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An elementary educational facility for Albuquerque, New Mexico.

Arba Stinnett

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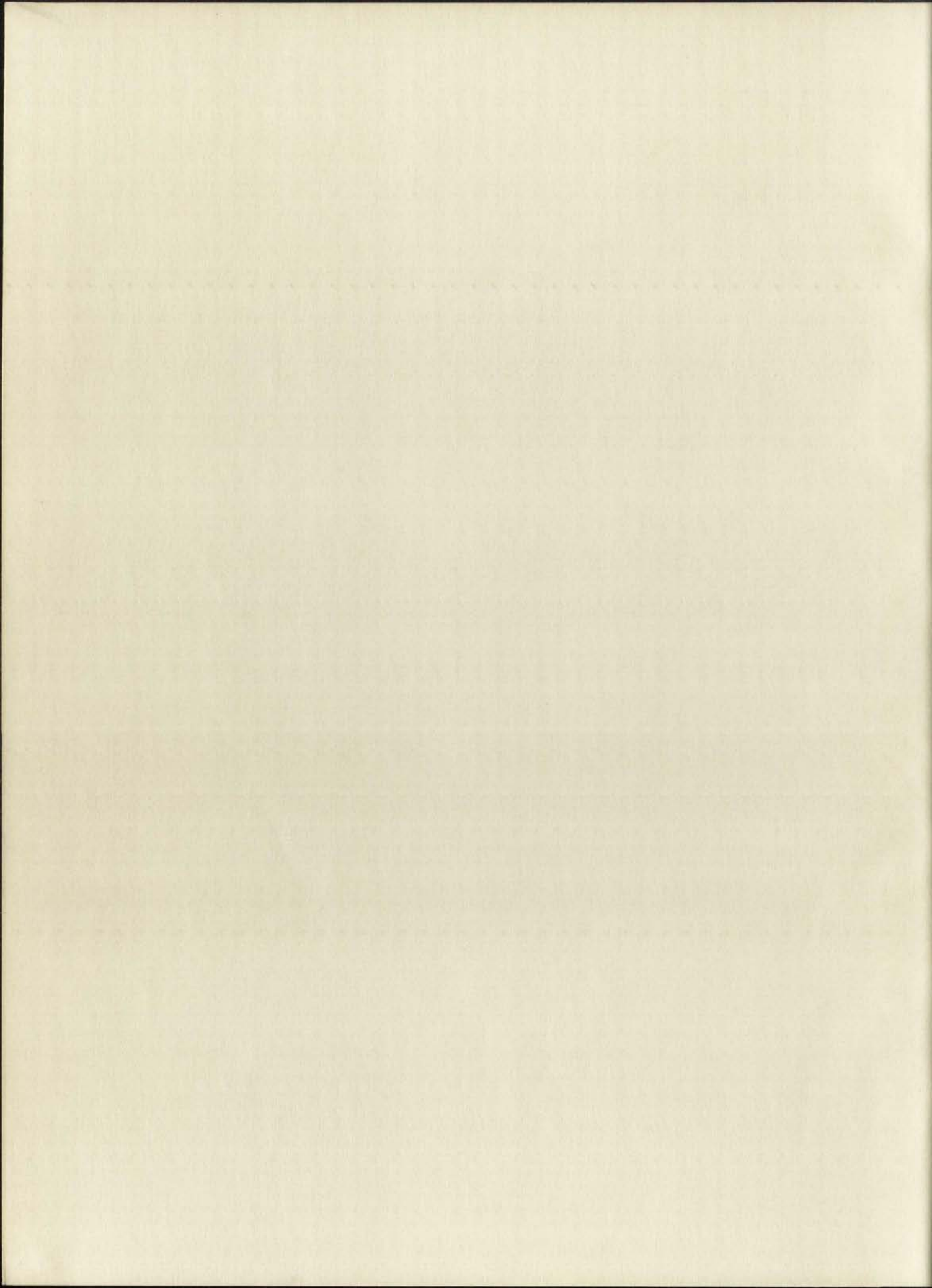


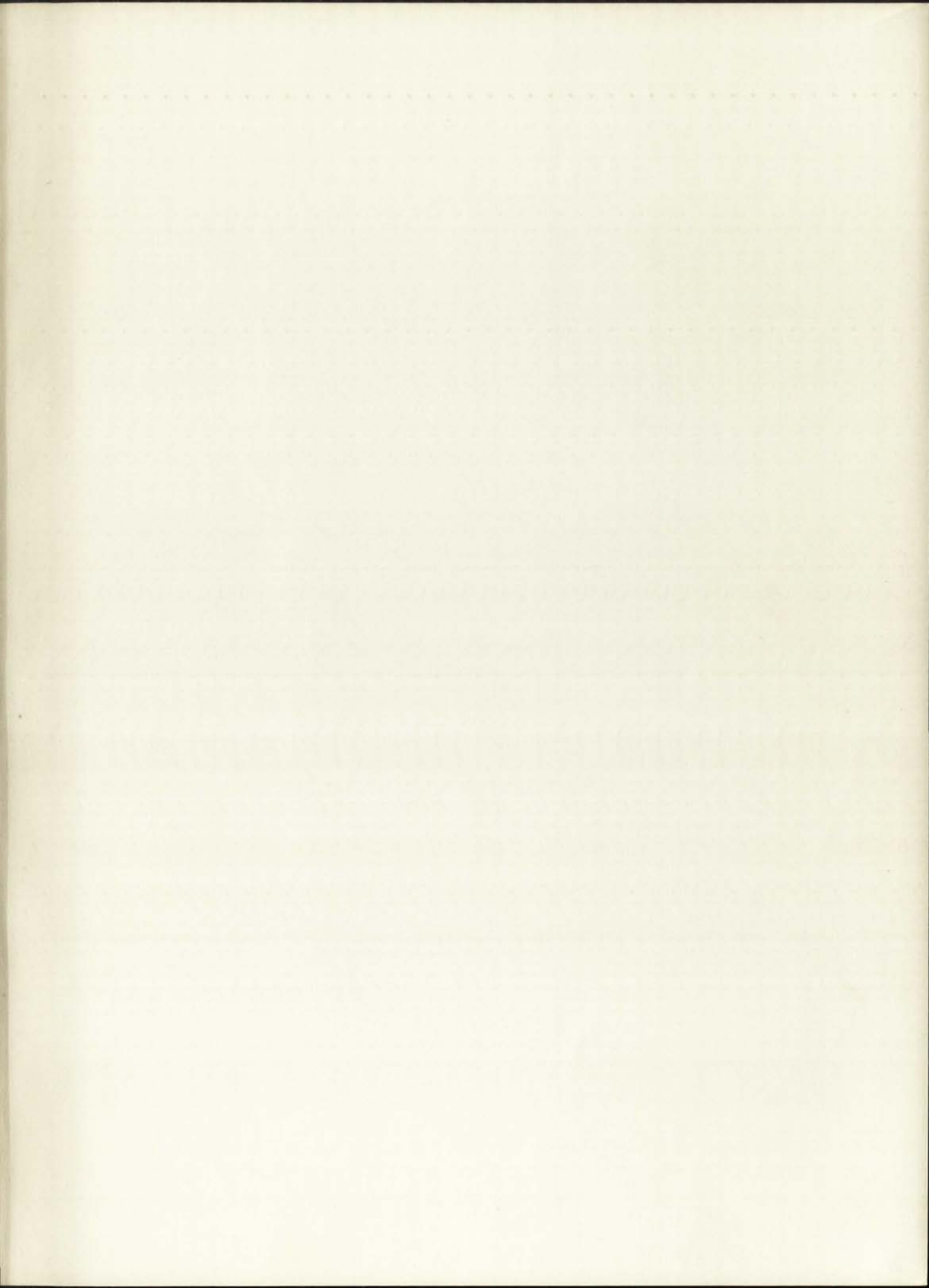
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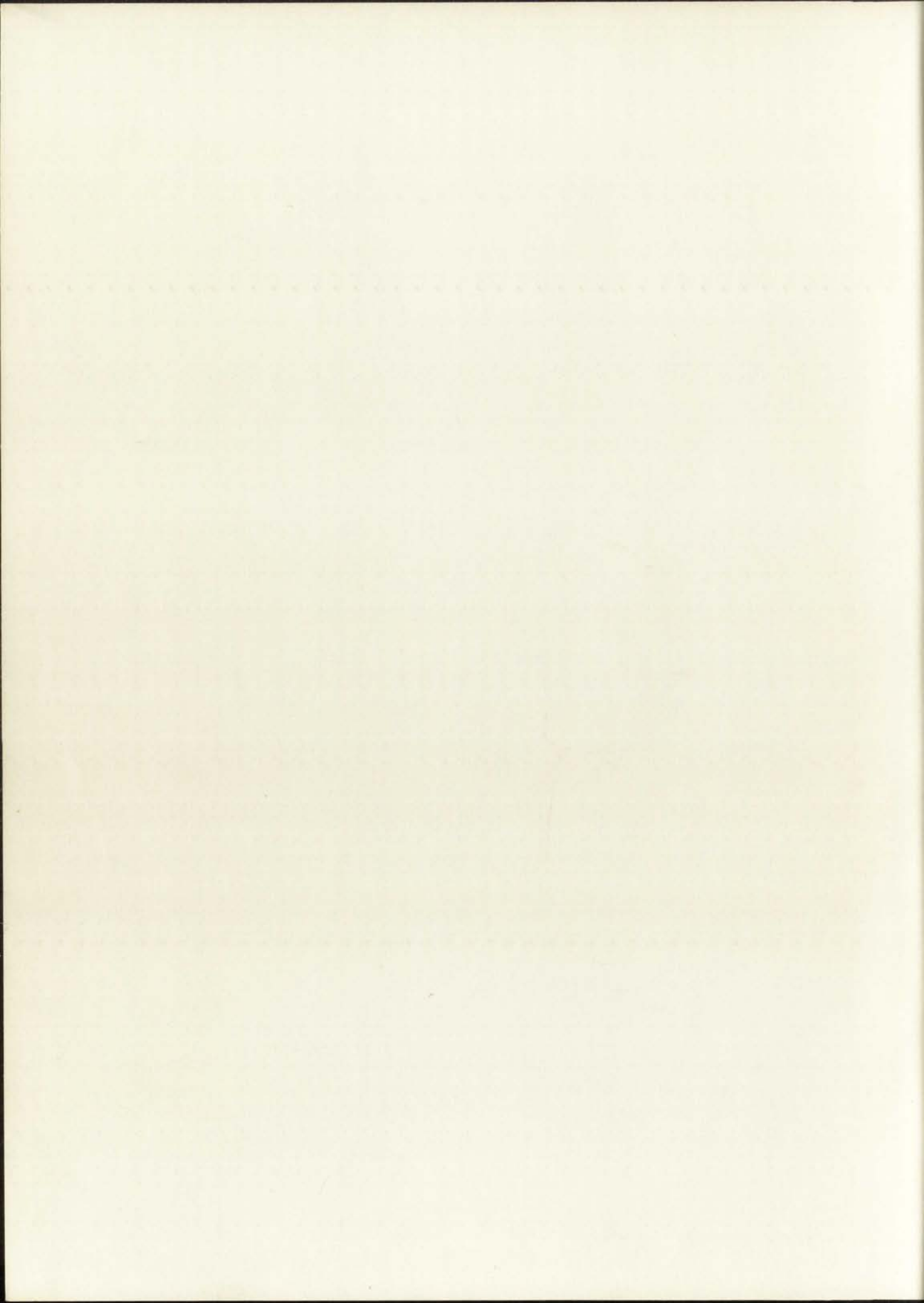
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A BACHELOR'S THESIS
presented to the
DEPARTMENT OF ARCHITECTURE

in partial fulfillment for the
degree of Bachelor of Architecture

UNIVERSITY OF NEW MEXICO
Albuquerque, New Mexico

presented
by

Arba Stinnett

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AN ELEMENTARY EDUCATIONAL FACILITY

for

Albuquerque, New Mexico

433015

"Better teaching depends on better facilities. One of the biggest problems in American education is the cell block principles on which most schools are built. It has been going on for more than one hundred years, ever since children were first separated into classes by age groups. Traditionally every class got its own teacher in its own room and both students and teachers remained in isolation. If the teacher wasn't competent in all subjects, the student suffered. If the students were brighter or slower than the average, they suffered. Today we try to solve these problems by grouping students of similar capabilities together, giving them specialized learning conditions by groups of specialized teachers so to give each child a chance to learn at his own pace, to give him the best knowledge each teacher can provide, we move both children and teachers around, combine classes or split them up, make both teaching and learning really flexible.

General Requirements

School to offer 5 year basic elementary curriculum to vary with the individual student.

Classes to be organized on tri-semester system. The student will be scheduled for two of the three semesters, faculty will be employed for the three semesters enabling them to work the full year as other professional people. This provides a 50% increase in the use of the physical facilities and an upgrade of the teaching profession.

Total Enrollment -- 750 students

Each student has a 7 hour day including lunch and free time.

Each hour operation to be divided into four- fifteen (15) time modules.

Total time modules per week = 140 modules.

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Curriculum requirement to include five years each:

- Reading
- Language Arts
- Arithmetic
- Social Studies
- Science
- Music - Art - Physical Education

Student body is assumed to be equally divided as to grade level and sex.

All space requirement calculations are based on 100% occupancy of the space and on the space being in use 80% of the operation time.

Teaching Schedule Breakdown

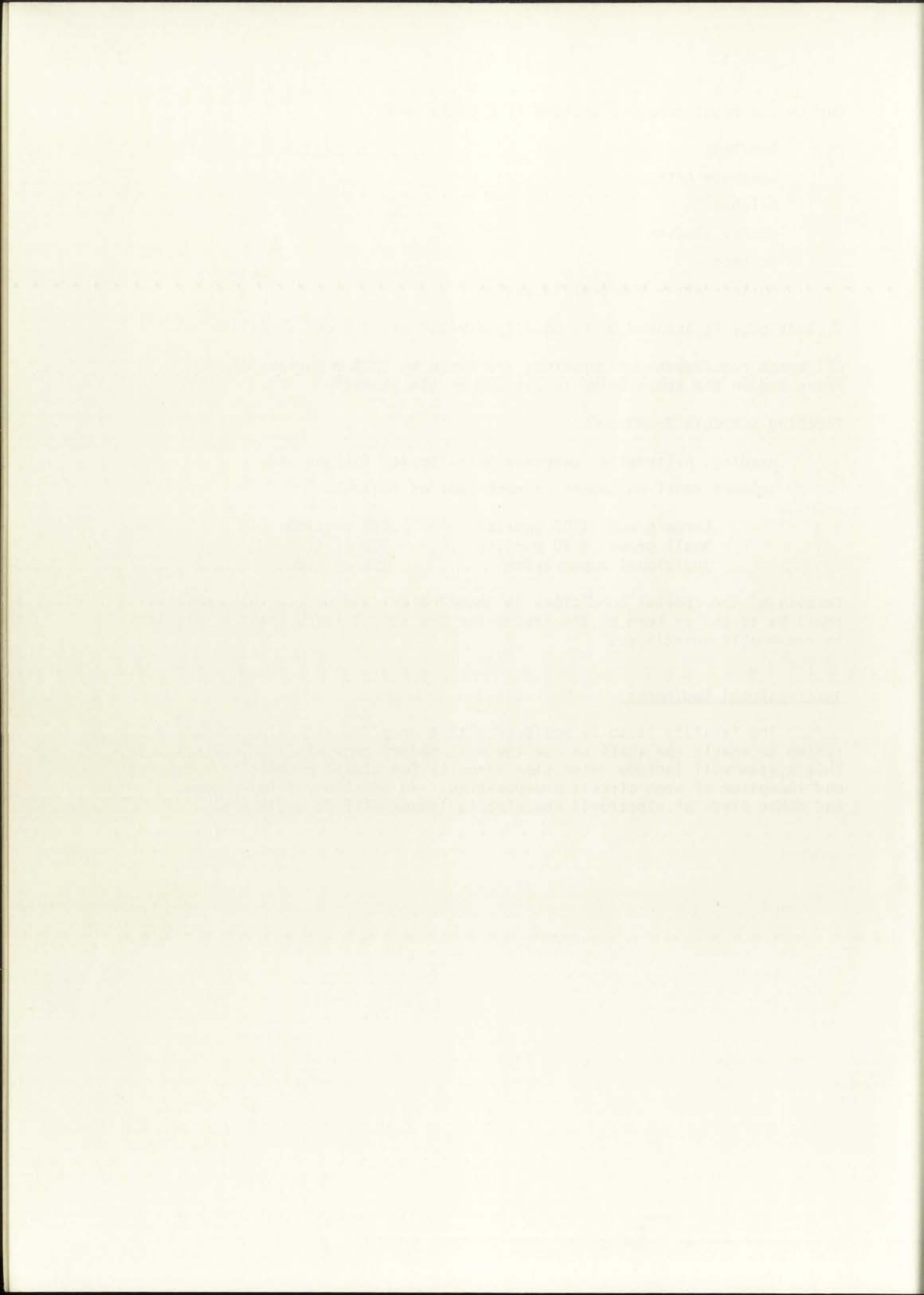
Reading, Arithmetic, Language Arts, Social Science and Science shall be taught in each year as follows:

Large group (100 pupils)	25% of time
Small group (10 pupils)	50% of time
Individual supervision	25% of time

Because of the special conditions in teaching art and music, these courses shall be taught as seen by the instructor and studio space shall be provided in reasonable quantities.

Instructional Equipment

The facility is to be equipped with a complete education communication system to enable the staff to use the most modern communication devices. This system will include television circuits for closed circuit broadcasting and reception of open circuit broadcasting. In addition, films, tapes, and other kinds of electronic teaching equipment will be available.



WEEKLY STUDENT MODULE BREAKDOWN

<u>Level</u>	<u>Reading</u>	<u>Lang. Arts</u>	<u>Arithmetic</u>	<u>Soc. St.</u>	<u>Science</u>	<u>Music</u>	<u>Art</u>	<u>Phys. Ed.</u>	<u>Free Time</u>	<u>Lunch</u>
1	30	10	10	10	10	5	5	30	10	20
2	30	10	10	10	10	5	5	30	10	20
3	25	10	10	10	10	8	5	25	10	20
4	20	10	10	15	10	8	8	20	10	20
5	20	10	10	15	10	8	8	20	10	20



Site Description

The site is located in the Northeast Heights of Albuquerque, New Mexico near the intersection of Wyoming and Montgomery. It is to be bounded by mixed transportation arteries and surrounded by residential development. The land, as it now exists, is of a sandy nature with limited vegetation, mainly consisting of mesquite.



Space Requirements

Reading, Social Sciences, Language Arts, Arithmetic and Science

Large group instruction

Need: 80 modules x 750 students = 15,000 student modules

Availability: 140 modules x 100 students x .8 f.f. = 11,200 S.M./facility

Provided: 2 - 100 student group area

Small group instruction

Need: 80/2 modules x 750 students = 30,000 S.M.

Availability: 140 modules x 10 students x .8 f.f. = 1,120 S.M./facility

Provided: 32 - 10 student areas

Individual supervision

Need: 80 modules x 750 students = 15,000 S.M.

Availability: 140 modules x 100 students x .8 f.f. = 11,200 S.M./facility

Provided: 2 - 100 student study areas

Art*

Need: 8 modules x 750 students = 600 S.M.

Availability: 140 modules x 50 students x .8 f.f. = 5600 S.M./facility

Provided: 1 - 50 student areas

Music*

Need: 8 modules x 750 students = 6000 S.M.

Availability: 140 modules x 50 students x .8 f.f. = 5600 S.M./facility

Provided: 1 - 50 student areas

*Note: Art and Music are to be flexible spaces integrated with the Multi-Use Area to handle overflow.



Multi-Use Area (Cafeteria and Physical Education)

Enclosed area for 250 students eating, also to be used for physical education area.

Hot food, receiving, warming, one serving area.

Administration - (See breakdown)

Miscellaneous Areas

Toilet
Maintenance
Mechanical Equipment

Estimated Sizes of Areas

Reading, Social Science, Language Arts, Arithmetic, and Science

2 - 100 Student Instruction Areas @ 2,500 sq. ft.	5,000 sq. ft.
32 - 10 Student Seminar Areas @ 200 sq. ft.	6,400 sq. ft.
2 - 100 Individual Supervision @ 300 sq. ft.	6,000 sq. ft.

Art

2 - 25 Student Work Areas @ 500 sq. ft.	1,000 sq. ft.
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Music

1 - 50 Student Multi-Use Areas @ 500 sq. ft.	1,000 sq. ft.
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Multi-Use Area

1 - 250 Student Dining Areas	5,000 sq. ft.
Food Receiving and Serving	750 sq. ft.
1 - Office @ 100 sq. ft.	100 sq. ft.

Administration

Principal's Office	200 sq. ft.
Assistant Principal's Office	200 sq. ft.
Reception and Secretary	200 sq. ft.
Nurse's Office	150 sq. ft.
File Room	50 sq. ft.
Conference Room	300 sq. ft.
Workroom	300 sq. ft.
50 Teacher's carrels @ 30 sq. ft.	1,500 sq. ft.
Lunge and Toilets	350 sq. ft.



Miscellaneous Areas:

Toilets - 3 sets @ 400 sq. ft.	1,200 sq. ft.
Maintenance - 3 areas @ 100 sq. ft.	300 sq. ft.
Mechanical equipment	750 sq. ft.
Central storage	500 sq. ft.
Building Storage Shop and Maintenance	500 sq. ft.
Circulation	30%
TOTAL	38,000 sq. ft.



AN ELEMENTARY SCHOOL

presented to the

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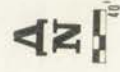
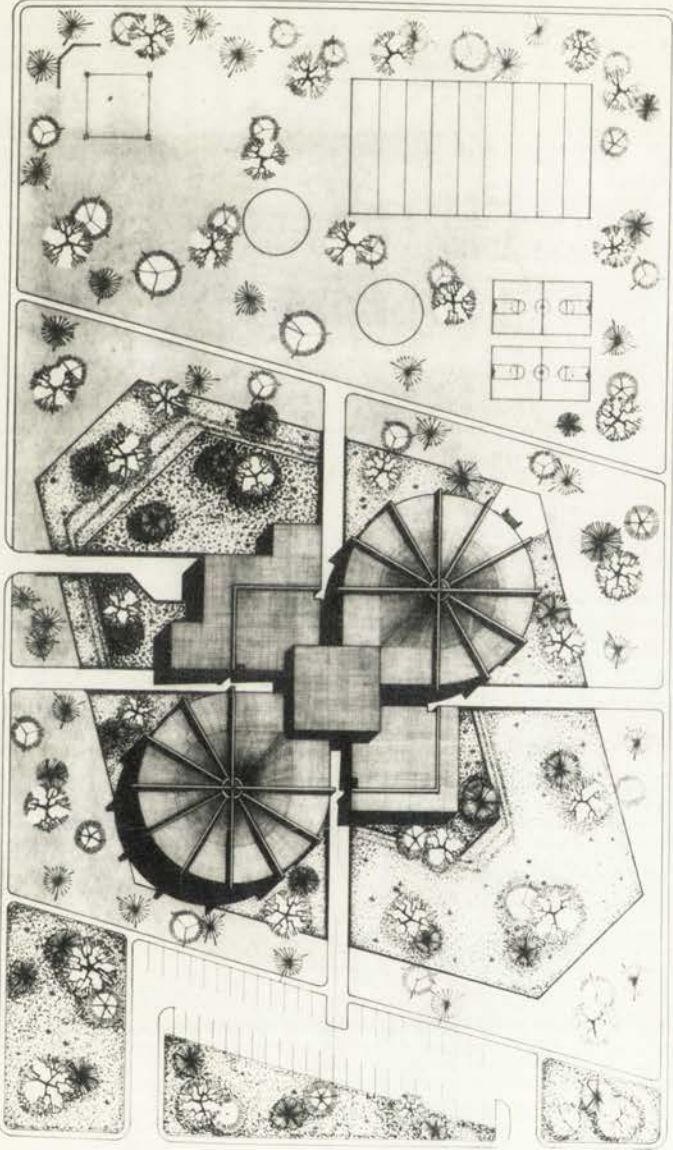
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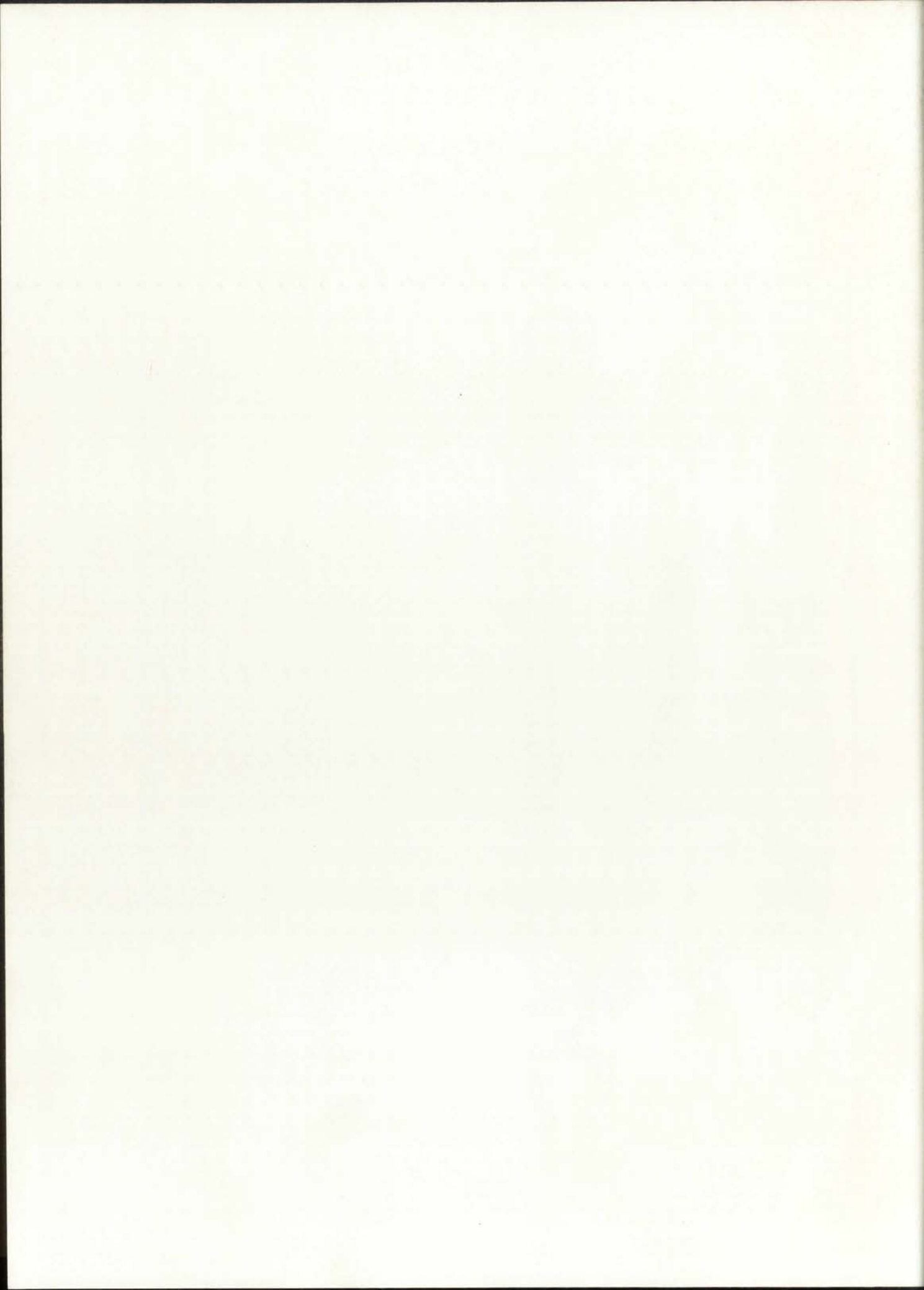
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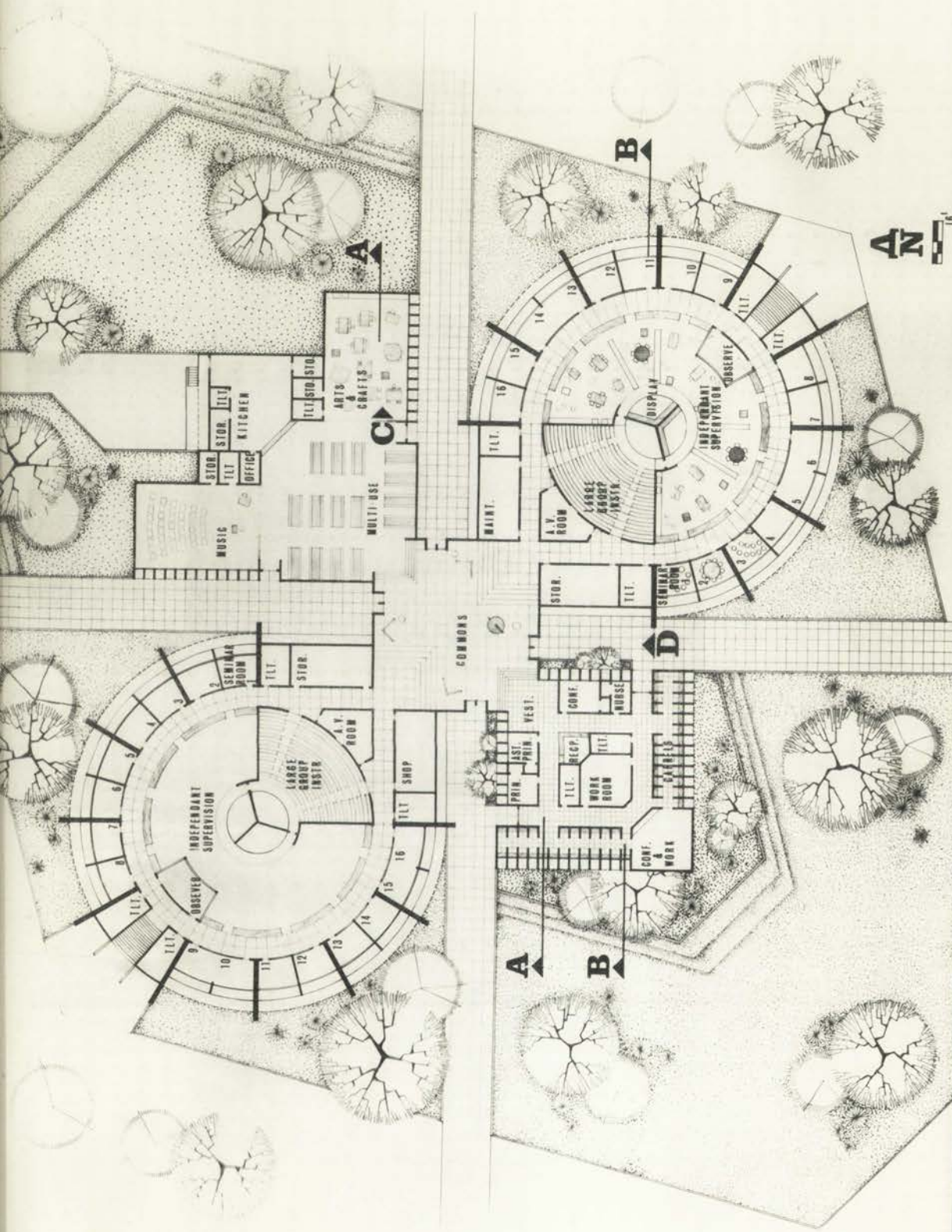
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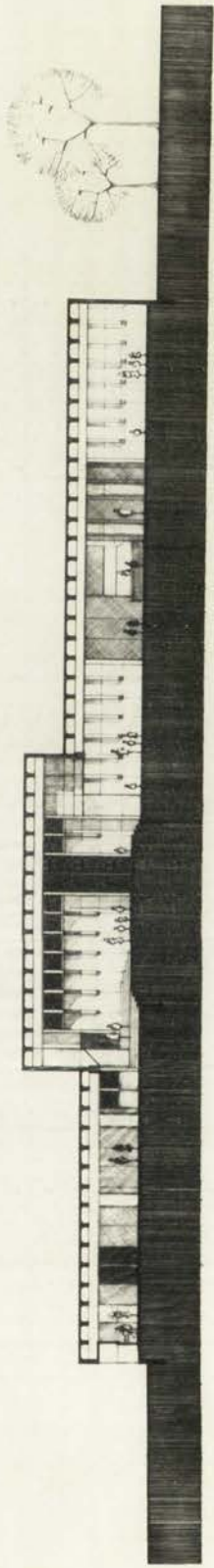
SITE PLAN 1" = 40'-0"



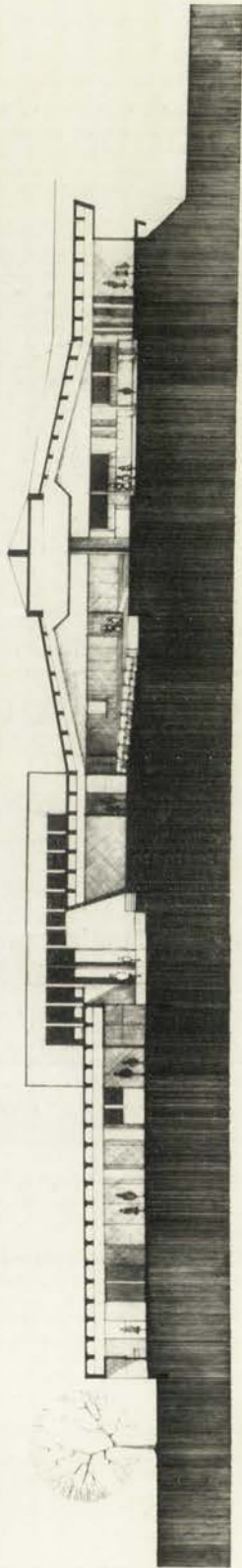


FLOOR PLAN $\frac{1}{16}'' = 1'-0''$





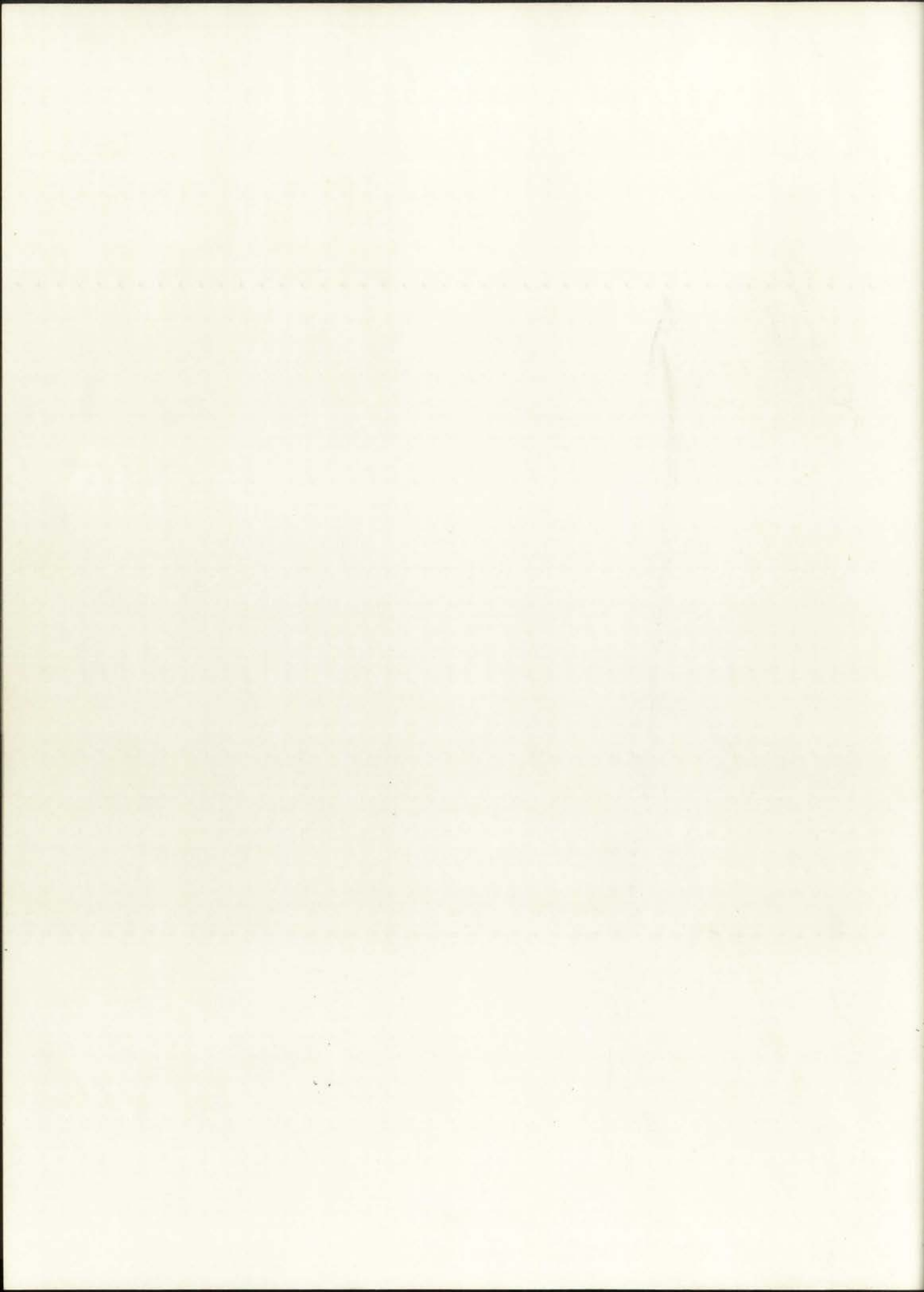
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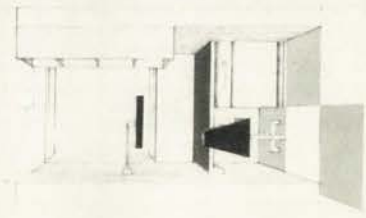


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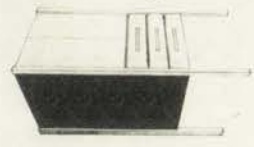




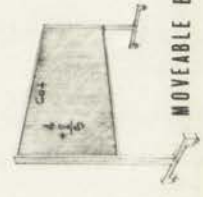
TEACHER'S CABINET



INDEPENDANT STUDY TABLE



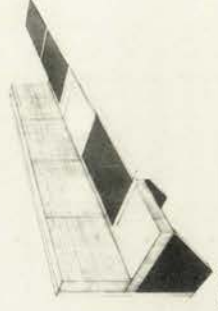
STORAGE & DISPLAY



MOVEABLE BOARD



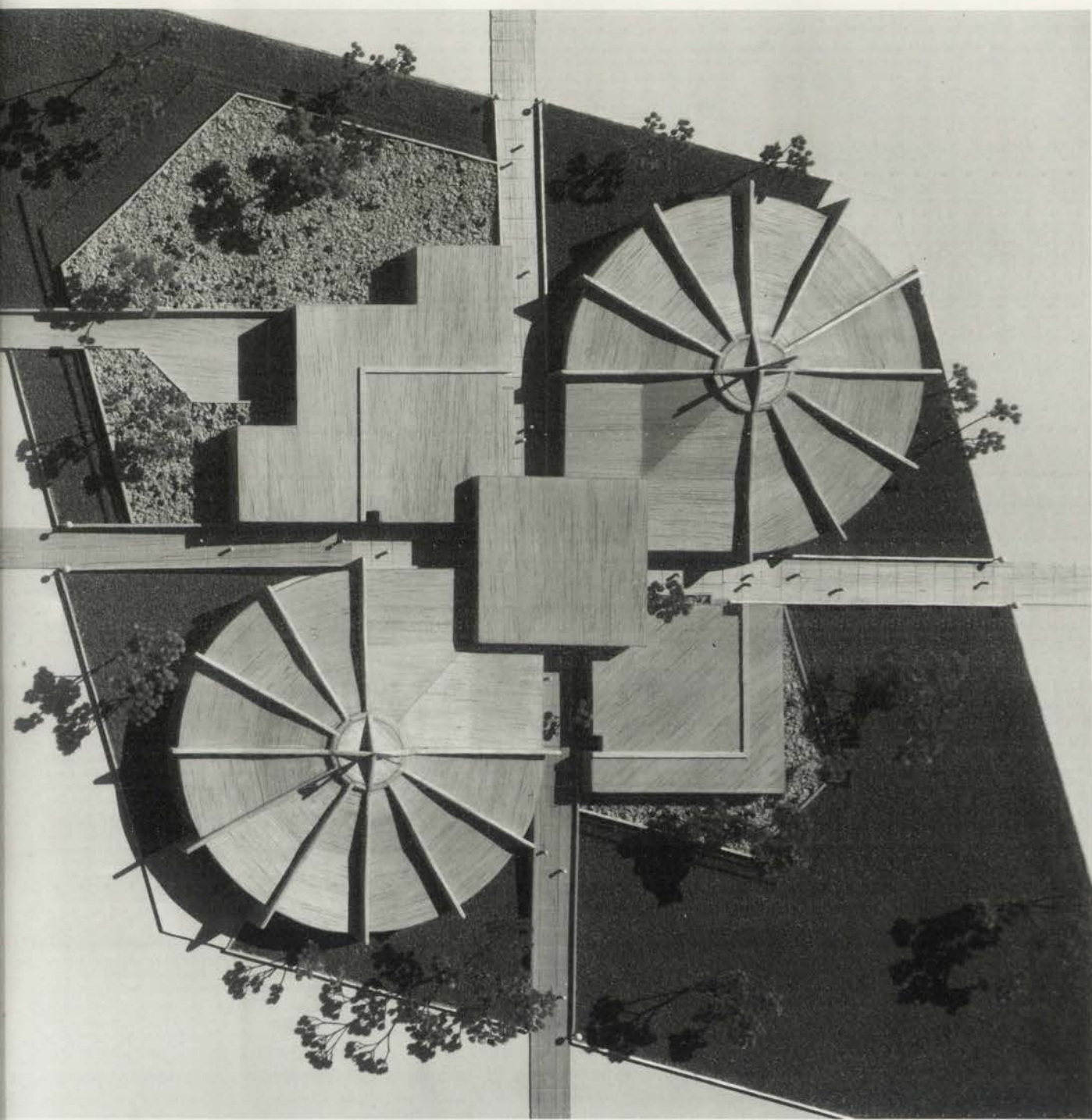
T.V. MOUNTING



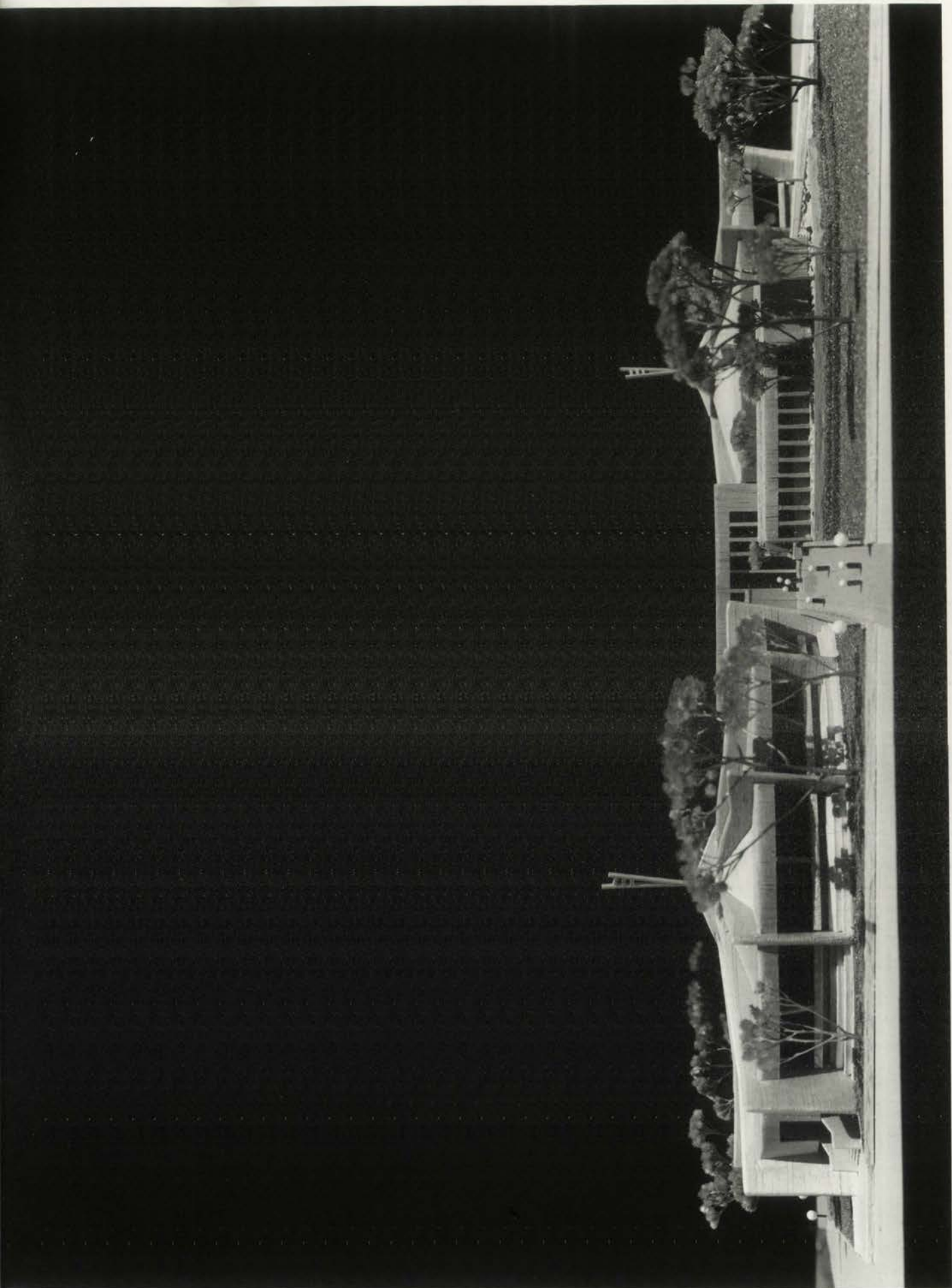
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