



THE REPUBLIC OF UGANDA



STATE OF CONSERVATION OF THE
TOMBS OF BUGANDA KINGS AT KASUBI (UGANDA)

PROPERTY ID NO C1022

IN RESPONSE TO WHC 38 COM 7A.26

FEBRUARY 2015

WORLD HERITAGE COMMITTEE DECISION

38 COM 7A.26 –adopted at its 38th session (Doha, Qatar 2014) on Tombs of Buganda Kings at Kasubi (Uganda) (C 1022)

4. The World Heritage Centre expressed concern that the detailed information on the planned work and time lines for the reconstruction of Muzibu Azaala Mpanga and its restoration has still not yet been provided even though work on the supportive frame work on the building has been undertaken, therefore;

5. Requested the State Party to implement the recommendations of the ICOMOS Advisory Mission to the property (12-15 May 2014):-

- a) Finalise a realistic, revised reconstruction project time line with clearly defined benchmarks and submit it as matter of urgency to the World Heritage Centre for review by the advisory bodies.
- b) Document the reconstruction process.
- c) Improve organisational skills and equipment and security issues.
- d) Urgently reconvene the National Technical Committee to oversee the technicalities of the reconstruction project.
- e) Fully implement the current governance structure, and reassess the human and financial resources required to complete the reconstruction project, in particular to cover the site manager's full time presence on the property.
- f) Reconsider the current design of the fire fighting system, which will have a negative impact of the visual qualities and spirit of the place of the property.
- g) Agree upon the final master plan, before implementing any new constructions, and reconsider the tall concrete wall recently constructed around the perimeter of the property as well as the 'living museum' concept that may impact negatively on the OUVs of the property.

6) Also requests the State Party to invite

A UNESCO/ ICOMOS /ICCROM reactive monitoring missions to the property to consider the concerns highlighted by the mission relating to:
- the lack of effective management and resources for the reconstruction project, the current draft master plan and its commercialisation projects, and unplanned works such as the perimeter wall and the new buildings.

7) Further request the state party to submit to the World Heritage Centre by 1st February 2015 an updated report on the state of conservation of the property and the implementation of the

above, including a one page executive summary for examination by the World Heritage Committee at its 39th session in 2015.

Introduction

This Progress Report on the State of Conservation of the Tombs of Buganda Kings at Kasubi responds to World Heritage Committee Decisions 38 COM 7A.26 made in Doha, Qatar, 2014. It also provides an update to previous State of Conservation reports submitted to World Heritage Committee, plus other conservation issues identified by the State Party.

Executive summary

This report on the state of conservation of the Tombs of Buganda Kings at Kasubi, a World Heritage Property, responds to World Heritage Committee Decisions 38 COM 7A.26. It also provides update to previous conservation issues raised by World Heritage Committee to the state party.

The State Party finalized the reconstruction project time lines with the view of completion in December 2015 submitted to the World Heritage Centre for review by the advisory bodies. The current reconstruction projects is being documented in detail by the project documentation team in all technical, cultural- tangible and intangible traditional practices ie artefacts rescued during the fire, ongoing traditional practices of emergency works, reconstruction of the twin objects , meetings of traditional mediums and ritual ceremonies that precede the reconstruction . Steps to improve the organization and management of the project have been undertaken, a new and effective chairperson of the Buganda Reconstruction Committee is in place, and has harmonized the different parties on site, and that of the tripartite (State Party, UNESCO and Buganda Kingdom).Also an improvement of the Management structure of the site took place when the Katikkiro of Buganda appointed the Heritage and Tourism Board to manage Kasubi Tombs. However this being a new position calls for review of the management plan. A joint meeting between the Buganda Kingdom, Department of Museums and Monuments, Buganda Heritage and Tourism Board, National Technical Committee and Traditional Management was to harmonize on the management structure.

The unwanted fire fighting equipment on the site is temporary; designs for permanent fire fighting equipment are to be installed with the upcoming phase of thatching supported by the Japanese funds. All equipment's are now on site being fully utilized by the site manager and his team. Security at the Kasubi tombs is coordinated, between traditional guards, Tourism Police, and other government forces. National Technical Committee Meetings resumed in July 2014and monitoring the reconstruction project at fulltime basis.

A National Technical Committee is to coordinate the different proposal to stakeholders for an acceptable master plan. The Museum proposal has been abandoned and grass has been left to grow on the concrete plinth. All new constructions have been put to a halt except for the solar and water projects for sustainability of the site.

The construction of a perimeter wall was to avert the many threats to the conservation of the site,-encroachment by growing population, garbage dumping, trespassing, opium smoking, rape and thefts. The decision was made by Buganda Kingdom in consultation with Government of Uganda and blessed by the King of Buganda. However the front wall covering the entrance (Bujjabukula) and the large esplanade at the site entrance is to be remodeled so as to restore the authenticity of the spatial layout of the property, and also allow custodians to communicate with wider public.

1.0 Responses

1.1. Decision 5 a) Finalise a realistic, revised reconstruction project time line with clearly defined benchmarks and submit it as matter of urgency to the world heritage centre for review by the advisory bodies.

Response

The state party together with its stake holders finalised the reconstruction project time lines with the view of completion in September 2015 and were submitted to the World Heritage Centre for review by the advisory bodies.

Time line has been attached in annex A

1.2 Decision 5 b), Document the reconstruction process

Response

Kasubi Tombs is a unique traditional and cultural site, last underwent major reconstruction in 1938, which reconstruction documentation has greatly informed the current reconstruction project. It is therefore prudent that the current reconstruction process is tediously and detail documented for future resource. The Project architect and his two assistants are undertaking the day today site documentation task, drawings, photography, materials, etc.

Another team undertakes the documentation on cultural and conservation aspects of tangible and the intangible heritage. This includes among others the documentation of the artifacts salvaged during the fire, and the necessary restoration of the affected artifacts. The team also documents on-going traditional practices along the lines of intangible practices, emergency works, reconstruction of the twin objects, meetings of traditional mediums, ritual ceremonies that precede the reconstruction. An archive has been established.

1.3. Decisions 5C, Improve organisational skills and equipment and security issues.

Response

Steps to improve the organisational skills have been undertaken, a new and effective chairperson of the Buganda Reconstruction Committee is in place and has been very instrumental in harmonising the relationships of the different parties on site, and also between the tripartite (i.e, the state party, UNESCO and Buganda Kingdom). All the acquired equipment's are now on site and being fully utilised on a day to day basis by the site manager and his team. Security at the Kasubi tombs is well coordinated, between the traditional custodians, the Tourism Police, and other security Agencies of Government..

1.4 Decision 5 d), Urgently reconvene National Technical Committee (NTC) to oversee the technicalities of the reconstruction project.

Response:

The National Technical Committee meetings resumed in July 2014, it convenes twice in every three months. It is effectively playing its role of ensuring a proper reconstruction takes place with a cardinal goal of restoring the sites OUV.

1.5 Decision 5 e) Fully implement the current governance structure, and reassess the human and financial resources required to complete the reconstruction project, in particular to cover the site manager's full time presence on the property.

Response

To implement the current governance structure steps have been undertaken to streamline the governance management at Kasubi site. The Katikkiro appointed the Heritage and Tourism Board under the Ministry of Royal Tombs, Heritage and Tourism to manage all Tourism sites in Buganda Kingdom, Kasubi Tombs inclusive.

However the Board is a new development, it was not in the management structure of the site. This therefore calls for the review of the management plan.

Joint meetings of Buganda Kingdom, Department of Museums and Monuments, are proposed to start between the, National Technical Committee, The Heritage and Tourism Board and Traditional management of the site so as to review and harmonise the new structure.

1.6 Decision 5 f) Reconsider the current design of the fire fighting system, which will have a negative impact of the visual qualities and spirit of the place of the property.

Response

The Current design in the picture below



Temporary Fire Fighting Equipment

This visible fire fighting system on the site is only temporary. It was installed as part of the emergency plan after the fire. Designs for permanent fire fighting equipment, that are obscured underground and only pop up when this need arises have been elaborated in the electrical and fire fighting design, which is part of the program supported by the Japanese's Funds in trust yet to commence with the thatching phase.

1.7 Decision 5 g) Agree upon the final master plan, before implementing any new constructions, and reconsider the tall concrete wall recently constructed around the perimeter of the property as well as the 'living museum' concept that may impact negatively on the OUVs of the property.

The *draft master* plans that were presented to the UNESCO mission that visited in May 2014 are yet to be discussed by the tripartite. As of now the Museum plan has been abandoned,



The Museum proposal has been abandoned and grass has been left to grow on the concrete plinth that had been laid down.

All new constructions have been put to a halt, except for the solar and water project for the sustainability of the site.

The construction of a wall was a solution to the several threats to the conservation of the site i.e. encroachment on the land by the first growing urban population of the town next to the property, resulting in garbage dumping, trespassing, opium smoking, rape and thefts.

Buganda Kingdom in consultation with the Government of Uganda took a decision to construct the perimeter wall as permanent solution to the above mentioned problem. The action was blessed by the King of Buganda.

However the part of the wall at the front that has covered up the entrance (Bujjabukula) and the former large esplanade at the site entrance is to be remodeled so as to restore the authenticity of the spatial layout of the property, and allow access for custodians to communicate with the public.

Security of the site has further been enhanced with the deployment of the Tourism Police to support the traditional guards of the property.

1.8 6) Also requests the state party to invite a UNESCO/ ICOMOS /ICCROM reactive monitoring missions to the property.

Response

The joint UNESCO mission activities from 4 -6 February 2015. See pictures below





Photos show artisans preparing materials and explaining to visitors the thatching techniques.

2.0 OTHER CONSERVATION ISSUES IDENTIFIED BY STATE PARTY

2.1 UP DATE OF PREVIOUS ISSUES.

This section of the report provides an update of issues identified in previous responses to Decision adopted by World Heritage Committee

i) The Re-Construction of Muzibu Azaala Mpanga

The reconstruction of Muzibu Azaala Mpanga commenced December 2013, following the approved reconstruction strategy by UNESCO-WHC. All issues of concern raised on intangible, tangible and technical aspects have been addressed by the restoration committee. The walling of the tomb house, the columns have all been completed. A specialist with steel works has erected the steel strum roof structure. Fire proof paint has been applied and the house is now ready for the thatching phase.

Muzibu Azaala Mpanga progress on reconstruction



2010

2013

2015

The traditional artisan's works on the roof ceiling have commenced with the first three central rings in the house, they are now busy weaving the strings that are meticulously tied to make the ring as being demonstrated below.



Photo showing ring demonstration of central rings

(ii)The Perimeter Wall



Outside

Inside

This is the perimeter wall both outside and inside.

Furthermore the site manager is to coordinate a program for replacement of the missing boundary trees on the perimeter wall.

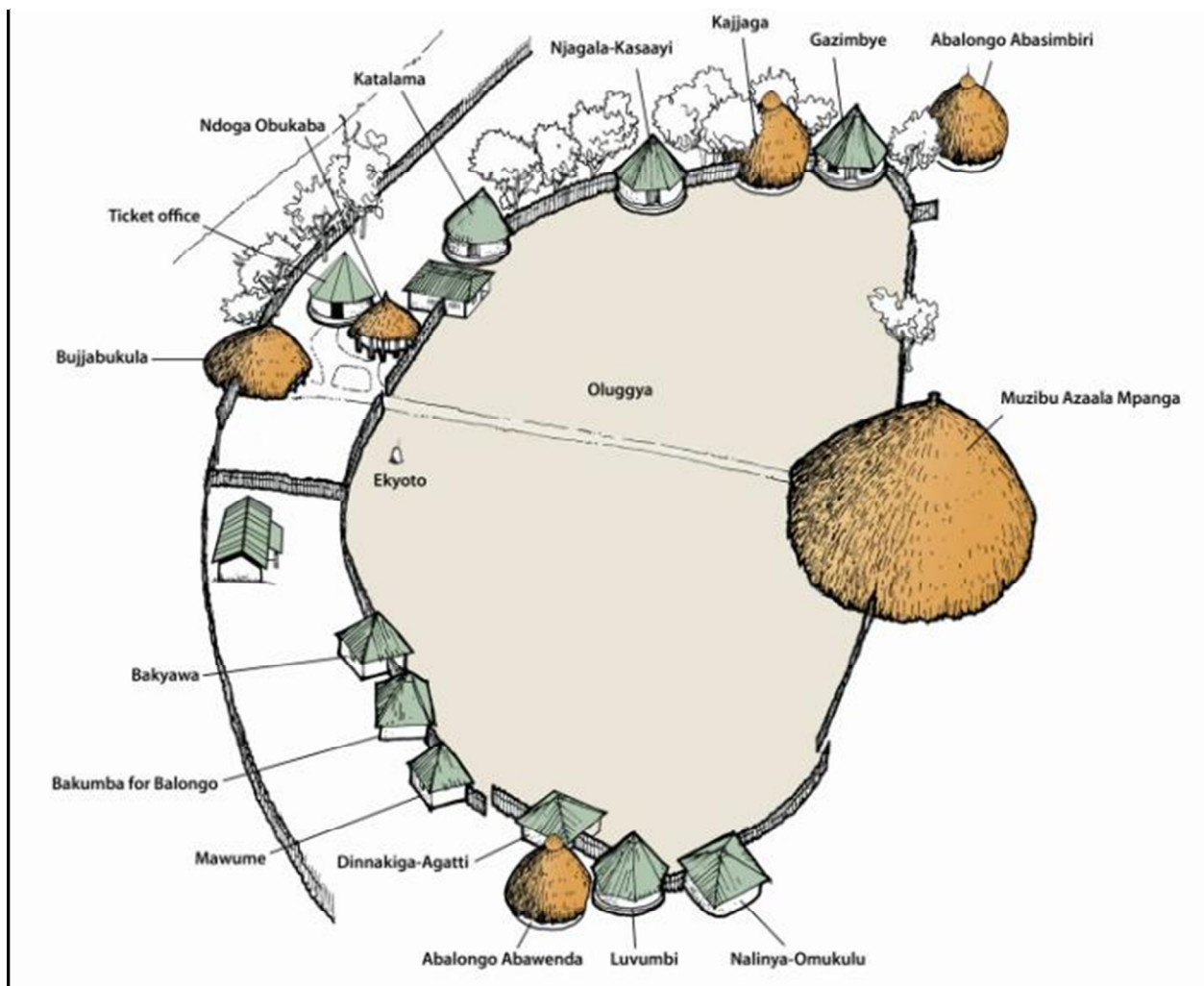
(iii)The Balongo Houses

Three thatched roofs houses have been constructed at the site, these are popularly known as

“twin houses” (*BalongoBalongo Bawenda and Kajjaga*) are for store the ‘twins artifacts’ umbilical cords that were rescued from the Muzibu Azaala Mpanga during the fire, and the dress house Kajjaga is for ritual preparation and dressing of the twins carried out autonomously, was thus matter of urgency. However as observed by the November 2010 mission report, these may have been done in a hurry and therefore exhibiting poor workmanship.

To address the concern the three houses thatch roof were restored by the artisans and are now in good condition.

(IV)THE REMODELLING OF WIVES HOUSES



As a result of deterioration of the conservation of the site, several of the courtyard houses were roofed by green iron sheets around the 1970s. Which is not in symbolic of the Ganda traditional architecture? Part of the program of the Buganda Reconstruction Committee is to remodel all the houses to their original status so as to restore the OUVs of the site; the program has started with *Gazimbye* as seen below.



Gazimbye before



Gazimbye after being remodelled

The Solar Plant and Power house



A solar plant introduced to reduce on the huge cost of hydro power for the site.



The Borehole

Water is an essential and integral part for the conservation of the site and hope with this borehole already in place and a water reservoir yet to be constructed will be a big boost to the sustainable development of the site.

The private Entrance has been remonstrated now look like this.



Kaddulubale's house Restored.



Before Restoration



after Restoration

ID	Task Name	Duration	Start	Finish	Aug 4, '13							Aug 11, '13							Aug 18, '13							Aug 25, '13							Sep 1, '13						
					T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W
1	Site possession	0 days	Mon 1/21/13	Mon 1/21/13																																			
2	Mobilisation period	28 days	Mon 2/4/13	Wed 3/13/13																																			
3	Cultural rituals	14 days	Mon 2/11/13	Thu 2/28/13																																			
4	Open air exhibition of the site	264 days	Fri 2/1/13	Wed 2/5/14																																			
5																																							
6	PRELIMINARIES	90 days	Mon 3/11/13	Fri 7/12/13																																			
7	Hoarding Muzibu Azaala Mpanga	7 days	Mon 3/11/13	Tue 3/19/13																																			
8	Construction of Permanent Public Toilets	60 days	Wed 3/20/13	Tue 6/11/13																																			
9	Construction of drying sheds	15 days	Mon 6/24/13	Fri 7/12/13																																			
10	renovation of Access road to parking	6 days	Thu 5/9/13	Thu 5/16/13																																			
11	Construction of road to mosque	30 days	Mon 5/6/13	Fri 6/14/13																																			
12	Construction of fire fighting water tank platforms	14 days	Mon 6/24/13	Thu 7/11/13																																			
13	Reed Fence	37 days	Mon 5/6/13	Tue 6/25/13																																			
14	Plinth walling	7 days	Mon 5/13/13	Tue 5/21/13																																			
15	Metal work	7 days	Mon 5/13/13	Tue 5/21/13																																			
16	Reed work	30 days	Wed 5/15/13	Tue 6/25/13																																			
17		1 day?	Tue 1/1/13	Tue 1/1/13																																			
18	MUZIBU AZAALA MPANGA	1 day	Tue 1/1/13	Tue 1/1/13																																			
19	Dismantling weak elements	1 day	Tue 1/1/13	Tue 1/1/13																																			
20	Columns	412 days	Tue 3/5/13	Tue 9/30/14																																			
21	Soil testing	1 day	Tue 3/5/13	Tue 3/5/13																																			
22	Excavating sample footing of R.C column	1 day	Fri 3/29/13	Fri 3/29/13																																			
23	Demolition of front 6 columns	7 days	Fri 3/29/13	Mon 4/8/13																																			
24	Demolition of the 8 back columns to a height of 1.5m	1 day	Mon 4/1/13	Mon 4/1/13																																			
25	Dismantling of cross beam over dias	7 days	Wed 6/19/13	Thu 6/27/13																																			
26	Demolitions of four columns at dias	1 day	Tue 6/25/13	Tue 6/25/13																																			
27	Centre allocation by GPS	1 day	Fri 5/17/13	Fri 5/17/13																																			
28	Allocation of new circle centres	1 day	Mon 5/20/13	Mon 5/20/13																																			
29	Preparation of 14 column bases	14 days	Thu 6/20/13	Tue 7/9/13																																			
30	Preparation of steel and formwork	14 days	Thu 6/20/13	Tue 7/9/13																																			
31	Testing material to be used	1 day	Wed 6/19/13	Wed 6/19/13																																			
32	Casting by ready mix method	1 day	Wed 7/3/13	Wed 7/3/13																																			
33	Setting period	28 days	Wed 7/10/13	Fri 8/16/13																									100%										
34	Removal of formwork	1 day	Mon 8/19/13	Mon 8/19/13																																			
35	Grouting column tops to level	1 day	Tue 9/30/14	Tue 9/30/14																																			
36	Okusimba empagi	1 day	Thu 5/16/13	Thu 5/16/13																																			
37	Walls	457 days	Tue 1/1/13	Tue 9/30/14																																			
38	Plumb check for internal walls	2 days	Mon 6/3/13	Tue 6/4/13																																			
39	Careful necessary demolitions for internal walls	1 day	Wed 4/24/13	Wed 4/24/13																																			
40	Plumb check for main wall every 1.5m	1 day	Mon 6/3/13	Mon 6/3/13																																			
41	identification of areas to be rectified	1 day	Tue 6/4/13	Tue 6/4/13																																			

Project: jan15
Date: Thu 2/5/15

Critical



Task



Baseline



Milestone



Project Summary



Deadline



Critical Split



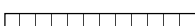
Split



Baseline Split



Summary Progress



External Tasks



Critical Progress



Task Progress



Baseline Milestone



Summary



External Milestone



ID	Task Name	Duration	Start	Finish	Aug 4, '13							Aug 11, '13							Aug 18, '13							Aug 25, '13							Sep 1, '13							
					T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T
42	Preparation of as-is drawings	1 day	Tue 6/4/13	Tue 6/4/13																																				
43	Demolitions on main wall	7 days	Wed 6/19/13	Thu 6/27/13																																				
44	Approval of brick samples	1 day	Wed 6/26/13	Wed 6/26/13																																				
45	making good brick work as required	14 days	Wed 6/26/13	Mon 7/15/13																																				
46	Reconstruction of any new walls	18 days	Wed 6/26/13	Fri 7/19/13																																				
47	Removal of damaged plaster	7 days	Wed 6/19/13	Thu 6/27/13																																				
48	Fitting of windows as per existing specs	27 days	Tue 1/1/13	Wed 2/6/13																																				
49	Final course of brickwork to hold timber	5 days	Wed 9/24/14	Tue 9/30/14																																				
50	Plaster sample and approvals	2 days	Tue 1/1/13	Wed 1/2/13																																				
51	Replastering internal walls and inner main wall	21 days	Mon 7/22/13	Mon 8/19/13	<div><div></div><div>10%</div></div>																																			
52	paint earth brown on walls	3 days	Tue 1/1/13	Thu 1/3/13																																				
53	Splash apron	382 days	Mon 7/22/13	Mon 1/5/15																																				
54	sample excavations to determine foundations	1 day	Mon 7/22/13	Mon 7/22/13																																				
55	excavation for new foundations	3 days	Tue 7/23/13	Thu 7/25/13																																				
56	new brick retaining wall	3 days	Fri 7/26/13	Tue 7/30/13	%																																			
57	Opening parts of external veranda damaged by fire	7 days	Wed 7/31/13	Thu 8/8/13	<div><div></div><div>100%</div></div>																																			
58	removal of damaged screed and layer of soil	3 days	Thu 8/1/13	Mon 8/5/13	<div><div></div><div>100%</div></div>																																			
59	new layer of soil and compaction	3 days	Mon 8/5/13	Wed 8/7/13																																				
60	BRC and screed layer application	3 days	Thu 8/8/13	Mon 8/12/13																																				
61	construction of new extension to splash apron	7 days	Tue 8/13/13	Wed 8/21/13																																				
62	application of red oxide on the extension	1 day	Mon 1/5/15	Mon 1/5/15																																				
63																																								
64	Dias	14 days	Tue 9/9/14	Fri 9/26/14																																				
65	Construction of the beam on four columns on dias and partition walls	7 days	Tue 9/9/14	Wed 9/17/14																																				
66	necessary demolitions of screed work	7 days	Thu 9/18/14	Fri 9/26/14																																				
67	Identification and implementation of Dias repairs	7 days	Thu 9/18/14	Fri 9/26/14																																				
68	Making good brick frame step up to dais	2 days	Thu 9/18/14	Fri 9/19/14																																				
69																																								
70	Main entrance	498 days	Mon 3/4/13	Tue 1/27/15																																				
71	Arches	44 days	Tue 8/5/14	Fri 10/3/14																																				
72	Measurements and drawings (architectural and structural)	4 days	Tue 8/5/14	Fri 8/8/14																																				
73	Template formation for side and front entrances	4 days	Mon 9/15/14	Thu 9/18/14																																				
74	Approvals by Architect	1 day	Fri 9/19/14	Fri 9/19/14																																				

Project: jan15
Date: Thu 2/5/15

Critical

Critical Split

Critical Progress

Task

Split

Task Progress

Baseline

Baseline Split

Baseline Milestone

Milestone

Summary Progress

Summary

Project Summary

External Tasks

External Milestone

Deadline

Page 2

ID	Task Name	Duration	Start	Finish	Aug 4, '13							Aug 11, '13							Aug 18, '13							Aug 25, '13							Sep 1, '13						
					T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W
79	Plaster and paint (terracotta colour)	4 days	Tue 9/30/14	Fri 10/3/14																																			
80																																							
81	Floor slab repairs	3 days	Mon 10/6/14	Wed 10/8/14																																			
82																																							
83	M&E WORKS	194 days	Thu 5/1/14	Tue 1/27/15																																			
84	Fire fighting emergency works	7 days	Thu 5/1/14	Fri 5/9/14																																			
85	Design and drawings production	30 days	Wed 5/1/13	Tue 6/11/13																																			
86	Quotation from contractor and approvals	30 days	Wed 10/2/13	Tue 11/12/13																																			
87	Plinth construction	7 days	Tue 12/3/13	Wed 12/11/13																																			
88	Emergency Tanks procurement	3 days	Tue 2/4/14	Thu 2/6/14																																			
89	Installation of emergency fire fighting equipment	14 days	Thu 5/1/14	Tue 5/20/14																																			
90	Fire prevention works	28 days	Thu 10/2/14	Mon 11/10/14																																			
91	Identification of fire prevention manager	7 days	Wed 6/19/13	Thu 6/27/13																																			
92	Disaster training program	14 days	Mon 6/30/14	Thu 7/17/14																																			
93	Organisation and implementation of fire extinguishing simulation	7 days	Thu 7/17/14	Fri 7/25/14																																			
94	Fire extinguisher installation	7 days	Mon 3/4/13	Tue 3/12/13																																			
95	Approvals by UNESCO/Japan	14 days	Mon 11/10/14	Thu 11/27/14																																			
96	Tender process and award of Contract	28 days	Fri 11/28/14	Tue 1/6/15																																			
97	Construction	60 days	Wed 11/5/14	Tue 1/27/15																																			
98	Water reticulation on site	60 days	Wed 11/5/14	Tue 1/27/15																																			
99	Specification & fabrication of reserve tanks	14 days	Wed 11/5/14	Mon 11/24/14																																			
100	Earth wire installation for lightning	2 days	Mon 12/1/14	Tue 12/2/14																																			
101	Electrical reticulation works 1st fix	7 days	Thu 1/1/15	Sun 1/11/15																																			
102	Electrical works 2nd fix (sockets & lights)	7 days	Mon 1/12/15	Tue 1/20/15																																			
103	final commissioning of electrical works	7 days	Mon 1/19/15	Tue 1/27/15																																			
104	ROOF	372 days	Thu 6/13/13	Thu 11/13/14																																			
105	Procurement of all structural timber	329 days	Thu 6/13/13	Mon 9/15/14																																			
106	Supply of the initial 2 months vegetal materials: spear grass, reeds, etc)	35 days	Mon 7/15/13	Fri 8/30/13																																		100%	
107	Fabrication of all steel roof members including vent	50 days	Thu 1/2/14	Wed 3/12/14																																			
108	Delivery of steel roof members to site and fix on concrete columns	14 days	Fri 3/28/14	Wed 4/16/14																																			
109	Fixing additional nuts on steel bases at column tops	1 day	Tue 9/30/14	Tue 9/30/14																																			
110	Grouting of bases: procurement of sample (epoxy), approvals by Structural Engineer and	2 days	Mon 9/29/14	Tue 9/30/14																																			
111	Steel primer application	4 days	Fri 10/3/14	Wed 10/8/14																																			
112	Procurement of intumescent coating for steel/quotations and approvals	30 days	Wed 9/17/14	Tue 10/28/14																																			
113	Application of intumescent coating on steel	7 days	Thu 10/30/14	Fri 11/7/14																																			
114	Application of final layer of paint on steel	4 days	Mon 11/10/14	Thu 11/13/14																																			

Project: jan15
Date: Thu 2/5/15

Critical

Critical Split

Critical Progress

Task

Split

Task Progress

Baseline

Baseline Split

Baseline Milestone

Milestone

Summary Progress

Summary

Project Summary

External Tasks

External Milestone

Deadline

ID	Task Name	Duration	Start	Finish	Aug 4, '13							Aug 11, '13							Aug 18, '13							Aug 25, '13							Sep 1, '13						
					T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W
115	Subframe designs and drawings (if required)	7 days	Thu 9/4/14	Fri 9/12/14																																			
116	Subframe fabrication	7 days	Tue 9/16/14	Wed 9/24/14																																			
117	Subframe installation	3 days	Fri 9/26/14	Tue 9/30/14																																			
118	Timber inspections and approvals	1 day	Wed 6/25/14	Wed 6/25/14																																			
119	Kiln drying for approved timbers	14 days	Fri 6/27/14	Wed 7/16/14																																			
120	Joinery and erection samples and approvals	1 day	Mon 7/21/14	Mon 7/21/14																																			
121	fitting of all structural timber	14 days	Thu 7/17/14	Tue 8/5/14																																			
122	Supply and fix short makhabia poles to support mivule overhangs	7 days	Thu 7/3/14	Fri 7/11/14																																			
123	Fixing battens	7 days	Wed 8/6/14	Thu 8/14/14																																			
124	PUBLIC RELATIONS ACTIVITIES	2 days	Mon 8/18/14	Tue 8/19/14																																			
125	Various rituals to be performed	7 days	Tue 8/19/14	Wed 8/27/14																																			
126	Completion of final roofing frame/skeleton	14 days	Wed 8/6/14	Mon 8/25/14																																			
127	THATCHWORKS	443 days?	Thu 12/19/13	Fri 8/28/15																																			
128	Various rituals to be performed	7 days	Tue 8/19/14	Wed 8/27/14																																			
129	Mobilization of vegetal materials drive	365 days	Thu 12/19/13	Tue 5/12/15																																			
130	sample of first rings to determine support system	7 days	Fri 8/15/14	Mon 8/25/14																																			
131	determination of 52 rings placement methodolodi	14 days	Wed 9/3/14	Mon 9/22/14																																			
132	Nsambya purlins placement	14 days	Mon 11/17/14	Thu 12/4/14																																			
133	Surface reeds	14 days	Mon 11/24/14	Thu 12/11/14																																			
134	Structural thatch beams (15mm dia)	21 days	Fri 12/5/14	Fri 1/2/15																																			
135	Upper surface reeds	14 days	Mon 1/5/15	Thu 1/22/15																																			
136	Grass bundles to thatch as per Wabulakayole's approval	21 days	Fri 1/23/15	Fri 2/20/15																																			
137	Reed preparation (cleaning), placement	354 days	Mon 2/3/14	Wed 6/10/15																																			
138	Preparation of grass bundles, placement	322 days	Fri 3/7/14	Fri 5/29/15																																			
139	Structural reed works on external roof overhang	19 days	Mon 6/1/15	Thu 6/25/15																																			
140	Thatching works	130 days?	Mon 3/2/15	Fri 8/28/15																																			
141	Various rituals to be performed	19 days	Mon 6/1/15	Thu 6/25/15																																			
142	Internal ceiling works	39 days	Fri 6/26/15	Wed 8/19/15																																			
143	reed web ceiling	14 days	Fri 6/26/15	Wed 7/15/15																																			
144	Circular reed bundles with palm frawns tied with binding wire	9 days	Thu 7/16/15	Tue 7/28/15																																			
145	Completion of decorative ceiling rings	7 days	Wed 7/29/15	Thu 8/6/15																																			
146	timber poles to support ceiling	15 days	Fri 6/26/15	Thu 7/16/15																																			
147	PUBLIC RELATIONS ACTIVITIES	7 days	Fri 6/26/15	Mon 7/6/15																																			
148	Various rituals to be performed	19 days	Tue 6/30/15	Fri 7/24/15																																			
149	Main entrance with sliding door -cleaning reeds	5 days	Mon 7/27/15	Fri 7/31/15																																			
150	bending of reeds at correct angles	5 days	Mon 8/3/15	Fri 8/7/15																																			
151	Use of cane and fibre to tie together reed structure, entrance beam/ decorative	8 days	Mon 8/10/15	Wed 8/19/15																																			
152	Internal finishes	15 days	Mon 8/10/15	Fri 8/28/15																																			

Project: jan15
Date: Thu 2/5/15

Critical

Critical Split

Critical Progress

Task

Split

Task Progress

Baseline

Baseline Split

Baseline Milestone

Milestone

Summary Progress

Summary

Project Summary

External Tasks

External Milestone

Deadline

ID	Task Name	Duration	Start	Finish				Aug 4, '13							Aug 11, '13							Aug 18, '13							Aug 25, '13							Sep 1, '13				
					T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T
153	floor dressing- bark cloth	3 days	Mon 8/10/15	Wed 8/12/15																																				
154	floor dressing -lemon grass	5 days	Thu 8/13/15	Wed 8/19/15																																				
155	Decorative floor slab(emikeeka)	5 days	Thu 8/20/15	Wed 8/26/15																																				
156	wall dressing -bark cloth curtains	2 days	Thu 8/27/15	Fri 8/28/15																																				
157	Cleansing (Kunyokeza) of the building interior - Smoking of the building interiors	0.5 days	Mon 8/31/15	Mon 8/31/15																																				
158	Objects/Regalia - Spears damaged to have remedial works carried out	7 days	Tue 9/1/15	Wed 9/9/15																																				
159	Copper spears lost to be recast as per records	10.5 days	Wed 9/2/15	Wed 9/16/15																																				
160	Medals to be obtained from specialist medal suppliers	7.5 days	Mon 9/14/15	Wed 9/23/15																																				
161	Photographs to be obtained from Uganda Museum	5.25 days	Wed 9/2/15	Wed 9/9/15																																				
162	New shields to be supplied and initiation ceremonies to accompany works	5.25 days	Wed 9/16/15	Wed 9/23/15																																				
163	Drums destroyed to be made:-Musiba lusonso drums (long drum with snake)	3.5 days	Tue 9/15/15	Fri 9/18/15																																				
164	Two groups of drums for new moon festivals & special occassions	3.5 days	Mon 9/21/15	Thu 9/24/15																																				
165	Rituals	15 days	Mon 9/28/15	Fri 10/16/15																																				
166	PUBLIC RELATIONS ACTIVITIES	18 days	Thu 10/1/15	Mon 10/26/15																																				
167																																								
168	Conclusion	216 days	Fri 1/2/15	Fri 10/30/15																																				
169	Completion of Balongo houses	48 days	Tue 1/6/15	Thu 3/12/15																																				
170	Refurbishment of courtyard homes	72 days	Wed 6/17/15	Thu 9/24/15																																				
171	Replanting missing ficus trees around boundary	30 days	Thu 6/6/13	Wed 7/17/13																																				
172	External works - Compacted laterite works for storm water drainage	14 days	Thu 10/1/15	Tue 10/20/15																																				
173	Hand over home to Custodian	1 day	Wed 10/28/15	Wed 10/28/15																																				
174	FINAL INSPECTION	1 day	Fri 10/30/15	Fri 10/30/15																																				
175	OPENING CEREMONY	1 day	Fri 10/30/15	Fri 10/30/15																																				

Project: jan15
Date: Thu 2/5/15

Critical

Critical Split

Critical Progress

Task

Split

Task Progress

Baseline

Baseline Split

Baseline Milestone

Milestone

Summary Progress

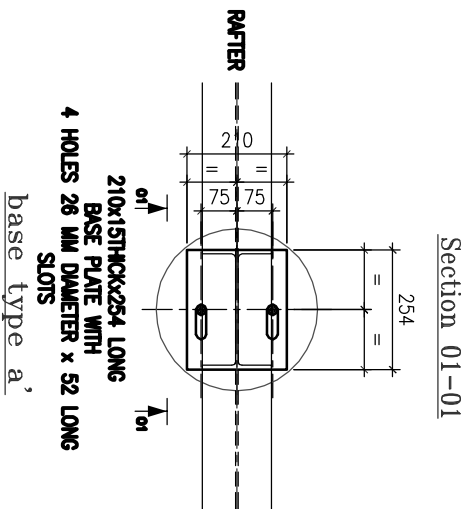
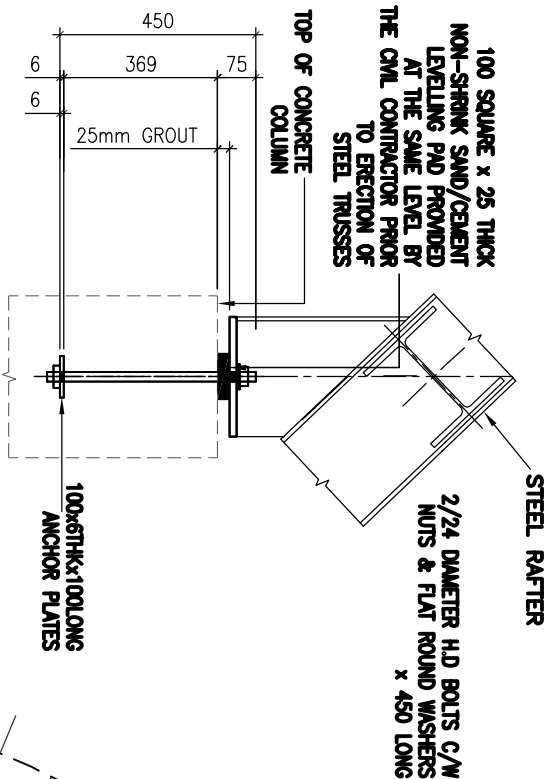
Summary

Project Summary

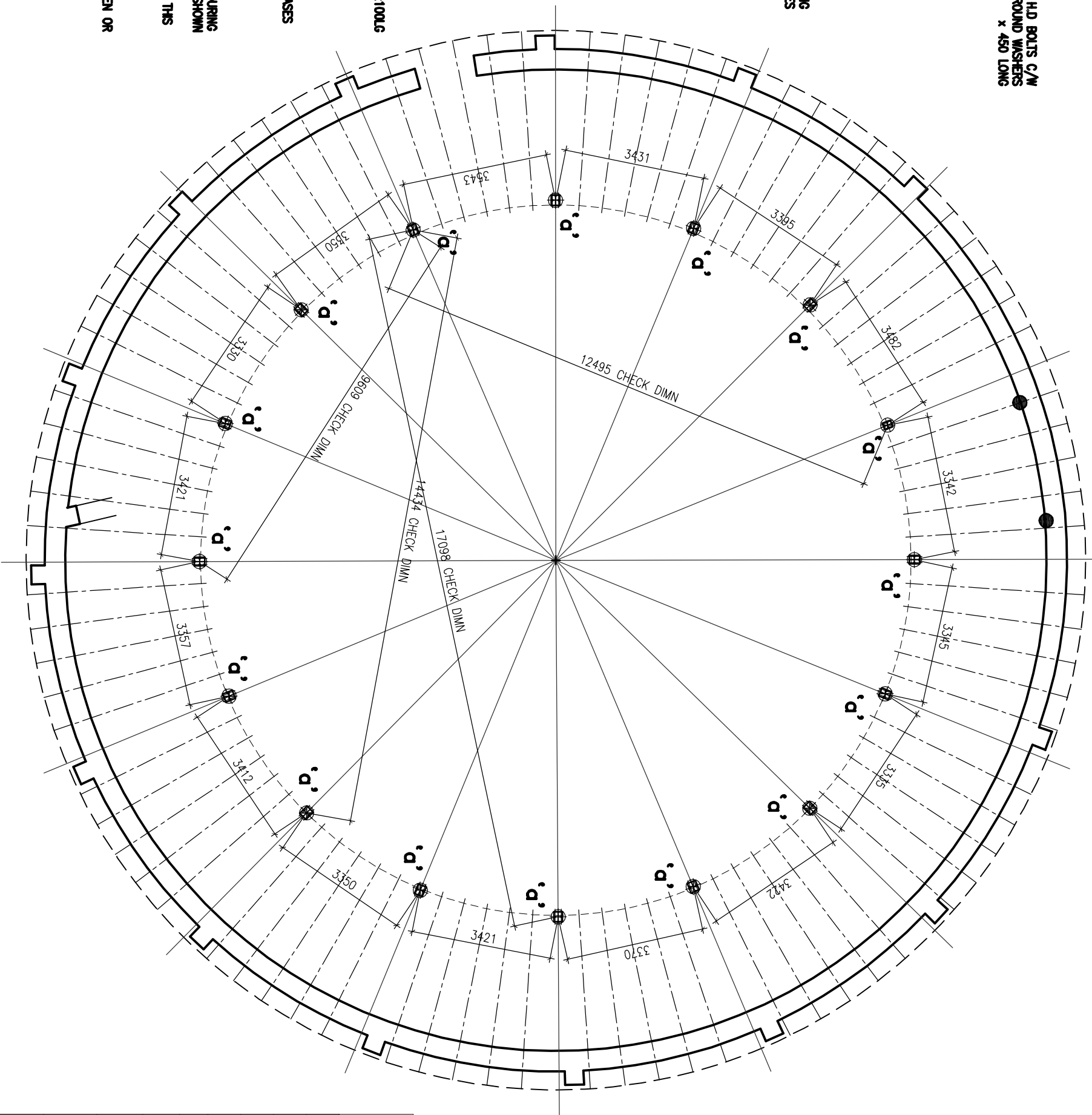
External Tasks

External Milestone


Deadline



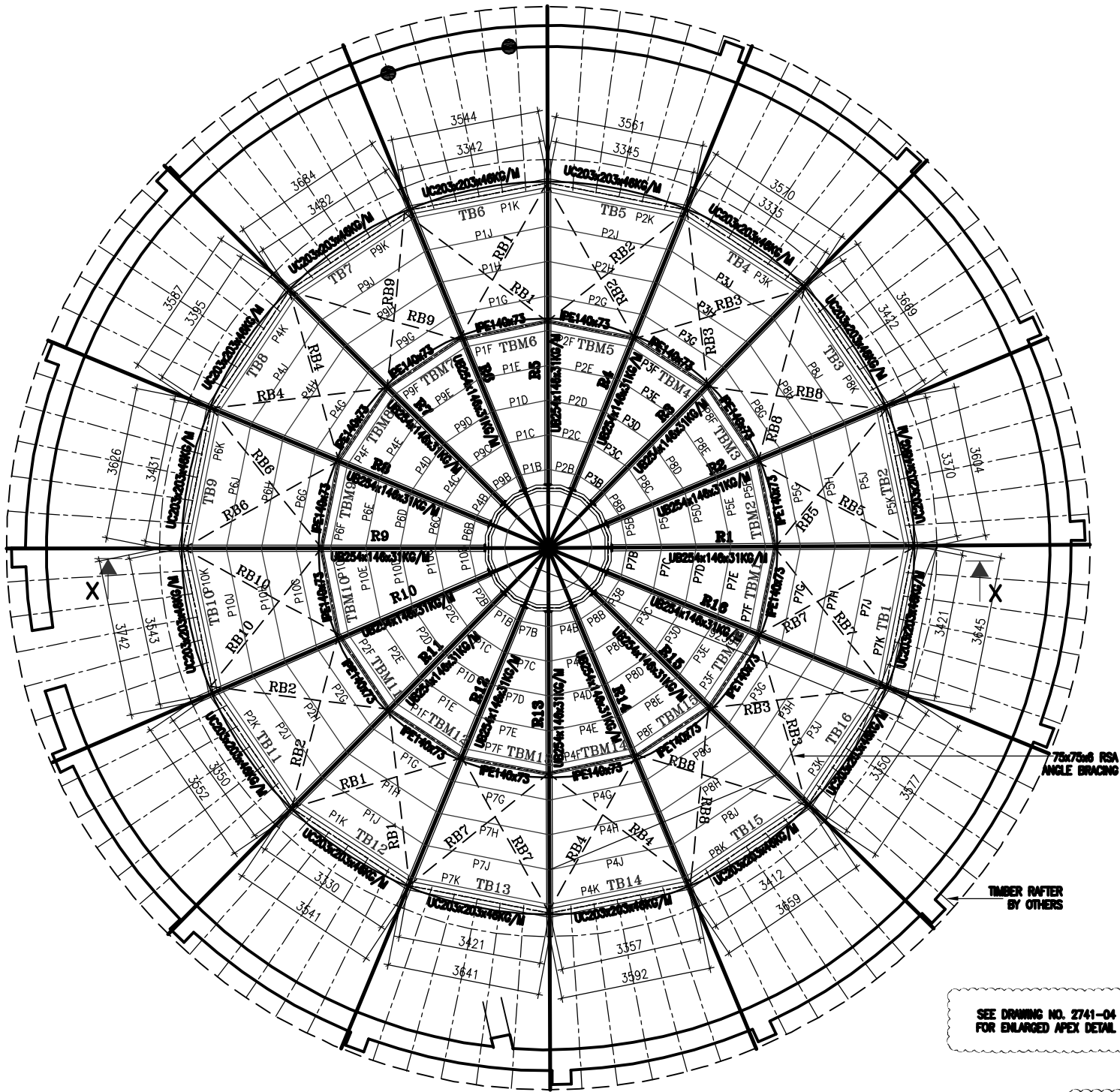
- NOTES FOR HOLDING DOWN BOLTS**
- 1) 2 NOS 24MM DIA. HD BOLTS x 450 LONG COMPLETE WITH NUTS, FLAT ROUND WASHERS & 100x675x100 LG ANCHOR PLATES ARE REQUIRED FOR BASES TYPE 'd'
 - 2) ALL HD BOLTS BE CAST USING THE SPECIFIED & SUPPLIED CASTING TEMPLATES.
 - 3) HD BOLTS TO BE RIGIDLY CAST
 - 4) THE BUILDER SHALL BE RESPONSIBLE OF SETTING OUT THE BASES ACCURATELY AND PROVIDING A NON-SHRINK 25MM THICK SAND/CEMENT LEVELING PADS BEFORE THE ERECTION OF STEELWORK STARTS.
 - 5) TOP OF ALL BASES MUST BE AT THE SAME LEVEL.
 - 6) THE ORIENTATION OF CASTING TEMPLATES IS VERY IMPORTANT DURING THE CASTING OF THE HD BOLTS AND MUST BE RETAINED AS SHOWN ON THIS DRAWING
 - 7) FOR R.C FOUNDATION DETAILS AND OTHER SUCH DETAILS READ THIS DRAWING IN CONJUNCTION WITH THE RELEVANT CIVIL ENGINEERING DRAWINGS.
 - 8) DO NOT SCALE. WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
 - 9) STEEL TAPE IS TO BE USED IN SETTING OUT. DO NOT USE LINES OR CLOTH TAPE MEASURES.



H.D BOLT LAYOUT AND ANCHORAGE

GENERAL NOTES	
CAD REF: 2741-01B-H.D LAYOUT.dwg	
A	DRAWING GENERALLY UPDATED 24/01/2014
B	a) GENERAL NOTE REVISED 29/01/2014 b) SLOTS ON BASE PLATE INTRODUCED
C	
D	
REVISION	
DATE	
CLIENT	
BUGANDA KINGDOM	
JOB	
PROPOSED DEVELOPMENT OF KASUBI TOMBS	
PLOT 2777, BLOCK 203, KASUBI	
DRAWING TITLE	
H.D BOLT LAYOUT AND ANCHORAGE	
 Victoria Engineering Limited Plot 7/9/11 Muhwani Road, P. O. Box 620 Kampala, Uganda, Phone: +256(0)414346740 +256(0)31226499 Email: info@engineeringgmugroup.com	
Drawn: TNY	Checked: A.M
Date: Jan 2013	

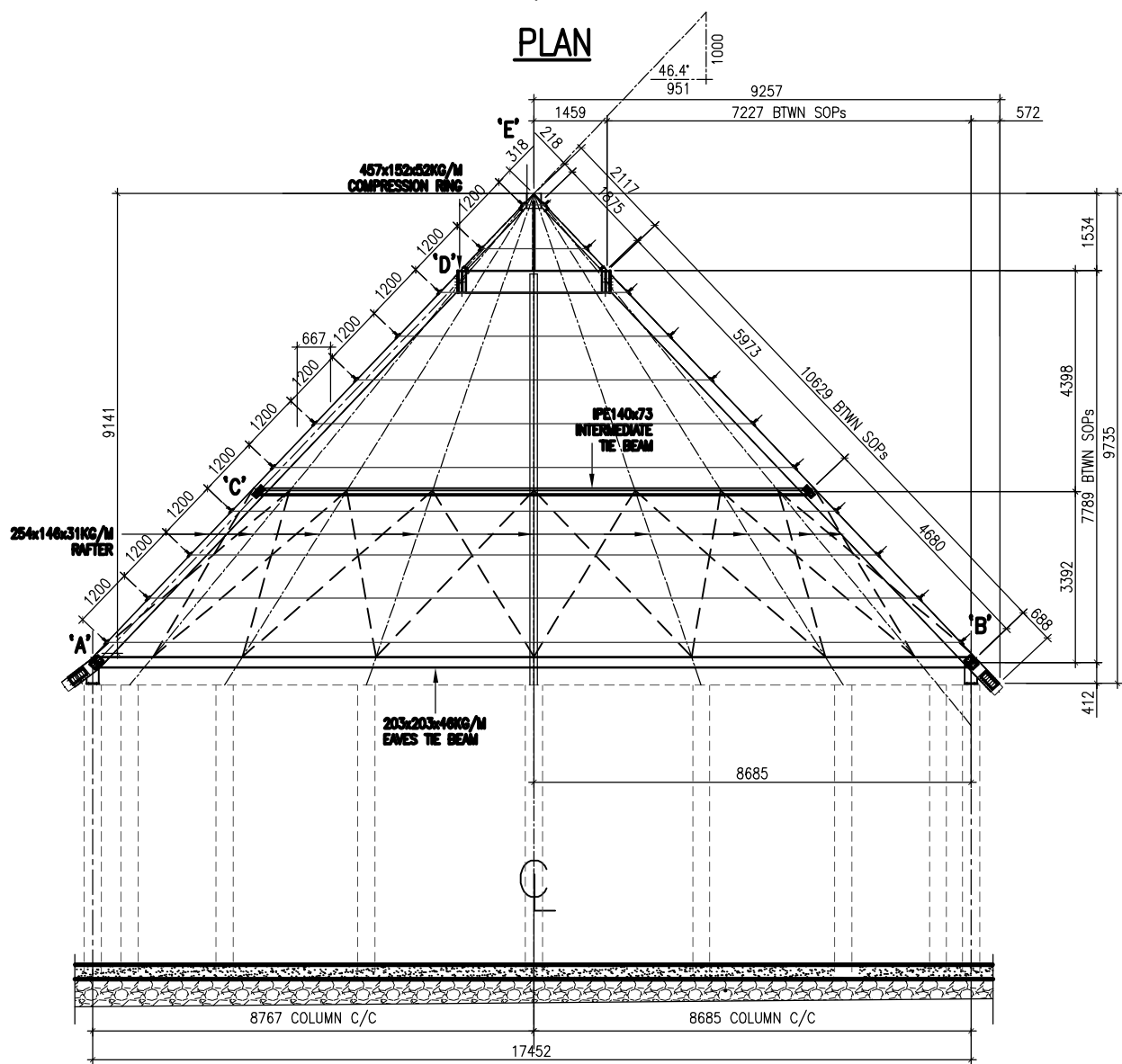
Dwg No. 2741-01B-H.D LAYOUT



SEE DRAWING NO. 2741-04
FOR ENLARGED APEX DETAIL

PLAN


REVA
1.IPE 100x55x8.1KG/M PURLIN
INTRODUCED
2.MARKINGS UPDATED
DATE:04/02/2014

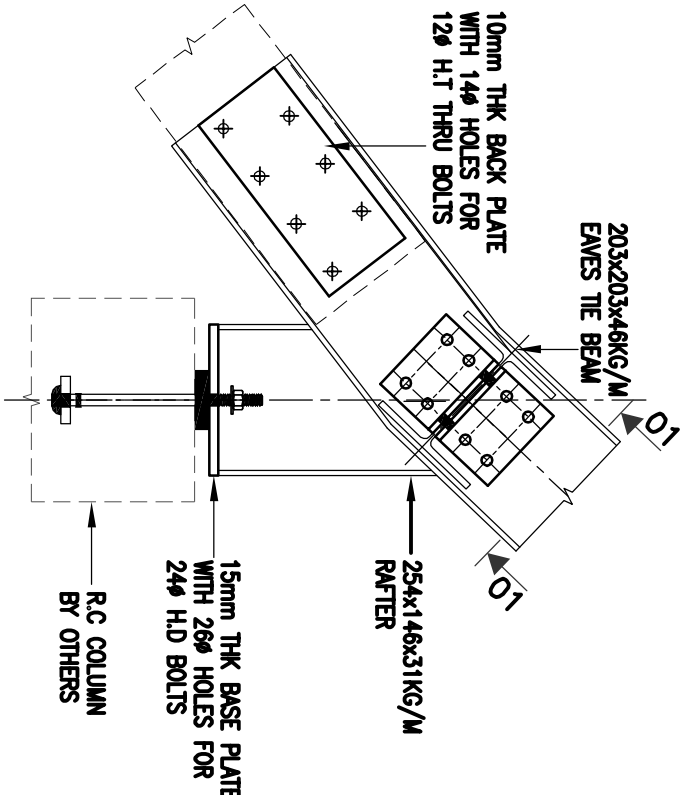


REVA
DRAWING GENERALLY UPDATED
DATE:04/02/2014

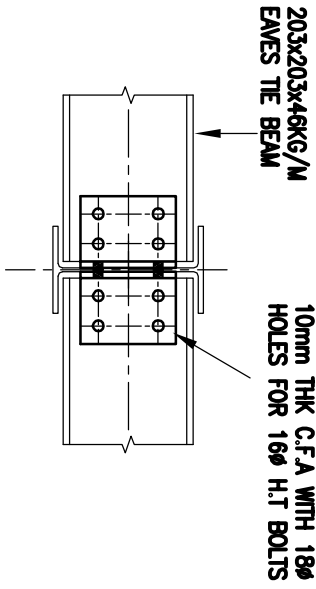
SECTION X-X

(OTHER RAFTERS NOT SHOWN FOR CLARITY)

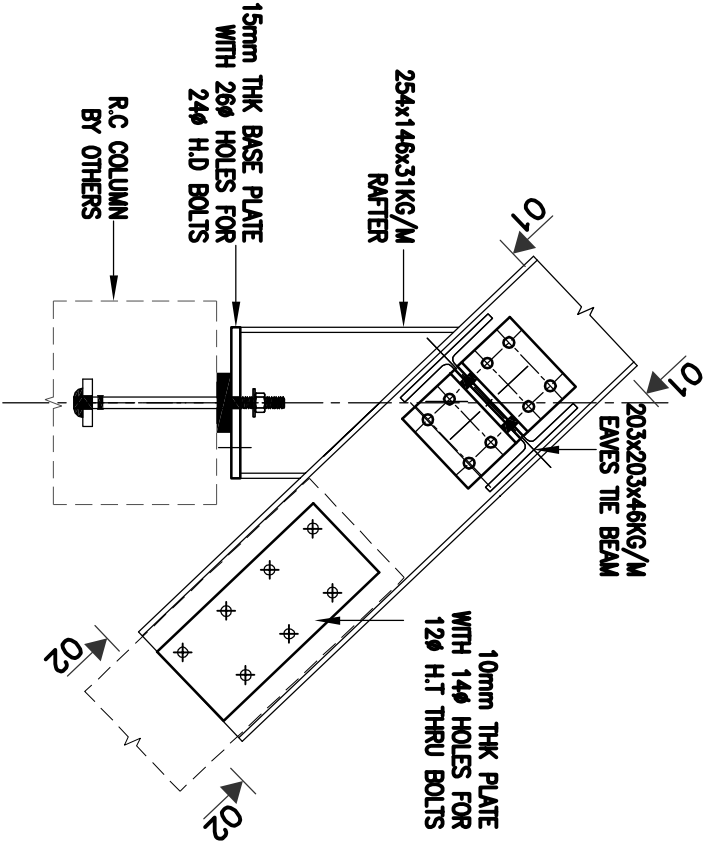
				CLIENT	<u>BUGANDA KINGDOM</u>	DRAWN	TNY	Jun. 21, 13	 Victoria Engineering Limited Plot 7/9/11 Mulwana Road, P. O. Box 620 Kampala, Uganda. Phone: +256(0)414346740 +256(0)31226499 Email: info@engineering.gmachgroup.com	
				PROJECT	<u>PROPOSED DEVELOPMENT OF KASUBI TOMBS PLOT 2777, BLOCK 203, KASUBI</u>	CHECKED	AM			
REV	BY	DATE	DETAILS	TITLE	G.A OF STEELWORK					
								SCALE	JOB No	2741-02B-GA-PLAN & SECTION.dwg
								NTS	2741	



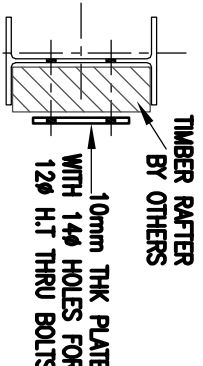
DETAIL 'A'
(ENTRANCE SIDE)



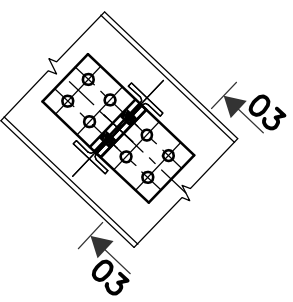
SECTION 01-01



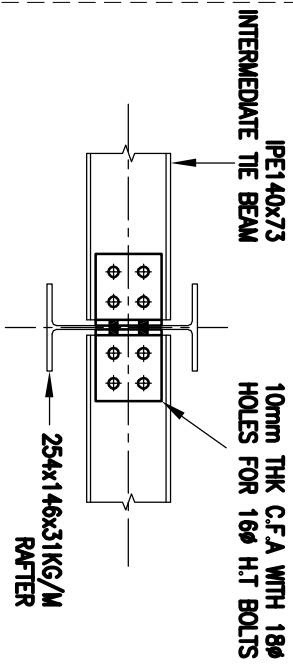
DETAIL 'B'



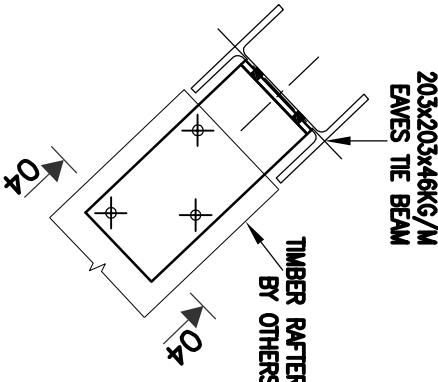
SECTION 02-02



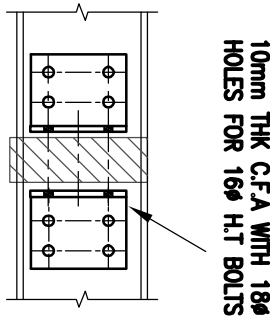
DETAIL 'C'



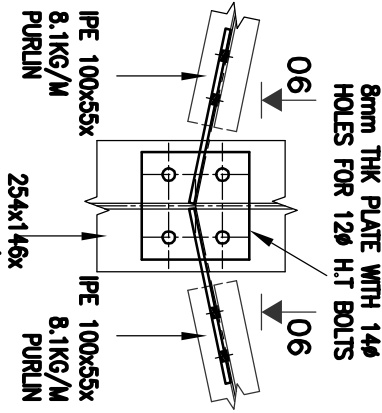
SECTION 03-03



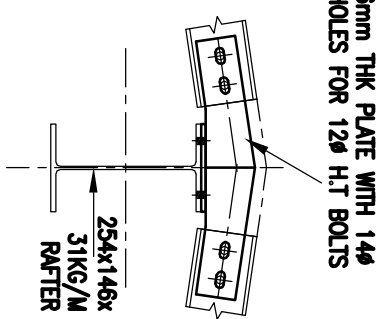
EAVES TIE BEAM TIMBER CLEAT



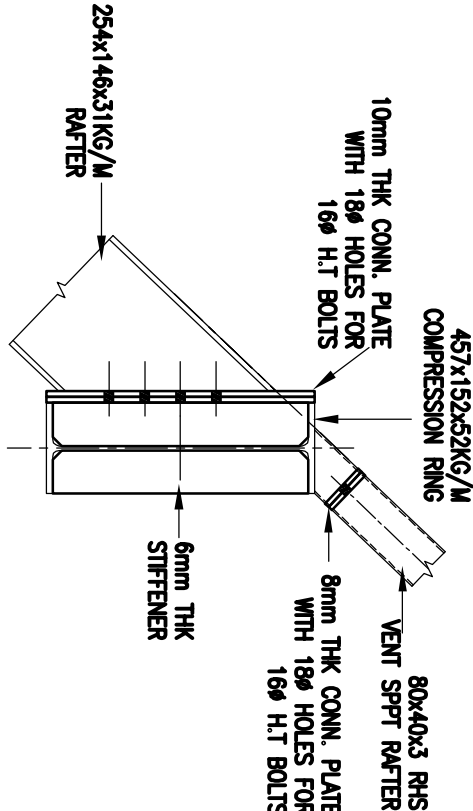
SECTION 04-04



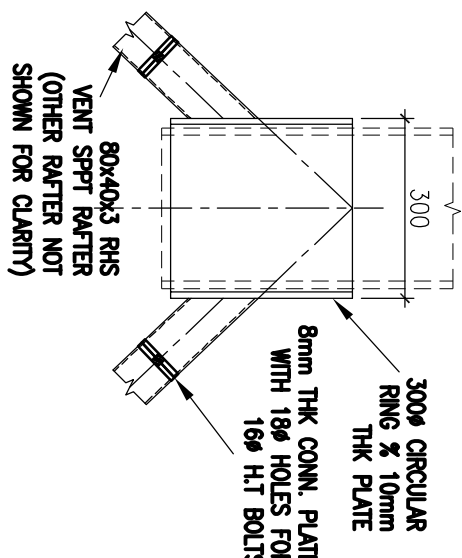
TYP. PURLIN CLEAT DETAIL



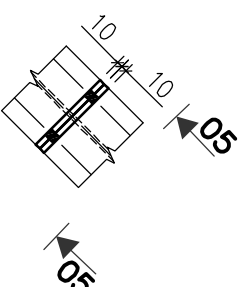
SECTION 06-06



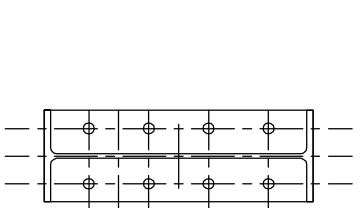
DETAIL 'D'



DETAIL 'E'

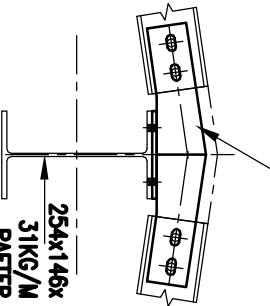


COMPRESSION RING
RINGMARK CONN. DETAIL



SECTION 05-05

6mm THK PLATE WITH 14Ø HOLES FOR 12Ø H.T BOLTS



SECTION 06-06

G	
F	
E	
D	
C	
B	
A	
	REVISION
	DATE

CLIENT


BUGANDA KINGDOM

JOB

PROPOSED DEVELOPMENT OF KASUBI TONIBS
PLOT 2777, BLOCK 203, KASUBI

DRAWING TITLE

G.A OF STEELWORK
(DETAILS)



Victoria Engineering Limited

PLOT 7/9/11 Mulwani Road,
P. O. Box 620 Kampala, Uganda,
Phone: +256(0)414346740 +256(0)31226499
Email: info@engineering.gmachgroup.com

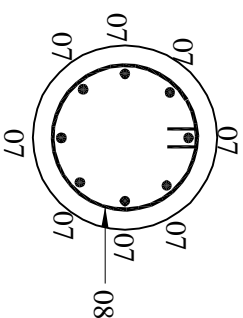
Drawn: tny

Checked: A.M

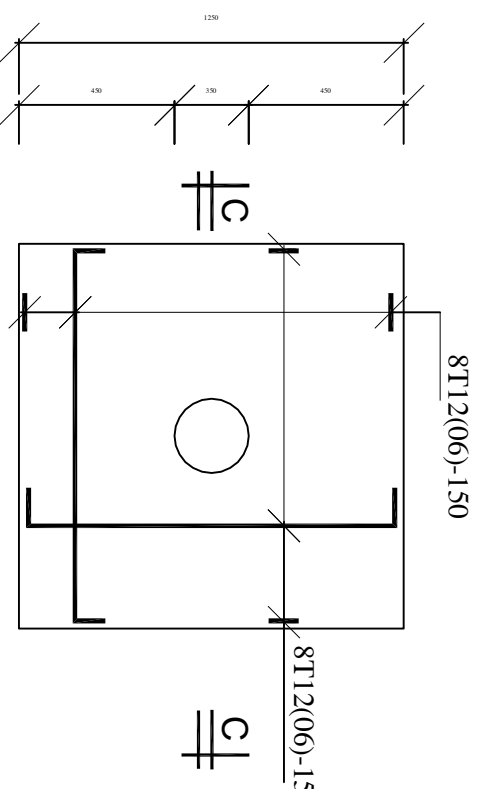
Date: Jan 2012

Drg No. 2741-03B-GA -DETAILS.dwg





SCALE 1:10



SCALE 1:25

SHOWING INTEGRATION WITH

THE OLD EXISTING FOOTING

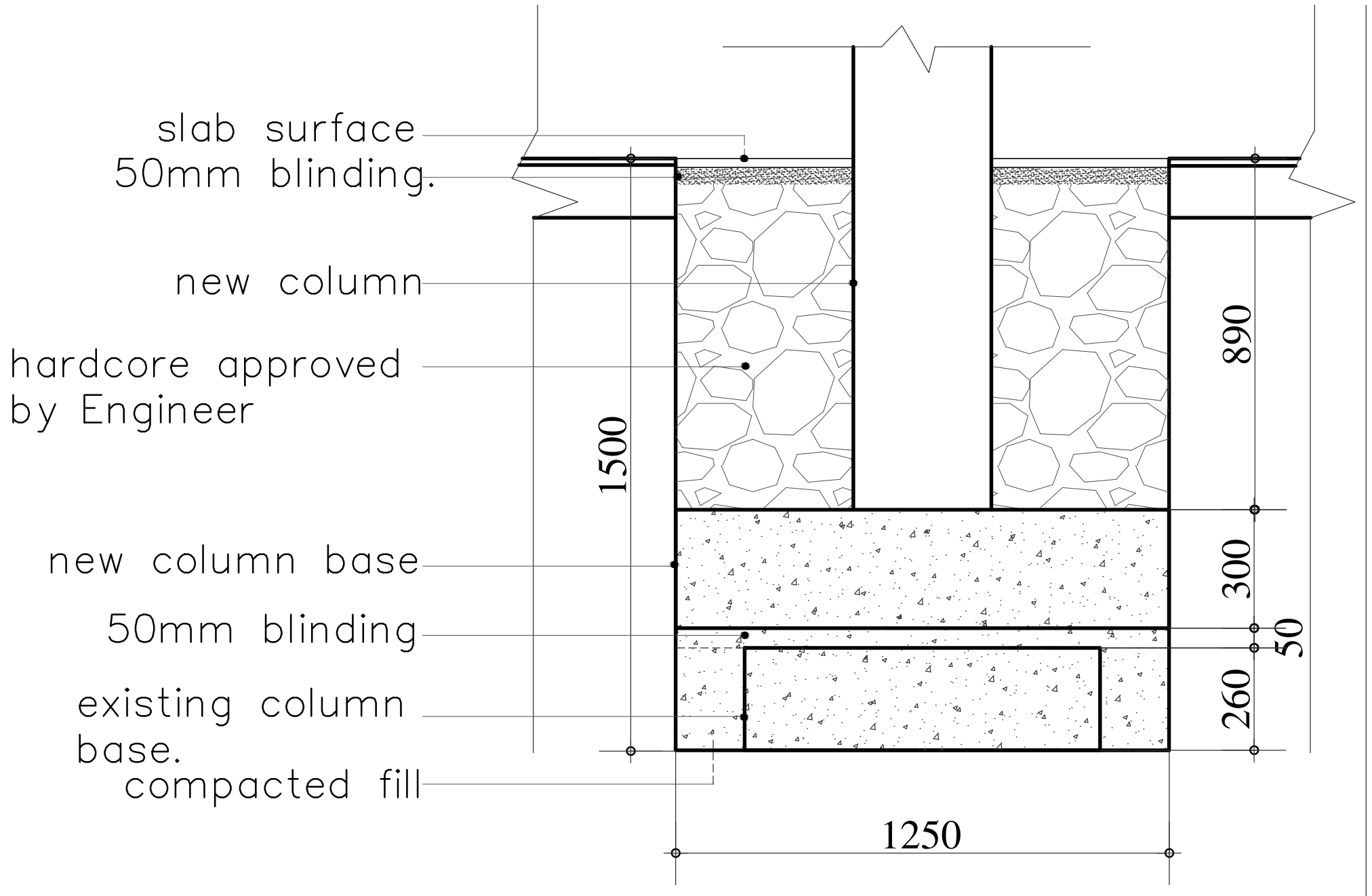
SCALE 1:50

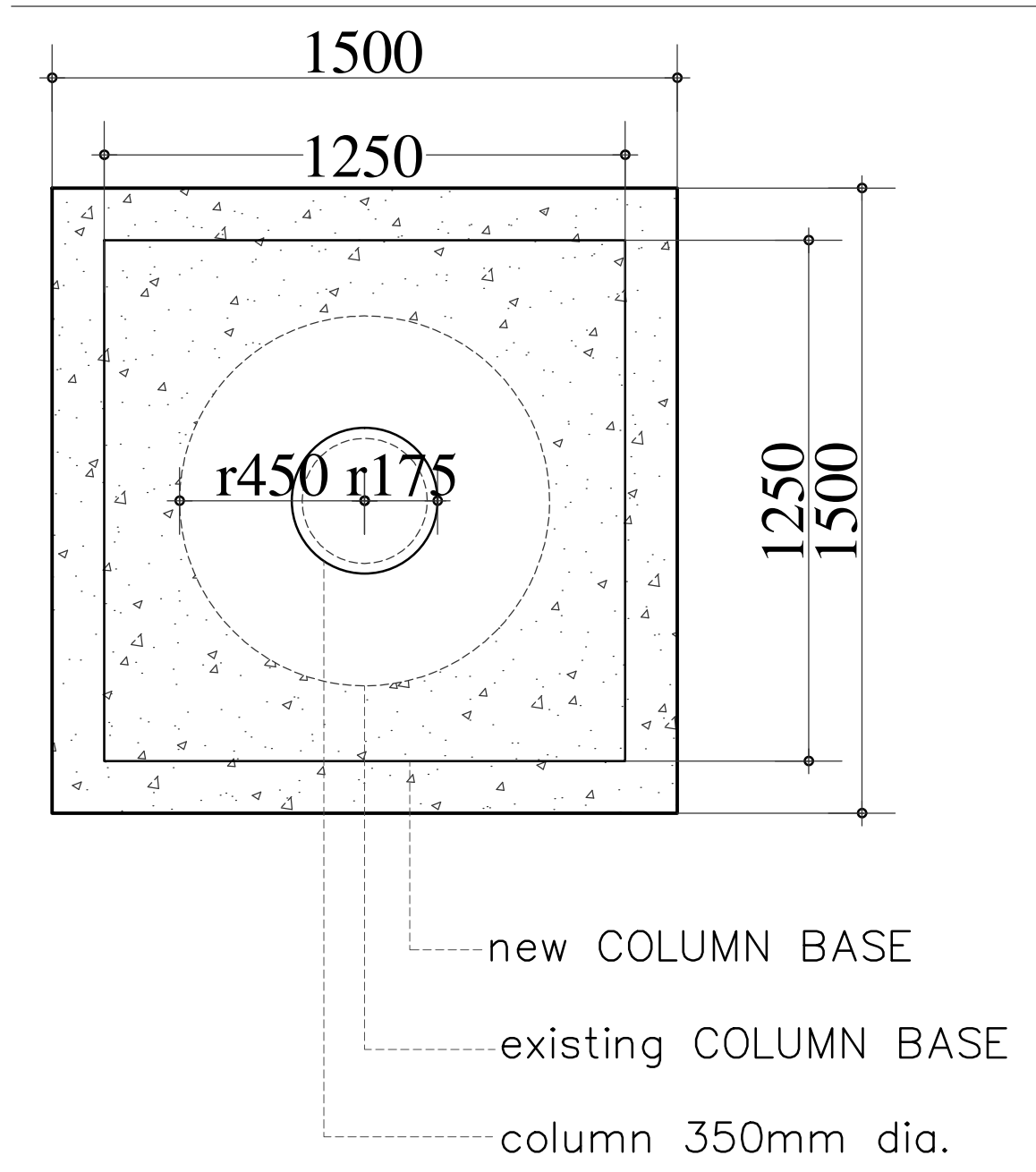
1250X1250X350

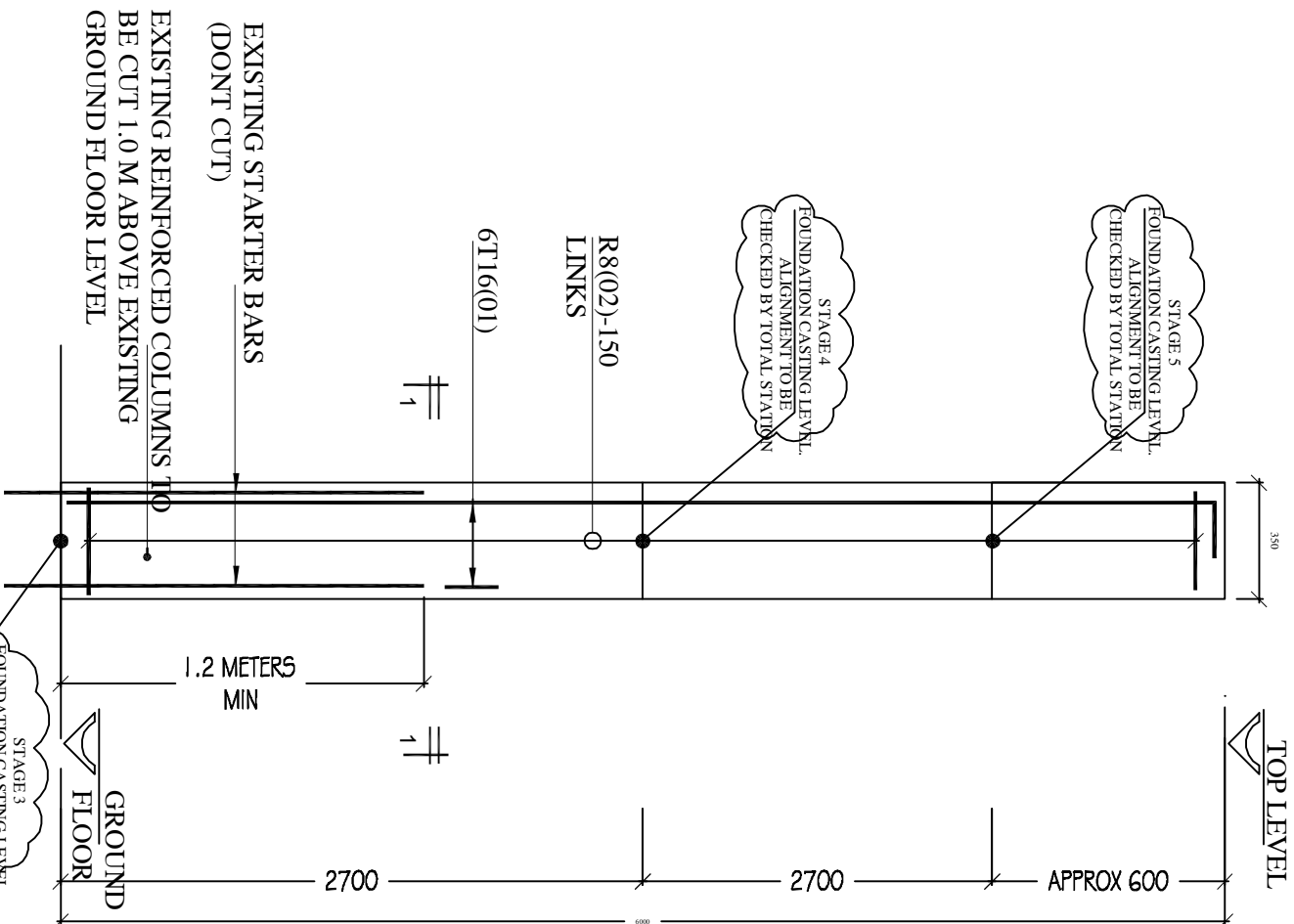
TYPICAL COLUMN BASE

SCALE 1:25

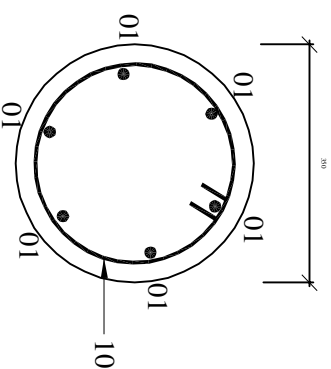
- NOTES:**
1. Reinforcement
 - a). High yield bars to be deformed type 2 high yield bars to B.S. 4449
 - b). Mild steel to be round bars to B.S. 4449
 2. Minimum cover to steel in Bases = 40mm
 3. Reinforced concrete to have works
- cube strength of 25N/mm² at 28 days with 20mm maximum aggregate size







TOP LEVEL



SECTION 1-1

SCALE 1:10

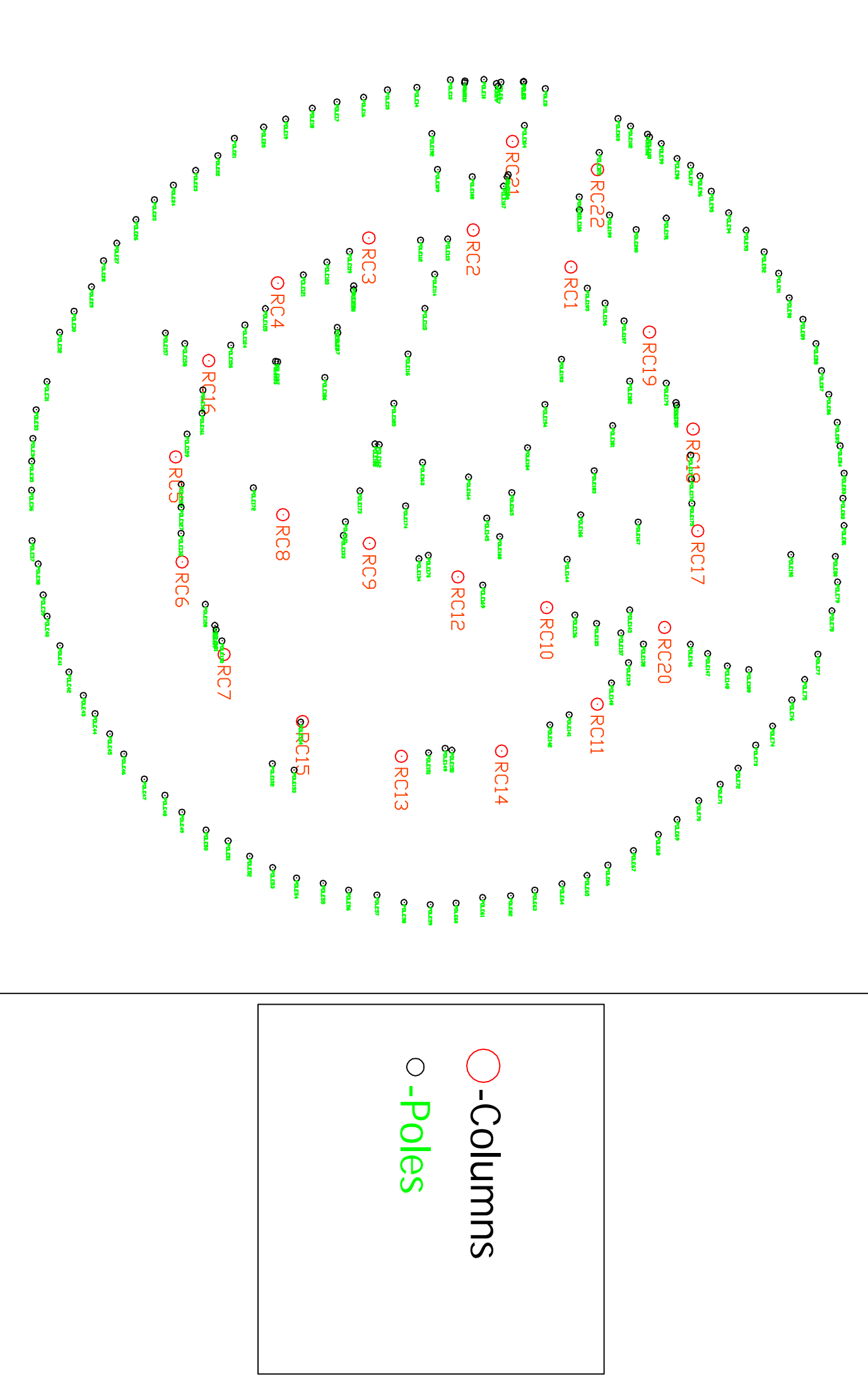
- NOTES:
1. Reinforcement
 - a). High yield bars to be deformed type 2 high yield bars to B.S. 4449
 - b). Mild steel to be round bars to B.S. 4449
 2. Minimum cover to steel in Columns = 40mm
 3. Reinforced concrete to have works cube strength of 25N/mm² at 28 days with 20mm maximum aggregate size
 4. All dimensions must be verified on site before cutting any reinforcement

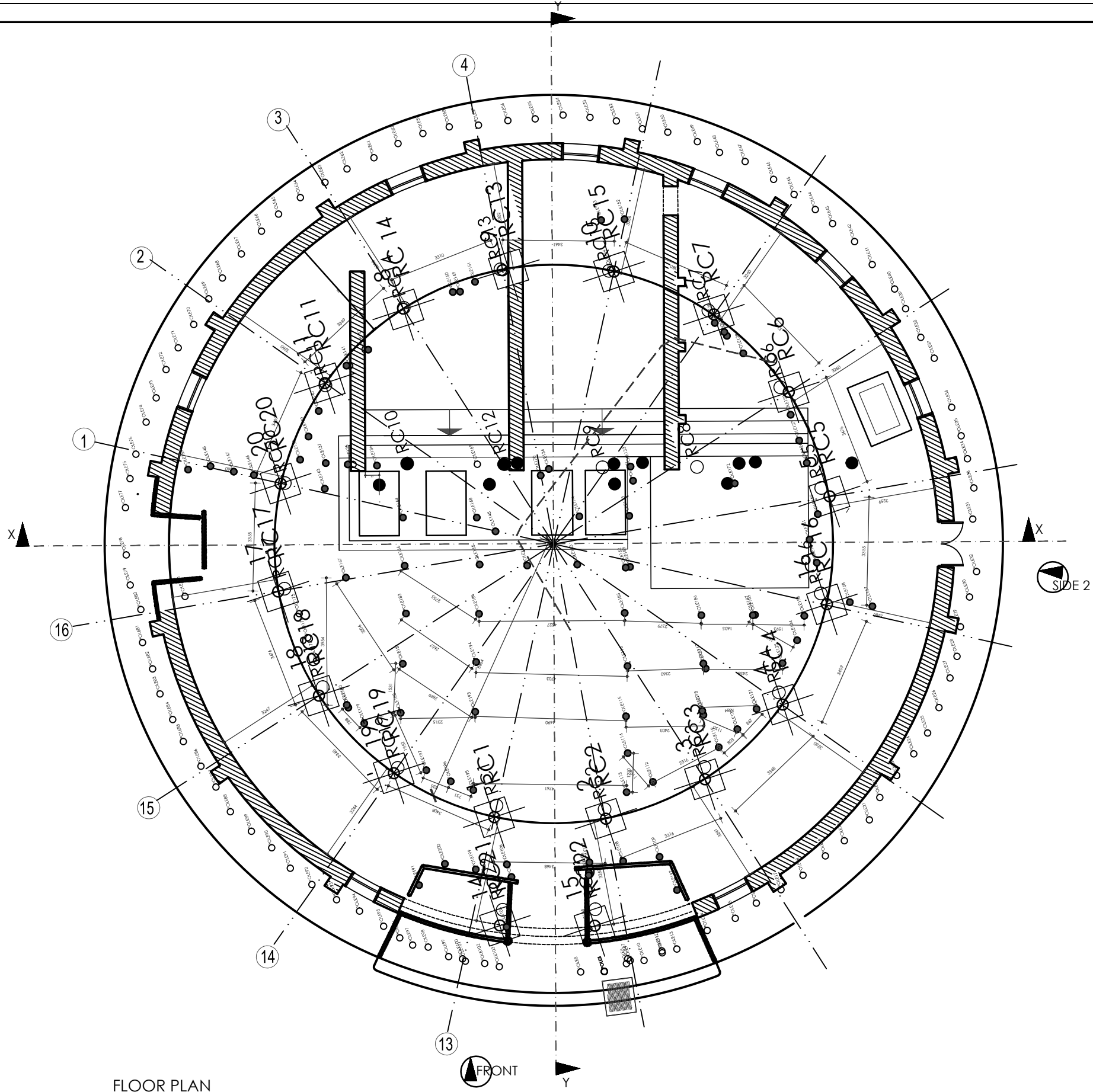
METHOD OF DEMOLISHING REINFORCED CONCRETE COLUMNS

1. CUT COLUMN (1.0 M) ABOVE GROUND FLOOR LEVEL AS DIRECTED BY THE ENGINEER.
2. CHISEL THE REMAINING PART OF THE CONCRETE COLUMN (1.0M) HIGH WITHOUT DAMAGING THE EXISTING REINFORCEMENT.
3. FIX NEW REINFORCEMENT AND CAST NEW COLUMNS AS DIRECTED BY THE ENGINEER.
4. BEFORE COMMENCEMENT OF CONSTRUCTION WORKS, AT LEAST ONE FOUNDATION OF THE COLUMNS AT THE CIRCLE SHOULD BE EXPOSED & CHECKED FOR ADEQUACY.

NEW 350mm DIA COLUMN (TYPICAL)

SCALE 1:20





FLOOR PLAN
MUZIBU AZAALA MPANGA
KASUBI TOMBS scale 1:75

REVISIONS			
Rev. No.	Date	Int.	Description

Client
BUGANDA KINGDOM
P.O BOX 1754,
KAMPALA, UG

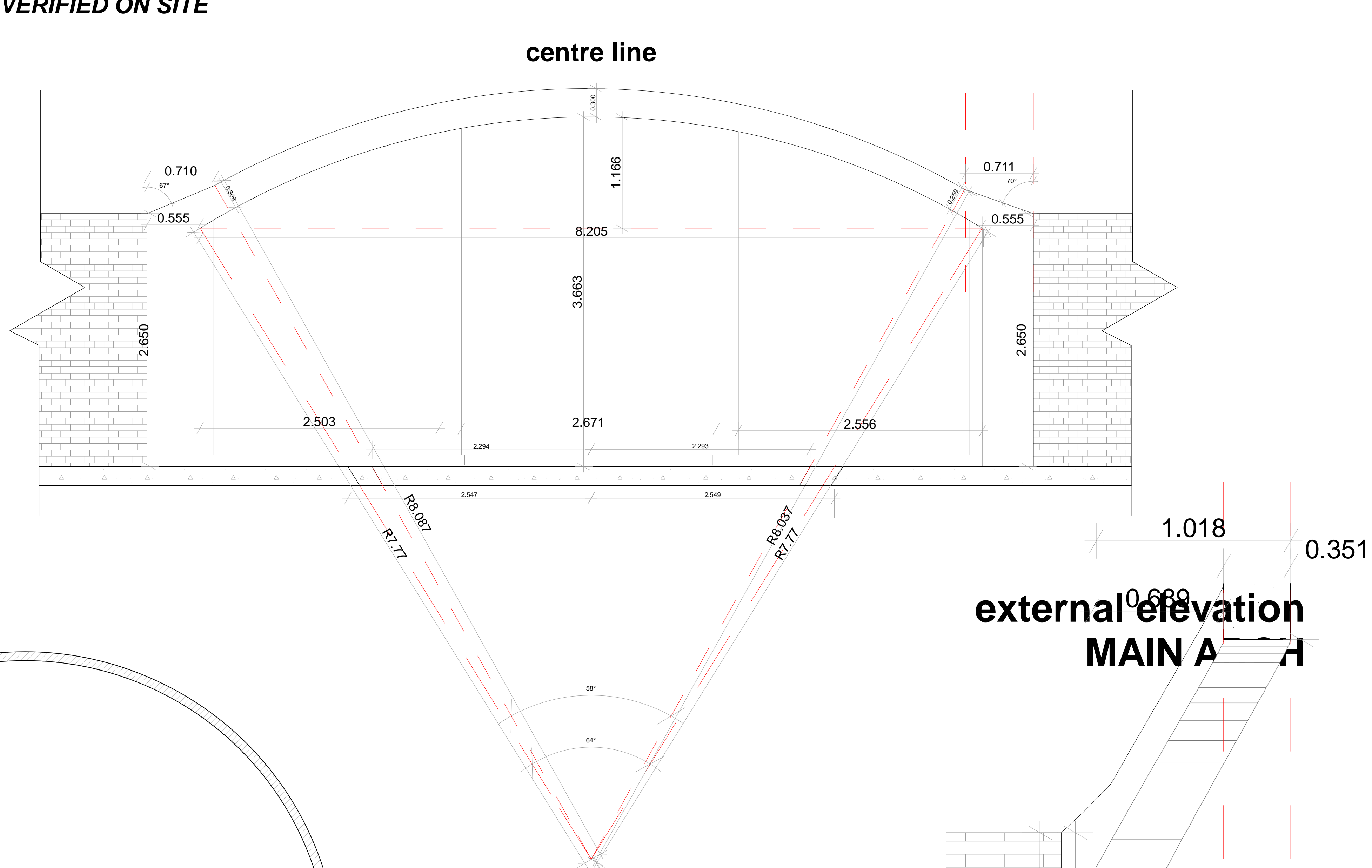
Project
PROPOSED RE-CONSTRUCTION
OF KASUBI TOMBS
ON PLOT 92 BLOCK 203 KYADONDO

Drawing
FLOOR PLAN

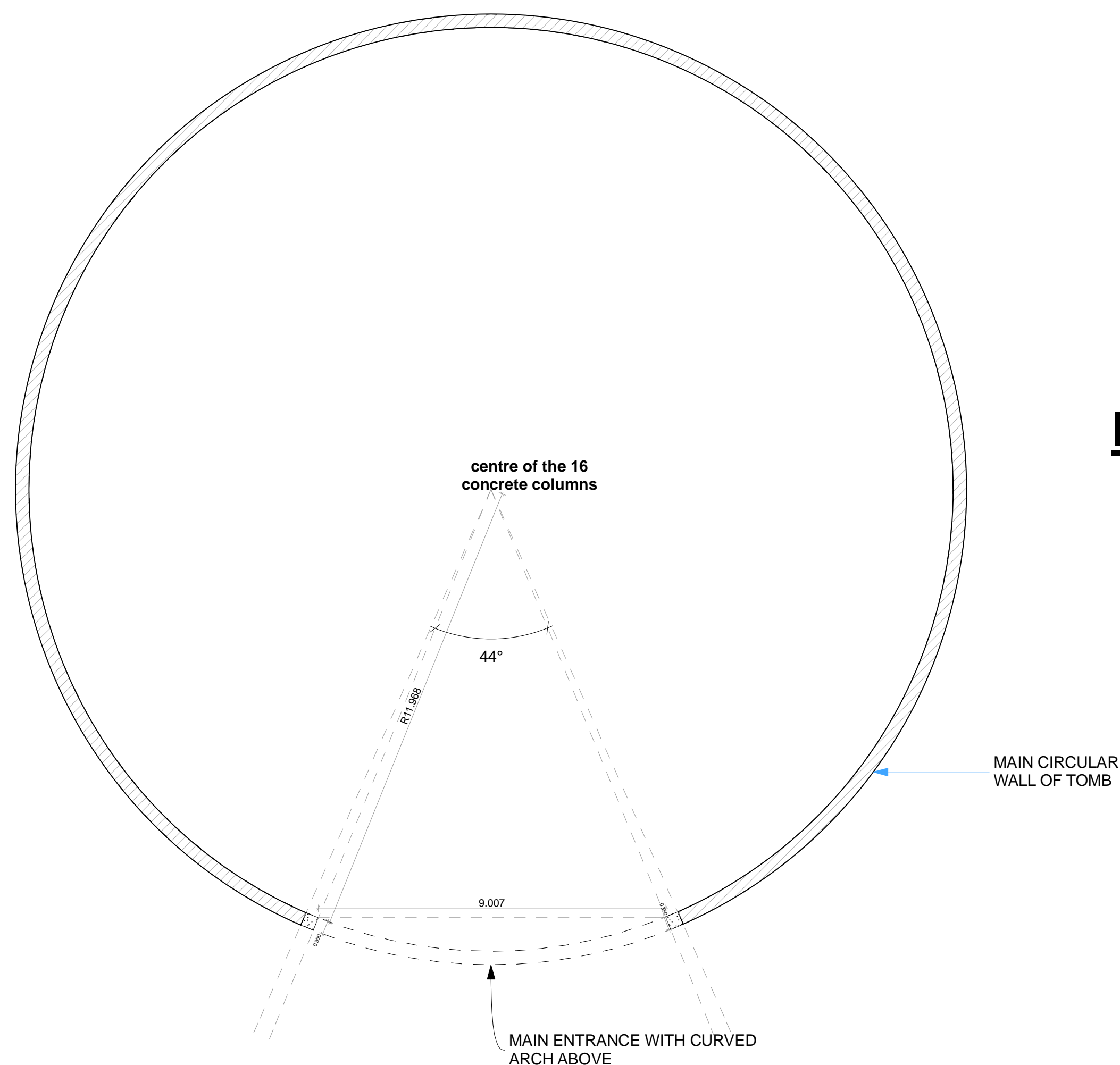
All dimensions to be checked on site before any work is put in hand. Refer any discrepancies to the architect. <small>Copyright reserved</small>			
Scale	1:75	Date	JANUARY 2014
Project No.	2010/006	Drawing No.	NA/GA/200
Drawn	JNK	Revision No.	2

j.e Nsubuga and Associates
ARCHITECTS
P.O. BOX 6577 KAMPALA, UGANDA,
TEL: +256 -31 262018/9
CELL: +256 -77 702855
FAX: +256 -41 344770
E-mail: nel@africaonline.co.ug

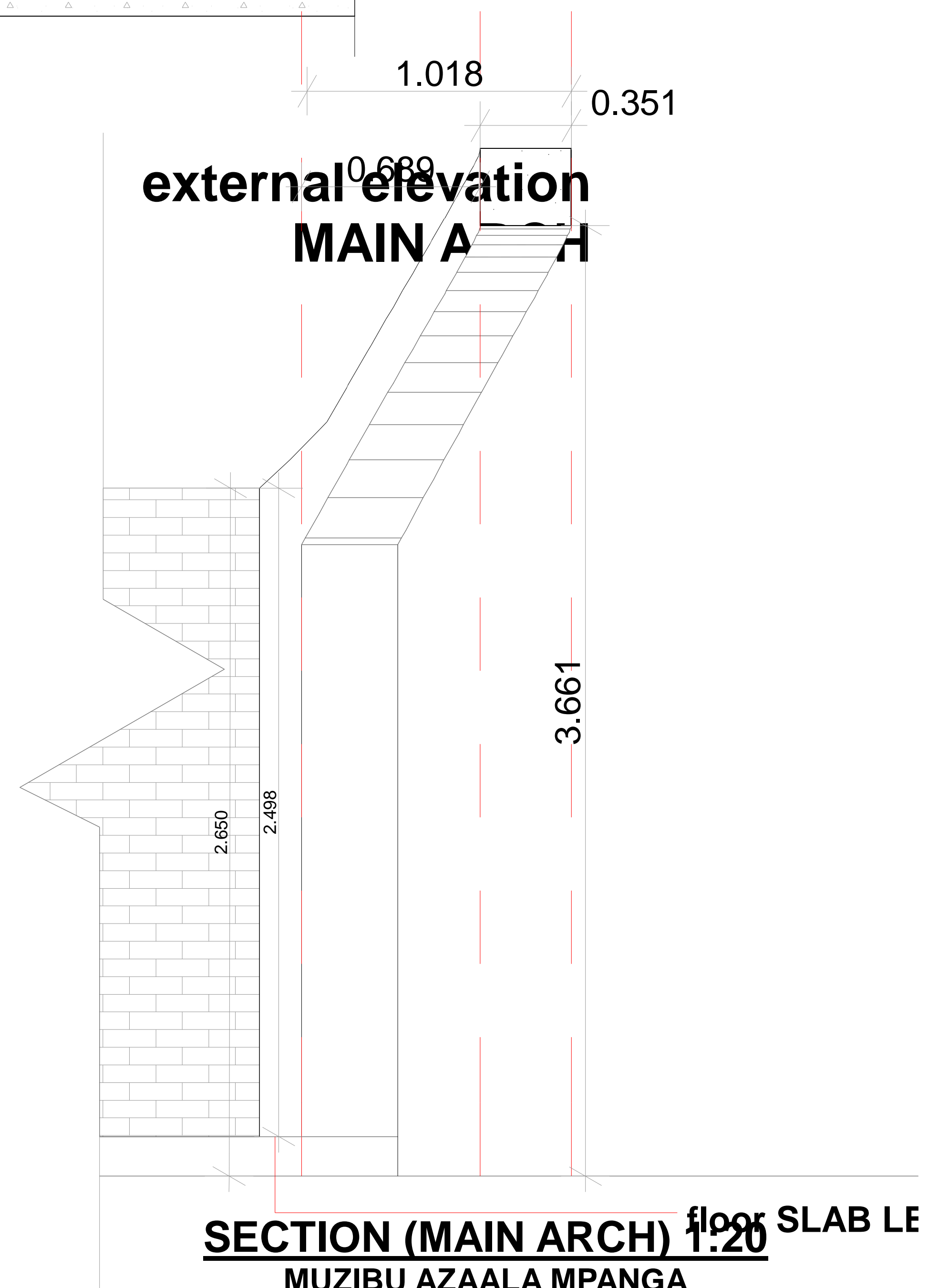
ALL DIMENSIONS TO BE VERIFIED ON SITE



FRONT ELEVATION(MAIN
ARCH) 1:20
MUZIBU AZAALA MPANGA



PLAN (MAIN ARCH) 1:75
MUZIBU AZAALA MPANGA

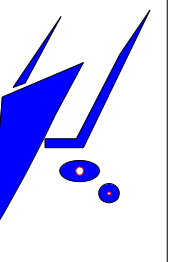


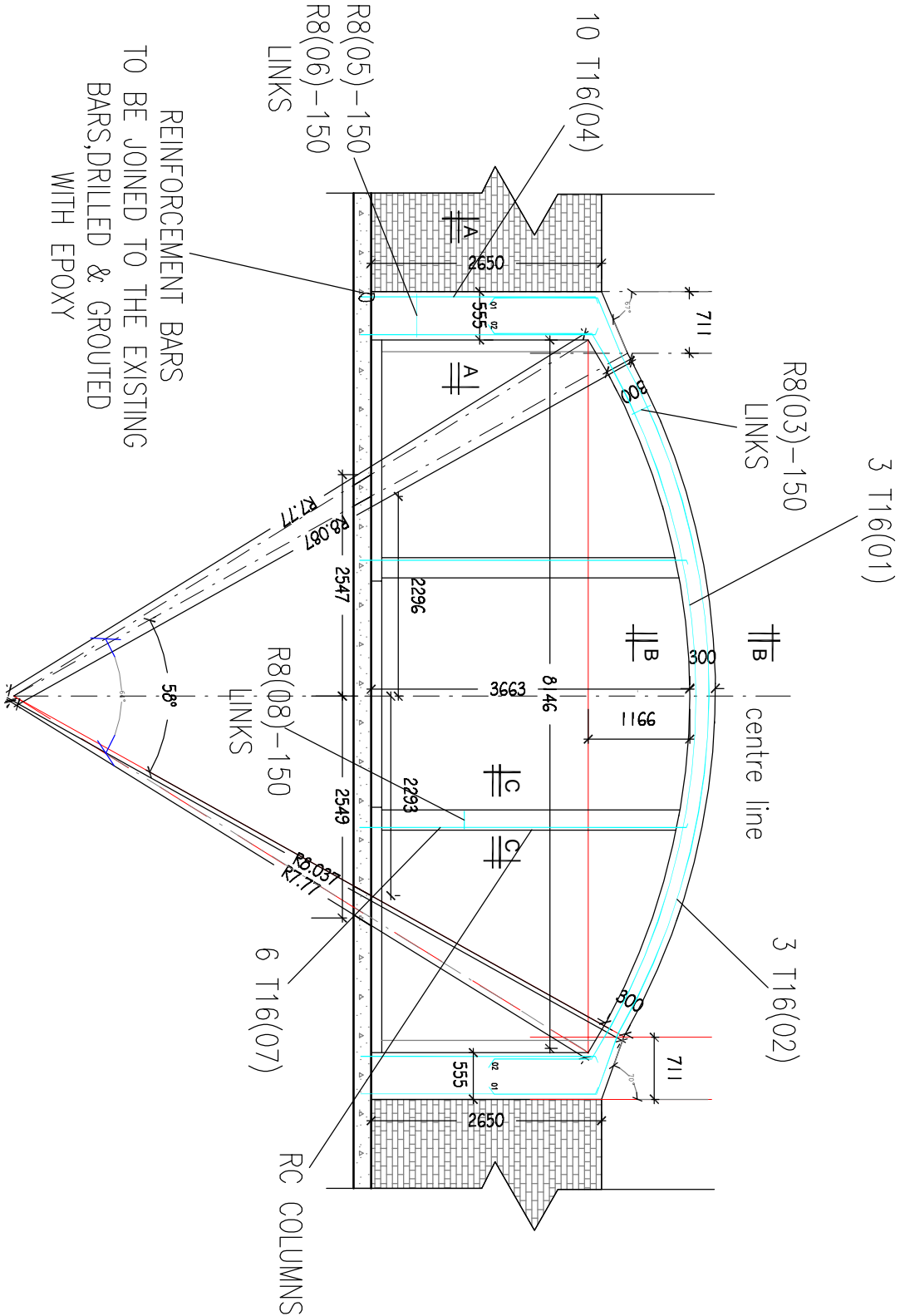
SECTION (MAIN ARCH) floor SLAB LEVEL
MUZIBU AZAALA MPANGA

[illegible]

Client			Copyright reserved
KENYA P.O BOX 1754, KAMPALA, UG			
Project			
PROPOSED RE-CONSTRUCTION OF KASUBI TOMBS NABULAGALA.			
Drawing			
MAIN ARCH-MAIN ENTRANCE Muzibu Azaala Mpanga details			
Scale	Date	Drawn	
1:50; 1:100	JULY, 2014	JNK	
Project No.	Drawing No.	Revision No.	
2010/006	NA/GA/100	1	

j.e Nsubuga and Associates
ARCHITECTS
P.O. BOX 6577 KAMPALA, UGANDA.
TEL: +256 -31 262018/9
CELL: +256 -77 702655
FAX: +256 -41 344779
E- mail: nel.arch@gmail.com

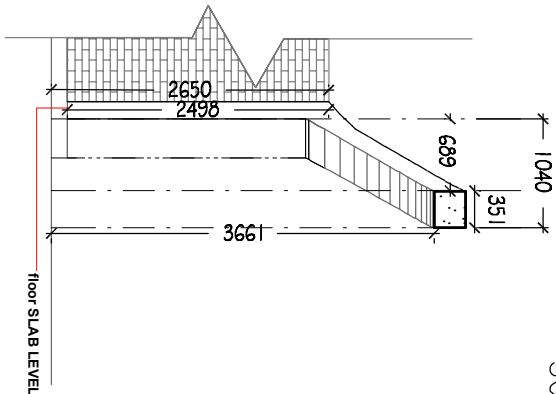




REINFORCEMENT BARS
TO BE JOINED TO THE EXISTING
BARS, DRILLED & GROUTED
WITH EPOXY

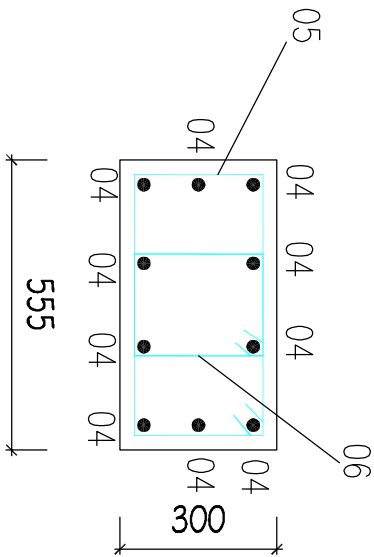
MAIN ARCH

SCALE 1:100



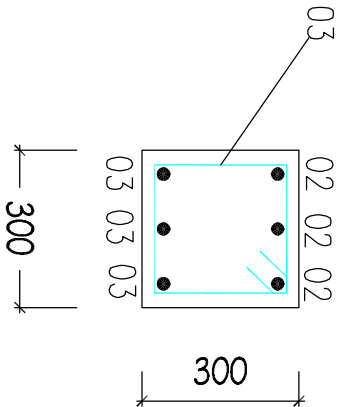
SECTION THRU
CENTRE OF ARCH

SCALE 1:100



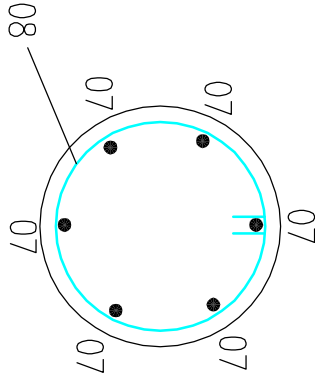
SECTION A:A

SCALE 1:20



SECTION B:B

SCALE 1:20

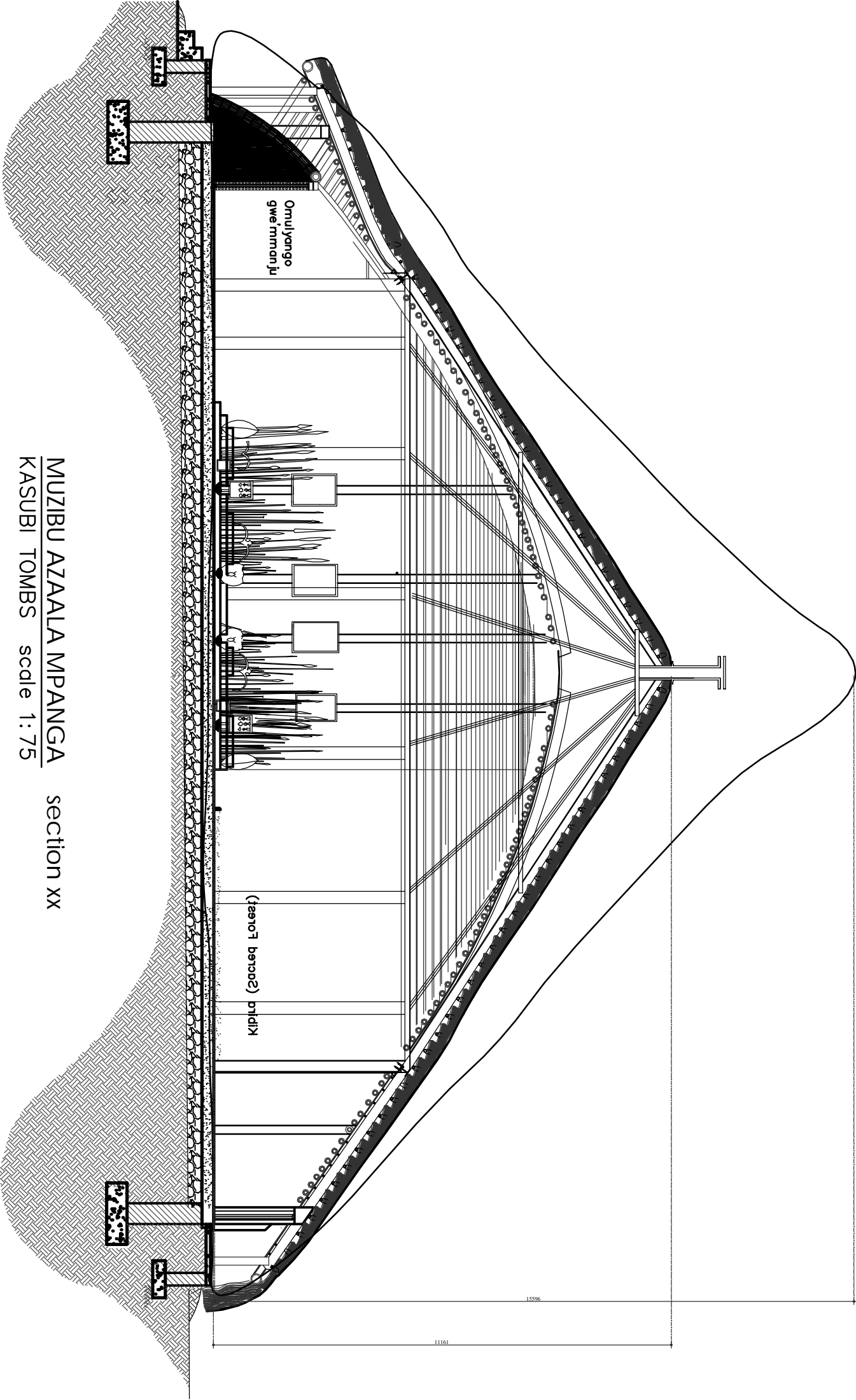


SECTION C:C

SCALE 1:20

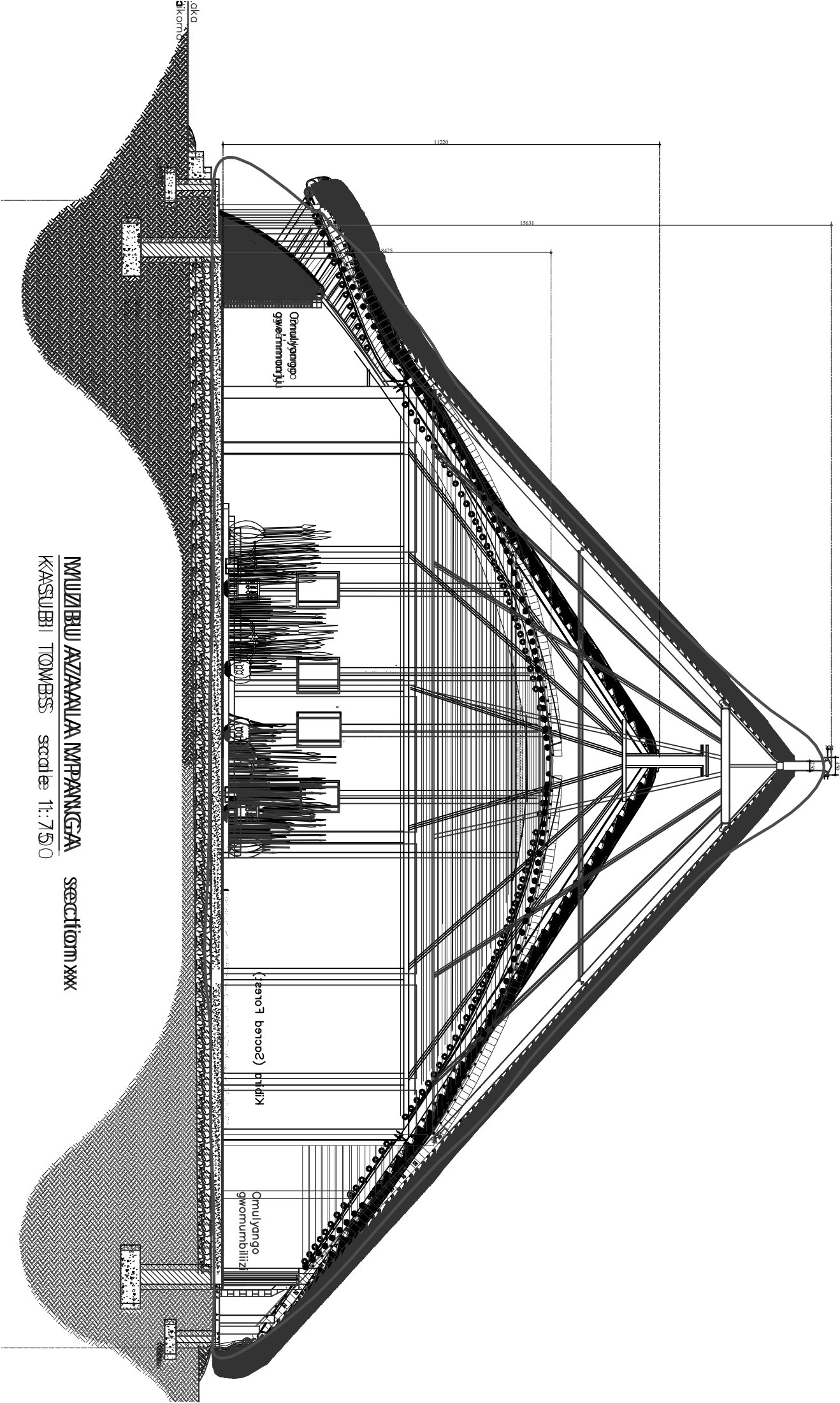
- NOTES:
- Reinforcement
 - High yield bars to be deformed type 2 high yield bars to B.S. 4449
 - Mild steel to be round bars to B.S. 4449
 - Minimum cover to steel in Columns = 40mm
 - Reinforced concrete to have works cube strength of 25N/mm
 - 20mm maximum aggregate size
 - All dimensions must be verified on site before cutting any reinforcement
 - Minimum reinforcement overlap to be 50 times the diameter of the reinforcement bar used

Description				Date	By	Chk'd
Purpose of Issue				Rev.	Date	Authorised
CLIENT:						
BUGANDA KINGDOM						
PROJECT CONSULTANT:						
UGANDA CONSULTING ENGINEERS P.O. BOX 690 KAMPALA						
PROJECT:						
PROPOSED DEVELOPMENT OF KASUBI TOMBS, PLOT 2777, BLOCK 203, KASUBI						
DRG TITLE:						
PROPOSED MAIN ARCH RC DETAILS						
DESIGNED: M.N			DRG No.:			
DETAILED: M.L.K			BKMAM/04H			
DATE: 20 SEPT 2014						
SCALE: As Shown						

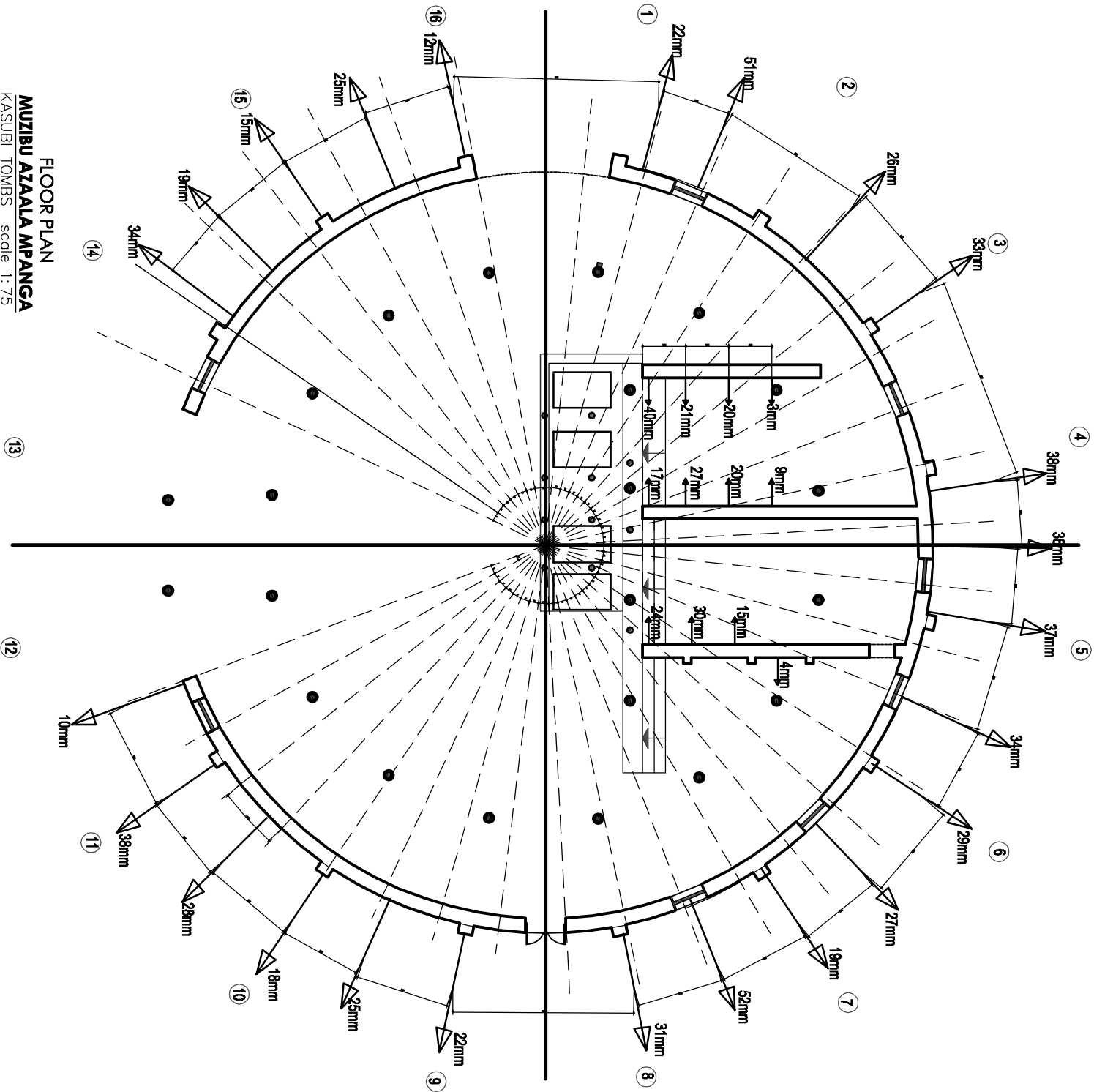


MUZIBU AZAALA MPANGA
KASUBI TOMBS scale 1:75

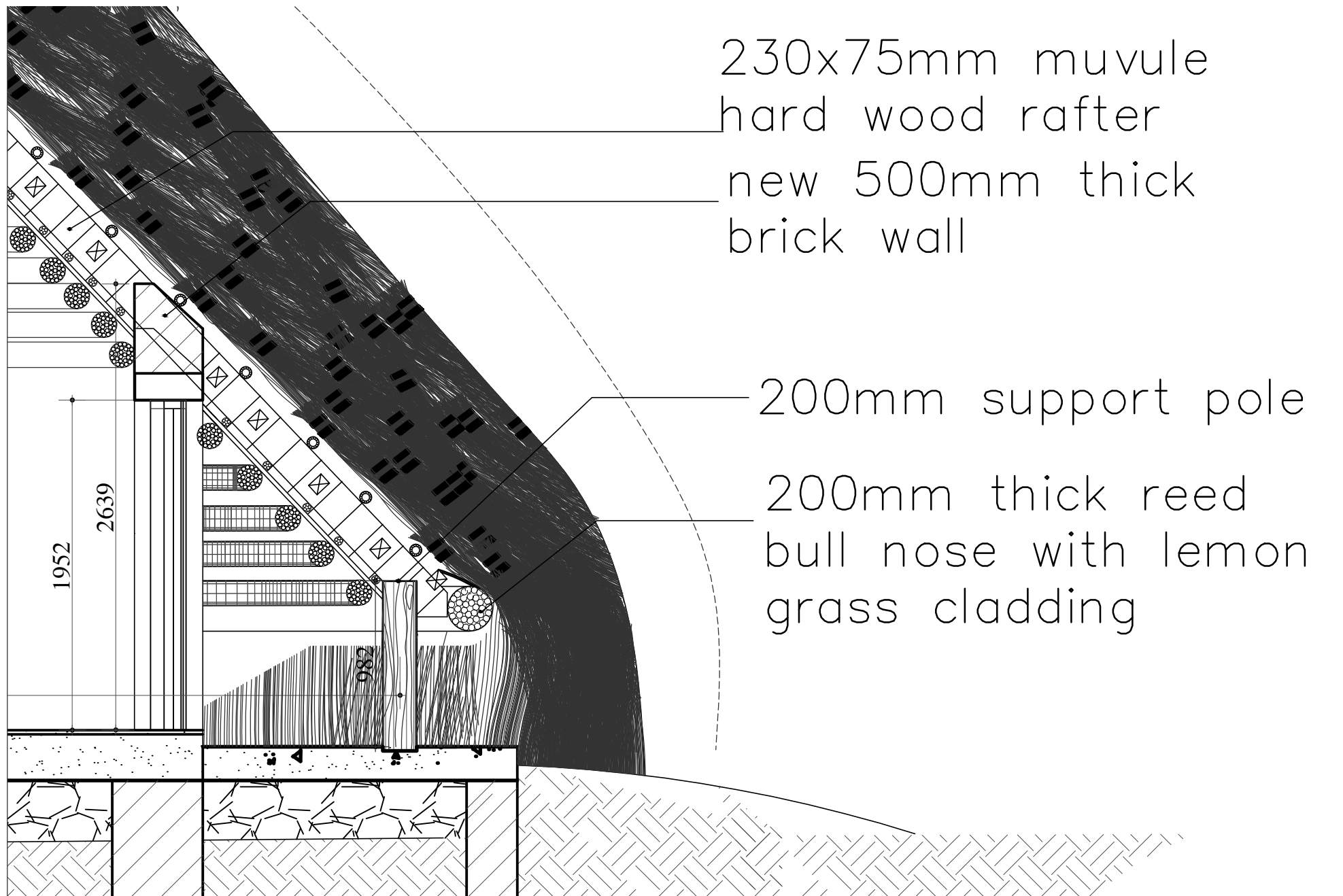
section xx

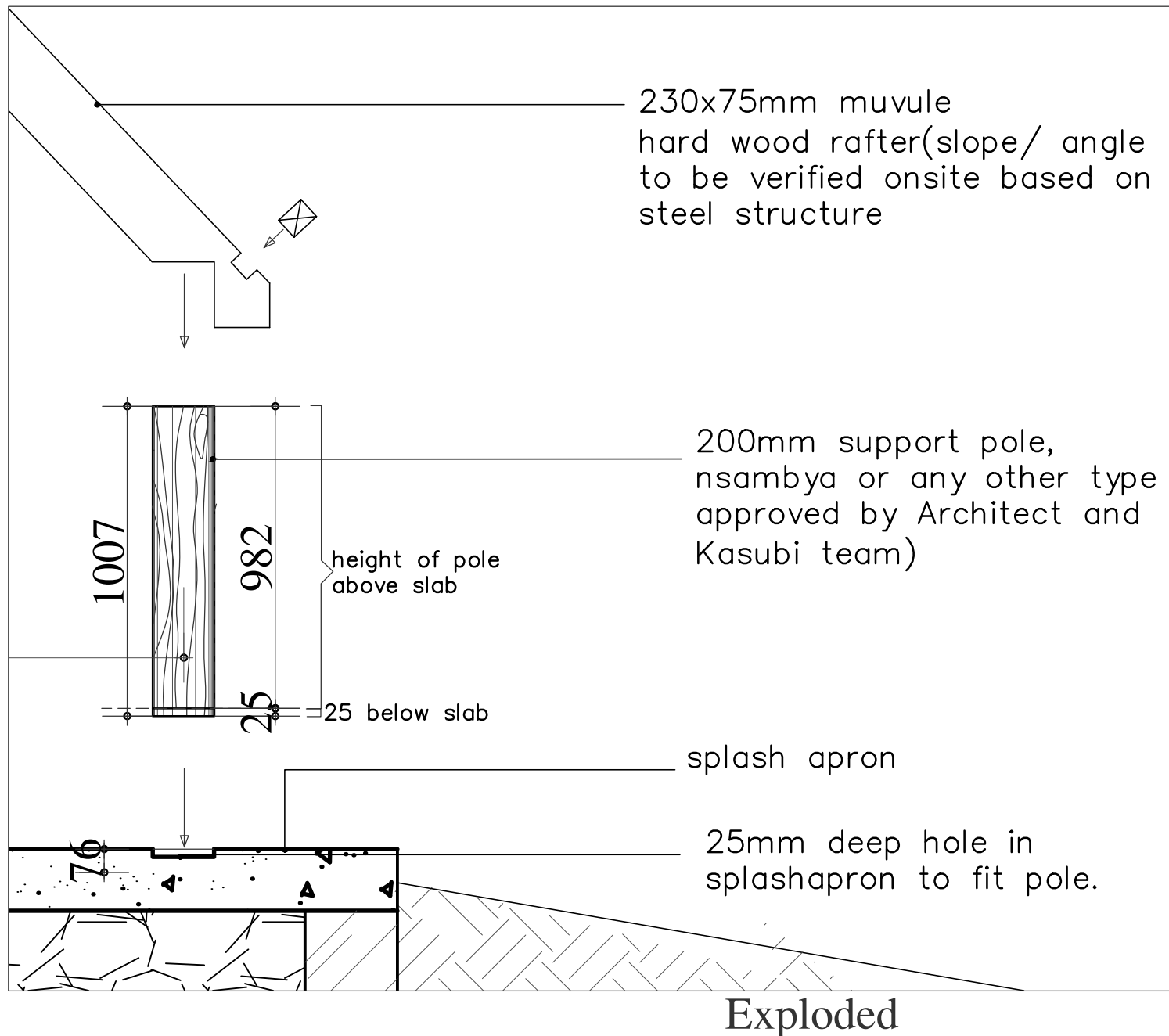


IMUZIBU AZAANLA MPANGA section xxx
KASUBI TOMBS scale 1:750



FLOOR PLAN
MUZIBU AZAALA MPANGA
KASUBI TOMBS scale 1: 75





NOTE: ALL STRUCTURAL STEEL WORK TO BE COATED WITH INTRUMESCENT COATING AS PER MANUFACTURERS SPECIFICATION TO A FIRE PROTECTION OF 1.5 HOURS

ALL TIMBER TO BE HARDWOOD STRUCTURAL TIMBER KILN DRIED TO LESS THAN 17% MOISTURE CONTENT

75x75x6mm
ANGLE BRACING

75x75x6mm
ANGLE BRACING

IPE100 PURLINS
@ 1200mm CENTRES

230x75
TIMBER RAFTERS

NOTES:

- Contractor must submit shop drawings to engineers for approval prior to fabrication
- All welds to 6mm fillet welds
- Structural steel to be grade 43 to B.S 4360
- All steel surfaces shall be thoroughly power brushed and cleaned with approved solvent and coated with 3 coats of red oxide primer type 'A' to B.S 2523, all scratches to be repainted
- All dimensions must be checked on site before fabrication commences
- All holes in steel work to be drilled.
No gas cutting of steel work to be carried out without the permission of Engineer
- All bolts and nuts to be grade 8.8
- The quality of all materials and workmanship shall comply with the requirements of the most recent issues of relevant british standards and codes of practice

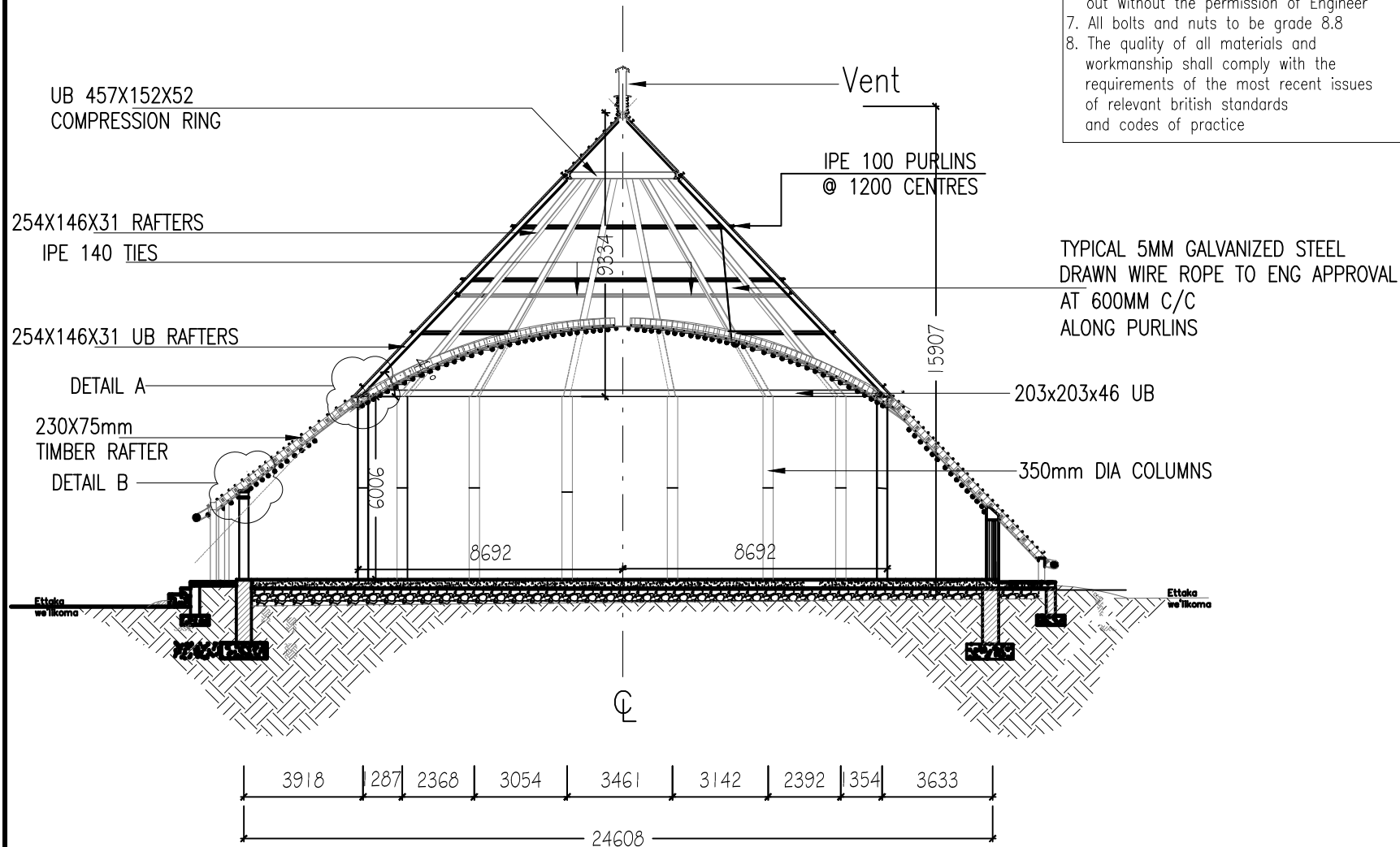
Description	Date	By	Chk'd	
Purpose of Issue	Rev.	Date	Authorised	
CLIENT:				
BUGANDA KINGDOM				
PROJECT CONSULTANT:				
UGANDA CONSULTING ENGINEERS P.O. BOX 690 KAMPALA				
PROJECT:				
PROPOSED DEVELOPMENT OF KASUBI TOMBS, PLOT 2777, BLOCK 203, KASUBI				
DRG TITLE:				
ROOF LAYOUT				
DESIGNED: M.N	DRG No.:			
DETAILED: M.L.K	BK/MAM/03B			
DATE: 20 OCT 2010				
SCALE: As Shown				

NOTE:

All structural steel work to be coated with intrumescent coating as per manufacturers specification to a fire protection of 1.5 hours

NOTES:

1. Contractor must submit shop drawings to engineers for approval prior to fabrication
2. All welds to 6mm fillet welds
3. Structural steel to be grade 43 to B.S 4360
4. All steel surfaces shall be thoroughly power brushed and cleaned with approved solvent and coated with 3 coats of red oxide primer type 'A' to B.S 2523, all scratches to be repainted
5. All dimensions must be checked on site before fabrication commences
6. All holes in steel work to be drilled.
No gas cutting of steel work to be carried out without the permission of Engineer
7. All bolts and nuts to be grade 8.8
8. The quality of all materials and workmanship shall comply with the requirements of the most recent issues of relevant british standards and codes of practice



TYPICAL 5MM GALVANIZED STEEL
DRAWN WIRE ROPE TO ENG APPROVAL
AT 600MM C/C
ALONG PURLINS

Description	Date	By	Chk'd
Purpose of Issue	Rev.	Date	Authorised

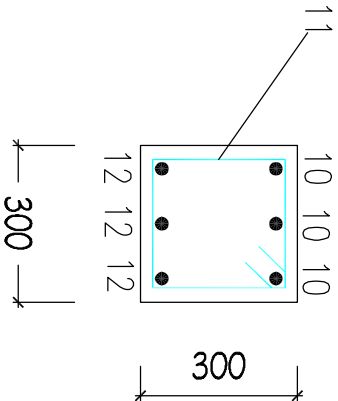
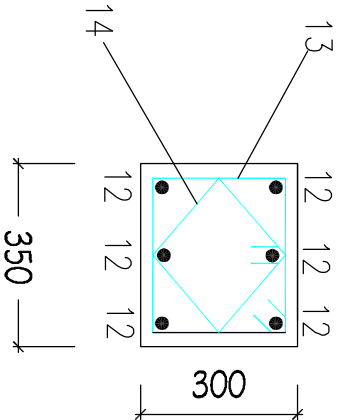
CLIENT:
BUGANDA KINGDOM

PROJECT CONSULTANT:
UGANDA CONSULTING ENGINEERS
P.O. BOX 690 KAMPALA

PROJECT:
PROPOSED DEVELOPMENT OF KASUBI
TOMBS, PLOT 2777, BLOCK 203, KASUBI

DRG TITLE:
SECTION A-A
SHEET 01 OF 06

DESIGNED: M.N	DRG No.:
DETAILED: M.L.K	BK/MAM/04C
DATE: 20 OCT 2010	
SCALE: As Shown	



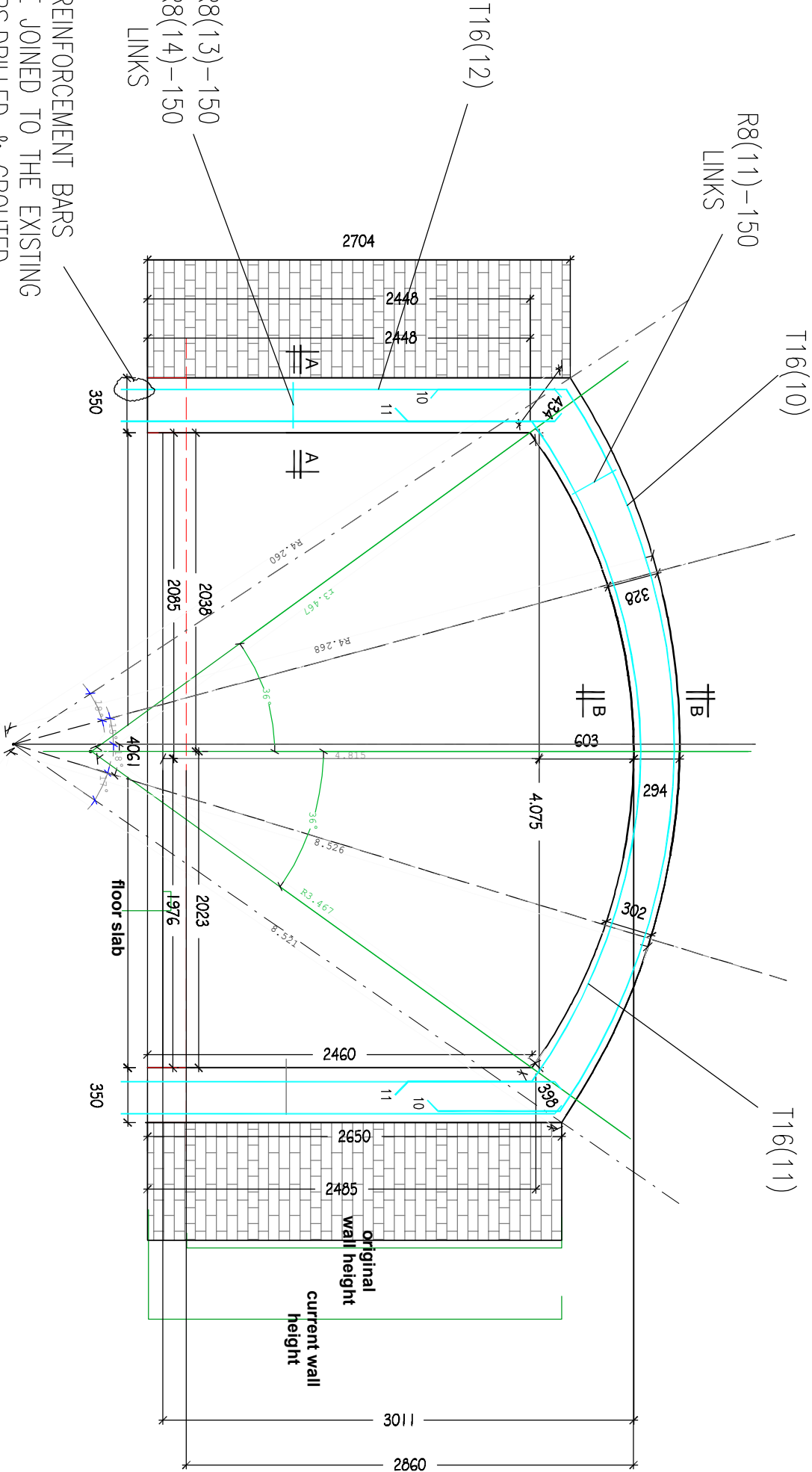
SECTION A:A

SCALE 1:20

SECTION B:B

SCALE 1:20

- NOTES:
- Reinforcement
 - High yield bars to be deformed type 2 high yield bars to B.S. 4449
 - Mild steel to be round bars to B.S. 4449
 - Minimum cover to steel in Columns = 40mm
 - Reinforced concrete to have works cube strength of 25N/mm²
 - 20mm maximum aggregate size
 - All dimensions must be verified on site before cutting any reinforcement
 - Minimum reinforcement overlap to be 50 times the diameter of the reinforcement bar used



REINFORCEMENT BARS TO BE JOINED TO THE EXISTING BARS,DRILLED & GROUTED WITH EPOXY

SIDE ARCH

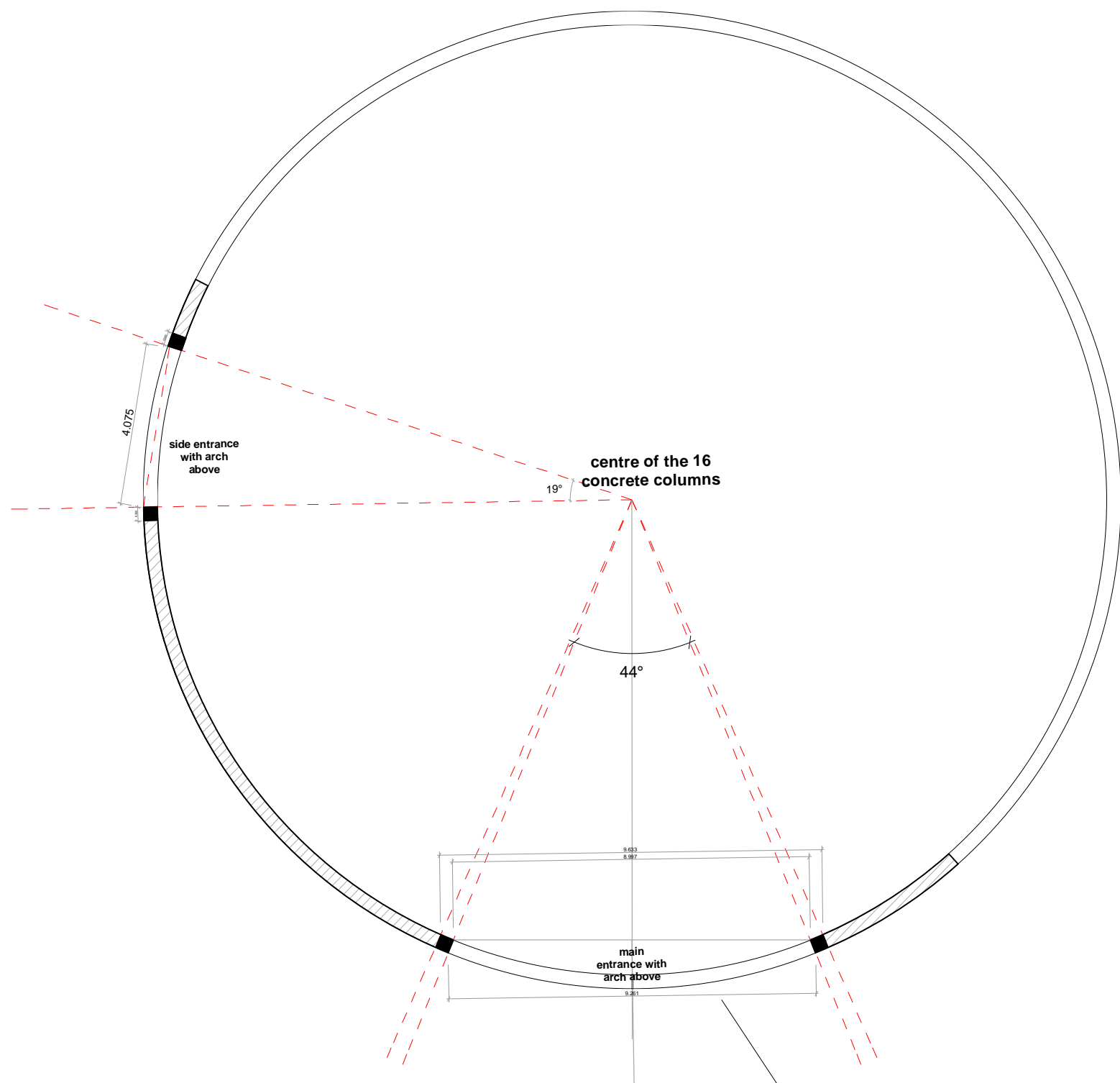
SCALE 1:50

Description				Date	By	Chk'd
Purpose of Issue				Rev.	Date	Authorised
CLIENT:						
BUGANDA KINGDOM						
PROJECT CONSULTANT:						
UGANDA CONSULTING ENGINEERS P.O. BOX 690 KAMPALA						
PROJECT:						
PROPOSED DEVELOPMENT OF KASUBI TOMBS, PLOT 2777, BLOCK 203, KASUBI						
DRG TITLE:						
PROPOSED SIDE ARCH RC DETAILS						
DESIGNED: M.N		DRG No.:				
DETAILED: M.L.K				BKMAN0041		
DATE: 20 SEPT 2014						
SCALE: As Shown						

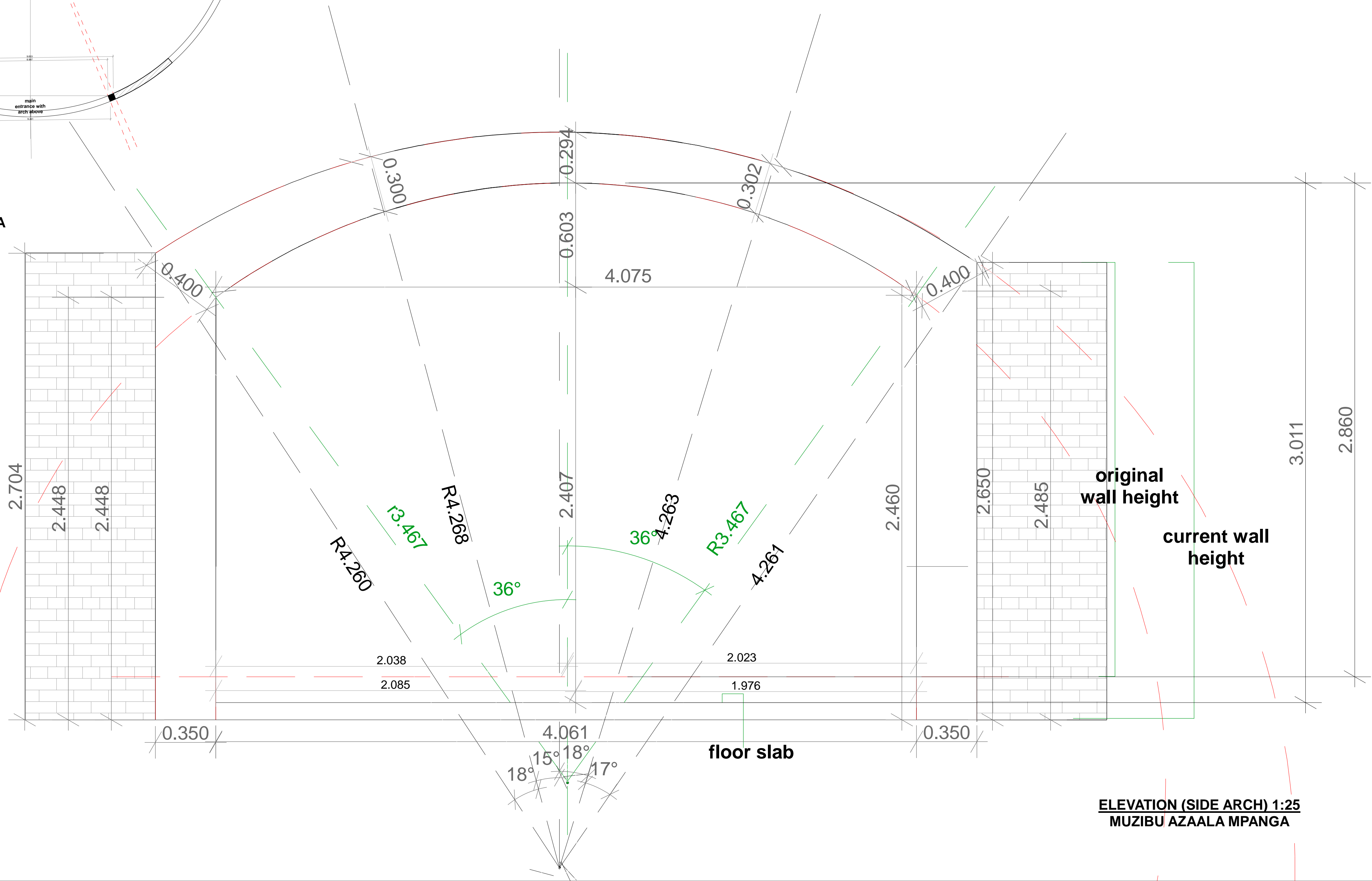
ALL DIMENSIONS TO BE VERIFIED ON SITE

REVISIONS

Rev. No.	Date	Int	Description



PLAN 1:100
MUZIBU AZAALA MPANGA



ELEVATION (SIDE ARCH) 1:25
MUZIBU AZAALA MPANGA

Client
BUGANDA KINGDOM
P.O BOX 1754,
KAMPALA, UG

Project
PROPOSED RE-CONSTRUCTION
OF KASUBI TOMBS
NABULAGALA.

Drawing
SIDE ARCH-SIDE ENTRANCE
Muzibu Azaala Mpanga details

Scale 1:100,1:25	Date AUGUST, 2014	Drawn JNK
Project No. 2010/006	Drawing No. NA/GA/100	Revision No. 1

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