**Banda Aceh Rotary Village**

**public area**

The public buildings lie within the 2 sides generated from the top left side of the diagram above with the exception of the mosque. The main lines of the mosque are generated from either the primary or secondary lines with intersection at 45 degrees or non-isometric 30 degrees. The forms are then articulated by laying a second geometry, the square, on top.

The buildings follow a pagoda circulation path punctuated by a series of meeting spaces that rotate directly to the space and the assembly. In the mosque, this ordering of meeting spaces along a circulation path can be rotated to the most context and geometric ordering of Islamic Kufic calligraphy.

**primary line**
- Horizontal 0 degree
- Vertical 90 degree

**secondary line**
- Horizontal 45 degree
- Vertical 45 degree

Kufic calligraphy (square state) Islamic calligraphy is clearly linked to geometry and it is considered the most important of Islamic arts.

**plus private area**

The use of a pattern results in many combinations of dwellings and future expansions of both the orphanage village and student dormitories are accommodated for.

The use of the individual units within the orphanage village is described to be generated based on the geometry of the square. The space is articulated by incorporating the square pattern with a public area but then it is also varying on the scale of the public and social interaction points (circumference walking or bridge looking). In all cases the kids with the public and the students' courtyards within the orphanage village ensure interaction between the kids living in the individual units.

**plus landscape equal plan**

The generation of this plan begins by placing the critical elements of the environment, the utility and social center of the village as well as the individual houses. The generation then produces basic circular square patterns through the use of local materials (bamburu, betel, coconut wood) and labor will maintain a positive force for many without a stable income. The land that is not suited to the generation can be given to the adjacent rice-growing for growing rice, giving areas of land back to the community while at the same time avoiding geometric order in the division of land.

**water**

The flow of water represents the flowing of life (as oppose to the life taking of the tsunami) while the collection of potable water for drinking, cooking & bathing is very important. Banda Aceh experiences an average rainfall of 1000mm annually, plenty enough so that people can be without losing underground for sources of water.

**community**

The economic future and well being of Banda Aceh and its wider community will need to be sustained in order for the regeneration back to a proper functioning city, the use of local materials (bamburu, betel, coconut wood) and labor will maintain a positive force for many without a stable income. The land that is not suited to the generation can be given to the adjacent rice-growing for growing rice, giving areas of land back to the community while at the same time avoiding geometric order in the division of land.

**art & geometry**

The circle and its center are the point at which all Islamic patterns begin. The geometries of the circle and its primary lines are mentioned to explore the implications of making a geometrically closed circle in Islamic architecture. Space is defined by surface and since surfaces are articulated by recursion, there is an extreme connection between space and recursion. The design of the buildings vehicle in this approach and seeks a harmonious balance between traditional, vernacular and modern design aesthetics.