

RIVERSIDE METHODIST CHURCH POST-OCCUPANCY EVALUATION

Provost Immersive Learning Grant

Project Title: Using Nature to Redesign Places of Worship in Muncie, IN

Spring 2021 work: Post Occupancy Evaluation

Site: Riverside United Methodist, 1201 Wheeling Ave, Muncie, IN 47303

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PROJECT DESCRIPTION

This project integrates environment, economy, and society to develop more sustainable and healthy places of community worship. Adhering to the professional code of ethics for interior design and construction management (health, safety, and welfare), 120 undergraduate students from the Interior Design (ID) and Construction Management (CM) programs will manage an active, engaged, learner-centered environment as they explore Muncie's diversity of cultures and faith traditions to redesign two places of worship in an environmentally sustainable manner.

Spring 2021: Students from the sophomore IDES 225 History of Interior Design class (a required course in the Interior Design major) and students from CM 262 Electrical Construction (a required course in the Construction Management major) will conduct observations and develop a post occupancy evaluation at two places of worship in Muncie: Islamic Center of Muncie (ICM) and Riverside United Methodist Church (RUMC).

Fall 2021: Students from IDES 225 will advance to the junior-level course IDES 325 Interior Design Studio 3 (another required course) and partner with new sophomore students from CM 261 Mechanical Construction (another required course in the Construction Management major) to redesign both ICM and RUMC. The student teams, comprised of both interior design and construction management students, will present their findings and solutions to both communities of congregants for feedback. The top two teams with the most successful design solutions, based on the congregant committee vote, will adapt their designs/findings into conference abstracts for presentation submissions to a peer-reviewed conference: The Association of Technology, Management, and Applied Engineering National Conference (November 2021).

SITE/BUILDING DESCRIPTION

This building we are reviewing is the Riverside United Brethren Church; however, most people call this building Riverside United Methodist Church. This building was built in the 1920s and is currently three stories tall today. The latest update to the building was in 2019, and it was to the main entrance. This church is merging with another church community in the city, and the Riverside United Methodist Church building will probably vacate the current building due to size and capacity. A suggestion given by the present Pastor is that the church community will transform the space into a retreat center for the city of Muncie to use. As the closet retreat space being more than an hour away, this would bring in revenue and can be used by many different communities.

The building consists of three floors, one main entrance and one side entrance. Many other doors have been boarded up that the current building users would like to open up and have open for people to come through. The new main entrance has an awning leading up to the main doors and is where people can be dropped off and walk into the building while the driver is parking the car. The side entrance was in use when there were counseling sessions on the second and third floors. The side entrance is not used because the church's patrons use the main entrance as their way in and out. There is a ramp leading up to the main hall with an elevator inside and to the right. The main stairs are also where you can access the basement as well as the first floor.

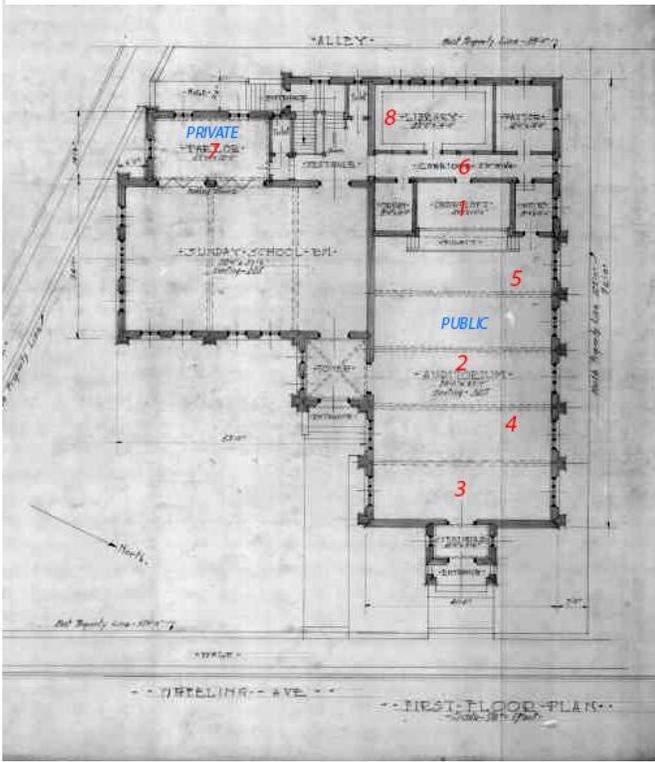
The basement level, first floor, is accessed by many stairs, including the main staircase. To the left is the education wing, where Sunday school is held. This space is not used by the main parishioners but is operated by a secondary church that uses the same area. On the right is a hall that has chairs, tables, and a stage. Beyond that, a kitchen, with a serving area like a buffet. The boiler room is also in this larger space but hidden in a corner. There are also back staircases that lead up to the first floor and the sanctuary. The damages on this floor are significant. There is a load-bearing wall that is crumbling, and that is covered by whiteboards to not show it to the public.

The main floor, the first floor, goes in two directions once reaching the top of the stairs. To the immediate right, an entryway leads to a staircase leading up to the third floor, and there is a men's bathroom right across from the stairs. The second opening is the way to the main sanctuary, where most church services are held, and another walkway around the corner where there are offices. At the end of the hall is a set of stairs leading to the choir loft above the sanctuary. There is also a lot of water damage on this floor, most noticeable in the sanctuary on the right sidewall.

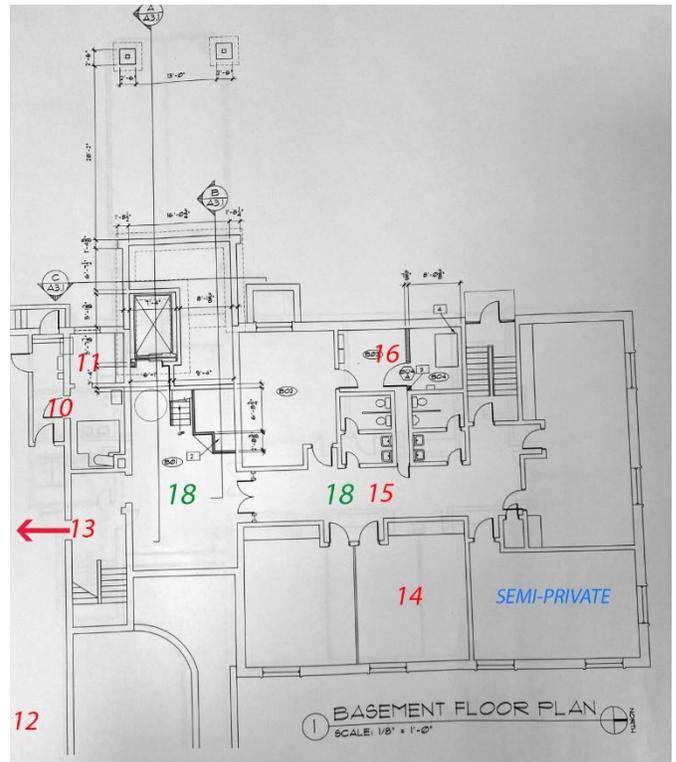
The third and final floor is the second floor of the building, and most of the storage space is located here. The exit to the left of the choir loft leads to the rest of the floor, which is a mixture of different multipurpose rooms. In the farthest room at the end of the building, a room with a tiki bar stands out among the rest of the rooms. That room is also connected to two other ones. However, there is not much noticeable that needed to be fixed; however, space seems to not be used frequently, so it is not heated in the winter or cooled in the summer to save energy.

Overall, this building has a lot more space than needed for how space is used today. The church's Pastor has an idea for changing this space into a retreat center, a possible solution. But there is a lot of damage throughout the building that would need to get fixed first.

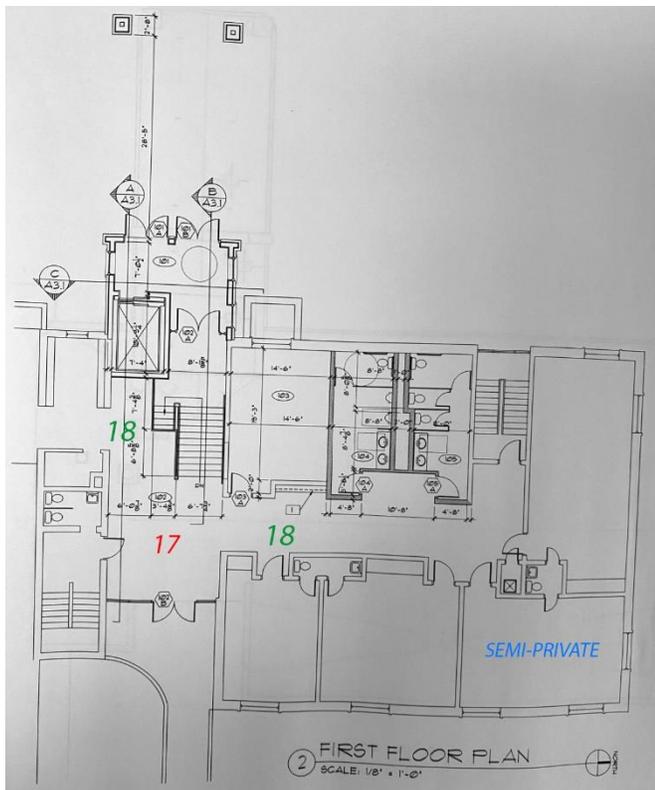
FLOOR PLANS – Noted throughout



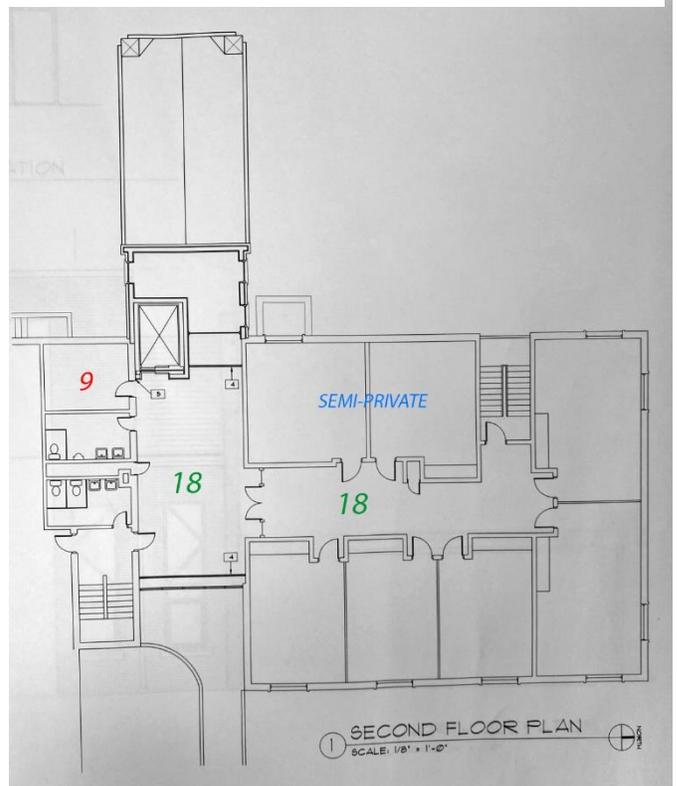
Original Floor Plan



Addition - Basement Floor Plan



Addition - First Floor Plan



Addition - Second Floor Plan

OVERALL SATISFACTION

(Average of Sections)

0 1 **2** 3 4 5

Building has a lot of construction issues and is not structurally sound. It has a lot of water damage and there is a musty smell throughout the space. Most of the building is not in use. It is too large for its current purpose. The feel of the space is very dim and temperature is not consistent throughout. The overall space is functional, but realistically needs to be improved in many of the areas.

PHYSICAL CONDITIONS

(Average of Questions)

0 1 2 **3** 5

The space looks run down and there is a lot of water damage. The education wing is cold when compared to the rest of the building. It is heated by individual units in each room. Windows are not sealed very well and let a lot of air in. There is dim lighting throughout the space and some luminaires are offset from ceiling system. The acoustics seem to be okay and doors were thick and did not allow sound to travel through.

(Reference Photos 1 – 38)

1. Temperature 0 1 2 **3** 4 5

a. Are the doors or windows sealed or protected by weather stripping?

No, windows are not sealed.

b. Are there thermostats for specific parts of the building or one overall?

Basement – heater for every room

Top Floors all on one heater

c. Does the fenestration influence the interior temperature?

Windows let cold/hot air in

d. Thermal Camera (CM)

See Thermal Camera Readings on pages 30 - 31

e. Additional Comments

Cold in the basement, except fellowship room (boiler is in that room) (see basement floor plan)

2. Lighting 0 1 2 3 4 5
(Reference Photos 27 – 32)

a. How does the fenestration contribute to lighting?

Upper levels have daylighting, basement windows have blocked views. (brick wall outside of windows).

b. Is the lighting in each area sufficient for its purpose(s)?

No, each room had dim and broken lighting. (Reference Photos 27 – 32)

c. Light Meter (CM)

Light Readings: (See floor plan notes 1-17 for approximate locations)

1. Top of sanctuary – 198 lux
2. Middle of sanctuary – 530 lux
3. Podium – 343 lux
4. First pew – 290 lux
5. Last pew – 58 lux
6. Narthex – 180 lux
7. Pastor's office – 210 lux
8. Receptionists – 259 lux
9. Storage closet – 330 lux
10. Boiler room entrance – 50 lux
11. Boiler room back section – 78 lux
12. Stage area – 460 lux
13. Kitchen – 200 lux
14. Classrooms – 180 lux
15. Classroom hallway – 250 lux
16. Custodial closet – 240 lux
17. Lobby – 350 lux

Common light levels for an older building are 100 – 300 lux. At newer buildings tend to have light levels of 500 – 1000 lux. The only light levels that seem to be on the low side are the last pew (58 lux), boiler room entrance (50 lux), and boiler room back section (78 lux).

d. Additional Comments

Lights were not centered, broken, falling out of ceiling. Large light fixtures, but did not let off a lot of light. (Reference Photos 27 – 32)

3. Noise/Acoustics 0 1 2 3 4 5

a. Do the ceiling tiles contribute to acoustics?

Yes, but many of the ceiling tiles were falling out/damaged ceilings. (Reference Photos 3, 5, 6, 7, 9, 10, 13, 26)

b. Do doors absorb sound from other areas?

Yes, doors were thick, and sound did not easily travel through them.

c. Is there a flooring material that contributes to acoustics?

Carpet in sanctuary. No other floors showed signs of acoustical benefits.

d. Are the acoustics in each area sufficient for their corresponding purpose(s)?

Acoustics were consistent throughout. Not necessarily designed for their specific purpose. Sanctuary had acoustical tiles/panels.

e. Additional Comments

Acoustics were not bad but need to be updated.

4. Air Quality 0 1 2 3 4 5

a. Are there any signs of mold?

Did not see mold, but there was a lot of water damage and mold might be in walls, ceilings, and floors. (painted over?) (Reference Photos 5, 6, 10, 13, 21, 24-26)

b. Are there functioning windows? Are there any accessories or sealants on the windows?

Sanctuary windows are operable, but many were bolted shut (especially in basement). Some storm windows on upper floor.

c. Are there any noticeable off-gases in the area?

Musty smell over entire building, gas smell in boiler room

d. Are there plants that contribute to air quality?

No; no real plants. (Reference Photos 53-62)

e. Additional Comments

Overall, there was a consistent musty smell over entire building.

5. Energy Usage 0 1 2 3 4 5

a. How often is heat/air conditioning (HVAC) on?

Basement – only on when in use, 1st floor - all the time

b. Does the church have WIFI?

Yes; it is password protected.

c. Are the electrical outlets placed in a way that is convenient for their uses (ex. TV, lighting, etc.)

For the most part, yes. There are a few instances where a cord is running up a wall or wrapped around a pipe. Closer outlets would fix this problem. (Reference Photos 12, 43)

d. Additional Comments

A lot of energy output and not a lot of energy usage. Electrical was up to code, electrical panels were not covered.

6. Water 0 1 2 3 4 5

a. What kind of plumbing is in the building?

Older plumbing fixtures/pipes, year unknown; located in paperwork of building systems, but access was not available during visit. (Reference Photos 34, 37)

b. Has the Plumbing ever been replaced?

Lower levels replaced 3 years ago, pipes freeze over in winter.

c. Does the church run off city water or well water?

City water

d. What is the water pressure?

Good

e. How is the overall water efficiency? (gallons per flush, gallons per minute, etc.)

No efficient fixtures. Has not been updated. No dripping faucets.

f. Additional Comments

A lot of small closets with pipes in them; approximately 2' wide; small entrance. Water damage throughout the entire. Building; some mold under paint. Repairable, but would be costly to repair over entire building. (Reference Photos 5, 6, 10, 13, 21, 24-26, 34, 37)

7. Waste/Recycling 0 **1** 2 3 4 5

a. Are there hand dryers or paper towels?

Paper towels

b. Does the church recycle any of their waste?

Did not see any recycling bins, only small wastebaskets.

c. Is there a dumpster nearby?

Did not see one near the church. There was one across the street on the north side. Does not appear available for church's use.

d. Additional Comments

Not much thought was put into it. No recycling in church's interior. Wastebaskets were minimal and small.

AESTHETICS

(Average of Questions)

0 1 **2** 3 4 5

The building does not seem inviting or comfortable. An occupant would not want to remain there for a long period of time. The finishes are outdated and look worn out. The furniture seems durable and is well arranged in used areas. Other areas are just used as storage for furniture. All finishes and furniture could be updated.

1. Color 0 **1** 2 3 4 5

a. What is the overall color?

No real color scheme, every floor and room had different color murals. Some areas had patches of different color (painted over). (Reference Photos 16, 18, 46, 48)

b. Is the color pleasing to eye based on color theory?

Colors looked muddy. Many colors were dark and uninviting.

c. Do the colors feel inviting?
They were dark and the space felt very empty.

d. Does the color bring light or darkness into the space?
Walls were very dark.

e. Additional Comments
No consistent color schemes.

2. Quality of Materials 0 1 2 3 4 5

a. Are all finishes and materials functioning sufficiently for their purpose(s)?
There is a lot of chipping and cracking in the materials. Overall, they still function.
(Reference Photos 3, 5, 6, 8-10, 13-19, 21-26)

b. Are there any cracks, stains, or blemishes in materials?
There are cracks, stains, and blemishes on all walls, ceilings, floors due to a lot of water damage. (Throughout entire building)

c. Is there anything broken that has yet to be fixed?
Roof still needs to be fixed. The foundation is currently being fixed. All materials need to be replenished.

d. Additional Comments
All materials need upgraded and/or replaced. Materials last renovated 20 years ago.

3. Durability 0 1 2 3 4 5

a. How does the building hold up in different seasons?
Winter cold air seeps in, summer hot air seeps in. One entrance has a lot of leaks during wet seasons (causing concrete to rot below in basement)

b. Are there any leaks? Does bad weather effect the interior's functionality?
The roof leaks in some places. The entrance that is causing the concrete below to rot (wall of glazing causing leaks)

c. How old are the finishes and how have they held up?

Finishes appear to be old. There is a lot of wear and tear.

d. Additional Comments

Furniture quality is upheld, but materials and finishes are deteriorating.

4. Finishes 0 1 2 3 4 5

a. How long has it been since the space was renovated?

20 years. Education wing was added in 1966.

b. Have the finishes on the furniture been worn down?

Wood stain of pews and chairs had some chips and fading. (Reference Photo 8)

c. Have flooring materials been worn down in any way?

Some carpet was fading. In the basement the carpet had no carpet padding. There are carpet patches in some areas. Some stains on floors. (Reference Photo 48)

d. Are there any issues with ceiling tiles?

Water damage (Reference Photos 5, 6, 10, 13, 21, 25, 26)

e. Are there any issues with wall finishes?

Water damage (Reference Photos 19, 24, 25, 26)

f. Additional Comments

A lot of finishes have water damage and fading.

5. Furniture/Equipment 0 1 2 3 4 5

a. Does the furniture fit into the space?

Some furniture does, but a lot of furniture is large for the space it is in. The pews are positioned very close together. Education wing had mostly child-sized furniture.

b. Is the furniture outdated/does it need updated?

No, all furniture is in good condition. Some upholstery could be replaced.

c. Are any furniture pieces accessible?

The pews are not accessible, but there are chairs in one pew row. No place for motorized wheelchairs to go.

d. Additional Comments

All furniture is in good condition but is not arranged in the best way.

SPACE

(Average of Questions)

0 1 2 3 4 5

The space is too large for its original purpose, but the entire space is planning to be renovated. There is too much space that is not in use. The building overall has good circulation, but the space between the pews is very narrow. Layouts in used spaces make sense.

1. Private, Semi-Private, Public 0 1 2 3 4 5

(Reference Floor Plan Notes [PUBLIC](#), [SEMI-PRIVATE](#), [PRIVATE](#))

Most spaces are semi-private; sanctuary and fellowship hall are public, offices are private.

a. Are public spaces big enough to fit their purpose?

Yes, but furniture obstructs flow. Most of the spaces are not being used, so furniture layout is not a priority in the current design.

b. Does each space suit the amount of people needed for each space?

Some spaces are too large, and some are too small. Fellowship hall is large and not many people occupy it. Restrooms are small and are not handicap accessible. Congregation overall is very small and rooms are not being used to their full potential because there are not enough people using them.

c. Additional Comments

Space is not used to its full potential. Many spaces are not used.

2. Flow of Traffic 0 1 2 3 4 5

a. Comments

Hallways were large enough for two lanes, but it is difficult to navigate through the space. It was difficult to initially understand where everything was located. Some signs could help. (See Floor Plan Note [18](#))

3. Layout 0 1 **2** 3 4 5

a. Is everything located for full functionality of the space?

A lot of spaces are not being used.

b. Are there any walls that need to be added or removed to increase layout functionality?

Mechanical/Utility (pipes) closets need to have more space (walls removed/expanded)

c. Additional Comments

Building is too large for its purpose; spaces are not being used.

4. Accessibility 0 **1** 2 3 4 5

a. Is the entrance accessible to everyone?

One accessible entrance (push buttons). Elevator at entrance. (Reference Photo 2)

b. Is there enough turn-around space throughout the area?

In almost every room other than kitchen and restrooms.

c. Are the bathrooms fully accessible?

No; One women's restroom had a 24" door. No turn around space in bathrooms. (Reference Photos 39, 40, 42)

d. Are the furniture pieces accessible?

The pews are not accessible. There are moveable chairs.

a. Is someone, who is not able-bodied, able to get onto the pulpit?

No there are only stairs leading up the pulpit.

e. Additional Comments

The space is not fully accessible. There is an elevator and one accessible restroom.

5. Wayfinding 0 1 2 3 4 5

a. Is the layout easy to understand?

As someone who had not been in the church, the layout was confusing to navigate through.

b. Are there signs leading people to other areas of the church?

Door/room numbers. No signs pointing towards sanctuary and education wing.

c. If yes, are the signs easily seen?

Some signs were high up on the wall. Not easily noticeable. Exit signs lights were flickering.

d. Additional Comments

Lighting helped with wayfinding. Areas were separated.

6. Safety 0 1 2 3 4 5

a. Are there any safety measures or regulations during emergencies?

Windows were not operable. No exit doors in basement. Many entrances were boarded up. Some fire extinguishers.

b. Are outlets covered when not being used?

Electrical panels were not covered. No covers over outlets (needed in children's rooms)

c. Are there any sharp corners?

No

d. Do stairs/ramps have handrails?

Yes, but there are very steep.

e. Are floors slip resistant?

Sanctuary floors are slip resistant, but bathrooms and education wing were not.

f. Additional Comments

The building is falling apart (concrete wall near collapse). (Reference Photo 14)

ERGONOMICS

(Average of Questions)

0 1 2 **3** 4 5

Elements of the space were not ergonomic. Stairs were steep and railing were short. Some doors were narrow (24" restroom door). Carpet was raised in some areas causing a tripping hazard. Pews were not accessible, and most bathrooms were not accessible. The children's area in the education wing was inclusive with smaller furniture and smaller plumbing fixtures. Some furniture could also be made more comfortable with a more angle back.

1. Usability 0 1 2 **3** 4 5

a. Is the furniture usable by everyone in the space?

The pews are not accessible.

b. Is everything being used?

No, most furniture and space in basement and upper floor are not being used.

c. Does the Sunday School area have furniture useable for children?

Yes, there are inclusive tables, chairs, and plumbing fixtures. (Reference Photo 41)

d. Additional Comments

None

2. Comfort 0 1 2 **3** 4 5

a. Are the pews/seating areas comfortable?

They need more cushion, but not bad.

b. Are the backrests at the correct angle for comfort?

The pew backs are a little steep.

c. Are the seats too low or too high?

No

d. Additional Comments

Overall, the pews need to be spread out (more leg room) and could be improved for comfort.

3. Inclusivity 0 1 2 **3** 4 5

b. Are the bathroom stalls large enough for everyone?

Stalls were small and most bathrooms are not accessible. (Reference Photos 39, 40, 42)

c. Are there changing tables in all bathrooms?

No; there is a changing table in one room in the education wing.

d. Are there places that are inclusive to children?

Yes, the education wing had furniture and restrooms inclusive for children. (Reference Photo 41)

e. Are the chairs easy to get to?

Some chairs were easy to get to. Some rooms had chairs in the corners. Many rooms were not in use and did not have a clear set up of furniture.

f. Additional Comments

Little thought, other than children's areas, was put into it.

BIOPHILIA

(Overall Rating)

0 1 **2** 3 4 5

There were some fake plants throughout the entire space. The plants were not dusted regularly. In the education wing they did have a mural that implied nature throughout the space. The stained glass. The stained-glass windows also let light in, but the views could be better. This could be done through an updated landscape.

(Reference Photos 53-62)

a. Are there any plants?

Painted plants on murals, no real plants, minimal fake plants (Reference Photos 53-62)

b. If so, are they real or fake?

Fake in a couple areas of the church.

c. Do the finishes incorporate any aspects of nature?

Painted murals, wooden pews, coffee bar had Hawaiian theme. (Reference Photos 52, 54)

d. Are there any natural or sustainable materials? (ex. Wood)

Wooden pews/furniture, a lot of concrete in the church

e. Are there any windows that contribute to an outside view? (clear or stained-glass windows)

Stained glass windows in sanctuary, windows in upper floors had views, basement windows had a wall obstructing view. Some windows had wooden panels covering windows.

f. Additional Comments

Real plants would help with biophilia and air quality.

MISCELLANEOUS

1. What issues are there in the space?

Most spaces are not being used, a lot of areas are falling apart (water damage, rotting concrete, water leaks, etc.)

2. What is requested to be changed in the space?

To make everything up to code and ADA compliant. Structural issues need fixed.

3. Who should benefit from the space?

Church congregation, community, food bank, Ball State University

4. What activities/experiences happen with each area?

Education wing – children classes/Sunday School, boy scout activities.

Auditorium/ Sanctuary – two church services

Upper Floor – Used to be a counseling center. Now it is not used.

LIST OF RECOMMENDATIONS

Overall Recommendations are listed in order of high priority – low priority.

Retreat Center Recommendations are if the church gets converted into a retreat center.

OVERALL

1. Repair non structurally sound wall (water leakage and concrete damage)
2. Replace roof
3. Replace component with water damage
4. Make all restrooms ADA compliant
5. Finding a way to repurpose unused spaces.
6. Replace/Redesign lighting
7. Insulate windows (operable windows)
8. Cover electrical panels
9. In the basement the view is of a brick wall (make view better)
10. Add more plants, curves (biophilic elements)
11. Open up mechanical closets with pipes in order to access for repair

RETREAT CENTER

1. Make the Education Wing dorms for 4-6 people per room. (Bunk beds)
2. Add washer and dryer room (basement)
3. Add showers (basement)
4. Make main sanctuary into a concert area.
5. Add a recreational space
6. Add counseling and office rooms.
7. Add conference rooms

QUESTIONNAIRE

For question 1-11 please rate the following categories from 0-5 for every area of the church. 0 being the lowest rating and 5 being the highest.

1. Overall Satisfaction

0 1 2 3 4 5

2. Air Quality

Main Sanctuary - 1st Floor

0 1 2 3 4 5

Balcony and Storage Areas – 2nd Floor

0 1 2 3 4 5

Education Wing – 1st Floor

0 1 2 3 4 5

Education Wing - Basement

0 1 2 3 4 5

Fellowship Hall and Kitchen - Basement

0 1 2 3 4 5

Counseling Center – 2nd Floor

0 1 2 3 4 5

3. Lighting

Main Sanctuary - 1st Floor

0 1 2 3 4 5

Balcony and Storage Areas – 2nd Floor

0 1 2 3 4 5

Education Wing – 1st Floor

0 1 2 3 4 5

Education Wing - Basement

0 1 2 3 4 5

Fellowship Hall and Kitchen - Basement

0 1 2 3 4 5

Counseling Center – 2nd Floor

0 1 2 3 4 5

4. Temperature

Main Sanctuary - 1st Floor

0 1 2 3 4 5

Balcony and Storage Areas – 2nd Floor

0 1 2 3 4 5

Education Wing – 1st Floor

0 1 2 3 4 5

Education Wing - Basement

0 1 2 3 4 5

Fellowship Hall and Kitchen - Basement

0 1 2 3 4 5

Counseling Center – 2nd Floor

0 1 2 3 4 5

5. Noise/Acoustics

Main Sanctuary - 1 st Floor					
0	1	2	3	4	5
Balcony and Storage Areas – 2 nd Floor					
0	1	2	3	4	5
Education Wing – 1 st Floor					
0	1	2	3	4	5
Education Wing - Basement					
0	1	2	3	4	5
Fellowship Hall and Kitchen - Basement					
0	1	2	3	4	5
Counseling Center – 2 nd Floor					
0	1	2	3	4	5

6. Waste/Recycling

Main Sanctuary - 1 st Floor					
0	1	2	3	4	5
Balcony and Storage Areas – 2 nd Floor					
0	1	2	3	4	5
Education Wing – 1 st Floor					
0	1	2	3	4	5
Education Wing - Basement					
0	1	2	3	4	5
Fellowship Hall and Kitchen - Basement					
0	1	2	3	4	5
Counseling Center – 2 nd Floor					
0	1	2	3	4	5

7. Water Pressure

Main Sanctuary - 1 st Floor					
0	1	2	3	4	5
Balcony and Storage Areas – 2 nd Floor					
0	1	2	3	4	5
Education Wing – 1 st Floor					
0	1	2	3	4	5
Education Wing - Basement					
0	1	2	3	4	5
Fellowship Hall and Kitchen - Basement					
0	1	2	3	4	5
Counseling Center – 2 nd Floor					
0	1	2	3	4	5

8. Accessibility

Main Sanctuary - 1 st Floor					
0	1	2	3	4	5
Balcony and Storage Areas – 2 nd Floor					
0	1	2	3	4	5
Education Wing – 1 st Floor					
0	1	2	3	4	5

Education Wing - Basement					
0	1	2	3	4	5
Fellowship Hall and Kitchen - Basement					
0	1	2	3	4	5
Counseling Center – 2 nd Floor					
0	1	2	3	4	5

9. Furniture Comfort and Usage

Main Sanctuary - 1 st Floor					
0	1	2	3	4	5
Balcony and Storage Areas – 2 nd Floor					
0	1	2	3	4	5
Education Wing – 1 st Floor					
0	1	2	3	4	5
Education Wing - Basement					
0	1	2	3	4	5
Fellowship Hall and Kitchen - Basement					
0	1	2	3	4	5
Counseling Center – 2 nd Floor					
0	1	2	3	4	5

10. Materials and Finishes

Main Sanctuary - 1 st Floor					
0	1	2	3	4	5
Balcony and Storage Areas – 2 nd Floor					
0	1	2	3	4	5
Education Wing – 1 st Floor					
0	1	2	3	4	5
Education Wing - Basement					
0	1	2	3	4	5
Fellowship Hall and Kitchen - Basement					
0	1	2	3	4	5
Counseling Center – 2 nd Floor					
0	1	2	3	4	5

11. Usage of Space

Main Sanctuary - 1 st Floor					
0	1	2	3	4	5
Balcony and Storage Areas – 2 nd Floor					
0	1	2	3	4	5
Education Wing – 1 st Floor					
0	1	2	3	4	5
Education Wing - Basement					
0	1	2	3	4	5
Fellowship Hall and Kitchen - Basement					
0	1	2	3	4	5
Counseling Center – 2 nd Floor					
0	1	2	3	4	5

For questions 12 – 20 please write your responses and recommendations below each question.

12. In your opinion, what should be the top five priorities of change? (i.e. structural, layout, etc.)

13. What specific areas would you like to be transformed to make the space a retreat center? (i.e. Education rooms turned into dorms)

14. Would any spaces need to be larger to meet their purpose?

15. Would you like to see more nature in the interior? What specific examples? (i.e. low-maintenance plants, wooden accents, etc.)

16. What features would you like to see stay in the space? (i.e. stained glass windows, painted murals, landscaping, etc.)

17. What do you envision an outdoor pray walk/meditation area being? Can provide multiple ideas (i.e. stone walkways, plants, trees, etc.)

18. If the space were to be transformed into a retreat center, would the parking lot and entrances need to be expanded? Would signs need to be added?

19. What kind of landscaping would you like to see around the building?

20. What ideas do you have to market the retreat center and bring more people to it? (i.e. signs throughout Muncie, fliers, brochures, etc.)

PHOTO GALLERY



1 - Counseling center entrance



2 - Accessible entrance



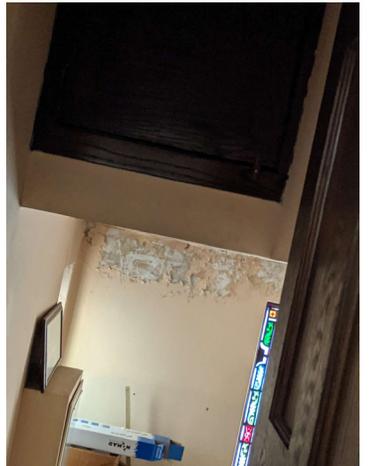
3 - Cracked ceiling tile



4 - Damaged pipe



5 - Ceiling - water damage



6 - Ceiling water damage



7 - Damaged ceiling



8 - Balcony seating - fading



10 - Water damage around ventilation



9 - Paint chipping on ceiling



11 - Pipes on ceiling



12 - Cords wrapped around pipes



13 - Water damage on ceiling and wall



14 - Rotting concrete wall



15 - Stairwell with cracked wall



16 - Patched paint on wall



17 - Paint chipping on wall



18 - Poorly painted wall (spots on ceiling)



20 - Paint chipping on pipe



19 - Damaged wall



21 - Water damage in sanctuary



22 - Damaged threshold



23 - Curtain rod - dusk build-up



24 - Water damage in storage area



25 - Water damage on trim



26 - Water damage and paint chipping on wall and ceiling



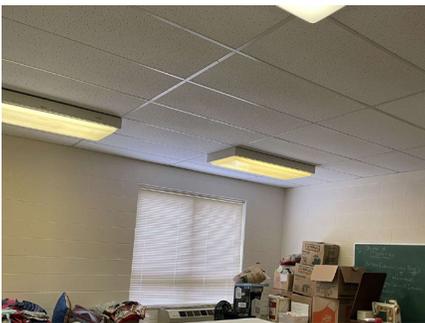
27 - Broken luminaires, burnt-out lamps



28 - Dim, yellow lighting



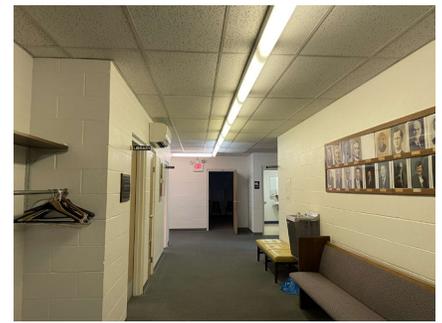
29 - Lighting in sanctuary



30 - Dim, inconsistent lighting



31 - Luminaire with missing cover



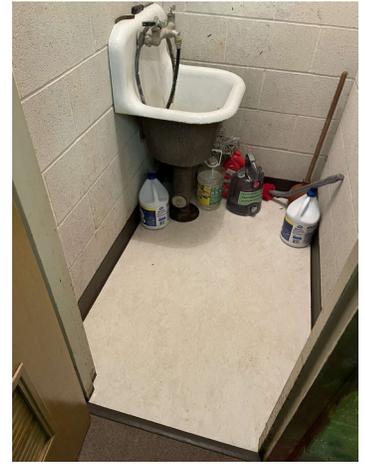
32 - Dim lighting in hallway



33 - Mechanical closet, generators



34 - Mechanical closet, pipes



35 - Mechanical closet, mop sink



36 - Boiler room entrance



37 - Mechanical closet, pipes



38 - Boiler room



39 - Restroom stall



40 - Restroom 1



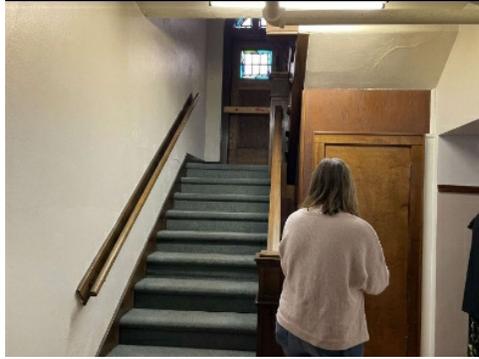
42 - Restroom 2



41 - Children's restroom



43 - Cords going down wall



44 - Steep stairwell



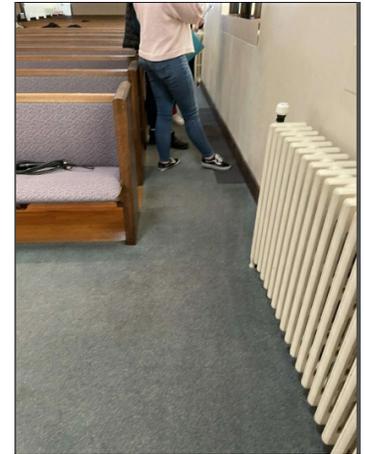
45 - Kitchenette



47 - Kitchen



46 - Sanctuary



48 - Patched carpet in sanctuary



50 - Fellowship hall



49 - Media room - counseling center



52 - Coffee bar - counseling center



51 - Painted murals in hallway



53 - Biophilia - flower vase



54 - Biophilia - painted mural



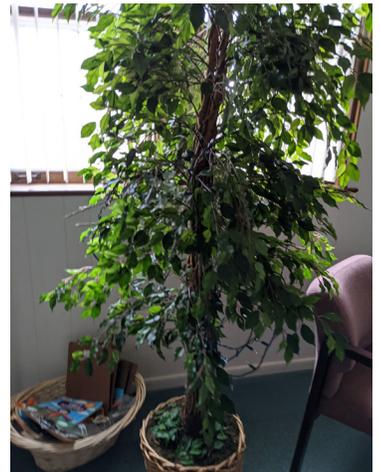
55 - Biophilia - flower vases



56 - Biophilia - flower vases



57 - Biophilia - tree and plants



58 - Biophilia - tree



60 - Biophilia - painted divider, tree



59 - Biophilia - tree



62 - Biophilia - window decoration, butterfly



61 - Biophilia - flower bouquet

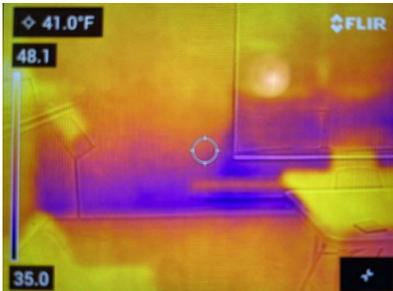
THERMAL CAMERA READINGS

(Noted are the ones that need attention)

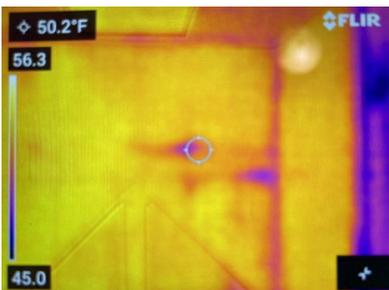
Thermal camera readings are used to measure temperature within a space to better understand where insulation and sealant could be improved. It is also used to understand the effectiveness of heating and cooling systems. The darker, more purple/blue color represents colder areas and the orange/yellow color represents warmer areas.



TC-1 - This is a garage type door in the basement next to the boiler room, showing a large amount of heat being lost through poor sealing and no insulation on the door. Although this room does not necessarily need heated it will lose common room heat if the door to the boiler room is left open



TC-4 - This is another angle of TC-3 showing the extent of the damage.



TC-7



TC-2 - Garage door near boiler room - poorly sealed, losing a lot of heat



TC-5



TC-8



TC-9



TC-3 - Heat is lost through the baseline of the wall this could be due to many things including poor insulation. This is not a single occurrence many rooms have one or multiple walls with this issue costing the church money in heating and cooling during the summer.



TC-6 - The blue color of the windows isn't necessarily an issue because heat will inevitably be lost through this glass. Although, this thermal reading does make it apparent just how much heat is lost through these windows. It may not be visually appealing but replacing these windows with a wall the church would save money on heating and cooling.



TC-10



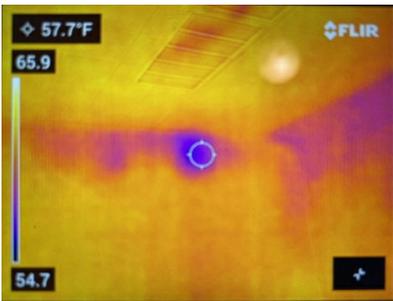
TC-11



TC-12



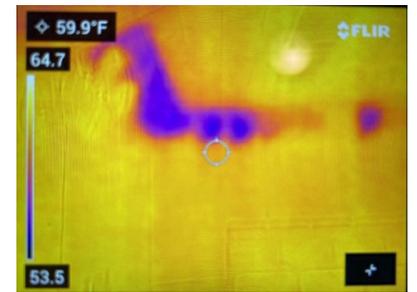
TC-13 - With a closer view of the corner, it becomes clearer that there is water damage in the wall. This should be addressed, or it will lead to more deterioration and a more costly fix in the future.



TC-14



TC-15 - More missing insulation in an upstairs storage room. Renovation becomes more of a necessary decision throughout the process locating multiple rooms losing heat and driving the heating and cooling bills up.



TC-16



TC-17 - Another upstairs storage room shows extensive insulation damage and possible water damage down the corner of the wall.



TC-17



TC-18



TC-19



TC-20



TC-21



TC-22



TC-23



TC-24 - The heat signature in the middle is inside the circuit breaker in the boiler room this indicates over current. This should be looked at in case its driving the bill up with unnecessary power usage



TC-25



TC-26