

05

PROGRAMME

PROGRAMMATIC RESPONSE FOR THE SITE

THE INTENSION FOR THE SITE IS TO ESTABLISH AN AGRICULTURAL EDUCATION AND TRAINING FACILITY

The Irene Dairy Farm is an ideal location for an Agricultural Education and Training Facility within the city limits of Pretoria, situated halfway between the urban context of the city centre and the agricultural land on the outskirts of the city.

Historically, the farm has been a model farm in the Transvaal and the vision of the first owner could be revived through the establishment of an education and training facility. This intention will be accentuated through the suggested architecture on the farm, where the architecture will aid in the process of practical learning in the field of agriculture.

PRACTICAL TRAINING

To fit into the context of the site and the existing programmes on the site, the proposed intervention will house a dairy research facility to develop on the dairy production of the farm. The research facility will have laboratories that contribute to increased production on the dairy farm. Along with the dairy research, pasture research will be introduced to determine the best grazing for optimal dairy production on the farm, as well as establishing best practice for interested parties in the field of dairy production around the city.

The existing maintenance facilities will be upgraded and updated to suit the requirements of a twenty first century farm. These facilities will form part of the engineering department of the education and training facility. This section will consist of a mechanics faculty, for maintenance of the farm implements as well as maintenance of diesel and petrol engines, a metallurgy division, for learning the required skills of welding, specifically arc and gas welding, and a building craft section, for masonry building and carpentry skills training.

THEORETICAL TRAINING

The theoretical side of the education and training facility will be housed in the lecture hall, which could also accommodate practical learning by allowing enough space for animals to form part of the lectures taking place, giving a hands-on approach in terms of the species that defines the practice on the site. The theoretical component will form part of the learning experience and not be the main focus of the facility.

SUGGESTED PROGRAMME

PRACTICAL TRAINING

ENGINEERING DEPARTMENT

Mechanics:	maintenance of farming implements and engines.
Metallurgy:	learning welding skills with arc and gas welding.
Building Craft:	masonry building and carpentry training.

THEORETICAL TRAINING

Dairy Research:	research in dairy production and optimising production.
Laboratories:	samples collected from dairy research will be investigated in detail to establish optimal production on the farm.
Pasture research:	research into the grazing varieties that can contribute to optimising dairy production.
Feeding experiments:	experimenting on the outcomes of pasture research.
Species classification:	determining suitable dairy cows for the dairy herd that will contribute to optimal dairy production.

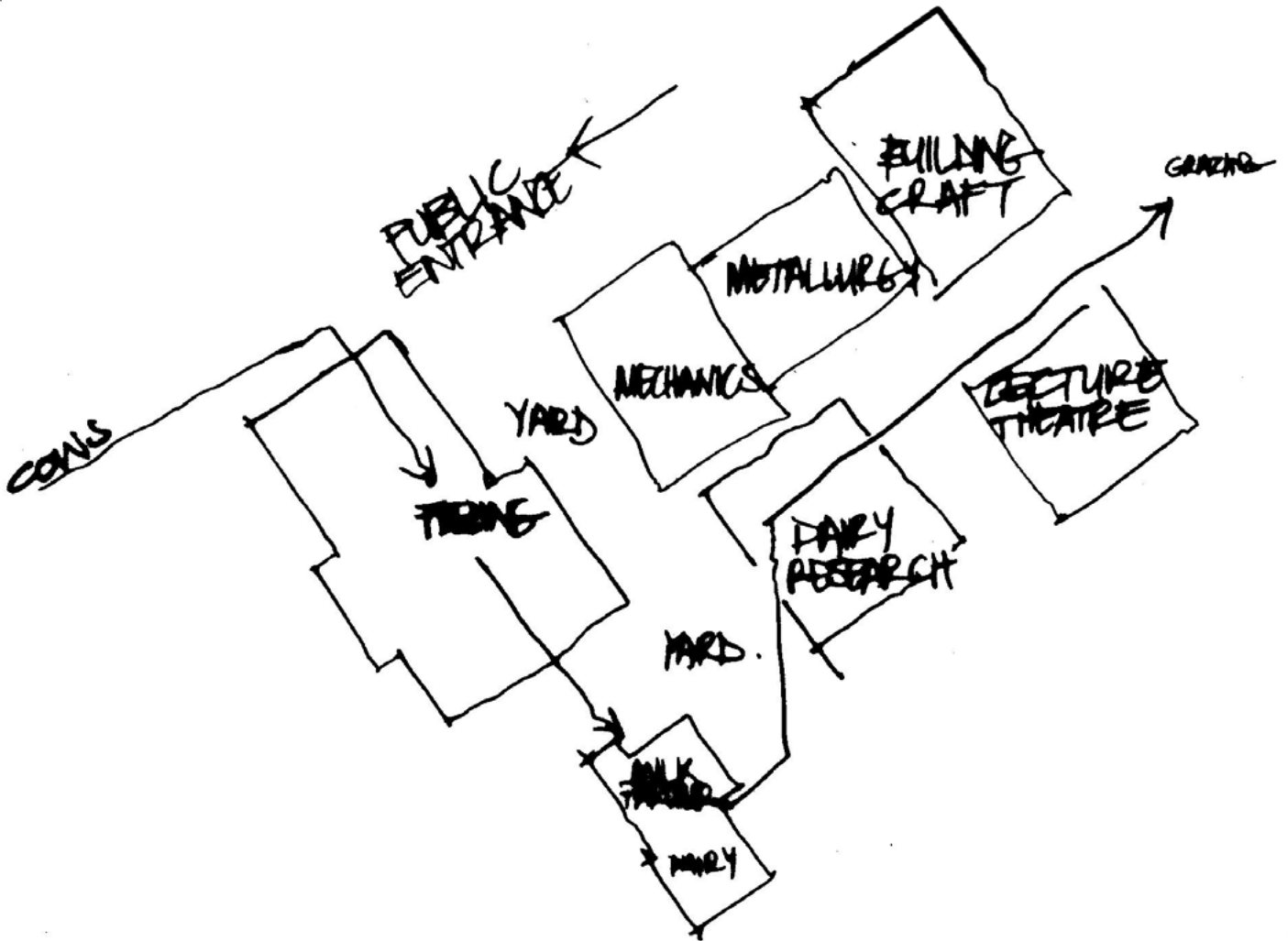


fig.5.1. DIAGRAM OF SUGGESTED PROGRAMMES ON SITE



fig.5.2. NEW PROGRAMME LIMITATION

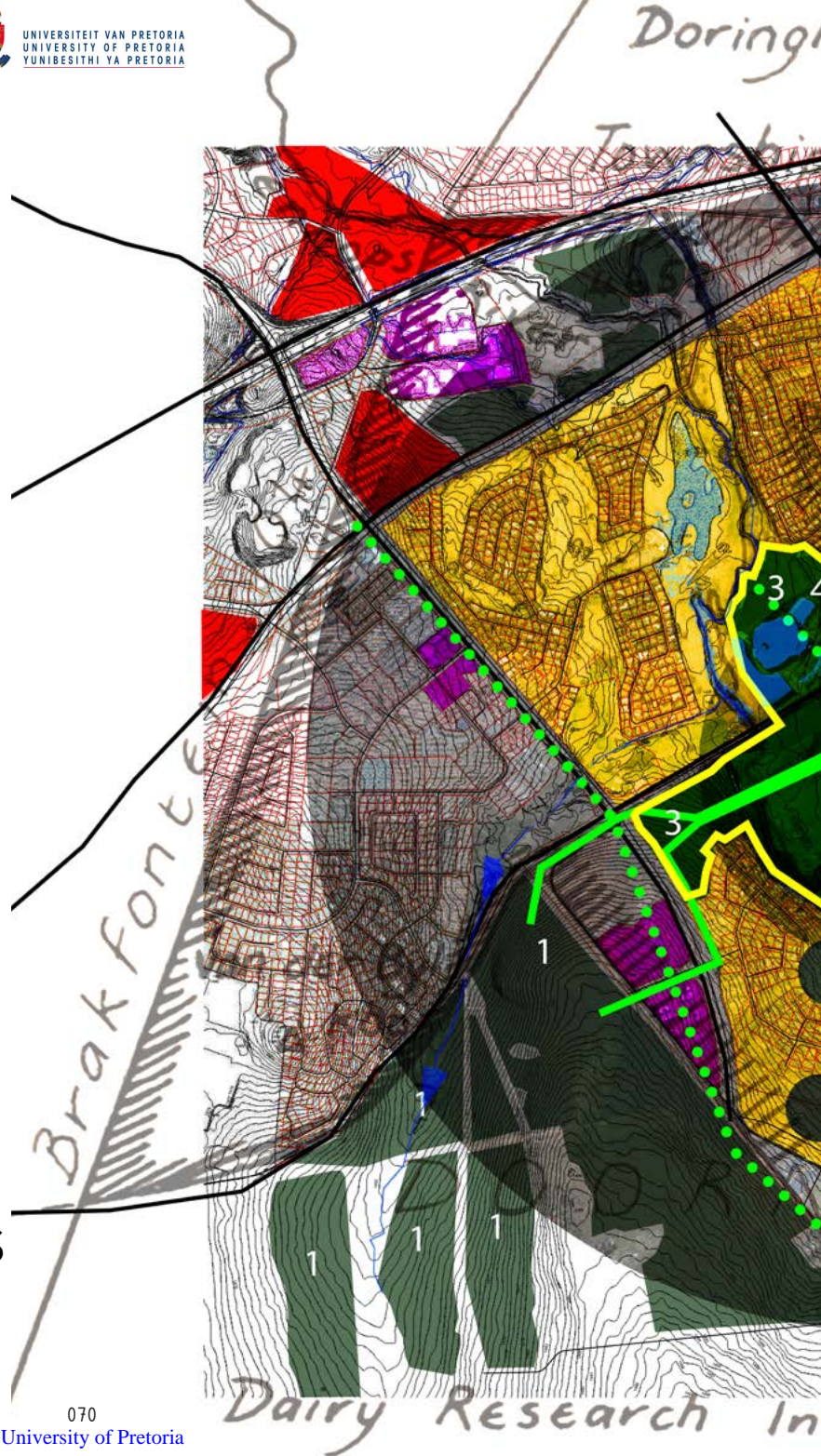


fig.5.3. URBAN VISION

1 GRAZING

2 PARK: RECREATION

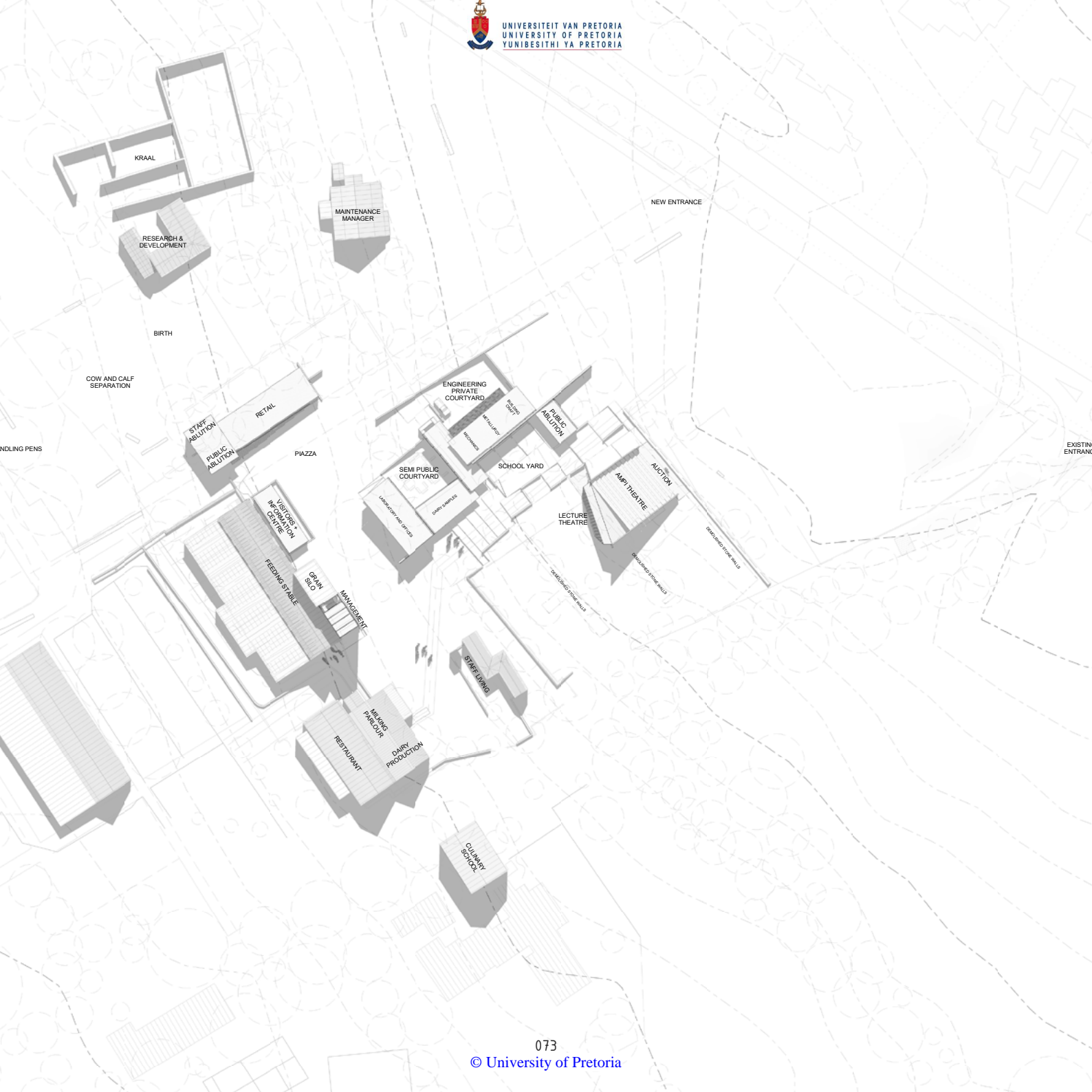
3 FOOD CULTIVATION

4 FLOODPLAINS+WETLANDS

5 PARK: REHABILITATE



fig.5.4. MASTER PLAN OF NEW PROGRAMME



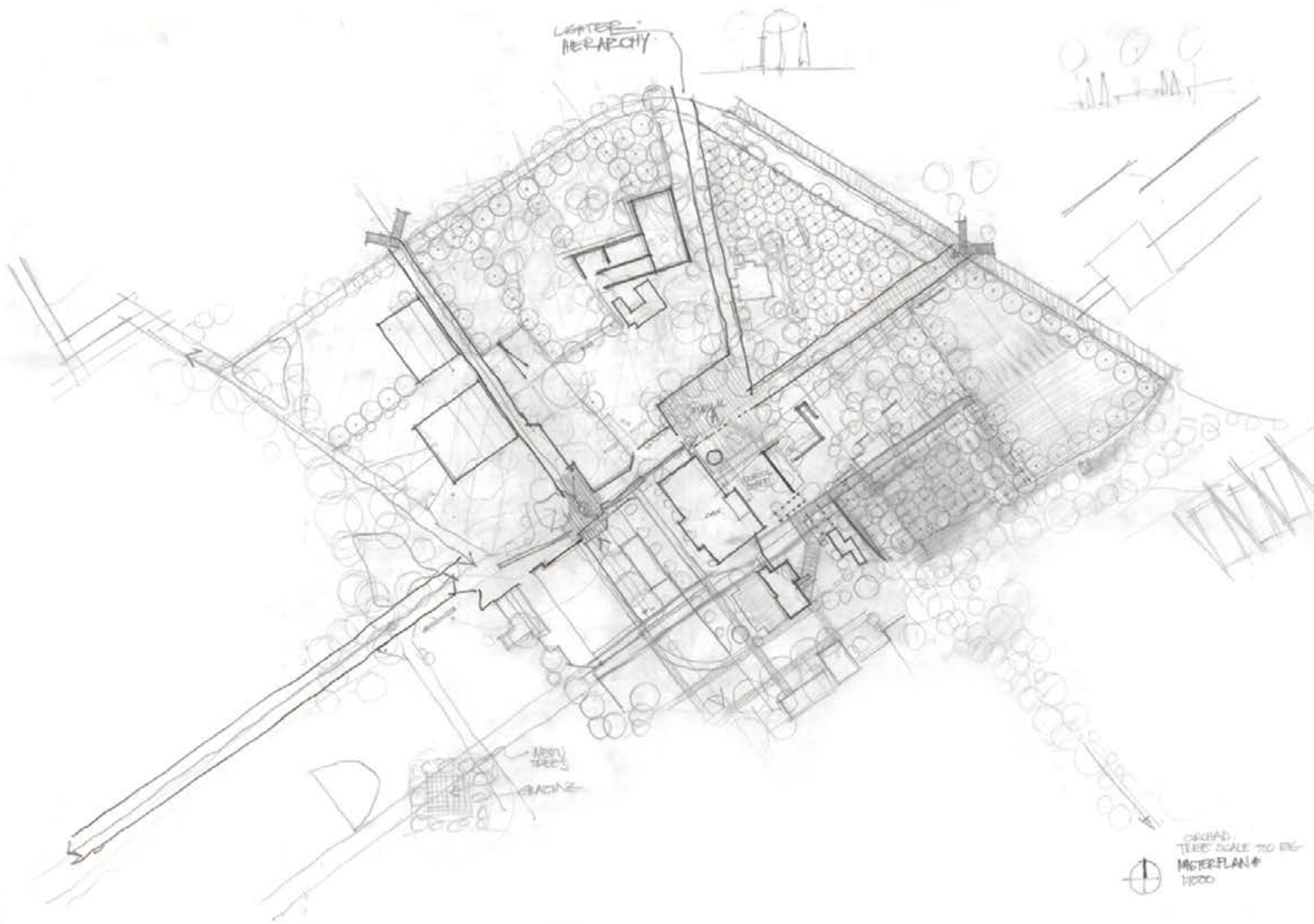


fig.5.5. **MASTER PLAN**
New fruit trees

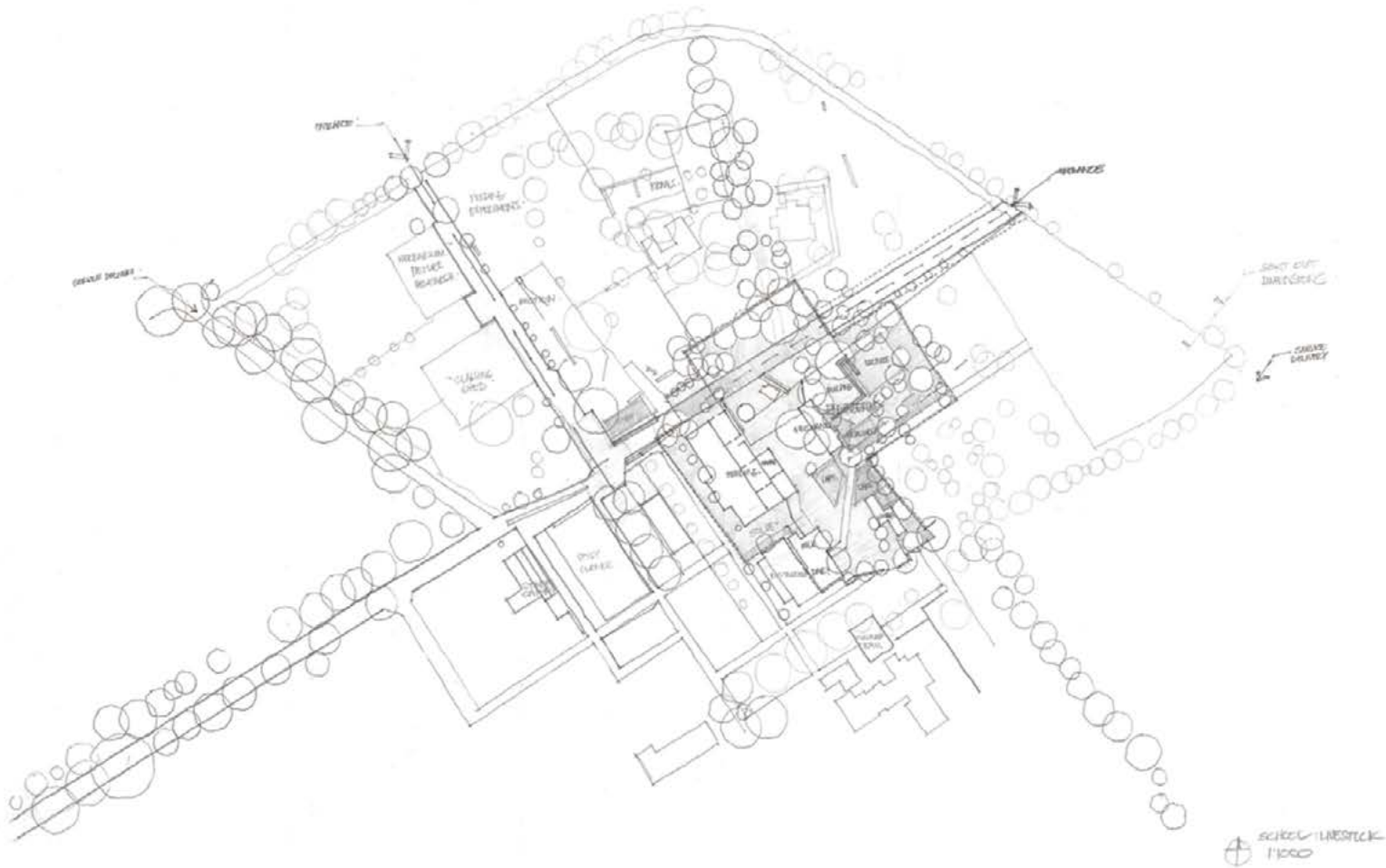


fig.5.6. MASTER PLAN OF SCHOOL PROGRAMME



fig.5.7. DEMOLISHED STRUCTURES