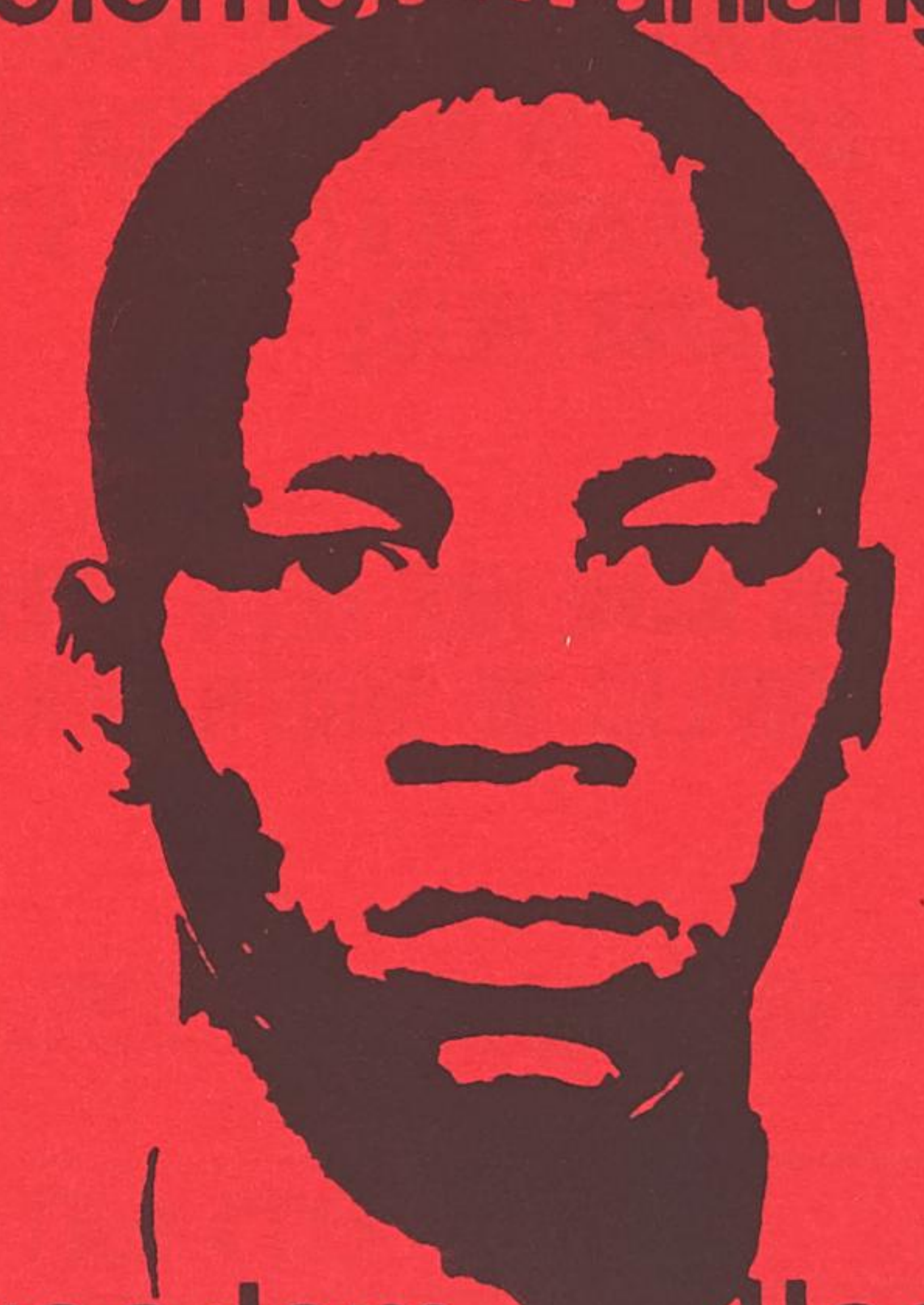


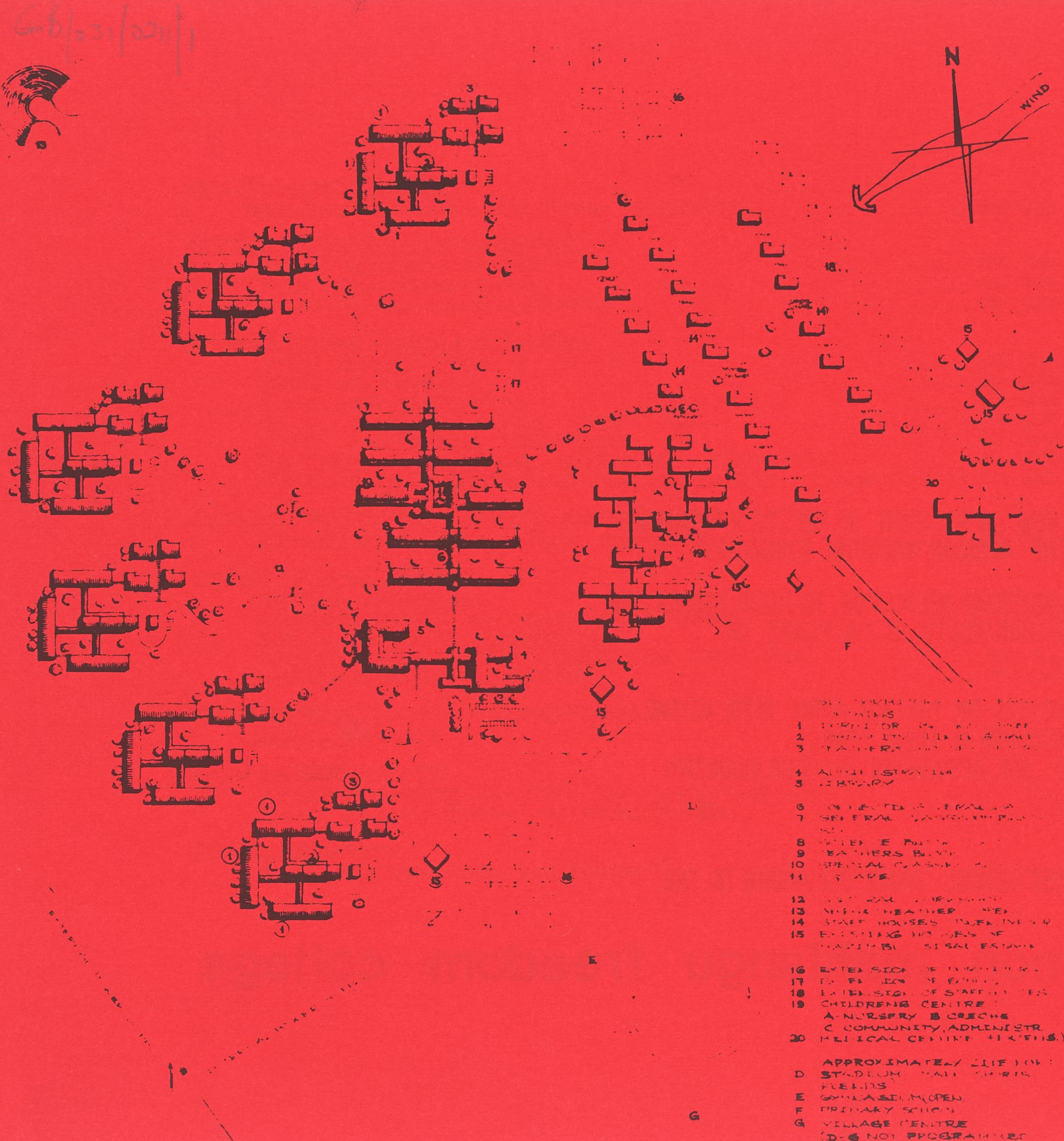
project description 1  
nov 1979

# A.N.C. (SA) SCHOOL BUILDING PROJECT

solomon mahlangu



freedom college





SOLOMON MAHLANGU WAS ONE OF THE NEW GENERATION OF FREEDOM FIGHTERS  
WHO HAVE SWELLED THE RANKS OF THE AFRICAN NATIONAL CONGRESS.

HIS HEROISM, LOVE FOR HIS PEOPLE AND TOTAL DEDICATION TO THEIR LIBERATION  
EPITOMISE THE QUALITIES REQUIRED OF OUR YOUTH IN THE YEARS OF  
STRUGGLE AHEAD.

HIS MURDER AT THE HANDS OF THE FASCISTS ON THE 6th APRIL 1979, AT THE  
AGE OF 19 WAS INDICATION OF THE MEASURE OF THEIR FEAR;  
HIS BRAVE DEATH HAS STRENGTHENED OUR RESOLVE TO RID OUR COUNTRY  
OF APARTHEID;

HIS NAME HAS BEEN GIVEN TO THE FIRST SCHOOL TRULY BELONGING TO THE  
PEOPLES OF SOUTH AFRICA...

**solomon mahlangu freedom college**



BACKGROUND	
BACKGROUND TO THE PROJECT	..... B. 01
SITE DEVELOPMENT	
SITE DESCRIPTION	..... S. 01
THE EXISTING SITE	..... S. 02
THE SITE DEVELOPED	..... S. 03
FUNCTION AND DESIGN	
THE DORMITORY UNIT	..... D. 01, D. 02, D. 03
THE SCHOOL	..... D. 04, D. 05,
THE STUDENTS	..... D. 06
THE CHILDRENS CENTRE	..... D. 07
THE MEDICAL CENTRE	..... D. 08
SPORT AND THE VILLAGE CENTRE	..... D. 09
VOCATIONAL TRAINING, STORES, FARMING	D. 10
CONSTRUCTION AND DESIGN	
CONSTRUCTION AND DESIGN	..... C. 01
COST ANALYSIS	
TOTAL COSTS	..... A. 01
WORKSHEET DORMITORY UNIT	..... A. 02
WORKSHEET SCHOOL	..... A. 03
WORKSHEET CHILDRENS CENTRE	..... A. 04
WORKSHEET AREAS	..... A. 05
CONSTRUCTION PROGRAMME	
BAR CHART	..... P. 01
MANAGEMENT	
THE CONSTRUCTION MANAGEMENT	..... M. 01
THE EDUCATION STRUCTURE	..... M. 02
PROGRESS	
1ST PROGRESS REPORT	..... R. 01

A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
CONTENTS	00
ANC MOROGORO TECHNICAL COMMITTEE - LN/SH	



## BACKGROUND TO THE PROJECT

Work on the site began in October 1977 with the cleaning up and renovating of the disused buildings, the clearing of the land and the planning and design of the project.

At the beginning of 1979, construction work on the first dormitory unit commenced. Temporary sewage, water and electricity have been laid on not only for the construction but also for the present population of over 150 students and teachers. This temporary arrangement will be adequate to serve the planned growth until the permanent water and electrical supply is completed.

Most of the existing buildings have been renovated, a temporary kitchen/dining hall has been set up for the students and the first dormitory unit is nearing completion.

Due to the breakdown at the cement factory in Dar es Salaam (caused by a burnt out oven), production ceased for a full 10 weeks. The subsequent shortage of diesel has further retarded the flow of cement and caused additional delays to our original programme, which now appears in revised form.

Construction has commenced on the first 2 classroom blocks and the digging of foundations is in progress. The second dormitory unit will go on site shortly and 1980 will see the start of the foundation work of the medical centre.

On the farming side, the first poultry unit for 1000 layers has been built and is supplying eggs to the present population. 1000 orange trees and about 500 banana trees have been planted while the vegetable garden supplies most of the present needs and the piggery near Mazimbu is being upgraded. 70 acres of maize were harvested last season.

The school, though not officially opened, has been teaching Form 1 - Form 5 classes since May of this year, following the appointment of the Principal and a small group of teachers.

Curricula are being developed by the ANC Education Committees in various countries abroad as well as on the spot.

Adult education training was introduced from the inception. In addition to literacy classes both for ANC personnel and Tanzanian workers, ANC cadres have been prepared for vocational training and technical scholarships abroad. Indeed, some have already returned and are now assisting with the construction.

Our Construction Programme for 1980, which envisages an increase in production of 400% over 1979, and is indicative of our determination to complete this historic project in the shortest time possible. With the continued support of world solidarity, we are confident that these goals can be achieved.

A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
BACKGROUND	B.01
ANC MOROGORO TECHNICAL COMMITTEE - SH	



## SITE DESCRIPTION

Thanks to the generosity and solidarity of the Tanzanian Government, which has granted 250 acres of land (with the promise of a further 350 acres), the ANC has commenced with the construction.

The site lies 8 kilometers from Morogoro and was formerly part of Mazimbu Sisal Estate. Several existing houses, as well as the old factory buildings have proved invaluable in setting up the process of construction.

The Eastern boundary is formed by Ngerengere River, which provides water for building, irrigation and for temporary domestic use.

The site is bordered by a dry river bed to the South and a railway track to the North. It is hoped that the additional land can be obtained in the West for cash crop farming.

The land slopes gently (approx 1 ; 75) from the river in the East to a hill in the West and soil conditions are good for both construction and farming.

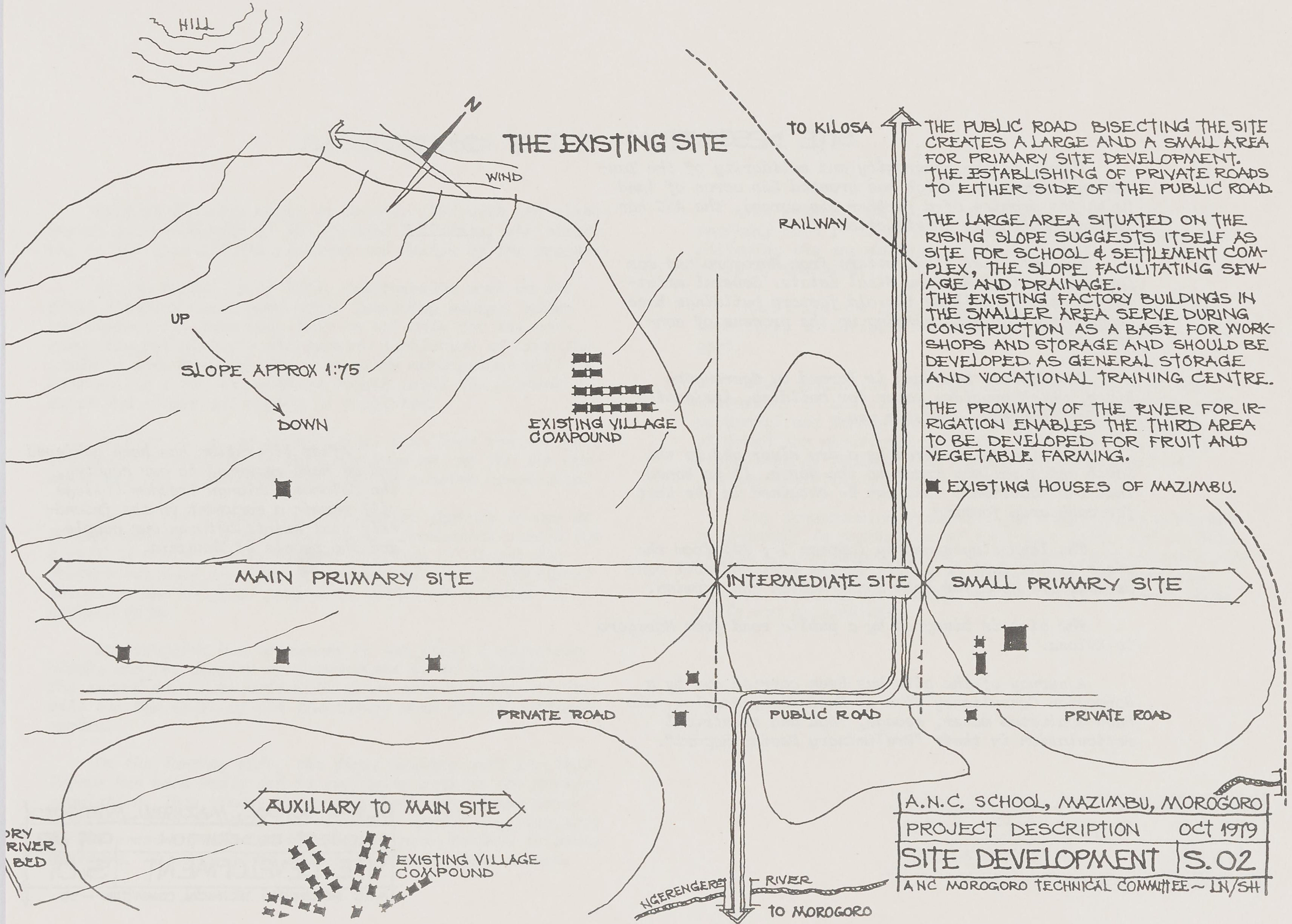
The site is bisected by a public road from Morogoro to Kilosa.

A survey of the site has been carried out by a Norwegian Consultancy firm of Engineers, Norplan, who have evaluated water, sewage, road and electrical reticulation in their "Preliminary Design Report".

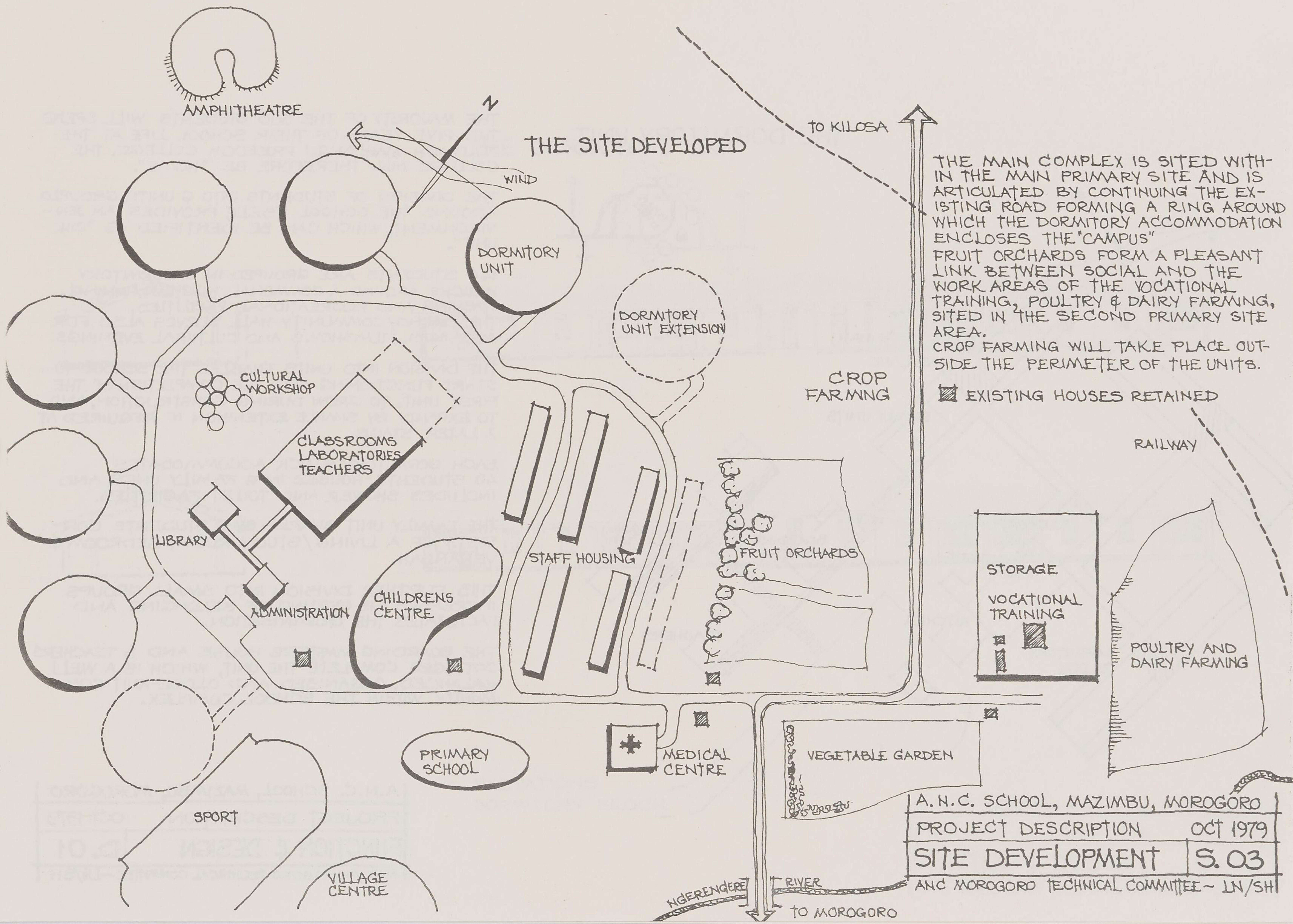
After liberation has been achieved and we have returned to our country, the Solomom Mahlangu Freedom College will remain a monument to the friendship that exists between our people and the people of Tanzania.

A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
SITE DEVELOPMENT	S.01
ANC MOROGORO TECHNICAL COMMITTEE - SH	





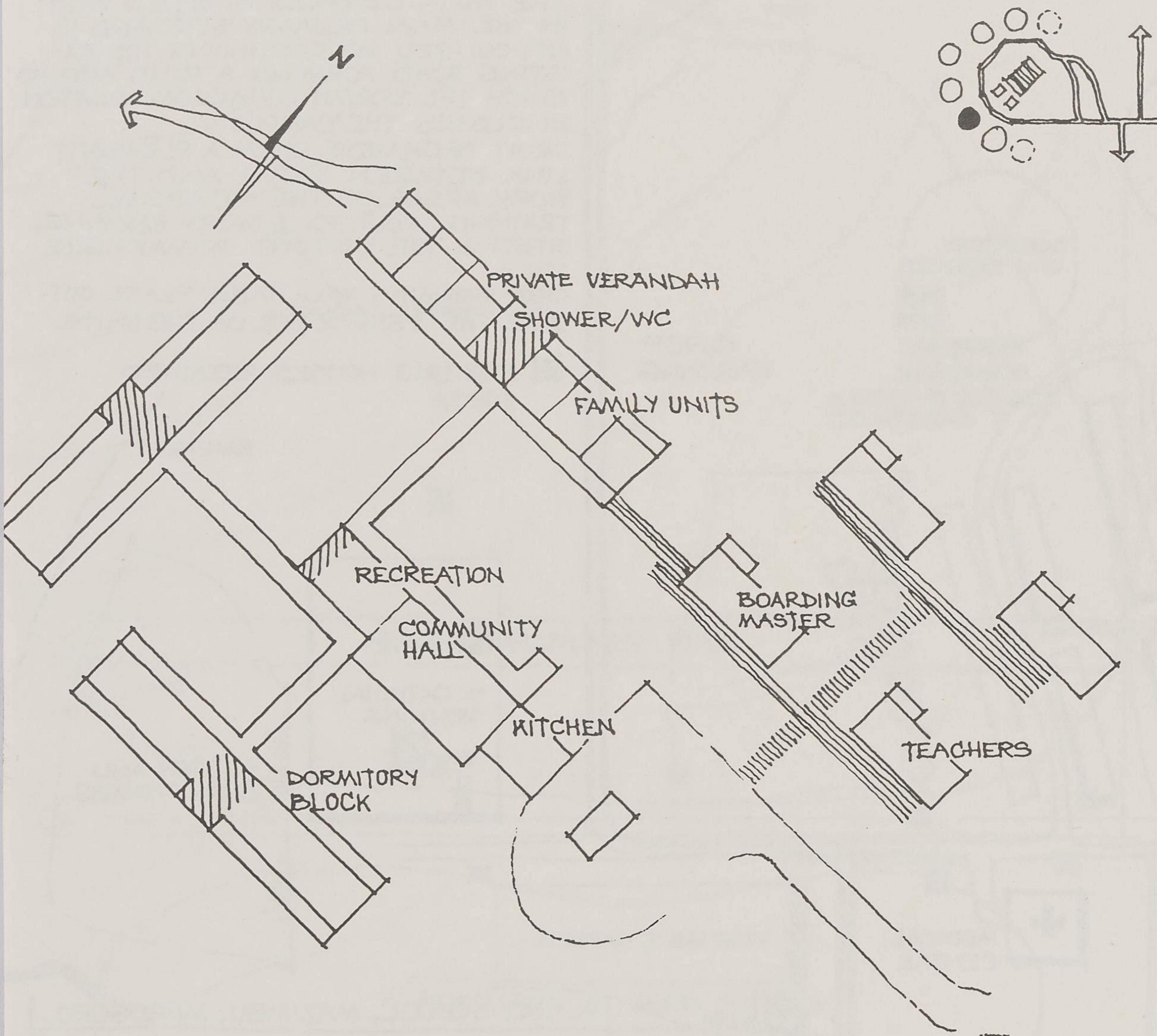




A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
SITE DEVELOPMENT	S.03
AND MOROGORO TECHNICAL COMMITTEE - LN/SH	



## THE DORMITORY UNIT



THE MAJORITY OF THE 900 STUDENTS WILL SPEND THE FIVE YEARS OF THEIR SCHOOL LIFE AT THE SOLOMON MAHLANGU FREEDOM COLLEGE. THE COLLEGE WILL THEREFORE BE "HOME".

THE DIVISION OF STUDENTS INTO 6 UNITS, GROUPED AROUND THE SCHOOL ITSELF, PROVIDES AN ENVIRONMENT, WHICH CAN BE IDENTIFIED AS "OUR UNIT".

144 STUDENTS ARE GROUPED IN 3 DORMITORY BLOCKS AROUND A COMMUNAL KITCHEN/DINING, WASHING AND RECREATIONAL FACILITIES. THE DINING/COMMUNITY HALL SERVES ALSO FOR MEETINGS, FILMSHOWS AND CULTURAL EVENINGS.

THE DIVISION INTO UNITS ENABLES THE SCHOOL TO START FUNCTIONING WITH THE COMPLETION OF THE FIRST UNIT, TO GROW DURING CONSTRUCTION, AND TO EXPAND BY SIMPLE EXTENSION IF REQUIRED AT A LATER STAGE.

EACH DORMITORY BLOCK ACCOMMODATES 48 STUDENTS HOUSED IN 6 FAMILY UNITS, AND INCLUDES SHOWER AND TOILET FACILITIES.

THE FAMILY UNIT SHARED BY 8 STUDENTS CONSISTS OF A LIVING/STUDY ROOM, BEDROOM & VERANDAH.

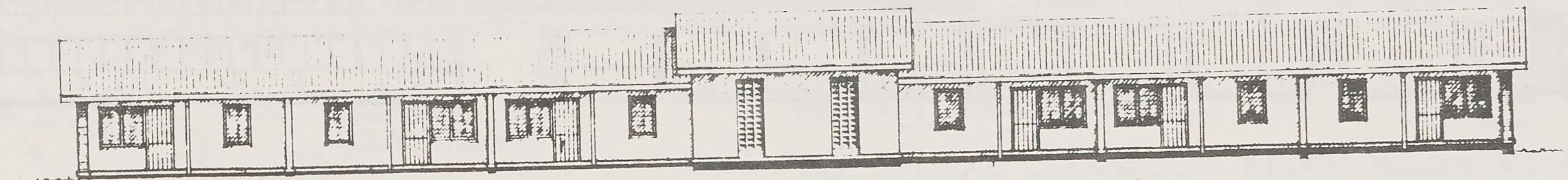
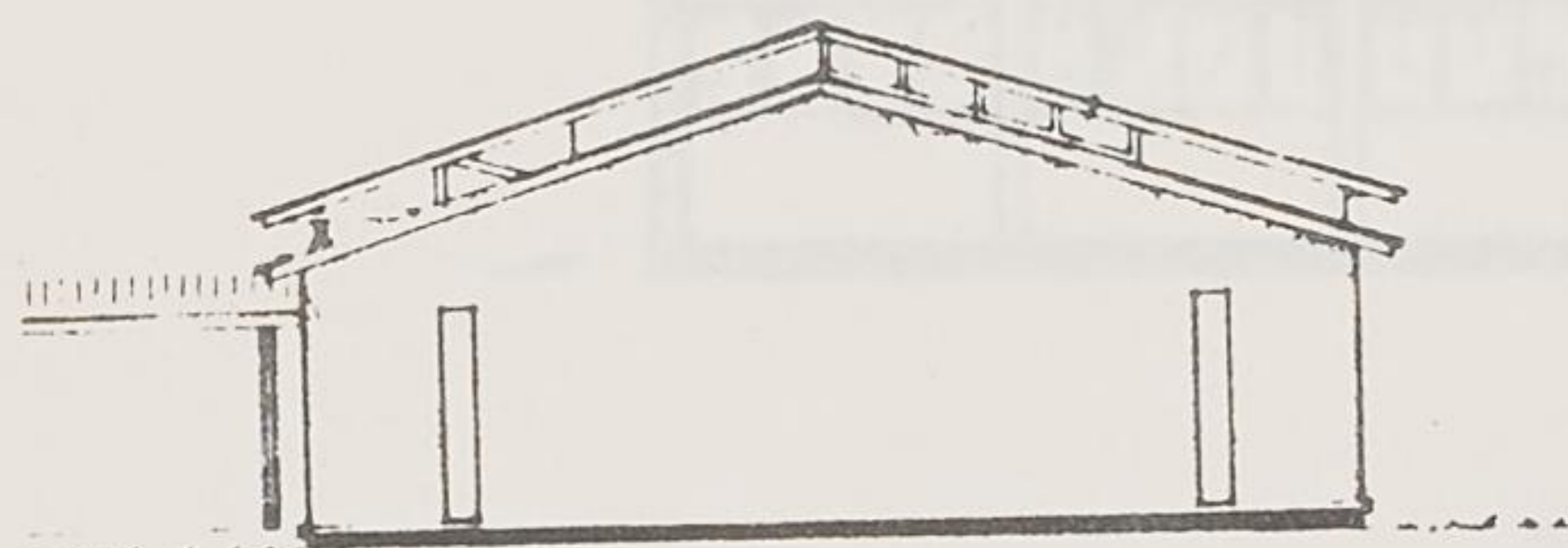
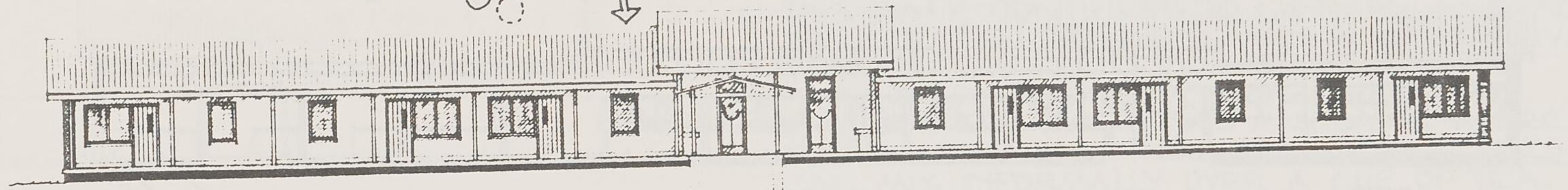
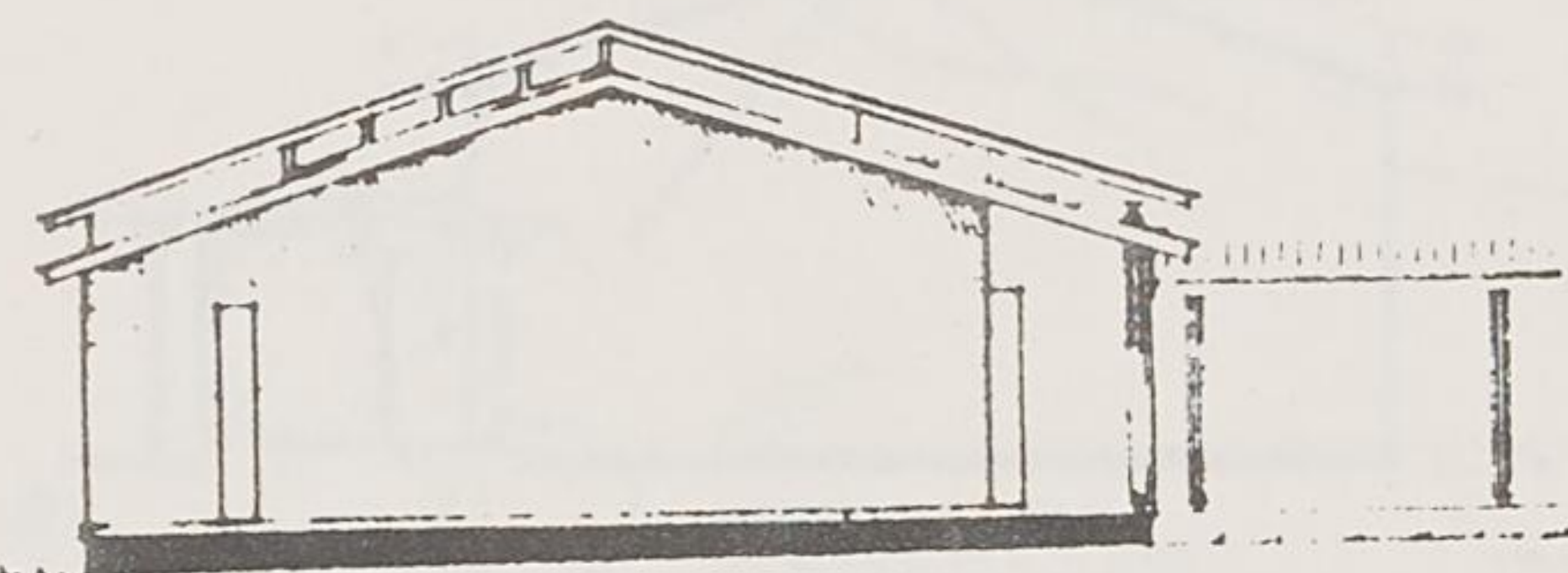
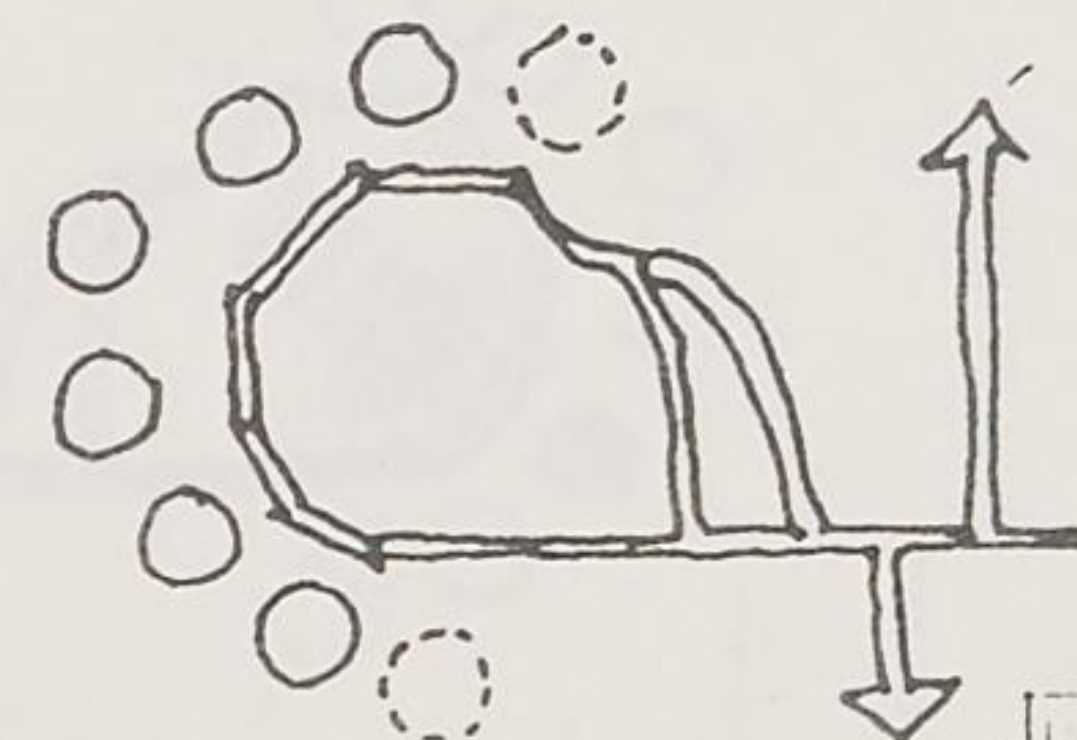
THIS FURTHER DIVISION INTO SMALL GROUPS INCREASES THE FEELING OF BELONGING AND FACILITATES THE ORGANISATION.

THE BOARDING MASTERS HOUSE AND 3 TEACHERS COTTAGES COMPLETE THE UNIT, WHICH IS A WELL BALANCED, ORGANISED AND CLOSE-KNIT COMMUNITY WITHIN THE SCHOOL COMPLEX.

A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
FUNCTION & DESIGN	D.01
ANC MOROGORO TECHNICAL COMMITTEE - LN/SH	



# THE DORMITORY UNIT

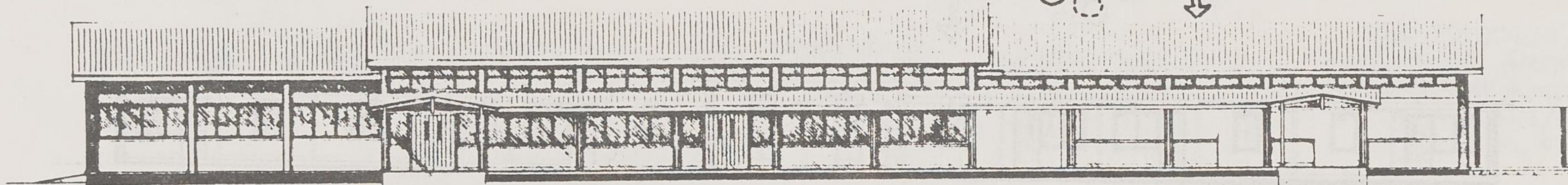
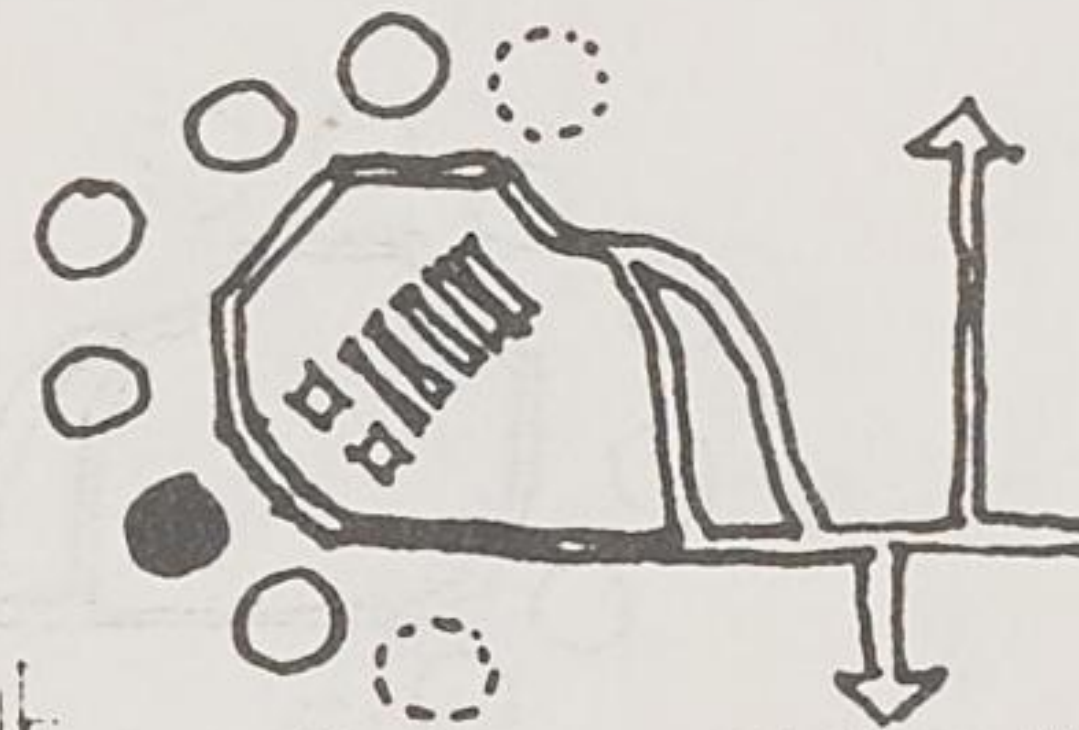


ELEVATIONS  
DORMITORY BLOCK

A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
FUNCTION & DESIGN	D.02
ANC MOROGORO TECHNICAL COMMITTEE- LN/SH	



# THE DORMITORY UNIT



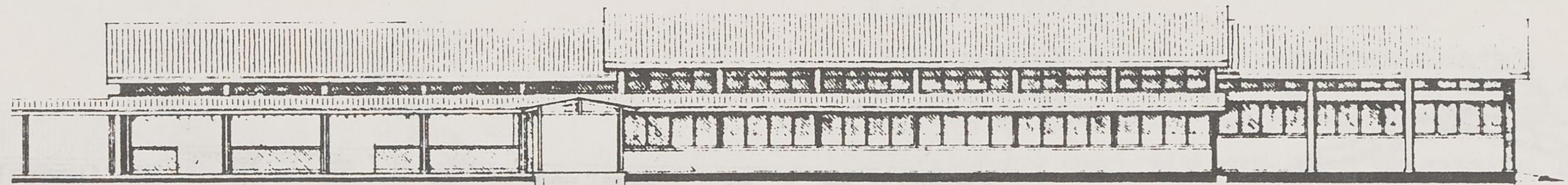
NORTH



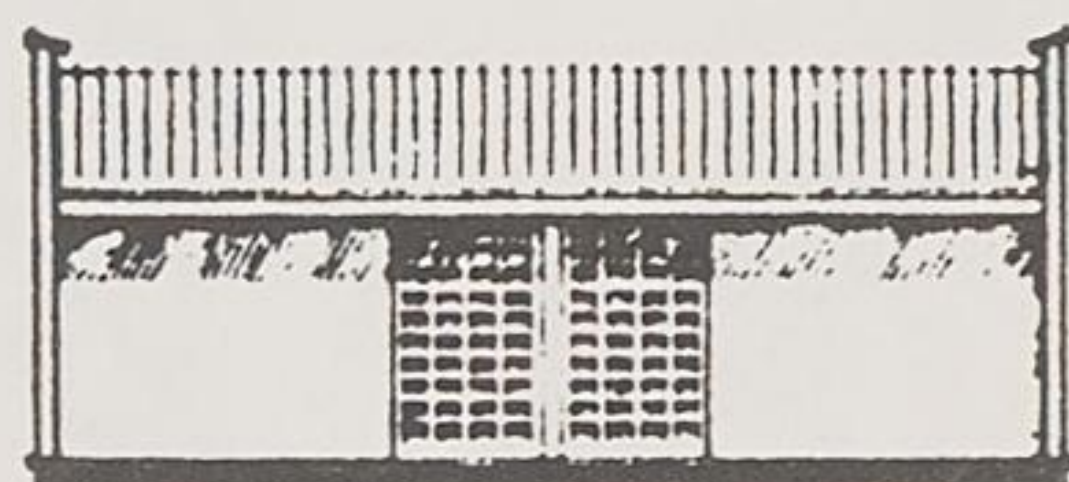
WEST



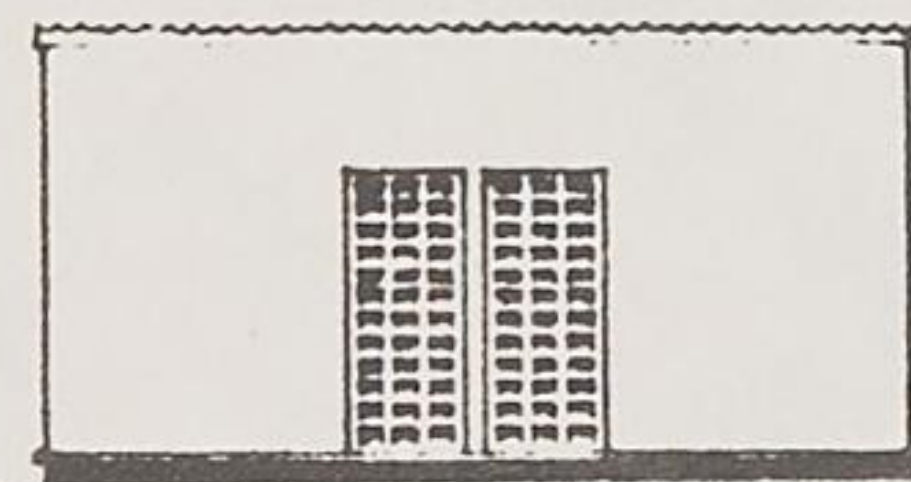
EAST



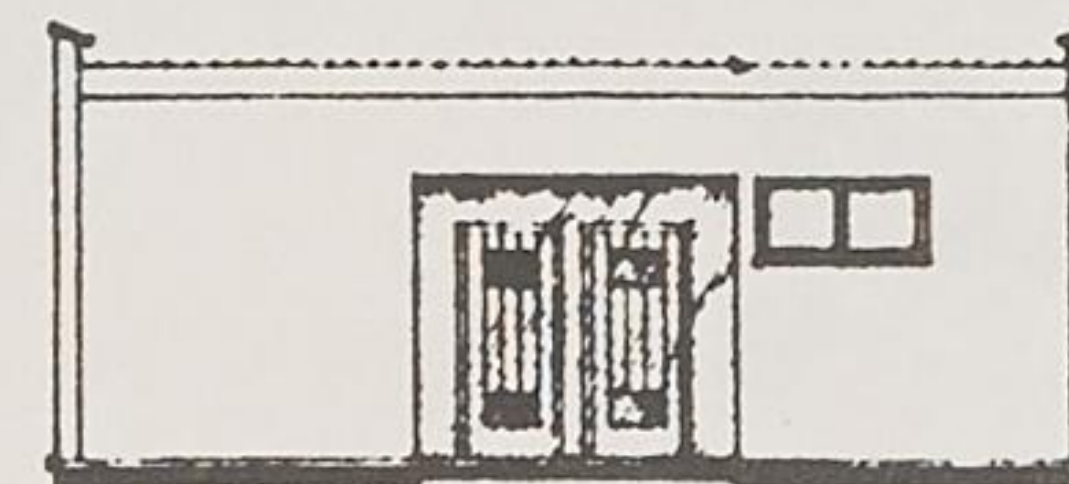
SOUTH



EAST



CABLE NORTH/SOUTH



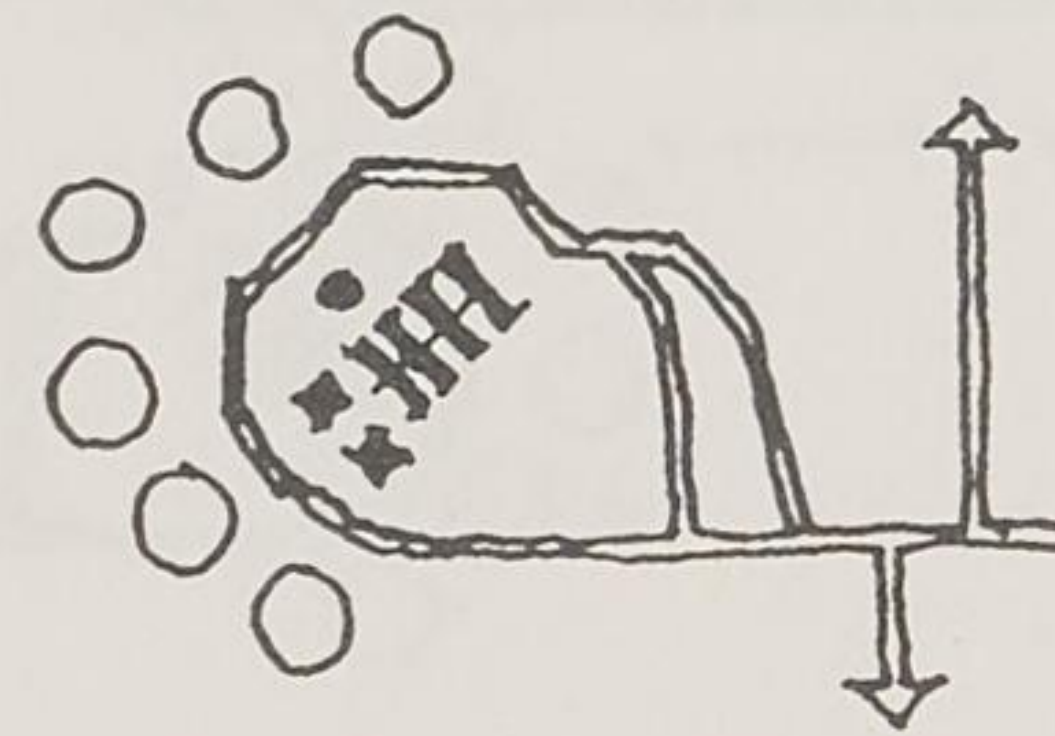
WEST

ELEVATIONS  
COMMUNITY HALL & OUTHOUSE

A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
FUNCTION & DESIGN	D.03
TANC MOROGORO TECHNICAL COMMITTEE - LN/SH	



# THE SCHOOL



THE SCHOOL COMPLEX STRETCHES THROUGH A PARK AND CLOSES THE SEMICIRCLE FORMED BY THE DORMITORY UNITS, WHICH ARE GROUPED AROUND IT.

CLASSROOMS, LABORATORIES AND TEACHERS BLOCKS ARE POSITIONED ON EITHER SIDE OF A GENEROUS (6M. WIDE) COVERED WALK, A WALK WHICH FORMS AN AXIS THROUGH THE SCHOOL. THIS WALK CONTINUES TO LIBRARY AND ADMINISTRATION BUILDINGS AND WILL BE ALIVE WITH ACTIVITY.

THE CENTRE OF THIS AXIS IS A SQUARE, WHERE, DURING BREAKS, STUDENTS AND TEACHERS CAN MIX INFORMALLY OVER A CUP OF TEA.

THE COMPLEX CAN BE EXTENDED BY A FURTHER FOUR CLASSROOM BLOCKS IF REQUIRED AT A LATER STAGE.

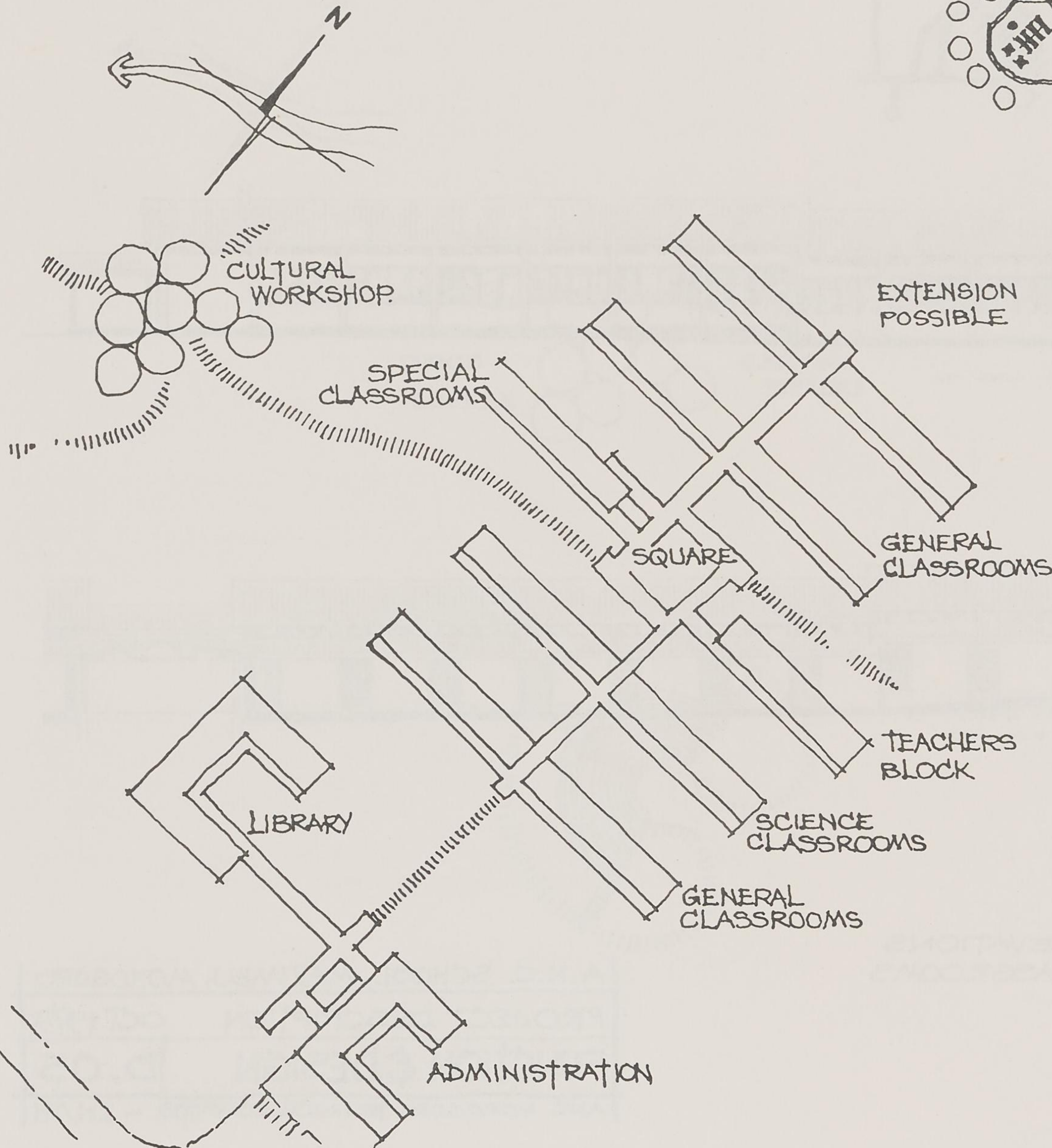
EACH CLASSROOM BLOCK CONTAINS 4 CLASSROOMS SEATING 35 STUDENTS, AND INCLUDING STORAGE AND W.C. FACILITIES.

SCIENCE BLOCKS CONTAIN PHYSICS, CHEMISTRY AND BIOLOGY LABORATORIES.

THE SPECIAL CLASSROOM BLOCK HOLDS ROOMS FOR TYPING, PHOTOGRAPHIC AND DOMESTIC SCIENCE CLASSES.

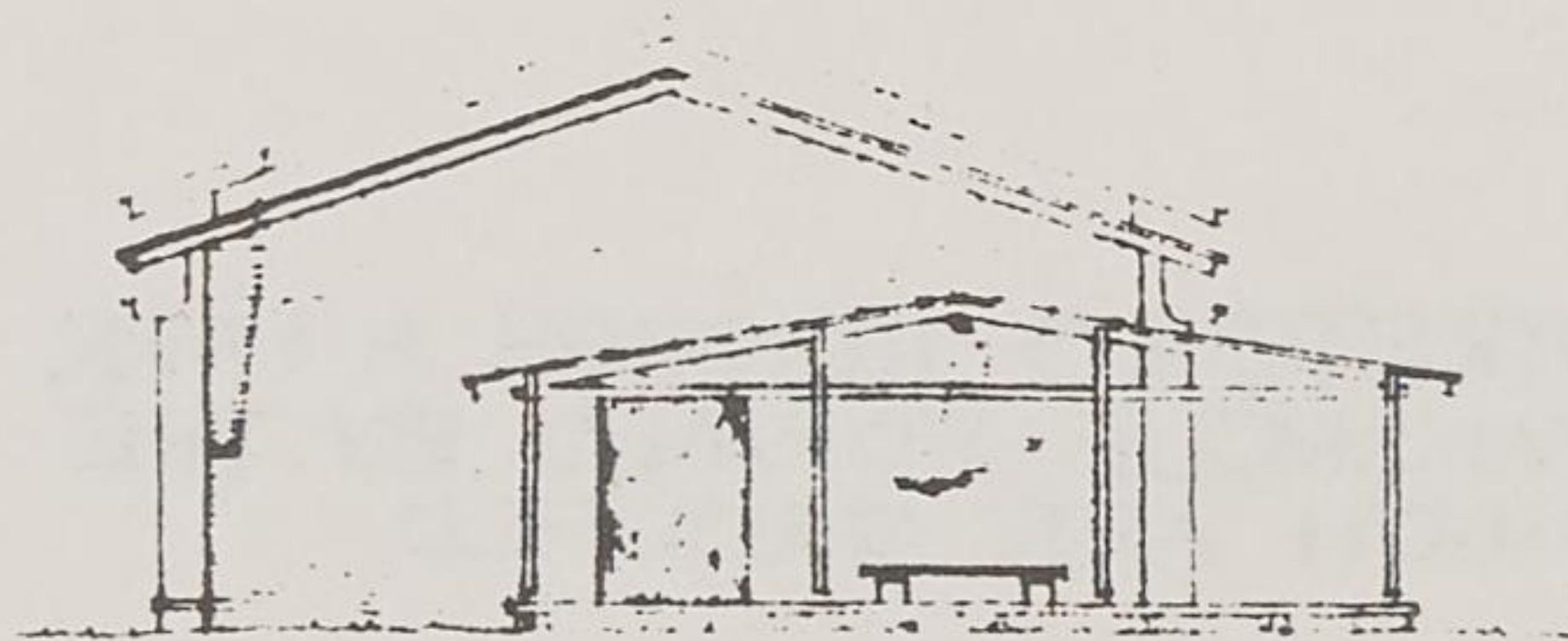
THE TEACHERS BLOCK ACCOMMODATES A TEACHERS COMMON ROOM, A SMALL CONFERENCE ROOM, A DUPLICATING ROOM, AND 2 STUDY ROOMS, WHERE EACH TEACHER WILL HAVE A CUBICLE.

THE CULTURAL WORKSHOP IS THE DOMAIN OF THE STUDENTS (SEE D.04). APART FROM BOOKS AND QUIET STUDY THE LIBRARY WILL OFFER QUIET FACILITIES FOR CULTURAL APPRECIATION, EG. MUSIC, EXHIBITIONS, ETC.

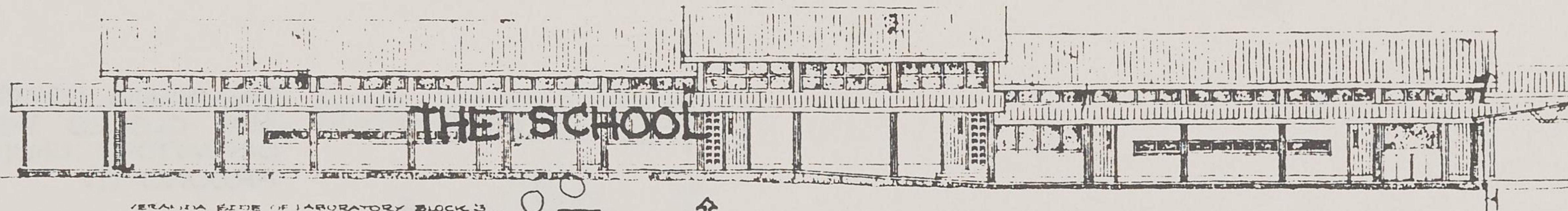


A.N.C. SCHOOL, XAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
FUNCTION & DESIGN	D.04
TANC MOROGORO TECHNICAL COMMITTEE - LN/SH	

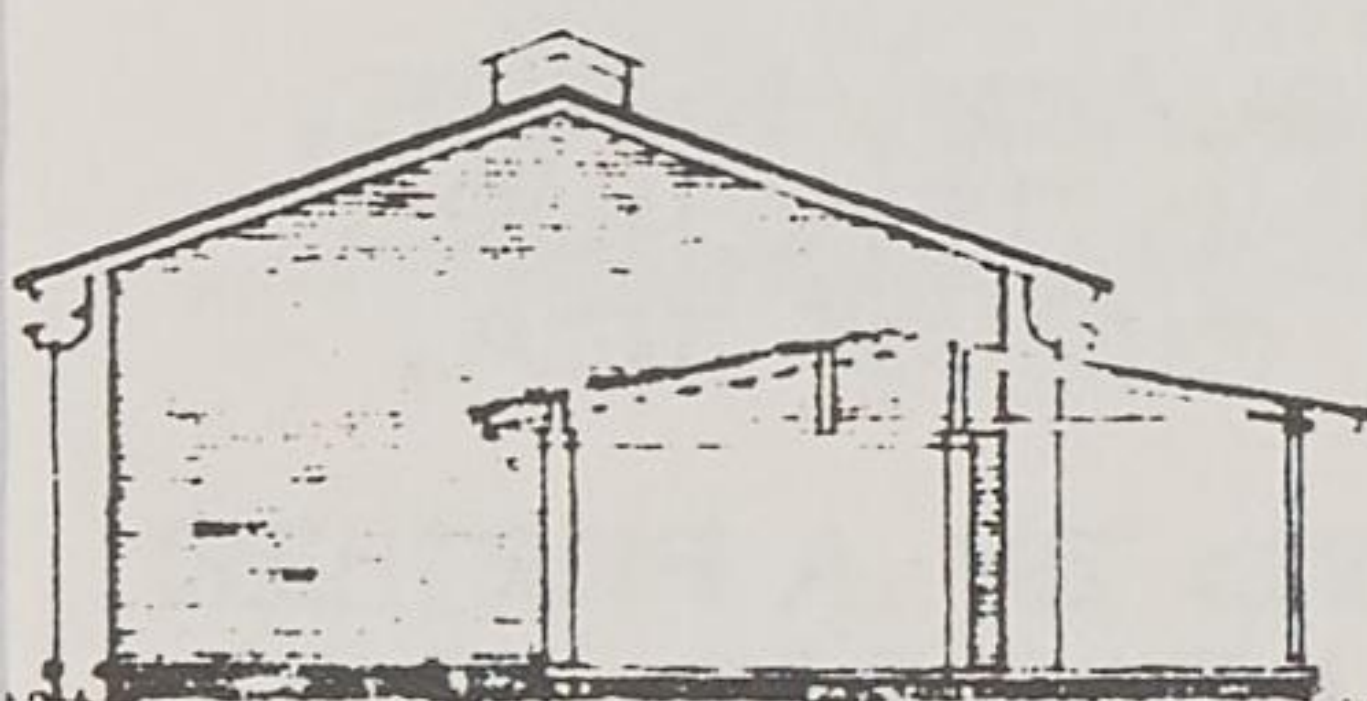
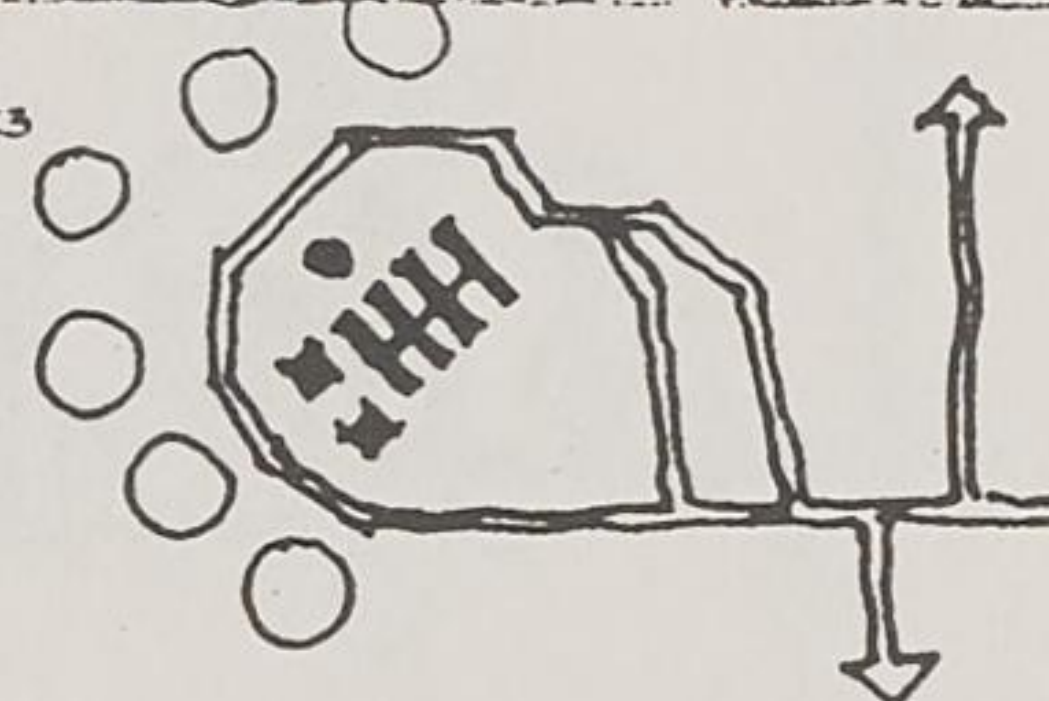




ELEVATION OF LABORATORY BLOCK



ELEVATION SIDE OF LABORATORY BLOCK 3

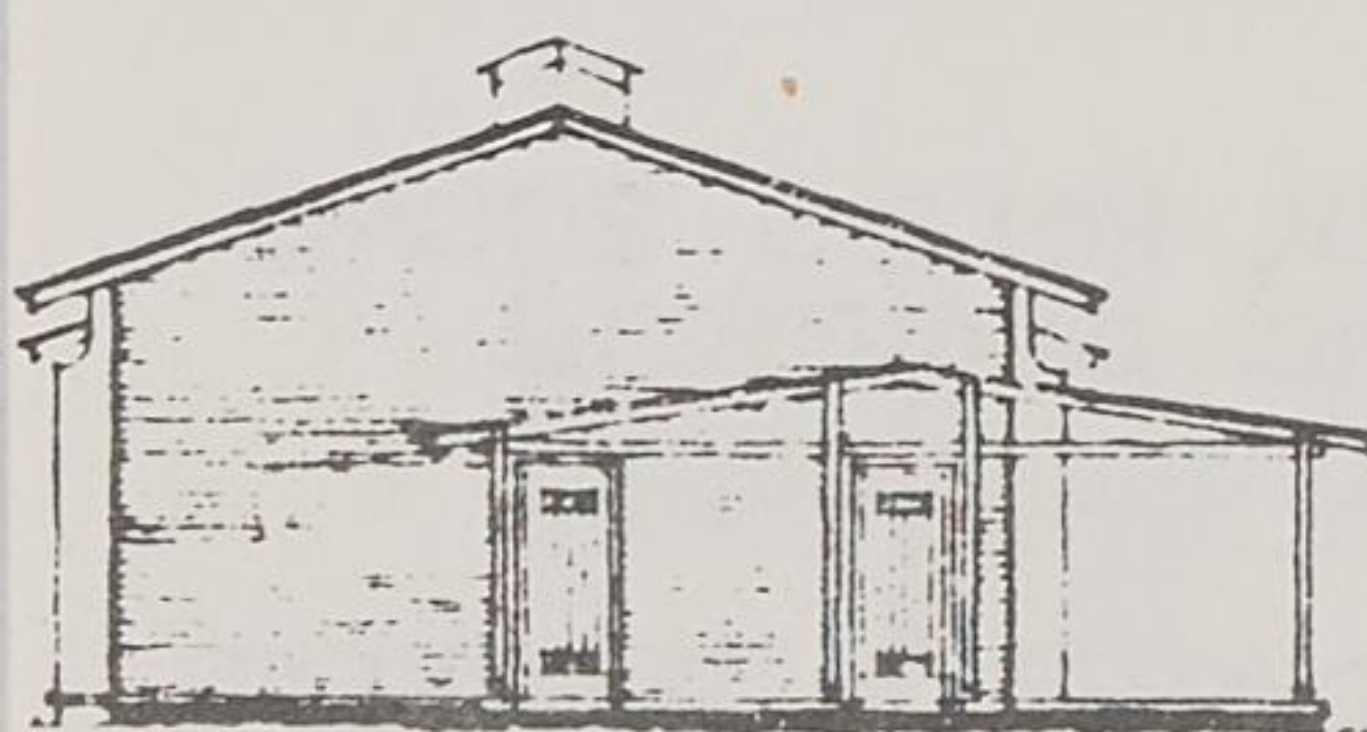


ELEVATION OF GENERAL CLASSROOM BLOCK  
ALTERNATIVE VERANDAGABLE FOR  
CLEANERS STORE WALL PAINTING (SEE PLAN)

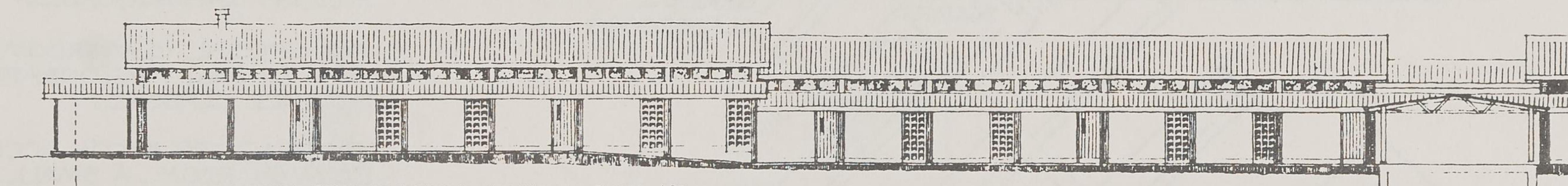


CONNECTING  
VERANDA/PASSAGE

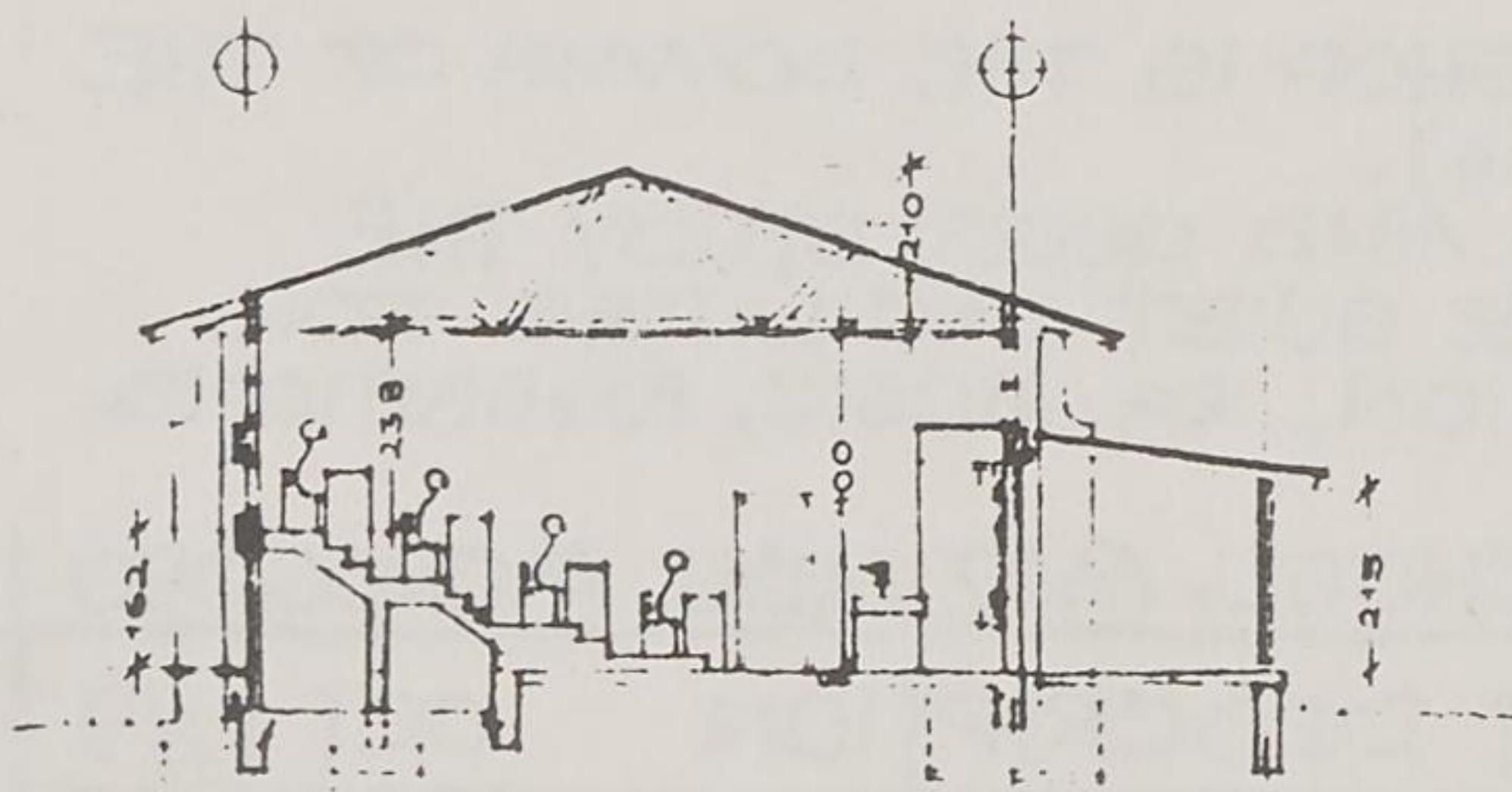
ELEVATION SIDE OF GENERAL CLASSROOM BLOCK 122



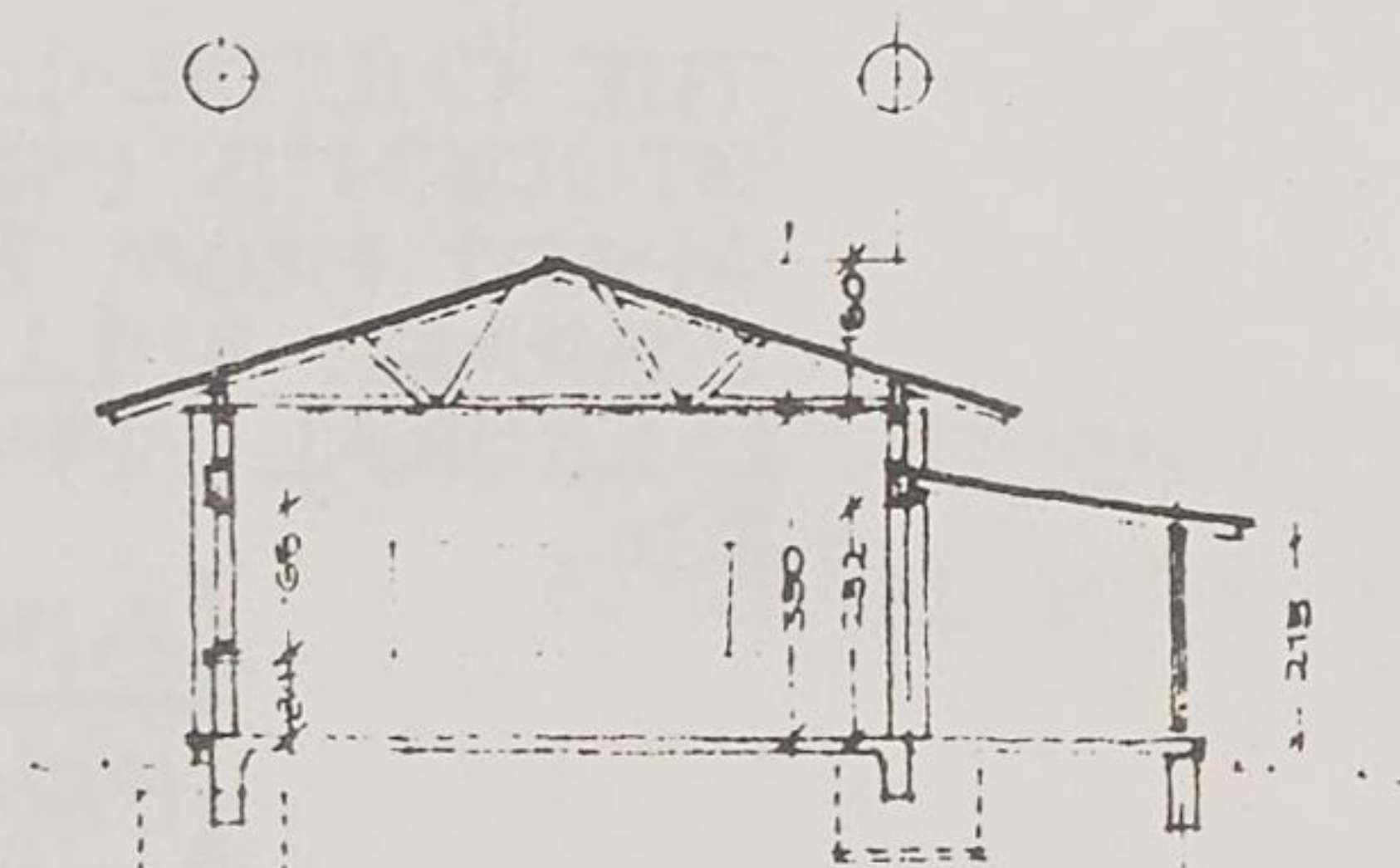
ELEVATION OF GENERAL CLASSROOM BLOCK



ELEVATION SIDE OF GENERAL CLASSROOM BLOCK 122  
WALL OF ALTERNATIVE GABLE



SECTION THRU LECTURER ROOM BLOCK 3

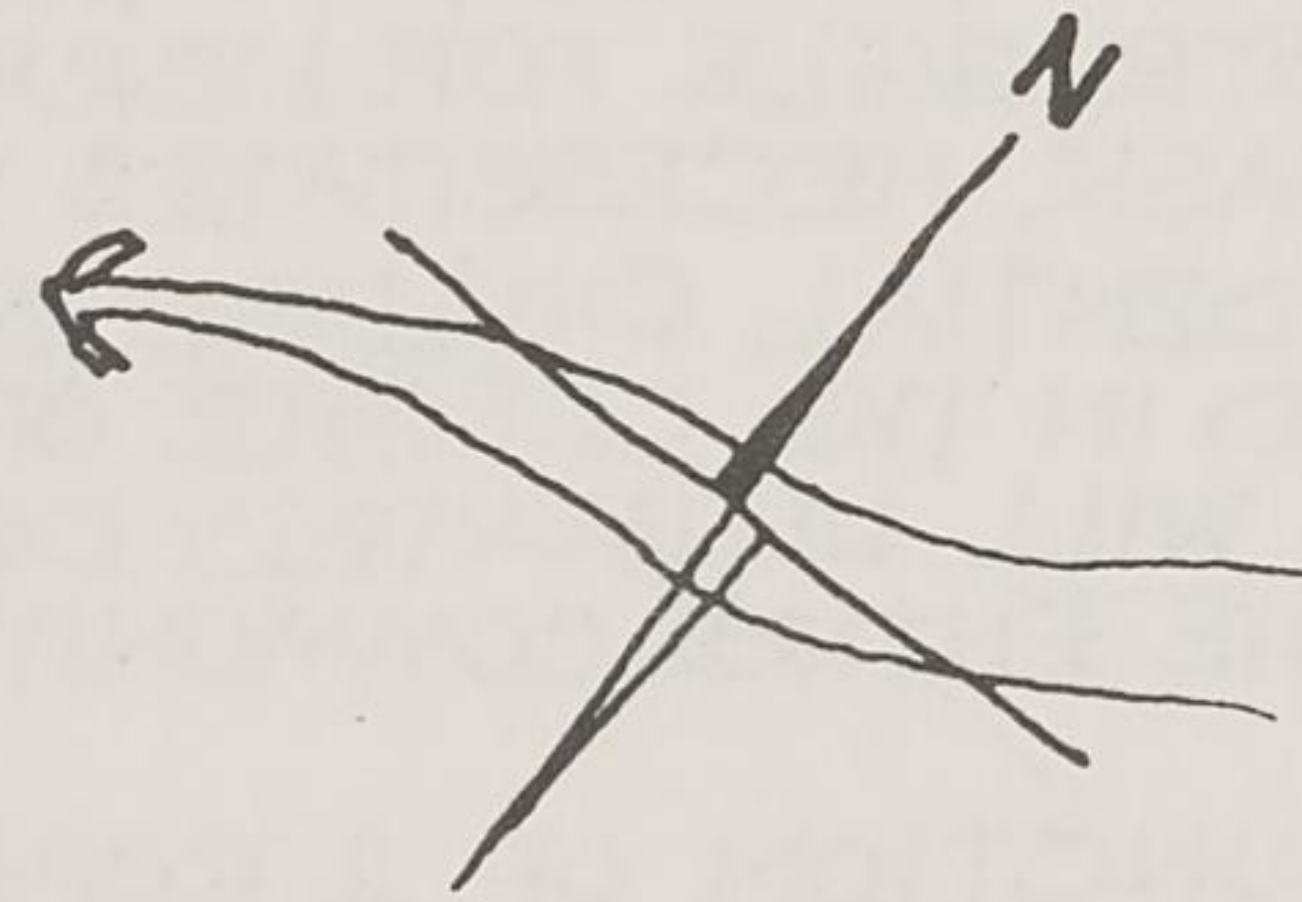


SECTION THRU GENERAL CLASSROOM  
BLOCK 122

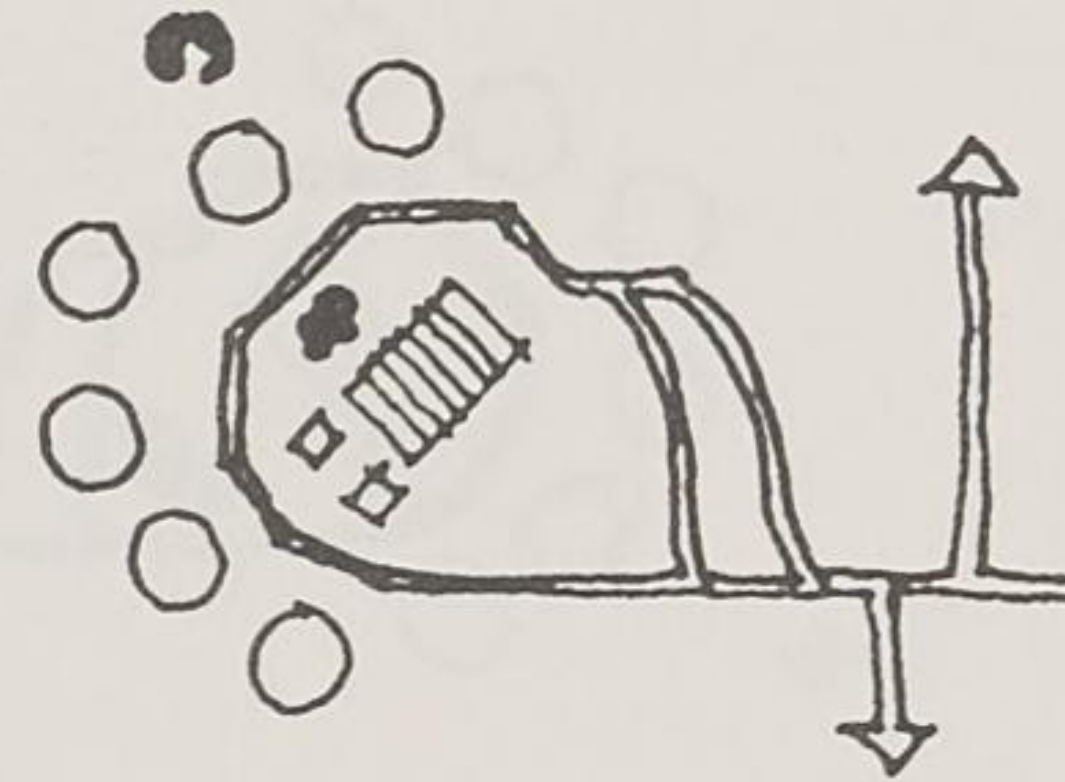
# ELEVATIONS CLASSROOMS

A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
FUNCTION & DESIGN	D.05
ANC MOROGORO TECHNICAL COMMITTEE - LN/SH	





## THE STUDENTS



THE COLLEGE COMPLEX, INCL. MEDICAL CENTRE, CHILDRENS CENTRE, AGRICULTURE & VOCATIONAL TRAINING CENTRE IS INTENDED AS A WORKSHOP, WHERE OUR REVOLUTIONARY YOUTH, SOME PRE-PARING FOR FURTHER EDUCATION, CAN DEVELOP THE SKILLS & KNOWLEDGE NECESSARY TO TAKE THEIR PLACE IN A FREE SOUTH AFRICA.

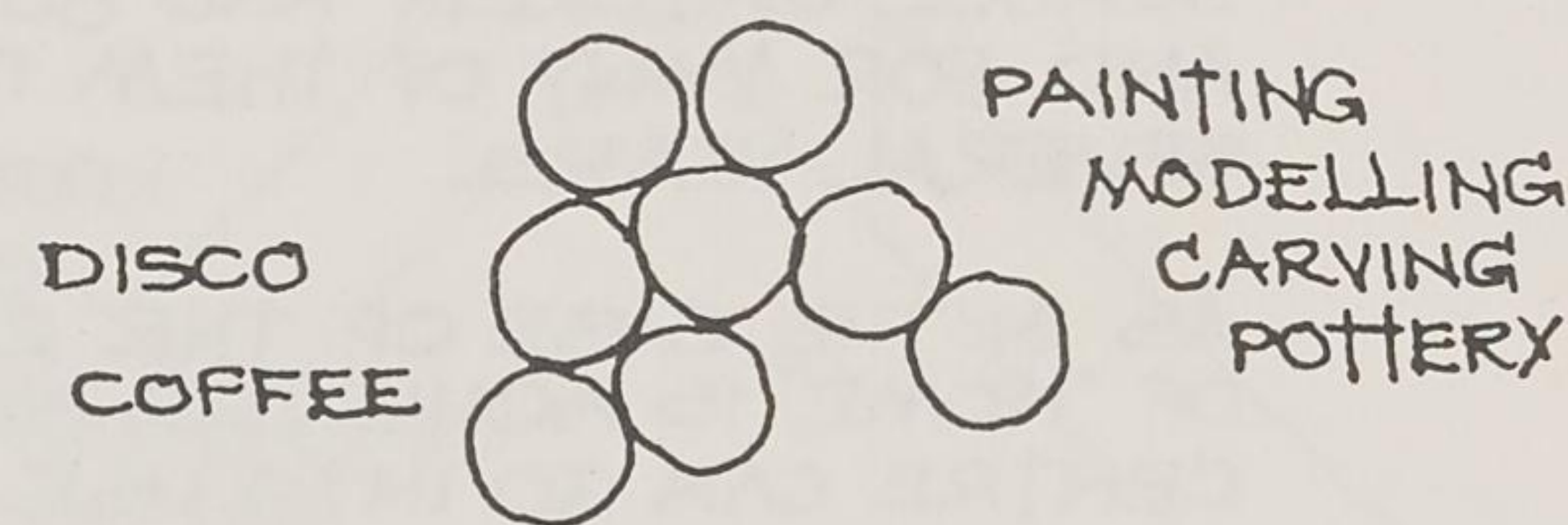
THE MISSION OF THE BOYS AND GIRLS, WHO HAVE JOINED THE RANKS OF THE ANC., IS TO STUDY - AND A PART OF THE STUDY PROCESS IS RELAXATION.

IN ADDITION TO THEIR GENERAL PARTICIPATION IN THE CONSTRUCTION, THE STUDENTS INITIATIVE WILL BE RESPONSIBLE FOR THE PLANNING & CONSTRUCTION OF THE CULTURAL WORKSHOP, WHICH WILL EVENTUALLY BE THEIR DOMAIN.

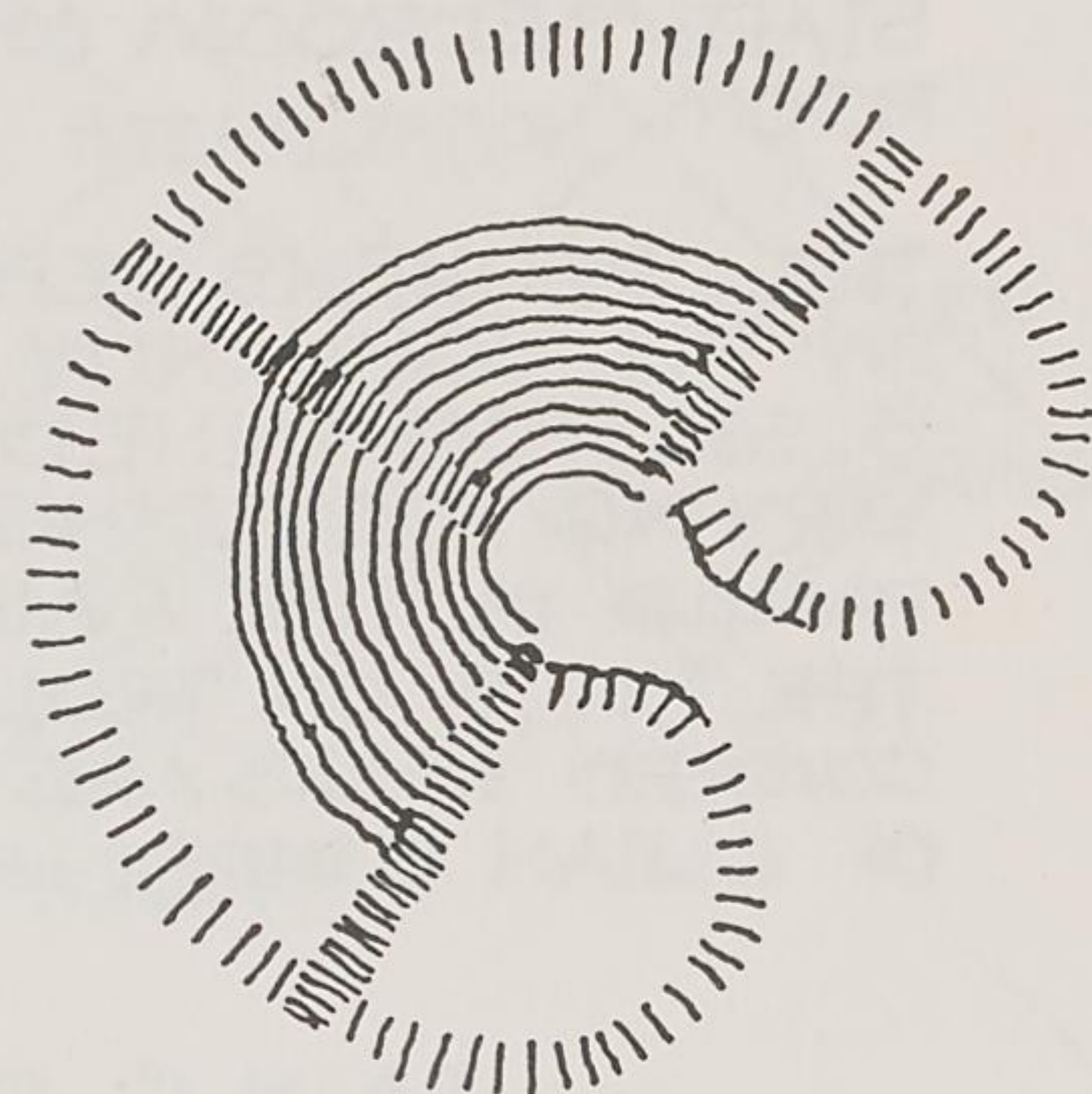
IT IS ENVISAGED THAT THE CULTURAL WORKSHOP, SITUATED IN THE CENTRE OF THE SCHOOL, WILL COMPRISE. PAINTING, MODELLING, CARVING AND SIMILAR ACTIVITIES, AS WELL AS A DISCO AND COFFEE BAR.

THE DESIGN SHOULD ALLOW FOR GROWTH OF ACTIVITIES TO MEET NEW NEEDS AS THEY ARRISE.

THE CONSTRUCTION WILL RELY ON NATURAL, LOCALLY AVAILABLE MATERIALS SUCH AS STONE, THATCH, ETC.



## CULTURAL WORKSHOP



## AMPHITHEATRE

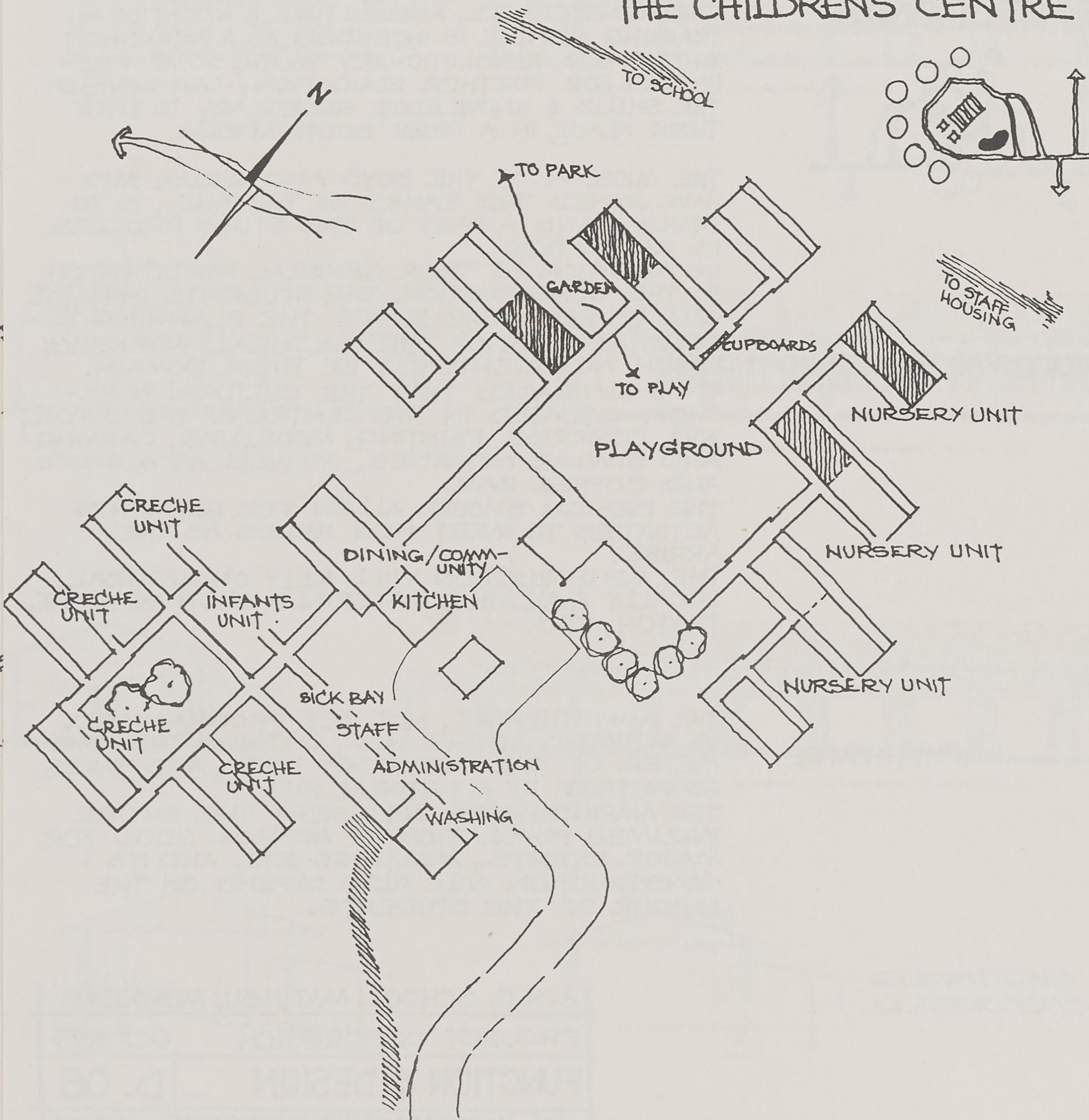
THE AMPHITHEATRE, NOT YET PROGRAMMED, IS SITUATED TO THE N.W., OUTSIDE THE PERIMETER OF THE DORMITORY UNITS, AND TAKES ADVANTAGE OF A NATURAL HILL.

THE AMPHITHEATRE WILL SEAT THE ENTIRE MAZIMBU POPULATION OF APPROX. 2000 FOR MAJOR EVENTS, MEETINGS ETC, AND ITS CONSTRUCTION WILL ALSO DEPEND ON THE LABOUR OF THE STUDENTS.

A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
FUNCTION & DESIGN	D. 06
ANC MOROGORO TECHNICAL COMMITTEE - LN/SH	



# THE CHILDRENS CENTRE



THE CHILDRENS CENTRE WILL CATER FOR THE YOUNG CHILDREN (0,6-7 YEARS) OF THE COLLEGE STAFF, AS WELL AS PARENTS ENTRUSTED WITH A.N.C. MISSIONS ELSEWHERE. ITS MAIN INTENTION IS TO ENABLE WOMEN TO PARTICIPATE FULLY IN THE TASKS FACING THE ANC. IN ITS STRUGGLE FOR LIBERATION. THE FULFILMENT OF THIS TASK NECESSITATES THE ESTABLISHMENT OF A RESIDENTIAL CHILDRENS CENTRE, WHICH IS PLACED IN THE CENTRE OF THE COMPLEX, AS ITS SUCCESS WILL ULTIMATELY DEPEND ON THE INVOLVEMENT OF THE ENTIRE COMMUNITY.

THE CENTRE LIES AT THE JUNCTION OF 2 ROADS AND IS PASSED BY THE PARK-WALK BETWEEN SCHOOL AND STAFF HOUSING. THE CENTRE WILL ACCOMMODATE 150 NURSERY SCHOOL CHILDREN AND 80 CRECHE-GOING CHILDREN, AND FOR MANY OF THEM IT WILL BE "HOME" FOR SEVERAL YEARS.

AS IN THE CASE OF THE COLLEGE, A GREATER SENSE OF "HOME" IS ACHIEVED BY GROUPING INTO UNITS. THE CENTRE CAN GO INTO USE WITH THE COMPLETION OF THE FIRST UNIT.

6 UNITS OF 24 CHILDREN GROUPED IN A HALF CIRCLE AROUND PLAYGROUND AND COMMUNITY/DINING BLOCK FORM THE NURSERY. EACH UNIT HAS ITS OWN GARDEN, WHICH PROVIDES ACCESS TO THE PLAYGROUND AND THE PARK. THE UNIT HAS A CLUSTER OF 4 BED-ROOMS, SHOWER AND TOILET FACILITIES, A SMALL STAFF BEDROOM AND A GROUP LEARNING/LIVING ROOM.

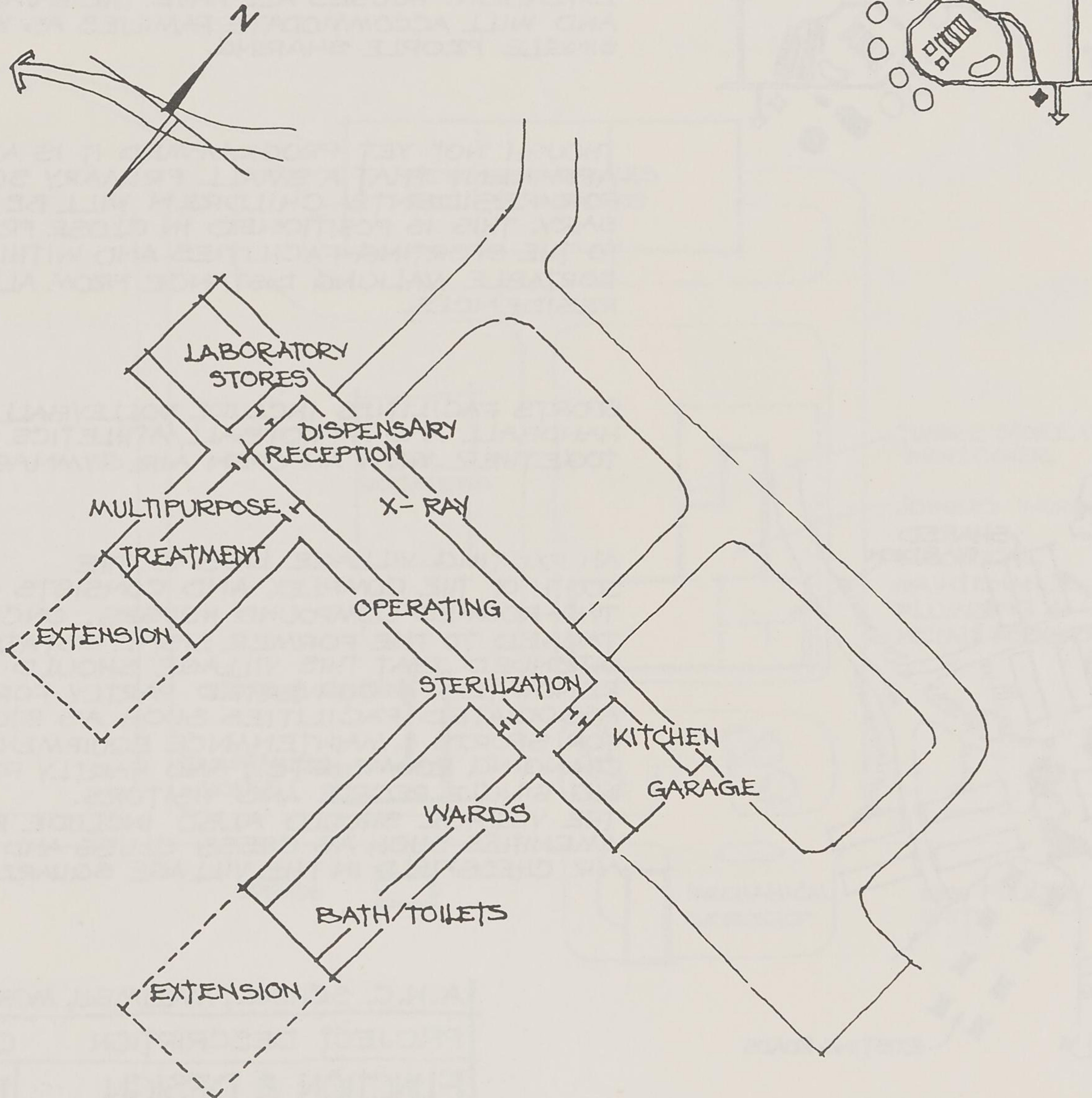
THE CRECHE IS SEPARATED FROM THE NURSERY BY THE COMMUNITY/DINING BLOCK AND COMPRISES 5 SELF-CONTAINED UNITS OF 16 CHILDREN, EACH VARYING ACCORDING TO AGE GROUP. FOOD IS PREPARED IN THE MAIN KITCHEN AND WHEELED TO THE UNITS ON TROLLEYS.

COVERED WALKS ARE UTILIZED FOR CUBOARD STORAGE OF CLEAN & DIRTY LINEN, AS WELL AS TOYS ETC.

A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
FUNCTION & DESIGN	D. 07
ANC MOROGORO TECHNICAL COMMITTEE - SH	



# THE MEDICAL CENTRE



THE MEDICAL CENTRE, A SMALL HOSPITAL, IS SITUATED NEAR THE MAIN ENTRANCE, SO THAT PATIENTS FROM OUTSIDE (THE LOCAL TANZANIAN PEOPLE) CAN HAVE EARLY ACCESS AND NEED NOT ENTER THRU' THE COMPLEX ITSELF.

THE IN-PATIENTS WING ACCOMMODATES 5 WARDS AND 15 BEDS. BATH AND TOILET FACILITIES HAVE BEEN GENEROUSLY SIZED TO ALLOW FOR THE POSSIBLE FUTURE EXTENSION, WHICH CAN BE ACHIEVED FOR BOTH WINGS.

THE OUTPATIENTS WING COMPRISES A MULTI-PURPOSE DEMONSTRATION; EMERGENCY; VACCINATION-AND WAITING ROOM; AS WELL AS CONSULTING AND TREATMENT ROOMS.

THE MAIN BODY OF THE BUILDING CONTAINS A DELIVERY THEATRE, AN OPERATING THEATRE, X-RAY LABORATORY, DISPENSARY, RECEPTION, A KITCHEN AND A GARAGE.

COVERED VERANDAHs ON EITHER SIDE OF THE BUILDINGS GIVE ADEQUATE SHADE AND FORM CIRCULATION SPACE FOR PATIENTS ON THE OUTER VERANDAH, ALLOWING TRAFFIC-FREE CIRCULATION FOR STAFF ON THE INNER VERANDAH.

THE BUILDING IS ORIENTATED TO GIVE MAXIMUM VENTILATION AND QUIET TO THE WARDS.

AS IN THE CASE OF ALL SECTIONS OF THE COMPLEX, THE MEDICAL CENTRE WILL BE STAFFED FIRST AND FOREMOST BY ANC MEMBERS AND WILL PROVIDE BASIC TRAINING IN MEDICINE AS WELL AS CARING FOR THE POPULATION.

A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
FUNCTION & DESIGN	D. 08
ANC MOROGORO TECHNICAL COMMITTEE - LN/CN/SH	



## SPORT, THE VILLAGE CENTRE HOUSING & PRIMARY SCHOOL

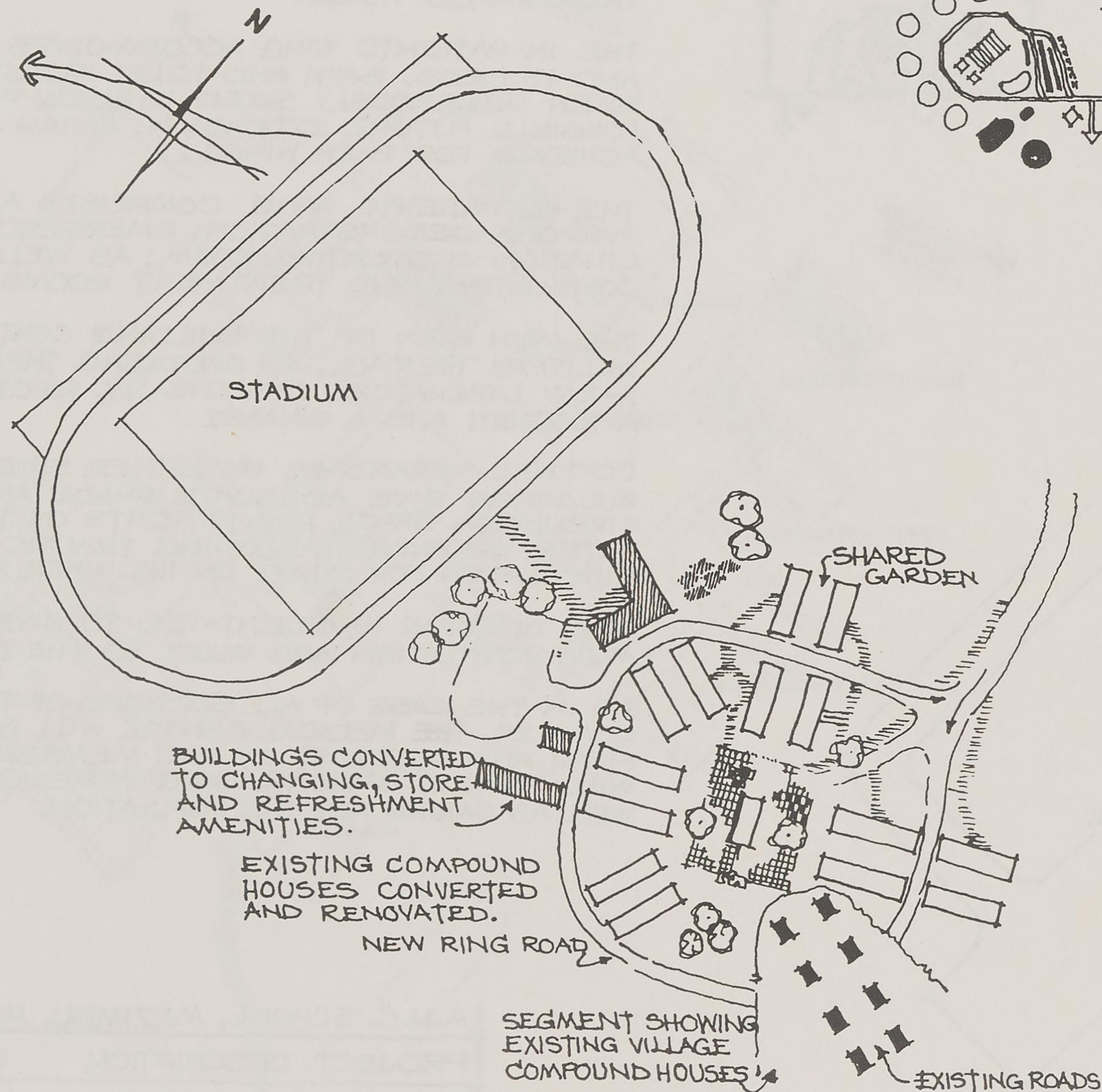


ADDITIONAL STAFF HOUSING IS PLANNED IN 2 PARALLEL ROADS, COMPLETING THE RING WHICH ENCOMPASSES DORMITORY UNITS, SCHOOL AND CHILDRENS CENTRE, AND ALLOWING FOR FUTURE EXTENSION. HOUSES ALL HAVE THE SAME PLAN AND WILL ACCOMMODATE FAMILIES AS WELL AS SINGLE PEOPLE SHARING.

THOUGH NOT YET PROGRAMMED IT IS ALREADY APPARENT THAT A SMALL PRIMARY SCHOOL FOR RESIDENTS CHILDREN WILL BE NECESSARY. THIS IS POSITIONED IN CLOSE PROXIMITY TO THE SPORTING FACILITIES AND WITHIN COMFORTABLE WALKING DISTANCE FROM ALL RESIDENCES.

SPORTS FACILITIES INCLUDE VOLLEYBALL, NETBALL, HANDBALL AND A FOOTBALL/ATHLETICS STADIUM TOGETHER WITH AN OPEN AIR GYMNASIUM.

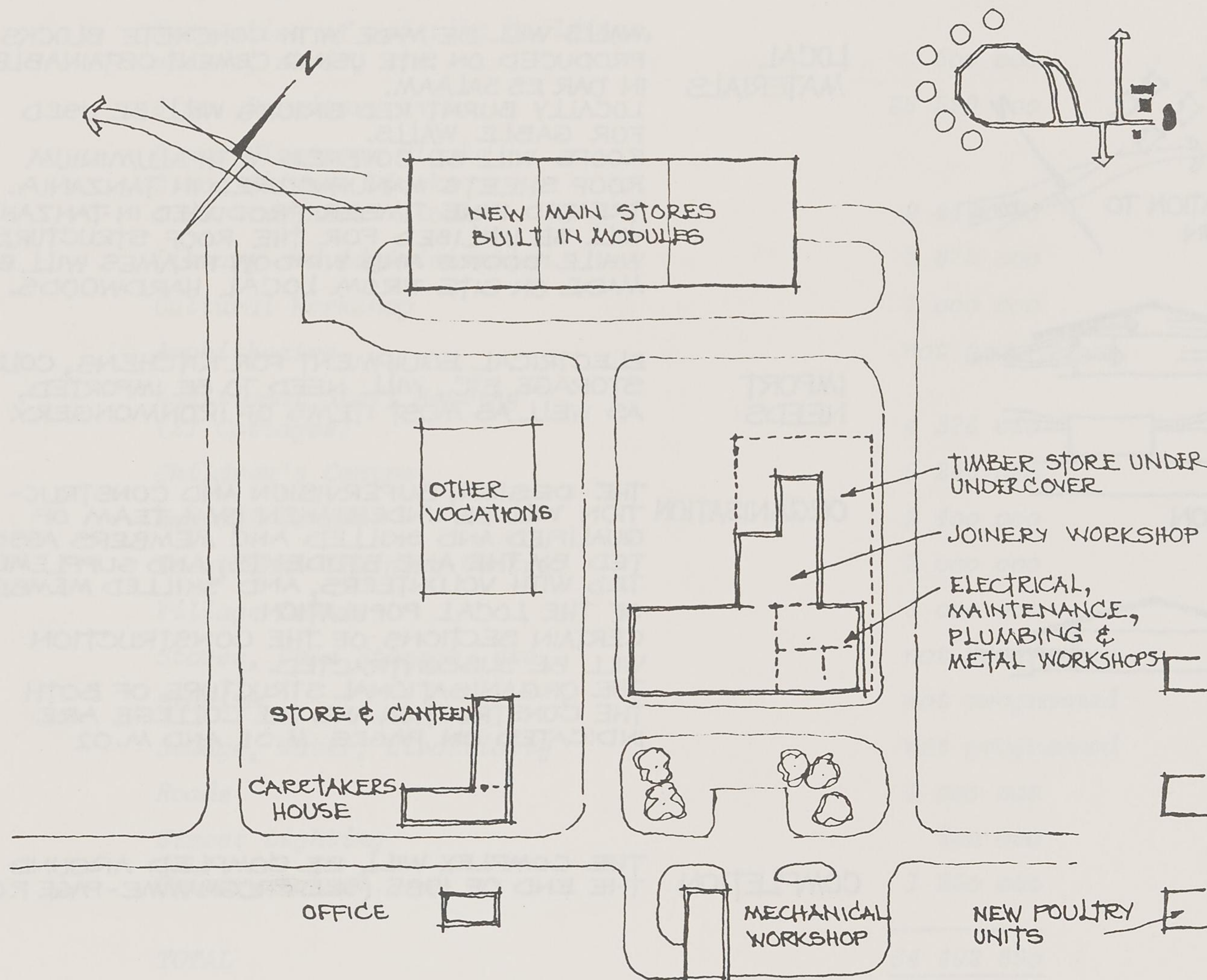
AN EXISTING VILLAGE LIES TO THE SOUTH OF THE COMPLEX AND CONSISTS OF 54 TWO-ROOMED COMPOUND HOUSES, ONCE ATTACHED TO THE FORMER SISAL ESTATE. IT IS INTENDED THAT THIS VILLAGE SHOULD BE RENOVATED & CONVERTED PARTLY FOR SPORTS-ASSOCIATED FACILITIES SUCH AS STORES FOR SPORTS & MAINTENANCE EQUIPMENT, CHANGING ROOMS ETC.; AND PARTLY FOR HOUSING SINGLE PEOPLE AND VISITORS. THE VILLAGE SHOULD ALSO INCLUDE RELAXATION AMENITIES SUCH AS CHESS CLUBS AND AN OPEN-AIR CHESSFIELD IN THE VILLAGE SQUARE ETC.



A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
FUNCTION & DESIGN	D.09
TANC MOROGORO TECHNICAL COMMITTEE - INVSH	



# VOCATIONAL TRAINING, STORES AND FARMING.



THE EXISTING FACTORY BUILDINGS ARE MADE USE OF DURING THE CONSTRUCTION PERIOD TO SET UP JOINERY, PLUMBING & GENERAL MAINTENANCE WORKSHOPS AND A MECHANICAL WORKSHOP.

THESE WILL REMAIN IN TACT, COMPLETE WITH MACHINERY, AFTER COMPLETION OF THE CONSTRUCTED PROJECT AND WILL BE DEVELOPED FOR VOCATIONAL TRAINING. INDEED, IT IS ENVISAGED THAT THIS TRAINING CAN BEGIN DURING THE CONSTRUCTION PERIOD AS PART OF THE STUDENTS PARTICIPATION IN THE PROJECT.

IT WOULD BE NATURAL, THEREFORE, TO UTILISE THE AREA FOR OTHER VOCATIONS SUCH AS TAILORING, ELECTRICAL, ELECTRICAL APPLIANCE MAINTENANCE AND METALWORKING WORKSHOPS.

A LARGE STORES COMPLEX WILL BE NECESSARY FOR THE STORAGE OF FARM, DAIRY AND VEGETABLE PRODUCE, IN ADDITION TO THE OTHER NEEDS OF THE SETTLEMENT WHICH WILL BE SUPPLIED FROM HERE. COLD STORAGE, A BUTCHERY, BAKERY ETC ARE ENVISAGED.

THE STORES SHOULD BE PLANNED ON A MODULAR BASIS SO THAT EXTENSION CAN TAKE PLACE WITH THE GROWTH.

FARMING WILL INCLUDE TWO POULTRY UNITS FOR 1000 LAYERS EACH, A BROILER UNIT FOR 1000 FOWLS AND A DAIRY FARM FOR 40 COWS.

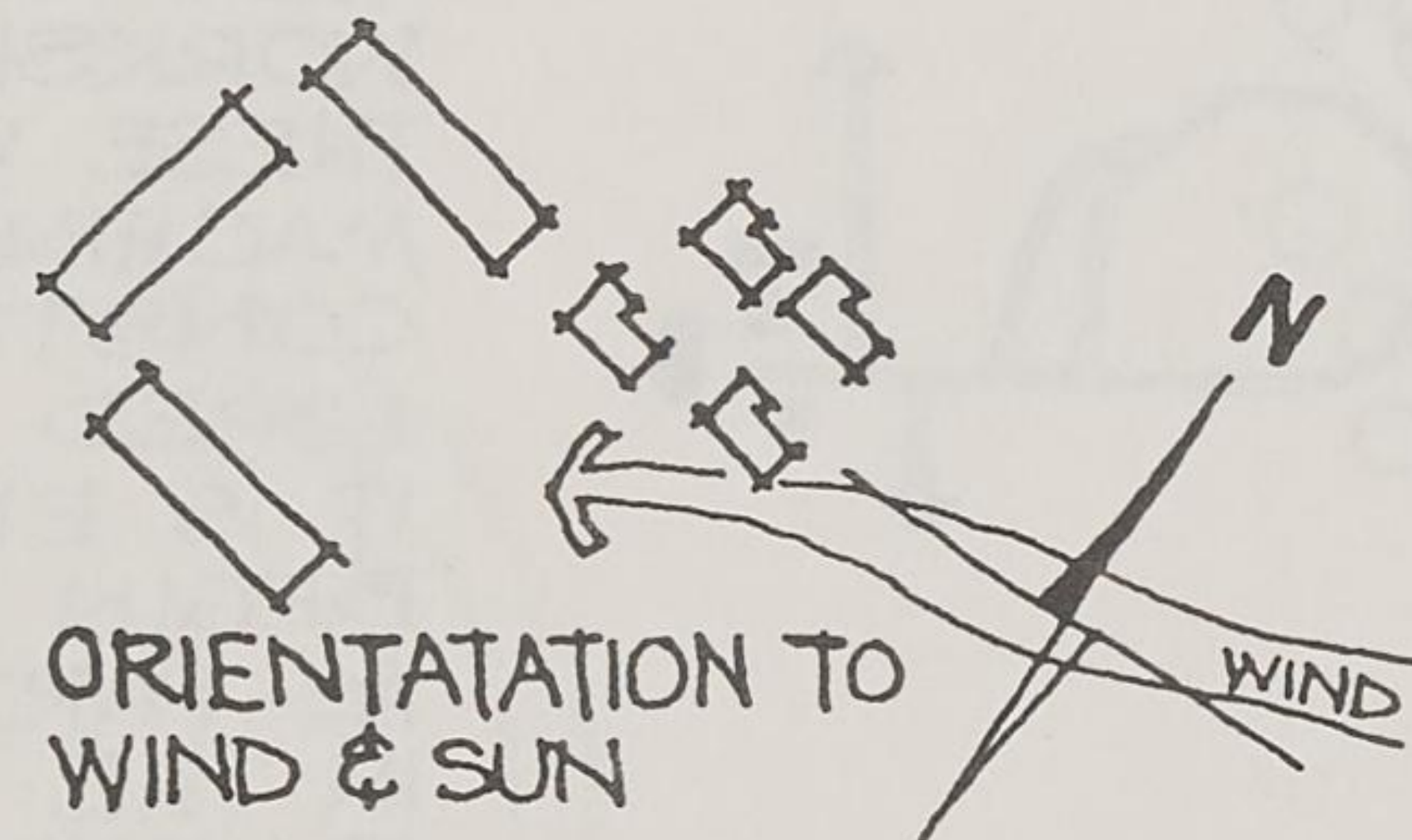
THESE, TOO, WILL FORM PART OF THE VOCATIONAL TRAINING CENTRE. FARMING WILL ALSO INCLUDE VEGETABLE AND FRUIT FARMING, AS WELL AS CASH CROP CULTIVATION OF MAIZE, BEANS ETC. A PIGGERY FOR 900 PIGS HAS ALREADY BEEN STARTED NEAR THE COMPLEX.

A. N. C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
FUNCTION & DESIGN	D. 10
TANC MOROGORO TECHNICAL COMMITTEE - SH	

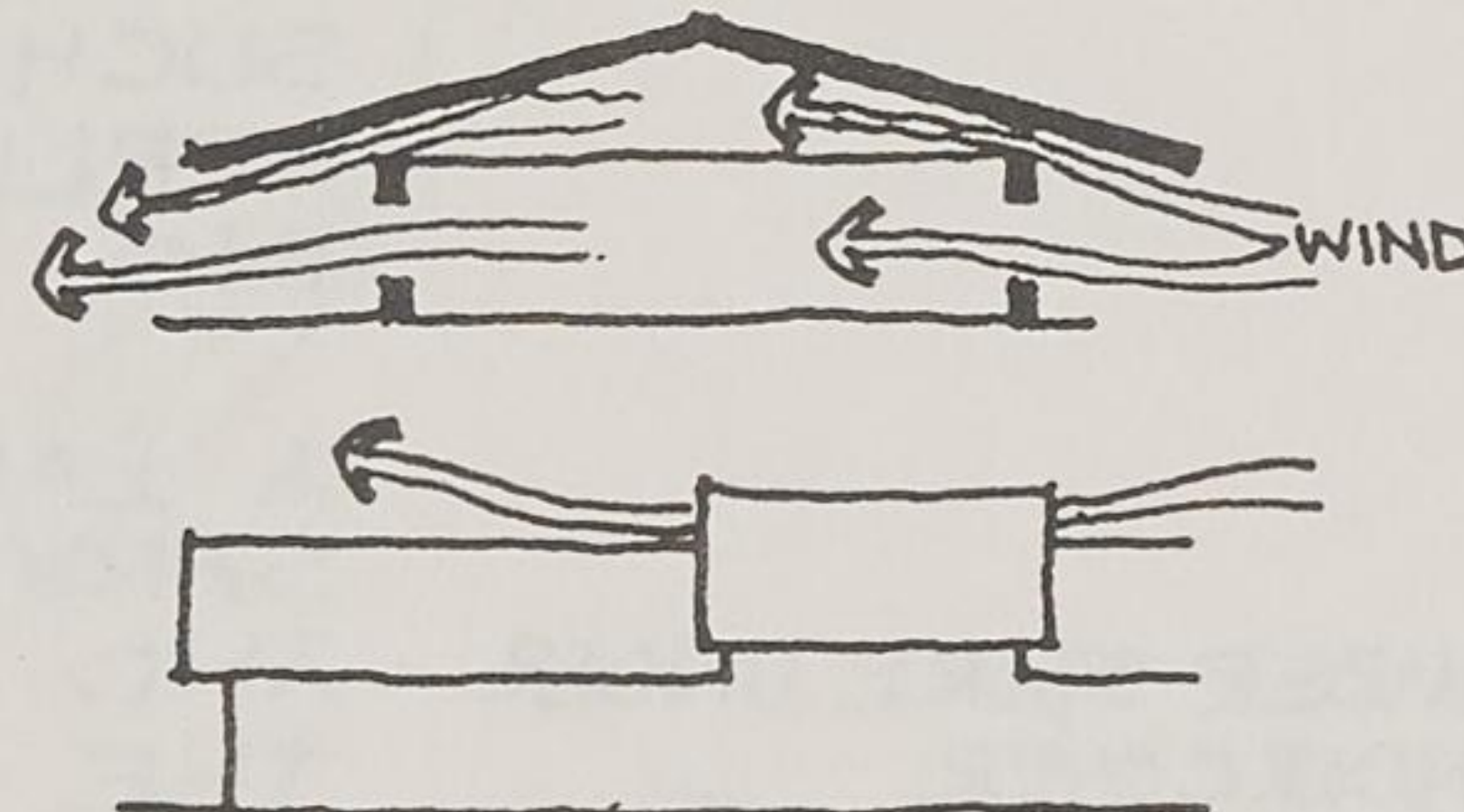


## CONSTRUCTION & DESIGN

THE DIRECTION OF THE SLOPE AND THE ORIENTATION OF THE PREVAILING WIND AND COMPASS DIRECTION, COMBINED, INDICATE AN OBVIOUS MEANS OF "COOLING" THE BUILDINGS NATURALLY. BUILDINGS CAN BE ORIENTATED TO MINIMISE THE SUN'S HEAT ON THE MAIN WALLS AND TO "CATCH" THE WIND.

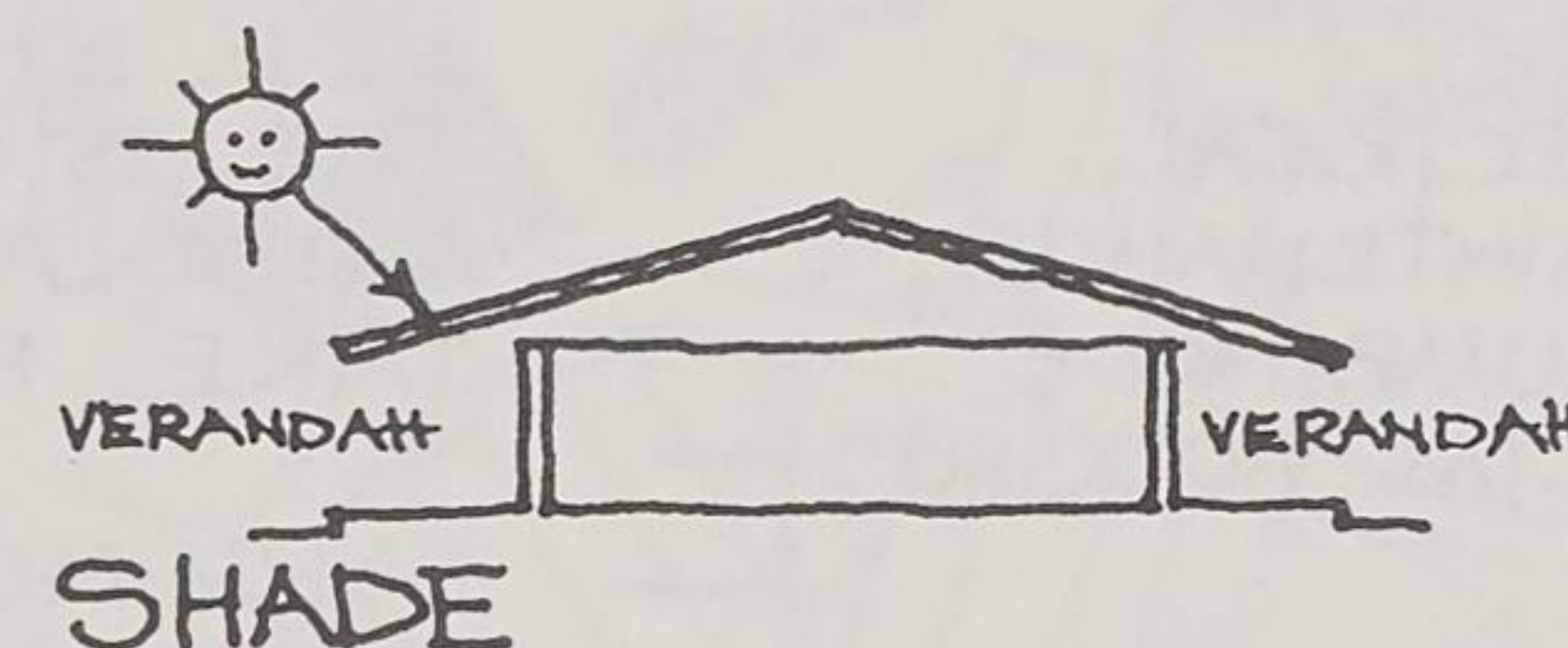


ROOMS GENERALLY HAVE WINDOWS AT OPPOSITE SIDES TO PROVIDE FOR GOOD CROSS-VENTILATION. ALUMINIUM ROOF-SHEETS REFLECT THE SUN, AND THE ROOFSpace IS KEPT COOL BY ALLOWING CROSS-VENTILATION OVER THE CEILING FOR FULL LENGTH OF THE BUILDING. ROOFS OVER TOILETS ARE RAISED AND CEILINGS OMITTED FOR GOOD UPWARD VENTILATION.



VENTILATION

WALLS ARE SHADED BY EXTENDED ROOFS, WHICH ARE EMPLOYED FUNCTIONALLY WHEREVER POSSIBLE AS CIRCULATION SPACE OR E.G. VERANDAHs FOR IRONING, STORAGE & RELAXATION. WHERE DORMITORY BLOCKS ARE ORIENTATED EAST/WEST, THE VERANDAH ROOFS ARE EXTENDED A FURTHER 60 CMS IN THE WEST.



GOOD SANDY SOIL EXISTS OVER THE ENTIRE SITE.

SOIL

SEWAGE, WATER & POWER SUPPLY HAVE BEEN INVESTIGATED AND PROPOSALS MADE BY 'NORPLAN' IN THEIR PRELIMINARY DESIGN REPORT

SEWAGE,  
WATER  
POWER

### LOCAL MATERIALS

WALLS WILL BE MADE WITH CONCRETE BLOCKS PRODUCED ON SITE USING CEMENT OBTAINABLE IN DAR ES SALAAM. LOCALLY BURNT RED BRICKS WILL BE USED FOR GABLE WALLS. ROOFS WILL BE COVERED WITH ALUMINIUM ROOF SHEETS MANUFACTURED IN TANZANIA. TREATED PINE TIMBER PRODUCED IN TANZANIA WILL BE UTILISED FOR THE ROOF STRUCTURES, WHILE DOORS AND WINDOW FRAMES WILL BE MADE ON SITE FROM LOCAL HARDWOODS.

### IMPORT NEEDS

ELECTRICAL EQUIPMENT FOR KITCHENS, COLD STORAGE, ETC., WILL NEED TO BE IMPORTED, AS WELL AS MOST ITEMS OF IRONMONGERY.

### ORGANISATION

THE DESIGN, SUPERVISION AND CONSTRUCTION WILL BE UNDERTAKEN BY A TEAM OF QUALIFIED AND SKILLED ANC MEMBERS ASSISTED BY THE ANC STUDENTS, AND SUPPLEMENTED WITH VOLUNTEERS, AND SKILLED MEMBERS OF THE LOCAL POPULATION. CERTAIN SECTIONS OF THE CONSTRUCTION WILL BE SUBCONTRACTED. THE ORGANISATIONAL STRUCTURE OF BOTH THE CONSTRUCTION AND THE COLLEGE ARE INDICATED ON PAGES M.01 AND M.02

### COMPLETION

THE COMPLEX WILL BE COMPLETED AROUND THE END OF 1985. (SEE PROGRAMME-PAGE P.01)

A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
CONSTRUCTION & DESIGN	C. 01
TANC MOROGORO TECHNICAL COMMITTEE - LN/SH	



<u>DESCRIPTION OF BUILDINGS</u>	<u>Tanz. (Shs.)</u>
Temporary water and sewage	300 000
Renovation of existing buildings, stores, sheds, etc.	500 000
6 no. Dormitory Units	28 599 900
6 no. Classroom Blocks	
2 no. Science Blocks	
1 no. Teachers' Block	9 448 850
Library and Administration	2 875 000
Cultural Workshop	1 000 000
Amphitheatre	not programmed
Additional Staff Housing (21 Cottages)	4 376 050
Children's Centre	6 243 090
Medical Centre	2 400 000
Vocational Training Centre	2 000 000
Village Centre	3 000 000
Stores, Cold Storage, etc.	not programmed
Stadium	not programmed
Sewage, Water, Electricity	not programmed
Roads	2 000 000
Street Lighting	500 000
Primary School	1 250 000
<b>TOTAL</b>	<u>64 492 890</u>

The total cost is estimated at  
Tanzanian Shillings 64,492,890.00  
These estimates are based on the  
1978 figures employed by the  
Ministry of Planning and Education,  
Tanzania (Project Planning Division).  
The estimates are based on rates/m<sup>2</sup>  
and a further 12% of the building  
costs is normally estimated by the  
Project Planning Division to include  
the cost of furnishing and fittings.

Items which are "not programmed" are  
those for which costs are not yet  
available.

## TOTAL COSTS

A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
COST ANALYSIS	A.01
AND MOROGORO TECHNICAL COMMITTEE - SH	



ESTIMATE FOR 1 DORMITORY UNIT:-

	TOTAL AREA IN m <sup>2</sup>	PRICE PER m <sup>2</sup>	TOTAL PRICE (Tanz Shs.)
1. 3 no. Dormitory Blocks of 378 m <sup>2</sup>	1 134	1 750/-	1 984 500
2. 3 no. Verandahs (rear) of 80 m <sup>2</sup>	240	850/-	204 000
3. 3 no. Verandahs (front) of 104 m <sup>2</sup>	312	850/-	265 200
4. Community Hall	530	1 700/-	901 000
and Verandah	165	850/-	140 250
5. Outhouse	51	1 500/-	76 500
with porch	16	850/-	13 600
6. Connecting Verandahs	224	850/-	190 400
7. 3 no. Teacher's Houses of 116 m <sup>2</sup>	348	1 750/-	609 000
and Verandahs	19	850/-	16 150
8. Boarding Master's House	130	1 750/-	227 500
and Verandah	19	850/-	16 150
Total Cost for 1 Dormitory Unit			4 644 250
Total Cost for 6 Dormitory Unit			27 865 500

WORKSHEET - DORMITORIES

A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
COST ANALYSIS	A.02
ANC MOROGORO TECHNICAL COMMITTEE - SH	



ESTIMATE FOR CLASSROOM SECTION:-

	TOTAL AREA IN m <sup>2</sup>	PRICE PER m <sup>2</sup>	TOTAL PRICE (Tanz. Shs.)
1. 6 no. Classroom Blocks of 374 m <sup>2</sup>	2 244	1 700/-	3 814 800
6 no. Verandahs of 158 m <sup>2</sup>	948	850/-	805 800
2. 2 no. Science Blocks of 466 m <sup>2</sup>	932	1 900/-	1 770 800
2 no. Verandahs of 158 m <sup>2</sup>	316	850/-	268 600
3. Teacher's Block	476	1 700/-	809 200
Verandah	146	850/-	124 100
4. Special Classroom Block	376	1 700/-	623 900
Verandah	124	850/-	105 400
5. Inter-Connecting Verandah including square	1 325	850/-	1 126 250
TOTAL COST FOR CLASSROOM SECTION			9 448 350

ESTIMATE FOR ITEMS BASED ON SKETCH PLANS:-

1. Administration Block	600	1 750/-	1 050 000
Verandah	250	850/-	212 500
2. Library	800	1 750/-	1 400 000
Verandah	250	850/-	212 500
TOTAL COST FOR LIBRARY AND ADMINISTRATION			2 875 000

WORKSHEET-SCHOOL

A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
COST ANALYSIS	A.03
TANC MOROGORO TECHNICAL COMMITTEE-SH	



# ESTIMATE FOR CHILDRENS CENTRE

	TOTAL AREA IN m <sup>2</sup>	PRICE PER m <sup>2</sup>	TOTAL PRICE (Tanz. Shs.)
1. 6 Nursery Group units of 201 m <sup>2</sup>	1 206	1 750/-	2 110 500
2. 4 Creche Group units of 154 m <sup>2</sup>	616	1 750/-	1 078 000
3. 1 Infant group unit	128	1 750/-	224 000
4. Dining Hall/Kitchen	292	1 700/-	496 400
5. Out House with Porch	51	1 500/-	76 500
6. Administration/Sick Bay	346	1 750/-	605 500
7. Verandahs, connecting covered walks, Terraces and Culture Workshop	1 594	850/-	1 354 900
TOTAL			5 945 800
Contingencies 5% of Total			297 290
COST OF CHILDRENS CENTRE			6 243 090

ESTIMATE BASED ON INITITAL SKETCH SCHEME

WORKSHEET-CHILDRENS  
CENTRE

A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
COST ANALYSIS	A.04
ANC MOROGORO TECHNICAL COMMITTEE - SH	



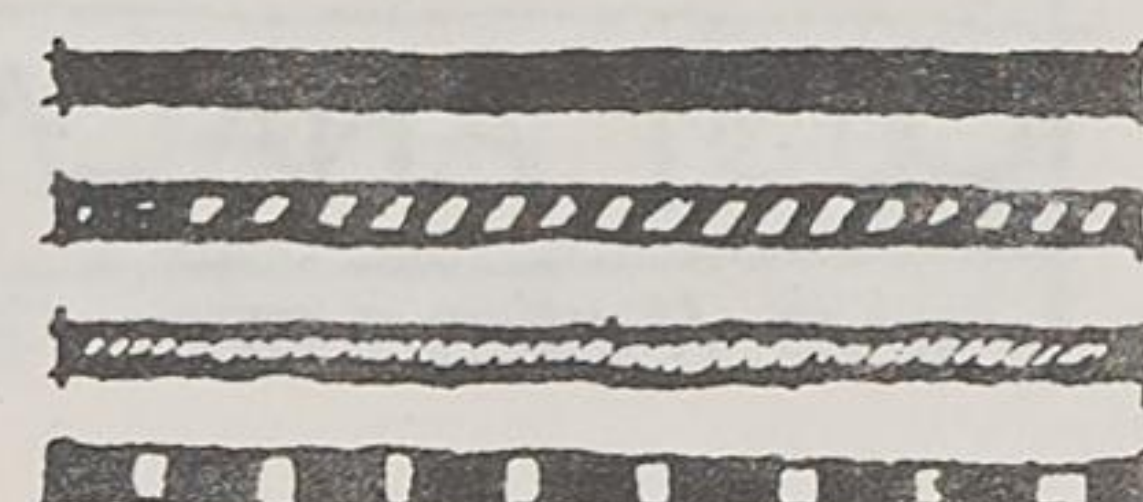
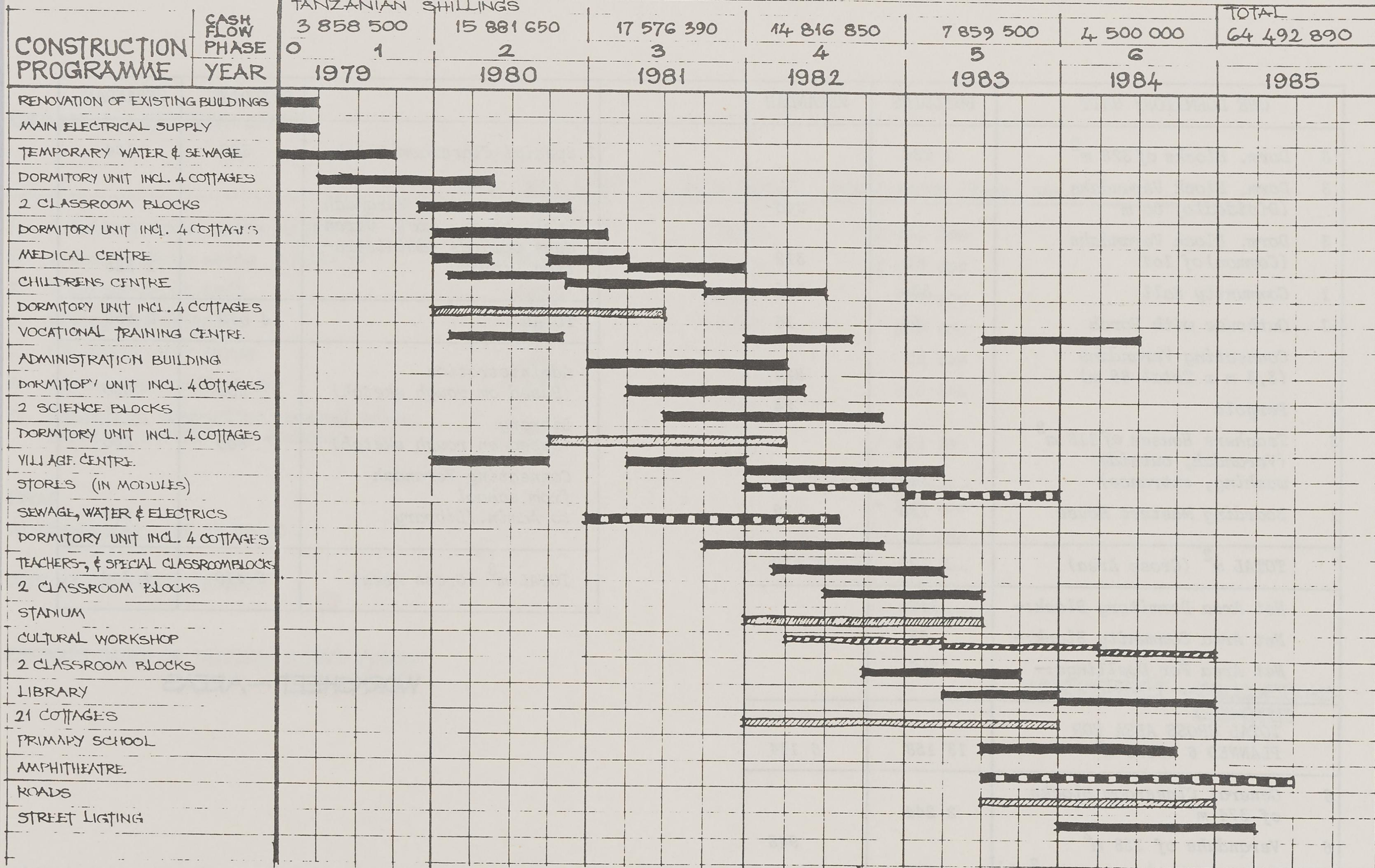
ONE DORMITORY UNIT		BUILDING	VERANDAH
3	Dorm. Blocks of 378 m <sup>2</sup>	1 134	
3	Dorm. Block Verandahs (Divided) of 80 m		240
3	Dorm. Block Verandahs (Common) of 104		312
1	Community Hall	530	165
1	Outhouse with Porch	51	16
	Connecting Verandahs (3,3 m x Total 68 m)		224
1	Pergola		24
3	Teachers Houses of 116 m <sup>2</sup> (Verandah, outside washing, entrance)	348	19
1	Boarding Masters House	130	19
TOTAL m <sup>2</sup> (Gross Area)		2 193	1 019
Net Area Dormitory Block:-		11%	
Net Area Community Block:-		6%	
Net Area For Dwellings:-		12½%	
TOTAL GROSS AREA FOR PLANNED 6 UNITS m <sup>2</sup>		13 158	6 114
6	General Classroom Blocks of 374 m <sup>2</sup>	2 244	
6	Verandahs of 158 m <sup>2</sup>		948
2	Science Blocks of 446 m <sup>2</sup>	932	
2	Verandahs of 158 m <sup>2</sup>		316
1	Teachers Block	476	146

	BUILDING	VERANDAH
1 Special Classroom Block	367	124
Interconnecting Verandah incl. square excl. verandahs towards Administration/Library		1 325
TOTAL	4 019	2 859
Administration (Based on rough sketch)	600	250
Library (Based on rough sketch)	800	250
Connecting Verandah from school to Admin./Library		945
TOTAL m <sup>2</sup> (Gross Area)	5 419	4 304

## WORKSHEET ~ AREAS

A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
COST ANALYSIS	A. 05
ANC MOROGORO TECHNICAL COMMITTEE - SH	



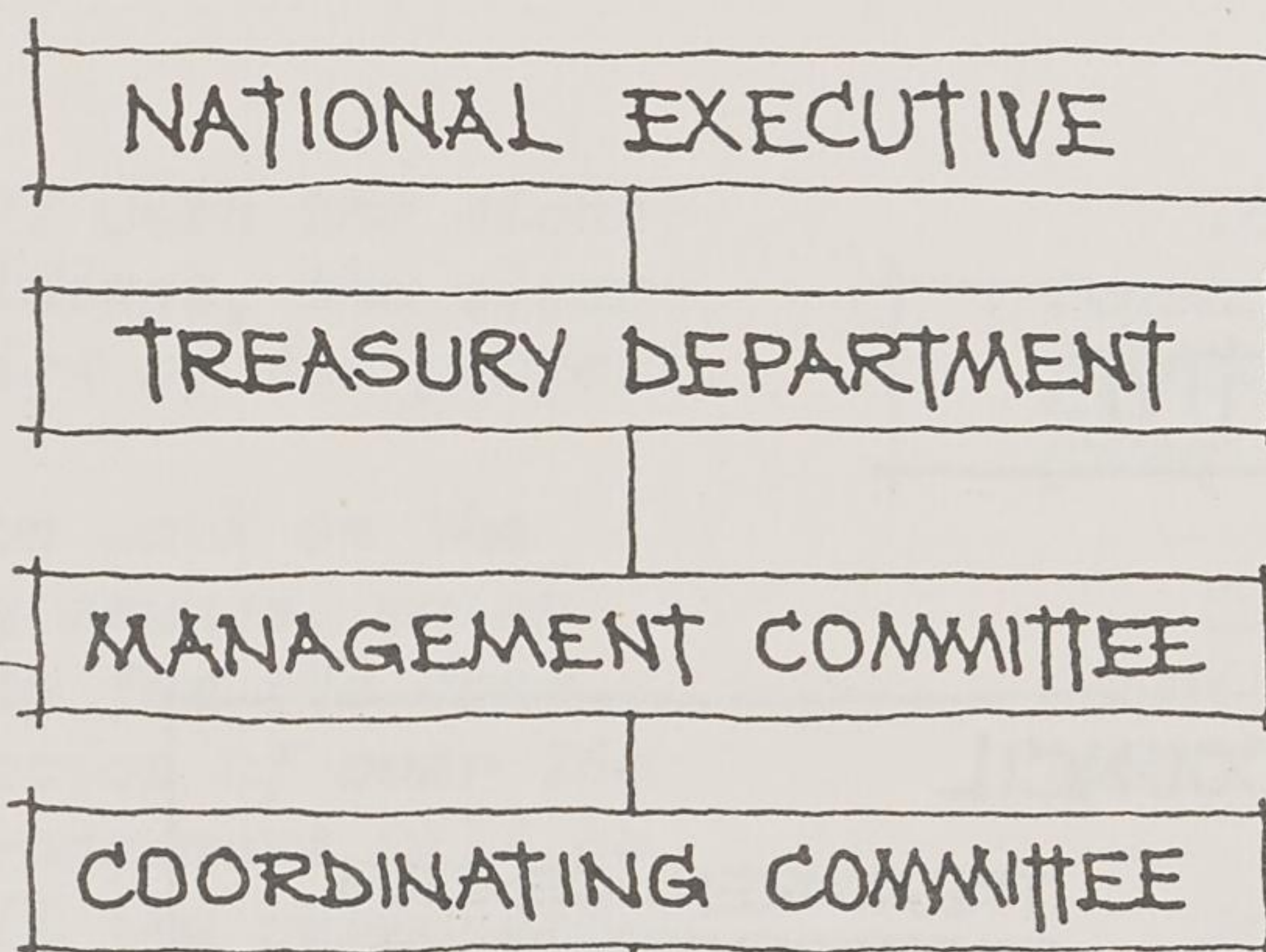


AND CONSTRUCTION DEPARTMENT  
 STUDENT PROJECTS WITH MINIMUM SUPERVISION  
 LET OUT ON CONTRACT  
 NOT PROGRAMMED FOR COSTS

A.N.C. SCHOOL, MAZIMBU, MOROGORO  
 PROJECT DESCRIPTION OCT 1979  
**BAR CHART**  
 P.01  
 ANC, MOROGORO TECHNICAL COMMITTEE - SH



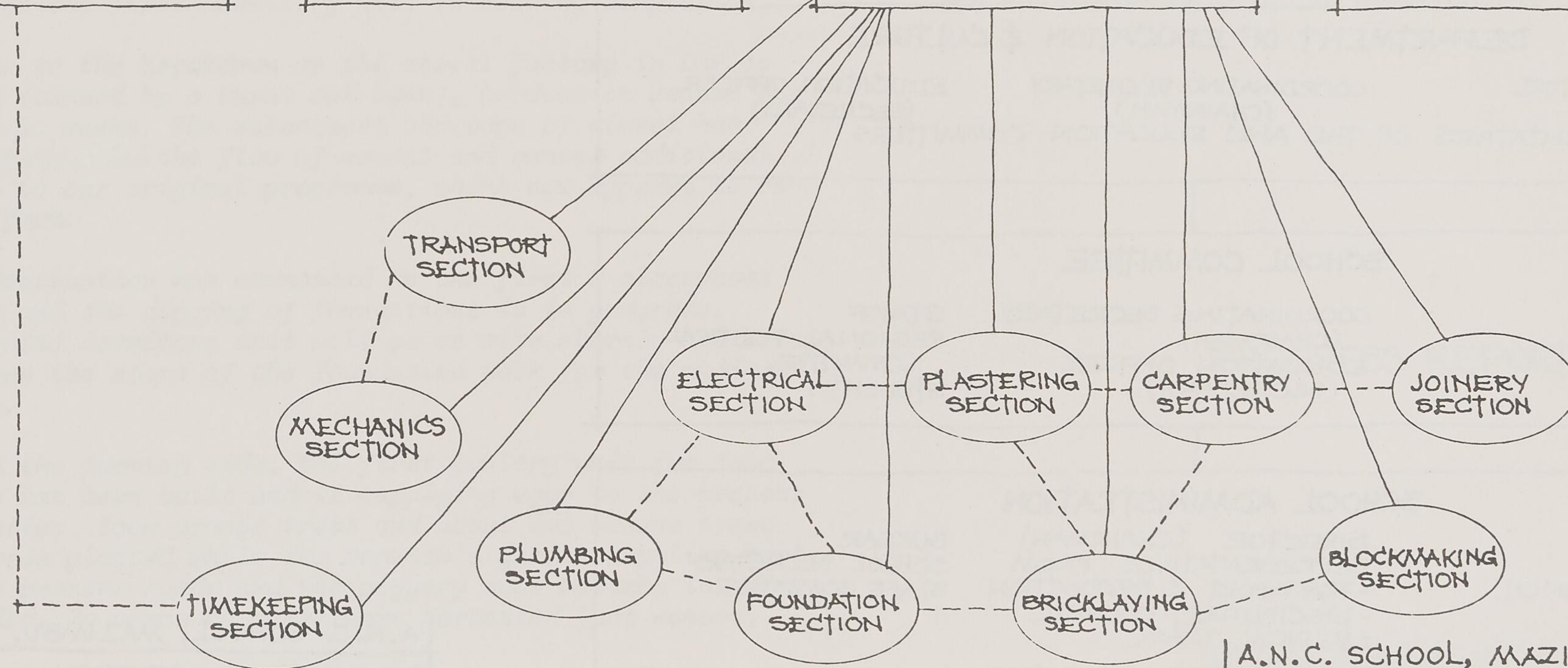
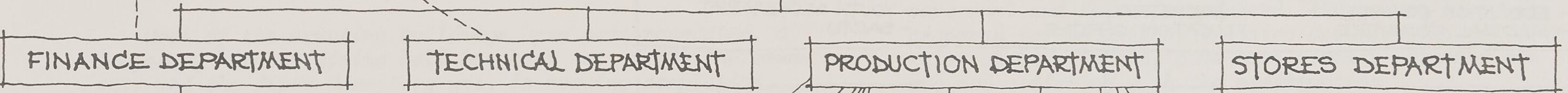
# A.N.C. CONSTRUCTION MANAGEMENT



APPOINTED BY TREASURY

HEADS OF DEPARTMENTS +  
MANAGEMENT COMMITTEE

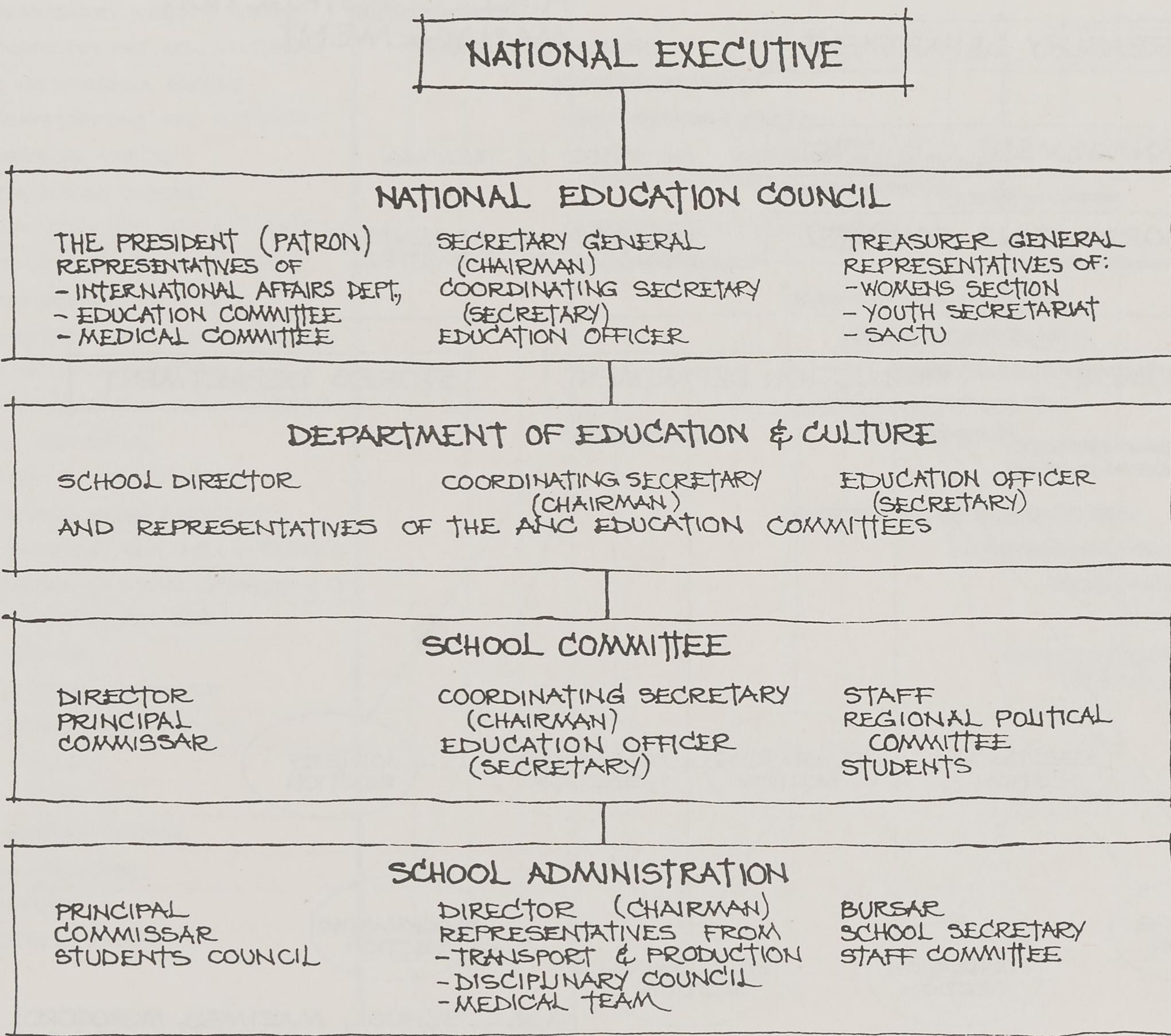
CONTRACTORS/  
SUBCONTRACTORS



A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
MANAGEMENT	M.OI
ANC, MOROGORO TECHNICAL COMMITTEE ~ SM/SH	



# A.N.C. EDUCATION STRUCTURE



A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
MANAGEMENT	M.02
ANC MOROGORO TECHNICAL COMMITTEE ~ SH	



Work on the site began in October 1977 with the cleaning up and renovating of the disused buildings, the clearing of the land and the planning and design of the project.

At the beginning of 1979, construction work on the first dormitory unit commenced. Temporary sewage, water and electricity have been laid on not only for the construction but also for the present population of over 150 students and teachers. This temporary arrangement will be adequate to serve the planned growth until the permanent water and electrical supply is completed.

Most of the existing buildings have been renovated, a temporary kitchen/dining hall has been set up for the students and the first dormitory unit is nearing completion.

Due to the breakdown at the cement factory in Dar es Salaam (caused by a burnt out oven), production ceased for a full 10 weeks. The subsequent shortage of diesel has further retarded the flow of cement and caused additional delays to our original programme, which now appears in revised form.

Construction has commenced on the first 2 classrooms blocks and the digging of foundations is in progress. The second dormitory unit will go on site shortly and 1980 will see the start of the foundation work for the medical centre.

On the farming side, the first poultry unit for 1000 layers has been built and is supplying eggs to the present population. 1000 orange trees and about 500 banana trees have been planted while the vegetable garden supplies most of the present needs and the piggery near Mazimbu is being upgraded. 70 acres of maize were harvested last season.

The school, though not officially opened, has been teaching Form 1 - Form 5 classes since May of this year, following the appointment of the Principal and a small group of teachers.

Curricula are being developed by the ANC Education Committees in various countries abroad as well as on the spot.

Adult education training was introduced from the inception. In addition to literacy classes both for ANC personnel and Tanzanian workers, ANC cadres have been prepared for vocational training and technical scholarships abroad. Indeed, some have already returned and are now assisting with the construction.

## PROGRESS REPORT

A.N.C. SCHOOL, MAZIMBU, MOROGORO	
PROJECT DESCRIPTION	OCT 1979
PROGRESS	R. 01
ANC MOROGORO TECHNICAL COMMITTEE - SH	





**issued by the African National Congress of South Africa**