

7 FOUNDING



Chapter 7: Technical Resolution

This chapter investigates the technical resolution of the proposed design. The final master plan and sketch plan are presented followed by sections. The sections reference the details, which explain how the design would be implemented and constructed.



7.1 Final Master Plan 1:2000

How the design is connected to surrounding functions and how it links to the greater context of Marabastad.



7.2 Sketch Plan 1:500

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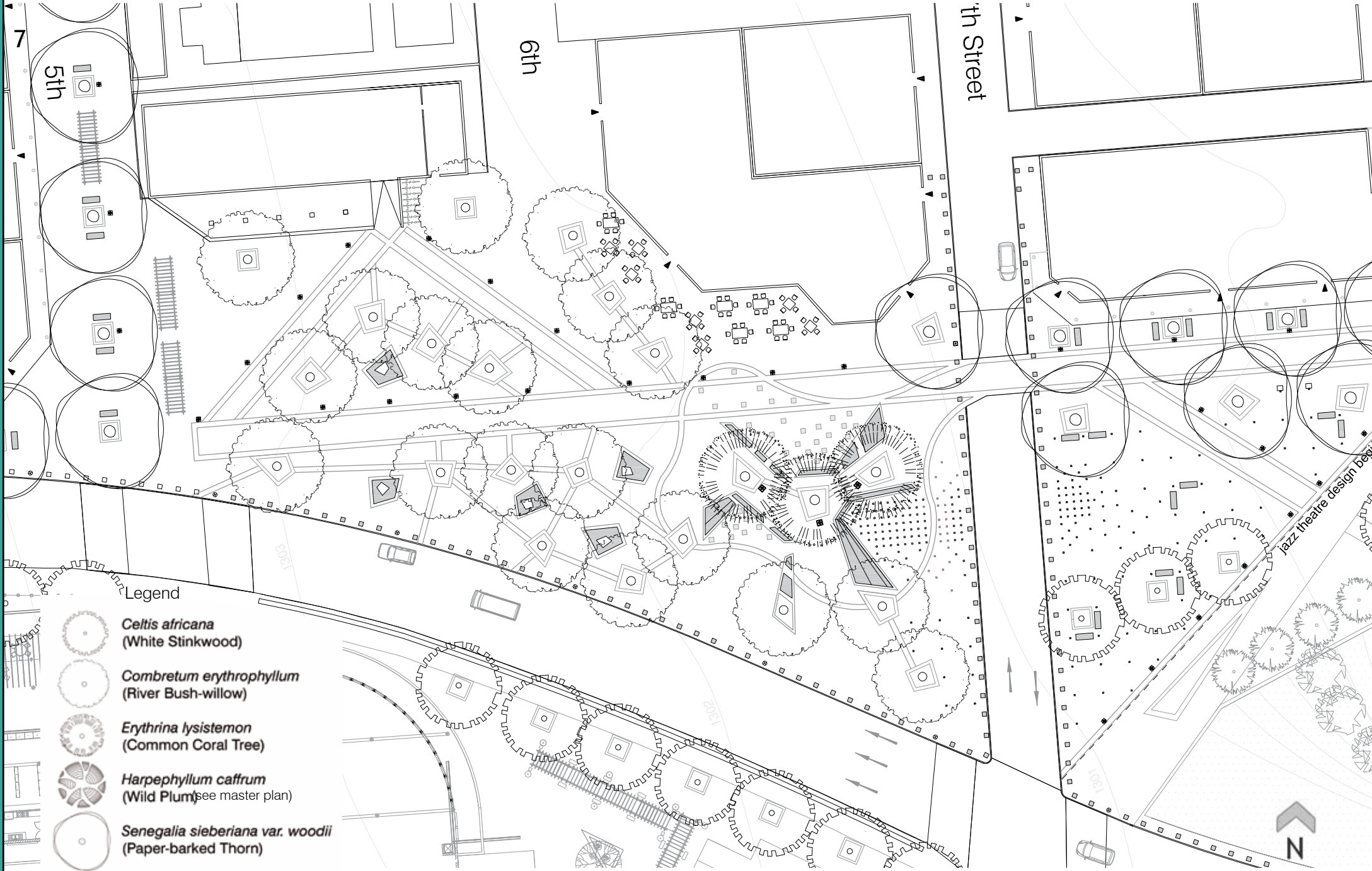
es the site where the landscape intervention is illustrated on a detail level and the various components of the design are indicated.



Social Space in front of Community Hall



Looking across 7th Street towards steel light columns



7.3 Planting Plan 1:500

The planting plan indicates the position and type of tree species specified for the design.

7.3.1 Plant Palette:

Trees were selected according to colour, texture and the atmosphere that they would create. All trees species are indigenous not only for the ecological benefits but also because indigenous trees require less water and maintenance.



Celtis africana
(White Stinkwood)

COLOUR:

Dark green foliage with pale grey bark

TEXTURE:

Bark is smooth, leaves simple and alternate.

ATMOSPHERE:

Good shade tree creating cool and comfortable experience. Deciduous and therefore induces change to the site when seasons change. Focal element when it has no leaves.

Combretum erythrophyllum
(River Bush-willow)

COLOUR:

Green leaves yellowish on undersurface that turn brilliantly yellow and red autumn colours. Fruit light brown when dry.

TEXTURE:

Bark dark grey, flaking in sections to reveal biscuit coloured patches.

ATMOSPHERE:

The yellow and red autumn foliage creates a unique quality. Deciduous tree and will therefore emphasize seasonal changes.

Erythrina lysistemon
(Common Coral Tree)

COLOUR:

Green heart shaped leaves with pale grey-brown bark. Bright red flowers when no other trees are in flower.

TEXTURE:

Scattered hook thorns on bark. Flower has long narrow petals.

ATMOSPHERE:

Focal tree with bright red flowers to reference blood. Crushed leaves are applied to festering sores and open wounds are treated with powdered burnt bark.

Harpephyllum caffrum
(Wild Plum)

COLOUR:

Dark grey bark, dark green leaves. Leaves colour to a beautiful red in autumn but stay on tree for up to two years. Red edible fruit.

TEXTURE:

Smooth bark. Leaves are glossy and unevenly compound creating a rich texture of foliage.

ATMOSPHERE:

Excellent shade tree. Evergreen, therefore provides shade and colour all year round.

Senegalia sieberiana var woodii
(Paper-barked Thorn)

COLOUR:

Dark green foliage with light brown to yellowish bark.

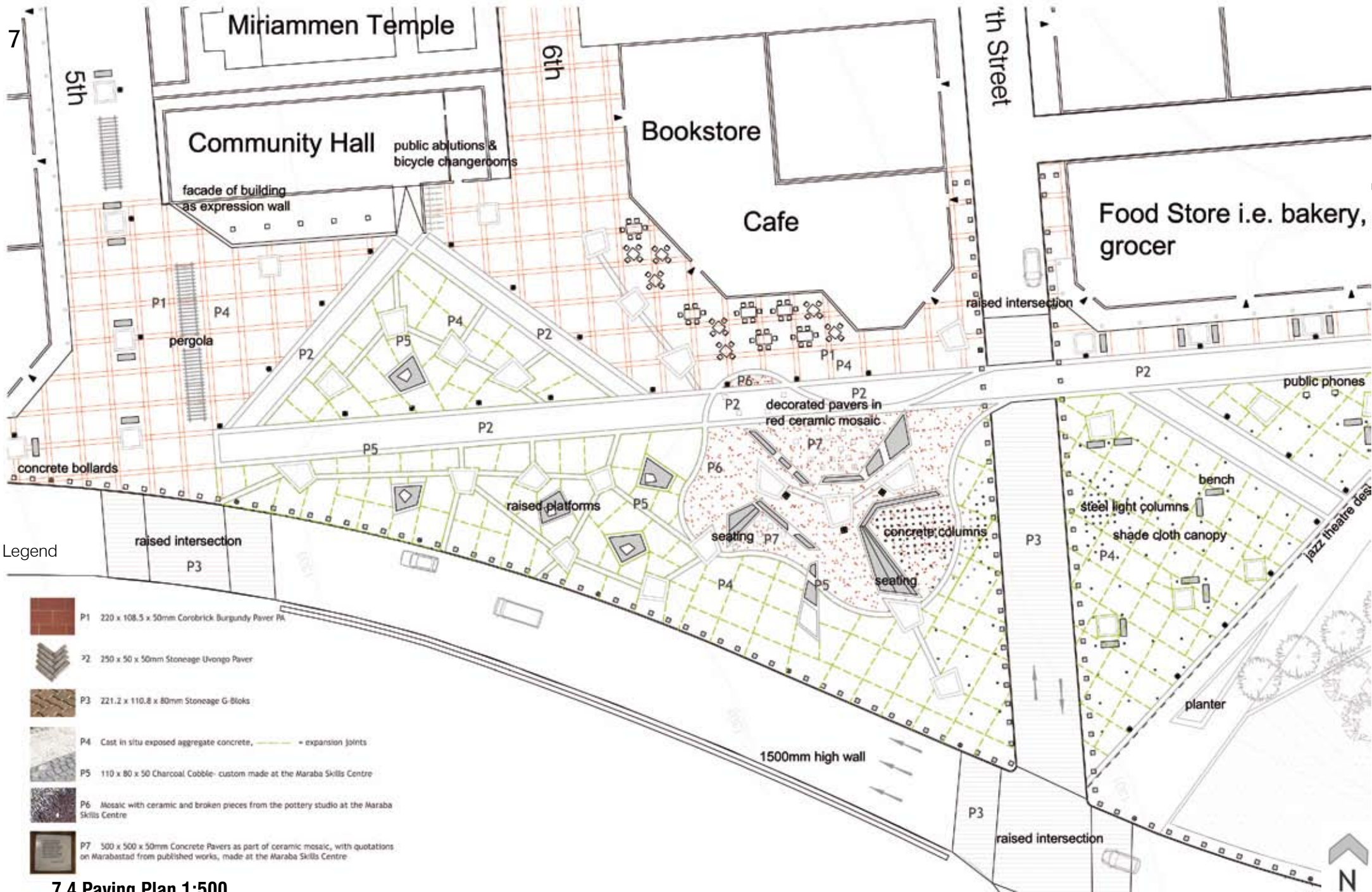
TEXTURE:

Bark is corky and peels off in large sections.

ATMOSPHERE:

Deciduous tree and will therefore emphasize changing of seasons. Good shade tree as well as focal tree and creates a typically African experience. Large and spacious.

Venter (2005:30,98,104,154,190)



Paving materials were chosen to create a pedestrian friendly environment. Mosaic and cobbles result in a richly textured surface. Red brick and concrete larabastad and therefore these materials were carried through in this design.

7.4.1 Material Palette

This indicates the textures and colours of the materials used in this landscape design.

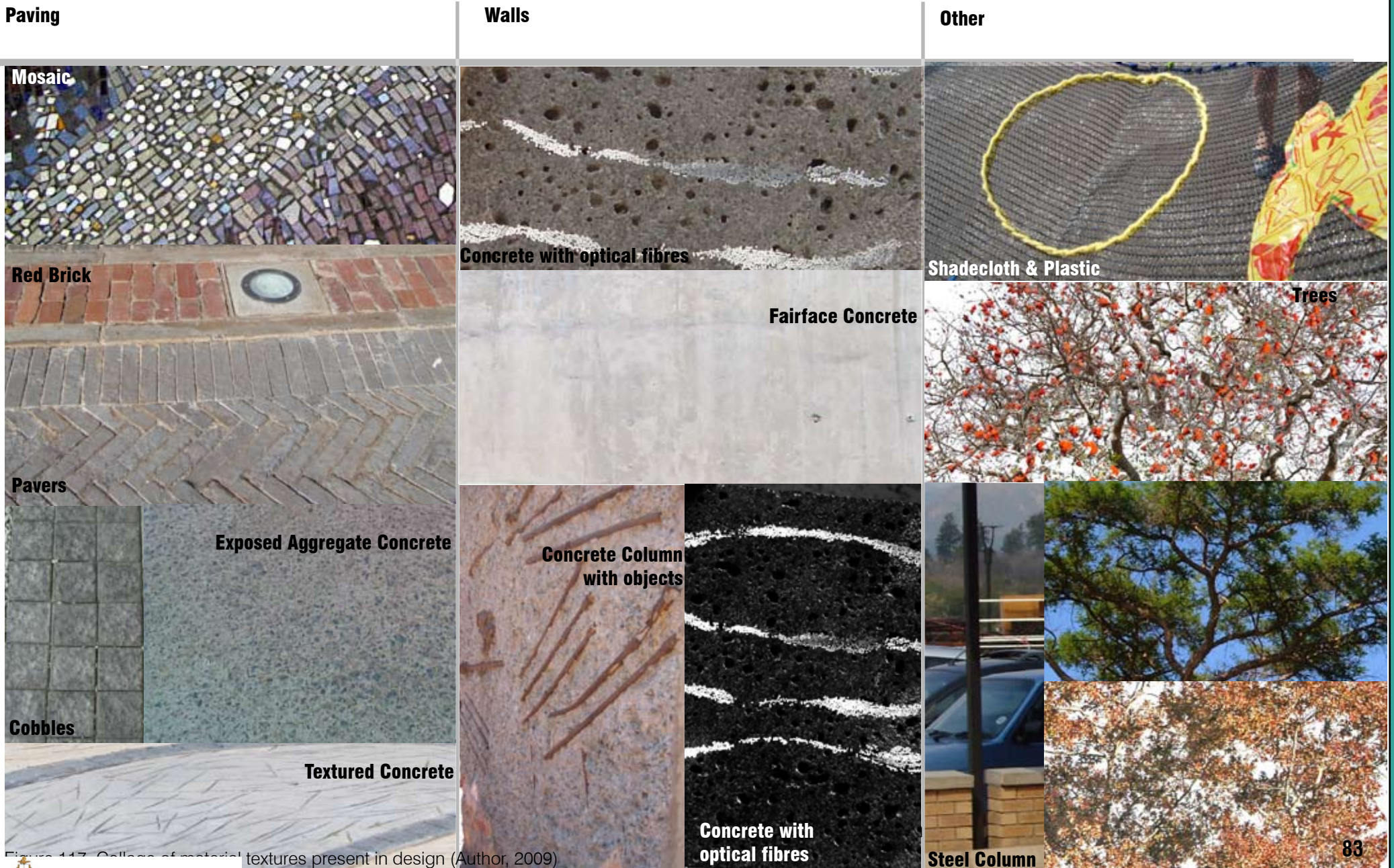


Figure 117. Collage of material textures present in design (Author, 2009)



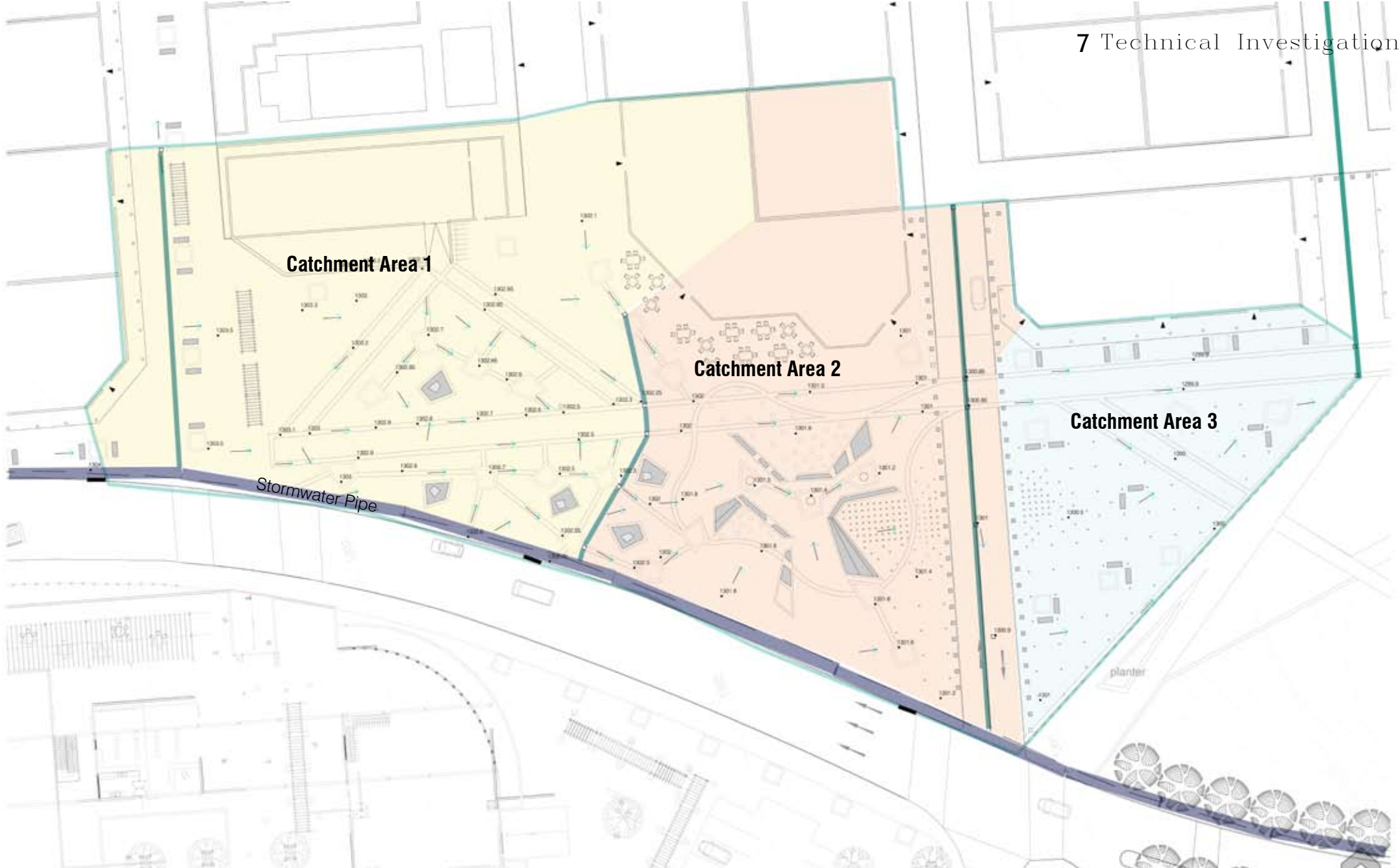
Viewing the Memorial Space from North



Approaching Memorial Space from the South- By Day



Approaching Memorial Space from the South- By Night



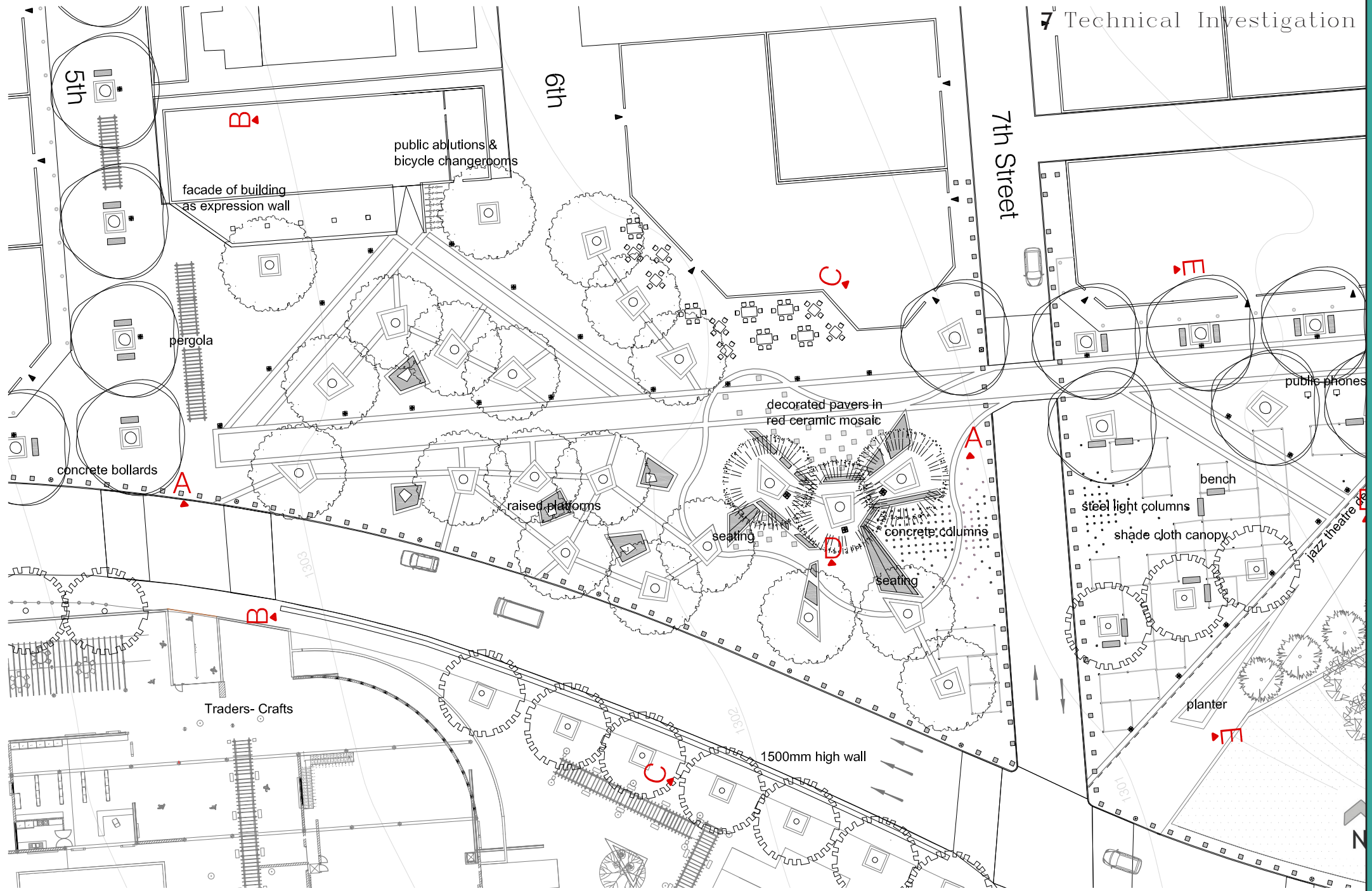
7.5 Stormwater Plan 1:500

Stormwater is directed through a network of cobble swales which allows the water to infiltrate into the ground and is directed towards trees for irrigation. Excess water is channelled to catch pits which lead to the existing stormwater pipe system on site.



7.6 Lighting Plan 1:500

86 Safety is an important concern and therefore a hierarchy of lighting- vehicular, pedestrian and focal- ensures that the site is well lit. The plan also indicates placed by the steel light columns.



7.7 Plan indicating section positions 1:500



People walking along
Bloed Street Boulevard

Platforms as opportunities
for performances and events

7.8 Section A-A 1:100



Concrete Light Platform

Light Walls

Light Walls radiating from Memorial Space which contains three *Erythrina lysistemon* (Coral) trees



7.9 Section B-B 1:100





7.10 Section C-C 1:100

Section C-C clearly shows the Memorial Space with the concrete walls with optical fibres radiating from the three trees. The cafe area to the edge of the Memorial Space can be seen.





Section D-D reveals the concrete columns and steel columns increasing in height from the Memorial Space.



Shade cloth embroidered by the Marabastad Centre for Arts attached to steel light columns

Bloed Street Boulevard

2m collonade as threshold along building

Senegalia sieberiana (Paperbark) trees form a shaded avenue along Bloed Street Boulevard, creating a uniquely African atmosphere

7.12 Section E-E 1:100

96 Section E-E shows the space that contains the steel light columns with shade cloth attached to it. A typical section through Bloed Street Boulevard can be seen.



Traders

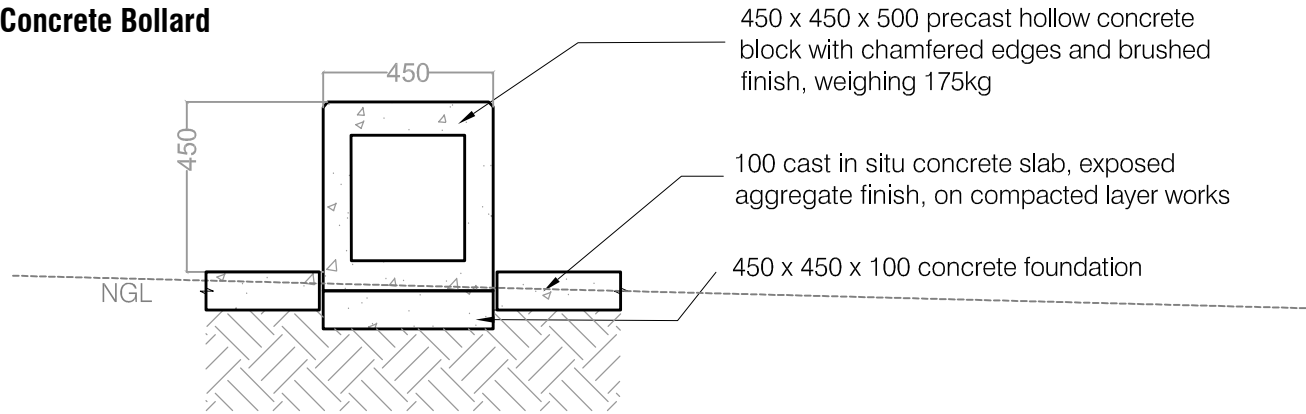
1300.5

Shadows cast onto the ground from the shade cloth canopy consist of games and interesting shapes for children to interact with

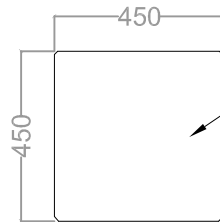
Planter as part of Jazz Park design, therefore existing

7.13 Details

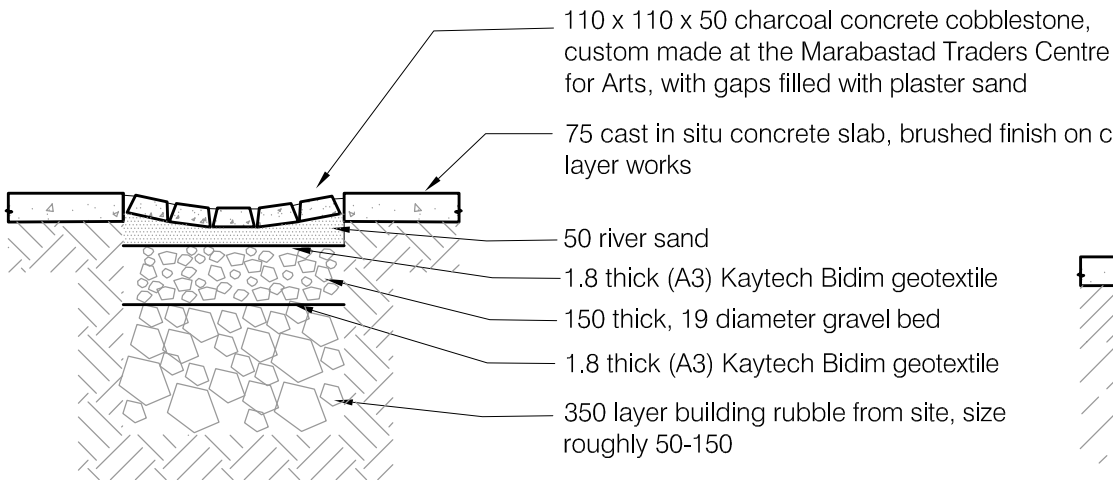
Detail of Concrete Bollard



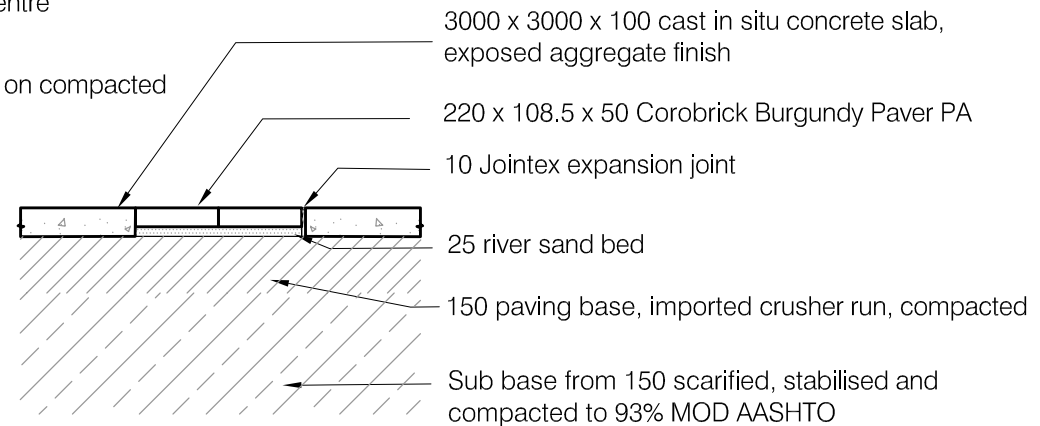
Concrete Bollard Section 1:20



Concrete Bollard Plan 1:20

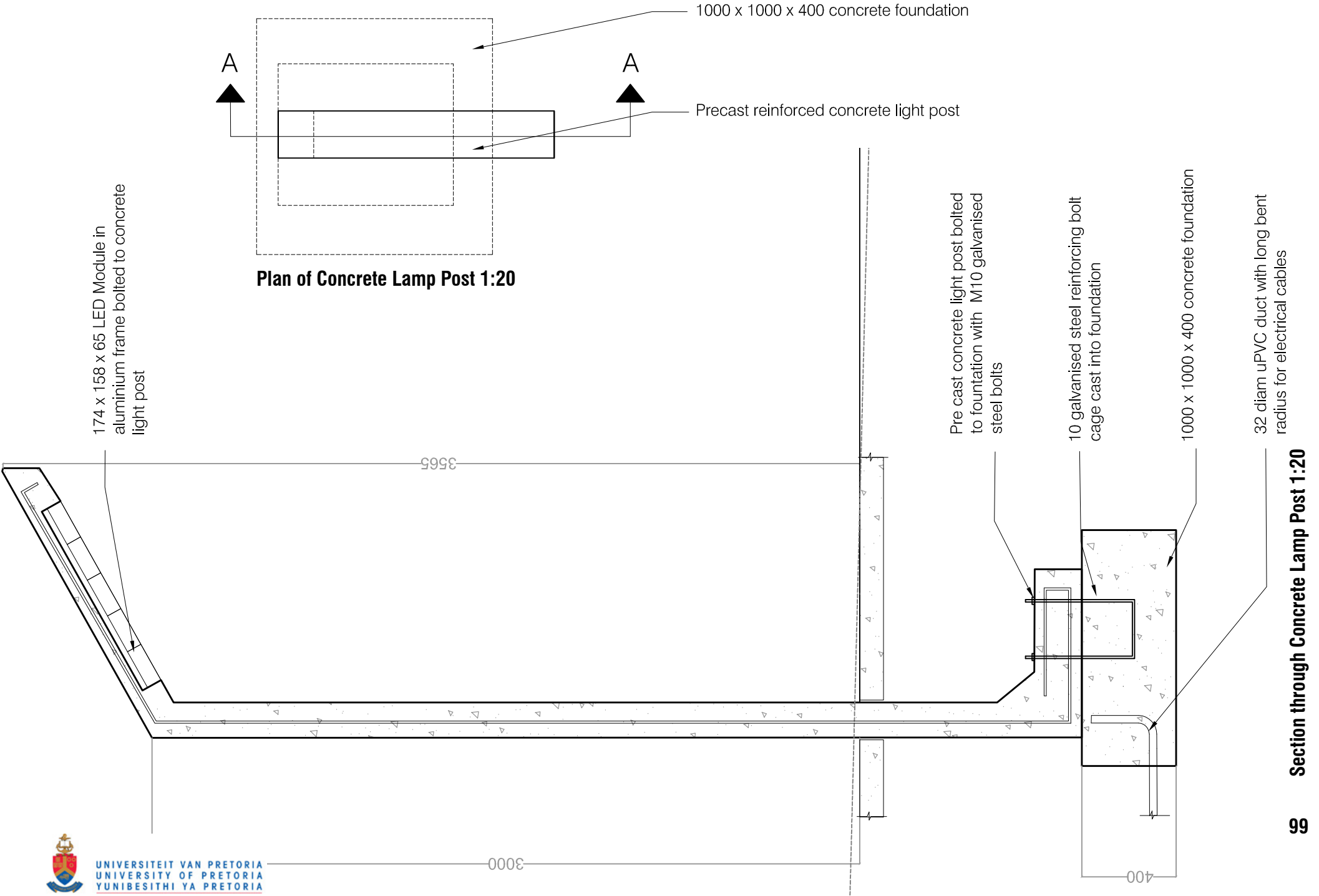


Detail of Paving in front of Community Hall 1:20

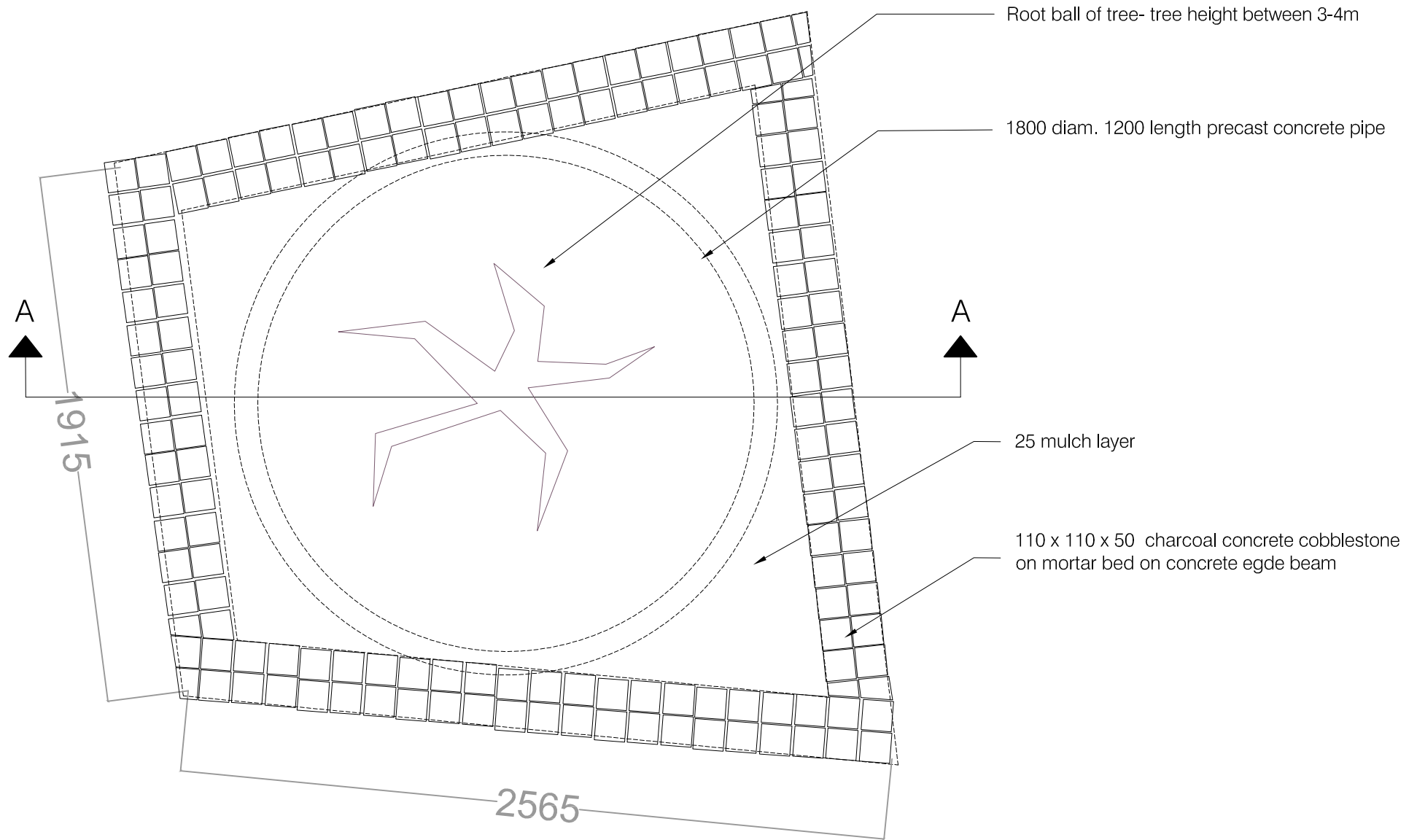


Detail of Paving in front of Community Hall 1:20

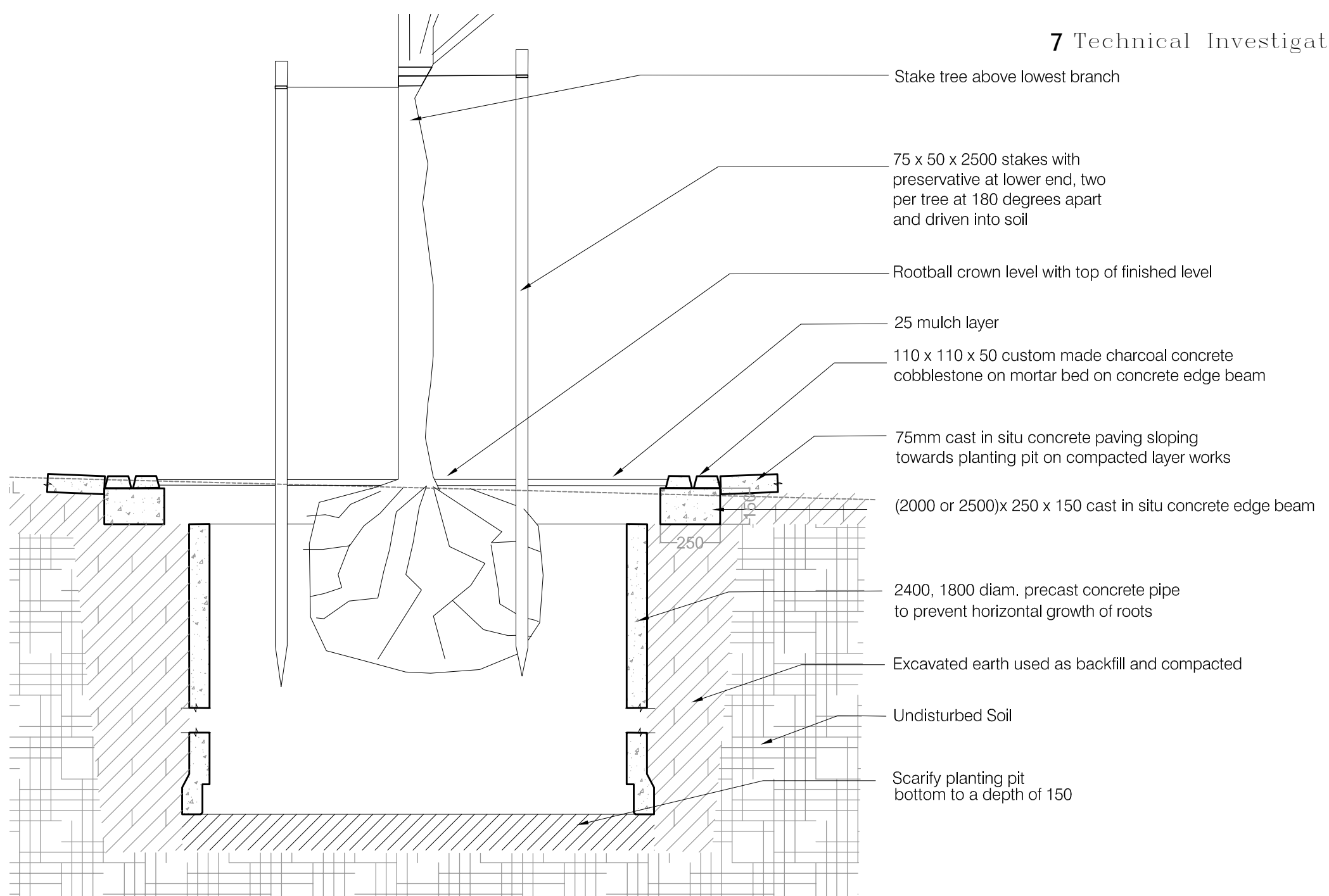
Detail of Concrete Lamp Post



Detail of Typical Tree Planter

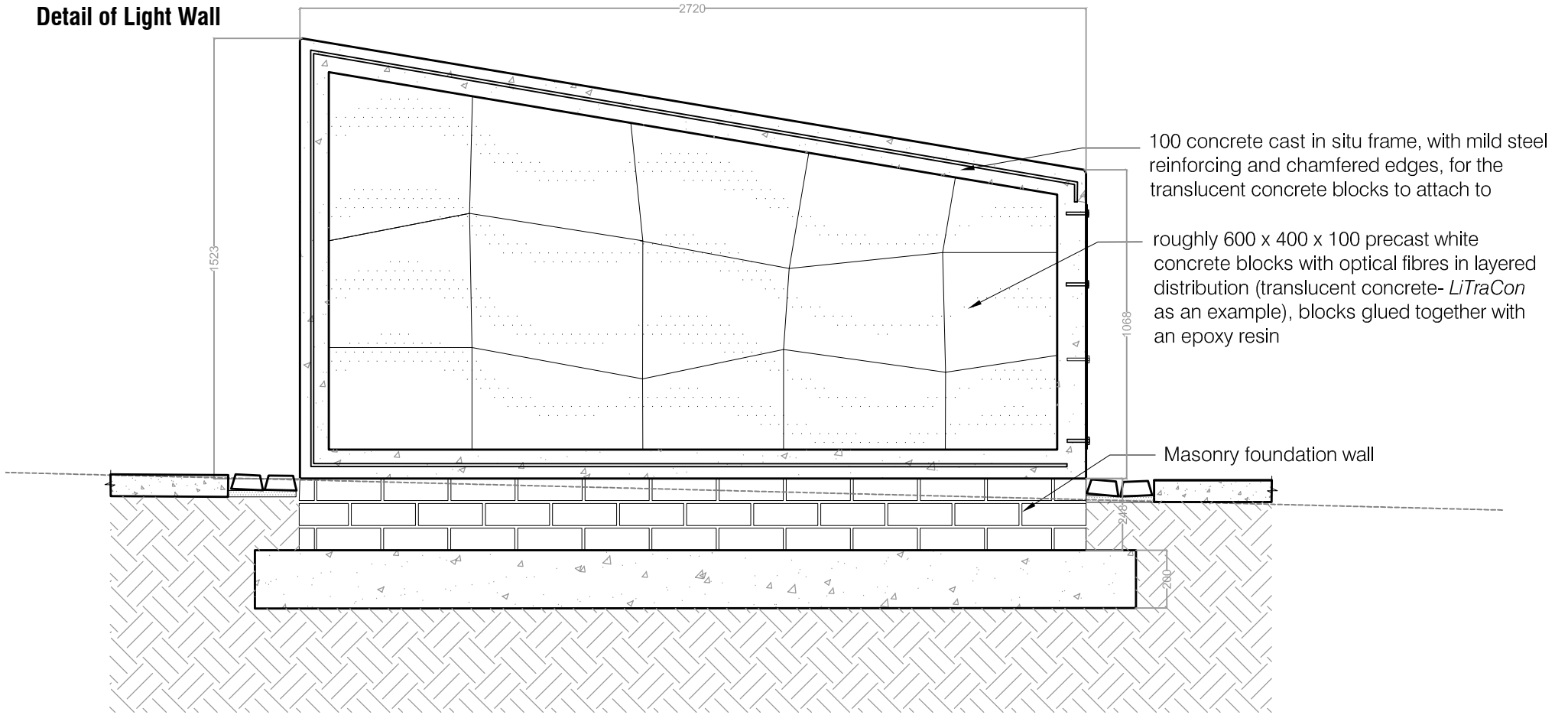


Plan of planter 1:20

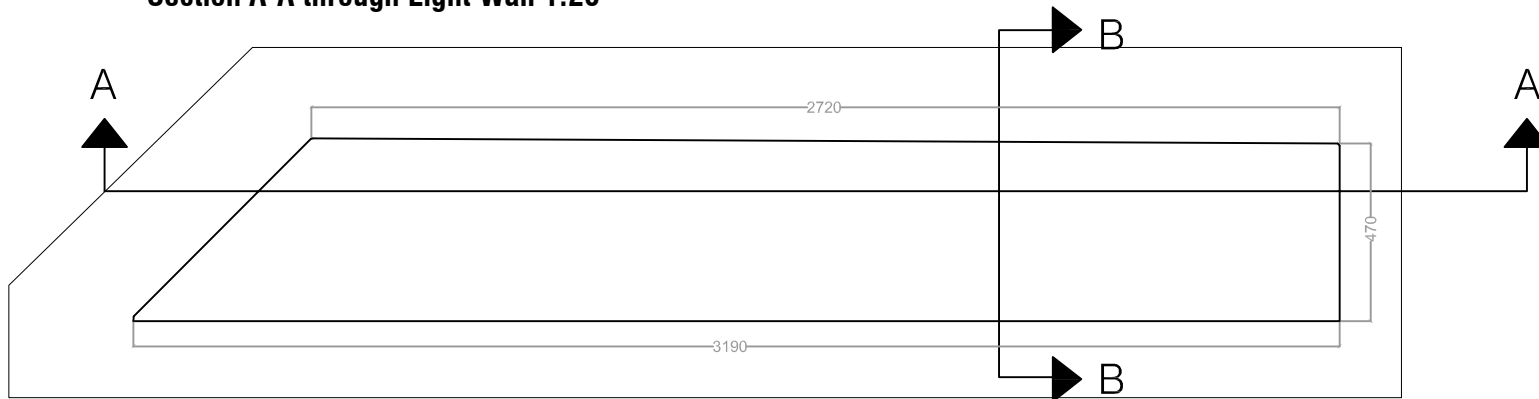


Section A-A through Planter 1:20

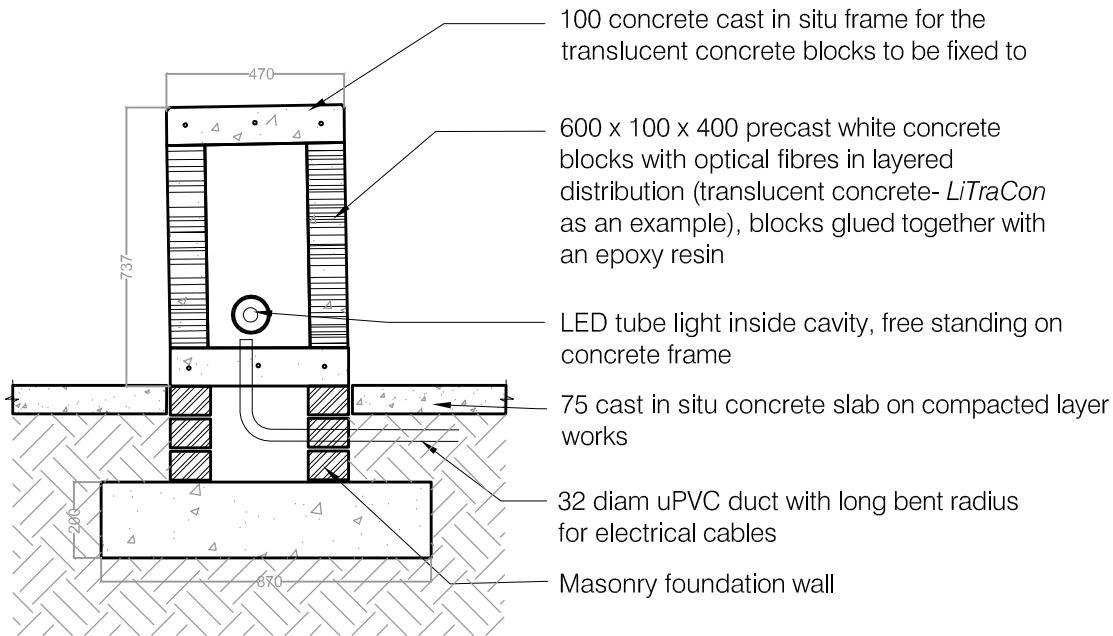
Detail of Light Wall



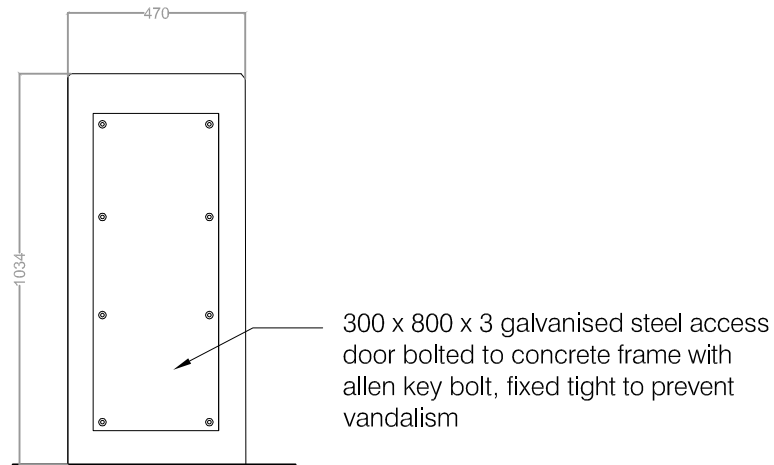
Section A-A through Light Wall 1:20



Plan of Light Wall 1:20

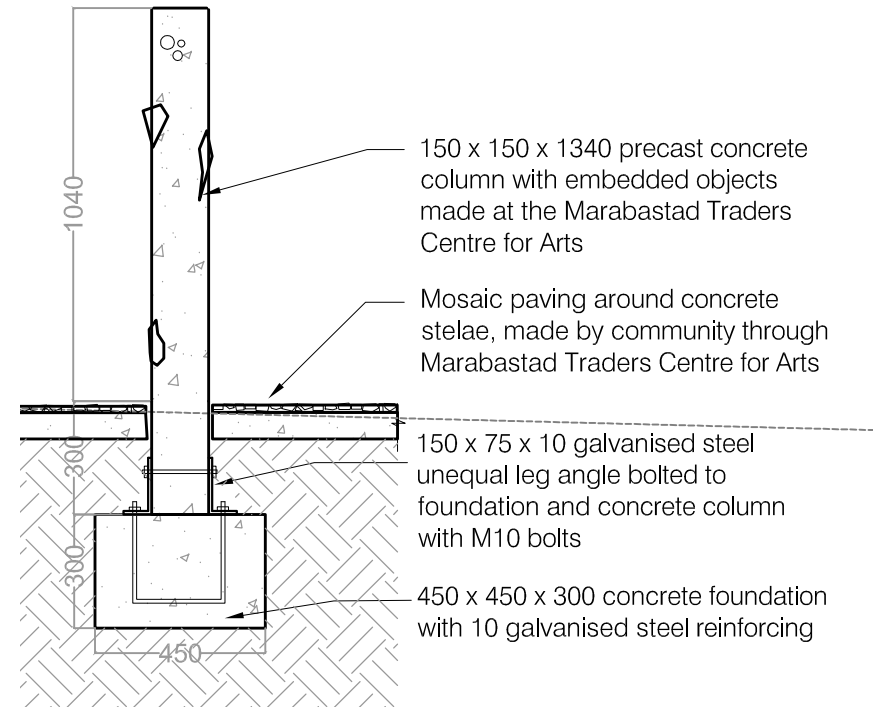


Cross Section B-B through Light Wall 1:20

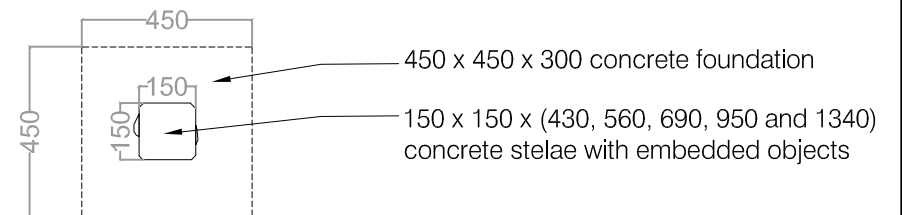


Light wall elevation 1:20

Detail of Concrete Stelae



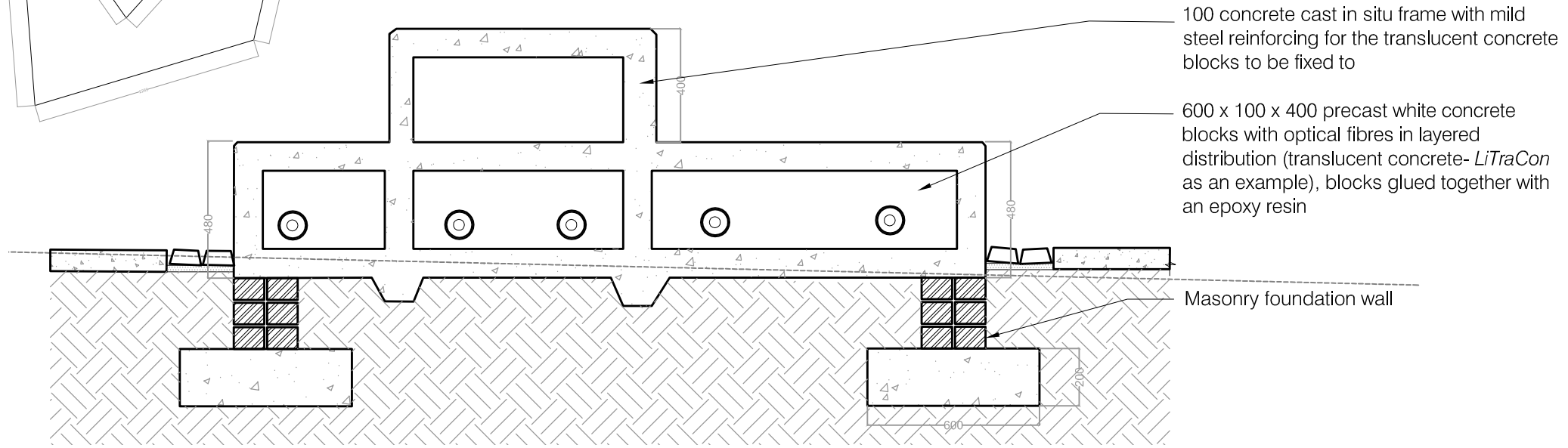
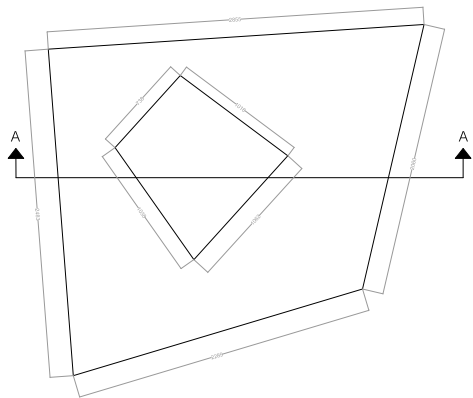
Section through Concrete Stelae 1:20



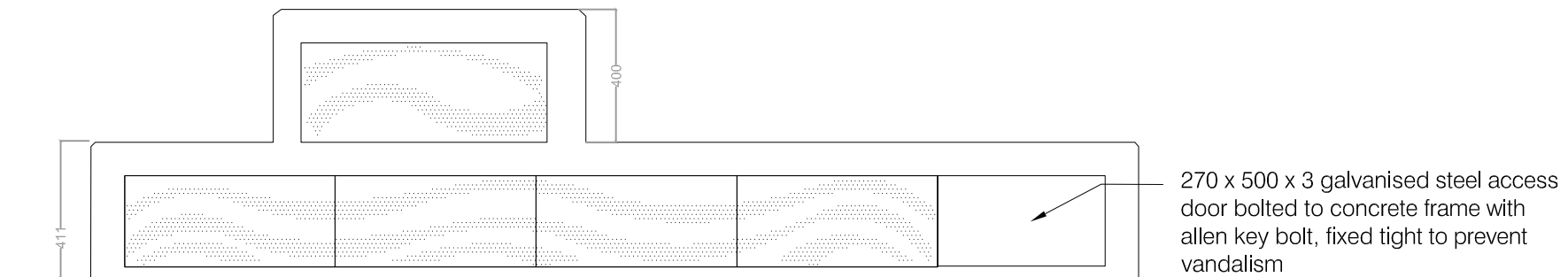
Plan of Concrete Stelae 1:20

Detail of Performance Platform

Plan of Performance Platform (NTS)

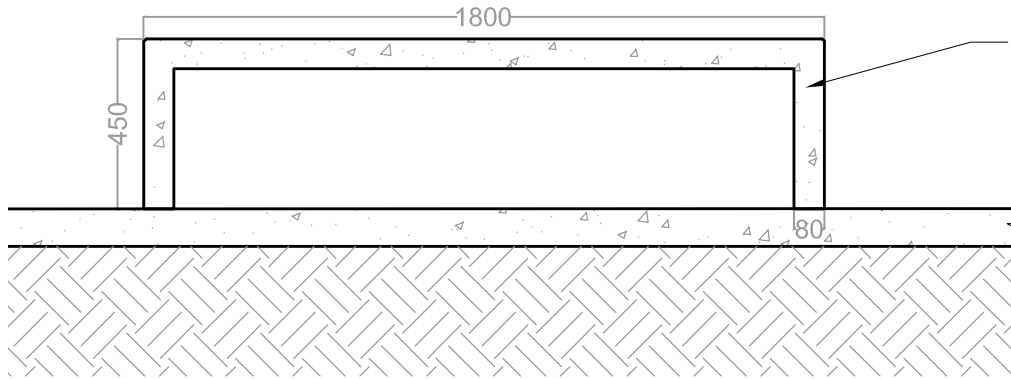


Section A-A through Performance Platform 1:20



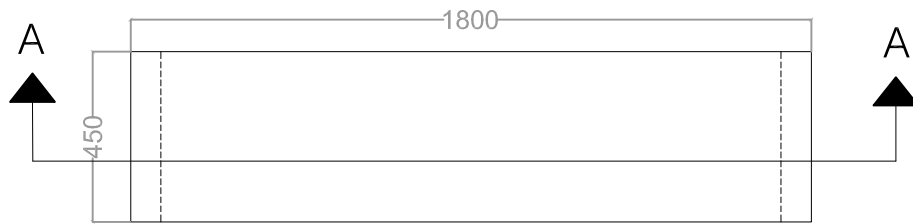
Elevation of Performance Platform 1:20

Detail of Concrete Bench

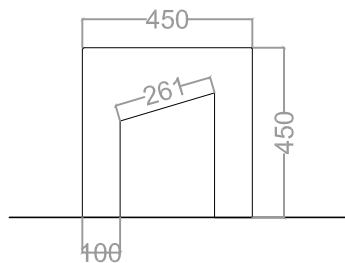


1800 x 450 x 450 precast concrete bench placed on completed paving

Section A-A through Concrete Bench 1:20

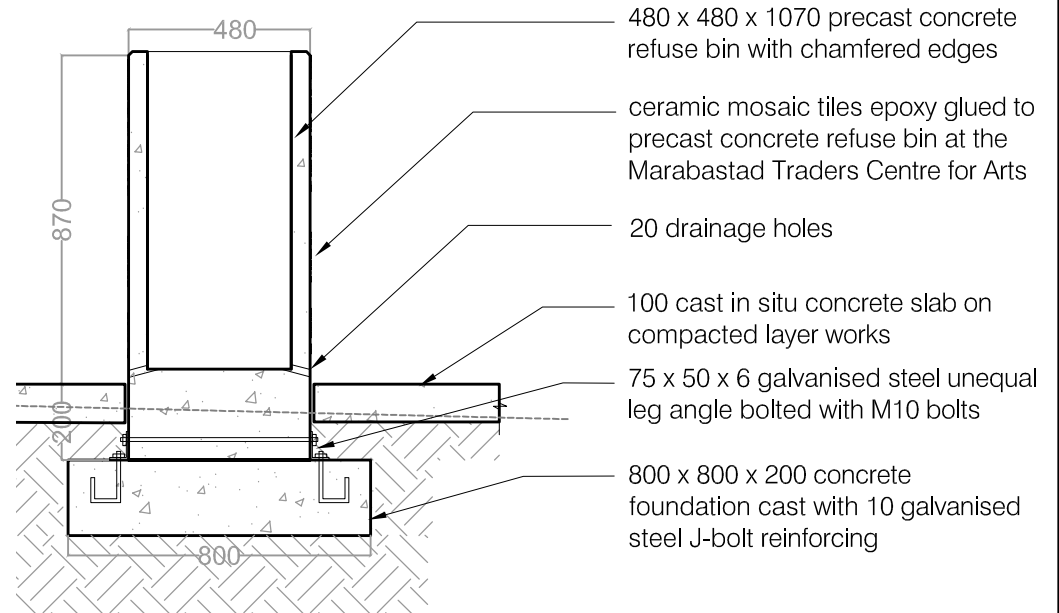


Plan of Concrete Bench 1:20



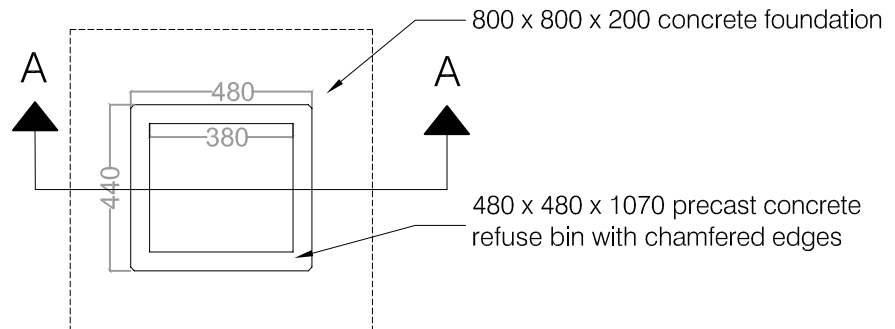
Concrete Bench Elevation 1:20

Detail of Concrete Refuse Bin



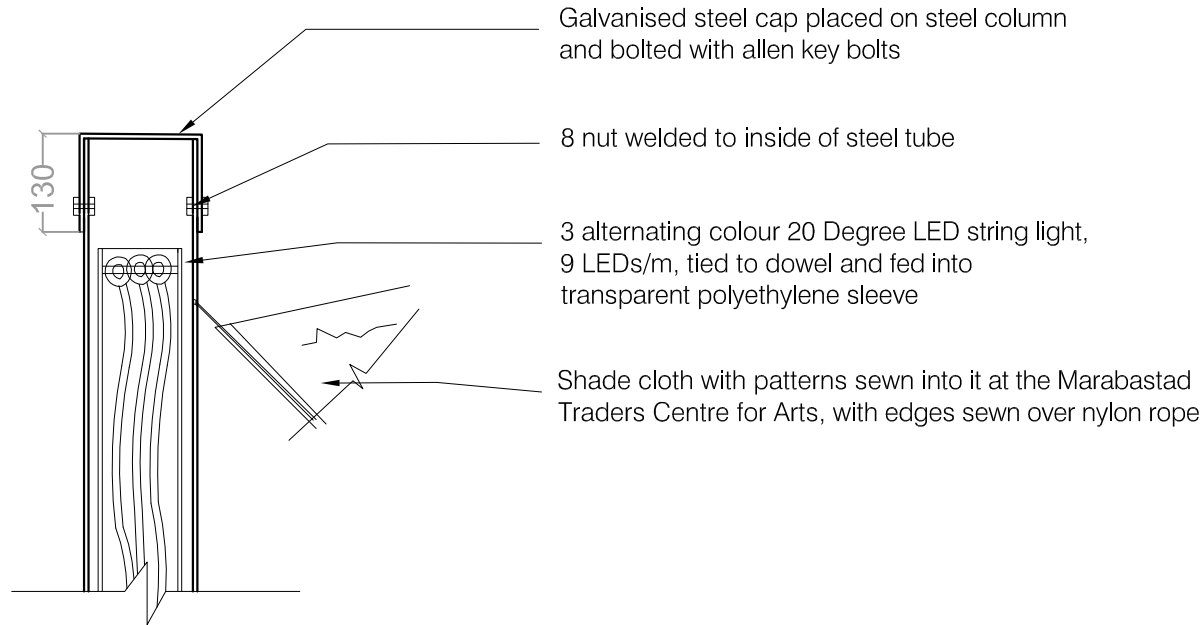
- 480 x 480 x 1070 precast concrete refuse bin with chamfered edges
- ceramic mosaic tiles epoxy glued to precast concrete refuse bin at the Marabastad Traders Centre for Arts
- 20 drainage holes
- 100 cast in situ concrete slab on compacted layer works
- 75 x 50 x 6 galvanised steel unequal leg angle bolted with M10 bolts
- 800 x 800 x 200 concrete foundation cast with 10 galvanised steel J-bolt reinforcing

Section A-A through Concrete Refuse Bin 1:20

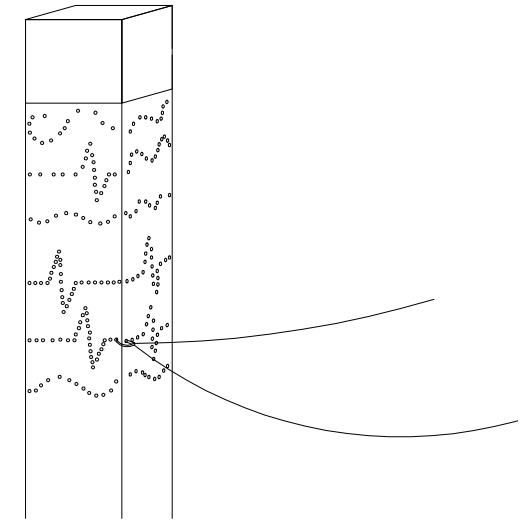


Plan of Concrete Refuse Bin 1:20

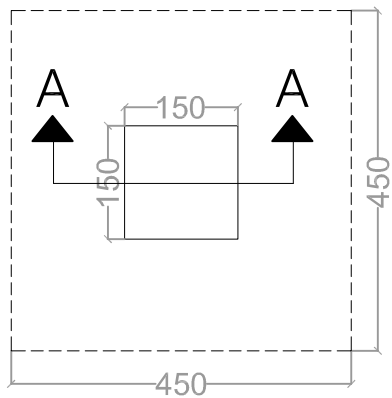
Detail of Steel Light Column



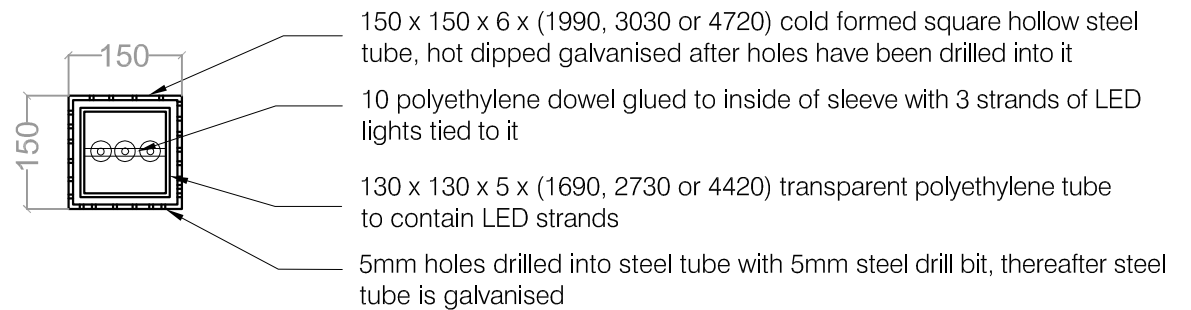
Section A-A: Fixing of Shade Cloth to Steel Light Column 1:10



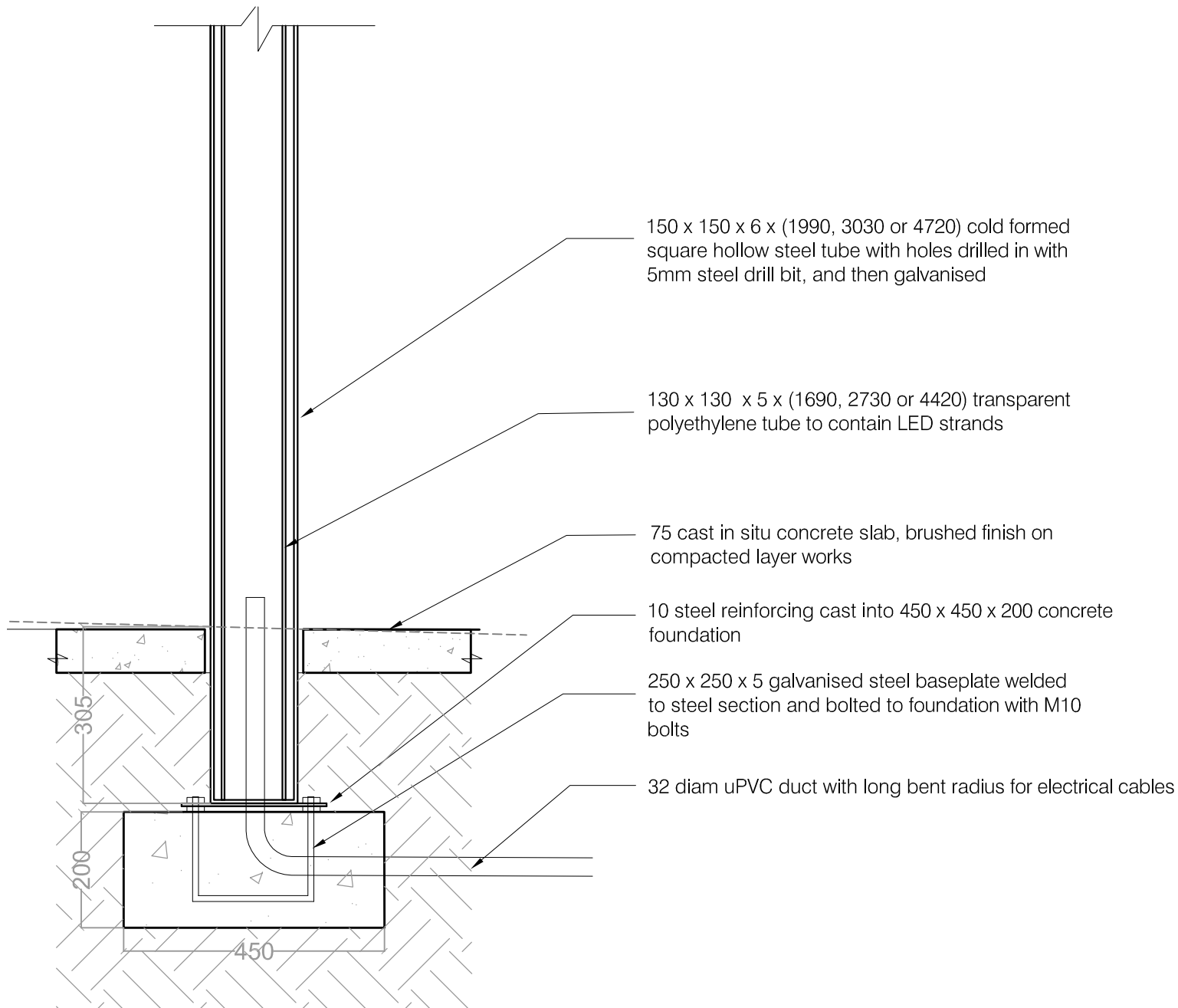
3D of Steel Light Column



Plan of Steel Light Column 1:10



Cross Section through Steel Light Column 1:10



Section A-A through Steel Light Column foundation 1:10