



2018 / 2019

REVIEWED SPATIAL DEVELOPMENT FRAMEWORK FOR THE MOQHAKA LOCAL MUNICIPALITY
IN TERMS OF SECTION 34 OF THE MUNICIPAL SYSTEMS ACT, 2000 (ACT 32 OF 2000),
SECTION 20(3)(A) OF THE SPATIAL PLANNING AND LAND USE MANAGEMENT ACT, ACT 16 OF 2013 AND
SECTION 4(2) OF THE MOQHAKA LOCAL MUNICIPALITY LAND USE PLANNING BY-LAWS, NOVEMBER 2015

# **JANUARY 2018**

Prepared by the IDP Steering Committee of the Moqhaka Local Municipality

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# **KROONSTAD / MAOKENG / BRENTPARK URBAN AREA .7**

#### A: CORE

# STATUS QUO

The Vals River, several attributes and significant wetland areas, drain through the urban area. A series of weirs in the Vals River (dams include the Serfontein, Barend Wessels and Strydom Dams) ensure raw water provision to the urban are. The Bloemhoek Dam (a storage dam) supports raw water provision, as water from the Vals River is pumped thereto to ensure potable water during periods of low rainfall.

#### **FUTURE SPATIAL FRAMEWORK**

Optimal development and utilisation of the Vals River riparian and water sources (Bloemhoek Dam), not compromising the outstanding universal value thereof and unduly impairing the safe, undisturbed and quiet enjoyment of the area, must be considered.

Significant surface water features (several dams in the Vals River and Bloemhoek Dam) as well as its tributaries must be regarded as sensitive to activities that might further deteriorate their quality.

#### **B: BUFFER**

#### STATUS QUO

The Vals River, its tributaries and wetland areas of significance, drain form east to west through urban area. Several dams (manly as raw water sources are constructed in the Vals River and adjacent thereto (Bloemhoek Dam).

The riparian to these areas are deemed of extreme environmental significance and controlled development and limiting pollution thereof, are considered as substantial priorities.

#### **FUTURE SPATIAL FRAMEWORK**

- The Vals River, its tributaries, constructed dams and associated riparian areas thereto, are paramount natural resources and should be protected to minimise pollution thereof.
- The areas within 32 m and 100 m of water courses, as defined in the National Water Act, and within 500 m of wetlands should be regarded as sensitive and not earmarked for development.
- **S11:** Further upgrading and development of the "Noord Oewer" park is considered as a priority. Portions thereof are at present utilised for the purpose of a "wildlife sanctuary".
- **S12:** A prominent vlei area, stretching between the Seeisoville and Marabastad precincts was partially rehabilitated. Although partial

STATUS QUO	FUTURE SPATIAL FRAMEWORK
	rehabilitation efforts occurred, completion thereof is essential;
	especially considering flooding and the safety of pedestrians in the
	area.
	• <b>S15</b> : the implementation of appropriate development control at the
	Serfontein Dam water ski resort, amongst other allowing for access to
	the general public, must timely be addressed.
	• S 7, 9, 11, 14, 15, 16: Proper management of the riparian must be
	implemented to intercept misuse and pollution of the area, being a
	principal source of raw water to the urban area.
	■ <b>G8:</b> Two illegal sand winning mining terrains subsequently exist on the
	Vals River riparian where sand was mined without the necessary
	permits and need to be rehabilitated as a matter of urgency; especially
	in view of the unsafe nature of the sites.

# C: AGRICULTURAL AREAS

STATUS QUO	FUTURE SPATIAL FRAMEWORK
Urban Agriculture	
<b>F5 &amp; F6:</b> Substantial land parcels north of Kroonstad, being the hinterland to the urban area, are made available to tendering farmers for cultivation purposes and several small holdings ( <b>F5</b> ) rented to community members, securing income for the Municipality.	have been included as smallholdings within the 'Urban Fringe', in the
Various formal smallholding and a vast number of small farms, occur adjacent the urban area (mostly to the southeast) namely:  The Meadows (28 smallholdings),    Kraalkop (33 smallholdings),    La Porte Vase (31	<ul> <li>Land use control measures, as pertained in the LUS will be applicable to all these premises to ensure the sustainable utilisation thereof.</li> <li>Illegal and undesired residential developments are occurring on smallholdings and must be prohibited as a matter of urgency.</li> </ul>

STATUS QUO	FUTURE SPATIAL FRAMEWORK
smallholdings), smallholdings)	
<ul> <li>Riverside (14 smallholdings),</li> <li>Buitenzorg (6 smallholdings).</li> </ul>	
Commonage	
A large number of inhabitants in Maokeng and Brentpark require	■ <b>F4:</b> The area to the west of Maokeng has been obtained by the Council
commonage land for the purposes of small-scale farming or communal	for the purpose of small-scale farming and communal grazing;
grazing. The Department of Land Affairs, in collaboration with the	principally for the inhabitants of Maokeng.
Department of Agriculture, granted funds for the acquisition of:	■ The sheer extent of the commonage land necessitates a proper
<ul> <li>Subdivision 1 of the Farm Bospoort 558,</li> </ul>	investigation to determine whether the land could be utilised more
<ul> <li>Subdivision 1 of the Farm Winningdale 200,</li> </ul>	efficiently and to the benefit of the larger community.
■ The Remainder of the Farm Riverdale 289 to the west of Maokeng.	Stray cattle plague almost all residential precincts and the
	implementation of a pound system, as a consequence, must be
	investigated, possibly with the assistance of relevant intuitions such as
	the SPCA / Veterinarian Services.

# **Agricultural Land Identified for Urban Development or Smallholdings**

Land parcels indicted in the table below are earmarked for inclusion within the Urban Fringe pertaining to this SDF and the LUS to ensure management thereof by the Municipality, according to land use control measures, also pertaining to the LUS. Exclusion of these land parcels from agricultural land is therefore evident

is therefore evident.	
■ The Farm Bloemspruit 975	Subdivision 1 and Remainder of the Farm De Kroon 406
■ The Farm Marksman 1024	<ul><li>Subdivision 1 and Remainder of the Farm The Peak 2127</li></ul>
■ The Farm Retreat 1770	■ The Farm Buitenzorg 1901
■ The Farm Florida 868	■ The Farm Skibo 504
■ The Farm Morris Rest 642	<ul> <li>Subdivision 1 and Remainder of the Farm Buitenzorg 930</li> </ul>
<ul> <li>Subdivision 1 and Remainder of the Farm The Rest 1193</li> </ul>	■ The Farm Berrie's Rust 1304
<ul> <li>Subdivision 1 and Remainder of the Farm Bethel 657</li> </ul>	■ The Farm Jordaans Hoek 339
■ The Farm Inverness 1628	■ The Farm Boville 373

- The Farm Excelsior 1172
- The Farm Mazelbroch 1578
- Subdivision 1 and Remainder of the Farm Waterloo 1315
- The Farm Versailles 1632
- Subdivision 1 to 5 and Remainder of the Farm La Porte Vase 77
- The Farm Beverley 1894
- The Farm Lahai-Roi 2126
- The Farm Stylte 2222
- Subdivision 1 and Remainder of the Farm Turin 1912
- Subdivision 1 and Remainder of the Farm Petrus Heuvel 1862
- Remainder of the Farm De Kroon 406
- Subdivision 2 to 5 and Remainder of the Farm Lusthof 707.
- Subdivision 1 of the Farm Half-Kroonsdrift 827
- Remainder of the Farm Traffic 2162
- Remainder of the Farm Ballast Gat 964
- The Farm Steenwerp 1840

- The Farm Geluk 986
- Subdivision 1 and the Remainder of the Farm The Rapids 1950
- The Farm East Mead 2323.
- The Farm De Hoop 2276
- The Farm Welverdiend 2275.
- Subdivision 1 of the Farm Meadowsweet 1616
- Subdivision 1 to 3 and Remainder of the Farm Bloemhoek 1212
- The Farm Ricardum 215
- The Farm The Knoll 1782
- The Farm Berries Rust 340.
- Subdivision 1 to 6 of the Farm Buitenzorg 553
- The Farm Driehoek 1593.
- Subdivision 1 and Remainder of the Farm The Rest 1193
- Remainder of the Farm Lusthof 707
- The Farm Steenwerp 2150

#### D: URBAN RELATED

# **Urban Fringe**

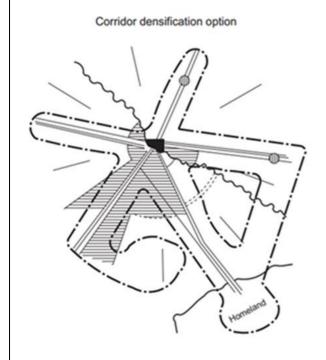
The "urban fringe" represents the outer limits or boundary for urban development. The proposed urban fringe should not be considered as an exact line but as a conceptual boundary to prevent further urban extension. The principle for identifying an urban fringe is primarily to discourage continuous urban sprawl and to promote integration and more compact towns and urban areas.

Substantial expansion of the Urban Fringe is not considered for the urban area; neither for short, nor for long term development purposes. The latter is a consequence of proactive planning by the Municipality and the timely attainment of land for long-term urban extension. Expansion of the Urban Fringe considered relating to several small farms and existing smallholding (F1, 2 & 3) surrounding the urban area, These land parcels have been included as smallholdings within the 'Urban Fringe', similarly in the prepared Moqhaka Land Use Scheme, now in the process of being approved. Land

use control measures, as pertained in the LUS will be applicable to all these premises to ensure the sustainable utilisation thereof. Illegal and undesired residential developments are occurring on smallholdings and must be prohibited as a matter of urgency.

# **Densification and Corridor Development**

Incessant attempts to address infill planning of land between the residential precincts of Maokeng, Brentpark and Kroonstad resulted in urban area being fairly integrated with limited opportunities for infill planning. Restricted land parcels, mostly privately owned, may be available for this purpose. In addressing a more sustainable urban form, densification; especially through higher residential densities and mixed used developments, associated with significant transportation arterials, remains a viable alternative in the larger urban area.



The tendency towards continuing decentralisation of workplace locations is complicating the creation of "compact cities". Although compaction may be achievable as a means of increasing density, it is suggested that the predominant pattern in South Africa should be the "corridor city". Strategies need to be identified to attract decentralising activities toward existing public transport corridors (CSIR, 2000: Human Settlement Planning and Design, "Red Book" also the source of the ensuing figure: "corridor densification option").

Rapid neighbourhood expansion of the Maokeng precinct the past 15 years, with resultant urban sprawl westward, must be intercepted through the implementation of an urban fringe up to the gravel road to Bothaville (S183). In attaining further densification, through the identification of corridor bands, the following streets have been identified.

- The formal Smaldeel Road, stretching from the Viljoenskroon road, through Maokeng,
- Piet de Vries Avenue, extending through Marabastad,
- A main access road into Maokeng, from Piet de Vries traffic circle into Seeisoville,
- The link road between Maokeng and Brentpark,
- 11<sup>th</sup> Avenue via the industrial area to Brentpark.

The northern trajectory of Noordweg is naturally developing as a development corridor, as it serves as a main access road from Viljoenskroon and Parys into the Kroonstad CBD, and due to the limited expansion possibilities within the existing CBD. The corridor is earmarked for business related

development and probably mixed and higher density residential options. The CBD is similarly extending in a linear manner adjacent Reitz Street, as the main access road into Kroonstad, from the N1 National Road.

Table 13
Summary of Current Housing Tendencies: Kroonstad / Maokeng / Brentpark Urban Area

(Source: Local Municipality, 2017)

	<u>ERVEN</u>			ERF & LAND
DECIDENTIAL ADEA	RESIDENTIAL ERVEN	RESIDENTIAL ERVEN	<u>TOTAL</u>	<u>REQUIREMENTS</u>
RESIDENTIAL AREA	<u>OCCUPIED</u>	<u>UNOCCUPIED</u>	RESIDENTIAL ERVEN	(Determined by Council)
Kroonstad	3 890	941	4 831	-
Maokeng	16166	4 969	21 135	-
Marabastad	1284		1 284	-
Brentpark	883	314	1 197	-
SUBTOTAL	22 223	6 224	28 447	-

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	STATUS QUO		FUTURE SPATIAL FRAMEV	VORK
Residential				
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## Maokeng

Extensive development occurred specifically in Maokeng and nearly 10 000 new residential erven were developed since 1990. Recent precincts (i) between Maokeng and Brentpark, (ii) on land surrounding the Boitumelo Hospital up to the Viljoenskroon Road and (iii) between the Viljoenskroon Road and the exiting Maokeng precinct, are all unoccupied.

The Marabastad neighbourhood was recently formalised, re-planned through applying re-blocking techniques and 1 284 residential sites (some of which were already occupied), were established.

- R1: Further long-term development of medium density residential erven adjacent Brentpark; although physical restrictions may impact on the future urban layout.
- The proposed extension will necessitate the relocation of the existing Landfill Site (refer to D, Landfill Sites in an ensuing section).
- **R2:** Long-term high density residential extension of the Maokeng precinct towards the Viljoenskroon Road.
- R3: (Infill Planning): Erven 14242 & 10790, initially intended for a power line servitude, are available for limited infill planning; especially as the entire servitude is not required for future electricity provision.

# **Brentpark**

**R1 (Infill Planning):** Development of Brentpark gradually increased the past few years, but not as rapid as in Maokeng. A need was expressed by the specific community to provide additional residential erven in Brentpark and land between Maokeng and Brentpark was planned for this purposes, also integrating the two communities.

#### Kroonstad

**R6, 7, 8 & 9:** Several erven in the most recent extensions of Kroonstad, Jordania and Elandia, are unoccupied (approximately 940 erven). The erven are not provided with infrastructure services.

#### **Informal Settlements**

Unofficial housing settlements on council owned smallholdings are causing alarming concern, since current tenants are illegally and against contract conditions, establishing undesired residential developments.

These settlements will cause particular difficulties, since these areas are earmarked for medium and long-term residential extension of Maokeng. It follows naturally that health and building regulations are not adhered to in respect of these developments.

Apart from the above, there are neither informal settlements, nor areas identified for *in situ* upgrading in the larger urban area. A phenomenon ascribed to the continuous efforts by the Municipality to address the housing needs of the community. Although not all serviced, the

#### FUTURE SPATIAL FRAMEWORK

- ☑: The most recent extension of Maokeng, earmarked several and well located erven, all on major collector roads, for the provision of inclusionary housing (erven 31415, 31255, 32063, 32675, 33609, 33696)
- R4 & ☑ (Infill Planning): The small farm, Morgenzon 2337, initially required by the Roads Directorate, has, on their request, been transferred to the Municipality and is available for infill planning. Considering the ideal location of the property, a mixed use development and for inclusionary housing, with restricted commercial opportunities should ideally be established.
- R5: A settlement, generally referred to as the Naledi Trust area, occurred on the Farm Steenwerp 2150. The future formalisation thereof is deemed important. Limited extension of the settlement is possible.
- R6, 7 & 8 (Densification): The low-density residential areas of Kroonstad, Elandia (R6), Heuwelsig (R7) and Tuinhof (R8), located to the north-east of the existing urban area, comprise adequate but unserviced erven for long-term extension.
- ☑: Infill planning: especially related to higher density residential developed is deemed feasible the vast premise of the former convent premises (erf 7521) in the Jordania precinct. Although privately owned, subdivision thereof will offer ideal prospects for the optimal utilisation of "lost urban space".
- **R9** (Densification): Long-term, low- and medium-density residential extension to the north of Heuwelsig and Tuinhof neighbourhoods.

Municipality comprises a substantial stock in residential erven to address future housing demands.

DRDLR Development Potential in Urban Settlements Report (2014) assessment:

- Urban Growth Potential High
- Economic Potential High

#### FUTURE SPATIAL FRAMEWORK

- These areas are ideal for re-planning in offering more dense residential neighbourhoods, comprising smaller erven and a more diverse mix in housing typologies; also providing options for inclusionary housing.
- R10 (Densification): Open land adjacent Van der Lingen Street and the Kroonpark Holiday Resort may be considered for high cost residential developments, ideally located for densification purposes.
- **R11/S7 (Infill):** Possibilities exist to redesign the existing golf course and, in doing so, provide a high cost residential estate, including an open portion of council land to the south east of the golf course.
- R12 (Low Density Infill): Provision for high cost residential extension, although privately owned land, could be considered to the south of the existing Suidrand precinct. Development in the area will be subject to detail bulk services investigations.
- **I3:** Although not finalised, land located in the industrial area, currently owned by Transnet, was granted to the municipality and development proposals were made by the Housing Development Agency, who oversees development of the specific area.
- Δ4/I2: Incessant residential development towards 11<sup>th</sup> Avenue (main access to Brentpark/ *Kroondustria*) may result in the remaining industrial erven (6298 6303) continuously being converted into mixed use development i.e. service industrial development, commercial and high density residential developments.

#### **Central Business District**

#### Kroonstad

Kroonstad comprises a well-defined CBD consisting of 234 businesses. The Vals River (south) and the railway line (north) impede on extension of the CBD. Consequently the CBD is extending:

- linear along Reitz Street as a main access road to Kroonstad from the N1 National Road. The area is presently characterised by a mixed use appeal.
- linear adjacent to Noordweg up to the Checker Centre business node
   (Δ6). The southern trajectory of Noordweg naturally developed as development corridor, as it serves as a main access road from Viljoenskroon and Parys. The area is presently characterised by a mixed use appeal.
  - Although the northern trajectory will remain residential, residential densification options and mixed residential land uses are deemed feasible adjacent this trajectory of the corridor.
  - Areas further south, between the Checkers Centre ( $\Delta 6$ ) and the railway line (delineating the existing CBD) should be deemed extremely valuable land aiming to accommodate business and mixed, higher density residential land uses (including park erf 1/1402).

The two well-placed neighbourhood centres, the Checkers Centre ( $\Delta 6$ ) to the north and Panorama Plaza ( $\Delta 7$ ) to the south must remain as neighbourhood centres, not exceeding 8 000 m<sup>2</sup>.

Due to the limited extension possibilities of the CBD, future extension will naturally occur along Reitz Street and Noordweg as main access roads to Kroonstad.

**B 1, 2 & 3:** Three prominent refuelling stations are provided adjacent the N1, respectively to the north and south of the urban area, namely:

- B1: Existing Shell Ultra City and,
- B2: Proposed for extension of Shell Ultra City (motor show room).
- B3: Existing property earmarked for a refuelling station (not yet developed).
- Δ8: Long-term development of the Heuwelsig, Tuinhof and Jordania precincts will enhance business development in the area and the establishment of a neighbourhood centre is highly likely in future.
- Δ9: Commercial/ high and mixed density residential development node.
- **S10:** The open area between the Vals River and the CBD, to the west of the CBD, has been identified to be developed as a formal public open space with limited developable portions thereof for business purposes.
- Δ1: The identified and centrally located business node in Maokeng has adequate capacity for long-term business development.
- Δ5: It is proposed that provision is made for a business node at Brentpark with the envisaged development of the area between Brentpark and the Phomolong residential area.
- Δ2 Δ5: Various other business nodes, varying in size and nature, although not yet developed, have been identified

# **Maokeng and Brentpark**

Provision was made in Maokeng for an accessible and centrally situated business centre, and is envisaged to develop shortly. Apart from proposed  $\Delta 5$  and 11 premises earmarked for businesses, in the form of neighbourhood shops, additional nodes have not been identified in Brentpark.

#### FUTURE SPATIAL FRAMEWORK

- Δ9: The former Kroonstad High School sport ground (erf 5873) was neither maintained nor utilised since the relocation of the school. Although State owned, the premises is exceedingly well-located and visible from the N1. It is deemed a typical example of lost urban space and must be considered for appropriate redevelopment.
- Direct access thereto from the N1 will, however, not be granted by SANRAL.

#### **Kroonstad CBD and related Corridors**

It must be accepted that the extension of the Kroonstad CBD, as it exists presently, comprises limited space for expansion due to its locality in relation to the Vals River and the railway grounds (station and tracks). This exerts pressure on the Reitz Street and Noordweg corridors to systematically develop as an elongated extension of the CBD in an eastern and northern direction respectively. The phenomenon is deemed an irreversible urban dynamic, requiring a response to permit, control or prevent its development.

Functioning as one of the most important accesses to the Kroonstad CBD, Reitz Street provides direct access to the CBD and the light industrial area of Kroonstad off the N1. From a more holistic perspective, it also connects the heavy industrial area, Brentpark and Maokeng with the national bypass road, thereby cementing this street's importance as primary access. This gives rise to so-called corridor or lint development. Corridor development, or activity axes development, is a modern, generally-accepted urban design principle. The identification of Reitz Street as a typical corridor is an important stimulus that will support urban development.

As previously outlined, the southern trajectory of Noordweg naturally evolved as a development corridor and serves as main access into the Kroonstad CBD, from Viljoenskroon and Parys. The area is presently characterised by a mixed use appeal.

- Although the northern trajectory will remain residential, residential densification options and mixed residential land uses are deemed feasible adjacent this trajectory of the corridor.
- Areas further south, between the Checkers Centre (Δ6) and the railway line (delineating the existing CBD) should be deemed extremely valuable land, earmarked to accommodate business and mixed, higher density residential land uses.

# **Commuting Nodes**

The only taxi terminus in Kroonstad is situated south of the railway station, on the northern extreme of the CBD and accommodates both short and long distances commuters. The site is optimally used and functioning beyond capacity.

Apart from distributed and often not well-planned embarking and disembarking points at nodes of significance, no other formal commuting nodes exist in Kroonstad, Maokeng or Brentpark.

An informal embarking point exists opposite the Boitumelo Regional Hospital constituting continuous pedestrian/ traffic conflicts. A more suitable location is therefore proposed at T2 (erven since planned and pegged), in relation to the envisaged future main entrance to the hospital premises

- It is suggested that the Municipality urgently considers an Integrated Transport Plan (ITP), prepared in consultation with role-players, to holistically address, amongst other, commuter needs in the urban area.
- **T1:** Upgrading of the taxi terminus in Kroonstad (Selborne Square) has been identified as an urgent priority for several years an alternative and suitably located node could be explored.
- Apart from several smaller taxi nodes in Maokeng, well-planed (traffic safety and exposure) sheltered embarking points and the provision of taxi bays for the safe embarking of taxis along collector roads are considered imminent priorities.
- **T2:** A well located and substantial taxi terminus (or sub terminus) premises is identified and provided opposite the Boitumelo Regional Hospital (erf 30804).
- **T3:** Upgrading and/ or more suitable arrangements should be made to better accommodate the current informal node at the Checkers Centre.

# **Urban Open Spaces**

Apart from maintenance not adequately being done, Kroonstad has sufficient and well-developed sport and recreation facilities and has various developed parks such as:

- \$3: Loubser Park and adjacent Show Grounds
- **S2**: The Seeisoville sport terrain has recently been developed to the level of a well-developed neighbourhood sport stadium.
- **S6:** Former rugby fields must remain as sport grounds
- **S7:** Golf Course
- **S8:** Correctional Services Golf Course

- Current and old excavated areas do not represent functional open spaces, unless properly rehabilitated and landscaped.
- Lost urban space and brownfields, not being core, buffer or functional open spaces, could be utilised for infill planning purposes.
- The identification of desirable parks in Maokeng is necessary to be developed for sport and recreational purposes (informal soccer parks).
- **\$1:** A centrally accessible sport terrain was provided in Maokeng that should continually be developed.

- **\$9**: Jukskei Park (privately owned)
- S13: "Fanie se Gat"
- **\$15**: Serfontein Dam water ski resort
- **\$16:** Boemhoek Dam riparian

**\$1:** A centrally accessible sport terrain was provided in Maokeng, but is not developed.

The Nyakallong Resort (**S4**) is generally in a dilapidated state and urgent upgrading thereof is required to prevent it from becoming derelict.

Although adequate provisions were made for parks in Maokeng for the purposes of sport and recreation, these are not developed at present.

A need has subsequently been identified to upgrade a centrally situated community hall in Maokeng to be well equipped and serve as a satellite theatre.

#### **FUTURE SPATIAL FRAMEWORK**

- **S3:** The Loubser Park stadium needs to be upgraded as a regional athletics stadium.
- **S4:** The Nyakallong Resort is in a dilapidated state and urgent upgrading thereof is required to prevent it from becoming a ruin.
- **\$5:** The Brentpark sports ground, although initially well-developed, needs urgent upgrading to prevent further deterioration thereof.
- **\$7:** Possibilities exist to develop and upgrade the golf course and to provide housing in the area to establish a high cost residential estate.
- **S10**: The open area between the Vals River and the CBD, to the west of the CBD, has been identified to be developed as a formal public open space with limited developable portions thereof for business purposes. This area renders ideal opportunity to be developed with day visiting and other recreation facilities to provide additional public access to the riverfront.
- **S11:** Further upgrading and development of the "Noord Oewer" park is considered as a priority. Portions thereof are at present utilised for the purpose of a "wildlife sanctuary".
- Proper management of the riparian must be implemented to intercept misuse and pollution of the area, being a principal source of raw water to the urban area.
- **S12**: A prominent viei area, stretching between the Seeisoville and Marabastad precincts, was partially rehabilitated. Although partial rehabilitation efforts occurred, completion thereof is essential; especially considering flooding and the safety of pedestrians in the area.
- \$14: Possibilities exist to establish mixed residential opportunities, restricted business and institutional land uses and a water bird

STATUS QUO	FUTURE SPATIAL FRAMEWORK
	sanctuary adjacent to the Vals River, subject to the 1:100 year floodline,
	on the Strydom Dam riparian.
	■ <b>\$15</b> : The implementation of appropriate development control at the
	Serfontein Dam water ski resort, amongst other, allowing for access to
	the general public, must timely be addressed.
	■ <b>\$16</b> : Proper management of the Boemhoek Dam riparian must be
	implemented to intercept misuse and pollution of the area, being a
	principal source of raw water to the urban area.

# **Public Open Spaces**

- Continuous subdivision of functional and formal open spaces to accommodate social amenities and business land uses must be prohibited.
- A policy relating to numerous applications by faith base institutions is required, ensuring that development of properties occur within a realistic timeframe, and in failing to do so, land must revert back to the Municipality.
- In supporting the above, several smaller functional open spaces in all urban areas, are not developed and are proposed for leveling and gravel surfacing to establish informal sports areas. Reluctance in the provision of functional open spaces result in these premises becoming derelict and problematic for the surrounding community, often illegally dumping refuse on the premises and setting fire thereto.
- Provision of open spaces should be maintained according to CSIR Guidelines for the Provision of Social Facilities in South African Settlements –
   Medium Towns (First Edition: August 2012).
- Total provision of functional and formal open spaces has to be at least 0.5 ha/1 000 people, 40 % of this allocation is for strategic (regional) and district facilities and 60 % for community, urban and neighbourhood parks, play lots, etc.

#### **Resorts and Tourism**

The area is not considered as a primary tourist destination, although it is increasingly becoming a favourite weekend destination. The hunting and guesthouse industries displayed an exceedingly rapid growth the past few years. Recreation areas and facilities are predominantly confined to the urban areas. The Kroonpark, Jukskeipark and Serfontein Dam water-ski (to a lesser extent) recreation and holiday resorts in Kroonstad attract interest throughout the region.

• A total of nine provincial and national 'jukskei' tournaments are envisaged to take place in Jukskei Park, the national convergence of 'jukskei' in South Africa.

STATUS QUO	FUTURE SPATIAL FRAMEWORK

- Revitalisation of the Kroonpark Holiday Resort, as a favoured inland resort, is deemed necessary to enhance its economic vitality.
- Although the larger segment of the Vredefort Dome Word Heritage Site (VDWHS) is located within the Moqhaka Municipality, full advantage thereof is not taken. The economic advantage the area holds, is yet to be exploited by the Municipality.

# **Heritage Considerations**

The Free State Province played a significant role in the Anglo Boer War, resulting in a number of historically important tourist attractions. The Koppies area, for example, is becoming well known for various battlefields that are visited as tourist attractions (Battlefield Tourist Route). These tourist attractions of historical importance include, among other:

- Reverent Mahabane House <sup>1</sup> in Marabastad (Kroonstad), being a National Heritage Site.
- Conservation of the area below Strydom Dam is additionally evident as archaeological findings (artefacts) are present at this location.
- Kroonstad Concentration Camp Cemetery
- Kroonstad Heroes Acre
- Sarel Cillier's Farm

All known heritage sites in the Moqhaka Region should be documented and listed in a Municipal Heritage Register for submission to the Provincial Heritage Resources Authorities. This is a listing of the heritage resources in the Moqhaka Municipality that are considered to be conservationworthy in terms of the heritage assessment criteria set out in Section 3(3) of the National Heritage Resources Act.

## **Vals River**

Due to the significant role the Vals River fulfils in the region, in providing potable water, everything possible must be done to restrict the pollution of these sources to the minimum. Riparian areas must be protected against injudicious use on account of their ecological aesthetic or recreational value taking amongst other, cognisance of:

<sup>&</sup>quot;Teacher, court interpreter, minister and first President-General of the ANC, Mahabane was described as a diplomatic, slow-speaking and calm man, who combined politics and Christian ethics to fight racism. He was keen to unite all blacks into one firm and positive political front. Through the ANC he constantly tried to educate Africans about their rights and made frequent representations against the colour bar. Mahabane lived and worked in Kroonstad for most of his long career." (New Dictionary of South African Biography, 1995).

STATUS QUO	FUTURE SPATIAL FRAMEWORK

- Leisure Residential and Resort Developments according to Free State Province, Department of COGTA's Development of Rural and Peri-Urban Areas Guidelines (2006),
- The Free State Province Biodiversity Plan (2015)
- Implementation of the Strategic Objectives and Management Zones of the Vredefort Dome World Heritage Site EMF and the Moqhaka EMF <sup>2</sup>
- All development application have to be assessed in terms of the management zones proposed in the Moqhaka EMF.

#### Cemeteries

Adequate provision was made for future extensions of the existing cemeteries of Kroonstad, Wespark (C1) and Maokeng (C2) for the ensuing ten years. The cemetery in Brentpark (C3) is, however, completely occupied.

Various older cemeteries are situated in the urban area, generally in a derelict condition and maintenance thereof is urgently required.

- C6: Seeisoville Cemetery
- C7: Boighsong Cemetery
- C8: "Old Maokeng Cemetery" located on Propnet property
- C9: Stilfontein Cemetery

- C1: Adequate provision was made for the long-term extensions of the Kroonstad Cemetery.
- Continuous maintenance and protection against vandalism of the Heroes Acre (C4) and Concentration Camp Cemetery (C5), being heritage resources of significance, is a key priority.
- **C6:** An area, not subject to the 1:100 year flood line, was identified adjacent the existing Brentpark sports terrain for the possible extension of the Brentpark cemetery
- C2: Continuous extension of the Maokeng cemetery should be preceded by a proper Geotechnical Report.
- Continuous maintenance and protection against vandalism of unused cemeteries should be considered as a key priority.
- The provision of ablution facilities and fencing of cemeteries is urgently required.

# **Other Social Amenities**

VDWHS Environmental Management Framework & Moqhaka Environmental Management Framework 2013 (Source: Department of Environmental Affairs). The VDWHS is located within the North-West and Free State Provinces and falls under the jurisdiction of the Dr. Kenneth Kaunda District and Tlokwe Local Municipalities in the North-West Province and the Fezile Dabi District and Moqhaka and Ngwathe Local Municipalities in the Free State Province.

STATUS QUO	FUTURE SPATIAL FRAMEWORK
(Refer to figure 10)	
Social amenities have, in the past, mostly been provided according to guidelines, gradually developed by the CSIR. However, older areas are mostly and often typical of under provision. More recently planned areas should reflect guidelines and standard provided by the CSIR, lately culminating in the <i>Guidelines for the Provision of Social Facilities in South African Settlements First Edition (August 2012)</i> .  • Current demands; especially relating to faith based organisations, resulted in a dramatic increase in land parcels for this land use, above and beyond what is specified in the guidelines.	- whereby the continuing subdivision of valuable land earmarked for other social amenities should be prohibited

Despite the required provision, demands seems to be ever increasing with a much higher need than what is provided. In order to intercept this need, formal open spaces and other social amenities erven are being subdivided, thereby negating the ideal provision of social amenities – a practice that is deemed undesirable and not contributing

to sustainable human settlements.

Sustainable human settlements are not achievable without adequate social facilities, differentiated according to varying development densities, community size, mobility levels and socio-economic disparity. The quality and capacity of facilities, in offering the right range of services for a specific community profile and operated by competent staff, together with good maintenance of the facilities, remain critical to the effective delivery of services.

# E: INDUSTRIAL AREAS

E. INDOSTRIAL ARLAS			
STATUS QUO		FUTURE SPATIAL FRAMEWORK	
Industries			
The noxious industrial area, Industria (I1) and light industrial area	•	<b>I1:</b> The <i>Industria</i> industrial area has several vacant sites and further	
Kroondustria (12) are situated to the north west of Kroonstad. A serious		extension thereof is not foreseen.	
concern is the fact that the main access to the industrial area, from the	•	The former electrical power station, located within the <i>Industria</i>	
major road network, is through the Kroonstad CBD resulting in dilapidated		industrial area, is in the process of being commissioned, mainly as a	
road surfaces in the CBD.		result of private initiatives, with emphasis on a "bio fuel generator"	
		rather than traditionally used coal.	
The Gunhill industrial area is situated north of the Suidrand neighbourhood	•	<b>Δ4/I2:</b> Incessant residential development towards 11 <sup>th</sup> Avenue (main	
and is mainly utilised as a petroleum substance depot (14). Concerns have		access to Brentpark/ Kroondustria) may result in the remaining	
been raised that fuel tankers, piling up in an event to be refuelled, present		industrial erven (6298 – 6303) continuously being converted into mixed	
a pertinent risk and are also conducive to the current dilapidated road		use development i.e. service industrial development, commercial and	
surfaces in the area.		high density residential developments.	
	•	<b>I3:</b> Vast portions of open land (Transnet properties) are also available	
		in the industrial area, should a development need arise. The latter is in	
		alignment with Transnet's policy to alienate land not in use.	
	•	Although not finalised, land located in the industrial area, currently	
		owned by Transnet, was granted to the municipality and development	
		proposals were made by the Housing Development Agency, who	
		oversees development of the specific area.	
	•	Proposed upgrading and extension of the current <i>Transnet Goods Shed</i>	
		(if commencing) will also occupy large portions of land.	
	•	<b>I5:</b> The possibility exists to establish an "Industrial Park" adjacent the	
		N1, north of the existing urban area, if comprehensive investigations in	
		this regard, proof it to be viable.	

# **Extractive Industries (Mining)**

Diamond deposits are present in the vicinity of Kroonstad and have previously been mined at the Lace and Voorspoed diamond mines. *De Beers* commenced with the redevelopment of the two mining areas and exploitation is currently underway (refer to Rural Spatial Framework Plan).

- Current estimates see De Beers mining operations to be ceased in the near future, with opportunities to further exploit the Voorspoed mine, most likely by a different mining company.
- Gravel is also exploited throughout the area.
- Limited sand winning (some of which are illegal) further occurs adjacent the Vals River.

# FUTURE SPATIAL FRAMEWORK

- Gravel and sand exploitation and the rehabilitation of mining terrains must be preceded by permits (by virtue of the Mineral and Petroleum Resources Development Act, Act 28 of 2002).
- G8: Various illegal activities adjacent to the Vals River should be seized
  as a matter of urgency; especially in view of the detrimental effect of
  unorganised and uncontrolled activities on the environment
- Several sand winning mining terrains are present on the Vals River riparian (G1-G3) while gravel quarrying pits are distributed throughout the urban area (G4-G7).
- **G8:** Two sand winning mining terrains subsequently exist on the Vals River riparian where sand was mined without the necessary permits and need to be rehabilitated as a matter of urgency; especially in view of the unsafe nature of the sites.

#### F: SURFACE INFRASTRUCTURE & BUILDINGS

#### **Airfields**

The Kroonstad airfield is perhaps the most ideal for upgrading and presently comprises of a well maintained runway with additional grass covered runways. Its location is ideal in close proximity and with a direct access to the N1 National Road.

Ample suitable land is also available for future extension. The airfield presently supports the agricultural orientated industries of the Greater Kroonstad. However, the airfield has recently been leased to a private company with no capacity to upgrade the existing runway. It is apparent

 The Kroonstad airfield may well purposefully be upgraded and extended to further support the agricultural orientated industries in Kroonstad.

# National air freight hub and dry harbour facility (Kroonstad Airfield)

• The Kroonstad airfield is ideally located for upgrading to a national air freight hub and dry harbour facility. Its location is ideal in close proximity and with a direct access to the N1 National Road. that the lease agreement will have to be revisited in order to resolve the issue of maintaining existing infrastructure.

- Although the airfield presently supports the agricultural orientated industries of the region, the potential thereof as a national air freight hub should not be overlooked.
- If maintenance of the airfield is not addressed as a matter of urgency, exceedingly valuable infrastructure will become dilapidated and the risk arises to forfeit its license to operate as a Civil Aviation approved airfield. The detrimental effect of the latter is evident.

## **Railway Lines and Stations**

The main railway line between Bloemfontein and the Gauteng Province stretches through Kroonstad. The railway line to Bethlehem also intersects with the above railway line in Kroonstad.

The Kroonstad station is situated in the centre of the urban area. The predominant role that railway transportation plays in the urban context, are further confirmed by vast open areas of land presently owned by Transnet. These properties are distributed through the entire urban area and Transnet previously indicated their willingness to alienate certain portions of land for normal urban development.

The Kroonstad railway junction is a strategic node in the Spoornet rail system and will continue to play an important role in this regard. However, the dilapidated condition of the old station in Kroonstad is a matter of grave concern, notwithstanding gross negligence of a heritage site worth conserving.

## **Landfill Sites**

Expansion of the current regional landfill site, west of Brentpark must not be contemplated. Due to continuous complaints and concerns raised by the surrounding public and the current unsatisfactory health and environmental conditions (mainly due to ill-maintenance), relocation of the site has become a priority and general consent was reached that a more suitable regional landfill site should preferably be identified.

- **D:** The current regional landfill site has reached capacity and investigations should timely commence in identifying a site, not located within/ close to residential precincts, meeting all legal requirements and with capacity to serve the greater urban area in the longer term.
- Maintenance, clean up, save closure and rehabilitation of the existing site is deemed a priority and promptly required; especially in view of increasing pollution and incessant illegal dumping on its periphery.

	The possibility of establishing well located transfer stations to the
	Kroonstad refuse dumping site (for example in Viljoenskroon, Renovaal,
	Steynsrus and Vierfontein) could be investigated as a long-term waste
	management solution in the Moqhaka Region.
eering Services	

# Table 8 Bulk Services Provision Kroonstad / Maokeng / Brentpark Urban Area

(Source Moqhaka Municipality, 2017)

#### **Water Purification**

- Raw water supply: water is pumped from the Vals River to Bloemhoek Dam, requires upgrading (will not be able to provide future demand)
- Adequate purification capacity (2020)
- Will require additional reservoir capacity
- New bulk water supply pipelines and pump stations will be required for future urban extensions

## **Waste Water Treatment Works**

- Residential developed is not allowed within 500 m of a waste water treatment plant
- Several Waste Water Treatment Works (WWTW) pump stations require upgrading
- WWTW network requires upgrading
- WWTW capacity will have to be increased to allow for new extensions

# **Electricity**

- Eskom provides bulk for distribution by the Municipality to all precincts
- Notified maximum demand from ESKOM is 60 MVA, current load is 55 MVA (winter)
- Although bulk is available, remote developments may require bulk transfer lines

#### Infrastructure Services

All urban areas were analysed in an attempt to identify shortfalls in infrastructure service delivery and to identify areas for eradication of backlogs or upgrading of services, the following categories were thus applied:

- Areas in the process of establishment (green)
- Areas established, unoccupied, without services (red)
- Areas established, occupied, with rudimentary services (brown for sewer, that will imply buckets and blue for water, that would imply standpipes)
- Areas established, unoccupied, with services, partly or completely (yellow)

Infrastructure Service Provision: Water Network			
<ul> <li>Provided with water network</li> <li>Extension 9: Established, partially occupied, serviced</li> <li>Extension 10: Established, not occupied, no services</li> </ul>	<ul> <li>Provided with water network</li> <li>Tuinhof (Ext 71 &amp; Ext 75): Established, not occupied, no services</li> </ul>	<ul><li>Provided with water network</li></ul>	
<ul> <li>Extension 11: Established, not occupied, serviced</li> <li>Extension 12: Established, not occupied, no services</li> <li>Extension 13: Established, not occupied, no services</li> </ul>	<ul> <li>Elandia (Ext 64, 65 &amp; 66): Established, not occupied, no services</li> </ul>		
Sewer Network			
<ul> <li>Provided with sewer network</li> <li>Extension 9: Established, partially occupied, serviced</li> <li>Extension 10: Established, not occupied, no services</li> <li>Extension 11: Established, not occupied, serviced</li> <li>Extension 12: Established, not occupied, no services</li> <li>Extension 13: Established, not occupied, no services</li> </ul>	<ul> <li>Provided with sewer network</li> <li>Tuinhof (Ext 71 &amp; Ext 75): Established, not occupied, no services</li> <li>Elandia (Ext 64, 65 &amp; 66): Established, not occupied, no services</li> </ul>	<ul> <li>Provided with sewer network</li> </ul>	
Electricity Network			
<ul> <li>Provided with electricity network</li> <li>Extension 9: Established, partially occupied, partially serviced.</li> <li>Extension 10: Established, not occupied, no services</li> <li>Extension 11: Established, partially occupied, partially serviced</li> </ul>	<ul> <li>Provided with electricity network</li> <li>Tuinhof (Ext 71 &amp; Ext 75): Established, not occupied, no services</li> <li>Elandia (Ext 64, 65 &amp; 66): Established, not occupied, no services</li> </ul>	<ul><li>Provided with electricity network</li><li>Municipality service provider</li></ul>	

<ul><li>Extension 12: Established, not occupied, no services</li></ul>	<ul> <li>Municipality service provider</li> </ul>	
<ul><li>Extension 13: Established, not occupied, no services</li></ul>		
<ul> <li>Municipality service provider</li> </ul>		

# **Regional Road Network and Future Access**

## **Road Requirements**

- **M6:** A future primary collector road will result in a direct link between the Welkom Road (M5) and the Viljoenskroon Road (M2) and in so doing, also increasing accessibility to the industrial zones in the Urban area, Maokeng and Brentpark. The nature of road should, however, not be on the scale of a bypass route but rather a main collector route.
- M7: The future northern bypass will provide a direct link between the N1 National Road (M1), the Parys Road (M3) and the Viljoenskroon Road (M2).
- L1: An additional link road to the Central Business District (CBD) is proposed across the Vals River in the long-term.
- L2: A link road is proposed as an extension of Brits Street to link with the Smaldeel Road.
- L3: A direct link road is proposed between Maokeng and the Industria industrial area.
- L4: The re-alignment of the eastern portion of the Smaldeel Road past Marabastad is a priority as it will provide an additional link between Maokeng, the industrial area and the CBD via Piet de Vries Avenue. Since the road carries substantial pedestrian and cycle traffic volumes, specific provisions should be made for safe movement once upgrading thereof be considered.
- The latter is pertinent due to the fact that the Noordweg subway is functioning on capacity, while no future upgrading possibilities thereof exist.

  The Piet de Vries Avenue subway is a double lane subway that can easily accommodate additional traffic.
- The road reserve of the proposed re-alignment of the Smaldeel Road past Marabastad (L4), has already been formalised during the township re-establishment and formulation of Marabastad.
- The construction of this road is deemed a priority, as it will significantly increase accessibility to the CBD and industrial areas from Maokeng.
- M4: The major provincial road between Kroonstad and Bethlehem (especially between Kroonstad and Steynsrus), of late, became exceedingly decrepit and resurfacing thereof is deemed an extreme priority.

# **Access Requirements**

- The proposed primary collector road will improve accessibility by providing a direct access to Brentpark and the light industrial areas () as well as a direct access to Maokeng and Boitumelo Hospital (H) that functions as a regional hospital (A6).
- Appropriate access will also be provided to the proposed new central sport terrain (S1).

■ A7: With the completion of the Maokeng inner-ring road, an additional access to Maokeng will be obtained from the Viljoenskroon Road (M2).