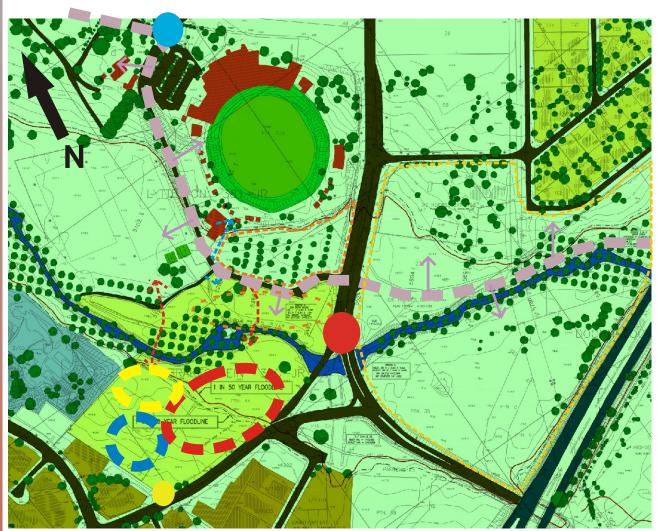


Arial photo of SuperSport Park





According to the site analysis the surrounding sites are mainly sports venues that contribute that this area can be classified as a sports hub in Centurion. According to the Centurion Integrated Development Framework this zone should be used for sport development and recreational facilities. With all the surrounding sports facilities a central pedestrian spine is developing from which all the facilities will feed from. The Centurion Rugby Club will be upgraded for rugby, soccer and other sport that need fields for training. Any further sports development will take place on the eastern side of South Street. The pedestrian spine will be the linkage between the existing sports hub and new proposals for sport facilities.

Flood line plan

Fig.61

University of Pretoria etd - Steyn PWA (2003) Proposed area for HPC. Interactive connection with river front. Proposed area for accommodation which will be connected with a pedestrian bridge to the developing sports hub. Proposed Learning Centre for high performance athletes of school going age and hostels Proposed Parking area for developing sports hub Indicate the main routes between different areas of Hi Performance Sport Centre as well as links with the sports hub. Connection between the proposed HPC and SuperSport Park. Proposed area for further sport development which will contribute to the existing sports hub. Proposed central parking for developing sports hub.

- Pedestrian spine which will become the backbone from which all the sport facilities will feed from
 - Main entrance to site and sports hub. Will became an important node in further development of sports hub.
 - This entrance may become the primary entrance to the developing spots hub.
 - Entrance limited for services only

SportScience Centre

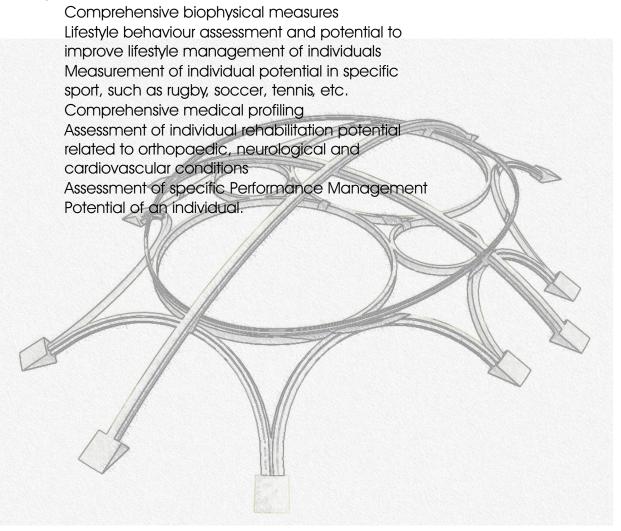
The Hi-Performance centre sport science services vision is to be a state of the art leader in revolutionizing the management of sport performance and sport development in South-Africa.

The sport science services will offer a seamless product mix, appealing to the high performance athletes who belong to the top echelons of their national, provincial, club or school structure, performance enhances who want to improve their performance, health and fitness enthusiasts, and patients requiring rehabilitation and intervention who are required by virtue of an injury or illness to a frequent curative service.

Medical Research Centre

With the aim of being the state of the art leader in multi disciplinary assessments, the assessment centre will offer a range of products focussing on scientific analysis and the measurement of an individual entailing physical and psychological assessment.

The product mix will include:



Sport Science Gym

The sport science gym is set to revolutionize the health and fitness industry in South Africa by:

Using advanced training technology

Employing multi disciplinary professional staff members and applying a scientific paradigm.

Lifestyle management and education

Outcomes-based measurement and reporting on multi disciplinary intervention strategies

Networking and initiating synergistic relations with other role players in the industry

Sport Science Gymnasium uses the most advanced equipment and technology currently available in the fitness industry using SmartTechnology®, which provides an outstanding way to manage exercise and training. This is integrated with other software programs to provide a comprehensive member management system.

The Smart Key® is a computerized key that is assigned to each member once they have been through a health and fitness assessment. The key stores all personal data and is used to log training sessions. For each training session it is inserted into the control panel of the TechnoGym®System equipment, where it directs and controls the workout intensity and records all the information from the session. The Wellness Expert® is an interactive touch screen computer console providing feed for members to view workout details for the day, test results, previous training results and performance indices, and to download the information saved from a completed workout onto the central database.

The training system used by Sport Science Gymnasium during lifestyle management is uniquely sophisticated in that:

All cardiovascular training is heart rate controlled (even spinning and aerobics classes). Heart rate controlled training increases the individual effectiveness and safety of cardiovascular training. It enables one to exercise at an intensity that stimulates the optimal adaptation for specific goals without the risk of under or over training. It also provides a safe environment for members with high cardiac risk, or previous cardiac problems to exercise in a safe, monitored manner.

Strength training controls range and speed of motion. Once again, the control facilitates optimal adaptation and avoidance of injuries. It also provides an environment for those members with special exercise needs to work safely.

The individual "key" directs and controls each workout, and gives immediate feedback on exercise execution and records workout data. This biofeedback system ensures that the intensity of exercise and rate of progression is determined individually and internally, Internal control means the system is responding to the person holistically, which is essential as mental, emotional, and psychological factors all contribute toward physiological responsiveness.

Auditorium

The Auditorium will provide a high tech environment focussing on comfort with ergonomically designed chairs, and will be enhanced by state of the art audiovisual equipment. The auditorium will be available for hiring to groups and will also be able to screen movies and sporting footage at regular intervals for individuals and groups to enjoy.

Learning Centre

The learning centre's vision is to create a centre of academic distinction that compliments and echoes the vision of its sport partners.

The learning centre will offer a flexible and internationally recognised academic programme to high performance athletes of school going age. The learning centre will acknowledge and support the unique sporting needs of its learners, but will also place a high premium on academic excellence. It will embrace the Hi-Performance centre philosophy of holistic development, and will aim at developing well-rounded sporting individuals.

The learning centre will support learners in their goal to achieve academic distinction by offering:

A curriculum of the highest academic standard that is recognised by Universities and Technikons, nationally and internationally

Establishing and maintaining communication with various sports coaches to detail the academic and sport programmes of learners

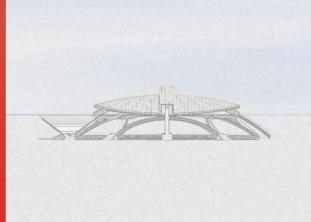
Designing tailor-made academic paths for students, taking cognisance of their sporting programmes

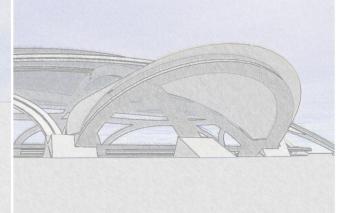
Offering a structured learning environment in which learning is facilitated by supportive and highly qualified teachers and tutors

Embracing technology by providing interactive computer assisted learning programmes that allow learners to keep up with their studies despite their demanding schedules.

Allowing learning to take place at learners' own time and pace Implementing a system of continues assessment that will allow learners and teachers to monitor the academic progress of learners

Implementing a comprehensive life skills programme to equip learners with necessary skills to fulfil their roles as responsible citizens of the world.





Accommodation Schedule Phase 1				Area	Total area	Light intensity	Temperatures	Ventilation	Air c hanges
Administrational area				639 m²				6	
	Entrance				151 m²		18 ℃	0.50 W/m ³ °C	
	Reception				30 m ²		18 ℃	0.33 W/m ³ °C	
	Administration	al offices	4	22 m² per office	88 m²		20 °C	0.33 W/m ³ °C	
	Strongroom	ai onices	4	22 HF per office	5 m ²		20 °C 18 °C	0.08 W/m ³ °C	
	_						20 °C	0.06 W/ITI °C	
	Securityoffice				12 m ²				
	Shop				341 m ²		18 °C	0.17 W/m ³ °C	
	Circulation				12 m ²				
Gymnasium	Control desk/Supplements				1707 m²				10
					24.6 m ²				
	4 Consultation	rooms		16.3 m² per room	65 m ²	500 lux	18-21 °C	0.17 W/m ³ °C	
	Circuit training	and Cardio e	quipme	nt	420 m ²	200 lux	16 ℃	0.25 W/m ³ °C	
	Weight training)			361 m ²	200 lux	16 ℃	0.25 W/m ³ °C	
	VIP Weight train	ning			275 m ²	200 lux	16 ℃	0.25 W/m ³ °C	
	Aerobics				245 m ²	200 lux	16 ℃	0.25 W/m ³ °C	
	Toilets				87 m ²	100 lux	24 °C	0.33 W/m ³ °C	
		Male			83.8 m ²				
		Showers	4						
		Toilets	2						
		Urinals	3						
		Washbasins	7						
		Handicap	1						
		Lockers	50						
		Steam bath	1	6 m²					
		Female		O III	101m²				
		Showers	4		101111				
		Toilets	5						
		Washbasins							
		Handicap] 50						
		Lockers	50	07.0					
	O	Steam bath	1	8.7 m ²	45 0				
	Circulation				45 m²				
Restaurant					701 m²				
	Restaurant			1.4 m² per seat	462 m²	200 lux	18 °C	0.33 W/m ³ °C	
	Kitchen				101 m ²	500 lux	18 °C	0.33 W/m ³ °C	20-60
	Circulation				115 m²				
	Toilets				23 m²	100 lux	24 °C	0.33 W/m³ °C	10
	Male			11.5 m ²					
		Toilets	1						
		Urinals	1						
		Washbasins	3						
		handicap	1						
	Female		•						
	2	Toilets	1	11.5 m ²					
		Urinals	i	1110111					
		Washbasins	3						
		handicap	3 1						
Modical		папакар	ı		308.3 m ²				
Medical	December 197					200:	20.00	0.50.44	•
	Reception/Off	ice			20 m ²	200 lux	20 °C	0.50 W/m ³ °C	6
	Storeroom				3 m ²		15 °C	0.08 W/m ³ °C	
	Waiting room			00 / 2	27.8 m ²		18 ℃	0.67 W/m ³ °C	
	5 Consultation			22.6 m ² per room	113 m²	500 lux	18-21 °C	0.17 W/m ³ °C	
	Specialized ed	quipment			76.2m ²	200 lux	18℃	0.25 W/m ³ °C	
	Circulation				30.9 m ²				
	Toilets				37.4 m ²	100 lux	24 °C	0.33 W/m ³ °C	10
	Male			17.9 m ²					
		Toilets	2						
		Urinals	1						
		Washbasins	3						
		Changing	1						
		Pandicap	1						
	Female	•		19.5 m ²					
	-	Toilets	3						
		Washbasins	3						
		changing	1						
		Handicap	1						
Auditorium		•	00 perso	ons	275.9 m²	100 lux	18 °C	0.67 W/m ³ °C	10
		'	00 PG 8	OI 10	2/5.9 m ² 2055m ²	i oo iux	10 -C	0.07 W/III C	10
Swimming	Outros - !	s.I	0.1-	•		000:	24.00	0.1714// 2.22	
	Swimming poo		8 lanes	S	1512 m ²	200 lux	26 °C	0.17 W/m ³ °C	
	Paviljeon for 1:				610 m ²	200 lux	26 °C	0.17 W/m ³ °C	
	Pump and service				95 m²				
	Office and adm	ninistration			120 m²	200 lux	20 °C	0.5 W/m ³ °C	
	Circulation				182 m²				
Squash					219.6 m ²				
	Courts			2 63.8 m ²	127.6 m ²				
	Pavilion for 132	people			71 m²				
	Circulation				21 m²				
Indooropen	ispace				5312 m²				
•	Ruining track 200	0m			3987 m²	200 lux	18 °C	0.25 W/m ³ °C	
	Circulation				1325 m²				
TOTAL					11 218 m ²				