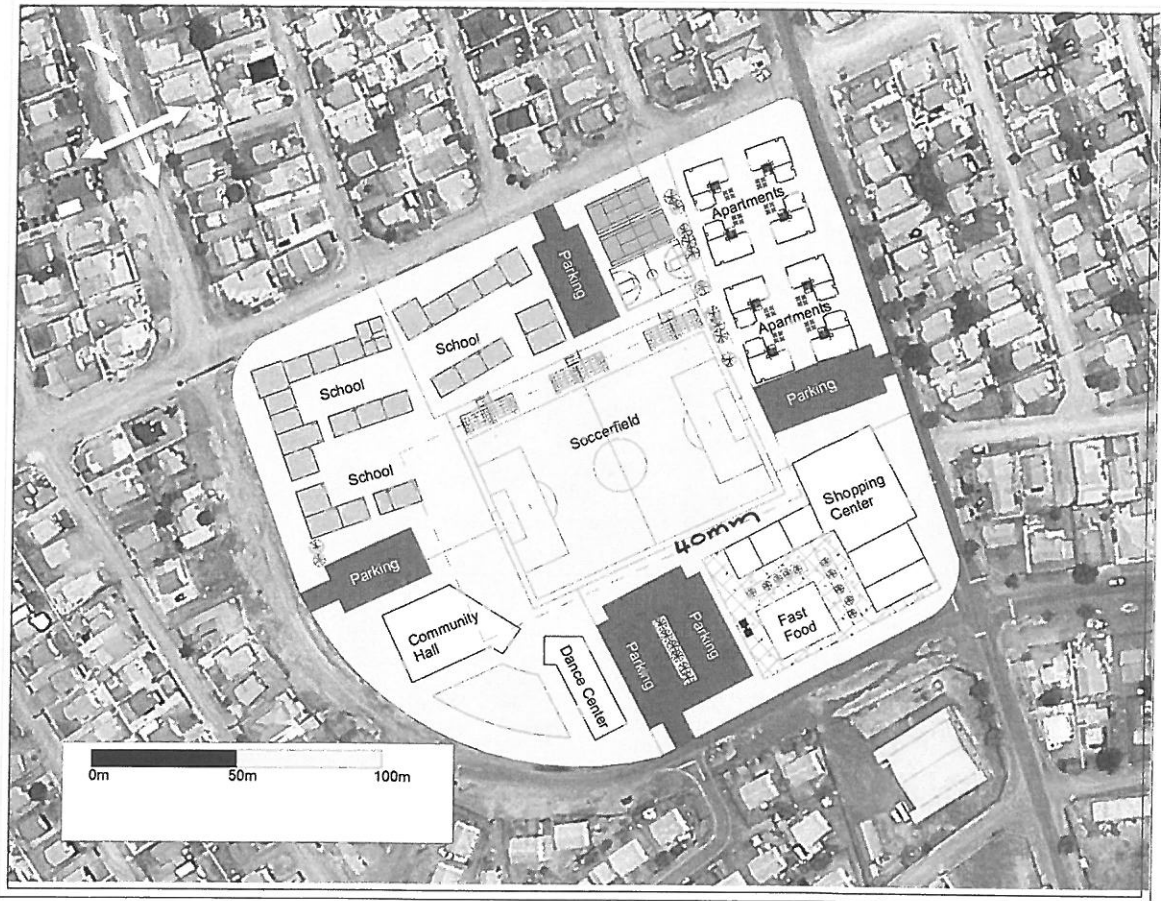


Exercise 2: Site Plan



- Study the plan and answer the following questions
- Provide directions how to get from the community hall to the apartments.
- What is the approximate distance in (a) according to the scale?
- What is the perimeter of the soccer field?
- What is the area of the soccer field?
- What is the area of the circle in the soccer field?
- How many apartment buildings are there?
- Name all the facilities of this school.
- Give the compass direction of the Fast Food from the school.
- Calculate the hectares of this site plan.

Exercise 2:

Date: _____

a) You walk straight along the soccerfield. Turn left
Pass the parkinglot on your righthandside. Find
the apartments on your right handside.

b) $38\text{mm} \div 100\text{m}$

$$\begin{array}{r} 38\text{mm} \div 100\,000\text{mm} \\ 1 \div 100\,000 \div 38 \end{array}$$

$$1 \div 2631,57$$

$$\approx 1 \div 3000$$

measured $40\text{mm} + 30\text{mm} = 70\text{mm}$

$$70 \times 3000 = 210000\text{mm} = 210\text{m}$$

c) $2(35\text{mm}) + 2(22\text{mm}) = 70 + 44 = 114\text{mm}$

$$114 \times 3000 = 342000\text{mm} = 342\text{m}.$$

d) $35\text{mm} \times 3000 = 105000\text{mm}$ length.

$22\text{mm} \times 3000 = 66000\text{mm}$ breadth.

Area: $105\text{m} \times 66\text{m} = 6930\text{m}^2$

e) Diameter: 7mm scale: $7 \times 3000 = 21000\text{mm}$

$$= 21\text{m} \therefore r = 10,5.$$

Area of circle: $\pi r^2 = 3,142 \times 10,5^2 = 32,991\text{m}^2.$

f) 8 buildings.

g) Community Hall, Dance Centre, Fast Food
Shopping center; Soccerfield, Netballfield
Apartments and Parkinglots.

h) South East.

i) length: 83mm Breadth 72mm .

Scale: $\times 3000$

$$= 249000\text{mm}$$

$$= 249\text{m}$$

Area: 53784m^2

$$\pm \approx 5,38 \text{ hectares}$$

scale: $\times 3000$

$$= 216000\text{mm}$$

$$= 216\text{m}$$

1 hectare: 10000m^2