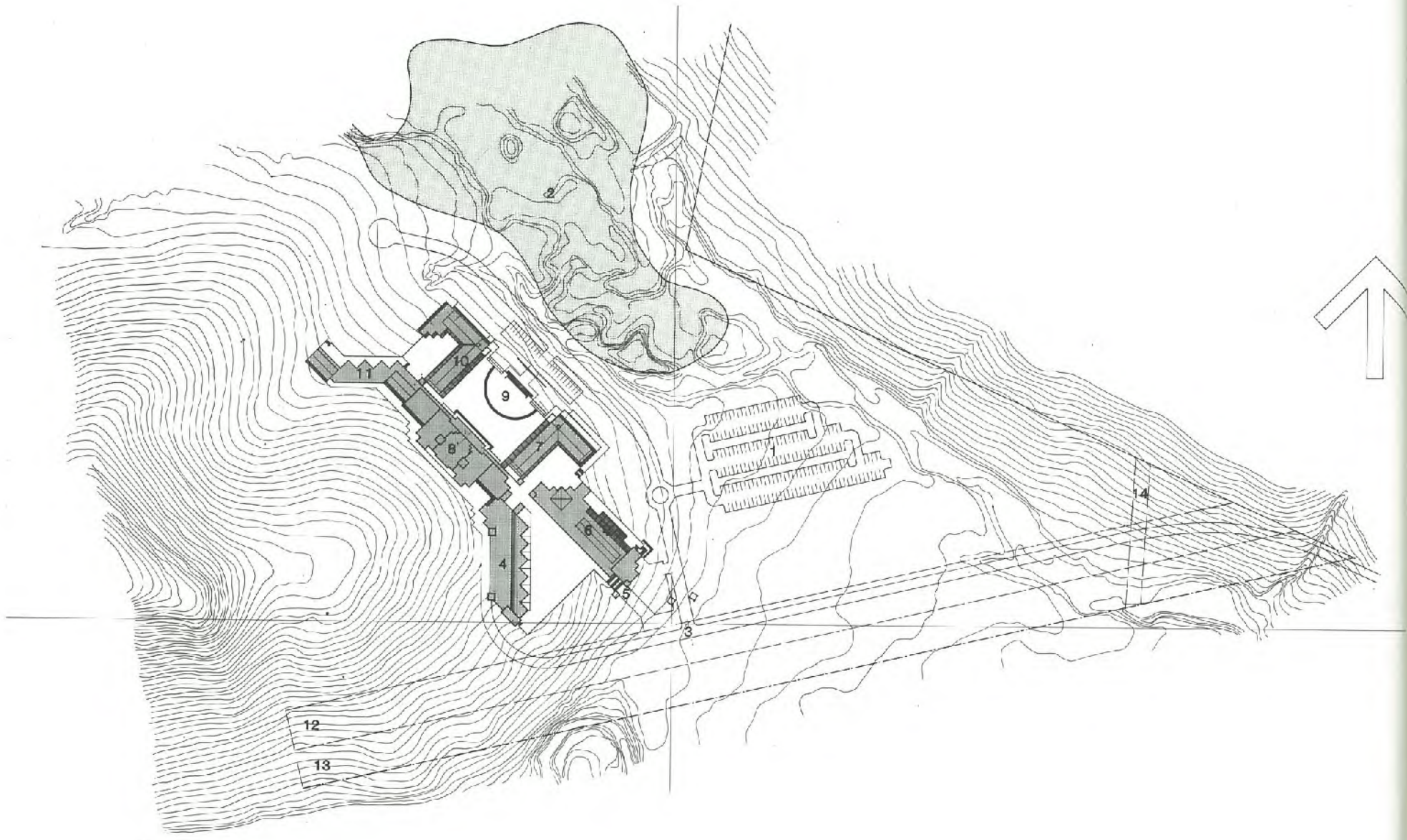
MACARTHUR INSTITUTE OF HIGHER EDUCATION

MARCH 1984

CAMPBELLTOWN CAMPUS

SKETCH DESIGN STAGE 1

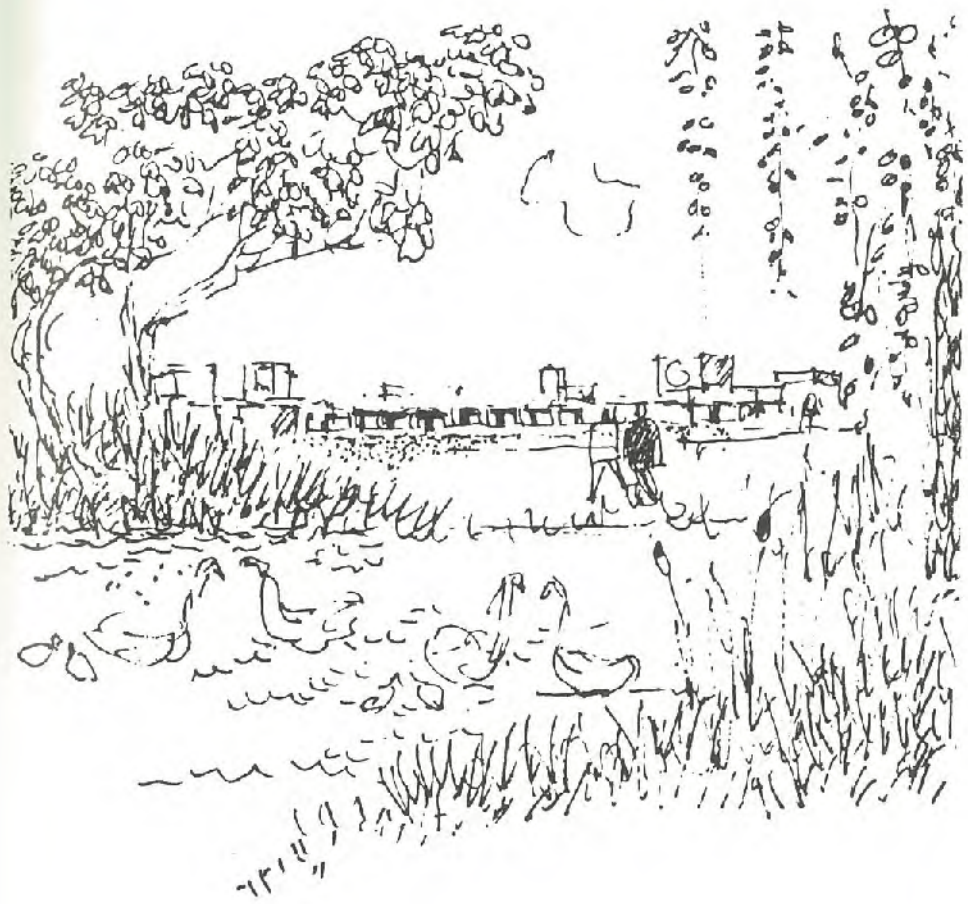
PHILIP COX & PARTNERS PTY LTD ARCHITECTS
2 McManus Street North Sydney



LEGEND

1 CARPARK
2 LAKE
3 ACCESS ROAD
4 RESOURCES CENTRE
5 ENTRY
6 UNION & FOOD SERVICES
7 ADMINISTRATION
8 GENERAL TEACHING
9 QUADRANGLE
10 ACADEMIC OFFICES
11 SPECIALIST TEACHING
12 ROAD EASEMENT
13 STORMWATER EASEMENT
14 ELECTRICAL EASEMENT

SITE PLAN



SECTION 2

PROPOSAL

SUMMARY

The proposal for Stage 1 of the Institute.

In this stage it is proposed to provide a complete Institute of Higher Education for 600 EFTS. It will form the nucleus for an expected 4000 EFTS Institute by 1997.

In the first stage services and roads sufficient to service the ultimate Institute are being brought to site. Major engineering services include the provision of water, gas, stormwater, electricity, and sewerage to the site from the authorities mains.

Building works in the first stage comprise construction of the following:

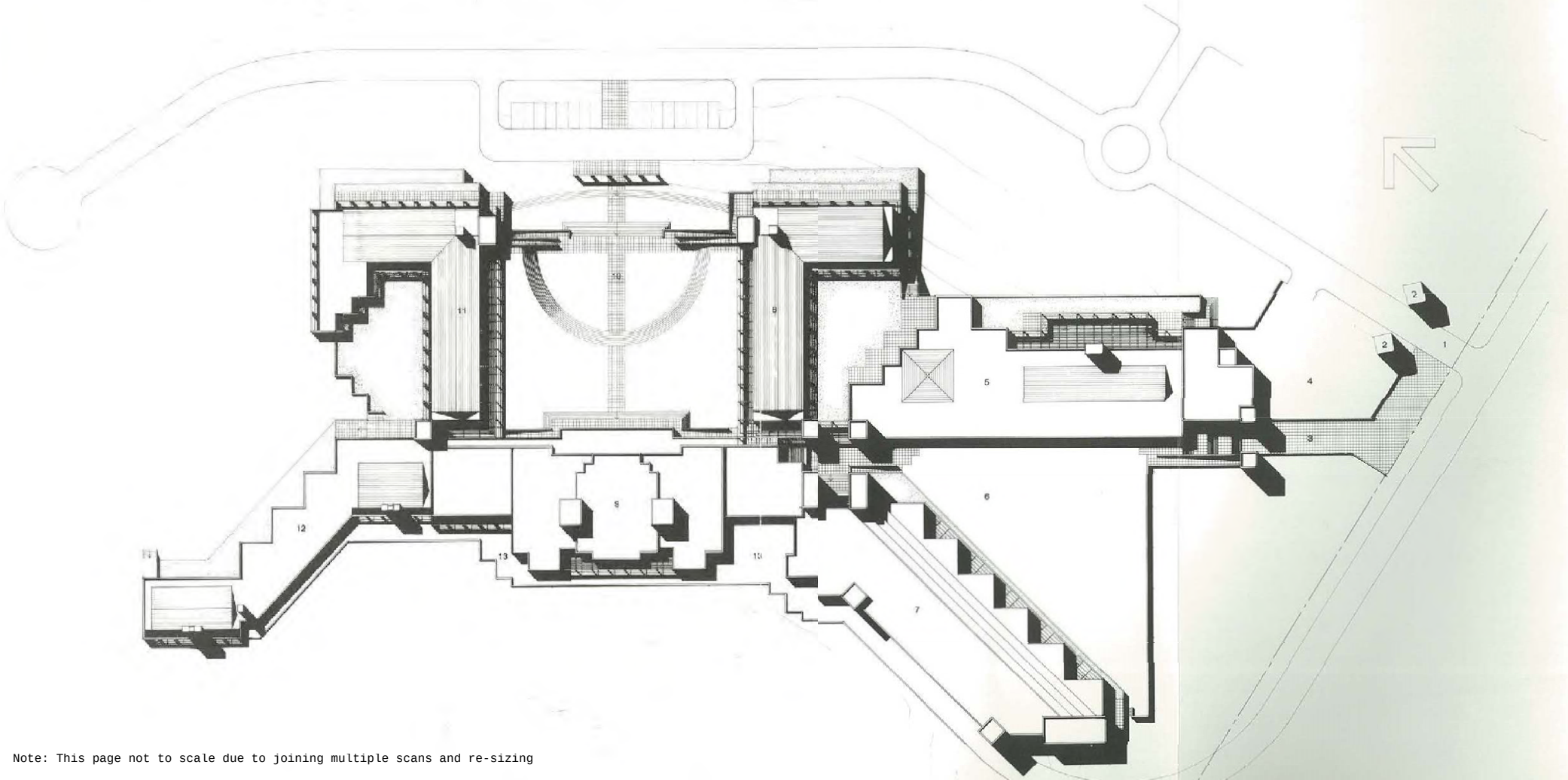
. Resource Centre
. Student Union and Road Services Building
. Administration Centre
. General Teaching Building
. Academic Offices Block
. Specialist Teaching Centre

Landscaping of the site in Stage 1 includes re-afforestation of the ridgeline planting to areas disturbed by the building contractor and intensive landscaping around the buildings.

MASTER PLAN

LEGEND

1. ACCESS ROAD
2. GATE HOUSE
3. ENTRY
4. SERVICE YARD
5. UNION & FOOD SERVICE
6. FORECOURT
7. RESOURCES CENTRE
8. ADMINISTRATION
9. GENERAL TEACHING
10. QUADRANGLE
11. ACADEMIC OFFICES
12. SPECIALIST TEACHING
13. SERVICE ROAD



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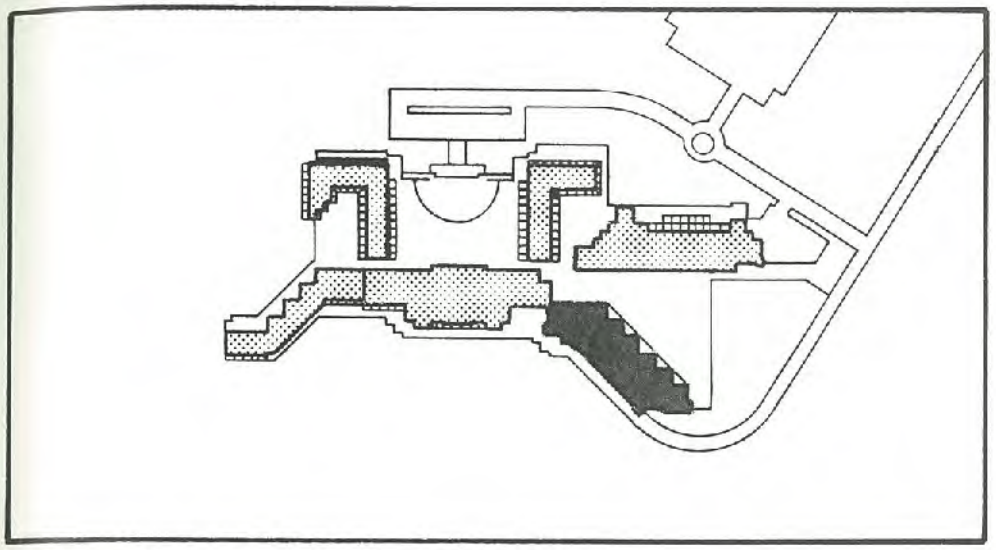
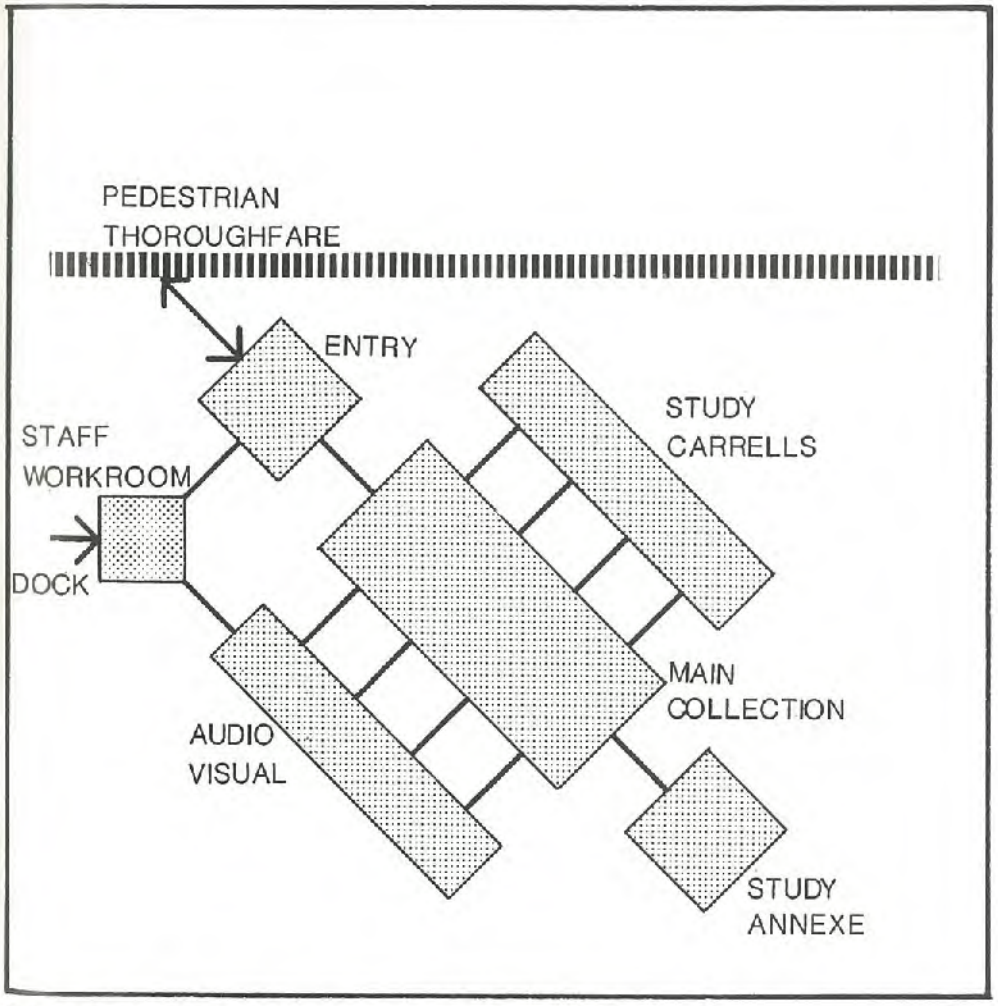
1.
RESOURCES CENTRE



SITE PLAN



FUNCTIONAL RELATIONSHIP

RESOURCES CENTRE

The resources centre is located near the main entry to the campus and overlooks the forecourt and student union. The entry to the library located at the centre of the Stage 1 development is off the main pedestrian link.

The building is two storeys high with the upper floor being a large mezzanine.

The centre will house some 60,000 volumes, an audio-visual collection, and be the source for the distribution of video programmes to the Institute teaching areas.

On the ground floor, students enter the building via a foyer space and then pass by the circulation desk. Those entering will have a book security system. Adjacent to the circulation desk is the staff workroom, librarian offices and loading dock, and a room housing computer terminals for information searches by staff and the public.

In front of the circulation desk is the information desk and computorized catalogues.

Moving further into the two storey public space, the main stack areas begin, with the reference collection audio visual collection and part of the main collection being on the ground floor.

Also on the ground floor,. under the mezzanine, an audio visual centre is located including rooms for the servicing of equipment, production of audio visual material and a 30 seat seminar room.

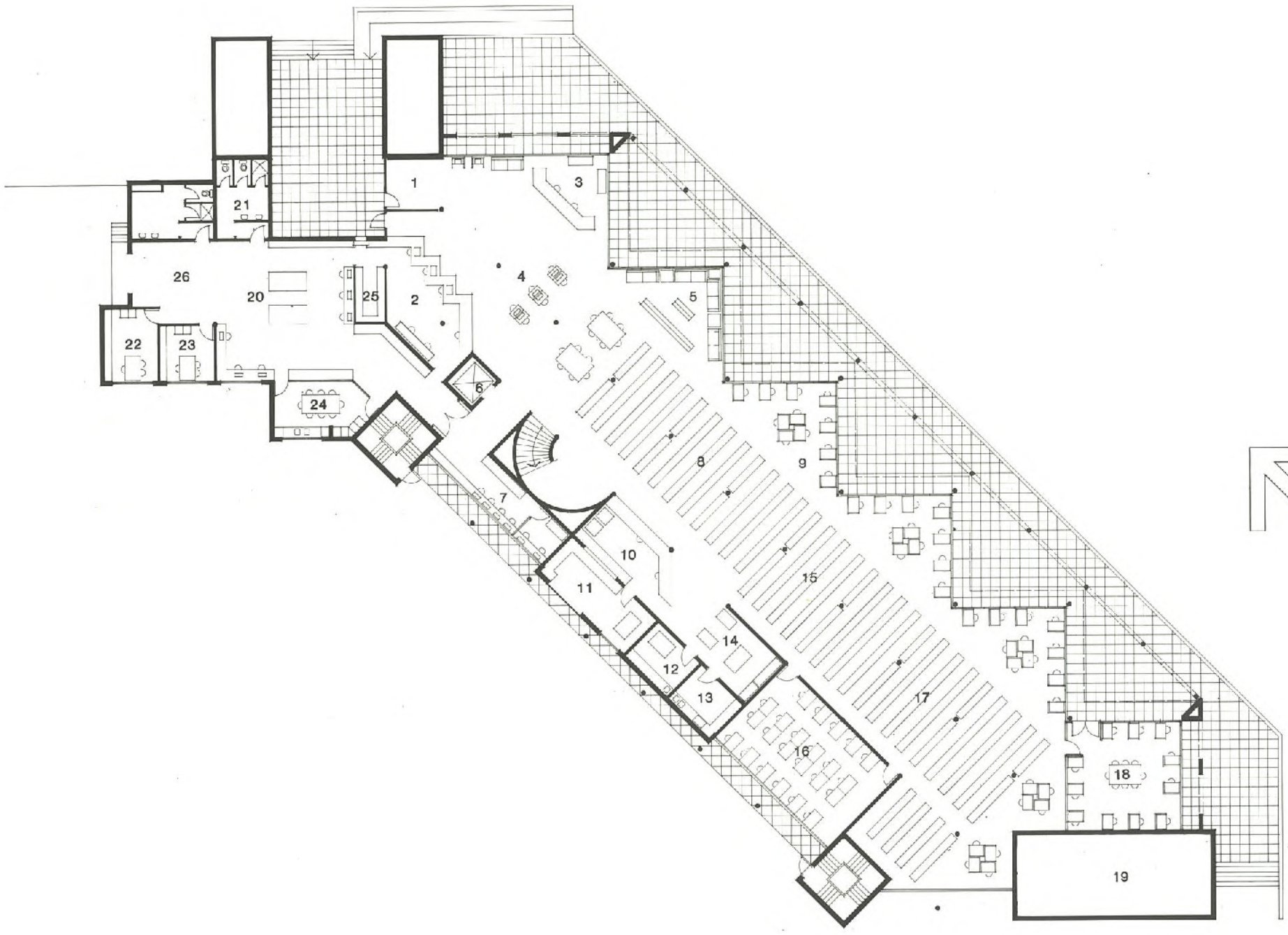
A late night annexe for 20 persons is located at the south east end of the building.

The upper mezzanine floor is accessed by an eliptical staircase and a lift. The lift is designed for the movement of books and disabled persons only and its use will be controlled by staff.

On the upper floor, the balance of the main collection is located together with some open study areas.

Spaced throughout the two floors are 120 reader carrels, informal reading and group study areas.

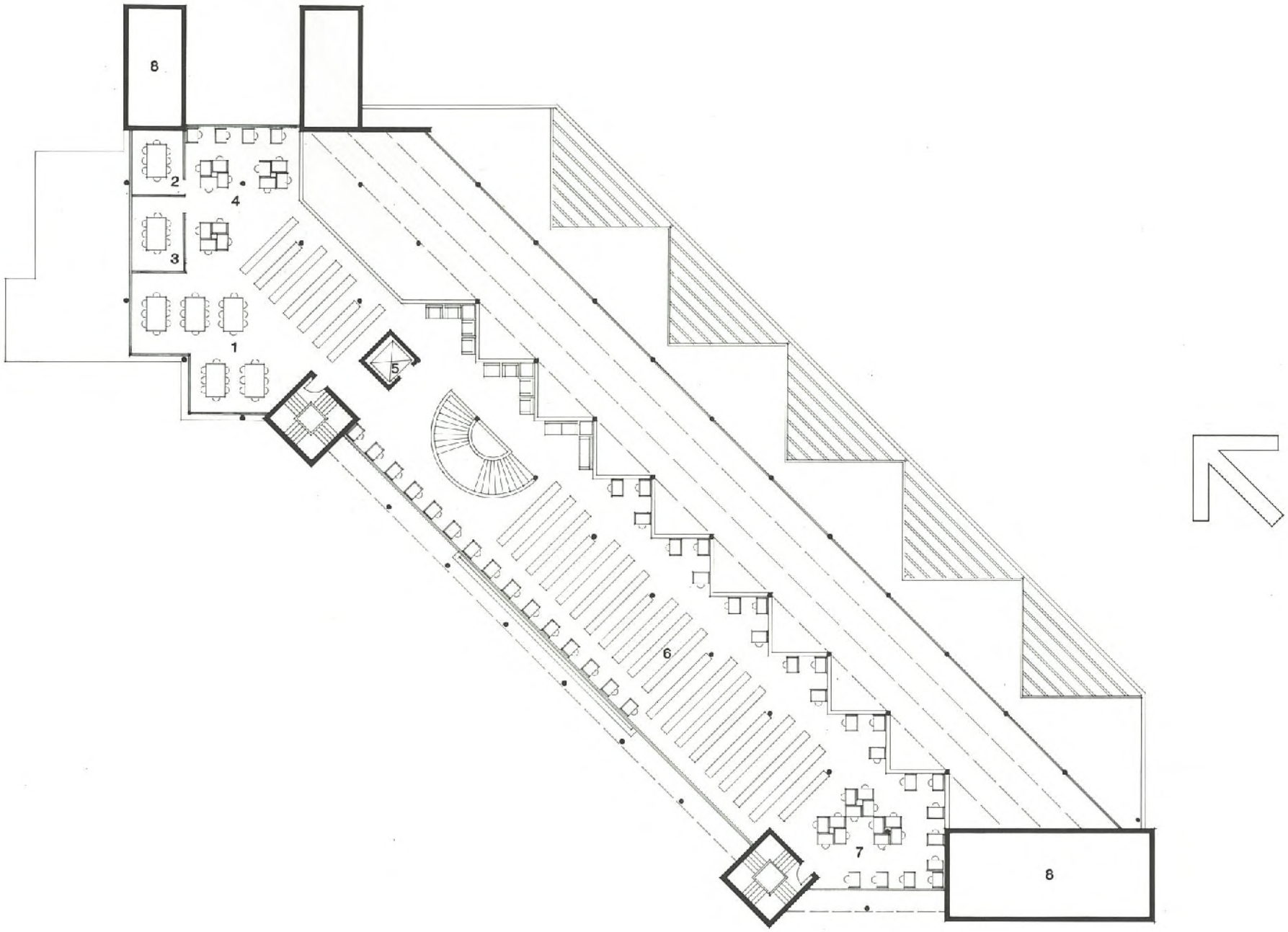
The building is to be fully air conditioned, the plant being located in masonry towers at either end of the building.



GROUND FLOOR PLAN

LEGEND

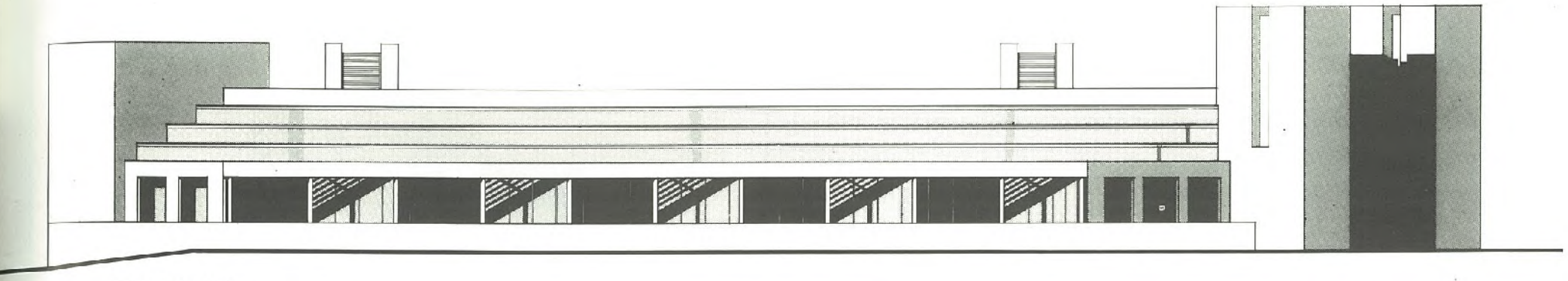
1	ENTRY	10	A/V DISTORTION	19	PLANT
2	CIRCULATION COUNTER	11	A/V SERVICING	20	WORKROOM
3	INFORMATION COUNTER	12	PHOTOGRAPHIC	21	STAFF TOILETS
4	CATALOGUES	13	DARK ROOM	22	OFFICE
5	JOURNALS	14	A/V PRODUCTION	23	OFFICE
6	LIFT	15	A/V COLLECTION	24	TEAROOM
7	COMPUTER TERMINALS	16	A/V SEMINAR	25	RESERVE
8	REFERENCE	17	MAIN COLLECTION	26	LOADING
9	STUDY CARRELLS	18	STUDY ANNEXE		



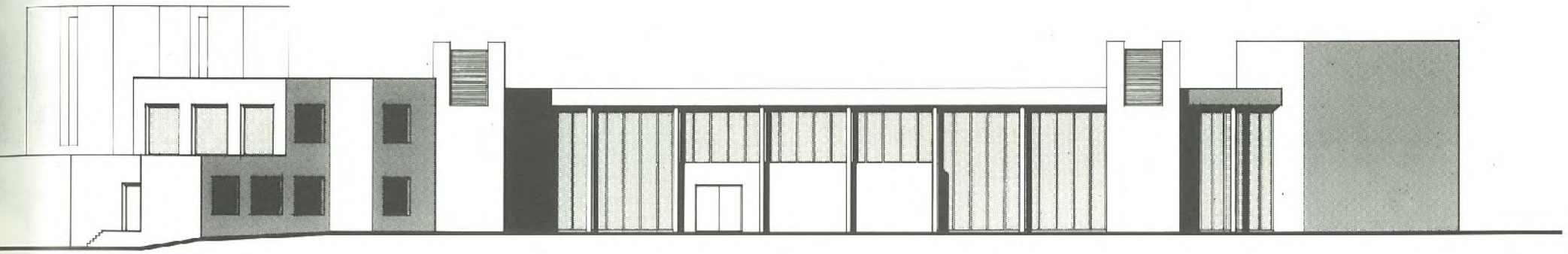
LEGEND

1 OPEN STUDY AREA
2 STUDY ROOM
3 STUDY ROOM
4 STUDY CARRELLS
5 LIFT
6 MAIN COLLECTION
7 STUDY CARRELLS
8 PLANT

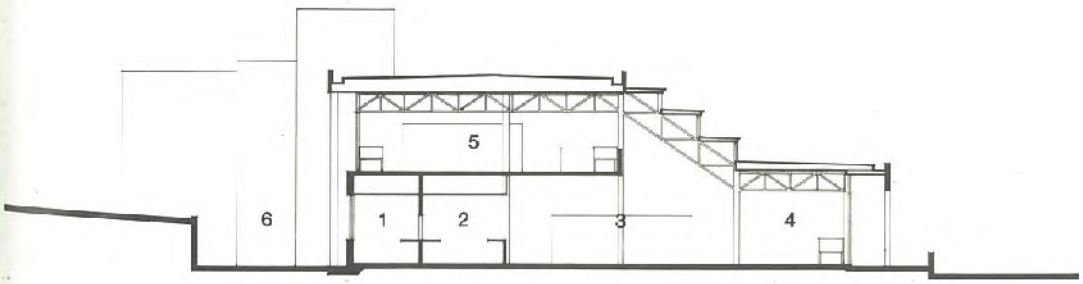
MEZZANINE FLOOR PLAN



EAST ELEVATION



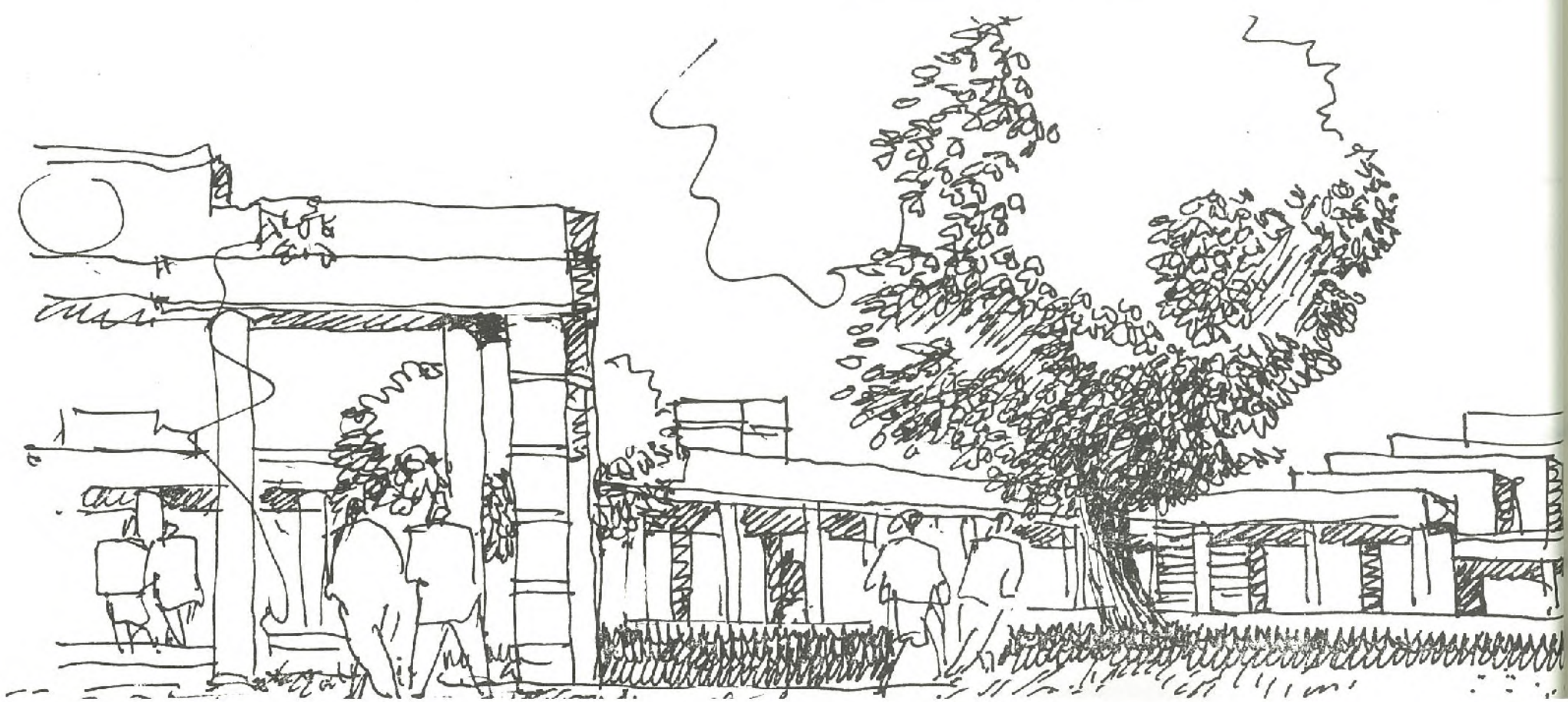
WEST ELEVATION

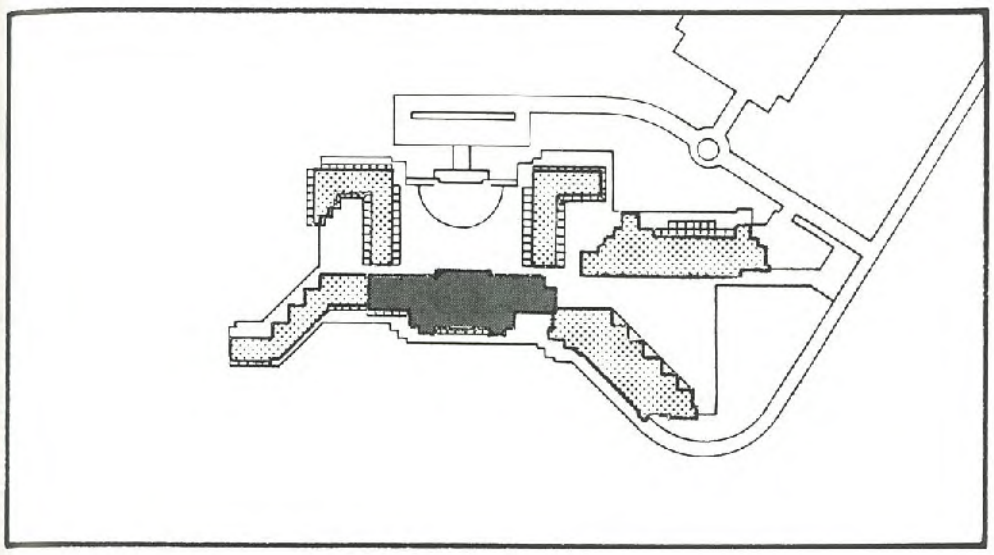


SECTION

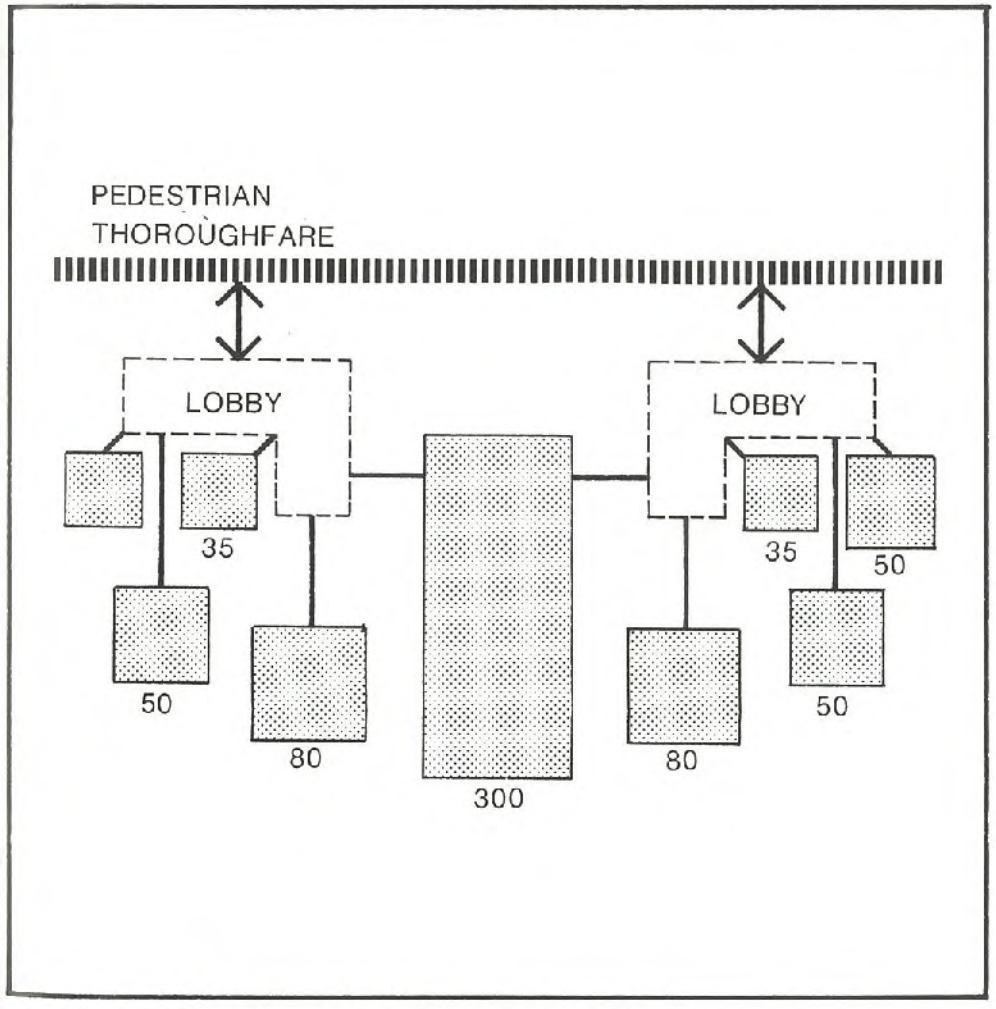
ELEVATIONS AND SECTION

4.
GENERAL TEACHING





SITE PLAN



FUNCTIONAL RELATIONSHIP

GENERAL TEACHING

At the head of the main quadrangle, between the administration and academic buildings is located the General Teaching Block.

The building faces the main quadrangle and completes a pedestrian link between the buildings to the north west of the site and the union building.

Access to the teaching spaces is off the covered link via two enclosed, air conditioned lobbies.

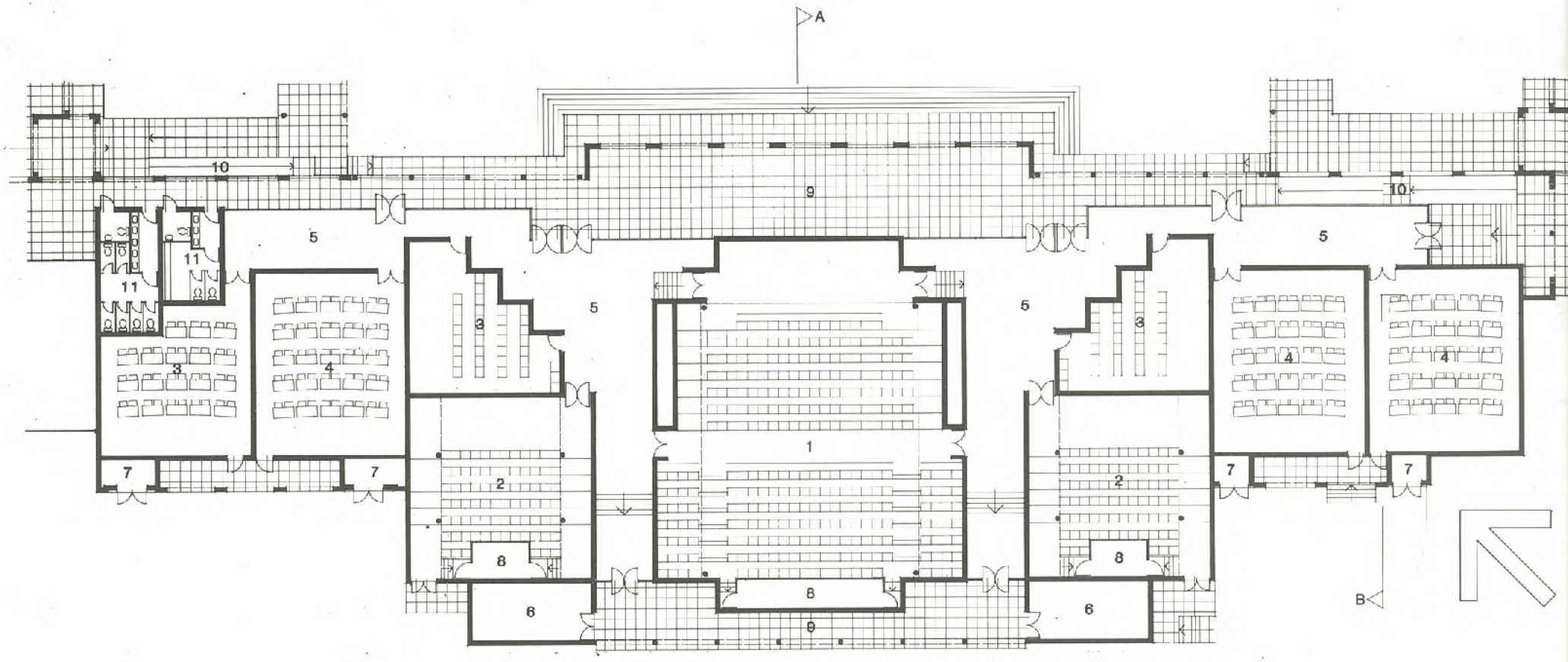
The main teaching space is a 300 seat raked, fixed seat theatre fully equipped with projection facilities, screens, and lights. Provisions have been allowed for in the installation of lecterns and a sound reinforcement system.

On either side of the main theatre are two 80 seat raked lecture theatres equipped as for the 300 seat theatre.

All other teaching spaces are flat floor rooms and comprise three 50 seat lecture rooms and three 35 seat seminar rooms. These rooms are designed to have loose furniture.

It is proposed to air condition all teaching spaces with package units adjacent to the spaces and to locate the boiler room and cooling tower in two masonry towers over the lobbies.

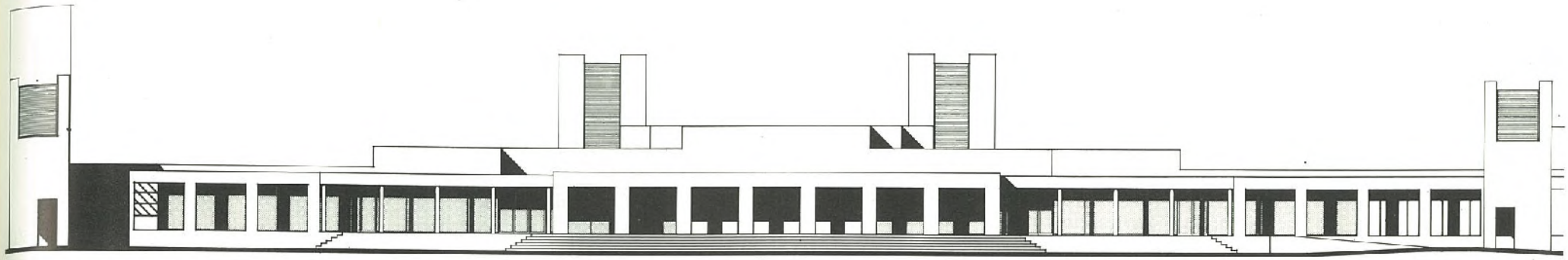
Service access to the building is from a road which runs around the rear of the Stage complex. Beside this service road it is proposed to locate a kiosk substation which will feed the main switchroom at the rear of general teaching block.



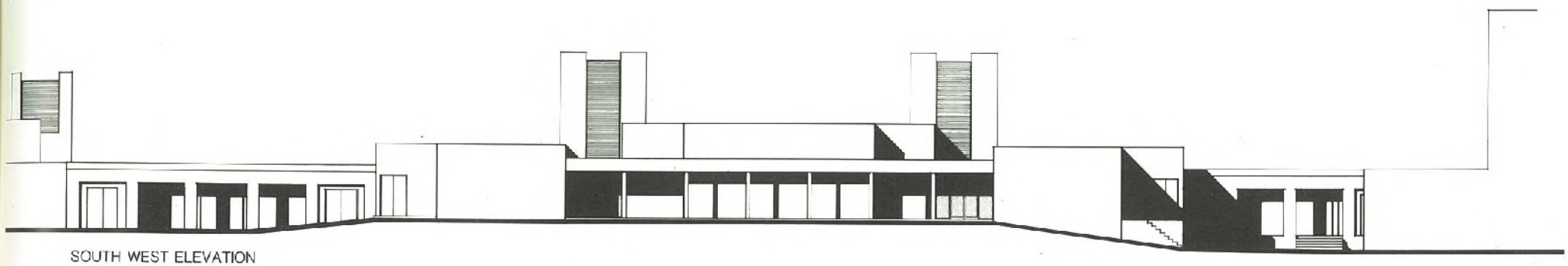
LEGEND

1 300 SEAT THEATRE
2 80 SEAT THEATRE
3 35 SEAT SEMINAR ROOM
4 50 SEAT SEMINAR ROOM
5 FOYER
6 STORE
7 PLANT ROOM
8 PROJECTION ROOM
9 WALKWAY
10 RAMP
11 STUDENT W.C.

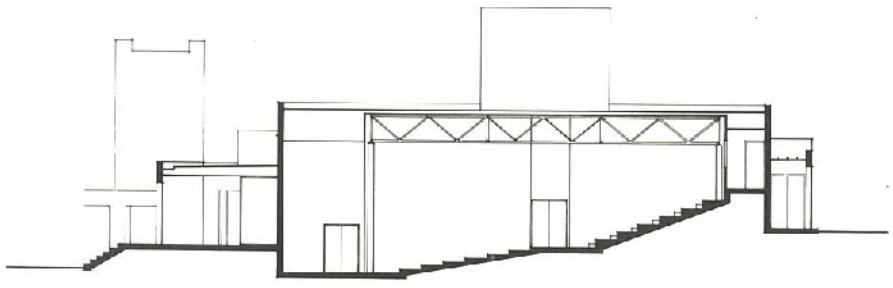
FLOOR PLAN



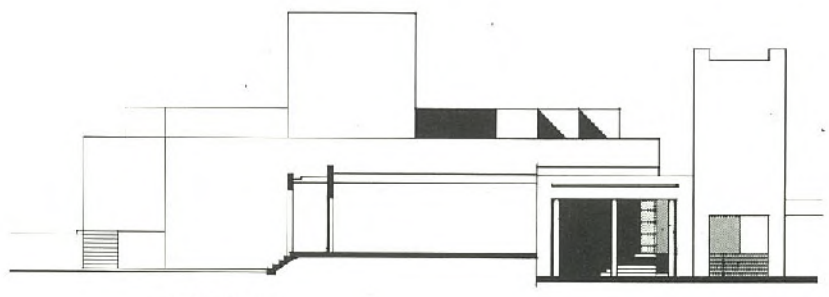
NORTH EAST ELEVATION



SOUTH WEST ELEVATION



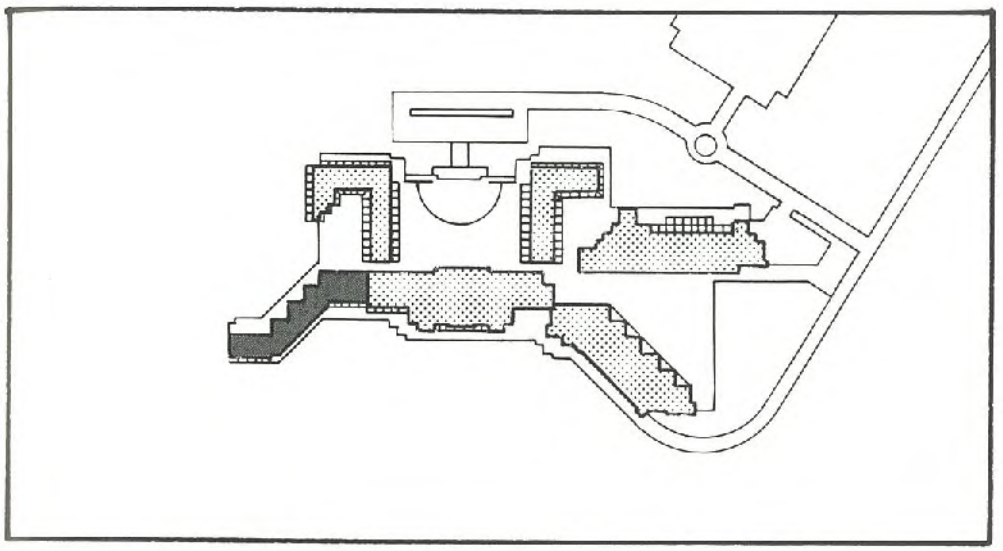
SECTION AA



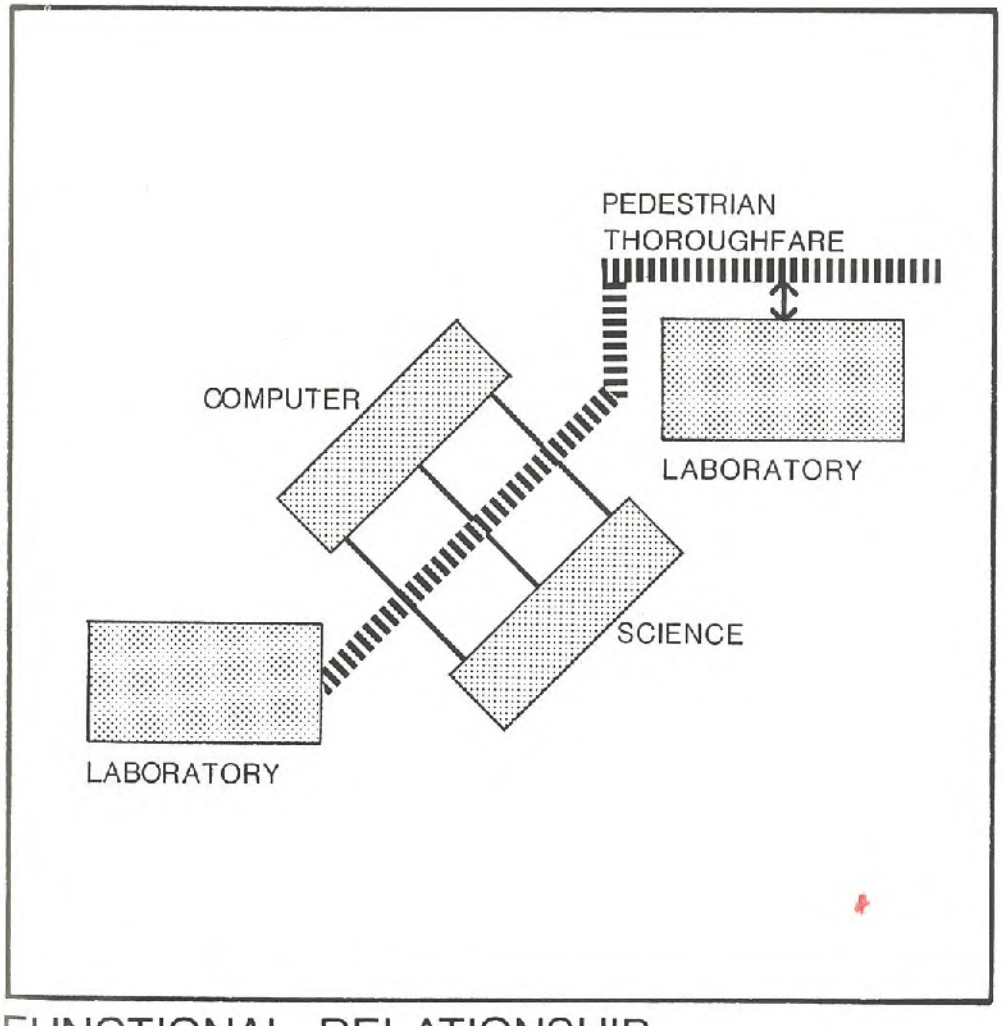
SECTION BB

ELEVATIONS AND SECTIONS

6.
SPECIALIST FACILITIES



SITE PLAN



FUNCTIONAL RELATIONSHIP

SPECIALIST FACILITIES

The specialist teaching building is located at the north western end of the proposed Stage 1 development, attached to General Teaching Building and adjacent to the Academic Building.

The covered walkway which runs along the front of the general teaching foyer spaces continues into the specialist teaching facility, forming a central pedestrian spine off which the teaching spaces open.

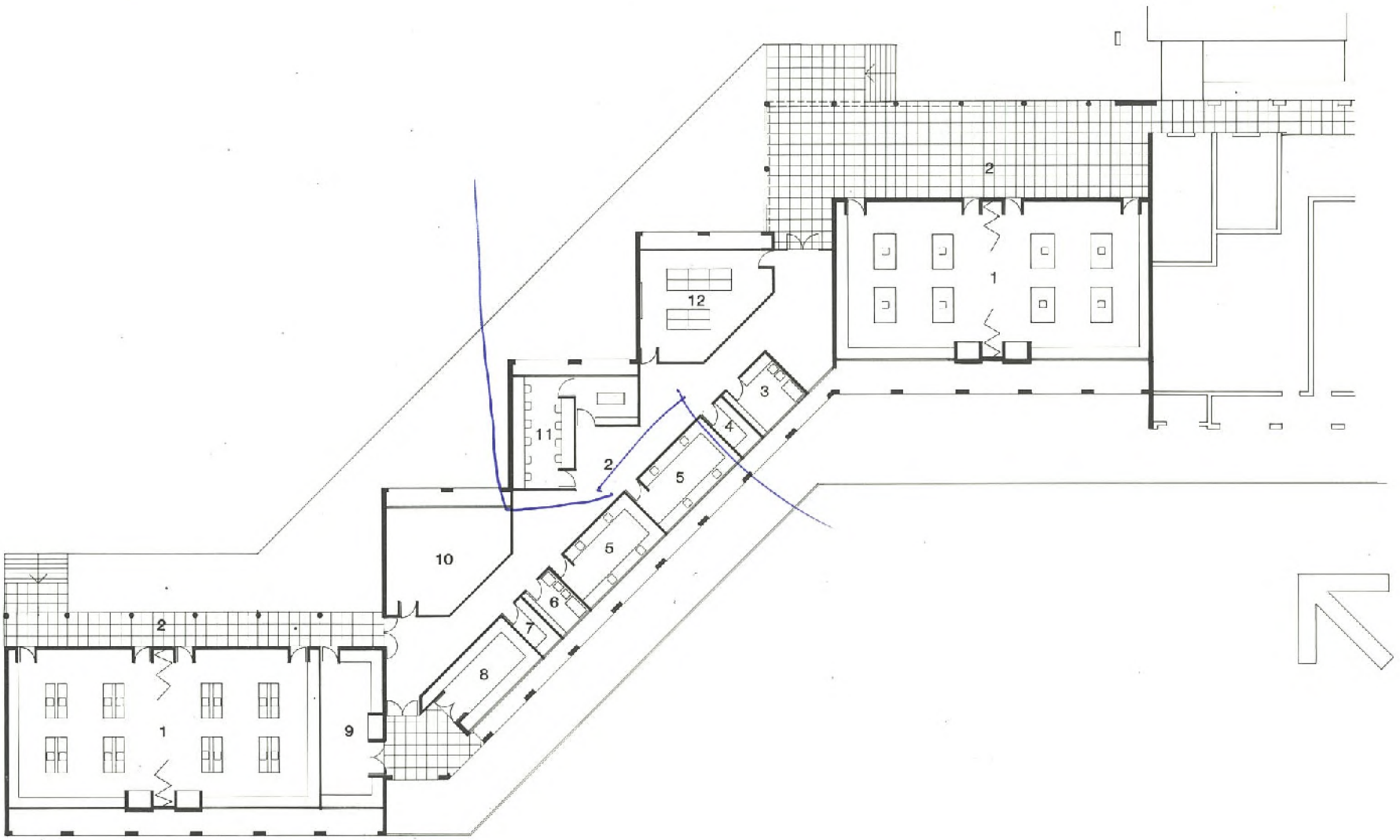
Specialist teaching facilities are divided into computer studies and science units.

The computer studies unit consists of a ten seat computer laboratory, an 18 seat seminar room, stores and an office for the unit head. The Institute computer will be accessible in all campus teaching spaces and academic offices by the provision of under slab conduits and ducted skirtings.

The science unit is built around a thirty seat physics laboratory and a thirty seat chemistry laboratory. Adjacent the laboratories is a chemical store, physics store, preparation room and office. In addition two reseach laboratores suitable for four persons are provided.

All laboratories are to be fully equipped with built in benches and storage cupboards and serviced with water and gas. Two fume cupboards are located in each large laboratory and one in the preparation room. The chemical store is also equipped with acid storage cupboards and a drench shower.

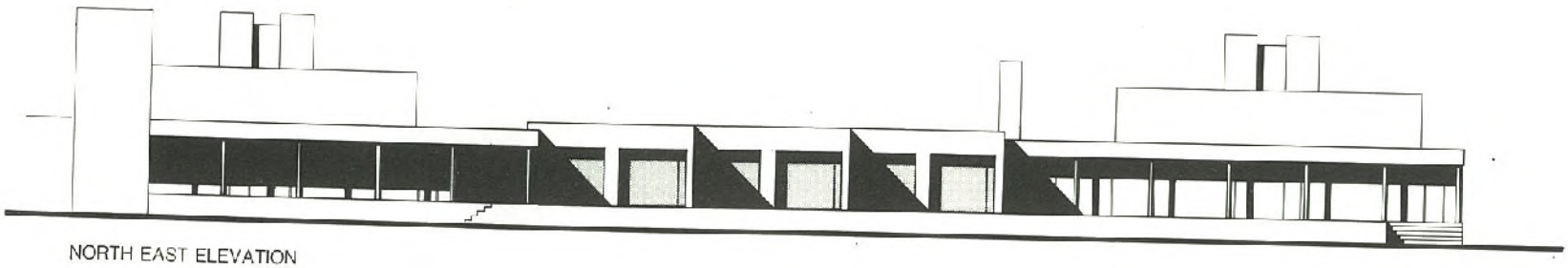
Service areas for the delivery of chemicals, paper etc. and for emergencies is provided at the rear of the building.



LEGEND

1 LABORATORY
2 WALKWAY
3 COMPUTER OFFICE
4 COMPUTER STORE
5 SMALL LABORATORY
6 SCIENCE OFFICE
7 PHYSICS STORE
8 CHEMICAL STORE
9 PREPARATION ROOM
10 HUMAN PERFORMANCE LABORATORY
11 COMPUTER LABORATORY
12 COMPUTER SEMIMAR ROOM

FLOOR PLAN



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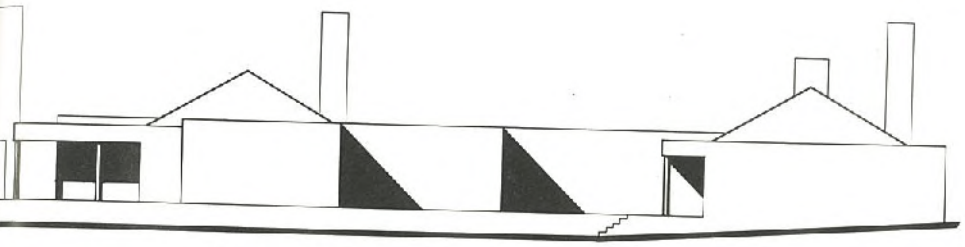

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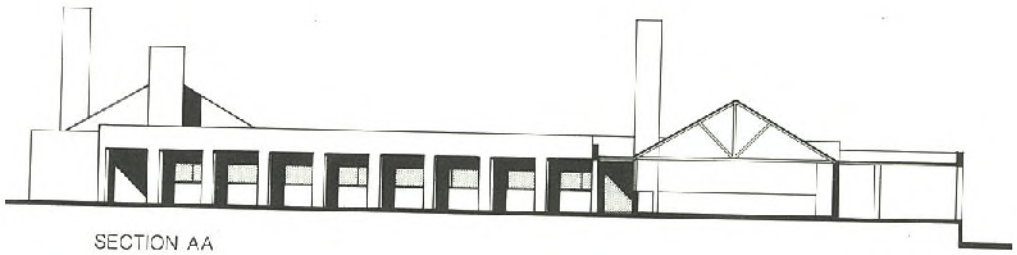
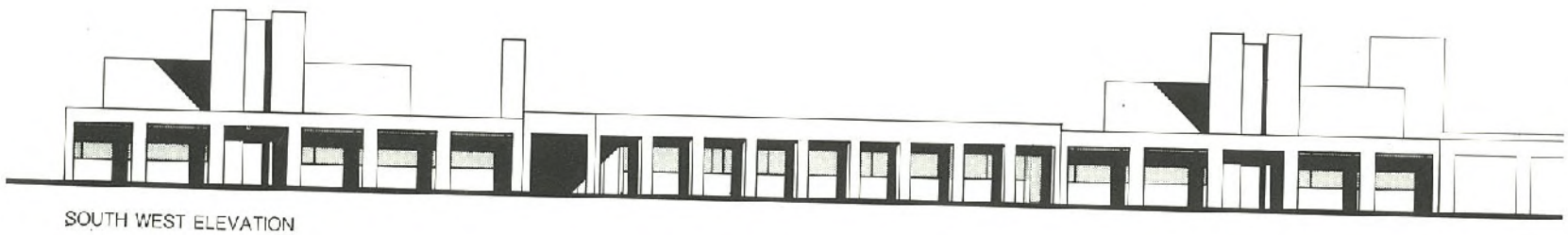
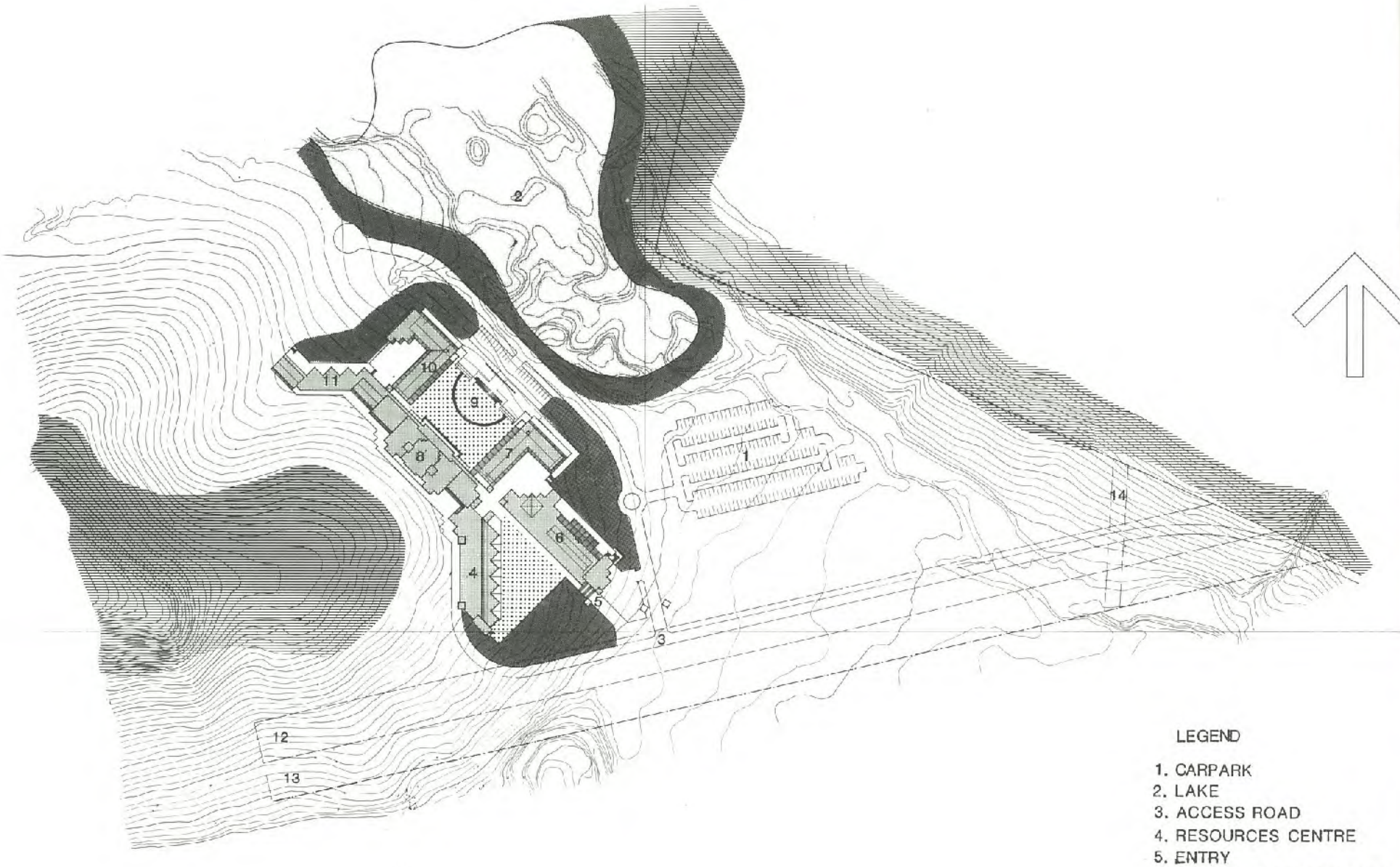


SECTION AA



SOUTH WEST ELEVATION

ELEVATIONS AND SECTION



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LANDSCAPE PLAN

LEGEND

AMENITY LANDSCAPING
GRASSED AREA
RIDGELINE PLANTING

LANDSCAPE

The overall landscape development proposals can be identified within the following precincts.

BUFFER ZONE PLANTING

Buffer zone planting is included along the major ridge lines in order to provide an improved environment which would entail:

- reduction of freeway impact
- control of slope erosion and upgrading of visual quality to horizon lines
- protection from adverse winds

CREEKLINES AND WATERSHED AREAS

Upstream creeklines and associated existing vegetation are to be boosted with new planting to aid erosion control and water runoff control. Native species indigenous to the area are to be used for ridgeline and creek planting.

FLOOD RETENTION LAKE

A major feature of the overall landscape proposals is the proposed lake opposite the Stage 1 building development.

The lake provides a number of essential and important features and benefits for the overall development.

- flood mitigation control
- improved micro-climate, providing an outdoor landscape amenity for students and staff
- educational value: outdoor teaching including amphitheatre
- irrigation reservoir: the lake water supply will provide a cheap alternative for irrigation purposes
- visual improvement: visual quality of the site will be enhanced by the inclusion of the lake as it will offer an identifiable landscape feature

ACTIVE SPORTING AREAS

Provision of a major oval and spectator mounding is included as part of the flood mitigation works as well as offering an important recreational facility for the Institute.

PEDESTRIAN AND CYCLEWAY NETWORK

Off road transport system to connect the Town Centre with the Institute and the various internal facilities.

BUILDING ENVIRONS LANDSCAPE AREAS

These include carparks, internal pathways, courtyards and open spaces surrounding the buildings. Landscaping to these areas is seen as an extension of the building architecture and also relates to user requirements and climatic constraints.

The amenity landscaping, administration and theatre areas would include hard paved surfaces and civic design elements such as formal tree plantings, seating courts, sculptural elements.

The use of open lawn areas and screen planting would be employed to develop a less formal landscape to teaching and residential areas.