

APPENDICITIS

APPENDICES







APPENDIX A:

MAMELODI: MARGINS AND MOUNTAINS

The urban design framework was developed as a group in response to the mapping and observations made during transect walks.

According to Marie Huchzermeyer (2010) informal settlements are the only form of urbanism that are really deconstructing the spatial legacies of apartheid.

The group recognises the innovation and relavence of informal settlements and thus positions itself within the spatial debate surrounding informal settlements. The position lies between the pragmatic and romantic views of informal settlements. Recognising that informal settlements are inevitable in the south african context, the pragmatic approach seeks to up grade settlements, in situ. The romatic view, sees informality as the most appropri-

ate form of urban design in the current context. Positioning between the two, the group acknowledges the settlement's position and the residents' spatial right to the city and endeavours to create catalyst interventions which will encourgae the in situ up grading of the settlement, in a sustainable way.

The following is a reporduction of the presentation of information gathered during mapping and the urban design proposal in response to that mapping.







A History & Mamelodi





Welcome & Alaska













Mapping & Context

UNIVERSITEIT VAN PRETORIA UNIVERSITY OF PRETORIA YUNIBESITHI YA PRETORIA







Critique 🖋 Previous Frame

Macro Urban Scheme - GAPP Urban Designers, 2011





Meso Urban Schemes - HSU Honours Students, 2011&2013

The majority of the student projects deal with the Informal Settlement, East of the RDP development. Many suggest similar interventions - such as a bridge, emergency gathering points, public amenities, off-grid infrastructure and in situ upgrading of the informal settlement - thus changing the status of the settlement from temporary to permanent.





The GAPP proposal, on a Macro scale - has the potential to transform Mamelodi into an Urban Centre in itself. The proposal, submitted in 2011, completely ignores the informal settlement of Alaska and almost entirely disregards the ROP Developments to the East of the Elandal Spruit. This master plan would further perpetuate the *klandiaction* of Alaska, as it remains at the end of a Cul de sac, across an unbridged river.

No new economic nodes or public amenities are proposed within the focus area. As such, Mamelodi could grow into a thriving Urban Centre, offering more work opportunities and the informal

settlement would continue to grow in place, offering migrant workers cheaper living accommodation.

Additionally, this proposal does not address the river issues and halfheartedly attempts to connect Alaska with a single BRT line.







The Aparthetid Spatial Legacy has left Alasko removed from Protoria's urban centre, economic haits and public spaces. Mopping revealed Alasko to be an Urban bland - roid of defined public spaces, but first to the beginnings of social structures, nonthe less. The potential entries for this state to become an orban centre. Building upon these existing, adaptable social structures, the Urban Framework almost to unlock the site's potential and in during soconcertise the coherence of community and place.

civic spaces

Identify existing

Revitalise & Enhance

such spaces through the various design interventions

 Rooted in existing on-site activities and evolved through community participatory processes, the interventions intend to

Stabilise current Social Structure



Create Catalytic centres for in situ upgrading to grow from.

Economy

聯。

Self-Reliant Urban Centre well defined and accessible Civic Spaces and amenities.

The right to urban life:

to **renewed** centrality, to places of **encounter** and **exchange**, to life rhythms and time uses, **enabling** the complete usage of these moments and places.















Appendix B:

Observations on a Sound Study in Healthcare Facilities

The author was a research asstant for a sound study within hospital wards in Pretoria Healthcare facilities.

The study involved members of the team recording sound events over a course of 6 days. The study itself will compare the different data sets and determine the impact of architectural design choice in the creation or reduction of noise.

Despite the study being conducted in hospital wards, observations made during the author's shifts are noted below as they influence the design. These observations are purely based on personal observations.

Tiled passages VS vinyl floors

Noise is drastically increased by the use of tiled floors within healthcare settings. Trolleys - food, medical and nursed' - are caused to rattle and objects upon them shake, increasing the noise, as trolleys move down corridoors.

noise is reduced by smooth floor surfaces, creating a far less aggrevating noise environment.

Ceiling levels

Lower ceilings decrease the reverberation time and high pitched alarms and medical equipment beeping is caused to echo more in passages with lower ceiling.

Surfaces

Healthcare facilities use hard surfaces for their anti-microbial properties. These materials are sound reflective and coupled with the low ceilings, increase noise levels. The introduction of softer materials lowers the noise - such as the curtains and beds in the wards.

Conclusions

As hard surfaces can not be avoided, sound absorbing techniques should be used to reduce noise within high traffic careas.

Flat floor surfaces should be used and penum spaces designed between circulation spaces and prvate rooms, to reduce the amount of noise that enters the quieter zones.