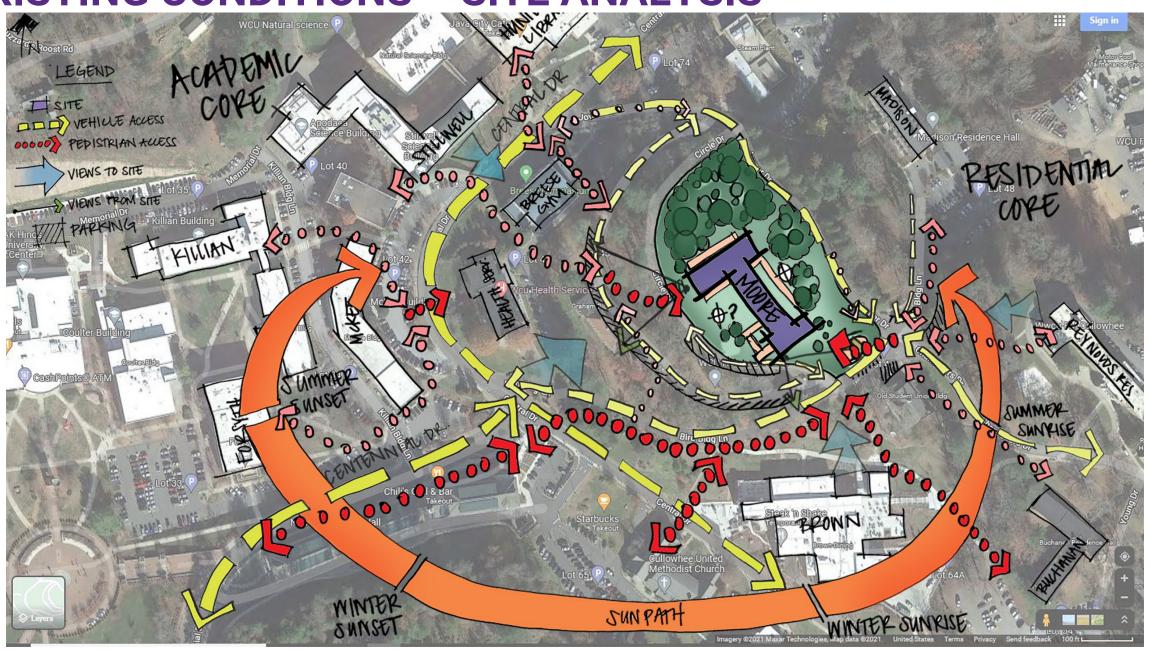




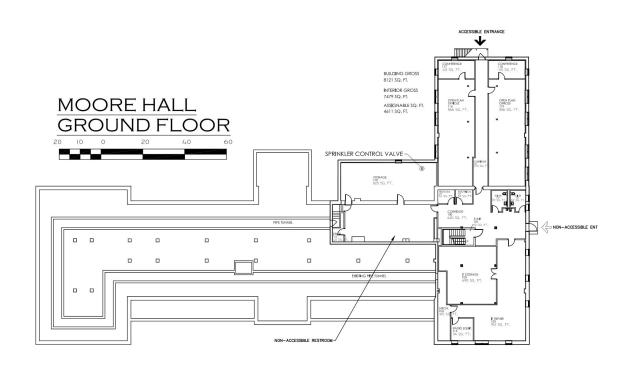


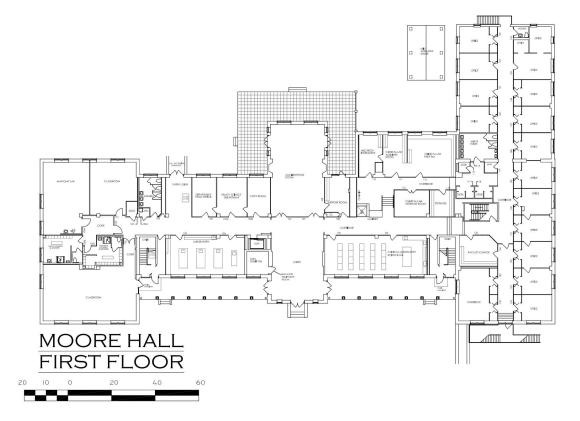
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EXISTING CONDITIONS – SITE ANALYSIS

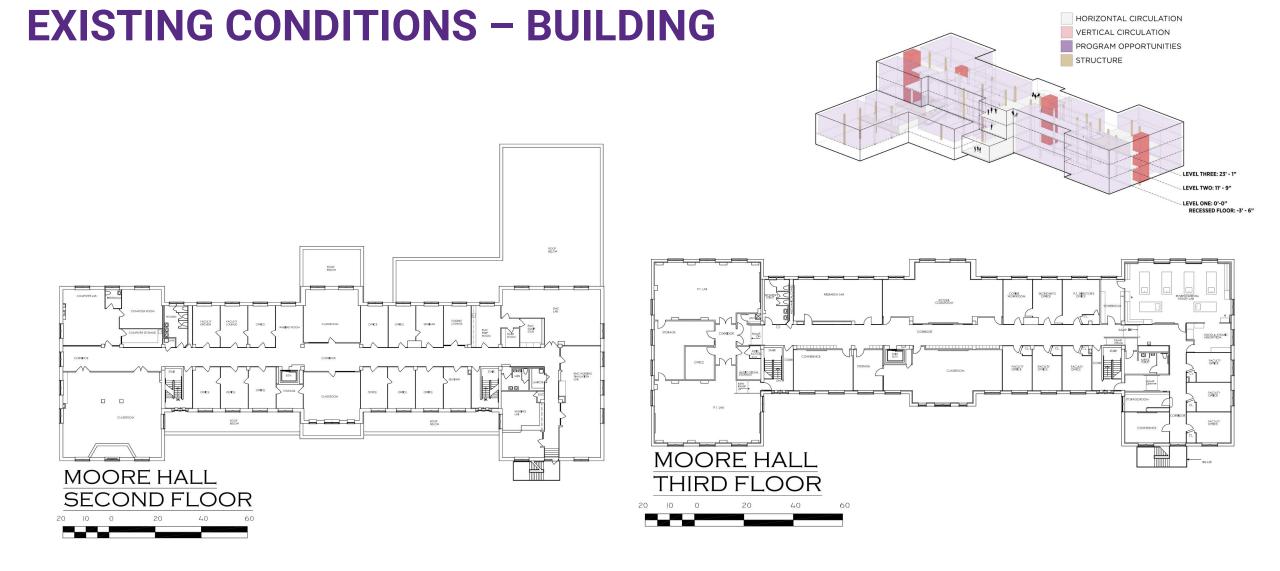


EXISTING CONDITIONS – BUILDING





GROUND: 8,152 SF FIRST: 18,400 SF



SECOND: 14,149 SF THIRD: 14,148 SF

BUILDING CODE SUMMARY

All floor plans of building with SF Building section with floor to floor heights

EXISTING

Full building square footage: 54,849 SF

Ground: 8,152 SF

Level 1: 18,440 SF

Level 2: 14,149 SF

Level 3: 14,148 SF

Height = 52'-1"

Steel columns and beams

Concrete floor structure and Wood

Wood rafters and steel girders for roof

Masonry wythe exterior bearing wall exceeds 2hr

Ground floor sprinklered



CODE SUMMARY - Combination of 2018 NCBC and NC EBC

Use and Occupancy

- Business Group B
- Assembly Group A3 mixed use

Construction Type IIIB

Exterior bearing walls are 2 hr

Building Height = 75 ft allowable with sprinkler **Allowable Area**

- A3 Assembly = 28,500 SF with sprinkler.
- B Business = 57,000 SF with sprinkler

Occupancy Separation = 1hr with sprinkler **Occupant Load**

- Business at 5800/100 = 58. Assembly A3 at 8500/20 = 425
- Total = 483

Egress Stairs = 2 with sprinkler

Recommend IIIB, sprinklered

- Mixed Use non separated (Assembly A3) OR
- Mixed Use separated with 2hr separations for A3 to B

EXISTING CONDITIONS ANALYSIS - PARKING



EXISTING CONDITIONS ANALYSIS - ENVELOPE



covering



Photo 4 - Steep-slope roof with asphalt shingle Photo 11 - Delamination of adhesive used at lap splice



Photo 28 - Damaged coping stones at north elevation



Photo 45 – Downward deflection in steel lintel angle



Photo 30 - Decayed wood framing at canopy

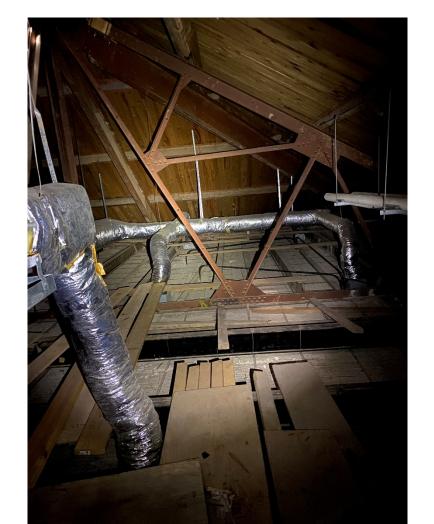


Photo 25 - Missing conductor head to connect scupper to downspout

- Low roof replacement
- Gutter and downspout repairs
- Masonry repointing and repairs
- Wood detailing repairs
- Stone repointing and repairs
- Water intrusion repairs
- Window replacement
- Envelope is in decent condition for its age

EXISTING CONDITIONS ANALYSIS - STRUCTURE

- No major issues with existing structural condition
- Building code upgrades are manageable and do not require serious intervention
- Some strengthening of structure may be required as design progresses to accommodate new infrastructure systems





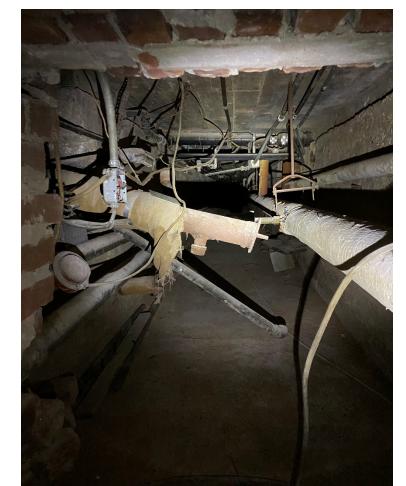


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EXISTING CONDITIONS ANALYSIS - MEP/FP

- Plumbing waste pipe repairs needed, all new restrooms needed
- Mechanical central steam utilizing existing tunnels, new infrastructure and chillers needed
- Electrical new transformers and electrical infrastructure needed
- IT complete replacement of IT infrastructure
- Fire Protection new sprinklering system to be added complete modernization for Fire/Life Safety







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DEPARTMENT FIT ANALYSIS

MOORE BUILDING RENOVATION - DEPARTMENTS							Mestern
Project Number: 20WCU777							
Date: 02.24.2021							Carolina
PROGRAM	TOTAL EXISTING SF	TOTAL EXISTING STAFF COUNT	CURRENT LOCATION	ADJACENCY PROGRAM PREFERENCE?	PROJECTED GROWTH NEED SF (if available)	PROJECTED STAFF COUNT NEEDS (i available)	
Criminal Justice	3,628	3 17 full-time	BELK	two 48 seat classrooms (lecture)		02 full-time	No additional office space needed for projected growth; may require additional classroom space
English	6,558	3 40 full-time	COULTER	four 24 seat classrooms (BYOD); two 36 seat classrooms (lecture)	40		BYOD = bring your own device e-classroom; future undergraduate enrollment growth may require additional classroom space
							both programs could make use of hoteling space for part-time/adjunct instructors (n=20)

PROGRAM	TOTAL EXISTING SF	TOTAL EXISTING STAFF COUNT	CURRENT LOCATION	ADJACENCY PROGRAM PREFERENCE?	PROJECTED GROWTH NEED SF (if available)		COMMENTS
Graduate School and Research	4,800	15 full-time	САМР		none		Currently oversized; total space need = 2,500 SF
Undergraduate Research	none	2 full-time	no location (new)		500 SF	1	new program; considering location in BREESE
International Programs and Services (IPS)	3,600	7 full-time	CAMP	CCESL	none	0	Proposed relocation to BREESE; currently oversized (total space need = 1,100-1,500 SF); Co-location with CCESL not critical
Center for Community Engagement and Service Learning (CCESL)	950	5 full-time	BELK	IPS	300	0	Proposed relocation to BREESE; Community meeting/activity room envisioned (up to 2,000 sf); Requires convenient community access/parking; Co-location with IPS not critical

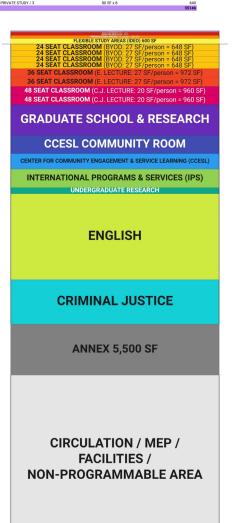
DEPARTMENT FIT ANALYSIS

	MOORE BUILD	ING FIT BOX	
BUILDING SF	55,500		
	Department Program shown in chart	Department Gross Factor (program/.75)	6950 (11%) REMAININ
33% NON-PROGRAM/MEP/CIR		18315	
9% CJ	3628	4837	
17% ENG	6958	9277	
1% UG	500	666	
4% IPS	1500	2000	
3% CCESL	1250	1666	
4% CCESL COMMUNITY RM	2000	2000	
6% GRAD	2500	3333	
5% 24 CLASSROOM	648 SF x 4	2592	
4% 36 CLASSROOM	972 SF x 2	1944	
3% 48 CLASSROOM	960 SF x 2	1920	
89%		48550	

	MOORE BUILDING FIT BO	K RECOMMENDATIONS	
BUILDING SF	55,500		
	Department Program shown in chart	Department Gross Factor (program/.75)	354 (1%) REMAININ
33% NON-PROGRAM/MEP/CIR		18315	
9% CJ	3628	4837	
17% ENG	6958	9277	
1% UG	500	666	
4% IPS	1500	2000	
3% CCESL	1250	1666	
4% CCESL COMMUNITY RM	2000	2000	
6% GRAD	2500	3333	
8% 24 CLASSROOM	648 SF x 7	4536	
5% 36 CLASSROOM	972 SF x 3	2916	
3% 48 CLASSROOM	960 SF x 2	1920	
3% FLEX STUDY AREAS	600 SF x 3		
1% PRIVATE STUDY / 12	300 SF x 2	600	
1% PRIVATE STUDY / 6	160 SF x 4	640	
1% PRIVATE STUDY / 3	80 SF x 8	640	
99%		55146	

24 SEAT CLASSROOM (BYOD: 27 SF/person = 648 SF) 24 SEAT CLASSROOM (BYOD: 27 SF/person = 648 SF) 24 SEAT CLASSROOM (BYOD: 27 SF/person = 648 SF) 24 SEAT CLASSROOM (BYOD: 27 SF/person = 648 SF) 24 SEAT CLASSROOM (BYOD: 27 SF/person = 648 SF) 36 SEAT CLASSROOM (E. LECTURE: 27 SF/person = 972 SF) 48 SEAT CLASSROOM (C.J. LECTURE: 27 SF/person = 960 SF) 48 SEAT CLASSROOM (C.J. LECTURE: 20 SF/person = 960 SF)	
GRADUATE SCHOOL & RESEARCH	1
CCESL COMMUNITY ROOM	
CENTER FOR COMMUNITY ENGAGEMENT & SERVICE LEARNING (CCESL	L)
INTERNATIONAL PROGRAMS & SERVICES (IPS)	
UNDERGRADUATE RESEARCH	
ENGLISH	
CRIMINAL JUSTICE	
ANNEX 5,500 SF	
CIRCULATION / MEP / FACILITIES / NON-PROGRAMMABLE AREA	

MOORE BUILDING FIT BOX



BOX

BUILDING FIT

MOORE



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PROGRAMMING SESSIONS

ROOM DATA WORKSHEET

ROOM NAME:

DEPARTMENT: International Programs & Services

DATE: 10.27.2021

OPEN DISCUSSION

DESCRIPTION

QUANTITY:

SF:

TOTAL SF:

ASSIGNED
CAPACITY:

ADJACENCY
REQUIREMENTS:

ACOUSTIC
REQUIREMENTS:

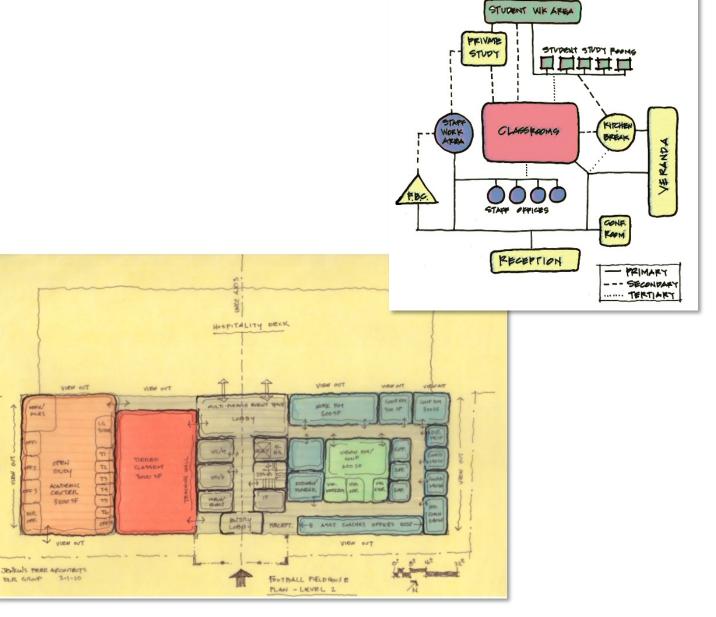
CASEWORK:
FURNITURE:
FINISHES
FLOORS:
WALLS:
CEILINGS:
DOORS:

LIGHTING:
POWER:
HVAC:
PLUMBING:
IT:
A/V:
SECURITY:

EQUIPMENT:

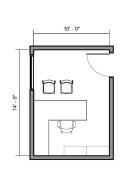
SPECIAL

REQUIREMENTS:

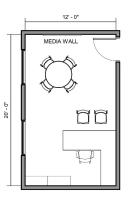


PROGRAMMING SESSIONS

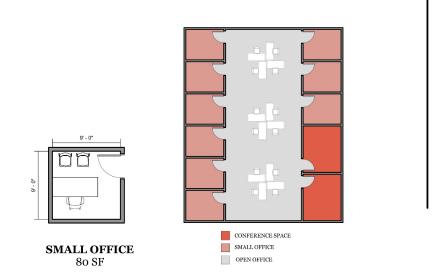
OFFICE LAYOUTS

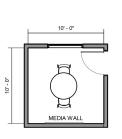


TRADITIONAL OFFICE 120-140 SQFT.

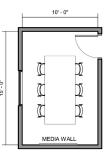


TRADITIONAL DEPT. HEAD OFFICE 180-240 SQFT.

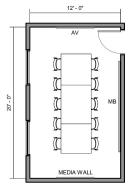




SMALL STUDY 2-4 SEATS 60-120 SQFT.

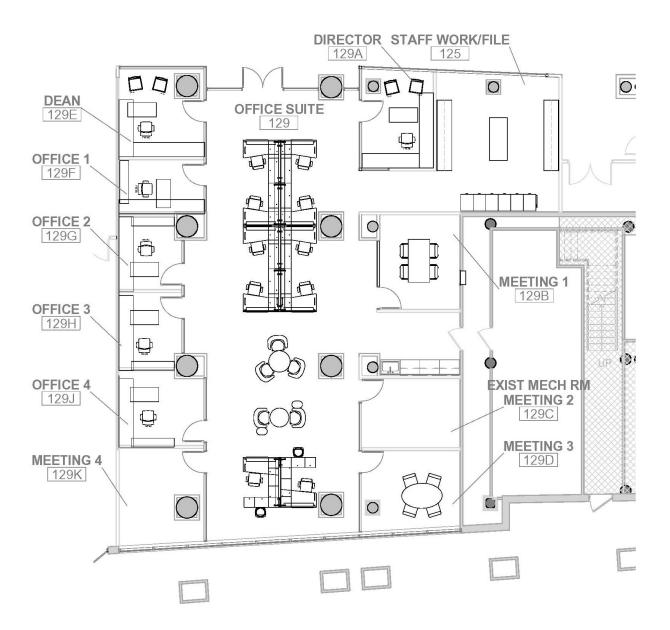


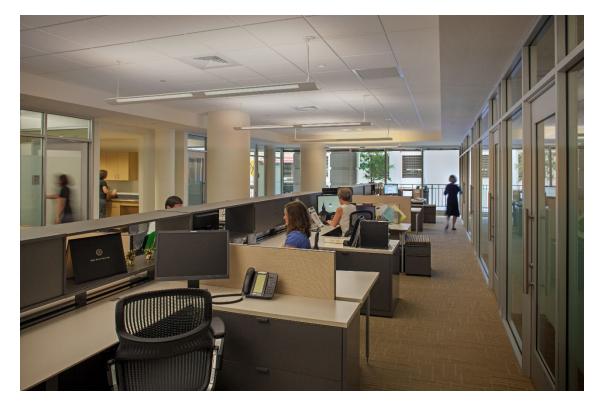
MEDIUM STUDY 6-8 SEATS 150-200 SQFT.



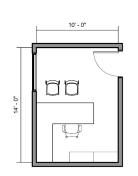
LARGE STUDY 10+ SEATS 220-280 SQFT.

OFFICE LAYOUTS

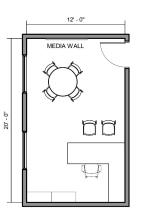




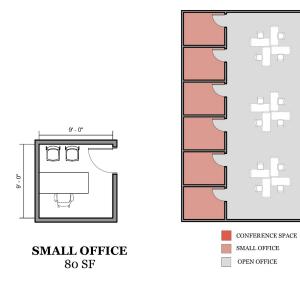
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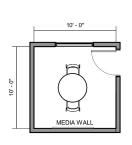


TRADITIONAL OFFICE 120-140 SQFT.

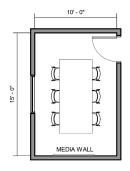


TRADITIONAL DEPT. HEAD OFFICE 180-240 SQFT.

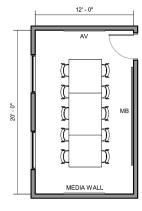




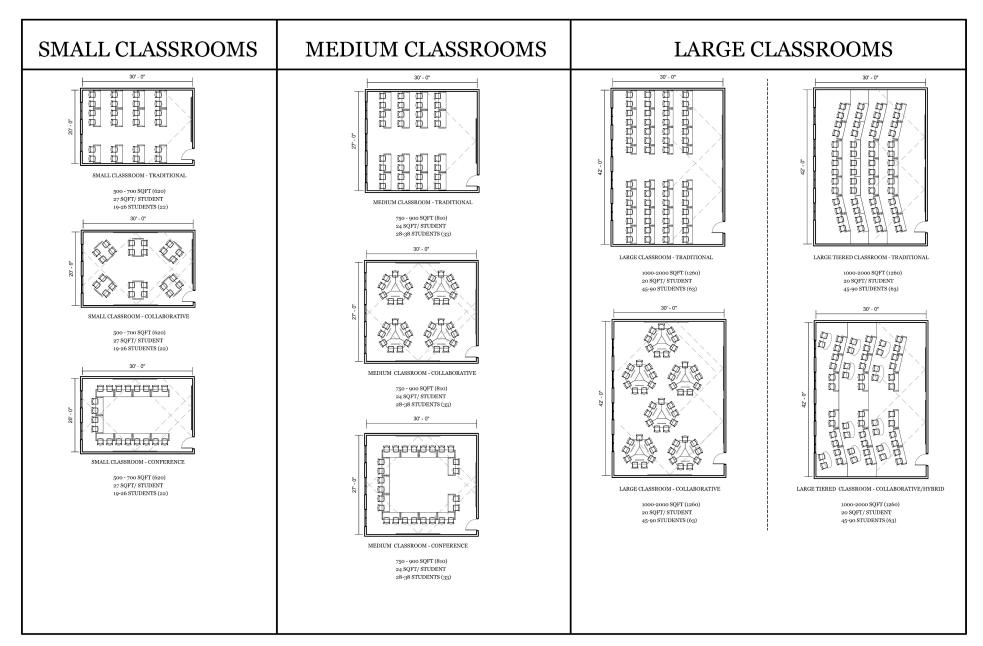
SMALL STUDY 2-4 SEATS 60-120 SQFT.

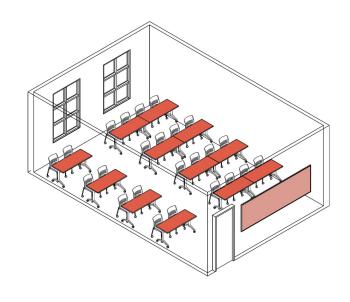


MEDIUM STUDY 6-8 SEATS 150-200 SQFT.



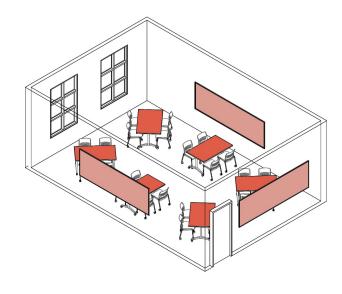
LARGE STUDY 10+ SEATS 220-280 SQFT.





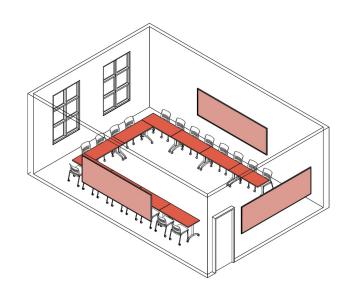
SMALL CLASSROOM - TRADITIONAL

500 - 700 SQFT (620) 27 SQFT/ STUDENT 19-26 STUDENTS (22)



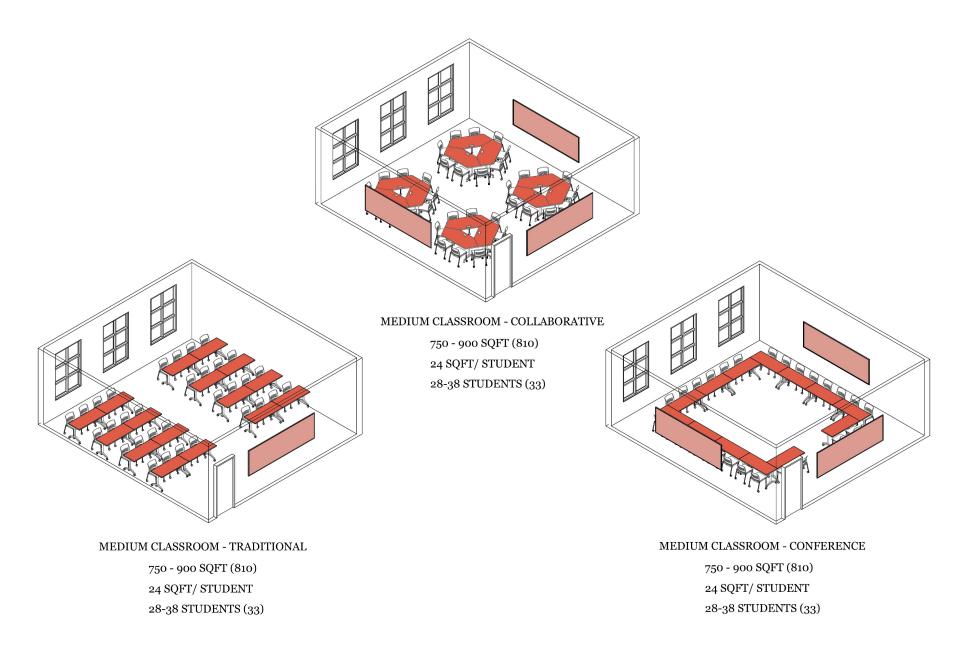
SMALL CLASSROOM - COLLABORATIVE

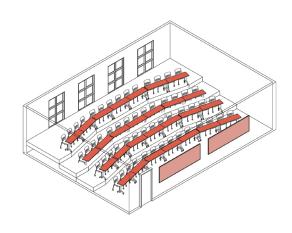
500 - 700 SQFT (620) 27 SQFT/ STUDENT 19-26 STUDENTS (22)



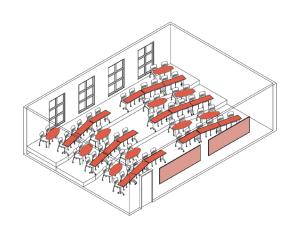
SMALL CLASSROOM - CONFERENCE

500 - 700 SQFT (620) 27 SQFT/ STUDENT 19-26 STUDENTS (22)

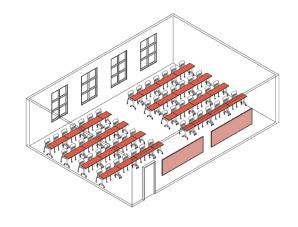




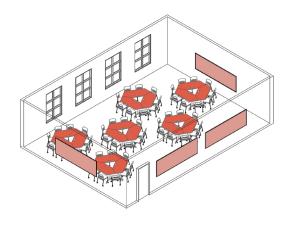
LARGE TIERED CLASSROOM - TRADITIONAL 1000-2000 SQFT (1260) 20 SQFT/ STUDENT 45-90 STUDENTS (63)



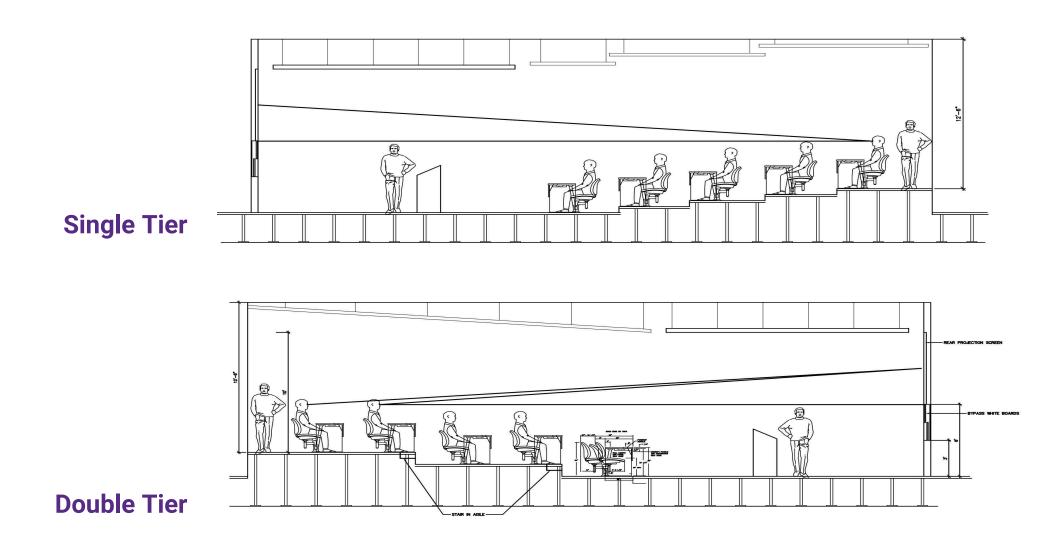
LARGE TIERED CLASSROOM - COLLABORATIVE/HYBRID 1000-2000 SQFT (1260) 20 SQFT/STUDENT 45-90 STUDENTS (63)

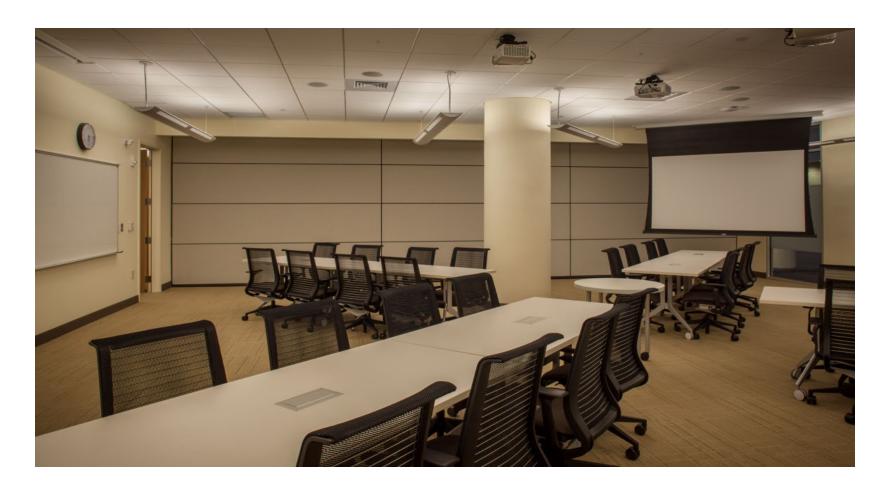


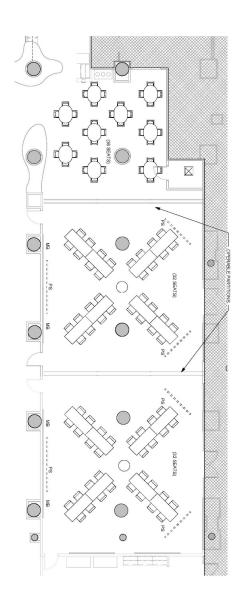
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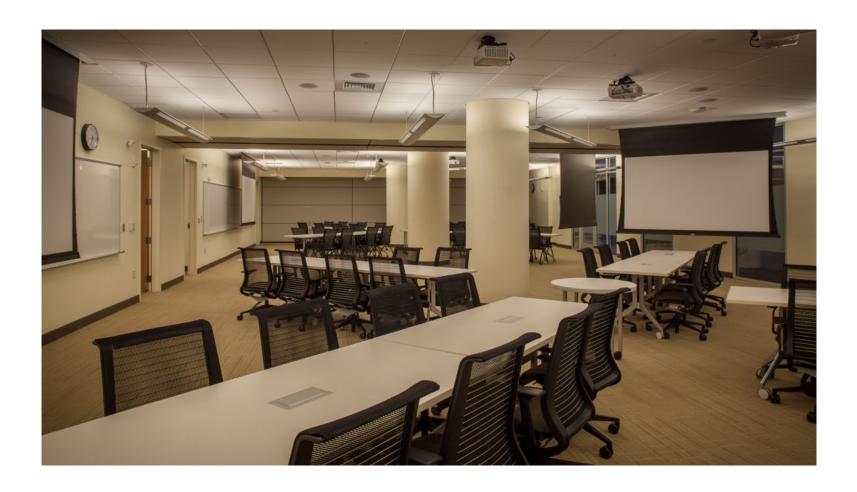


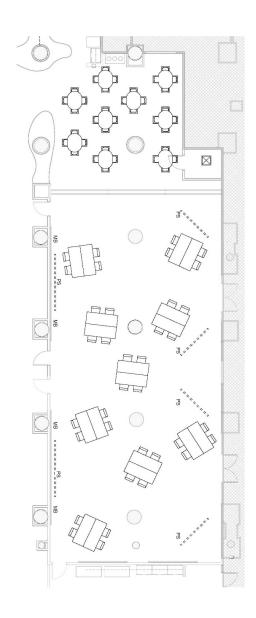
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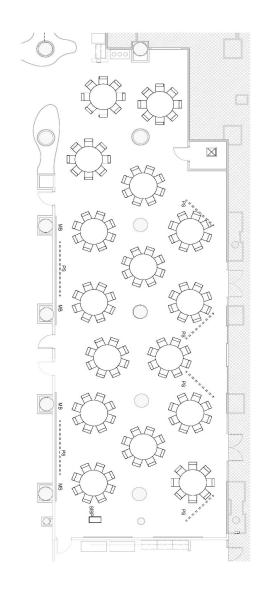




























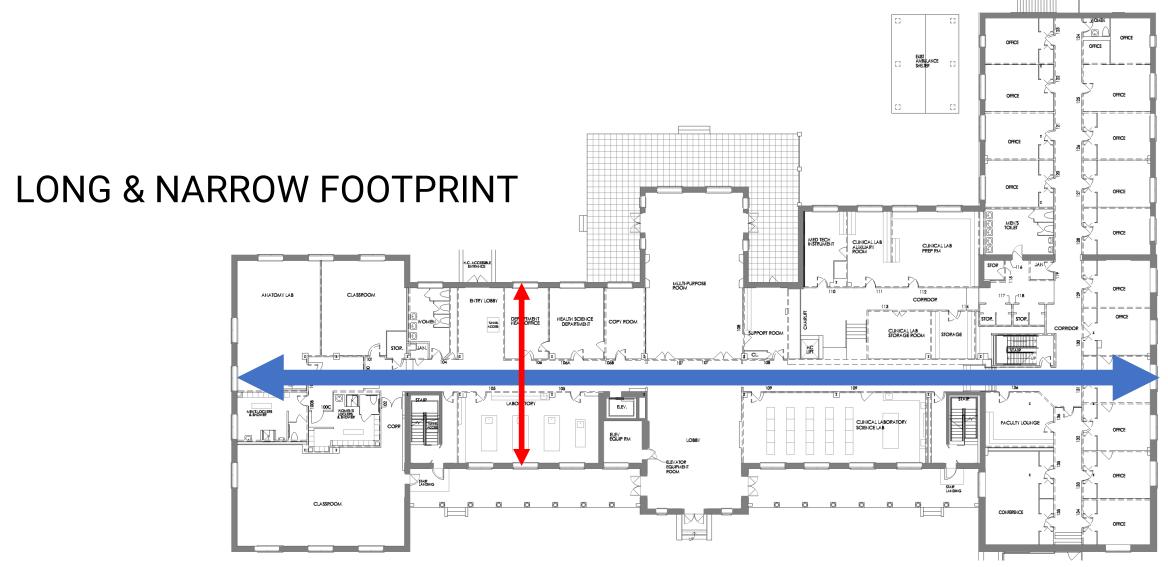




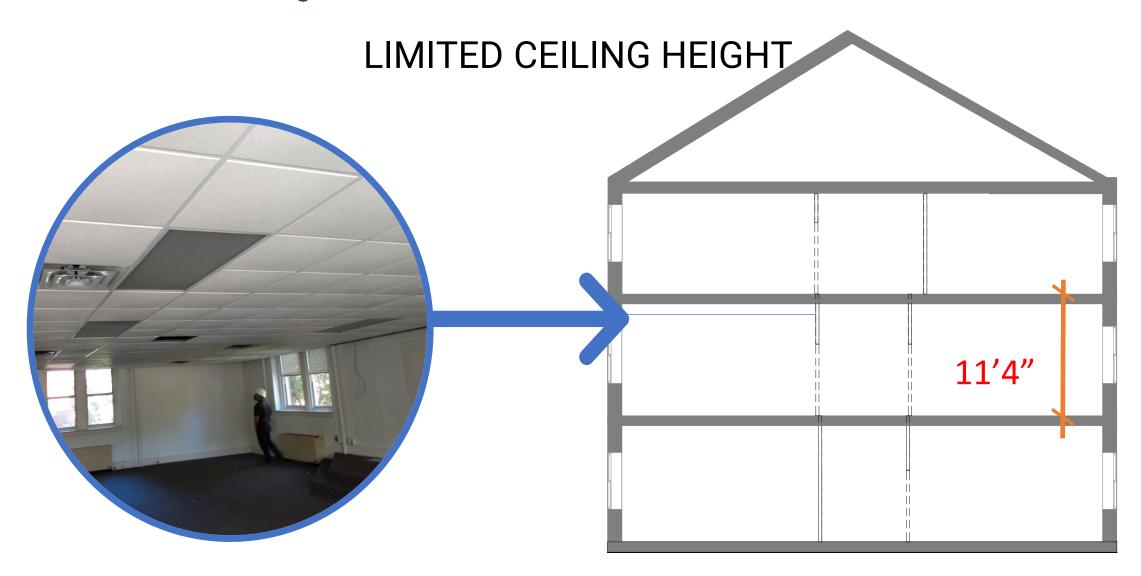




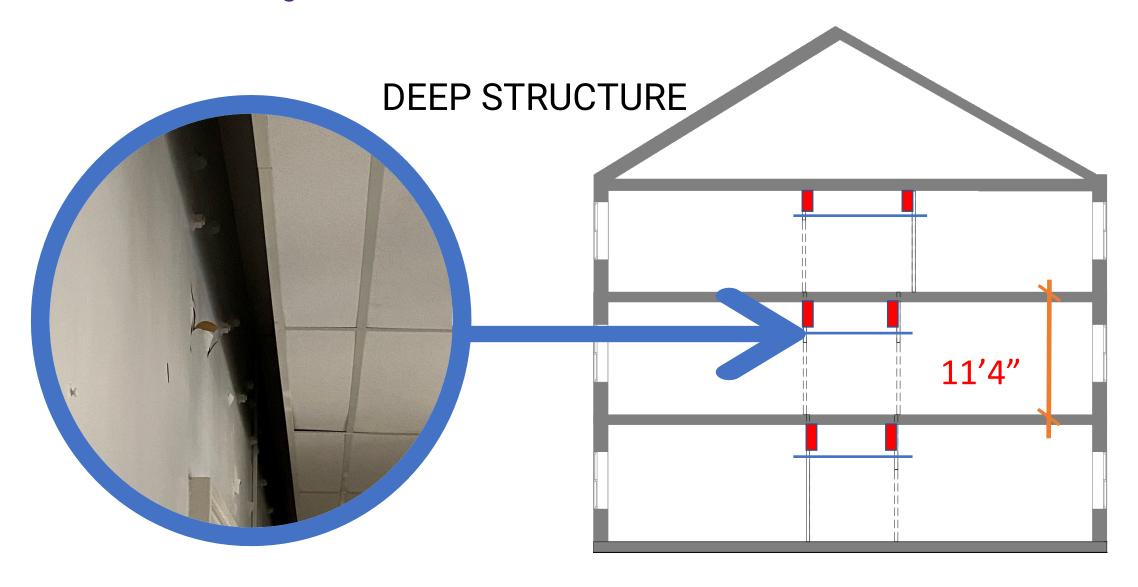
Content | HVAC Challenges



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EXECUTION

CASE STUDY | AGNES SCOTT COLLEGE REBEKAH HALL | BUILT 1905

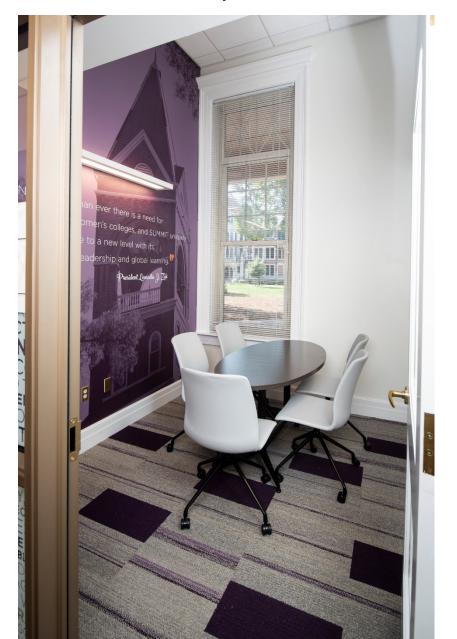


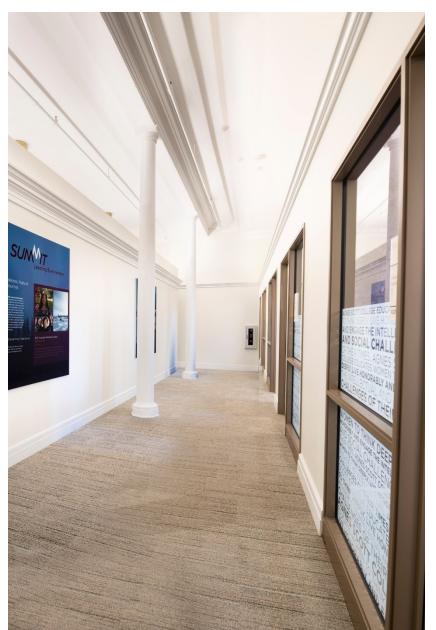


TRANSFORMATIONS

EXECUTION

CASE STUDY | AGNES SCOTT COLLEGE REBEKAH HALL | BUILT 1905







TRANSFORMATIONS

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EXECUTION

CASE STUDY | AGNES SCOTT COLLEGE REBEKAH HALL | BUILT 1905





FLEXIBLE LEARNING SPACE

