ELEMENTS AND PRINCIPLES

NODE 7

visual barrier to slow down traffic

edge

traffic movement space

edge

pedestrian movement space

edge

informal trading

edge

formal trading

slow down vehicular movement to facilitate greater safety of water collection points

protect trees from moving vehicles

protect water points provide appropriate street furniture for outdoor living activities

protect pedestrians from moving vehicles and natural elements

protect informal traders.
MOBILITY
Free pedestrian movement in outdoor communal living space.

CONSIDERED VEHICLE
Movement by narrow public space.

INFRASTRUCTURE
Piped water and soak-away grey water and biological sewer system.

ACTIVITIES
Activities connecting to the space would include a gospel preacher, teacher, child minder, doctor, etc.

LANDSCAPE
Shade trees to soak up grey water disposal as well as narrow public space to slow down traffic.

Basic shape of space can be determined in advance but position of elements, structuring of space and moment in which detail is shaped should be left to the residents connected to the space.

A process of collaboration and participation should be followed in guiding the residents connected to the space, in shaping the space.

Gravel surface initially, residents can decide when to upgrade share- upon self-help centre should assist in paving.

Cut back for meeting space could have different edges.

Cut corner for improved sight.

Space where built form can cope with space from flat away and uphill.

Cut corner for drainage and sight distance. Avoid what foundations.

Meeting places
Spatial Elements and Principles

Vehicular and pedestrian movement space

Edge

Semi-public space

Protective edge for pedestrians seated on the periphery of the public space.

Semi-private space

Protect pedestrians from natural elements.

Protected space

Protect and shade seating space.

Covered space

Demarcate transition between public and more private domain.

Covered enclosed private space

Edge.
**Development Process**

- Private enclosed space
- Semi-private space
- Public space
- Covered enclosed living accommodation
- High enclosing wall
- Outdoor living space
- Low enclosing wall
- Gardening or paved space
- Seating element
- Paved and tree planted pedestrian and vehicular space.

**Enabling Structure**

- The self-help centre should prepare the surface of the public space between the seating space for paving by the residents.
- The self-help centre should initiate the paving process and maintain the momentum by providing piece-work to residents.
- The self-help centre must ensure that trees are made available for planting and initiate planting programmes with the residents by means of piece-work employment.
- The construction of the seating arrangements should be undertaken by each owner. The self-help centre should assist by initiating the construction of seating space on a few sites where the cost thereof has already been included in the price of the erf.
- Piece-work employment finance should be added in as a percentage of monthly maintenance or upgrading charges to each owner's bill.
- If paving of public space is undertaken by the self-help centre on behalf of the residents the cost should be borne by the residents.
**SPATIAL ELEMENTS AND PRINCIPLES**

- **shade trees**
  - planted on surface
  - pedestrian space
  - edge
  - protect parked vehicles and children at play from natural elements.

- **street trees**
  - seating and flower beds integrated
  - pedestrian movement space
  - edge
  - protect pedestrians from natural elements.

- **bordering or paving space**
  - low enclosing wall and steps
  - semi-public space
  - edge
  - protect pedestrians from moving traffic.

- **outdoor paved living space**
  - high enclosing wall with wheelchair access and steps up
  - semi-private space
  - edge
  - demarcate transition between public and more private domains clearly.

- **indoor private living space**
  - high enclosing wall
  - covered enclosed private space
  - edge.
**Development Process**

- **Private enclosed living space**
  - Covered enclosed living accommodation
  - High enclosing wall
- **Seawall**
  - Private living space
  - Outdoor living space
  - Low enclosing wall
- **Path**
  - Public space
  - Private space
  - Gardening or paved space
  - Low flower beds with seating space
  - Public space - pedestrian
  - Paved surfaced space
  - Edge - roll over kerb with lane of street trees
  - Pedestrian movement space
  - Tarred surfaced space
  - Parking space
  - Gravel surface with lane of shade trees
  - Vehicular movement space
  - Tarred surfaced space
  - Edge - roll over kerb with lane of street trees
  - Pedestrian movement space
  - Gravel surfaced space

**Enabling Structure.**

- the construction of seating spaces and flower box arrangements on site boundaries as well as tree planting to be arranged by the self-help centre.
- Individual owners should arrange seating space and flower box arrangements to their own design and build with the assistance of the self-help centre. Where it should supply the trees and plant them.
- Tarred road surfaces with gravel sidewalks to be constructed by the self-help centre. Street trees and centre tree lane to be planted by the self-help centre in the intended design.
- Maintenance of street trees and centre tree lane to be done by self-help centre. In interim stage when French drain system is still in use, trees can soak up French drain water and need no maintenance.
- Site owners should maintain trees on site boundaries.
- Upgrading of sidewalks to be initiated by self-help centre by involving residents on both sides of the road. Alternatively self-help centre can undertake paving and recover from owners in monthly maintenance charges.

**Movement Space**

- Pedestrian movement space
- Outdoor living space
- Public space - pedestrian
- Low flower beds with seating space
- High enclosing wall
- Vehicular movement space
- Tarred surfaced space
- Parking space
- Gravel surface with lane of shade trees
- Street trees
- Edge - roll over kerb with lane of street trees
- Pedestrian movement space
- Gravel surfaced space

**Structuring of Activities**

- Pedestrian movement space
- Outdoor living space
- Public space - pedestrian
- Low flower beds with seating space
- High enclosing wall
- Vehicular movement space
- Tarred surfaced space
- Parking space
- Gravel surface with lane of shade trees
- Street trees
- Edge - roll over kerb with lane of street trees
- Pedestrian movement space
- Gravel surfaced space

**Landscaping**

- Pedestrian movement space
- Outdoor living space
- Public space - pedestrian
- Low flower beds with seating space
- High enclosing wall
- Vehicular movement space
- Tarred surfaced space
- Parking space
- Gravel surface with lane of shade trees
- Street trees
- Edge - roll over kerb with lane of street trees
- Pedestrian movement space
- Gravel surfaced space

**Infrastructure**

- Pedestrian movement space
- Outdoor living space
- Public space - pedestrian
- Low flower beds with seating space
- High enclosing wall
- Vehicular movement space
- Tarred surfaced space
- Parking space
- Gravel surface with lane of shade trees
- Street trees
- Edge - roll over kerb with lane of street trees
- Pedestrian movement space
- Gravel surfaced space
spatial elements and principles

- vehicular movement space
- open informal trading space
- pedestrian movement space
- covered formal and informal trading space
- covered enclosed formal trading space

- edge
- edge
- edge
- edge
- edge

- protect informal traders from natural elements
- protect pedestrians and informal traders from natural elements
- provide safe space for children to meet
- provide seating and resting space for the aged
- demarcate transition of spaces clearly
enabling structure.

- construction of seating space around tree trunks to be initiated by the self-help centre.
- individual owners can construct seating space to their own design around any tree trunk in front of their site.
- self-help centre to provide trees as well as undertake planting if residents will not assist in the planting process.
- cost of trees as well as planting to be recovered directly from maintenance rates of individual owners. Cost should be spread over a year period.
- gravel roads and sidewalks to be constructed by the self-help centre. Costs to be recovered in selling price of eren.
- upgrading of road and sidewalks to be initiated by owners of sites. Savings club. Self-help centre to assist with construction.
- full cost of infrastructure available at the time of sale of sites should be recovered in sales price of eren.
Spatial Elements and Principles

- **Vehicular Movement**
  - Protected from moving vehicles.
- **Pedestrian Movement**
  - Protective from the natural elements.
- **Edge**
  - Demarcates the boundary between public and private properties as part of the social space.
- **Semi-Public Space**
  - Facilitates a transition from public to private domains of each individual living environment.
- **Semi-Private Space**
  - Connects outdoor semi-private living space to semi-public space.
- **Private Enclosed Space**
**Development Process**

- Semi-public space
- Edge
- Pedestrians
- Vehicles

<table>
<thead>
<tr>
<th>space</th>
<th>Description</th>
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<tbody>
<tr>
<td>semi-public space</td>
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<tr>
<td>edge</td>
<td>edge</td>
</tr>
<tr>
<td>pedestrians</td>
<td>lane of trees with seating space</td>
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<tr>
<td>edge</td>
<td>lane of trees with seating space</td>
</tr>
<tr>
<td>vehicles</td>
<td>hard surfaced space</td>
</tr>
</tbody>
</table>

Enabling structure:

- Construction of seating space around tree trunks to be initiated by the self-help centre.
- Individual owners of sites can construct seating space around any tree on the sidewalk in front of his site.
- Self-help centre should provide shade trees and encourage individual owners to plant those in front of their houses themselves.
- Cost of trees to be recovered in monthly maintenance rates from owners directly.
- Gravel roads and sidewalks to be constructed by self-help centre.
- Costs of gravel roads and sidewalks to be recovered in selling price of lots.
- Upgrading of road and sidewalk surfaces to be initiated by owners on both sides of road. Self-help centre should assist in implementation with owners.
- Full cost of infrastructure available at the time of sales should be recovered in the selling price of the erven in the town.

Movement space:

- Gravel or brick paved surface

Structuring of activities:

- Vehicle space
- Seating space
- Pedestrian space
- Semi-public space

Landscaping:

- Rows of shade trees

Infrastructure:

- Water supply
- Electrical supply
CONCLUSION.

The importance to develop the public environment to function as a living room to the residents of the urban environment, in especially the local urban environment, is basic to those people who have an outdoor lifestyle. Their needs should be recognised and those facilities and spaces necessary to accommodate outdoor lifestyles, should be provided in the public environment where the individual as well as the community at large can benefit.

From this study the following principles became important:

1. If the public environment is designed and developed primarily to accommodate the car and its functions, it cannot function effectively and efficiently as an outdoor communal living room to the people who are dependent on it in their daily life.

2. Efficient and effective urban environments are not created by pre-designing and pre-building the overall as well as the individual environments.

3. The individual should create the individual environment and the public sector should develop the collective public environment to accommodate the lifestyles of the inhabitants.

4. The car and its activities should have a secondary function in the public urban environment at the neighbourhood and lower order scales.

5. Urban Design Guidelines can be vague and loosely defined as in the metropolitan environment, or more specific and detailed as in the local area environment, depending on the objective.

6. Urban Design Guidelines should be robust enough to accommodate change and be expanded to other parts of the urban environment to provide identity.

By following these basic principles those preconditions for urbaniy, which have been lost over time in technological advancement, can be recovered and retained in existing as well as in newly developing urban environments.
# BIBLIOGRAPHY


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