THESIS PROJECT: DONN TREESE
COLLEGE OF ARCHITECTURE & PLANNING
BALL STATE UNIVERSITY
MUNCIE, INDIANA
MAY 1976.
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I propose for my thesis project to develop a design scheme for worship and educational facilities for the Westminster Presbyterian Church located at the corner of Riverside and Tillotson in Muncie, Indiana. This project offers great potential for me personally and provides a big service to the members of the congregation. The church members as clients in this project would gain experience in 1) clarifying their own church goals 2) realistically evaluating their own needs and 3) working with an architect in an actual design situation. This experience would help provide better communication and understanding when they do employ the services of an architect. This project would benefit me by causing me to apply the knowledge and skills I have gained and by causing me to take the initiative to plan and complete the design process.

In evaluating the role of the architect in the building process I see his main responsibility being that of a servant. The architect as a trained professional should serve his client by: 1) helping the client realistically identify and evaluate his own needs 2) creating the best possible design solution to provide for actual needs and 3) supervising the construction process to ensure the best quality in the final product. As a thesis project I would only be involved with the first two phases of this process. The difficulty I have seen with many architects today is that they design for themselves and not for their client. My goal is to help the church evaluate their direction and then to realistically and creatively design for their needs.
The proposed thesis project presents many potential but exciting problems. This problem more than any previous C. A. P. design project will deal directly with real people in a real situation. This is an actual church congregation with actual needs, actual space limitations, actual budget problems and actual personal aesthetic preferences. It will involve interviewing and understanding the clients and designing to fit their needs.

The church presently owns two adjacent corner lots (one on Riverside and Tillotson and one at Riverside and Alden) and several adjoining lots (see site map page). The existing facilities are inadequate and some are in need of extensive repair. A parking lot has recently been completed in accordance with a master plan developed by Ampersand Partnership. The church’s present financial situation dictates an economically justified design solution. The people in the congregation are generally Bible believing in doctrine and conservative in nature. The specific direction can only be correctly evaluated by thoroughly understanding the church’s present situation.
An analysis of the different aspects of this project will show some specific problems that will have to be taken into consideration in the design process. Both the existing site and the existing buildings must be considered to understand the potential of the design and the timing on new construction. The property owned by the church is located on Riverside Avenue between Tillotson and Alden. The size of the lot is 300' by 250' (1 2/3 acres) with possible expansion on to additional lots in the future. The site is bordered on two sides by busy thoroughfares and on the third side by a very poorly drained residential street. Bisecting the site is a 10' utility right of way over which no permanent structures can be built. On the Riverside Avenue side of the property is a control station owned by the gas company which cannot be moved but will be remodeled by the gas company to compliment any new building by the church. A recently completed parking lot for 42 cars occupies the Alden-Riverside corner of the property. The whole side of the site along Alden Street is low swampy ground with very poor drainage. Along Tillotson Avenue are two lots owned by the church. The houses on these lots are presently being rented but they are not in very good condition (see photo 4) and there are no qualms about tearing them down to provide space for new facilities.

Another aspect to take into consideration is the condition of the existing church facilities. The present sanctuary is structurally sound and in good condition (see photo 3) but it is insufficient spacially for their needs. The education-office facility (see photo 2) is in poor condition and will take a rather large investment to adequately repair it. This may suggest a little urgency in the timing of a new facility.
The Westminster Presbyterian Church is almost entirely supported by contributions of its members and friends. In 1974 the church operated on a budget of $42,018.00 with $41,295.69 actual income and $37,371.35 actual expense. The 1975 proposed budget is $49,950.00. The cost of any new construction would come from a special pledge by the members of the congregation handled through the facilities fund. The present indebtedness of the church is $73,889.73 and there is no special budget proposal for any new construction. When a design and budget proposal is made the congregation decides if they are willing to support the proposed project. Design suggestions would have to include projected cost to assure congregational support through each phase of the design process. The following reports were compiled by the treasurer Carl Darger.

Statement of Indebtedness
Proposed 1975 Budget
## BUDGET

### Financial Report

**January 1, 1974 - December 1, 1974**

<table>
<thead>
<tr>
<th>INCOME</th>
<th>1974 TOTALS</th>
<th>1974 BUDGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday School</td>
<td>$ 440.10</td>
<td>$ 750.00</td>
</tr>
<tr>
<td>Loose Offering</td>
<td>2,241.51</td>
<td>2,200.00</td>
</tr>
<tr>
<td>Pledges &amp; Contributions</td>
<td>34,787.73</td>
<td>35,088.00</td>
</tr>
<tr>
<td>Rentals</td>
<td>3,480.00</td>
<td>3,480.00</td>
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<tr>
<td>Miscellaneous Income</td>
<td>346.35</td>
<td>500.00</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td><strong>$41,295.69</strong></td>
<td><strong>$42,018.00</strong></td>
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<table>
<thead>
<tr>
<th>EXPENSE</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Minister</td>
<td>$11,416.00</td>
<td>$11,318.00</td>
</tr>
<tr>
<td>Manse</td>
<td>3,086.47</td>
<td>2,500.00</td>
</tr>
<tr>
<td>Church Properties</td>
<td>13,180.55</td>
<td>20,000.00</td>
</tr>
<tr>
<td>Church Operation</td>
<td>6,401.55</td>
<td>5,200.00</td>
</tr>
<tr>
<td>Budgeted Missions</td>
<td>2,915.00</td>
<td>3,000.00</td>
</tr>
<tr>
<td>Non-budgeted Missions</td>
<td>371.00</td>
<td>--0--</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td><strong>$37,371.35</strong></td>
<td><strong>$42,018.00</strong></td>
</tr>
</tbody>
</table>

### FACILITIES FUND

- **Income**: $9,597.68
- **Expense**: 1,822.95

| Balance on hand          | 7,774.73    |
| Outstading bills         | 8,535.00    |
| Shortage                 | (760.27)    |

### CHECKING ACCOUNT

**Balance on Hand - December 31, 1974**: $6,385.04

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**WESTMINSTER PRESBYTERIAN CHURCH**

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**PROGRAM**

## Statement of Indebtedness

| Property            | Holder | Rate  | Principal Balance
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Church &amp; Annex (1st)</td>
<td>LL</td>
<td>7%</td>
<td>$23,516.04</td>
</tr>
<tr>
<td>Church &amp; Annex (2nd)</td>
<td>NPM</td>
<td>5%</td>
<td>$----</td>
</tr>
<tr>
<td>Manse</td>
<td>MNB</td>
<td>6 1/2%</td>
<td>$11,410.82</td>
</tr>
<tr>
<td>703 &amp; Lots</td>
<td>MNB</td>
<td>8%</td>
<td>$24,420.45</td>
</tr>
<tr>
<td>701 N. Tillotson</td>
<td>MNB</td>
<td>7 1/2%</td>
<td>$10,142.42</td>
</tr>
<tr>
<td>MNB Note</td>
<td>MNB</td>
<td>varies</td>
<td>$4,400.00</td>
</tr>
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</table>

**Total Indebtedness**

$73,889.73

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**Westminster Presbyterian Church**
### Proposed 1975 Budget

#### Income

<table>
<thead>
<tr>
<th>Source</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday School</td>
<td>$220.00</td>
</tr>
<tr>
<td>Loose Offering</td>
<td>$2,500.00</td>
</tr>
<tr>
<td>Pledges &amp; Contributions</td>
<td>$42,750.00</td>
</tr>
<tr>
<td>Rentals</td>
<td>$4,080.00</td>
</tr>
<tr>
<td>Miscellaneous Income</td>
<td>$400.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$49,950.00</strong></td>
</tr>
</tbody>
</table>

#### Expense

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minister</td>
<td>$13,200.00</td>
</tr>
<tr>
<td>Manse</td>
<td>$2,800.00</td>
</tr>
<tr>
<td>Church Properties</td>
<td>$17,550.00</td>
</tr>
<tr>
<td>Church Operation</td>
<td>$9,900.00</td>
</tr>
<tr>
<td>Budgeted Missions</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>Non-budgeted Missions</td>
<td>$0.00</td>
</tr>
<tr>
<td>Intern</td>
<td>$1,500.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$49,950.00</strong></td>
</tr>
</tbody>
</table>
The 89 members of the Westminster Presbyterian Church are the reason for the church's existence. Because of its strong Biblical foundation and its proximity to the university the church is also supported by campus Christian organizations like Campus Crusade for Christ, Intervarsity Christian Fellowship and the Navigators. The members of the church as a whole have a strong personal commitment to Jesus Christ which shows in their determination and participation in church activities. To look more closely at the congregation this section will be divided as follows:

Past
Participation
Pastor

Past

The history of the congregation at Westminster is very short. The majority of the charter membership was organized from members of the University Presbyterian Church who felt their spiritual needs were not being met. In 1967 several families began meeting in a home and called their first pastor, James Ransom. Later that year they purchased the manse and the following year they bought the present church facilities. In 1972 Frank Crane, the present pastor, was brought from Newburg, New York. The church has continued to grow from a few families to its present size of 89 communicant members, 19 covenant children and 3 associate members.

Though the congregational history is short the history of the denomination goes back to 1774. The first Reformed Presbyterian Church was founded at Elizabethtown, Pennsylvania and 200 years later over 200 new churches had been established. Covenant College at Lookout Mountain Tennessee and Covenant Theological Seminary in St. Louis are colleges supported by the
CONGREGATION

Participation

Many members and several non-members are quite consistent in attendance at activities of the church. The present programs include: Worship, Christian Education, Fellowship, Christian Service.

Worship

Lord's Day Morning

The average attendance for each quarter over the last two years is represented by the following graph:

![Attendance Graph](image)

Praise Service

The Sunday evening praise service started in January 1974 is an informal including discussions, sermons, films and lectures on subjects related to the church. The average quarterly attendance has been 37, 28, 17, and 31.

PROGRAM

WESTMINSTER PRESBYTERIAN CHURCH
CONGREGATION

Typical Church Program
Monthly Church Newspaper and Calendar of Events.
CONGREGATION Participation

Communion Preparation
The communion preparation services are held once a month on
the Wednesday prior to communion with an average attendance of 15.

Prayer Times
Many prayer groups have been set up during the week in members'
homes. Two recent special days of prayer were observed on February 27 with
14 people and on November 13 with 7 in attendance.

Christian Education
The educational program of the church is set up to supplement
personal study and learning from the Christian home. Learning is aimed
toward usable life oriented principles and not just Biblical head knowledge.

Lord’s Day Bible School
The average attendance in Sunday School has been around 60 with
a staff of 10. The major difficulty is finding sufficient space for classes.
The organizational set up of Sunday School includes:

Pre School
Primary Grades 1-3
Junior 4-6
High School Jr. & Sr. High
Adult Electives

Their desire is to have a maximum class size of 10, especially
in the lower grades.

Small Group Bible Studies
Several small Bible studies have been set up with members of
the congregation. There is a women’s Bible study and couples’ Bible studies
meeting in people’s homes during the week.

Summer Bible School

PROGRAM

WESTMINSTER PRESBYTERIAN CHURCH
CONGREGATION Participation

A total of 63 children participated in the Summer Bible School last August. A staff of 22 organized and operated the program in crowded conditions. A need is seen to find increased space before the program can be expanded.

Doctrinal Belief

The doctrinal position of the church is taken from the Westminster Confession of Faith written in 1646 by Cornelius Burges and the Assembly of Divines called together by Parliament. The present form of this document was edited by S. W. Carruthers and published by the Presbyterian Church of England in 1946. The confession explains their Biblical understanding of:

- Holy Scriptures
- Creation
- Providence
- Free-will
- Justification
- Adoption
- Sanctification
- Saving Faith
- Good Works
- Church
- Sacraments
- Baptism
- God & Holy Trinity
- God's Eternal Decree
- Christ the Mediator
- Effectual Calling
- Repentance unto Life
- Perseverance of the Saints
- Law of God
- Civil Magistrate
- Marriage & Divorce
- Lord's Supper
- Church Censures
- Last Judgment
- The Fall of Man, Sin, and its Punishment
- God's Covenant with Man
- Assurance of Grace and Salvation
- Christian Liberty & Liberty of Conscience
- Religious Worship & the Sabbath Day
- Lawful Oaths and Vows
- Communion of Saints
- Synods & Councils
- State of Man after Death & the Resurrection of the Dead

A summary of the church's belief is contained in the Apostle's Creed which states:

I believe in God the Father Almighty, Maker of heaven and earth;
And in Jesus Christ His only Son, our Lord; who was con-
ceived by the Holy Ghost, born of the Virgin Mary, suffered under
CONGREGATION Participation

Pontius Pilate was crucified, dead, and buried; He descended into hell; the third day He rose again from the dead; He ascended into heaven, and sitteth on the right hand of God the Father Almighty; from thence He shall come to judge the quick and the dead.

I believe in the Holy Ghost; the Holy Catholic Church; the communion of saints; the forgiveness of sins; the resurrection of the body; and the life everlasting. Amen.

Fellowship

Youth Fellowship

This group meets about twice a month on the Lord's Day after Praise Service. Its goal is to encourage Christian fellowship, spiritual growth and leadership among teenagers. The attendance averages 9 including 5 members of the church.

Covenant Parent's Fellowship

The Covenant Parent's Fellowship is organized to give aid and encouragement to parents. They met about 6 times last year and discussed working with teenagers, leading a child to Christ, the parent and the Bible school teacher, and a special film, "The Christian Family, Problems and Priorities."

Young Adult Fellowship

A group started just this fall the Young Adult Fellowship is designed to provide opportunities for personal growth and Christian fellowship for persons in their 20's and 30's.

Christian Service

Witness Training

This program was started in September of 1973, with the goal of training Christians to share the Gospel effectively. Sessions are held on Thursday evenings with an hour's workshop, an hour and a half visitation and a half hour report-back. The three-member teams usually visit new
families to the church. Up to this point 16 people have participated in the program.

Woodlawn Nursing Home Services

Every other Sunday afternoon a group from the church conducts a half hour service at the Home. There are usually at least 5 members from the church who go and about 20 in attendance from the nursing home.

Pastor

Frank Crane, the present pastor, is the son of a missionary couple in Chile and is a graduate of Covenant Theological Seminary. He states that his time is centered around preparation, people and programs. Since September the pastor has been writing a column in the "Muncie Star" entitled "God Cares... And So Do I." An intern at the church since September, Doug Pegors has been a load lifter for the pastor by taking several of the pastor's responsibilities.
The church not only has present needs but also has plans for the future which must be taken into consideration in the design. Though most of the members would prefer to have one Sunday morning worship service, two are presently being held because there is not room in the sanctuary for everyone at once. The educational program is in very crowded conditions and not only needs space now but desires to expand their program in the future. Some members of the congregation are interested in using the educational facilities during the week for elementary thru high school education. This would require much different facilities than those presently being used for Sunday School. The church would like to expand to a maximum size of 300-400 members and start new churches rather than to grow larger. This is the direction the people of the church would like to go and the design proposal for new facilities should take this into consideration.
## Square Footage Requirements

<table>
<thead>
<tr>
<th>Functional Area</th>
<th>Capacity</th>
<th>/Person</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sanctuary</td>
<td>300-400</td>
<td>12-15</td>
<td>3600-6000</td>
</tr>
<tr>
<td>Narthex</td>
<td>150-200</td>
<td>10</td>
<td>1500-2000</td>
</tr>
<tr>
<td>Fellowship Hall</td>
<td>200-300</td>
<td>15-20</td>
<td>3000-6000</td>
</tr>
<tr>
<td>Kitchen</td>
<td>10</td>
<td>20-25</td>
<td>200-250</td>
</tr>
<tr>
<td>Nursery</td>
<td>10</td>
<td>25-30</td>
<td>250-300</td>
</tr>
<tr>
<td>Preschool</td>
<td>10</td>
<td>25-30</td>
<td>250-300</td>
</tr>
<tr>
<td>Primary</td>
<td>10</td>
<td>20-25</td>
<td>200-250</td>
</tr>
<tr>
<td>Junior</td>
<td>10</td>
<td>15-20</td>
<td>225-300</td>
</tr>
<tr>
<td>Senior (Jr. &amp; Sr. High School)</td>
<td>15</td>
<td></td>
<td>900-1200</td>
</tr>
<tr>
<td>Adult #1</td>
<td>75-100</td>
<td>12</td>
<td>900-1200</td>
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<td>Adult #2</td>
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<td>600-750</td>
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<tr>
<td>Adult #3</td>
<td>10-25</td>
<td>15</td>
<td>150-375</td>
</tr>
<tr>
<td>Library</td>
<td></td>
<td></td>
<td>150-300</td>
</tr>
<tr>
<td>Office</td>
<td></td>
<td></td>
<td>100-120</td>
</tr>
<tr>
<td>Workroom</td>
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<td>80-100</td>
</tr>
<tr>
<td>Pastor's Office</td>
<td></td>
<td></td>
<td>100-150</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>11,705-18,895</strong></td>
<td><strong>+20-25% circulation space</strong></td>
<td><strong>14,230-23,900</strong></td>
</tr>
<tr>
<td><strong>Total w/ multifunctional use of space</strong></td>
<td><strong>8300-14,170</strong></td>
<td><strong>+20-25% circulation space</strong></td>
<td><strong>10,150-18,000</strong></td>
</tr>
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