

**3.6.4. THE**  
**CONSTRUCTION**  
**INDUSTRY**  
**CIVIL DRAWINGS**

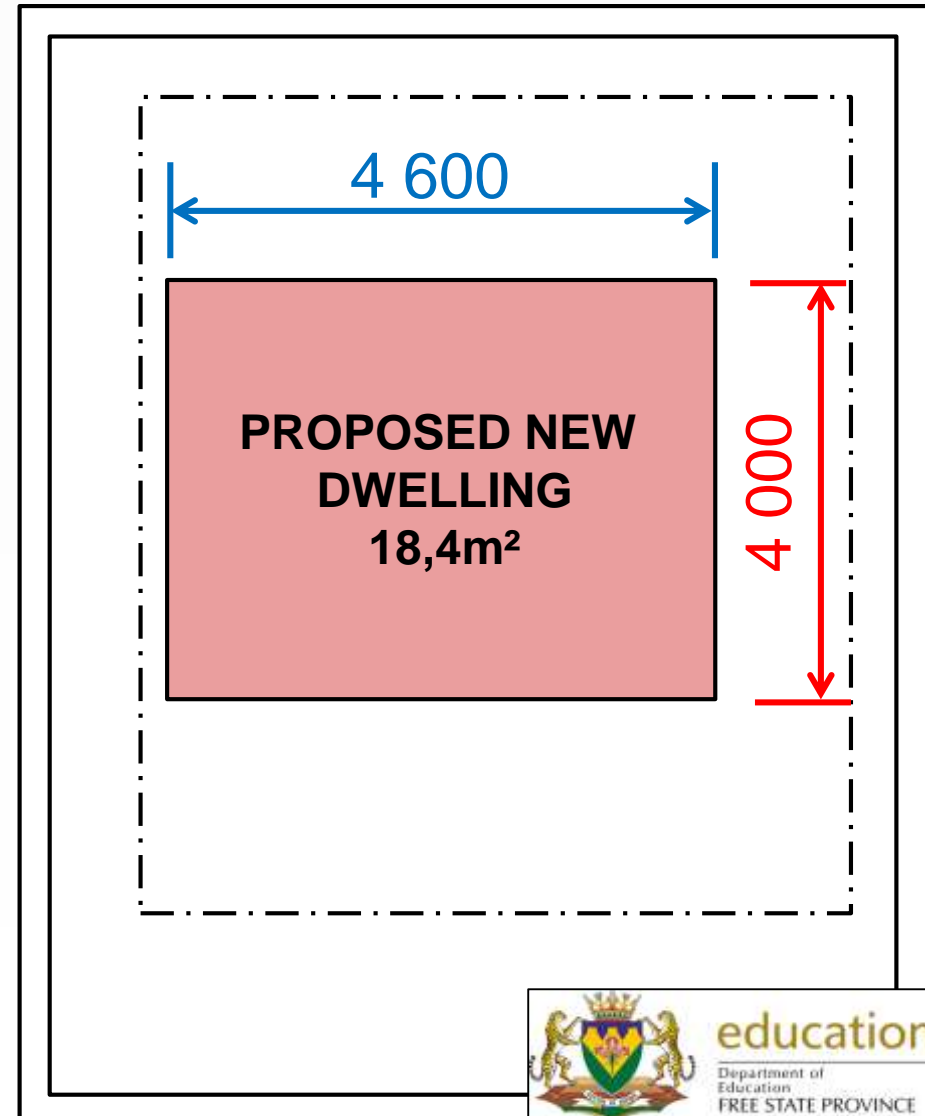
# PRESCRIBED CONTENT FOR GRADE 10

- Annotations, labels, dimensioning and scales.
- Relevant abbreviations and conventions.
- Hatching detail.
- **Calculating the floor area of a house.**
- Calculating the perimeter of a house.
- The floor plan showing the windows and doors.
- Basic single line elevations.
- Sectional elevations showing the detail from the foundation to the concrete slab.

# CALCULATION OF THE FLOOR AREA

- Floor area:

$$= (L \times B)$$



# CALCULATION OF THE FLOOR AREA

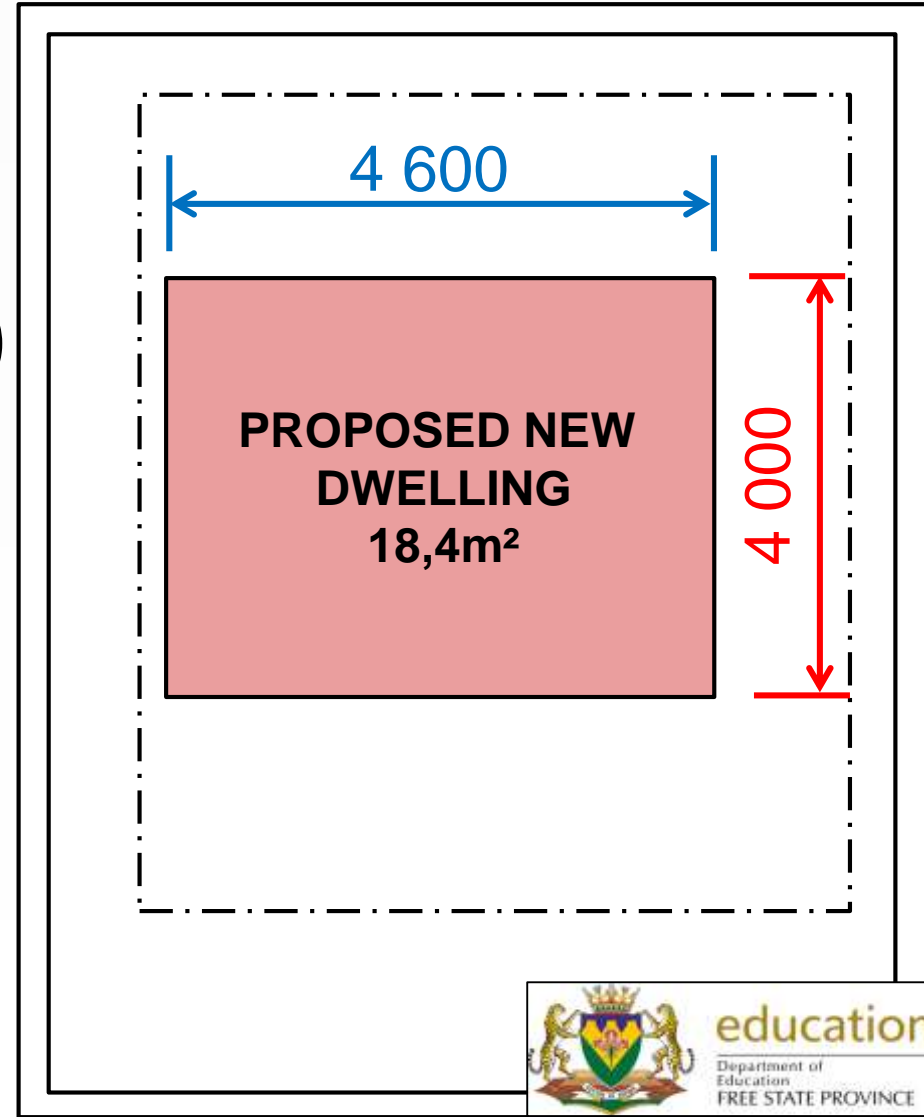
■ Floor area:

$$= (L \times B)$$

$$= (4\,600\text{ mm}) \times (4\,000\text{ mm})$$

$$= (4,6\text{ m}) \times (4\text{ m})$$

$$= 18,4\text{m}^2$$



# CALCULATION OF THE FLOOR AREA

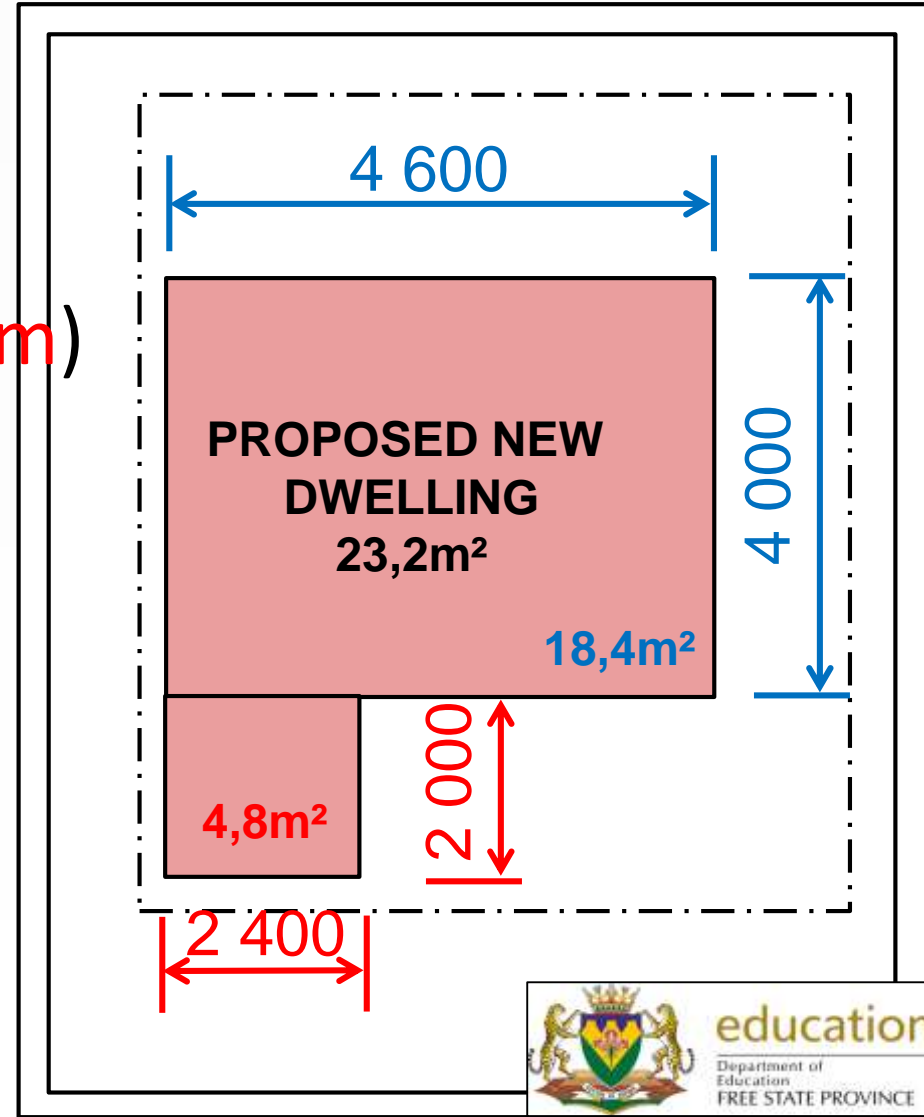
■ Floor area:

$$= (L \times B) + (L \times B)$$

$$= (4,6 \text{ m} \times 4 \text{ m}) + (2 \text{ m} \times 2,4 \text{ m})$$

$$= (18,4 \text{ m}^2) + (4,8 \text{ m}^2)$$

$$= 23,2 \text{ m}^2$$



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# CALCULATION OF THE PERIMETER

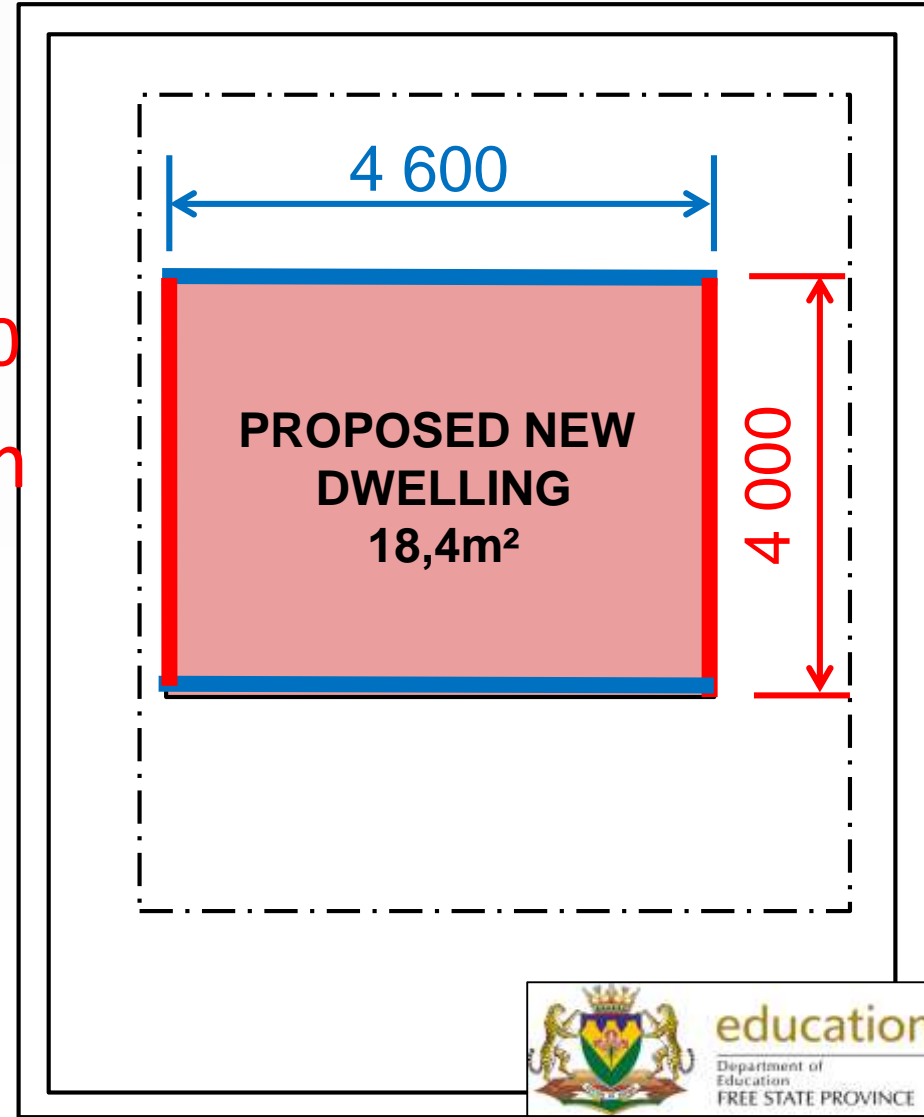
■ Perimeter:

$$= L + B + L + B$$

$$= 4\,600 + 4\,000 + 4\,600 + 4\,000$$

$$= 4,6\text{ m} + 4\text{ m} + 4,6\text{ m} + 4\text{ m}$$

$$= 17,2\text{ m}$$



# CALCULATION OF THE PERIMETER

■ Perimeter:

$$= L + B + L + B$$

$$= 4,6 + 4 + 2,2 + 2 + 2,4 + 6$$

$$= 21,2\text{m}$$

