ADAPTABILITY AND FLEXIBILITY IN THE CHURCH
ARCHITECTURAL THESIS
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PROJECT FOR:
JOHN KNOX PRESBYTERIAN CHURCH
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ADAPTABILITY AND FLEXIBILITY IN THE CHURCH
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Juli

This year of study is dedicated to all my friends,
without them I would not have made it.

ADAPTABILITY AND FLEXIBILITY IN THE CHURCH
Adaptable and flexible space can enhance an environment. To provide for multiple uses it is necessary that space be flexible and/or adaptable. Flexible space can adjust to functions instead of functions adjusting to space. In many cases today the church is used for far more than just weekly worship. It is used for both secular and religious functions. The advocacy of a flexible building is not just an outcome of economic necessity, but is based upon the fundamental principles of theology, liturgy, and morality. Secular and sacred can be united in one space and adaptability and flexibility begin to be conveyed through the church by its ability to unite the secular and sacred. This project is for a Presbyterian church in Indianapolis, Indiana faced with integrating multiple uses into the church.
What is important as a church building today? Two contrasting views are considered.

1) The church is a place of worship. It should look and feel like a church. The church is not a meeting hall transformed into whatever occasion presented, but a place of continual sacred worship. The sanctuary houses God's presence and should be maintained solely as a sacred place.

2) The church is a part of the community and works as both a symbol and functional structure. The church can provide space to the community that would otherwise be unavailable. It should respond to the needs of the people in both the congregation and community.

The church building is, however, the house of God's people rather than the house of God. The world is God's house. There is no separation of secular and sacred. Everything is sacred and secular because God is everywhere. One may therefore argue that activity other than cultic activity may take place in the same space that is used for liturgical acts.

The notion which allows for the provision of space for cultic and secular events is the basis of my thesis. The advocacy of a flexible building is not just an outcome of economic necessity, but is based upon the fundamental principles of theology, liturgy, and morality.
Adaptable and flexible space can enhance an environment. To provide for multiple uses it is necessary that space be flexible and/or adaptable. Flexible space can adjust to functions instead of functions adjusting to space. By providing for multiple functions, space may get maximum use, thus reducing need for additional space and increasing economic feasibility by reducing costs.

In many cases the church is used for far more than just weekly worship. It is used for both secular and religious functions and provides facilities for such community uses as day care, drama groups, alcohol and drug rehabilitation programs, wedding receptions, and even concerts.

For some Christians, however, a separation between the secular and sacred exists. For those, a portion or all of the church building may be reserved for particular "religious" functions. But for other Christians, there is no separation between secular and sacred. God is found in the people, not the building. Therefore, God is found wherever there are people. Without a separation between secular and sacred events, the two begin to be united into one space. The church building becomes a part of the church community as well as the community at large. And adaptability and flexibility begin to be conveyed through the church by its ability to unite the secular and sacred.
Although the concept of flexible space in the church has been around for some time, it is still not a popular approach. Church buildings that are too large or utilized sparingly are detrimental to effective ministry. Single use spaces that are relatively expensive to build and costly to maintain siphon funds and energy away from people-centered programs. Designing for multiple use may keep the church from overbuilding and allow a larger portion of the budget to be used for Christian ministries.

Though, in this thesis, the main concern is flexibility and adaptability, the building is still a church first and must, above all, function as a church, a place for worship. Because the sanctuary is generally the largest and least used space in the church, it is the most costly to build and maintain. Therefore it is the space which should be considered most carefully in conveying flexibility and adaptability and the Presbyterian doctrines and beliefs. The following research focuses on the sanctuary.
INTRODUCTION

This research project deals with a few basic seating arrangements in a field of many possibilities. The importance of the church is not only conveyed in its architecture, but in the people who make up the church. The people are the fabric of the church and their arrangement can either reinforce or take away from the religious ceremonies. This reinforcement ideally takes place through the findings of the study. This study deals more specifically with how the public perceives seating arrangements relating to community, fellowship, and space enhancement.

Questions dealing with the study are: How do different seating arrangements enhance the environment? Which seating arrangements create a more friendly environment? Can some seating arrangements give a more spiritual feeling of worship than others? And do certain seating arrangements have more flexibility in terms of religious ceremonies than others?

With these questions in mind, three hypotheses have been formed.

[1] The seating arrangement of the church can create a greater sense of fellowship within the church and its functions.

[2] The seating arrangement of the church instills a greater sense of community among various sized groups.

[3] The seating arrangement of the church can enhance the environment and its setting.

The research involves both the use of surveys and observations in order to obtain the ideal seating arrangement for religious ceremonies with the hypotheses in mind. The surveys were distributed to 40 people of various ages and religious backgrounds, the majority of them being college age students.

Observations were done at three locations - Eero Saarinen's North Christian Church and Eliel Saarinen's Tabernacle Church of Christ, both located in Columbus, Indiana and Frank Lloyd Wright's Unity Temple in Oak Park, Illinois.
TABERNACLE CHURCH OF CHRIST
Columbus, Indiana

Architect: Eliel and Eero Saarinen

This plan dictates a formal traditional type seating with one main aisle and two side aisles, all being fixed seating.

UNITY TEMPLE
Oak Park, Illinois

Architect: Frank Lloyd Wright

This plan dictates a formal nontraditional type seating with a main aisle and several other cross aisles. The seating is all fixed seating.

NORTH CHRISTIAN CHURCH
Columbus, Indiana

Architect: Eero Saarinen

This plan dictates a formal nontraditional type seating with aisles radiating from the center of the plan, all being fixed seating.
Direction of focus:

The main overall direction of focus is toward the communion table, however if one is seated on the side of the longer pews (left side), then the direction of focus is toward the speaker. There is no feeling of being close to the speaker unless one is sitting towards the front of the space.

Direction of focus:

The main direction of focus is toward the speaker, although if one is sitting on the sides, then the direction of focus is not as clear. There is more of a feeling of being close to the speaker and also a feeling of group worship.

Direction of focus:

The main direction of focus is towards the communion table and the speaker really becomes a secondary element, not being a primary focus at all. The plan does offer a sense of being close, not necessarily to the speaker but rather to the main focus which in this instance, is an utmost ritual in this certain denomination.
Seating plan:

This seating plan consists of two major blocks of seating. The seating plan is good for a large group only and does not lend itself to anything else. A small group might not feel as comfortable with this seating arrangement because there are no small niches for them. However, if they were seated in this plan, they would not have the opportunity to be able to look around to see all the empty space (if they were seated toward the front).

Seating plan:

This seating plan consists of two blocks of seating on the main floor and then several blocks of seating just off of the main floor and in a balcony above that. The seating plan is good for a large group, as well as lending itself to a smaller group. A smaller group might be able to see the empty seats, but the compactness of the seating might make this seem more tolerable. The compactness allows for more seats to go in the space with some degree of diversity which makes it more interesting.

Seating plan:

This seating plan consists of seven blocks of seating (one of these is for the choir) and is at a slope for better visual control. The seating accommodates a large group and has the possibility of serving a small group as well. The small group does have visual access to the empty seats, however the space is not that large that it would seem to matter. This plan also has a compactness (an arena type form) that allows for more seating in an interesting form.
Flexible uses:

- speaker: ++
- worship: ++
- concert: ++
- film: +
- wedding: +++

- drama: ++
- participatory: ++
- bible study: ++
- funeral: ++
- song: +++

This traditional type seating has the possibility of being pretty flexible and being able to accommodate several different activities without any rearrangement of the seating.

Flexible uses:

- speaker: ++
- worship: ++
- concert: ++
- film: +
- wedding: ++

- drama: ++
- participatory: ++
- bible study: ++
- funeral: ++
- song: +++

This seating plan offers a certain amount of flexibility, however it is limited to a certain degree. One might be a little uncomfortable in them sitting on the side and having to turn their head in the direction for an extended amount of time.

Flexible uses:

- speaker: -
- worship: -
- concert: -
- film: -
- wedding: +

- drama: ++
- participatory: ++
- bible study: ++
- funeral: ++
- song: +++

This seating plan has a limited amount of flexibility but is very good for certain functions. It is more like an arena where the activity takes place in the center and can be easily seen in the round. Otherwise, one may be forced to sit in an awkward position to view the event.

The following is a sample of the questionnaire and a tabulation of the results.
QUESTIONNAIRE

This is a survey dealing with the design of church seating. There are many different ways of planning seating and the following are four basic arrangements in a field of many possibilities. Circle the appropriate answer and feel free to make any comments.

Plans:

A. 
B. 
C. 
D. 

1. Do you prefer a more formal (traditional) seating arrangement or a more informal (modern) seating arrangement?
   - Formal [ ]
   - Informal [ ]

2. Would you prefer seating that can be moved or seating that remains fixed?
   - Moved [ ]
   - Fixed [ ]

3. Which plan do you feel could relate best to different sized groups? Example: 50-40 people could feel comfortable in a space that could hold 300-400 people.
   - A. [ ]
   - B. [ ]
   - C. [ ]

4. In which of the seating arrangements do you feel more like part of the group?
   - A. [ ]
   - B. [ ]
   - C. [ ]
(5) What do you like about seating plan A:

- Sense of Fellowship/Community
- Sense of Community: Large or Small
- It enhances the space
- Adaptability of different ceremonies, weddings, drama, concerts

(6) Seating plan B:

- Sense of Fellowship/Community
- Sense of Community: Large or Small
- It enhances the space
- Adaptability of different ceremonies, weddings, drama, concerts

(7) Seating plan C:

- Sense of Fellowship/Community
- Sense of Community: Large or Small
- It enhances the space
- Adaptability of different ceremonies, weddings, drama, concerts

(8) Seating plan D:

- Sense of Fellowship/Community
- Sense of Community: Large or Small
- It enhances the space
- Adaptability of different ceremonies, weddings, drama, concerts

(9) Which seating arrangement do you think enhances or could enhance the environment the most:

- A
- B
- C
- D

(10) How does it enhance the environment:

- By making it more exciting
- By creating unity within the group
- Other:

(11) Which seating arrangement creates a more friendly atmosphere:

- A
- B
- C
- D

(12) Other:
(2) Does any of the seating arrangements give a more spiritual feeling of worship than any other?
   □ Yes □ No
   [Blank]

(3) If yes, which one or ones?
   □ A. □ B. □ C. □ D. □
   Why?
   [Blank]

(4) In which of these plans would you feel more comfortable sitting alone in a group?
   □ A. □ B. □ C. □ D. □
   Why?
   [Blank]

(5) In which of these plans would you feel more comfortable sitting with a group in a group?
   □ A. □ B. □ C. □ D. □
   Why?
   [Blank]

(6) Which of these plans has the best direction of focus:
   i.e., toward a speaker?
   □ A. □ B. □ C. □ D. □

(7) Which of these plans has a feeling of being close to a speaker?
   □ A. □ B. □ C. □ D. □

(8) In Plan A, where would you most like to sit?
   (Please circle the area of preference on the plans on page 1)

(9) In Plan B.

(10) In Plan C.

(11) In Plan D.

(12) Plan A would best accommodate:
   □ Speaker □ Worship □ Concert □ Film
   □ Wedding □ Drama □ Participatory Bible Study
   □ Funeral □ Congregational Singing

(13) Plan B would best accommodate:
   □ Speaker □ Worship □ Concert □ Film
   □ Wedding □ Drama □ Participatory Bible Study
   □ Funeral □ Congregational Singing

(14) Plan C would best accommodate:
   □ Speaker □ Worship □ Concert □ Film
   □ Wedding □ Drama □ Participatory Bible Study
   □ Funeral □ Congregational Singing

(15) Plan D would best accommodate:
   □ Speaker □ Worship □ Concert □ Film
   □ Wedding □ Drama □ Participatory Bible Study
   □ Funeral □ Congregational Singing
Comments - common replies

Which seating arrangement enhances the environment the most and how does it enhance the environment?

B & C - They embrace the altar and draw the congregation in closer
C - More variety available
B - Best audience viewing
D - Circular form
C - Allows for different types of activity
C - Flexibility

Question 13 - Which seating arrangement gives a more spiritual feeling of worship?

Plan A
Because it is more traditional and it is what I'm used to.
Focused toward speaker

Plan B
Embraces altar
Focused toward speaker

Plan C
Focus inward - spirituality

Plan D
Because of fellowship, unity

Focus inward - spirituality

Question 14 - In which of these plans would you feel comfortable sitting alone in a group?

Plan A
Sit in rear without being seen.
Less eye contact with others.
Not visible to others, can only see your back

Plan B
Same as above

Plan C
Lets person see crowd, crowd see person
Brings into community

Plan D
Lets person see crowd, crowd see person

Question 15 - In which of these plans would you feel comfortable sitting with a group in a group?

Any of the plans, security of a familiar group.

Plan B
You can see people on each side of you
Contact - relation with people next to you

Plan C
Separates into groups such as families

Plan D
Enhances communication
Contact with others next to you

General comments

Scheme C is the best for communal worship, Scheme D has some subtle niceties, but I don’t care for the potential to have the minister’s back or worship leader’s back to me.

Scheme B - speaker to family, I prefer this one, eyes are focused on speaker, Scheme D - speaker always has his back to someone, united as a family, sing to each other, I prefer this one.

Scheme C - three chunks of cubes are almost like 3 separate identities, clicks what-ever. Scheme D - sense of family.

Potential for both formal or informal seating, fixed and movable seating.

Fixed seating conveys a feeling of permanence, stability. Scheme D - to distressing having people face you, uncomfortable. People create a friendly atmosphere. In scheme C & D you’re looking at the side and back which isn’t good.

Scheme B is an improved version of scheme A.

A church is very, very different from all other structures as Christ is the Architect and the most important element is "people". They are the enhancement, the beauty, the center point as they make the "gathered" and the "scattered" church. The world designs an empty dead building; the Christian designs a full house alive with human beings as the textures, the building blocks, the murals, and the individualities and very fiber of the structure. Obtain that glorious goal and you’ve got a church.

Moveable seating tends to create bottlenecks within the rows.
Scheme A - small group may be to far away
Scheme B - could accommodate larger group because it wraps
Scheme C - a large group, a small group might feel empty
Scheme D - a small - medium group, not large because it would be like a sporting event.
Scheme B embraces the altar but does not engulf it
I really dislike plan D because the minister’s back would be turned to the congregation and it isn’t very flexible at all. People would spend more time staring at each other than paying attention to what was actually going on.
version of plan A. Like plan A, it was popular because of its adaptability and because of a single person's anonymity in a large group, although some began to sense a relationship to those around them.

Because this plan still has the traditional feeling of plan A and creates a more directional focus, it was consistently chosen as a medium between all questions. People felt that this plan related better to different sized groups for an undetermined reason, therefore it can be assumed this is an emotional response rather than an intellectual response.

Plan C:
This plan received high responses to both community and fellowship, but was not considered to instill a spiritual sense in the space. However, its highest response to accommodations was events dealing with the congregation, such as worship, participatory bible study, and congregational singing. This relates back to the fact that this is a non-traditional religious arrangement.

This plan was believed to enhance the environment and has the possibility of creating a more exciting space than plans A & B. It seems to instill a sense of

Plan A:
The high number of responses to this plan appear to mainly be spawned by the fact that it is the most traditional and familiar plan for those associating it to religious space.

This plan is popular because it is adaptable to many different functions, but the vast majority of those surveyed did not feel it did much to instill a sense of community, fellowship or enhancement of the space. Because the person feels quite anonymous in a large group, people would prefer to sit in this scheme when alone. This plan does not force contact with others.

When speaking of the spiritual qualities of the seating arrangements, most people relate to this scheme because it is traditional and it is what they're used to. It appears that most people can't grasp what exactly causes a space to be spiritual and therefore they will relate to a space that they are already familiar with.

Plan B:
Many people thought that this plan was an improved
community by segregating the congregation into three smaller groups but loses some of its identity of unity. Some felt it did not utilize the space to its fullest potential because of the emptiness it created.

Plan D:
This plan had the highest response in terms of community, sense of fellowship, and enhancement of the environment. The relation of the congregation to the speaker was much more intimate which might lead to the high response towards friendliness within the arrangement. Again, there was a high response to congregational accommodations, such as participatory bible study, and congregational singing, but there was a low response to the arrangements spirituality. This is due to the non-traditional arrangement.

To some the inward focus created a sense of spirituality. The plan allows for a relation to the group because of its increased eye contact; however, it lacks in flexibility. People did not like the potential to look at a speaker’s back.

Overall Conclusions:

Familiarity and tradition seemed to have a great effect on the arrangement in terms of spirituality. Because plan A is a traditional arrangement and plan B a modification of that, these two plans were related to the spiritual sense the most. However, when speaking of group activities, unity, community, fellowship, and friendliness, schemes C & D were the two dominant choices, with scheme D being the most picked. Though they were chosen to be the best for congregational accommodations, they were not considered to be spiritual. The link here would be a careful mix between a more traditional arrangement and one that encompasses the focus, such as plans C and D. People seem to prefer an arrangement that embraces the altar or focus but does not engulf it. This leads to the assumption that a mix between the two most popular plans (B and D) would be the most preferred arrangement. This would allow for the preference of familiar arrangements and their adaptability, and would also take in consideration the unity, community, enhancement, and fellowship of schemes C and D.

In the survey, several responses were made on the order that people create a friendly atmosphere and the people make up the church. They can create the unity or community and the seating arrangement may not be the key factor in determining the extent of our hypotheses. It is obvious, however, that it can enhance these qualities.
The key to flexibility in the sanctuary is the acceptance of the idea that the space and traditional furnishings are not inherently sacred and thus may be utilized for purposes other than worship.

As Gilbert Cope explains in his article "A Holy Place? Part II," the Multi-purpose hall is "usually a nondescript pre-designed rectangular box supposed to be suitable for all congregational purposes. It is not impossible to build up a lively Christian fellowship in such buildings, but, because they are not really designed for any specific purpose, they are almost equally unsuitable for all purposes." Therefore, it is important to define what functions a given space is to be designed to accommodate.

Should the pulpit, holy table, and font be screened off when non-cultic activities are held in the worship space? J. G. Davies concludes in his book "The Secular Use of Church Buildings" that they should not, on the basis that to separate them "still preserves a holy of holies and perpetuates the dichotomy of separating sacred from secular. It is furthermore argued the the presence of the pulpit and holy table witness to the presence of Christ in the midst of all activity."

A building which utilizes flexibility and adaptability is an effective tool in the development of a Christian community. In such a building people rather than the building itself come into focus. It serves the people and avoids the situation in which people find themselves serving a building.
NEIGHBORHOOD PLAN

- COMMERCIAL
- PARK
- RESIDENTIAL
CHURCH OF CHRIST
MEADOWOOD CENTER
AMERICAN FLETCHER NATIONAL BANK
MEADOWOOD OFFICE CENTER
FLANNER AND BUCHANAN MORTUARY
Traffic light at intersection of 30th St. and High School Rd.

Moderate to heavy thru traffic on High School Rd.

Light, mainly local traffic on 30th St.
A  APPROACH DOWN HIGH SCHOOL RD.
B  BUSINESSES IN MEADOWOOD CENTER
C  APPROACH DOWN 30TH ST.
D  APARTMENTS ACROSS LOT
E  RESIDENCES ALONG BLUEBELL LA.

NOTE: WIDTH OF ARROW INDICATES RELATIVE IMPORTANCE OF VIEWS IN DESIGN
1. View towards Meadowood Center - large parking lot makes this an undesirable view.

2. View towards American Fletcher National Bank - partially hidden by vegetation.

3. View across open lot towards apartment complex - perspective makes this a desirable view.

4. View towards apartment complex - partially hidden by vegetation. Large oak trees makes this a desirable view.

5. View towards single family residences - partially hidden by vegetation.
MUFFLED LOW NOISE LEVEL FROM VEHICLES ON INTERSTATE 465

HIGH NOISE LEVEL FROM STARTING VEHICLES AT TRAFFIC LIGHT ON INTERSECTION OF 30TH ST. & HIGH SCHOOL RD.
John Knox Presbyterian Church was established in 1961 and is now in its 25th year of organization. The congregation, originally of less than 100, has grown to approximately 520 men, women, and children, and was originally established to serve the immediate community of Speedway and western Indianapolis. The church receives its name from the 16th Century Scottish reformer who was instrumental in establishing the Protestant religion in that part of the world.

Though located in a relatively stable middle-class neighborhood in the city of Speedway, today the majority of the congregation is spread throughout the central Indiana counties of Marion, Hendricks, Boone, Hamilton, and Johnson. The congregation is generally middle-class to upper middle-class and contains a very small minority membership.

Though membership has remained relatively stable for the past couple of years, the congregation has the desire of expanding the facilities in order that their religious needs be better served. The present facility will be demolished in order to make room for the proposed complex on the same site.
This proposed complex will provide the space necessary for religious functions used by the congregation as well as space for secular functions to serve the surrounding community. The integration of multiple uses into the church and the flexibility and/or adaptability of space in the church are both important considerations for this facility. Average worship attendance is 212, but space should be provided for at least 400.

In the Presbyterian church, as well as all Protestant churches, the emphasis is placed on the "word of God." Therefore, the pulpit is a major focus. This promotes the concept of worship as a "shared" experience between pastor and congregation, as well as between worshippers. Important symbols in the sanctuary are the baptismal font, communion table, cross, banners, choir and organ. Emphasis is placed on the cross, font, and table, while the choir, banners, and organ should remain secondary. Choir facilities should be included, as well as a crib room, storage and appropriate vesting rooms.
Space is desired for a diverse group of functions, from banquets and receptions to dances and drama. Space needs to be as flexible as possible, yet provide the best possible facilities for each function. Back-up space and ample storage are crucial for each function.

The educational facilities will provide for the religious education of the church congregation as well as accommodate a co-op day-care program. Classes must be flexible to handle a wide variety of users and uses. It is certain that the public will occasionally occupy these spaces.

This religious facility will serve both the congregation and the community by providing space for a wide range of activities, ranging from day-care, mother’s day out programs, and aerobic dancing to weddings, funerals and worship services. Its ability to provide flexible and adaptable space can only benefit the church and its users.
PASTOR'S OFFICE

Function: Provide pastor with space for administration and counseling of church members and others

Image: Informal, personalized character

Primary Users: Pastor, church members, general public

Activities: Reading, writing, conversing / counseling

Time of Use: Primarily business hours during week but can be used nearly anytime

Furniture / Equipment: Desk and chair, credenza, chairs for counseling visitors, small tables, bookcases, telephone, filing cabinets

Thermal: Provide for general comfort of a seated person doing light office work and several people conversing

Acoustics: Provide confidential privacy

Lighting: Adequate illumination at desk for performance of above tasks

Primary Considerations: Security, isolated location, alternate access for confidentiality of those being counseled

Area: 225 sq. ft.
<table>
<thead>
<tr>
<th><strong>ASSISTANT PASTOR’S OFFICE</strong></th>
</tr>
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<tbody>
<tr>
<td><strong>Function</strong></td>
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<tr>
<td><strong>Image</strong></td>
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<tr>
<td><strong>Primary Users</strong></td>
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<tr>
<td><strong>Activities</strong></td>
</tr>
<tr>
<td><strong>Time of use</strong></td>
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<tr>
<td><strong>Furniture / Equipment</strong></td>
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<tr>
<td><strong>Thermal</strong></td>
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<td><strong>Acoustics</strong></td>
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<td><strong>Lighting</strong></td>
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<tr>
<td><strong>Primary Considerations</strong></td>
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<tr>
<td><strong>Area</strong></td>
</tr>
<tr>
<td><strong>SECRETARY</strong></td>
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<td>----------------</td>
</tr>
<tr>
<td><strong>Function</strong></td>
</tr>
<tr>
<td><strong>Image</strong></td>
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<tr>
<td><strong>Primary users</strong></td>
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<tr>
<td><strong>Activities</strong></td>
</tr>
<tr>
<td><strong>Time of Use</strong></td>
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<tr>
<td><strong>Furniture / Equipment</strong></td>
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<td><strong>Thermal</strong></td>
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<td><strong>Acoustics</strong></td>
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<td><strong>Lighting</strong></td>
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<tr>
<td><strong>Primary Considerations</strong></td>
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<tr>
<td><strong>Area</strong></td>
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### CHOIR ROOM

<table>
<thead>
<tr>
<th>Function</th>
<th>Provide space for practice of choir</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image</td>
<td>Flexible, educational, private</td>
</tr>
<tr>
<td>Primary Users</td>
<td>Choir members, musical staff or instructor</td>
</tr>
<tr>
<td>Activities</td>
<td>Meeting, instructing, singing, playing music, reading, writing</td>
</tr>
<tr>
<td>Time of Use</td>
<td>Evenings one or two days a week</td>
</tr>
<tr>
<td>Furniture / Equipment</td>
<td>Desk and chair, filing cabinets, chairs for approximately 25 choir members, chalkboard, storage for gowns, piano, podium</td>
</tr>
<tr>
<td>Thermal</td>
<td>Provide general comfort for a group of people seated doing light activities</td>
</tr>
<tr>
<td>Acoustics</td>
<td>Provide sufficient privacy</td>
</tr>
<tr>
<td>Lighting</td>
<td>Provide adequate lighting for above tasks</td>
</tr>
<tr>
<td>Primary Considerations</td>
<td>Flexibility</td>
</tr>
<tr>
<td>Area</td>
<td>625 sq. ft.</td>
</tr>
<tr>
<td><strong>LIBRARY</strong></td>
<td></td>
</tr>
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<td>-------------</td>
<td></td>
</tr>
<tr>
<td><strong>Function</strong></td>
<td>Provide space for reading of material</td>
</tr>
<tr>
<td><strong>Image</strong></td>
<td>Studious, educational</td>
</tr>
<tr>
<td><strong>Primary Users</strong></td>
<td>Church members and staff</td>
</tr>
<tr>
<td><strong>Activities</strong></td>
<td>Studying, reading, writing</td>
</tr>
<tr>
<td><strong>Time of Use</strong></td>
<td>Business hours during week and during any church related activities</td>
</tr>
<tr>
<td><strong>Furniture / Equipment</strong></td>
<td>Chairs, table and chairs, desk and chair, book shelves, reference texts</td>
</tr>
<tr>
<td><strong>Thermal</strong></td>
<td>Provide general comfort for persons quietly seated studying</td>
</tr>
<tr>
<td><strong>Acoustics</strong></td>
<td>Provide confidential privacy</td>
</tr>
<tr>
<td><strong>Lighting</strong></td>
<td>Provide adequate illumination for persons studying; avoid reflected glare; screening of direct sunlight</td>
</tr>
<tr>
<td><strong>Primary Considerations</strong></td>
<td>Privacy, security</td>
</tr>
<tr>
<td><strong>Area</strong></td>
<td>250 sq. ft.</td>
</tr>
<tr>
<td>Function</td>
<td>Storage of financial records, educational supplies and curriculum</td>
</tr>
<tr>
<td>---------------------------</td>
<td>------------------------------------------------------------------</td>
</tr>
<tr>
<td>Image</td>
<td>Spacious</td>
</tr>
<tr>
<td>Primary Users</td>
<td>Secretary, session and committee members</td>
</tr>
<tr>
<td>Activities</td>
<td>Reading, Writing</td>
</tr>
<tr>
<td>Time of Use</td>
<td>During business hours during week or during any church related function</td>
</tr>
<tr>
<td>Furniture / Equipment</td>
<td>Shelves for boxes and files, work space, chair</td>
</tr>
<tr>
<td>Thermal</td>
<td>Provide for comfort of person doing light office work</td>
</tr>
<tr>
<td>Acoustics</td>
<td>Provide minimum privacy</td>
</tr>
<tr>
<td>Lighting</td>
<td>Adequate at work space for above tasks</td>
</tr>
<tr>
<td>Primary Considerations</td>
<td>Location (central or near secretary)</td>
</tr>
<tr>
<td>Area</td>
<td>100 sq. ft.</td>
</tr>
<tr>
<td><strong>SANCTUARY</strong></td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td><strong>Function</strong></td>
<td>Provide a space for the religious needs of the church and congregation</td>
</tr>
<tr>
<td><strong>Image</strong></td>
<td>Private, intimate, inspiring, symbolic</td>
</tr>
<tr>
<td><strong>Primary Users</strong></td>
<td>Church members, visitors</td>
</tr>
<tr>
<td><strong>Activities</strong></td>
<td>Worship, prayer, weddings, funerals, meditating, reading, singing</td>
</tr>
<tr>
<td><strong>Time of Use</strong></td>
<td>Sunday mornings, weekday evenings, anytime</td>
</tr>
<tr>
<td><strong>Furniture / Equipment</strong></td>
<td>Seating with knee rests, communion table, baptismal font, pulpit, cross, banners, pipe organ, piano</td>
</tr>
<tr>
<td><strong>Thermal</strong></td>
<td>Provide for comfort of large group doing light activities, proper ventilation required</td>
</tr>
<tr>
<td><strong>Acoustics</strong></td>
<td>Provide acoustic treatment of surfaces</td>
</tr>
<tr>
<td><strong>Lighting</strong></td>
<td>Provide adequate illumination with choice of multiple lighting levels, avoid glare and direct sunlight, highlighting of certain symbolic elements is considered important and special lighting conditions may be considered in character of space</td>
</tr>
<tr>
<td><strong>Primary Considerations</strong></td>
<td>Image, accessibility, security, symbolism</td>
</tr>
<tr>
<td><strong>Area</strong></td>
<td>2500 sq. ft.</td>
</tr>
</tbody>
</table>
**SACRISTY**

<table>
<thead>
<tr>
<th>Function</th>
<th>Storage of vestments and robes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image</td>
<td>Private</td>
</tr>
<tr>
<td>Primary Users</td>
<td>Pastor and assistant pastor, church staff</td>
</tr>
<tr>
<td>Activities</td>
<td>Robing, storage</td>
</tr>
<tr>
<td>Time of Use</td>
<td>Before and after worship, during worship</td>
</tr>
<tr>
<td>Furniture / Equipment</td>
<td>Shelves and hangers, chair</td>
</tr>
<tr>
<td>Thermal</td>
<td>Provide for comfort of person sitting</td>
</tr>
<tr>
<td>Acoustics</td>
<td>Provide minimum privacy</td>
</tr>
<tr>
<td>Lighting</td>
<td>Adequate for above activities</td>
</tr>
<tr>
<td>Primary Considerations</td>
<td>Location, privacy, security</td>
</tr>
<tr>
<td>Area</td>
<td>90 sq. ft.</td>
</tr>
</tbody>
</table>
NARThEx

Function
Overflow for entrance to sanctuary

Image
Friendly, receptive

Primary Users
Church members and visitors

Activities
Conversing, sitting, standing, waiting

Time of Use
When scheduled activities direct

Furniture / Equipment
Table, chairs, tackboard

Thermal
Provide comfort for large groups of people standing and conversing

Acoustics
Provide minimum privacy

Lighting
Adequate for the above activities

Primary Considerations
Location

Area
500 sq. ft.
**FELLOWSHIP HALL**

<table>
<thead>
<tr>
<th>Function</th>
<th>Provide space for the assembly of large groups</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image</td>
<td>Solid, warm</td>
</tr>
<tr>
<td>Primary Users</td>
<td>Church members and outside groups</td>
</tr>
<tr>
<td>Activities</td>
<td>Conversing, dancing, eating, speaking, meeting, viewing, listening</td>
</tr>
<tr>
<td>Time of Use</td>
<td>Irregular</td>
</tr>
<tr>
<td>Furniture / Equipment</td>
<td>Table, chairs, podium, storage for equipment, elevated stage</td>
</tr>
<tr>
<td>Thermal</td>
<td>Provide comfort for large groups of people doing light to semi-strenuous activities, proper ventilation necessary</td>
</tr>
<tr>
<td>Acoustics</td>
<td>Provide acoustic treatment of surfaces</td>
</tr>
<tr>
<td>Lighting</td>
<td>Provide adequate illumination with choice of multiple lighting levels, avoid glare and direct sunlight</td>
</tr>
<tr>
<td>Primary Considerations</td>
<td>Flexibility, durability</td>
</tr>
<tr>
<td>Area</td>
<td>4000 sq. ft.</td>
</tr>
</tbody>
</table>
### KITCHEN

<table>
<thead>
<tr>
<th>Function</th>
<th>Serve dining events</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image</td>
<td>Bright, clean</td>
</tr>
<tr>
<td>Primary Users</td>
<td>Church members and staff, outside groups</td>
</tr>
<tr>
<td>Activities</td>
<td>Preparing, cooking, and storing of food and utensiles</td>
</tr>
<tr>
<td>Time of Use</td>
<td>When scheduled activities direct</td>
</tr>
<tr>
<td>Furniture / Equipment</td>
<td>Range, refrigerator, cupboards, counter space, double sink, waste disposal, fire extinguisher, microwave</td>
</tr>
<tr>
<td>Thermal</td>
<td>provide adequate comfort of persons involved in the above activities, consider additional heat of oven, provide proper ventilation and exhaust</td>
</tr>
<tr>
<td>Acoustics</td>
<td>Provide minimum privacy</td>
</tr>
<tr>
<td>Lighting</td>
<td>Provide adequate illumination for the performance of each task, task lighting at at counters, sink and range</td>
</tr>
<tr>
<td>Primary Considerations</td>
<td>Service, safety, security</td>
</tr>
<tr>
<td>Area</td>
<td>300 sq. ft.</td>
</tr>
</tbody>
</table>
CRIB ROOM

Function  
Provide space for the sitting of babies

Image  
Quiet, intimate

Primary Users  
Babies and one sitter

Activities  
Sleeping, sitting, rocking

Time of Use  
During worship services and functions

Furniture / Equipment  
Crib, tables, rocking chair, storage of utensiles, sink or bath, hot plate, refrigerator, trash receptacle

Thermal  
Provide for comfort of small babies sleeping

Acoustics  
Provide confidential privacy

Lighting  
Provide low lighting level with ability of multiple levels, task lighting sufficient for above tasks, screening of direct sun

Primary Considerations  
Safety, privacy

Area  
400 sq. ft.
CLASSROOM

Function
Provide for child's activities, meeting, instruction and education

Image
Cheery, educational

Primary Users
Children aged kindergarten through 3rd grade and instructor

Activities
Games, meeting, conversing, singing, instruction, viewing, reading, writing

Time of Use
During worship services and afternoon days during week

Furniture / Equipment
Tables and chairs, tackboard, storage for games and equipment, chalkboard, viewing screen

Thermal
Provide for comfort of children doing light activities

Acoustics
Provide sufficient privacy

Lighting
Provide adequate illumination with multiple lighting levels for the performance of the above activities, daylighting preferred with screening from sun and glare

Primary Considerations
Safety, location

Area
2 @ 325 sq. ft.
CLASSROOM

Function  Provide for child's activities, meeting, instruction and education

Image  Happy, bright, comfortable

Primary Users  Children aged 2 - 5 years and instructor

Activities  Games, meeting, conversing, singing

Time of Use  During worship services and afternoon days during week

Furniture / Equipment  Tables and chairs, bathroom, storage for games and equipment, chalkboard, viewing screen

Thermal  provide for comfort of children doing light activities

Acoustics  Provide sufficient privacy

Lighting  Provide adequate illumination with multiple lighting levels for the performance of the above activities, daylighting preferred with screening from sun and glare

Primary Considerations  Safety, location

Area  2 @ 325 sq. ft.
**CLASSROOM**

<table>
<thead>
<tr>
<th>Function</th>
<th>Provide space for group meetings, instruction, education, games, and activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image</td>
<td>Cheery, educational</td>
</tr>
<tr>
<td>Primary Users</td>
<td>Children aged 4th - 6th grades and instructor</td>
</tr>
<tr>
<td>Activities</td>
<td>Games, meeting, conversing, singing, instruction, viewing, reading, writing</td>
</tr>
<tr>
<td>Time of Use</td>
<td>During worship services and afternoon days during week</td>
</tr>
<tr>
<td>Furniture / Equipment</td>
<td>Tables and chairs, tackboard, storage for games and equipment, chalkboard, viewing screen, desk and chair</td>
</tr>
<tr>
<td>Thermal</td>
<td>Provide for comfort of children doing light activities</td>
</tr>
<tr>
<td>Acoustics</td>
<td>Provide sufficient privacy</td>
</tr>
<tr>
<td>Lighting</td>
<td>Provide adequate illumination with multiple lighting levels for the performance of the above activities, daylighting preferred with screening from sun and glare</td>
</tr>
<tr>
<td>Primary Considerations</td>
<td>Safety, location</td>
</tr>
<tr>
<td>Area</td>
<td>650 sq. ft.</td>
</tr>
<tr>
<td><strong>CLASSROOM</strong></td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td></td>
</tr>
<tr>
<td><strong>Function</strong></td>
<td>Provide space for group meetings, instruction or activities</td>
</tr>
<tr>
<td><strong>Image</strong></td>
<td>Flexible, educational</td>
</tr>
<tr>
<td><strong>Primary Users</strong></td>
<td>Church members, visiting groups, instructor(s)</td>
</tr>
<tr>
<td><strong>Activities</strong></td>
<td>Meeting, instructing, viewing presentations, reading, writing</td>
</tr>
<tr>
<td><strong>Time of Use</strong></td>
<td>Irregular</td>
</tr>
<tr>
<td><strong>Furniture / Equipment</strong></td>
<td>Desk or podium, tables, chairs, chalkboard, viewing screen, storage for equipment, tackboard</td>
</tr>
<tr>
<td><strong>Thermal</strong></td>
<td>Provide general comfort for a group of persons seated doing light activities</td>
</tr>
<tr>
<td><strong>Acoustics</strong></td>
<td>Provide sufficient privacy</td>
</tr>
<tr>
<td><strong>Lighting</strong></td>
<td>Provide adequate illumination with multiple lighting levels for the performance of the above activities, daylighting preferred with screening from sun and glare</td>
</tr>
<tr>
<td><strong>Primary Considerations</strong></td>
<td>Flexibility, location</td>
</tr>
<tr>
<td><strong>Area</strong></td>
<td>2 @ 450 sq. ft.; 2 @ 650 sq. ft.</td>
</tr>
<tr>
<td><strong>Function</strong></td>
<td>Provide space for lawn care and building care storage</td>
</tr>
<tr>
<td>--------------</td>
<td>------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Image</strong></td>
<td>Private</td>
</tr>
<tr>
<td><strong>Primary Users</strong></td>
<td>Church staff</td>
</tr>
<tr>
<td><strong>Activities</strong></td>
<td>Storage, minor equipment repairs</td>
</tr>
<tr>
<td><strong>Time of Use</strong></td>
<td>Irregular</td>
</tr>
<tr>
<td><strong>Furniture / Equipment</strong></td>
<td>Shelves for storage of tools, bench, work space, riding lawn mower, lawn mower, extension ladder</td>
</tr>
<tr>
<td><strong>Thermal</strong></td>
<td>Provide minimum comfort</td>
</tr>
<tr>
<td><strong>Acoustics</strong></td>
<td>Provide minimum privacy</td>
</tr>
<tr>
<td><strong>Lighting</strong></td>
<td>Provide adequate lighting at work space for above activities</td>
</tr>
<tr>
<td><strong>Primary Considerations</strong></td>
<td>Security, location</td>
</tr>
<tr>
<td><strong>Area</strong></td>
<td>350 sq. ft.</td>
</tr>
<tr>
<td>Category</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td><strong>ADMINISTRATION</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pastor's Office</td>
</tr>
<tr>
<td></td>
<td>Assistant Pastor's Office</td>
</tr>
<tr>
<td></td>
<td>Secretary</td>
</tr>
<tr>
<td></td>
<td>Choir Room</td>
</tr>
<tr>
<td></td>
<td>Library</td>
</tr>
<tr>
<td></td>
<td>Administrative Storage</td>
</tr>
<tr>
<td></td>
<td>Total</td>
</tr>
<tr>
<td><strong>RELIGIOUS</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sanctuary</td>
</tr>
<tr>
<td></td>
<td>Sacristy</td>
</tr>
<tr>
<td></td>
<td>Storage</td>
</tr>
<tr>
<td></td>
<td>Total</td>
</tr>
<tr>
<td><strong>SOCIAL</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Narthex</td>
</tr>
<tr>
<td></td>
<td>Fellowship Hall</td>
</tr>
<tr>
<td></td>
<td>Kitchen</td>
</tr>
<tr>
<td></td>
<td>Total</td>
</tr>
<tr>
<td><strong>EDUCATIONAL</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Crib Room</td>
</tr>
<tr>
<td></td>
<td>Classrooms: 325 sq. ft. each x 4</td>
</tr>
<tr>
<td></td>
<td>Classrooms: 650 sq. ft. each x 3</td>
</tr>
<tr>
<td></td>
<td>Classrooms: 450 sq. ft. each x 2</td>
</tr>
<tr>
<td></td>
<td>Total</td>
</tr>
<tr>
<td>SUPPORT</td>
<td>SQ. FT.</td>
</tr>
<tr>
<td>------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Janitoral</td>
<td>60</td>
</tr>
<tr>
<td>Maintenance &amp; Storage</td>
<td>350</td>
</tr>
<tr>
<td>Bathrooms: 75 sq. ft. each x 4</td>
<td>300</td>
</tr>
<tr>
<td>Mechanical</td>
<td>300</td>
</tr>
</tbody>
</table>

Total .................................. 1010

TOTALS

| Administration                | 1550    |
| Religious                     | 2790    |
| Social                        | 4800    |
| Educational                   | 4550    |
| Support                       | 1010    |

Total .................................. 14700
+ 15% Circulation ................. 22005

TOTAL SPACE REQUIREMENT .......... 16905
GOD does not dwell in stone, he dwells among his people.
The church building is the house of God's people, rather than the house of God.
The church is not sacred, the event which occurs inside is sacred.

The church is a community of people, a place where people gather together
to install a sense of community about a focus. just as people might gather around a speaker.

People are really the focus of liturgy; it is an activity of human interaction.
The church is a part of the community.
There is no separation of sacred and secular, God is found in the people, not
the building, therefore God is found wherever there are people.

Without a separation between sacred and secular events - the two seem to be
united into one space.
The church building becomes a part of the church community as well as the
community at large.

Adaptability and flexibility begin to be conveyed through the church by its
ability to unite the secular and sacred.
because it is only the event that is sacred, not the space. the adaptability
and flexibility becomes important in uniting the secular and the sacred,
the church community and the community at large.
The worship space becomes the key role in uniting the secular and sacred.
The church and community and therefore becomes the central focus in
connecting, adaptability and flexibility.

To allow for the greatest flexibility/adaptability of the building, no specific
presbyterian liturgies/beliefs will be symbolized through the block. only
some basic covenant principles. this will allow for changes in liturgy, or in
the event of the break up of the church, a change in denominational use or function altogether.
The church is not the house of God, but among the people. God does not dwell in stone but among the people. Because people are the folk, the folk will have an inner focus.

Many of architects of the past suggested the church was a factory or a set against the community. Arch, church, forms the church as being a part of the community.

Uniting the sacred and the secular in many different functions must be located in various ways. A place to exercise God in people and the place that will demonstrate that

Because the church cannot be found in its people, its accountability, identity will be also missed by this.
FLEXIBILITY: REFERS TO THE FOLDING OF CLOTH.
ADAPTABILITY: REFERS TO THE CLOTH

Full circle brings people closer to others.
Makes more of a sense of community.

You're really entering church as you enter site.
Enter as a procession - procession of events.
Should open up to community - welcome the community.
The church as a part of the community - important not to separate from

Rhythm - motion - sense of entry remaining in hierarchy of events - perspective.

A gate seems to separate from community.
WHAT FORM HOW TO ENLARGE
NEED TO GET AS MUCH OUT OF THIS AS POSSIBLE

