









KEY LEGEND

	EXISTING BUILDING
	NEW PROPOSED
	DEMOLISH
	C1: DYSFUNCTIONAL - HEAVY REPAIRS & RENOVATIONS
	C2: POOR - HEAVY ROUTINE REPAIRS & RENOVATIONS
	C3: FAIR - ROUTINE REPAIRS & RENOVATIONS
	C4: GOOD - LIGHT ROUTINE REPAIRS & RENOVATIONS
	C5: OPTIMAL - LIGHT REPAIRS & RENOVATIONS

LOCALITY PLAN & WIND DIRECTION



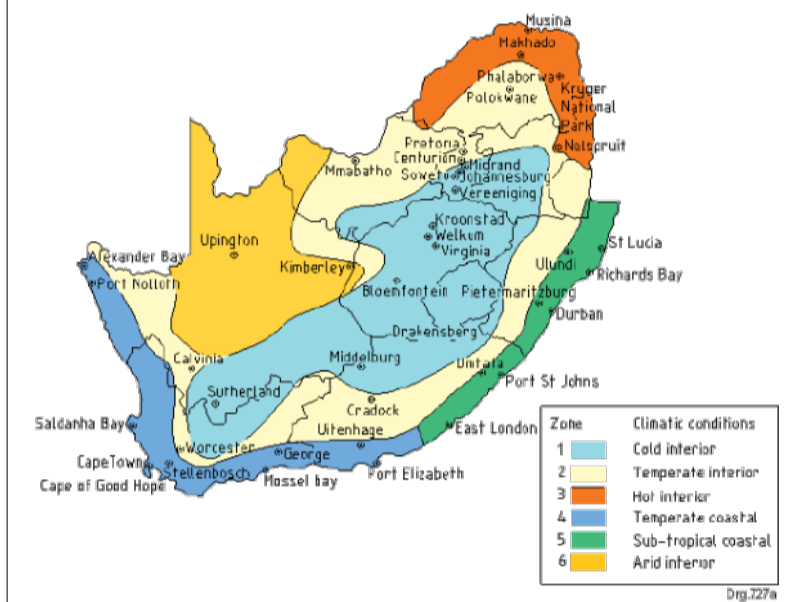
REQUIREMENTS FOR PART XA OF THE NATIONAL BUILDING REGULATIONS

SANS10400-XA:2011 4.2

The functional regulations contained in part XA of the National Building Regulations shall be deemed to be satisfied where in any building of occupancy classified in terms of Regulations A20 as A1, A2, A3, A4, C1, C2, E1, E2, E3, E4, F1, F2, G1, H1, H2, H3, H4 and H5:

1. The orientation and shading are in accordance with the requirements of SANS 204
2. External walls are in accordance with the requirements of 4.4.3 of SANS 10400-XA:2011
3. Fenestration is in accordance with the requirements of 4.4.4 of SANS 10400-XA:2011
4. Roof assembly construction is in accordance with the requirements of 4.4.5 of SANS 10400-XA:2011
5. If in-slab heating is installed it is in accordance with the requirements of 4.4.2 of SANS 10400-XA:2011

BUILDING DETAILS



CLIMATIC ZONES OF SOUTH AFRICA

Energy measures will vary from location to location. The deemed-to-satisfy provisions are based on climate zones, including dry bulb temperatures, thermal neutrality, humidity and southern coastal condensation risk. The climatic zone map has six climatic zones as follows:

Climate Zone	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
Description	Cold Interior	Temperate Interior	Hot Interior	Temperate Coastal	Semi-humid Coastal	Arid Interior
Climate	Warm summer Cold winter	Warm summer Cool winter	Hot dry summer Temperate winter	Warm humid summer Cold wet winter	High humidity summer Warm winter	Hot dry summer Moderate winter
Average January maximum temperature ¹	30.7	30.7	31.9	26.1	27.8	35.5
Average July maximum temperature ²	7.8	12.2	17.4	12.2	16.6	12.5
Average July minimum temperature ³	-1.8	3.6	10.2	7.0	10.5	4.1

Reference: D.Holm, H.M.Harvey, C.J. Paine, A.S. van Niekirk (Temperatures obtained from Nova Project - classified information).

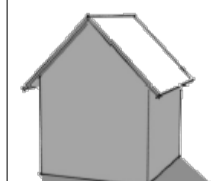
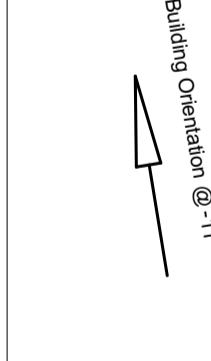
ORIENTATION AND SHADING

② ORIENTATION

In accordance with the requirements of
SANS204:2011-4.2
SANS 204 :2011 4 .1

Site layouts shall enable buildings to be
for optimal orientation given in figures
SANS 204 :2011 4 .2

Buildings should be orientated in accordance with figures B1 to B6 approximately true north. If buildings cannot be thus orientated, they shall be orientated to achieve the lowest net energy use.



(b) SHADING

In accordance with the requirements of SANS 204:2011-4.3.5
SANS 204 :2011 4 .5.1

Where shading is used, the building shall

(a) have a permanent feature such as veranda, balcony, fixed canopy, eaves or shade hood, which

- (1) extends horizontally on both sides of the glazing for the same projection distance P
- (2) provides the equivalent shading with a reveal or other shading element

(b) have external shading device, such as a shutter, blind, vertical or horizontal building screen with blades, battens or slats, which

- (1) is capable of restricting at least 80% of summer solar radiation, and
- (2) if adjustable, is readily operated either manually, mechanically or electronically by the building occupants.

NOTE Window on east & west facade to be shaded according to SANS204:2011-4.3.5 For shading details see fenestration schedule, plans, sections & elevations.

LOCAL AUTHORITY STAMPS

REV	DATE	DESCRIPTION

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CLIENT

DBSA
DEVELOPMENT BANK OF SOUTHERN AFRICA

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ARCHITECT SIGNATURE

OWNER SIGNATURE _____

PROJECT TITLE

**KZN DOE INFRASTRUCTURE FEVELOPMENT
AND MAINTENANCE PROGRAMME**

OF VARIOUS SCHOOLS IN THE KING CETSHWAYO DISTRICT
MUNICIPALITY FOR THE DEVELOPMENT BANK OF SOUTHERN AFRICA

DRAWING TITLE

SITE DEVELOPMENT PLAN:
BONAMUVA PRIMARY SCHOOL

DATE 02-12-2022	SCALE 1:500 / A1
DRAWN BY S.M / N.B.N	CHECKED BY K.T.M

ISSUED FOR INFORMATION

P= Preliminary DP= Deviation Plan		SK= Sketch Design CD= Construction Drawing	SP= Submission Plans AB= As Built	
PROJECT NO	STATUS	DRAWING NO	REVISION	
RFP1162018-BON	P	A001	0	