

## Johan Meiring

LAND SURVEYING CONSULTANT
- JOHAN MEIRING & ASSOCIATES



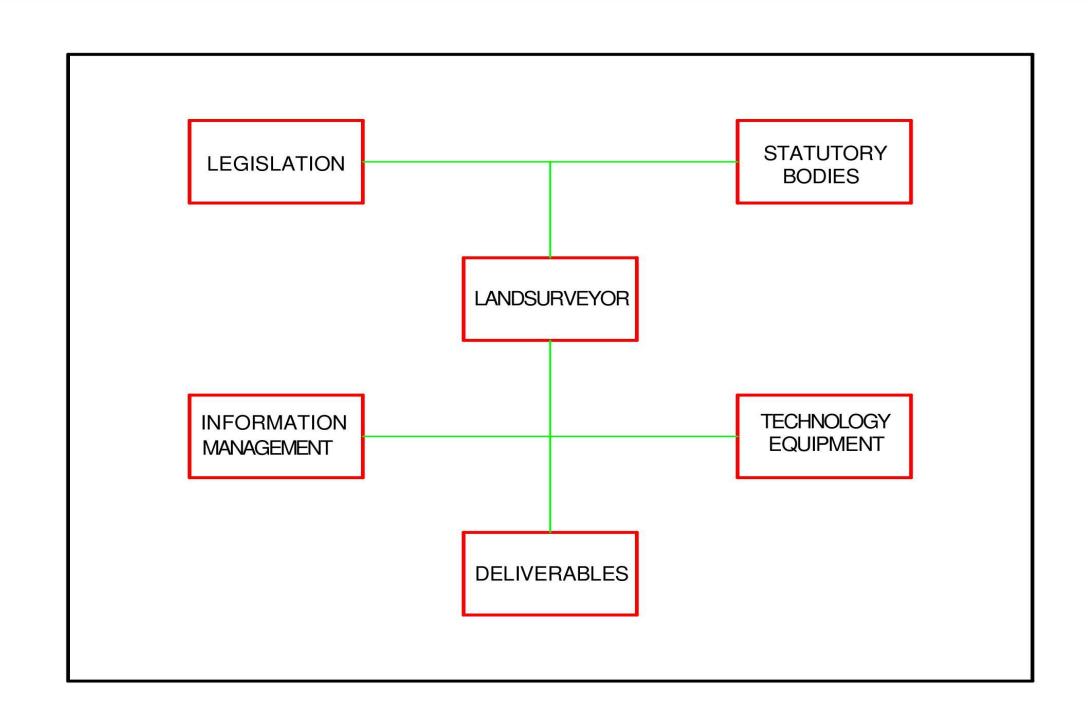


#### **GEODESY: CORNERSTONE OF PROPERTY MANAGEMENT**

The science of measurement of the earth and exact positions on its surface, as it applies to the survey, preparation and interpretation of diagrams and Sectional Title Plans for property ownership.

TOPICAL DIAGRAMS AND SECTIONAL TITLE PLANS





# Acquisition of Job



## **Process**





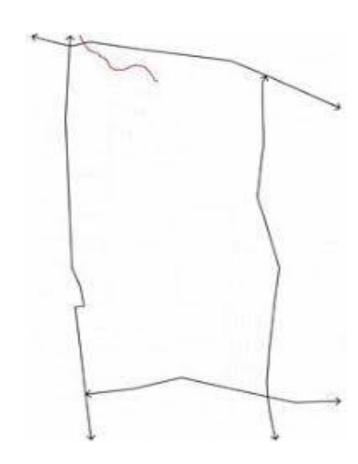




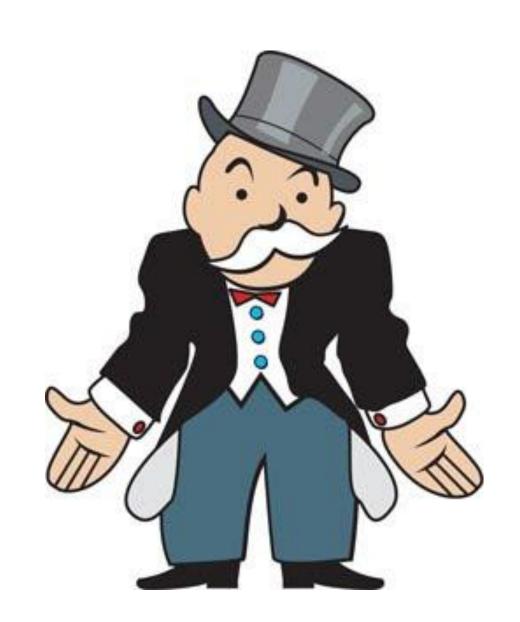
# Product

ALL THE EFFORT FOR THIS?





# Reward









#### SURVEY AND PLANNNING LEGISLATION

- a) Sectional Titles Act, 1986
- b) Sectional Title Scheme Management Act ,2011
- c) Land Survey Act ,1997
- d) Spatial Planning and Land Use Management Act, 2013(spluma)
- e) Land Use Planning Ordinance (15 of 1985)
- f) Subdivision of Agricultural Land Act 70 of 1970









#### STATUTORY AND GOVERNING BODIES

- a) SOUTH AFRICAN GEOMATICS COUNCIL (SAGC)
  - https://www.sagc.org.za/
- b) SOUTH AFRICAN GEOMATICS INSTITUTE (SAGI)
  - https://www.sagi.co.za
- c) CHIEF SURVEYOR GENERAL
  - Regional Branches
- d) DEEDS OFFICES: DEPT RURAL DEVELOPMENT AND LAND REFORM









#### **INFORMATION MANAGEMENT**

- a) Topographical and geodetic data base
  - 1) Chief directorate: National Geospatial Information (NGI)
  - 2) Local authorities
  - 3) Governmental departments
  - 4) Private sector
- b) Cadastral data base
  - 1) Surveyor General's offices
  - 2) Local authorities
- c) Registration data base deeds offices
  - 1) Land register
  - 2) Sectional title register









### **INFORMATION MANAGEMENT (Continue)**

- d) GIS
  - 1) Local authorities
  - 2) Private service providers









### **TECHNOLOGY AND EQUIPMENT**

- a) Angle and distance measuring tools
- b) Global positioning systems
- c) Specialized survey and georeferencing software
- d) Draughting and CAD software
- e) Remote sensing (scanners and lidar)
- f) Manned and unmanned aircraft





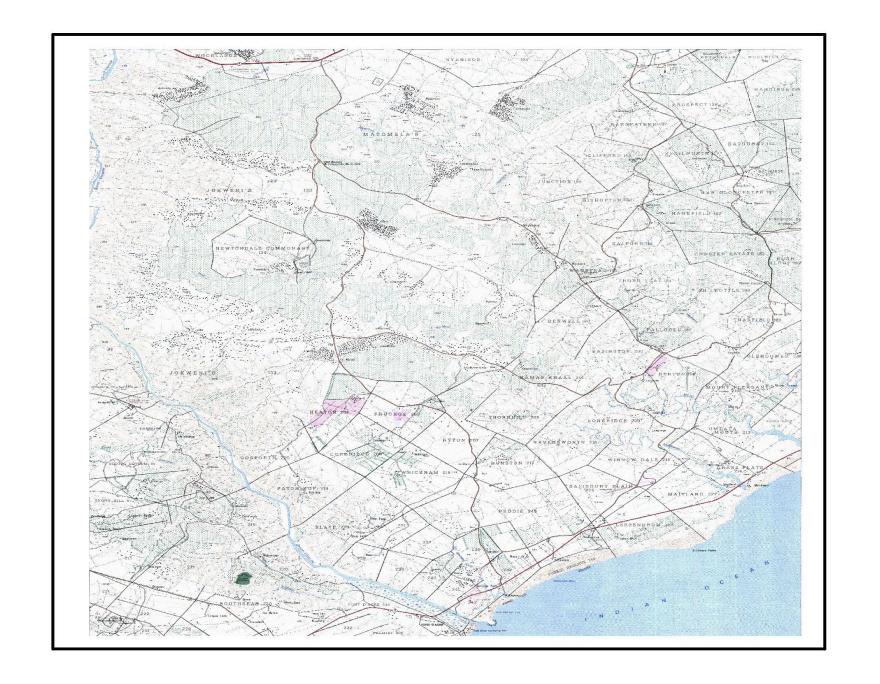




### **DELIVERABLES**

- a) Topographical maps
- b) GIS data base
- c) Georeferenced imagery and orthophotos
- d) Cadastral data base
- e) Diagrams and sectional plans for registration of property ownership





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# THE PREPERATION, APPLICATION AND INTERPRETATION OF SECTIONAL TITLE PLANS

# IN CONTEXT OF THE CHRONOLOGICAL PROCESS FOR ESTABLISHING A SECTIONAL TITLE SCHEME:









### I. PHASE 1

- a) Establishing ownership of land
  - 1) Title deed
    - Servitudes
    - Restrictive conditions
  - 2) Property diagram
- b) Survey boundaries and topography
  - 1) Encroachments
  - 2) Servitudes
  - 3) Beacons and building lines





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FG	94, 34	61.44.30	F	-49	260, 5	6	+57	517.	30	24	002.	۱٥٠	22
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INDI	I CATORY DA	I TA											
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TRIG	ONOMETRIC	AL BEACONS		•						1			
		4DC16	<b>⊕</b>	-49	108, 0	6	+57	995,	92				
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										-			

- (1) The line A B C D E represents the  $\,$  centre line of a Sewer Servitude 3,00 metres wide and
- (2) The line F G H represents a line 3,00 metres north of the southern boundary of a Sewer Servitude 5,00 metres wide over

#### REMAINDER ERF 898 WESTERING

situate in the Nelson Mandela Metropolitan Municipality Administrative District of Port Elizabeth  $\,$ 

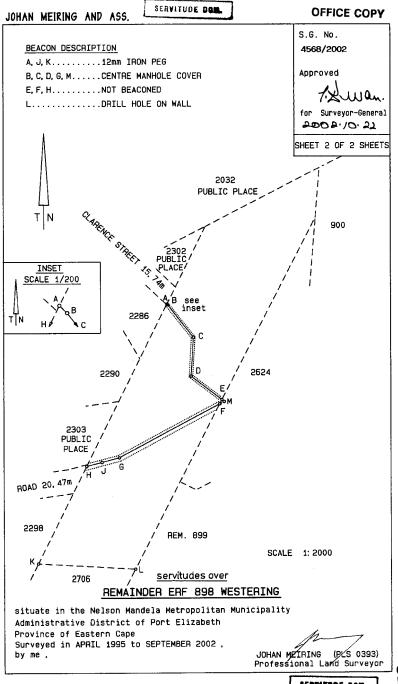
Province of Eastern Cape

Surveyed in APRIL 1995 to SEPTEMBER 2002, by me

by me

JOHAN MEIRING (PLS 0393) Professional Land Surveyor

This diagram is annexed to No. K674/2005 No. 4502/1938 File S/12805/11/3 vol.2 S.R. No. E 2080/2002 T.P. Comp. BOSX-2382(M3920) BOSX-2391(M3923)









### I. PHASE 1(Continue)

- c) Acquisition / verification property rights, development- and planning parameters
  - 1) Zoning and land use
  - 2) Planning scheme provisions
    - Density
    - FSI
    - Height restriction
    - Building lines
    - Parking provision
  - 3) Building and construction parameters
    - By- laws





Town Planning System

TPS10002

#### INFORMAL TOWN PLANNING ENQUIRY

Allotment Area: LORRAINE Sub Number: 0 Erf Number:

Consolidated: Subdivided:

2551 m2 Proclaimed Main Road: -Area: History: Lease: Structure Plan: Registered: Noting Sheet: BO8CCY1 **Habital Rooms:** Parking: Consent: N-Tie: Corner: CBD: N

Zone Information:

	Building		Side and	Height					
Zone	Line	Coverage	Rear Space	Restriction	Density	RVA	NCU	FSI	Area (m2)
RES1	B3	50	S5	2 FLRS	#	#	Ν	0.00	2,551.00

Code Descriptions:

B3 Dwelling houses: 5m on erf > 500 m2 or 3m on erf <= 500m2.

Carports: Nil for up to 6m, with consent. (see Reg. 8.2)

Private garages: Nil for up to 7m, with consent. (see Reg. 8.1(11))

Other buildings: 5m.

S5 Dwelling houses: 1.5m.
Car ports: With consent of abutting owners.
Private garages: With consent of abutting owners.
Other Buildings: 5m or half the height of the building.

#### **TPA Numbers**

307 (Approved)

Notes: LORRAINE

**56 LONGWY AVENUE** 

05-Mar-2019 02:50 PM Page 1







### I. PHASE 1 (Continue)

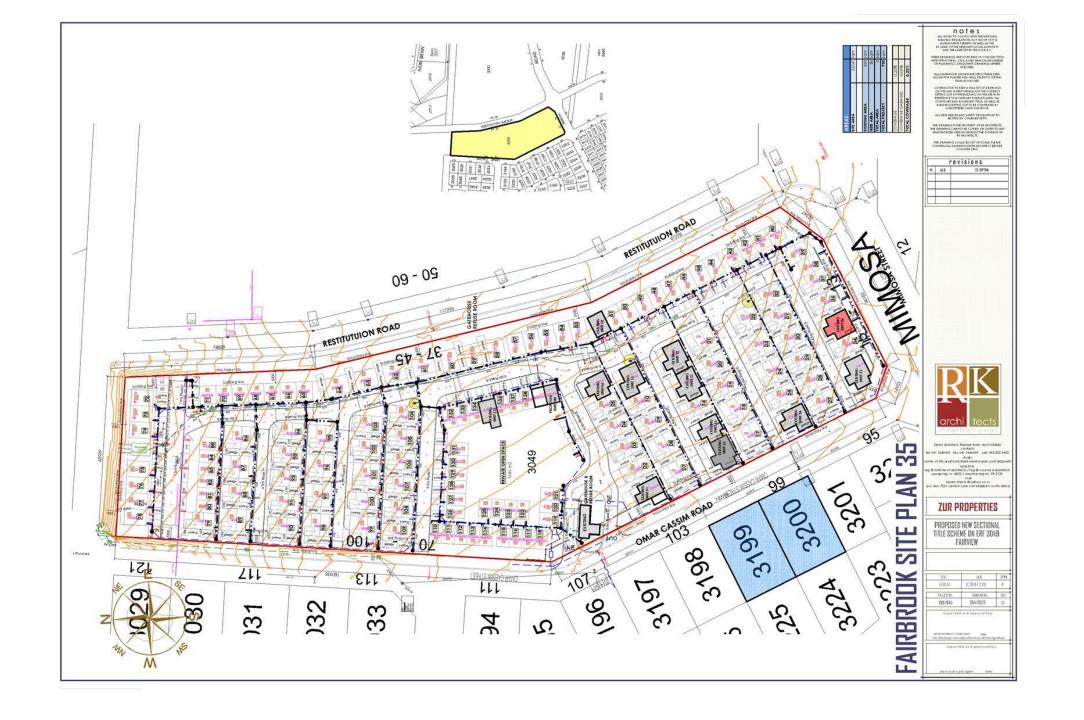
#### d) Design and building plans

- 1) Site development and services plans
- 2) Floor plans
- 3) Elevations and cross sections
- 4) Schedule of finishes
- 5) Access
- 6) Parking

#### e) Construction











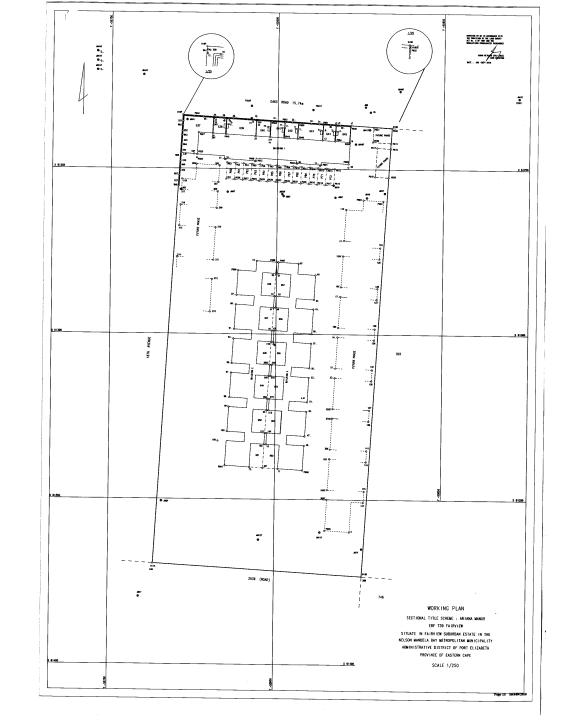


### I. PHASE 1 (Continue)

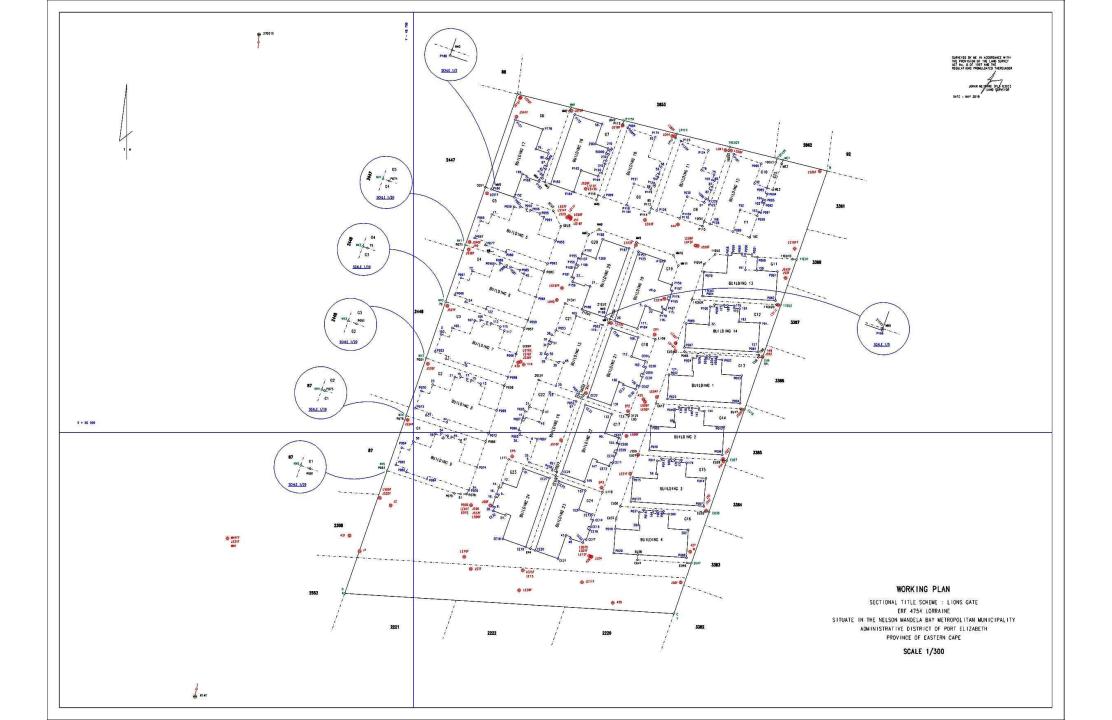
- f) Preparation of sectional titles plans
  - 1) Survey records
    - Report
    - Working plan
    - Coordinate list
    - Field work and measurements
    - Certificates
    - Median plans
    - PQ calculations

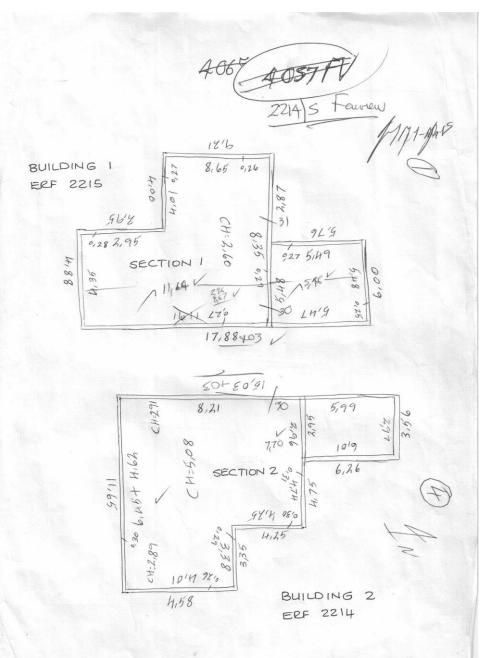


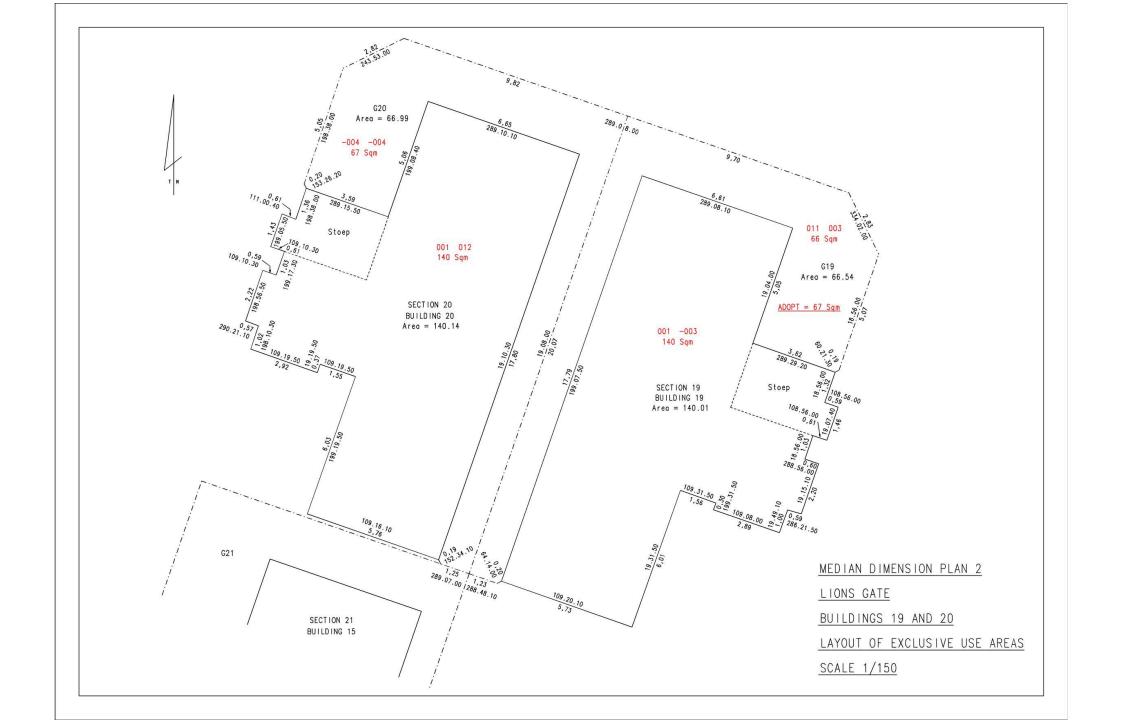




PROJECT SYSTEM W		ARSONSVLEI		
CODE	NAME	Υ	x	DESCRIPTION
CONSTAN		0.00	3700000.00	DESCRIPTION
CONSTAN		0.00	3700000.00	
Trigs	FM	-40781.04	56670.31	Trig beacon
<u> </u>	PTN	-47407.88	57752.47	Trig beacon
	TR406	-46068.64	62590.44	Trig beacon
	TR407	-46206.65	62552.41	Trig beacon
Placed	208	-46486.56	56287.41	12mm Iron peg
	209	-46486.56	56316.91	12mm Iron peg
	211	-46507.56	56316.91	12mm Iron peg
	214	-46507.56	56287.41	12mm Iron peg
	EX1	-46497.06	56287.41	12mm Iron peg
	EX2	-46497.06	56316.91	12mm Iron peg
Stations	JS34F	-46506.22	56315.08	12mm Iron peg
	JS35F	-46487.17	56316.05	12mm Iron peg
	ST05	-46458.23	56284.77	Drill hole in concre
	ST15	-46441.11	56300.32	Drill hole in concre
	ST24	-46486.90	56285.00	Drill hole in concre
	ST25	-46507.18	56285.10	Drill hole in concre
	ST26	-46555.46	56285.56	Drill hole in concre
	ZS70F	-46470.55	56319.02	12mm Iron peg
Phys feat	20	-46490.69	56298.21	Building corner
	24	-46488.47	56308.32	<b>Building corner</b>
	58	-46495.64	56312.26	<b>Building corner</b>
	80	-46503.26	56298.18	<b>Building corner</b>
	N002	-46501.98	56293.40	<b>Building corner</b>
	N003	-46498.41	56293.40	<b>Building corner</b>
	N004	-46495.50	56293.40	<b>Building corner</b>
	N005	-46491.91	56293.40	<b>Building corner</b>
	N006	-46488.45	56299.46	<b>Building corner</b>
	N008	-46491.76	56312.29	<b>Building corner</b>
	N009	-46498.51	56312.19	<b>Building corner</b>
	N010	-46502.29	56312.13	<b>Building corner</b>
	N013	-46505.52	56308.07	<b>Building corner</b>
	N014	-46505.49	56299.43	<b>Building corner</b>
Data	40	-46454.67	56273.99	
	41	-46456.79	56277.41	
	43	-46478.70	56277.41	
	44	-46500.70	56277.41	
	45	-46522.70	56277.41	
	46	-46544.70	56277.41	
	63	-46553.33	56287.41	







SECTION	AREA	PQ	PQ5DEC	ADJUST	
Ĭ	149	4.3465	4.34656	-0.0001	
2	149	4.3465	4.34656	-0.0001	
3	149	4.3465	4.34656	-0.0001	
4	150	4.3757	4.37573		
5	149	4.3465	4.34656	-0.0001	
6	143	4.1716	4.17153	0.0001	
7	143	4.1716	4.17153	0.0001	
8	143	4.1716	4.17153	0.0001	
9	143	4.1716	4.17153	0.0001	
10	143	4.1716	4.17153	0.0001	
11	143	4.1716	4.17153	0.0001	
12	143	4.1716	4.17153	0.0001	
13	140	4.0840	4.08401		
14	140	4.0840	4.08401		
15	140	4.0840	4.08401		
16	140	4.0840	4.08401		
17	140	4.0840	4.08401		
18	140	4.0840	4.08401		
19	140	4.0840	4.08401		
20	140	4.0840	4.08401		
21	140	4.0840	4.08401		
22	140	4.0840	4.08401		
23	140	4.0840	4.08401		
24	141	4.1131	4.11319	-0.0001	
TOTAL	3428	100.0000			

LIONS GATE

PARTICIPATION QUOTA SCHEDULE CALCULATIONS









### I. PHASE 1 (Continue)

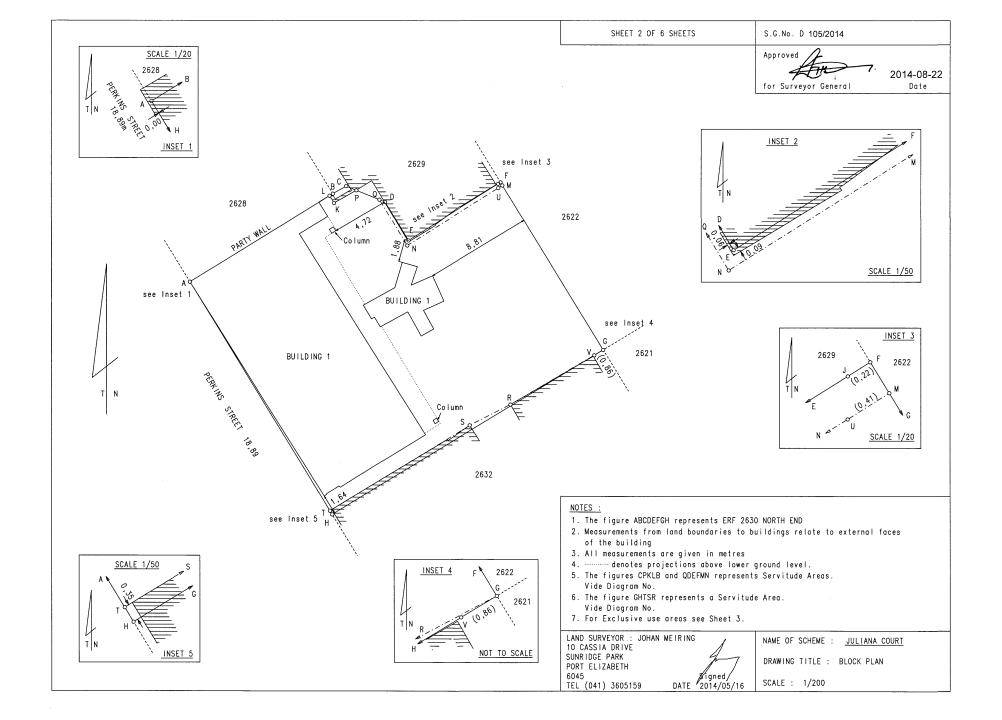
- f) Preparation of sectional titles plans(continue)
  - 2) Sectional plans
    - Sheet 1
    - Block plan
    - Floor plans
    - Exclusive use areas
    - Cross sections
    - PQ schedule

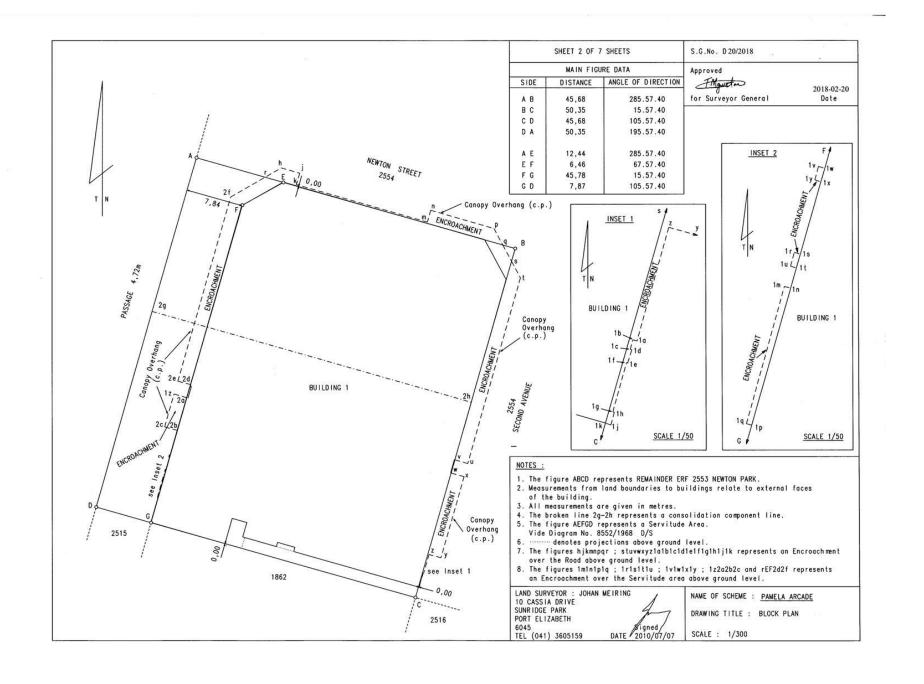


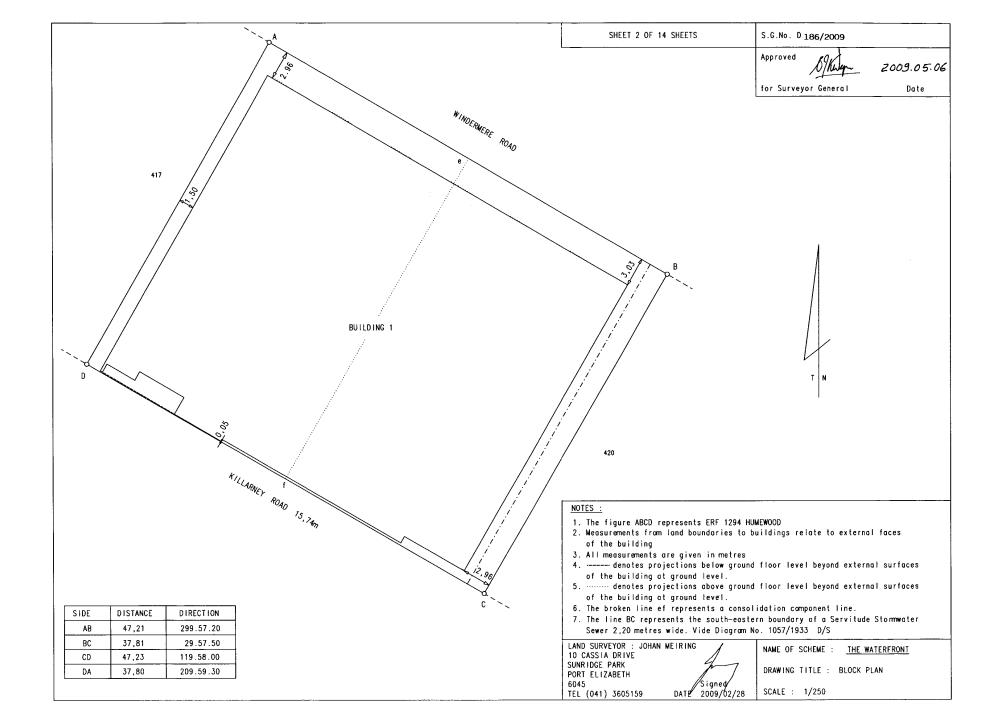
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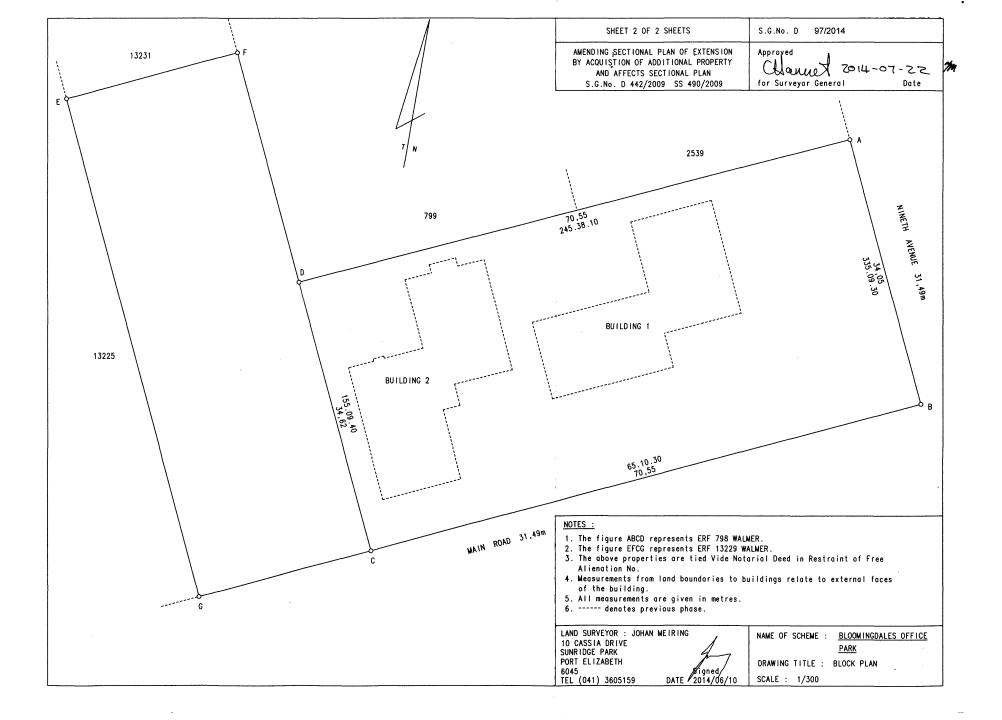
SECTIONAL PLAN No.SS 236/2009	SHEET 1	S.G. No.D 186/2009						
Registered at CAPE TOWN	OF	Approved Of Musey						
Registrar of Deeds	14 SHEETS	for Surveyor - General Date: 2009.05.06						
Date: 19.06.2009		Date: 2009.03.08						
NAME OF SCHEME : THE WATERFRONT								
DESCRIPTION OF LAND ACCORDING TO DIA	<u>GRAM :</u> ERF 1294	HUMEWOOD						
Situate in the Nelson Mandela Bay Metropolitan Municipality. Administrative District of Port Elizabeth. Province of Eastern Cape. Measuring 1784 (one seven eight four) Square metres.								
DIAGRAM No.: S.G.No. 3511/2006								
NAME OF LOCAL AUTHORITY: NELSON N	MANDELA BAY METROPO	DLITAN MUNICIPALITY						
DESCRIPTION OF BUILDINGS : One	Building namely							
1. Building 1 comprising sections 1	to 56 and common	property.						
EXCLUSIVE USE AREAS: See Sheet	s 4 and 6							
	Ni!							
CHONOMINENTS ON THE EMILE.								
CERTIFICATE :		shoots 4 to 44						
I, Johan Meiring, hereby certify the inclusive of this sectional plan from								
the provisions of the Sectional Tit								
thereunder	1 -							
Date: 2009/02/28 Signed,								
Address : 10 CASSIA DRIVE , SUNRIDGE PARK , PORT ELIZABETH , 6045								
Survey Records No. Compile SR 601/2009	ations: BO-8CD/X (2085							

SECTIONAL PLAN No.SS	SHEET 1	S.G. No.D 97/2014
Registered at CAPE TOWN .	OF	Approved
Registrar of Deeds Date:	2 SHEETS	for Surveyor - General Date: 2014-07 -22
AMENDING SECTIONAL PLAN OF EXTEN IN TERMS OF SECTION 26 AND AFFE		
NAME OF SCHEME : BLOOMINGDALE	S OFFICE PARK	
DESCRIPTION OF LAND ACCORDING TO DE 1. ERF 798 WALMER - in extent 2422 2. ERF 13229 WALMER - in extent 14	(two four two two)	square metres.
Both situate in the Nelson Mandelo Administrative District of Port El		
DIAGRAM No.: 1. S.G.No. 5543/ 2. S.G.No. 580/20		
NAME OF LOCAL AUTHORITY: NELSO	N MANDELA BAY METROP	OLITAN MUNICIPALITY
DESCRIPTION OF BUILDINGS: 2  1. Buildings 1 and 2 as shown on S.G.No. D 442/2009 SS 490/20		
ENCROACHMENTS ON THE LAND :_	Nil	
CAVEAT IN RESPECT OF EXTENSION OF right in terms of Section 25 to e		·
CERTIFICATE:  I, Johan Meiring, hereby certify inclusive of this sectional plan the provisions of the Sectional T	from survey in accor	dance with
thereunder	1 -	and the regulations from
Date : 2011/10/31 Signed . Registration Number PLS 0393 - D		•
Address : 10 CASSIA DRIVE , SUNRII	OGE PARK , PORT ELIZA	ABETH , 6045
Survey Records No. Comp 230/2014	ilations : B0-8CC/Y (2066)	



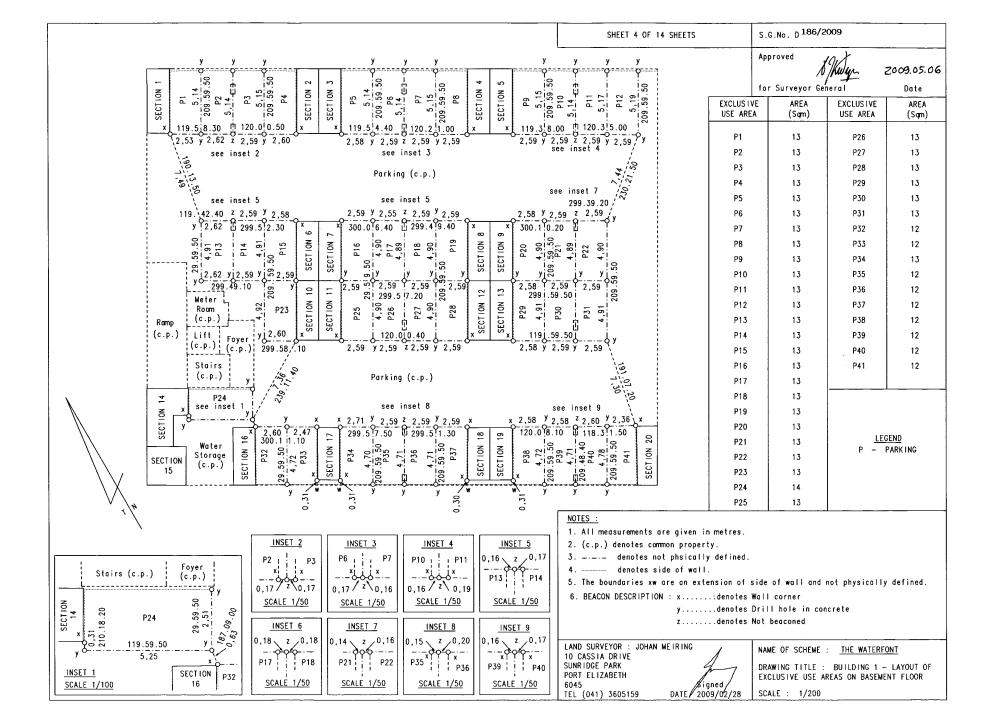


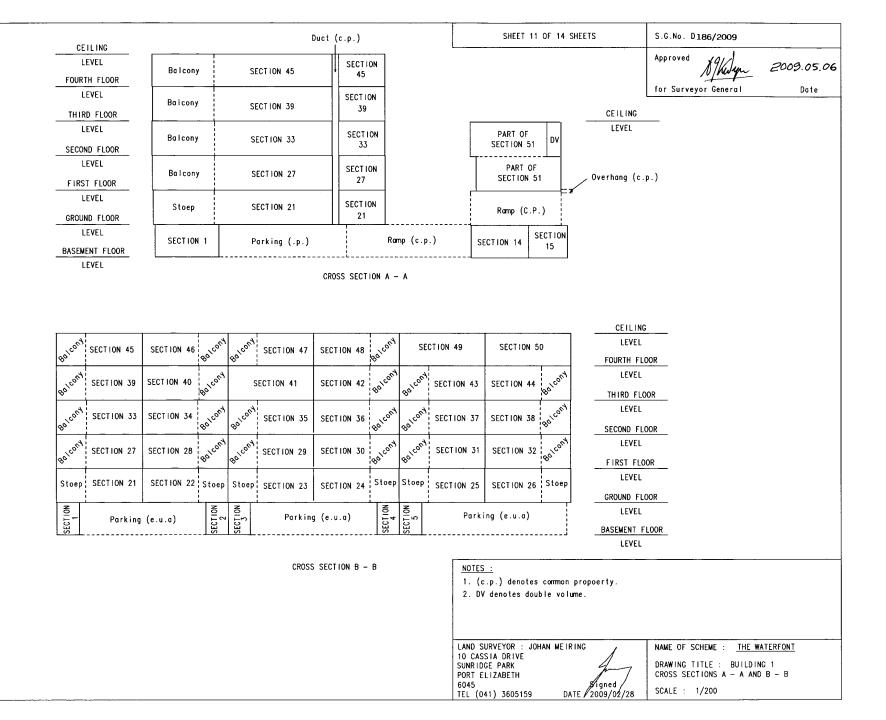




ersion 2

ersion 2





SECTION No.	FLOOR AREA ( Square metres )	PARTICIPATION QUOTA PERCENTAGE
1	10	0.2178
2	10	0.2178
3	10	0.2178
4	10	0.2178
5	10	0.2178
6	9	0.1960
7	9	0.1960
8	9	0.1960
9	9	0.1960
10	9	0.1960
11	9	0.1960
12	9	0.1960
13	9	0.1960
14	13	0.2832
15	10	0.2178
16	9	0.1960
17	8	0.1743
18	8	0.1743
19	8	0.1743
20	8	0.1743
21	134	2.9187
22	133	2.8970
23	133	2.8970
24	133	2.8970
25	134	2.9187
26	139	3.0277
27	132	2.8752
28	132	2.8752
29	132	2.8752
30	132	2.8752
31	132	2.8752
32	137	2.9841
33	132	2.8752
34	132	2.8752
35	132	2.8752
36	132	2.8752
37	132	2.8752
38	137	2.9841
39	132	2.8752
40	132	2.8752
, ,	.02	2.0,02

SHEET 14 OF 14 SHEETS		S.G.No. D 186/2009		
		Approved Shuly 2009 for Surveyor General	3.05.06	
	51,000,4054	Tot Surveyor General	Date	
SECTION No.	FLOOR AREA ( Square metres )	PARTICIPATION QUOTA PERCI	ENTAGE	
41	132	2.8752		
42	132	2.8752		
43	132	2.8752		
44	137	2.9841		
45	132	2.8752		
46	132	2.8752		
47	132	2.8752		
48	132	2.8752		
49	132	2.8752		
50	137	2.9841		
51	81	1.7643		
52	66	1.4376		
53	66	1.4376		
54	66	1.4376		
55	66	1.4376		
56	66	1.4376		
TOTAL	4591	100.0000		

Floor area measured to the median line of the boundary walls of each section to the nearest square metre except for note 3 on Sheets 5 to 10.

Signed DATE 2009/02/28

LAND SURVEYOR : JOHAN MEIRING 10 CASSIA DRIVE SUNRIDGE PARK

PORT ELIZABETH 6045 TEL (041) 3605159

NAME OF SCHEME : THE WATERFRONT

DRAWING TITLE : PARTICIPATION QUOTA

SCHEDULE









# I. PHASE 1 (Continue)

- g) Approval Surveyor General
- h) Registration deeds office
  - From land register to sectional title register
  - Sect 25 development plans
  - Certificate
  - Proposed PQ
- i) Body corporate establish
- j) Scheme management





SECTION No.	FLOOR AREA ( Square metres )	PARTICIPATION QUOTA PERCENTAGE	SECTION No.	FLOOR AREA ( Square metres )	PARTICIPATION QUOTA PERCENTAG
1	75	0.5504	48	98	0.7192
11	93	0.6825	49	98	0.7192
12	93	0.6825	50	98	0.7192
15	76	0.5578	51	98	0.7192
52	59	0.4330	5.3	98	0.7192
			54	98	0.7192
PROPOSED E	XTENSION TO S	CHEME	55	98	0.7193
			56	98	0.7192
2	98	0.7192	57	98	0.7192
3	98	0.7192	58	98	0.7192
4	98	0.7192	59	98	0.7192
5	98	0.7192	60	98	0.7192
6	98	0.7192	61	98	0.7192
7	98	0.7192	62	98	0.7193
8	98	0.7192	63	98	0.7192
9	98	0.7193	64	98	0.7192
10	98	0.7192	65	98	0.7192
13	98	0.7192	66	98	0.7192
14	98	0.7192	67	98	0.7192
16	98	0.7192	68	98	0.7192
17	98	0.7192	69	98	0.7193
18	98	0.7192	70	98	0.7192
19	98	0.7193	71	98	0.7192
20	98	0.7192	72	98	0.7192
21	98	0.7192	73	98	0.7192
22	98	0.7192	74	98	0.7192
23	98	0.7192	75	98	0.7192
24	98	0.7192	76	98	0.7193
25	98	0.7192	77	98	0.7192
26	98	0.7193	78	98	0.7192
27	98	0.7192	79	98	0.7192
28	98	0.7192	80	98	0.7192
29	98	0.7192	81	98	0.7192
30	98	0.7192	82	98	0.7192
31	98	0.7192	83	98	0.7193
32	98	0.7192	84	98	0.7192
33	98	0.7193	85	98	0.7192
34	98	0.7192	86	98	0.7192
35	98	0.7192	87	98	0.7192
36	98	0.7192	88	98	0.7192
37	98	0.7192	89	98	0.7192
38	98	0.7192	90	98	0.7193
39	98	0.7192	91	98	0.7193
40	98	0.7193	92	98	0.7192
41	98	0.7192	93	98	0.7192
42	98	0.7192	94	98	0.7192
43	98	0.7192	95	98	0.7192
44	98	0.7192	96	98	0.7192
45	98	0.7192	97	98	0.7192
46	98	0.7192	98	98	0.7193
47	98	0.7193	99	98	0.7192
47	30	0.7133	33	30	0.7132

SHEET 5		S.G.No. D			
			Approved		
			for Surveyor	General	Date
SECTION No.	FLOOR AREA ( Square metres )	PARTICIPATION QUOTA PERCENTAGE	SECTION No.	FLOOR AREA ( Square metres )	PARTICIPATION QUOTA PERCENTAGE
100	98	0.7192	123	98	0.7192
101	98	0.7192	124	98	0.7192
102	98	0.7192	125	98	0.7192
103	98	0.7192	126	98	0.7193
104	98	0.7193	127	98	0.7192
105	98	0.7192	128	98	0.7192
106	98	0.7192	129	98	0.7192
107	98	0.7192	130	98	0.7192
108	98	0.7192	131	98	0.7192
109	98	0.7192	132	98	0.7192
110	98	0.7192	133	98	0.7192
111	98	0.7193	134	98	0.7193
112	98	0.7192	135	98	0.7192
113	98	0.7192	136	98	0.7192
114	98	0.7192	137	98	0.7192
115	98	0.7192	138	98	0.7192
116	98	0.7192	139	98	0.7192
117	98	0.7192	140	98	0.7192
118	98	0.7193	55.5097	3700.00	NTERCHOLOGICAL STATE
119	98	0.7192	TOTAL	13626	100.0000
120	98	0.7192			7.2.0.000
121	98	0.7192			
122	98	0.7192			
I, Johan	Meiring , Pro	(2) (a) AND (b	veyor, hereby	y certify tha Titles Act. 	
NOTES :		to the middles Use	. ( the beaut	lanu mal la af	
1. Floor a	rea measured rest square m	to the median line etre	of the bound	lary walls of	each section to
LAND SURVEYO	OR : JOHAN ME	IRING	NAME OF SCH	HEME : FAIRE	ROOK
SUNRIDGE PAI			DRAWING TIT		ED PARTICIPATION







# II. EXTENSION OF SCHEME

- a) Developers right sect 25
  - Compliance certificate
- b) Body corporate sect 24
  - Approved building plans
  - Resolution
  - Power of attorney
  - Occupancy certificate
  - 10 % PQ deviation



#### SANDTON MANOR BODY CORPORATE PORT ELIZABETH

### SPECIAL RESOLUTION TAKEN AT A MEETING OF THE MEMBERS OF THE BODY CORPORATE OF SANDTON MANOR HELD IN PORT ELIZABETH ON THIS DAY..... RESOLVED HEREBY: That \_\_\_\_\_, ID Number \_\_\_\_ and \_\_\_\_\_, ID Number \_\_\_\_\_, married in Community of Property to each other, being the owners of Unit18 (Section......) Sandton Manor be granted permission in terms of Section 24 (3) of the Sectional Titles Act to extend the section in accordance with the approved building plans. Signed by the Chairperson and members of the Body Corporate. Chairperson Member Member Member

SCHON AREA PQ POSDEC AREA PQ POSDEC PERC 10% 10% 10% 10% 10% 10% 10% 10% 10% 10%			OLD			NEW			Annexure "	Α"
									range	range
1.0   1.0										10%
3										0.65196
4         90         0.6036         0.6036         0.50026         0.59616         -1.23         0.6636         0.5436           5         90         0.6036         0.6036         50         0.5962         0.59616         -1.23         0.66396         6.7           8         33         0.6399         0.63986         67         0.7989         0.79886         24.85         0.6398         0.5936           9         47         0.5674         0.5674         470         12.4         1.785         1.7848         -1.23         0.6398         0.573           10         124         1.4970         12.4         1.218         1.23         0.70889         0.5786           11         13         60         8.8330         0.8303         0.8303         0.8317         0.9178         1.24         1.24         1.0508           13         69         0.8330         0.8303         69         0.8227         0.9210         1.24         1.03587         0.8473           15         78         0.9417         0.9416         79         0.9300         0.9301         -1.24         1.03587         0.842           16         76         0.9317         0.9175	-									
5         90         0.6036         0.00365         90         0.9962         0.95816         -1.23         0.66396         0.9389           7         53         0.63999         0.63986         67         0.7989         0.79886         24.85         0.70839         0.79886         24.85         0.70839         0.79886         24.85         0.70839         0.79886         24.85         0.70839         0.79886         24.85         0.60390         0.722         0.707389         0.73789           9         47         0.5674	_									
6         50         0.6036         0.60396         50         0.5986         2.85         2.85         0.6399         0.63986         67         0.7889         0.79886         2.885         2.885         0.70389         0.5798           9         47         0.567         0.5674         47         0.5040         0.6039         1.23         0.70389         0.5798           10         124         1.4870         1.48704         124         1.4785         1.47648         1.24         1.6467         1.44708         1.6467         1.44708         1.6467         1.44708         1.6618         1.24         1.0586         0.5781         1.7         1.2718         1.27578         1.224         1.0586         0.5751         1.24         1.0586         0.5751         1.24         1.0586         0.7586         0.7586         0.9618         0.9180         0.9618         0.9180         1.24         1.0525         0.8618         0.9618         0.9616         1.23         0.0636         0.6036         0.00365         0.0962         0.05616         1.23         0.0636         0.6036         0.00365         0.0962         0.05616         1.23         0.0636         0.6036         0.0036         0.00365         0.00625         <										0.54324
8         53         0.6399         0.56940         47         0.50640         24         0.50698         2.1.3         0.62141         0.5759           10         124         1.4970         1.249         1.49704         124         1.4785         1.47868         1.124         1.6667         1.347           11         53         0.6399         0.83986         53         0.6319         1.2758         1.124         1.4667         1.347           13         69         0.8330         0.83303         69         0.8227         0.2270         -1.24         0.9163         0.485           15         78         0.9417         0.94169         7.8         0.9300         0.93001         -1.124         1.03256         80           16         76         0.9175         0.9175         0.9062         0.90616         -1.23         1.06296         0.8257           17         50         0.6036         0.60365         50         0.9562         0.96156         -1.23         0.66396         0.8257           18         8         0.7002         8.86816         57         0.6796         0.6915         -1.24         1.0803         0.4948           21			0.6036			0.5962	0.59616		0.66396	0.54324
99										0.57591
10										
11										1.3473
13										0.57591
14										1.16262
15										0.7497
16										
17										0.84753
19										0.54324
20	18	58	0.7002	0.70023	58	0.6915	0.69155	-1.24	0.77022	0.63018
22										0.891
22										0.61938
23   50   0.6036   0.60365   50   0.5962   0.59616   -1.23   0.66396   0.5432   0.7438   0.5759   0.5753   0.										
24   53   0.6399   0.63986   53   0.6319   0.63193   -1.25   0.70389   0.5758										0.78237
1.626   1.627   1.2918   1.29180   1.07   1.2758   1.27578   1.24   1.42008   1.1626   1.626   1.627   1.626   1.627   1.628   1.626   1.627   1.628   1.626   1.628   1.626   1.628   1.626   1.628   1.626   1.628										0.57591
27	25	107		1.29180	107			-1.24		1.16262
28										0.61938
112										0.47808
30										
31										
32 65 0.7847 0.78474 65 0.7750 0.77501 -1.24 0.86317 0.7062 33 58 0.7062 0.70023 88 0.6915 0.69155 -1.24 0.77022 0.6301 34 111 1.3401 1.34009 123 1.4904 1.49040 11.22 1.47411 1.2666 35 78 0.9417 0.94169 78 0.9300 0.93001 -1.24 1.03587 0.8475 36 80 0.9658 0.96583 80 0.9539 0.95386 16.09 0.75702 0.6193 38 57 0.6882 0.68816 67 0.7989 0.79886 16.09 0.75702 0.6193 38 71 0.572 0.85718 71 0.8465 0.84655 -1.25 0.94292 0.7744 40 63 0.7606 0.76059 77 0.9181 0.91809 20.71 0.83666 0.6845 41 80 0.9658 0.96583 108 1.2877 1.28771 33.33 1.06238 0.8892 42 179 1.5574 1.55741 129 1.5381 1.53809 -1.24 1.72645 1.4125 43 130 1.5695 1.56948 130 1.5500 1.55002 -1.24 1.72645 1.4125 44 130 1.5695 1.56948 130 1.5500 1.55002 -1.24 1.72645 1.4125 45 131 1.5816 1.58155 131 1.5619 1.56194 -1.25 1.73976 1.4234 46 131 1.5816 1.58155 131 1.5619 1.56194 -1.25 1.73976 1.4234 47 131 1.5816 1.58155 131 1.5619 1.56194 -1.25 1.73976 1.4234 48 132 1.5936 1.59363 132 1.5739 1.57386 -1.24 2.7721 1.4245 48 132 1.5936 1.59363 132 1.5739 1.57386 -1.24 2.7722 1.75296 1.4344 49 153 1.8472 1.84716 153 1.8243 1.82425 -1.24 2.03192 1.6624 49 153 1.8472 1.84716 153 1.8839 1.88387 -1.24 2.03192 1.6624 50 179 2.1611 2.16105 179 2.1343 2.13426 -1.24 2.03192 1.6624 51 158 1.9075 1.90752 158 1.8839 1.88387 -1.24 2.09825 1.7167 55 183 2.2093 2.20934 183 2.1819 2.1839 1.83887 -1.24 2.09825 1.7167 56 161 1.9437 1.93167 160 1.9077 1.90771 -1.24 2.14287 1.7356 66 1.59347 1.93167 160 1.9077 1.90771 -1.24 2.11156 1.7276 67 159 1.9196 1.91959 159 1.8958 1.89599 -1.24 2.11156 1.7276 68 159 1.9196 1.91959 159 1.8958 1.89599 -1.24 2.11156 1.7276 68 159 1.9196 1.91959 159 1.8958 1.89599 -1.24 2.11156 1.7276 68 159 1.9196 1.91959 159 1.8958 1.89599 -1.24 2.11156 1.7276 68 159 1.9196 1.91959 159 1.8958 1.89599 -1.24 2.11156 1.7276 68 159 1.9196 1.91959 159 1.8958 1.89599 -1.24 2.11156 1.7276 68 159 1.9196 1.91959 159 1.8958 1.89599 -1.24 2.11156 1.7276 68 159 1.9196 1.91959 159 1.8958 1.89599 -1.24 2.11156 1.7276 69 152 1.8351 1.83508 152 1.8133 1.83837 -1.24 2.0861 1.6515 70 217										0.54324
111   1.3401   1.34009   125   1.4904   1.49040   1.122   1.47411   1.2660     35	32	65		0.78474	65			-1.24		0.70623
35										0.63018
37   57   0.6882   0.96583   80   0.9539   0.95386   -1.23   1.06238   0.8692   0.8693   38   57   0.6882   0.68816   67   0.7989   0.79886   16.09   0.75702   0.6193   38   57   0.6882   0.68816   67   0.7989   0.79886   16.09   0.75702   0.6193   39   71   0.8572   0.85718   71   0.8465   0.84655   -1.25   0.94292   0.7714   0.0   63   0.7606   0.76059   77   0.9181   0.91809   20.71   0.8566   0.68816   0.76059   77   0.9181   0.91809   20.71   0.8566   0.68816   0.8465   0.76059   41   80   0.9658   0.96583   108   1.2877   1.28771   33.33   1.06238   0.8692   42   179   1.5574   1.55741   129   1.55811   1.55809   -1.24   1.71314   1.4016   44   130   1.5695   1.56948   130   1.5500   1.55002   -1.24   1.72645   1.4125   44   130   1.5695   1.56948   130   1.5500   1.55002   -1.24   1.72645   1.4125   44   131   1.5816   1.58155   131   1.5619   1.56194   -1.25   1.73976   1.4234   46   131   1.5816   1.58155   131   1.5619   1.56194   -1.25   1.73976   1.4234   47   131   1.5816   1.58155   131   1.5619   1.56194   -1.25   1.73976   1.4234   49   153   1.8472   1.84716   153   1.8243   1.82425   -1.24   2.03192   1.6624   4.9   153   1.8472   1.84716   153   1.8243   1.82425   -1.24   2.03192   1.6624   50   179   2.1611   2.16105   179   2.1333   2.1339   1.83837   -1.24   2.09825   1.7167   53   1.5619   1.56194   -1.24   2.09825   1.7167   53   1.5619   1.56194   -1.24   2.03192   1.6624   1.550   1.55002   1.55002   1.24   1.7246   1.4345   1.5619   1.56194   -1.25   1.73976   1.4234   1.5619   1.56194   -1.25   1.73976   1.4234   1.5619   1.56194   -1.25   1.73976   1.4234   1.5619   1.56194   -1.25   1.73976   1.4234   1.5619   1.56194   -1.25   1.73976   1.4234   1.5619   1.56194   -1.25   1.73976   1.4234   1.5619   1.56194   -1.25   1.73976   1.4234   1.5619   1.56194   -1.25   1.73976   1.4234   1.5619   1.56194   -1.25   1.73976   1.4234   1.5619   1.56194   -1.25   1.73976   1.4234   1.56194   -1.25   1.73976   1.4234   1.56194   -1.25   1.73976   1.4234   1.56194   -1.25   1.73976   1.4234										
38   57   0.6882   0.68816   67   0.7989   0.79886   16.09   0.75702   0.6193   38   57   0.6882   0.68916   67   0.7989   0.79886   16.09   0.75702   0.6193   39   71   0.8572   0.85718   71   0.8465   0.84655   -1.25   0.94292   0.7714   40   63   0.7606   0.76059   77   0.9181   0.91809   20.71   0.8366   0.6845										
38   57   0.8882   0.68816   67   0.7989   0.79886   16.09   0.75702   0.6193     39   71   0.8572   0.85718   71   0.8465   0.84655   -1.25   0.9422   0.7714     40   63   0.7606   0.76059   77   0.9181   0.91809   20.71   0.83666   0.68465     41   80   0.9658   0.96583   108   1.2877   1.28771   33.33   1.06238   0.8892     42   129   1.5574   1.55741   129   1.5381   1.53809   1.24   1.71314   1.4016     43   130   1.5695   1.56948   130   1.5500   1.55002   -1.24   1.72645   1.4125     44   130   1.5695   1.56948   130   1.5500   1.55002   -1.24   1.72645   1.4125     45   131   1.5816   1.58155   131   1.5619   1.56194   -1.25   1.73976   1.4234     46   131   1.5816   1.58155   131   1.5619   1.56194   -1.25   1.73976   1.4234     47   131   1.5816   1.58155   131   1.5619   1.56194   -1.25   1.73976   1.4234     48   132   1.5936   1.59363   132   1.5739   1.57386   -1.24   1.75296   1.4342     49   153   1.8472   1.84716   153   1.8243   1.82425   -1.24   2.09192   1.6624     50   179   2.1611   2.16105   179   2.1343   2.13426   -1.24   2.07372   1.6624     51   1.58   1.9075   1.90752   158   1.8839   1.88387   -1.24   2.09825   1.7167     52   158   1.9075   1.90752   158   1.8839   1.88387   -1.24   2.09825   1.7167     53   160   1.9337   1.91567   160   1.9077   1.90771   -1.24   2.12487   1.7385     54   158   1.9075   1.90752   158   1.8839   1.88387   -1.24   2.09825   1.7167     55   153   2.093   2.0934   183   2.1819   2.18195   1.24   2.04032   1.9838     56   161   1.9437   1.94374   161   1.9196   1.91964   -1.24   2.11156   1.7276     60   19   1.9156   1.91599   159   1.8958   1.89579   -1.24   2.11156   1.7276     61   139   1.6781   1.67814   139   1.6573   1.65733   -1.24   2.11156   1.7276     61   139   1.6781   1.67814   139   1.6573   1.65733   -1.24   2.11156   1.7276     61   139   1.6781   1.91597   159   1.8958   1.89579   -1.24   2.11156   1.7276     62   143   1.7264   1.72643   143   1.7050   1.90771   -1.24   2.12487   1.7385     64   160   1.9317   1.93167   160   1.9										0.61938
40 63 0.7606 0.76059 77 0.9181 0.91809 20.71 0.83666 0.6845 41 80 0.9688 0.96883 108 1.2877 1.28771 33.33 1.06238 0.8692 42 129 1.5574 1.55741 129 1.5381 1.53809 -1.24 1.73134 1.40164 43 130 1.5695 1.56948 130 1.5500 1.55002 -1.24 1.72645 1.4125 44 130 1.5695 1.56948 130 1.5500 1.55002 -1.24 1.72645 1.4125 45 131 1.5816 1.8155 131 1.5619 1.56194 -1.25 1.73976 1.4234 46 131 1.5816 1.58155 131 1.5619 1.56194 -1.25 1.73976 1.4234 47 131 1.5816 1.58155 131 1.5619 1.56194 -1.25 1.73976 1.4234 48 132 1.5936 1.59363 132 1.5739 1.57386 -1.24 1.75296 1.4342 49 153 1.4472 1.84716 153 1.8243 1.8243 1.8245 -1.24 1.75296 1.4342 50 179 2.1611 2.16105 179 2.1533 2.13426 -1.24 2.03192 1.6624 51 158 1.9075 1.90752 158 1.8839 1.88387 -1.24 2.09825 1.7167 52 158 1.9075 1.90752 158 1.8839 1.88387 -1.24 2.09825 1.7167 53 160 1.9317 1.93167 160 1.9077 1.90771 -1.24 2.12487 1.7385 55 183 2.0093 2.20934 183 2.1819 2.18195 1.24 2.4032 1.9885 56 161 1.9437 1.94374 161 1.9196 1.91964 -1.24 1.213807 1.7493 57 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 60 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 61 1.393 1.6781 1.67814 139 1.6573 1.65733 -1.24 2.09825 1.7167 63 161 1.9337 1.93167 160 1.9077 1.90771 -1.24 2.11156 1.7276 64 160 1.9317 1.93167 160 1.9077 1.90771 -1.24 2.11156 1.7276 65 154 1.852 1.8523 1.54 1.8559 1.424 2.00825 1.7167 66 169 1.9317 1.93167 160 1.9077 1.90771 -1.24 2.11156 1.7276 67 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 68 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 68 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 68 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 68 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 68 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 68 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 68 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 68 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 67 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 68 15	38	57		0.68816	67			16.09		0.61938
41   80   0.9558   0.96583   108   1.2877   1.2877   1.33.3   1.06238   0.8692   42   129   1.5574   1.55741   129   1.5381   1.53809   -1.24   1.71341   1.4016   43   130   1.5695   1.56948   130   1.5500   1.55002   -1.24   1.72645   1.4125   44   130   1.5695   1.56948   130   1.5500   1.55002   -1.24   1.72645   1.4125   44   130   1.5695   1.56948   130   1.5500   1.55002   -1.24   1.72645   1.4125   45   131   1.5816   1.58155   131   1.5619   1.56194   -1.25   1.73976   1.4234   46   131   1.5816   1.58155   131   1.5619   1.56194   -1.25   1.73976   1.4234   47   131   1.5816   1.59363   132   1.5739   1.57386   -1.24   1.75296   1.4342   49   153   1.8472   1.84716   153   1.8243   1.82425   -1.24   2.03192   1.6624   49   153   1.8472   1.84716   153   1.8243   1.83425   -1.24   2.03192   1.6624   50   1.9373   1.93167   160   1.9077   1.90771   -1.24   2.12487   1.73856   1.5345   1.5619   1.56194   -1.25   1.73976   1.4234   1.5619   1.56194   -1.25   1.73976   1.4234   49   153   1.8472   1.84716   153   1.8243   1.83425   -1.24   2.03192   1.6624   1.56194   -1.25   1.75976   1.4234   1.5619   1.56194   -1.24   2.03192   1.6624   1.56194   -1.24   2.03192   1.6624   1.56194   -1.24   2.03192   1.6624   1.56194   -1.24   2.03192   1.6624   1.56194   -1.24   2.03192   1.6624   1.56194   -1.24   2.03192   1.6624   1.56194   -1.24   2.03192   1.6624   1.56194   -1.24   2.03192   1.6624   1.56194   -1.24   2.03192   1.7675   1.56194   -1.24   2.03192   1.7675   1.56194   -1.24   2.03192   1.7675   1.56194   -1.24   2.03192   1.7675   1.56194   -1.24   2.03192   1.7675   1.56194   -1.24   2.03192   1.7675   1.56194   -1.24   2.03192   1.7675   1.56194   -1.24   2.03192   1.7675   1.56194   -1.24   2.03192   1.7675   1.56194   -1.24   2.03192   1.7675   1.56194   -1.24   2.03192   1.7675   1.56194   -1.24   2.03192   1.7675   1.56194   -1.24   2.03192   1.7675   1.56194   -1.24   2.03192   1.7675   1.56194   -1.24   2.03192   1.7675   1.56194   -1.24   2.03192   1.7675   1.56194   -1.24   2.03192   1.7										0.77148
42         1.29         1.5574         1.55741         1.29         1.5381         1.53809         -1.24         1.71314         1.4016           43         130         1.5695         1.56948         130         1.5500         1.55002         -1.24         1.72645         1.4125           44         130         1.5695         1.56948         130         1.5500         1.55002         -1.24         1.72645         1.4125           45         131         1.5816         1.58155         131         1.5619         1.56194         -1.25         1.73976         1.4234           47         131         1.5816         1.58155         131         1.5619         1.56194         -1.25         1.73976         1.4234           48         132         1.5936         1.59363         132         1.5739         1.5739         1.57386         -1.24         1.75296         1.4342           49         153         1.8472         1.84716         153         1.8243         1.8243         -1.24         2.09192         1.6465           50         179         2.1611         2.16165         179         2.1343         2.13426         -1.24         2.09192         1.7675										
43         130         1.5695         1.56948         130         1.55002         -1.24         1.72645         1.4125           44         130         1.5695         1.56948         130         1.5500         1.55002         -1.24         1.72645         1.4125           45         131         1.5816         1.58155         131         1.5619         1.56194         -1.25         1.73976         1.4234           46         131         1.5816         1.58155         131         1.5619         1.56194         -1.25         1.73976         1.4234           48         132         1.5936         1.59363         132         1.5739         1.57386         -1.24         1.75296         1.4342           49         133         1.8472         1.84716         153         1.8243         1.82425         -1.24         2.09192         1.6624           50         179         2.1611         2.16105         179         2.1333         2.13424         -1.24         2.09825         1.7167           51         1.819075         1.90752         158         1.8839         1.88387         -1.24         2.09825         1.7167           53         160         1.9317										1.40166
131	43									1.41255
131										1.41255
131										1.42344
48         132         15936         159363         132         15739         157386         -1.24         1.75296         1.4342           49         153         18472         1.84716         153         1.8243         1.82425         -1.24         2.03192         1.6624           50         179         2.1611         2.16105         179         2.1343         2.13426         -1.24         2.03721         1948           51         158         1.9075         19075         158         1.8839         1.88387         -1.24         2.09825         1.7167           53         160         1.9317         1.93167         160         1.9077         1.90771         -1.24         2.09825         1.7167           54         158         1.9075         1.90572         158         1.8839         1.88387         -1.24         2.09825         1.7167           55         183         2.0393         1.832         1.8199         2.18195         1.124         2.12447         1.7385           56         161         1.9437         1.94374         161         1.9196         1.91964         -1.24         2.13807         1.7426           57         159         1.9195										
1847  1847										
50         179         2.1611         2.16105         179         2.1343         2.13426         -1.24         2.37721         1.9445           51         158         1.9075         1.90752         158         1.8839         1.88387         -1.24         2.09825         1.7167           52         158         1.9075         1.9072         158         1.8839         1.88387         -1.24         2.09825         1.7167           53         160         1.9317         1.99167         160         1.9077         1.9172         -1.24         2.12487         1.7385           54         158         1.9307         1.9072         1.81839         1.88387         -1.24         2.124023         1.9883           55         183         2.2093         2.20934         183         2.1819         -1.24         2.13807         1.7493           57         159         1.9196         1.91959         159         1.8958         1.8959         -1.24         2.11156         1.7268           58         159         1.9156         1.91599         159         1.8958         1.89597         -1.24         2.11156         1.7276           60         159         1.9156 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.66248</td></t<>										1.66248
52	50									1.94499
53         160         19317         1,93167         160         1,9077         1,90771         -1,24         2,12487         1,7385           54         188         1,5075         1,90752         188         1,8839         1,88387         -1,24         2,09825         1,7167           55         188         2,0934         183         2,1819         2,18195         1,24         2,43023         1,9885           56         161         1,9437         1,94374         161         1,9196         1,91964         -1,24         2,13807         1,7276           57         159         1,91959         159         1,8958         1,89579         -1,24         2,11156         1,7276           58         159         1,91599         159         1,8958         1,89579         -1,24         2,11156         1,7276           60         159         1,91599         159         1,8958         1,89579         -1,24         2,11156         1,7276           61         139         1,6781         1,67814         139         1,6573         1,65733         -1,24         1,84591         1,5102           62         143         1,7264         1,72643         143         1,7										1.71675
54         158         15075         1.90752         158         1.8899         1.88187         -1.24         2.09825         1.7167           55         183         2.2093         2.09944         183         2.1819         1.218195         -1.24         2.49023         1.9883           56         161         1.9137         1.94374         161         1.9196         1.9196         -1.24         2.11807         1.7767           57         159         1.9196         1.91959         159         1.8958         1.89597         -1.24         2.11156         1.7276           59         158         1.9075         1.90752         158         1.8839         1.88387         -1.24         2.09825         1.7167           60         159         1.9196         1.91959         159         1.8893         1.88387         -1.24         2.09825         1.7167           60         159         1.9196         1.91959         159         1.8893         1.88387         -1.24         2.09825         1.7167           61         139         1.6781         1.6781         149         1.6573         1.65733         1.6273         1.24         2.148591         1.5102										1.71675
55         183         2.2093         2.20934         183         2.1819         2.18195         -1.24         2.43023         1.9883           56         161         1.9437         1.94374         161         1.9196         -1.24         2.18207         1.7493           57         159         1.9196         1.91959         159         1.8958         1.89579         -1.24         2.11156         1.7276           58         159         1.9196         1.91959         159         1.8983         1.89379         -1.24         2.11156         1.7276           60         159         1.9196         1.91959         159         1.8958         1.89579         -1.24         2.11156         1.7276           60         159         1.9196         1.91959         159         1.8958         1.89579         -1.24         2.11156         1.7276           61         139         1.6781         1.91959         159         1.8958         1.89579         -1.24         2.11156         1.7276           62         1.43         1.7264         1.7684         139         1.6573         1.6573         -1.24         1.84591         1.5102           63         161										
56         161         19437         1.94374         161         1.9196         1.91964         -1.24         2.13807         1.7493           57         159         1.9196         1.91959         159         1.8958         1.89579         -1.24         2.11156         1.7276           58         159         1.9195         199         1.8958         1.89579         -1.24         2.11156         1.7276           59         158         1.9075         1.9579         158         1.88381         -1.24         2.09825         1.7167           60         159         1.91959         189         1.8858         1.89597         -1.24         2.09825         1.7166           61         139         1.6781         1.67814         139         1.6573         1.65733         -1.24         1.84591         1.5102           62         143         1.7264         1.72643         143         1.7050         1.7050         -1.24         1.84591         1.5102           63         161         1.9437         1.94316         161         1.9106         -1.9077         1.90771         -1.24         2.12487         1.7385           65         1.54         1.8592					l					1.98837
58         159         1.9196         1.91959         159         1.8988         1.89379         -1.24         2.11156         1.7276           59         138         1.9075         158         1.8838         1.88387         -1.24         2.09825         1.7167           60         159         1.9196         1.91959         159         1.8958         1.89579         -1.24         2.09825         1.7167           61         139         1.6781         1.67814         139         1.6573         1.65733         -1.24         1.84591         1.5102           62         143         1.7264         1.72643         143         1.7050         1.70502         -1.24         1.89904         1.5533           63         161         1.9347         1.94374         161         1.9196         1.91964         -1.24         2.18807         1.7486           64         160         1.9317         1.93167         160         1.9077         1.024         2.12487         1.7385           65         154         1.8592         1.89159         1.99         1.8958         1.89579         -1.24         2.12487         1.7385           66         160         1.9317 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.74933</td></td<>										1.74933
59         158         18075         190752         158         1.8819         1.881887         -1.24         2.09825         1.7167           60         159         1.91959         159         1.8958         1.89579         -1.24         2.11156         1.7276           61         139         1.6781         1.67814         139         1.6573         1.65733         -1.24         1.84591         1.5106           62         143         1.7264         1.72643         143         1.7050         1.976         -1.24         1.84591         1.5537           63         161         1.9317         1.93167         160         1.9077         1.90771         -1.24         2.12487         1.7385           65         1.54         1.8592         1.85923         154         1.8362         1.83618         -1.24         2.12487         1.7385           66         160         1.9317         1.93167         160         1.9077         1.90771         -1.24         2.12487         1.7385           67         159         1.9186         1.91959         159         1.89858         1.89579         -1.24         2.11467         1.7276           68         159 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.72764</td></td<>										1.72764
60 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 61 139 1.6781 1.67814 139 1.6573 1.6573 -1.24 1.84591 1.5102 62 143 1.7264 1.72643 143 1.7050 1.70502 -1.24 1.84591 1.5102 63 161 1.9437 1.94374 161 1.9196 1.91964 -1.24 2.13807 1.7493 64 160 1.9317 1.93167 160 1.9077 1.90771 -1.24 2.12487 1.7385 65 154 1.8592 1.85923 154 1.8362 1.83618 -1.24 2.04512 1.6732 66 160 1.9317 1.93167 160 1.9077 1.90771 -1.24 2.12487 1.7385 67 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 68 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 69 152 1.8351 1.83508 152 1.8123 1.81233 -1.24 2.01861 1.6515 70 217 2.6138 2.61382 217 2.5873 2.58734 -1.24 2.01861 1.6515 71 165 1.9920 1.99203 165 1.9673 1.96733 -1.24 2.1912 1.792 72 162 1.9558 1.95581 162 1.9316 1.93156 -1.24 2.1912 1.792 73 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 74 158 1.9075 1.90752 158 1.8839 1.88387 -1.24 2.09825 1.7167 75 160 1.9317 1.93167 160 1.90771 -1.24 2.09825 1.7167 76 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 76 159 1.9196 1.91959 159 1.88958 1.89579 -1.24 2.11156 1.7276 76 159 1.9196 1.91959 159 1.88958 1.89579 -1.24 2.11156 1.7276										1.72764
61 139 1.6781 1.67814 139 1.6573 1.65733 -1.24 1.84591 1.5102 62 143 1.7264 1.72643 143 1.7050 1.70502 -1.24 1.89904 1.5537 63 161 1.9437 1.94374 161 1.9196 1.91964 -1.24 2.138907 1.7493 64 160 1.9317 1.93167 160 1.9077 1.90771 -1.24 2.12487 1.7385 65 1.54 1.8592 1.85923 1.54 1.8362 1.83618 -1.24 2.04512 1.6732 66 160 1.9317 1.93167 160 1.9077 1.90771 -1.24 2.12487 1.7385 67 1.91 1.9196 1.91959 1.99 1.8958 1.89579 -1.24 2.11356 1.7276 68 1.99 1.9186 1.91959 1.99 1.8958 1.89579 -1.24 2.11156 1.7276 69 1.92 1.8351 1.83508 1.92 1.8123 1.81233 -1.24 2.01861 1.6515 70 217 2.6198 2.61982 217 2.5873 2.58734 -1.24 2.11156 1.7276 71 165 1.9920 1.99203 165 1.9367 1.9673 1.96733 -1.24 2.11151 1.6515 72 162 1.9558 1.95581 162 1.9316 1.93156 -1.24 2.11151 1.7602 73 1.99 1.9186 1.91959 1.99 1.8958 1.89579 -1.24 2.11151 1.7602 74 1.58 1.9075 1.90752 158 1.8839 1.88387 -1.24 2.1912 1.792 75 160 1.9317 1.93167 160 1.9077 1.90771 -1.24 2.12487 1.7385 76 1.99 1.9196 1.91959 1.99 1.8958 1.89587 -1.24 2.11515 1.7267 76 1.99 1.9196 1.91959 1.99 1.8958 1.89587 -1.24 2.12156 1.7276 76 1.99 1.9196 1.91959 1.99 1.8958 1.89587 -1.24 2.12156 1.7276 76 1.99 1.9196 1.91959 1.99 1.8958 1.89587 -1.24 2.12156 1.7276 76 1.99 1.9196 1.91959 1.99 1.8958 1.89587 -1.24 2.12156 1.7276										
62 143 1.7264 1.72643 143 1.7050 1.70502 -1.24 1.89904 1.5537 63 161 1.9437 1.94374 161 1.9196 1.91964 -1.24 2.13807 1.7493 64 160 1.9317 1.93167 160 1.9077 1.90771 -1.24 2.12487 1.7385 65 154 1.8592 1.85923 154 1.8362 1.83618 -1.24 2.04512 1.6732 66 160 1.9317 1.93167 160 1.9077 1.90771 -1.24 2.12487 1.7385 67 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 68 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 69 152 1.8351 1.83508 152 1.8123 1.81233 -1.24 2.01861 1.6515 70 217 2.6198 2.61982 217 2.5873 2.58734 -1.24 2.18126 1.6515 71 165 1.9920 1.99203 165 1.9673 1.96733 -1.24 2.1912 1.792 72 162 1.9558 1.95581 162 1.9316 1.9316 -1.24 2.1912 1.792 73 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7602 73 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7602 74 158 1.9075 1.90752 158 1.88381 1.88387 -1.24 2.09825 1.7167 75 160 1.9317 1.93167 160 1.9077 1.90771 -1.24 2.12156 1.7385 76 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7385										1.51029
63         161         1.9437         1,94374         161         1.9196         1.91964         -1.24         2.13807         1,7493           64         160         1.9317         1.93167         160         1.9077         1.90771         -1.24         2.12487         1.7385           65         154         1.8592         1.85923         154         1.83618         -1.24         2.04512         1.6736           66         160         1.9317         1.93167         160         1.9077         1.90771         -1.24         2.12487         1.7385           67         159         1.9196         1.91959         159         1.8958         1.89579         -1.24         2.11156         1.7276           68         159         1.81958         1.89579         -1.24         2.11156         1.7276           69         152         1.8351         1.83508         152         1.8123         -1.24         2.01861         1.6515           70         217         2.6198         2.61982         217         2.5873         2.58734         -1.24         2.1912         1.792           72         162         1.9558         1.95581         162         1.9316					200				M10100M	1.55376
65         154         1.8592         1.85923         154         1.8362         1.83618         -1.24         2.04512         1.6732           66         160         1.9317         1.99167         160         1.9077         1.910771         -1.24         2.12487         1.7385           67         199         1.9196         1.91959         159         1.8958         1.89579         -1.24         2.11156         1.7276           68         1.59         1.91959         159         1.8958         1.89579         -1.24         2.11156         1.7276           69         152         1.8351         1.83508         152         1.8123         -1.24         2.01861         1.6515           70         217         2.6198         2.61982         217         2.5873         2.58734         -1.24         2.01861         1.6515           71         165         1.9920         1.99203         165         1.9673         1.96733         -1.24         2.1912         1.792           72         162         1.9558         1.95581         162         1.9316         1.93166         -1.24         2.1912         1.760           73         159         1.9169         1	63	161			161			-1.24		1.74933
66         160         19317         1,93167         160         1,9077         1,90771         -1,24         2,12487         1,7385           67         159         1,9196         1,91959         159         1,8958         1,89579         -1,24         2,11156         1,7276           68         159         1,91959         159         1,8958         1,89579         -1,24         2,11156         1,7276           69         152         1,8351         1,83508         152         1,8123         1,24         2,01861         1,6515           70         217         2,6198         2,61982         217         2,5873         2,58734         -1,24         2,01861         1,6515           71         165         1,9520         1,99203         165         1,9673         1,96733         -1,24         2,1912         1,762           72         162         1,9558         1,95581         162         1,9316         1,93156         -1,24         2,15138         1,7602           73         159         1,9169         1,9159         1,9858         1,89579         -1,24         2,1156         1,7602           74         158         1,9075         1,90752         1										1.73853
67 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 68 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 69 152 1.8351 1.83508 152 1.8123 1.81233 -1.24 2.01861 1.6515 70 217 2.6198 2.61982 217 2.5873 2.58734 -1.24 2.88178 2.3578 71 165 1.9920 1.99203 165 1.9673 1.96733 -1.24 2.1912 1.792 72 162 1.9558 1.95581 162 1.9316 1.93156 -1.24 2.1912 1.792 73 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 74 158 1.9075 1.90752 158 1.8839 1.88387 -1.24 2.09825 1.7167 75 160 1.9317 1.93167 160 1.9077 1.90771 -1.24 2.12487 1.7385 76 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276					l					1.67328
68         159         19196         1.91959         159         1.8958         1.89579         -1.24         2.11156         1.7276           69         152         1.8351         1.83508         152         1.8123         -1.24         2.01861         1.6515           70         217         2.6198         2.61982         217         2.5873         2.58734         -1.24         2.81818         2.3578           71         165         1.9920         1.99203         165         1.96733         -1.24         2.1912         1.792           72         162         1.9558         1.95581         162         1.9316         1.93166         -1.24         2.11136         1.7602           73         159         1.9186         1.91959         159         1.8958         1.8959         -1.24         2.11156         1.7602           74         158         1.9075         1.90752         158         1.8839         1.88387         -1.24         2.09825         1.7167           75         160         1.9316         1.91567         160         1.9077         1.90771         -1.24         2.11287         1.7385           76         159         1.9156         1.9										
69         152         1.8351         1.83098         152         1.8123         1.1233         1.124         2.01861         1.6515           70         217         2.6198         2.61982         217         2.5873         2.58734         -1.24         2.8178         2.3578           71         165         1.9920         1.99203         165         1.9673         1.96733         -1.24         2.1912         1.792           72         162         1.9558         1.95581         162         1.9316         1.93156         -1.24         2.15138         1.7602           73         159         1.9195         1.9918         1.8958         1.8959         -1.24         2.1155         1.7267           74         158         1.9075         1.90752         158         1.8839         1.88387         -1.24         2.09825         1.7167           75         160         1.9316         1.91959         1.997         1.90771         -1.24         2.12487         1.7385           76         159         1.9196         1.91959         1.998         1.89598         1.8959         -1.24         2.11156         1.2762										1.72764
71         165         1.9920         1.99203         165         1.9673         1.96733         -1.24         2.1912         1.792           72         162         1.9558         1.9581         162         1.9316         1.93156         -1.24         2.15138         1.7602           73         159         1.9196         1.91959         159         1.8958         1.8959         -1.24         2.11156         1.7267           74         158         1.9075         1.90752         158         1.8839         1.88387         -1.24         2.09825         1.7167           75         160         1.9317         1.93167         160         1.9077         1.90771         -1.24         2.11287         1.7385           76         159         1.9196         1.91959         159         1.8958         1.89599         -1.24         2.11156         1.7276										1.65159
72 162 19558 1.95581 162 1.9316 1.93156 -1.24 2.15138 1.7602 73 159 1.9166 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 74 158 1.9075 1.90752 158 1.8839 1.88387 -1.24 2.09825 1.7167 75 160 1.9317 1.93167 160 1.9077 1.0124 2.12487 1.7385 76 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276										2.35782
73 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276 74 158 1.9075 1.90752 158 1.8839 1.88387 -1.24 2.09825 1.7167 75 160 1.9317 1.93167 160 1.9077 1.90771 -1.24 2.112487 1.7385 76 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276										1.7928
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76 159 1.9196 1.91959 159 1.8958 1.89579 -1.24 2.11156 1.7276										1.73853
8283 8387		159			159					1.72764
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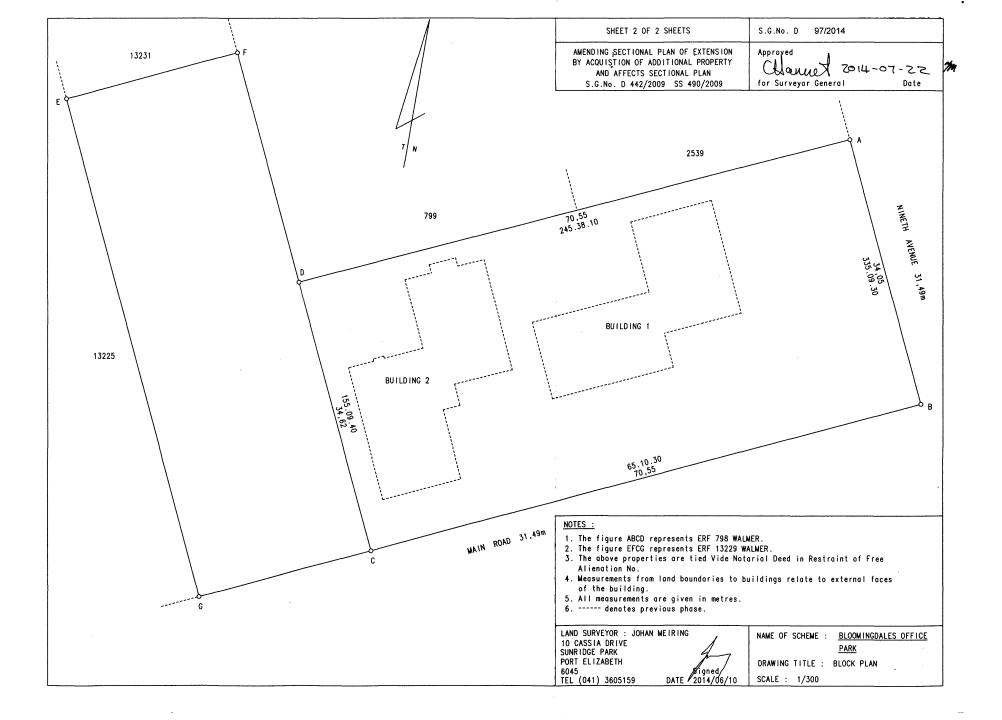


### III. CONSOLIDATION AND SUBDIVISION OF SECTIONS

- IV. ACQUISITION OF COMMON PROPERTY
- V. DESTRUCTION OF SECTIONS



SECTIONAL PLAN No.SS	SHEET 1	S.G. No.D 97/2014
Registered at CAPE TOWN .	OF	Approved
Registrar of Deeds Date:	2 SHEETS	for Surveyor - General Date: 2014-07 -22
AMENDING SECTIONAL PLAN OF EXTEN IN TERMS OF SECTION 26 AND AFFE		
NAME OF SCHEME : BLOOMINGDALE	S OFFICE PARK	
DESCRIPTION OF LAND ACCORDING TO DE 1. ERF 798 WALMER - in extent 2422 2. ERF 13229 WALMER - in extent 14	(two four two two)	square metres.
Both situate in the Nelson Mandelo Administrative District of Port El		
DIAGRAM No.: 1. S.G.No. 5543/ 2. S.G.No. 580/20		
NAME OF LOCAL AUTHORITY: NELSO	N MANDELA BAY METROP	OLITAN MUNICIPALITY
DESCRIPTION OF BUILDINGS : 2  1. Buildings 1 and 2 as shown on S.G.No. D 442/2009 SS 490/20		
ENCROACHMENTS ON THE LAND :_	Nil	
CAVEAT IN RESPECT OF EXTENSION OF right in terms of Section 25 to e		·
CERTIFICATE:  I, Johan Meiring, hereby certify inclusive of this sectional plan the provisions of the Sectional T	from survey in accor	dance with
thereunder	1 -	and the regulations from
Date : 2011/10/31 Signed . Registration Number PLS 0393 - D		•
Address : 10 CASSIA DRIVE , SUNRII	OGE PARK , PORT ELIZA	ABETH , 6045
Survey Records No. Comp 230/2014	ilations : B0-8CC/Y (2066)	



	COPY

SHEET 7 OF	7 SHEETS	S.G.No. D 296/2000			
OF CANCELLATIO	CTIONAL PLAN ON OF SECTION 4 ECTIONAL PLAN 993 SS 311/1993	Approved,  7. 2. 2. 2. 2. 3. for Surveyor General	2000 · 09 · 05 Date		
SECTION No.	FLOOR AREA (Square metres)	PARTICIPATION QUOTA PERCENTAGE			
1	183	14, 2857			
2	177	13, 8174			
3	183	14, 2857			
5	186	14, 5199			
6	183	14, 2857			
7	183	14, 2857			
8	186	14, 5199			
inclusive of this s	sectional plan from su	100,0000  have prepared sheet 7 rvey in accordance with th			
Date: 2000/08/10	Signed				
Registration Number	PLS 0393 - D				

#### NOTES :

Floor area measured to the median line of the boundary walls of each section to the nearest square metre

LAND SURVEYOR : JOHAN MEIRING
11 CASSIA DRIVE
SUNRIDGE PARK
PORT ELIZABETH
6045
TEL 3605159
DATE 2000

Signed DATE 2000/08/10

NAME OF SCHEME : THE BREAKERS

DRAWING TITLE : PARTICIPATION QUOTA SCHEDULE







## **CONCLUSION:**

 I once read a piece about management guru Peter Drucker, who is frequently quoted as saying "you can't manage, what you can't measure". I hope that we have given you a very small glimpse of the actual process involved in the measurement of sectional title schemes. The key however, in my opinion is the challenge to accurately and clearly reflect those measurements in an easily understandable manner, to interpret the certainties and limits of those measurements, and finally, to apply such data to the sustainable and effective management of assets and people.

