

BUILDING PROGRAM  
MULTI - FUNCTION I  
BR 6402

TAMIAMI CAMPUS

**DUEXIEME MAISON**

FLORIDA INTERNATIONAL UNIVERSITY

PRELIMINARY BUILDING PROGRAM FOR  
PROPOSED MULTI-FUNCTION ONE BUILDING

December 31, 1970





# FLORIDA INTERNATIONAL UNIVERSITY

TAMIAMI TRAIL • MIAMI, FLORIDA 33144 • (305) 223-2300

Dear President Perry:

Enclosed is the Preliminary Building Program for the first Multi-Functional Building of our Tamiami Campus Plan as set forth in the Comprehensive Master Plan for Florida International University. You will observe from its name, MULTI-FUNCTION ONE, that this represents the beginning of a construction program of inter-disciplinary and shared facilities of the University community.

This conceptual program is the result of much effort of the academic and administrative staffs of the University in determining requirements of our instructional programs and carefully resolving priorities to maximize our investment of limited resources available.

The Building Committee will continue their work in refining and expanding this program in greater detail to better define our facility needs to support our educational program for 1972-73 and beyond.

I trust, with this transmittal, we have successfully carried out the spirit and interests of your advice and direction.

Donald L. McDowell  
Dean of Administrative Affairs

DLM: jh



# PRELIMINARY BUILDING PROGRAM FOR PROPOSED

## MULTI-FUNCTION ONE BUILDING

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### PROGRAM SCOPE & BUILDING COMMITTEE

The scope of the Preliminary Building Program is to conceptually describe the above proposed facility in relation to the space requirements and Comprehensive Master Plan of the University. Its purpose is to set forth these needs in order for the Architect to initiate conceptual planning of the facility and for the Building Committee to further define the space and service requirements as part of this process. This Preliminary Building Program will be expanded in room and equipment detail before the completion of conceptual plans for the proposed facilities. The Building Committee membership is:

Daniel D'Oliveira, Director Physical Planning, Chairman  
Donald McDowell, Dean Administrative Affairs  
John Lewis, Dean, School of Business  
Howard Cordall, Director University Libraries  
Glenn Goerke, Dean University Services  
Keith Trowbridge, Director Planning & Analysis

### INTRODUCTION

The proposed facility is the first Multi-Functional Building, as described in the Comprehensive Master Plan, to be utilized on an inter-departmental basis. It is proposed to be available before Fall, 1973 following the Multi-Purpose Building which is the initial building for university instructional operations for Fall 1972. The Multi-Purpose Building will be adjusted, consistent with its designed ability, in functional uses as later described in this program. These minor changes are proposed to be implemented internally and will not be involved in the contract work for the proposed facility.

The design of the Multi-Purpose Building was necessarily developed with great concern in accommodating the projected students with available resources. Its ability to inter-change the functional use of space enabled a temporarily high saturation of space utilization which could be relieved to more viable and effective levels with later constructions. This concept of planning obliged an inadequacy of academic offices in necessary privacy for student consultation and research, the lack of adequate large-group areas for staff and student assemblies, and a lack of comprehensive A-V media instruction facilities. Also, because of more urgent priorities, a shortage of student service space was necessary in spite of its importance in a non-residential urban University. The proposed MULTI-FUNCTION ONE Building construction, and adjustments in the Multi-Purpose Building, will reasonably relieve these problems.



Appendix I provides a statement of space inventory in existing space (Multi-Purpose Building) by functional areas.

Appendix II provides a statement of space needs as set forth in the Comprehensive Master Plan (CMP) by functional areas and describes the anticipated changes in the Multi-Purpose Building (MPB). This tabulation also provides the proposed functional space required in the MULTI-FUNCTIONAL ONE Building (MF 1).

#### PROPOSED BUILDING DESCRIPTION

The MULTI-FUNCTION ONE Building is conceived to serve as a central facility for assembly-lecture-theatre functions. It also will house the substantial part of the academic offices for the initial years of the university operations. Specialized instructional spaces such as language and music laboratories which have been identified in the development of the educational program requirements for Fall, 1973, will be provided by improvement of existing on-site facilities not included in this proposed contract, and through cooperative arrangements with other institutions and private bodies.

These proposed needs are organized into a cohesive campus construction program.

#### CURRENT AND PROJECTED ACADEMIC PROGRAMS.

Research: None applicable.

Instruction: See Appendix III. For further information, refer to Comprehensive Master Plan for Florida International University, September, 1970.

#### STAFFING PLAN

See Appendix IV. For further information, refer to Comprehensive Master Plan for Florida International University, September, 1970.

#### SPACE PLAN

See Appendix V. For further information, refer to Comprehensive Master Plan for Florida International University, September, 1970.



## PROPOSED SPACE AND RELATIONSHIPS

The MULTI-FUNCTION ONE Building is located on the Southeast Court adjacent to the Multi-Purpose Building (see Site Map). Its location and proximity to the Library and Central Court complement its role as a central facility for large-group instruction and academic offices during the initial years of Florida International University. Its physical location also economizes on utility and road extensions as described in the Comprehensive Master Plan.

The proposed building is conceived and budgeted as a structure of approximately 100,000 square feet for appropriate massing surrounding the Southeast Court. The relationship of functional areas predicated on environmental requirements or preferences are stated here and diagrammed, as follows, for the architectural development of conceptual plans:

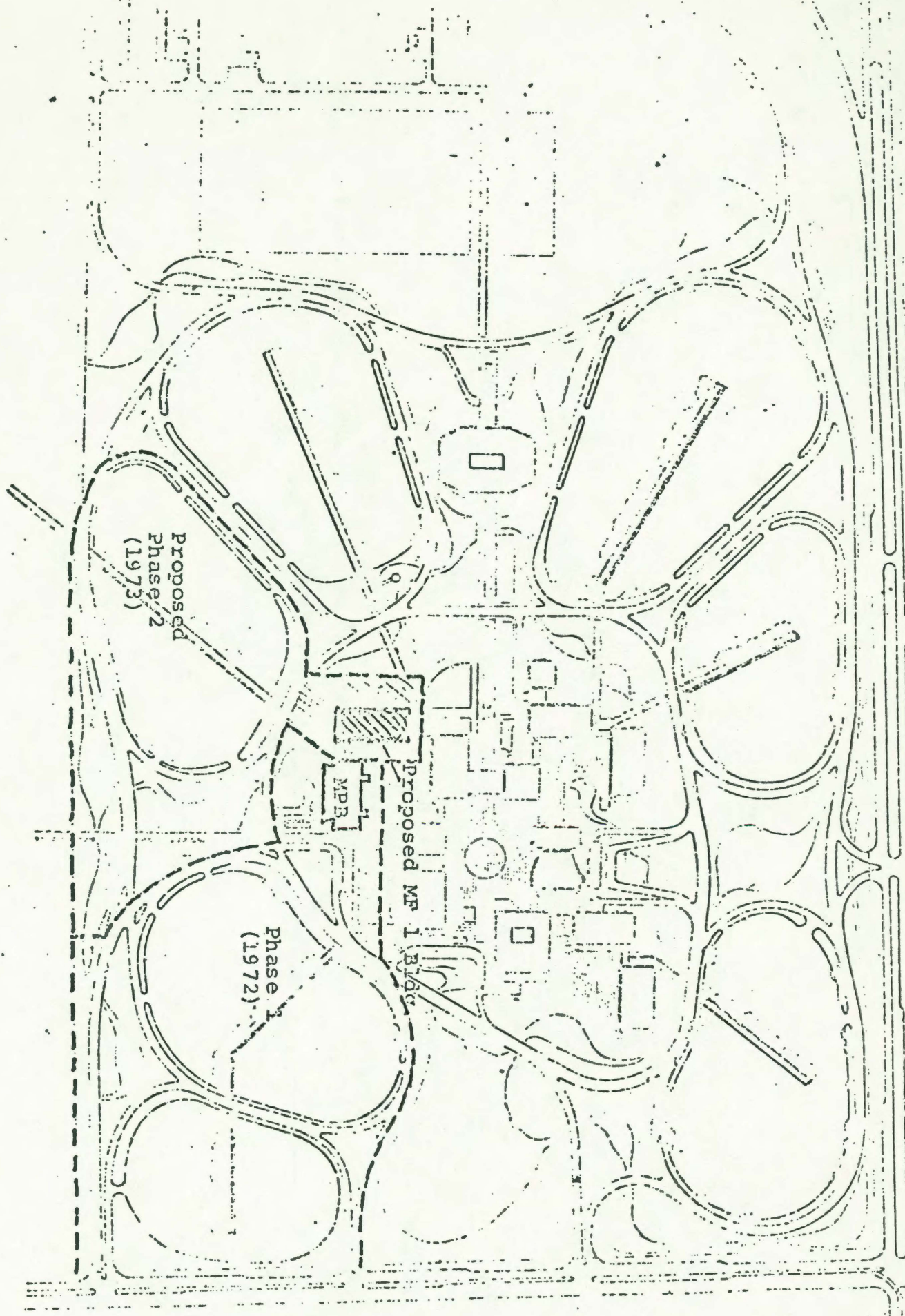
- Diagram 1: Functional Relationships of Building Areas
- Diagram 2: Functional Relationships of Faculty Offices
- Diagram 3: Functional Relationships of Dean/Counseling Offices

The large-group spaces, the Lecture Auditoriums and Theatre must have convenient exterior access with adequate entrance areas. The stage and ante spaces must be suitable for basic drama productions but without exotic stage capabilities. Adequate access to the stage must be available for large scenarios which may be fabricated elsewhere. Stage lighting and related fixed equipment must be provided. These large-group spaces must be designed for high acoustic quality and control.

The academic offices should be conveniently accessible to the exterior but relatively private from the internal high-activity areas of the building and the ground-level exterior walkways. The office layouts should be planned to accommodate changes in program staff sizes which will vary in number but will be congregated in physical location. The layout should not, however, discourage accessibility between program staff groupings.

The exterior paved areas shall be developed to function with the adjacent Multi-Purpose court area and the future Library connections. This exterior circulation and study-leisure spaces are desired to be sheltered as much as feasible. A covered walkway, under canopy or building overhang, is desired from the Multi-Purpose Building and capable of being extended to the future Library.





Proposed  
Phase 2  
(1973)

Proposed MF 1 Bldg  
MPB

Phase 1  
(1972)

0 200 400 600 800 Feet





FLORIDA INTERNATIONAL UNIVERSITY

Multi-Function Building One

Preliminary Building Program

January

DESCRIPTION OF SPACES

Section to be expanded in room detail later

Area Required

OFFICE AREAS

1 - Central Conference Room @ 600 SF; Capacity 30	600	
6 - Conference Rooms @ 400 SF for faculty use; Capacity .20	2,400	
6 - Dean Area Suites; provision for 2 additional (future)		
1 - Dean Office @ 200 SF	200	
3 - Assoc./Asst. @ 150 SF	450	
4 - Secretarial Stations, Incl. Rec.	240	
1 - Conference Room @ 200 SF	200	
1 - Reception Area (Executive)	120	
4 - (Average number per Dean Area) Student Counselor Offices @ 80 SF	320	
1 - Reception Area (Student)	120	
1 - Work Area (duplication, etc.)	<u>30</u>	
Accessible to Faculty & Secretarial pools		
	1,680 X 6	10,080
60 - Program Head: Private offices @ 120 SF located with flexibly-sized groups of teaching faculty		7,200
260 - Teaching Faculty: private offices organized to accommodate various sized program staffs in viable and changeable groups with private access and sheltered from external activities. Provisions for combining into 120 & 160 SF offices to accommodate total 240 FTE.		20,800
100 - Clerical Space		
60 - Private Secretaries for Program Heads (shared by involved faculty) @ 60 SF	3,600	
40 - Pool Secretaries (shared by Program Groups) @ 40 SF. Ratio to Faculty offices is 1:6.	<u>1,600</u>	
		5,200

STAFF & STUDENT SPACE

- 4 - Lounge-Study Eating Areas of varied size and decor to be separate but organized to handle food service; 260 capacity. Areas must be designed so they may be phased during off-peak hours for lounge & study areas. Some spaces must be related to outdoor eating & lounge areas and may employ dividing parti-
- 4,000



tions, as feasible.

- |   |            |       |
|---|------------|-------|
| 1 - Short Order Food Service operation to service above spaces and outdoor areas (outdoor counter); McDonald-type food operation, including food storage. | <u>600</u> | 4,600 |
|---|------------|-------|

#### LECTURE SPACES

- |  |            |               |
|--|------------|---------------|
| 1 - Front-screen projection room, common to lecture spaces; includes film storage and repair Intercom to instructor work-preparation areas.  | 100        |               |
| 2 - Lecture Auditoriums @ 1,800 SF with gradient or platform seating for A-V and lecture instruction; capacity of 120 each; accessible to work room for instructor preparation.  | 3,600      |               |
| 1 - Lecture Theatre @ 3,600 SF with gradient or platform seating for A-V, lecture instruction, and limited drama production; capacity 240. Removable or retractable stage; accessible to auxiliary spaces, below. Full theatre and stage lighting control. | 3,600      |               |
| 1 - International Conference-Lecture Area @1,800 SF with platform bench seating (U.N. type) for A-V, lecture instruction, and multi-lingual conferences. Capability for portable plug-in audio equipment for translations, etc. Capacity 80                | 1,800      |               |
| 1 - Stage Auxiliary spaces for drama productions and instructor preparation; includes dressing rooms, prop storage, and backdrop assembly. Exterior through-access to stage for equipment and materials.   | 600        |               |
| 2 - Work and Preparation Rooms @ 100 SF for instructor preparation accessible to Lecture Auditoriums.  | 200        |               |
| 1 - Work and Preparation Rooms, accessible to International Conference Area, for lecture preparation, small guest lounge and conference space, and interpreter space with visual control of auditorium. (Preferably elevated)                              | <u>200</u> | <u>10,100</u> |

TOTAL NET ASSIGNABLE AREA	<u>60,980</u>
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#### ESTIMATED DEVELOPMENT COSTS

The costs of the proposed MULTI-FUNCTION ONE Building are provided in Appendix VI. The related costs of modifications in the Multi-Purpose Building is included in the equipment budget allocation and should be offset by the net gain in furniture and equipment transfer to the MULTI-FUNCTION ONE Building.

MOVABLE EQUIPMENT AND FURNISHINGS LIST. Section to be expanded later.



APPENDIX I

SPACE INVENTORY FOR MULTI-PURPOSE BUILDING

	FIRST FLOOR	SECOND FLOOR	THIRD FLOOR	FOURTH FLOOR	FIFTH FLOOR	TOTAL
General Classroom			15,964	8,086		24,050
Teaching Lab			7,942	4,946		12,888
Learning Resources						
Library						
Library & Study	12,564	3,555				16,119
Stacks & Process	13,195					13,195
Research Labs						
Office Space						
Administrative	116	799			17,561	18,476
Academic	310	8,125		14,338	14,338	37,111
Student Relations		1,446	749			2,195
Admissions Registr.		2,024				2,024
Auditorium						
Teaching Gym						
Student Services						
Activities		730				730
Study		1,052	500	500		2,052
Auxiliary		4,359				4,359
Physical Plant						
Operations						
General Bldg. Storage	1,592	75				1,667
TOTAL ASSIGNABLE SF	27,777	22,165	25,155	27,870	31,899	134,866
Custodial	547	160	126	126	126	1,085
Mechanical-Toilets	1,378	3,357	1,501	1,906	1,181	9,323
Circulation	5,942	10,097	13,105	10,651	7,940	47,735
Construction	1,618	1,807	1,947	1,281	688	7,341
TOTAL GROSS AREA	37,226	37,586	41,834	41,834	41,834	200,350



## STATEMENT OF SPACE NEEDS AND PROPOSED SPACE (Fall 1973)

TYPE SPACE	1973 CMP ALLOCATION	MPB INITIAL	MPB CHANGE*	MPB (1973)	MULTI FUNCTION ONE BLDG. (1973) CMP DEFICIT (1973)	
General Classroom	43,653	24,050		24,050	9,900	- 9,703
Teaching Lab	55,567	12,888	+14,338 <sup>4</sup>	27,226**		- 28,341
Learning Resources	4,961	-0-	+ 1,550 <sup>2</sup>	1,550		- 3,411
Library & Study Library Stack & Process	48,422	29,314	+ 7,169 <sup>2</sup>	36,483	-0-	- 11,939
Research Labs	51,019	-0-		-0-	-0-	- 51,019
Office Areas	97,440	59,806	-21,507	38,299	46,280	- 12,861
Administrative		<u>18,476</u>	<u>+ 6,169<sup>5</sup></u>	<u>24,645</u>	<u>-0-</u>	
Academic		37,111	-29,632	7,479	43,580	
Student Relations		2,195	+ 956 <sup>2</sup>	3,151	2,700	
Admissions Registr.		2,024	+ 1,000 <sup>5</sup>	3,024	-0-	
Auditorium	15,786	-0-	-0-		3,900	- 11,886
Teaching Gym	26,000	-0-	-0-		-0-	- 26,000**
Student Services	42,096	7,141	- 1,550	5,591		- 36,505**
Activity		<u>730</u>		<u>730**</u>		
Study		2,052			2,300	
Auxiliary		4,359	- 1,550 <sup>2</sup>	2,809**	2,300	
Physical Plant (incl. above)		1,667**		<u>1,667</u>	-0-	
Operations	-0-	<u>-0-</u>		-0-		
General Bldg. Storage		1,667		1,667		
NON-ASSIGNABLE		65,484		65,484	40,000	
TOTAL GROSS AREA		<u>200,350</u>		<u>200,350</u>	<u>100,080</u>	

\* Subscripts indicate floor level involved.

\*\* Does not include additional space proposed in existing buildings (N.I.C.)



APPENDIX III

Enrollments By Major\*

	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81
<b>Undergraduate:</b>									
Arts & Sciences—Humanities	855	1,224	1,531	1,908	1,963	2,250	2,447	2,731	3,022
—Science	239	343	417	556	654	750	857	956	1,038
Education	1,026	1,469	1,850	2,305	2,711	3,107	3,426	3,823	4,080
Business & Organizational Sciences	684	979	1,276	1,590	1,933	2,250	2,570	2,858	3,174
Technology	342	490	702	874	1,123	1,286	1,590	1,775	1,985
Hotel, Food & Travel Services	103	146	190	238	280	321	367	410	453
Health & Social Services	172	244	333	477	654	750	979	1,072	1,300
<b>Total Undergraduate</b>	<b>3,421</b>	<b>4,895</b>	<b>6,379</b>	<b>7,948</b>	<b>9,348</b>	<b>10,714</b>	<b>12,236</b>	<b>13,655</b>	<b>15,112</b>
<b>Graduate:</b>									
Arts & Sciences—Humanities	—	—	—	—	—	38	60	86	99
—Science	—	—	—	—	—	—	—	—	39
Education	93	220	328	429	518	608	718	779	848
Business & Organizational Sciences	62	147	238	308	363	418	478	553	592
Technology	—	—	—	—	52	76	90	133	150
Hotel, Food & Travel Services	—	—	—	—	—	—	—	—	—
Health & Social Services	—	—	30	73	103	127	140	173	227
<b>Total Graduate</b>	<b>155</b>	<b>367</b>	<b>596</b>	<b>810</b>	<b>1,036</b>	<b>1,267</b>	<b>1,495</b>	<b>1,729</b>	<b>1,973</b>
<b>TOTAL ENROLLMENT</b>	<b>3,576</b>	<b>5,262</b>	<b>6,975</b>	<b>8,758</b>	<b>10,384</b>	<b>11,981</b>	<b>13,731</b>	<b>15,384</b>	<b>17,085</b>

\* Reduced to three Quarter average



APPENDIX IV

Projected Staffing 1972-1980 (Continuation)

1972-73 1973-74 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81

<b>Total Positions (Recap)</b>									
Faculty	<u>320.8</u>	<u>429.0</u>	<u>549.2</u>	<u>664.5</u>	<u>790.6</u>	<u>914.6</u>	<u>1,050.1</u>	<u>1,179.3</u>	<u>1,312.8</u>
Professional Administrators	22.0	24.0	28.0	29.0	34.0	35.0	37.0	42.0	44.0
Professional Librarians	12.0	15.0	20.0	25.0	30.0	33.0	35.0	38.0	40.0
Physical Plant Administrators	5.0	7.0	9.0	10.0	12.0	12.0	12.0	13.0	15.0
<b>Total Professional Staff</b>	<u>39.0</u>	<u>46.0</u>	<u>57.0</u>	<u>64.0</u>	<u>76.0</u>	<u>80.0</u>	<u>84.0</u>	<u>93.0</u>	<u>99.0</u>
<b>Non-Academic:</b>									
Instruction & Research	34.6	124.7	165.4	207.7	247.1	235.8	329.2	368.7	410.3
Clerical-Administrative	80.0	117.0	137.0	155.0	169.0	187.0	203.0	216.0	232.0
Clerical-Library	46.0	48.0	50.0	52.0	54.0	56.0	53.0	60.0	62.0
Physical Plant--Non-professional	<u>105.0</u>	<u>124.0</u>	<u>162.0</u>	<u>201.0</u>	<u>231.0</u>	<u>279.0</u>	<u>320.0</u>	<u>358.0</u>	<u>385.0</u>
<b>GRAND TOTAL POSITIONS</b>	<u>675.4</u>	<u>883.7</u>	<u>1,120.6</u>	<u>1,344.2</u>	<u>1,567.7</u>	<u>1,802.4</u>	<u>2,043.3</u>	<u>2,275.5</u>	<u>2,511.1</u>







## APPENDIX VI

## BUILDING PROGRAM BUDGET FOR MULTI-FUNCTIONAL ONE BUILDING

December 1, 1970

## CONSTRUCTION

Structure		\$ 2,500,000
Air Conditioning (Central Equip)		225,000
Exterior Utilities		65,000
A-C Distribution	4,500	
Water & Sewer	4,000	
Electric & Telephone	56,500	
Site Improvement		556,000
Plaza & Landscape	190,000	
Roads & Parking	366,000	

## PROFESSIONAL SERVICES

DGS Administration (1/2 X 2,980,000)	15,000	274,000
Architect Fees (6.2% X 2,500,000)	155,000	
Engineer Fees (7.0% X 847,000)	59,000	
Surveys, Site Investigation	15,000	
Resident Supervision	30,000	

FURNITURE & EQUIPMENT (18% X 2,500,000)	450,000
includes Multi-Purpose Building modifications (N.I.C.)	.

CONTINGENCIES (4% X 3,346,200)	130,891
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TOTAL PROJECT COSTS	4,200,891
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DIAGRAM 1: FUNCTIONAL RELATIONSHIPS OF BUILDING AREAS

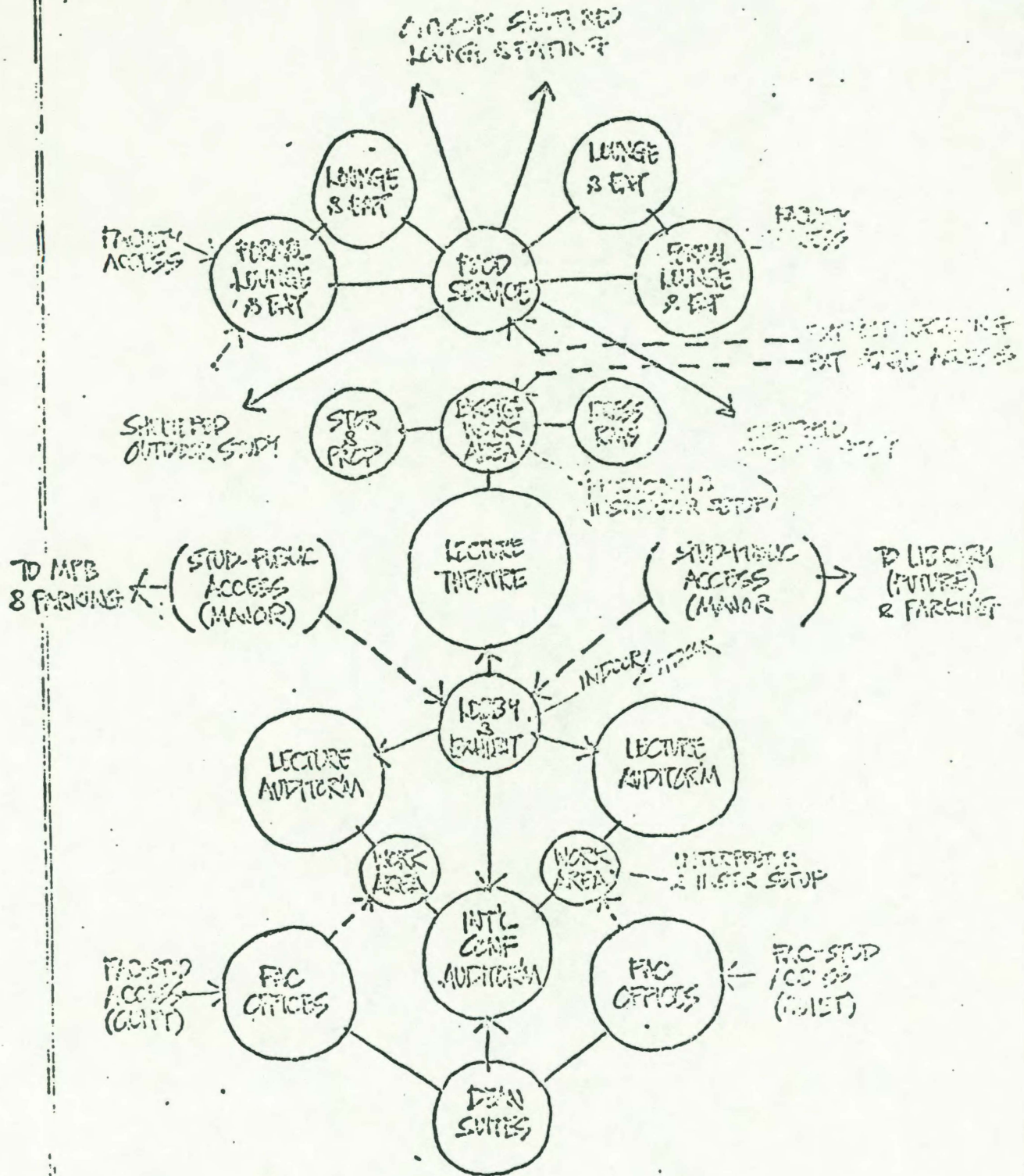




DIAGRAM 2: FUNCTIONAL RELATIONSHIPS OF FACULTY OFFICES

Note:

Secretarial Pool varies 1-4 per faculty Group.  
 Mode: 2; mean: 1.66 Sec. per Fac. Group including P.H. secretary.

Faculty Office Groups varies 1-12 per Program Head.

Mode: 4; mean: 4.33 Fac. per P.H. Office.

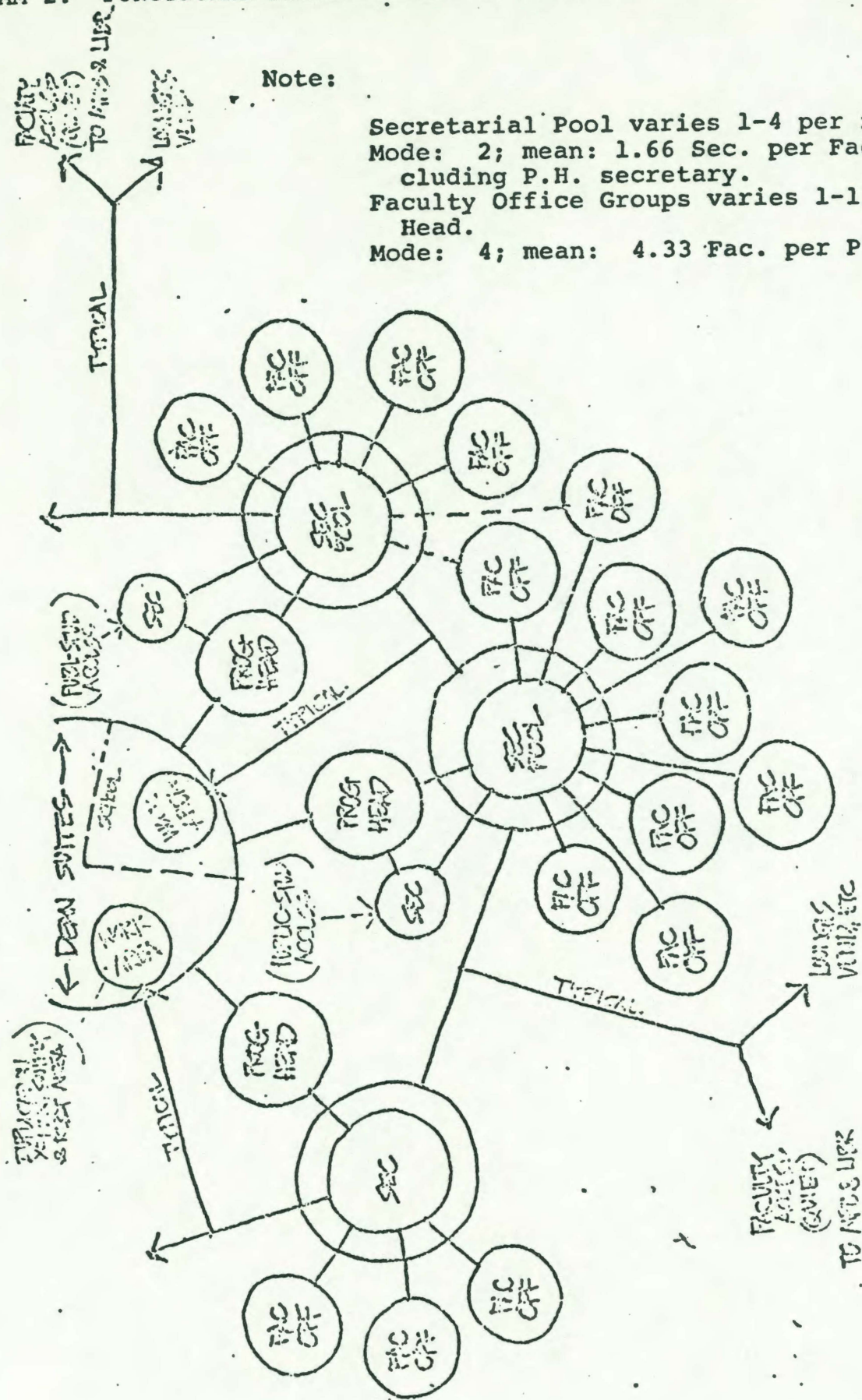
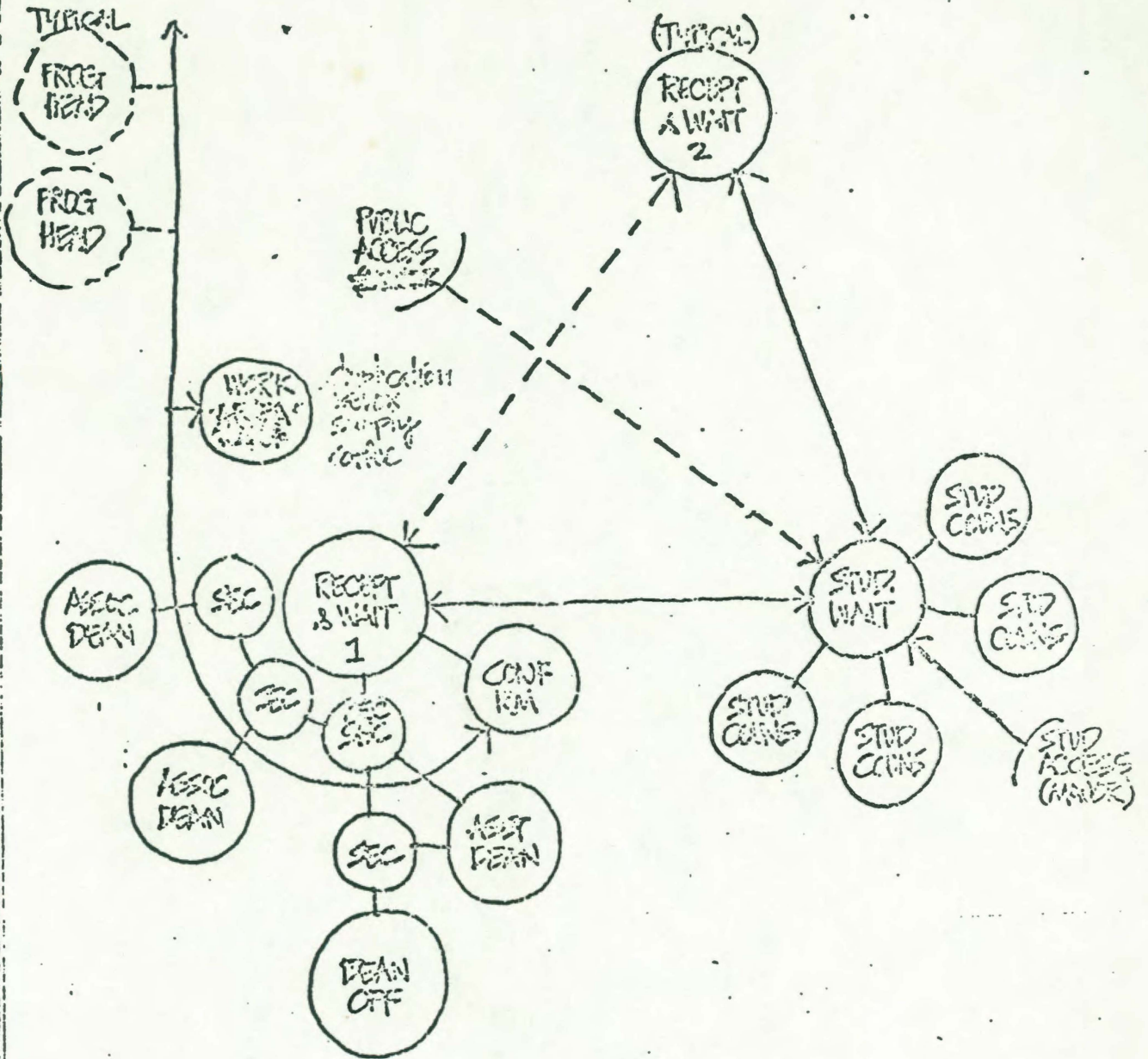




DIAGRAM 3: FUNCTIONAL RELATIONSHIPS OF DEAN/COUNSELING AREAS



Note: Student counselor groupings vary 2-10 by each Dean's Area, and should be flexible in group size. Grouping mode: 2-3; mean 4 counselors per Dean Area.



