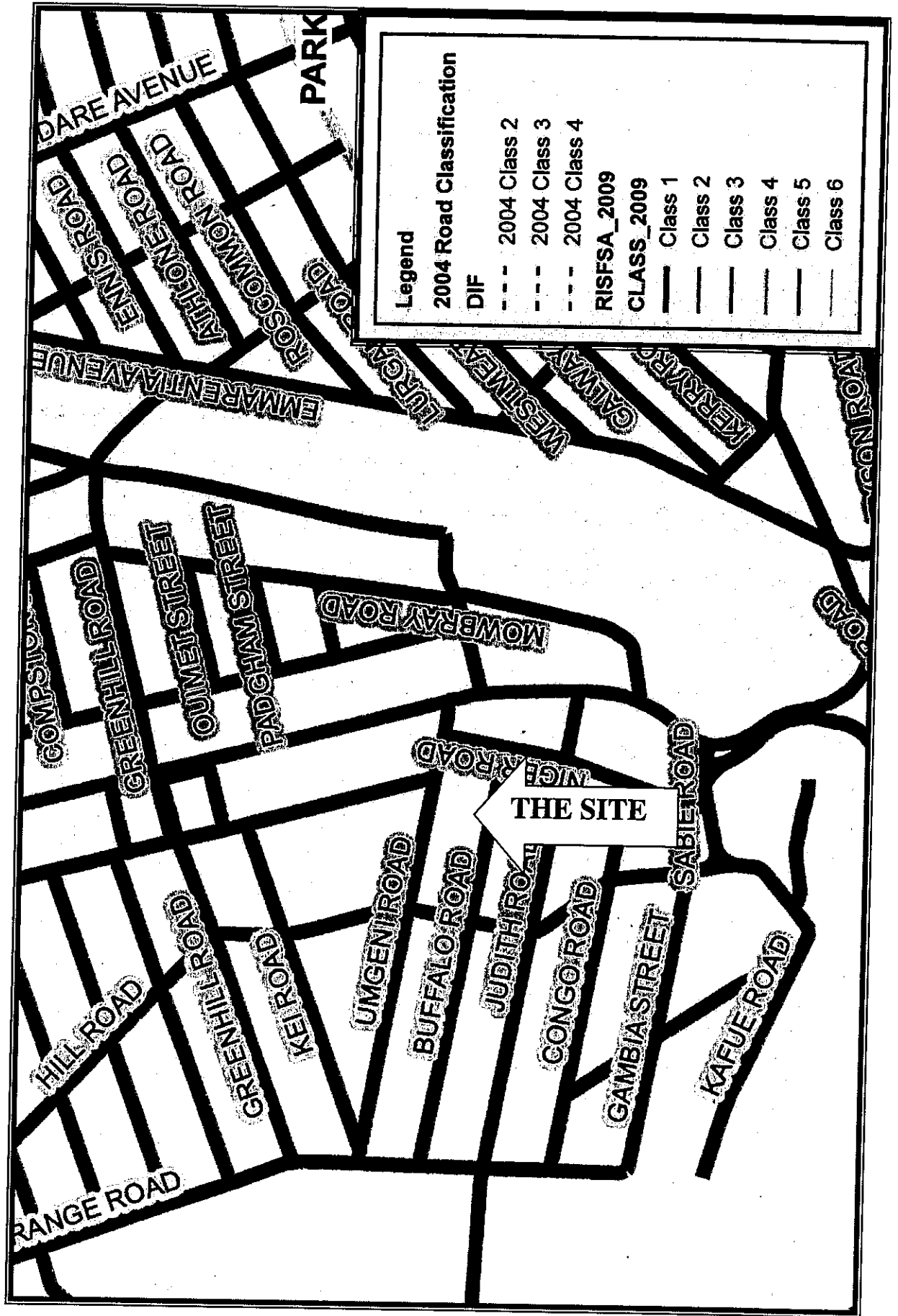


ANNEXURE A
2009 RISFSA ROAD HIERARCHY



ANNEXURE B
TYPICAL JRA ACCESS RESTRICTION DETAILS

LEGEND

NOTES

NOTES

A. GENERAL

1. Any application deviating from these standards will be subject to approval by the Johannesburg Roads Agency.
2. Professional Investigations required to accompany application for road closures for safety and security purposes:
 - (i) Traffic Impact Study addressing the effect on all adjoining primary and secondary roads.
 - (ii) Drainage investigation required if any permanent structure affects the existing roadway width.
 - (iii) Engineering design for road layout if roadway is restricted by centre island for gate support.
3. After approval for the road closures for safety and security purposes has been granted, application must be made for a wayleave to be issued by the Johannesburg Roads Agency, prior to proceeding with the installation of the various structures.

NO WORK SHALL BE UNDERTAKEN WITHOUT AN APPROVED WAYLEAVE (SEE VOLUME I CODE OF PROCEDURE).

B. STANDARD REQUIREMENTS CLOSURE TYPE 1: ACCESS CONTROL, ENTRY INTO SECURE AREA

1. All access gates shall be manned. No remote access control shall be erected.
2. Gateway:
 - a. Distance from intersecting road.
 - (i) Distance to be determined by Traffic Impact Study.
 - (ii) Minimum 10m.
 - b. Width of thoroughway :
 - (i) Roadway less than 7.4m (See Detail 1 - JRA-SD-RD-091).
 - (ii) Minimum - width of roadway.
 - (iii) Permanent structure to be outside roadway behind the kerbline.
 - (iv) Roadway width greater than 7.4m (See Detail 2 - JRA-SD-RD-091).
 - (1) Minimum road reserve 10.5m
 - (2) Centre support for boom to be provided and subject to special application. Engineering design will be required (See 2(iii) above).
3. Barrier :

The barrier shall be constructed of steel palisade or other approved material to a maximum height of 2.4m. Barbed or razor wire shall not be used.
4. Pedestrian access:

Applications must ensure that pedestrian, bicycle and wheelchair access is available at all times. The access configuration shall also be disabled user friendly, BUT shall require cyclists to dismount through the access.

C. STANDARD REQUIREMENTS CLOSURE TYPE 2a, 2b AND 3: PERMANENTLY CLOSED GATE OR PERIOD CLOSURE

1. A gateway with closing leaves shall be provided in all cases. No permanent structure shall be erected within the roadway save the provisions of (4) below.
2. Locking may only be done by using a chain and padlock. The gates may be kept in position by a solid bolt.
3. The gates are to open towards the inside of the closed area unless otherwise detailed on application.
4. Closure Type 1, gateway, barrier and pedestrian access requirements and dimensions shall apply.

D. ROAD SIGNS AND OTHER SIGNS

1. No advertising shall be allowed.
2. All road signs shall be subject to the conditions of the SADC Road Traffic Signs Manual.
3. Description of Information Type Sign:

All materials to comply with SANS 1519 standards.

Border radius: 57mm

Border colour: Black semi-matt

Border width: 14mm

Panel background: Yellow class: Retroreflective - Class 1

Text Mod: Text-B Mod

Text height: 100mm

Text colour: Black semi-matt

Distance from left edge: 42mm min

Distance between text: 42mm

4. Mounting position and height of prohibition and warning signs:

- a. The distance from the ground level to the bottom of sign must be between 1.8m and 2.1m.
- b. The distance from the back of kerb must be between 0.3m and 0.5m.
- c. The applicant shall ensure that signs are located in positions according to the recommended guidelines and are visible to the travelling public taking note of obstructions on the road edge.

AMENDMENTS

| No | DATE | APPROVED | DESCRIPTION | DESIGNED BY: | DRAWN BY: |
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| STRUCTURAL DESIGN BY: | DRAWING CHECKED BY: |
| CHECKED BY: | DRAWING APPROVED BY: |



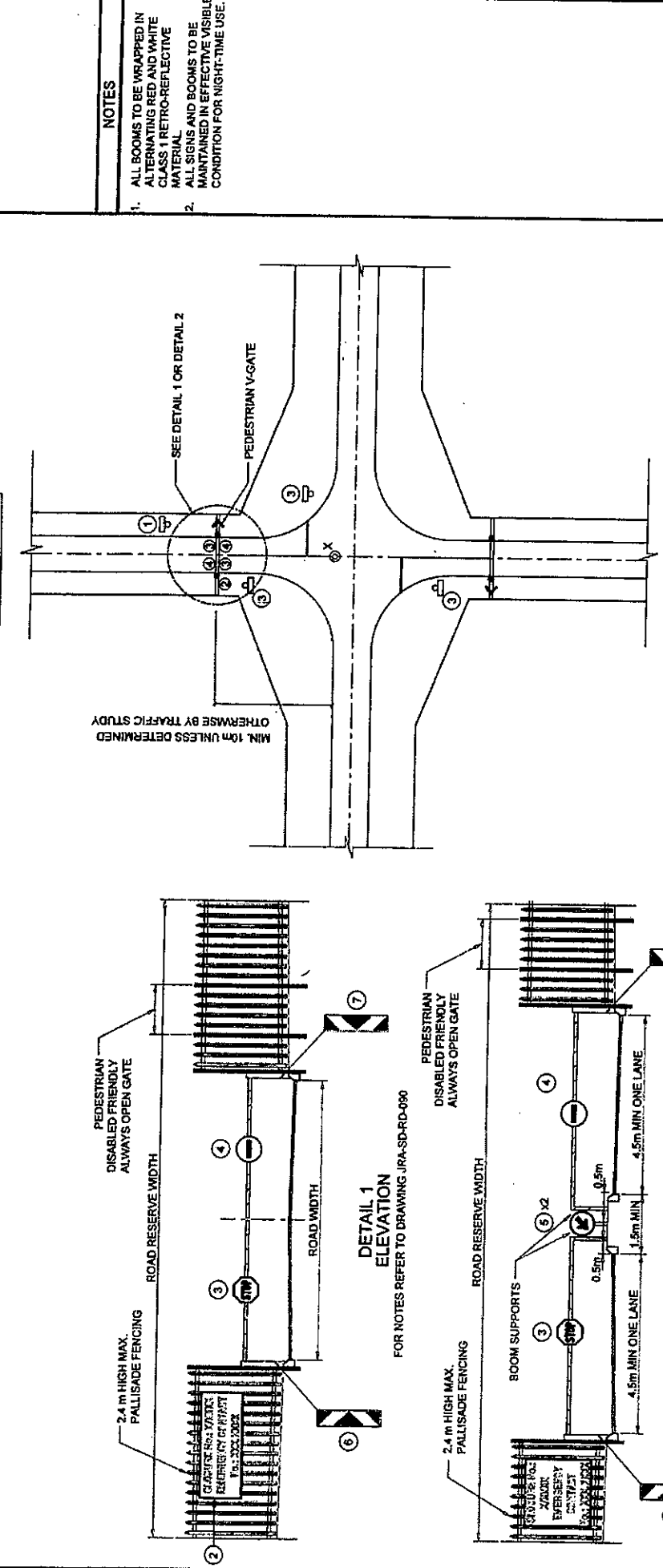
CITY OF JOHANNESBURG
JOHANNESBURG ROADS AGENCY (PTY) LTD
 Drawing Sub-set: ROADS: DESIGN

SCALE AS SHOWN: NTS
 DATE: 07/01/2015
 DRAWING NUMBER: JRA-SD RD-090
 EXTN.
 AMENDMENT NUMBER:

CONTROLLED ACCESS FOR SECURITY PURPOSES

LEGEND

| | | | |
|---|--|---------------------------------------|--|
| ① | | W/C TYPE (1400 x 1000) X/10m - 15m | TO BE PLACED ON OUTSIDE OF PALLISADE FENCE |
| ② | | R1 (600) | (800 AT ROAD JUNCTION) |
| ③ | | R1 (600) | (800 AT ROAD JUNCTION) |
| ④ | | R3 (600) | TO BE PLACED BEHIND R1 |
| ⑤ | | R103 (600) | TO BE PLACED EACH END OF ISLAND |



NOTES

1. ALL BOOMS TO BE WRAPPED IN ALTERNATING RED AND WHITE CLASS 1 RETRO-REFLECTIVE MATERIAL
2. ALL SIGNS AND BOOMS TO BE MAINTAINED IN EFFECTIVE VISIBLE CONDITION FOR NIGHT-TIME USE.

AMENDMENTS

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CITY OF JOHANNESBURG
JOHANNESBURG ROADS AGENCY (PTY) LTD
Drawing Sub-set
ROADS: DESIGN

SCALE AS SHOWN: NTS
DATE: 07/01/2016
DRAWING NUMBER
EXTN.

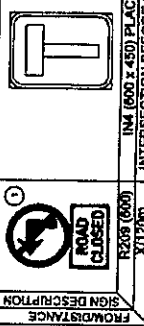
JRA-SD RD-091
AMENDMENT NUMBER:

ENCLOSED AREA: TYPE 1 ACCESS DETAIL

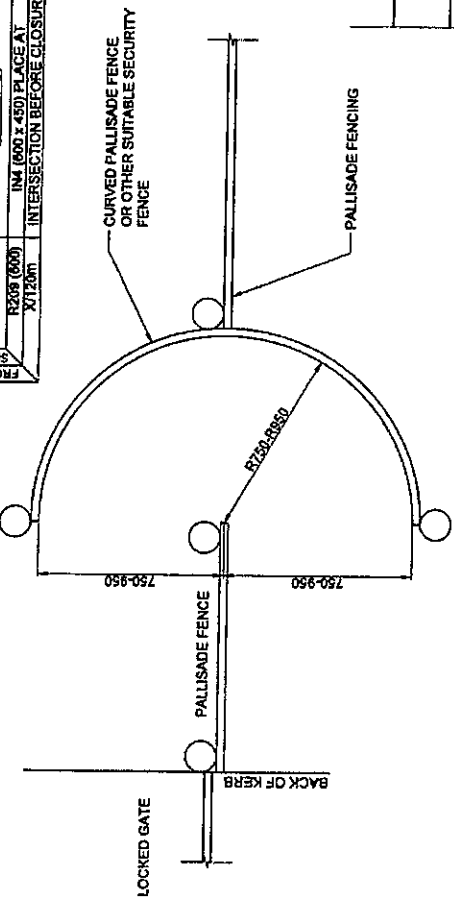
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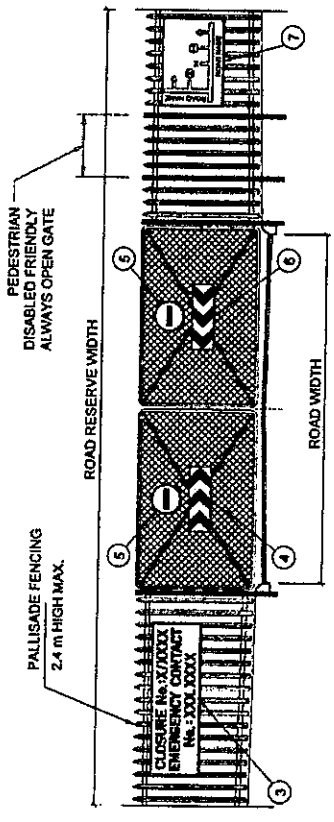
CLOSURE No. X/XXXX
EMERGENCY CONTACT
No. : XXX.XXXX



ROAD CLOSED
R208 (600)
X120m



DETAIL OF PEDESTRIAN /WHEELCHAIR FRIENDLY CRITERIA



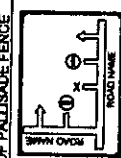
DETAIL 1
ELEVATION

FOR NOTES REFER TO DRAWING JRA-SD-RD-090

W407 (1350 X 465)
TO BE PLACED ON OUTSIDE OF PALLSADE FENCE TO BE PLACED ON BOTH SIDES OF GATE

W408 (1350 X 465)
INTERSECTION BEFORE CLOSURE TO BE PLACED ON OUTSIDE OF PALLSADE FENCE

X120m
R210 (800)
TO BE PLACED ON BOTH SIDES OF PALLSADE FENCE



ROAD CLOSED
R208 (600)
X120m

NOTES

1. THE SALIENT CRITERIA FOR A PEDESTRIAN/WHEELCHAIR FRIENDLY OPENING IN A PALLSADE FENCE ARE ILLUSTRATED OPPOSITE. SPECIFIC MATERIALS ARE NOT GIVEN TO ALLOW SOME FREEDOM IN DESIGN AND AESTHETICS.
2. APPLICANTS FOR AREA CLOSURE SHOULD SUBMIT SPECIFIC DETAILS WITH THEIR APPLICATION.

| NO. | DATE | APPROVED | DESCRIPTION |
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| DRAWING CHECKED BY: | |
| DRAWING APPROVED BY: | |



CITY OF JOHANNESBURG
JOHANNESBURG ROADS AGENCY (PTY) LTD
Drawing Sub-set
ROADS: DESIGN

SCALE AS SHOWN: NTS
DATE: 07/01/2015
DRAWING NUMBER
JRA-SD
RD-092
AMENDMENT NUMBER:

ENCLOSED AREA: TYPE 2A CLOSURE DETAIL