



AGA KHAN TRUST FOR CULTURE

Historic Cities Support Programme



QUARTERLY PROGRESS REPORT

June - August 2007

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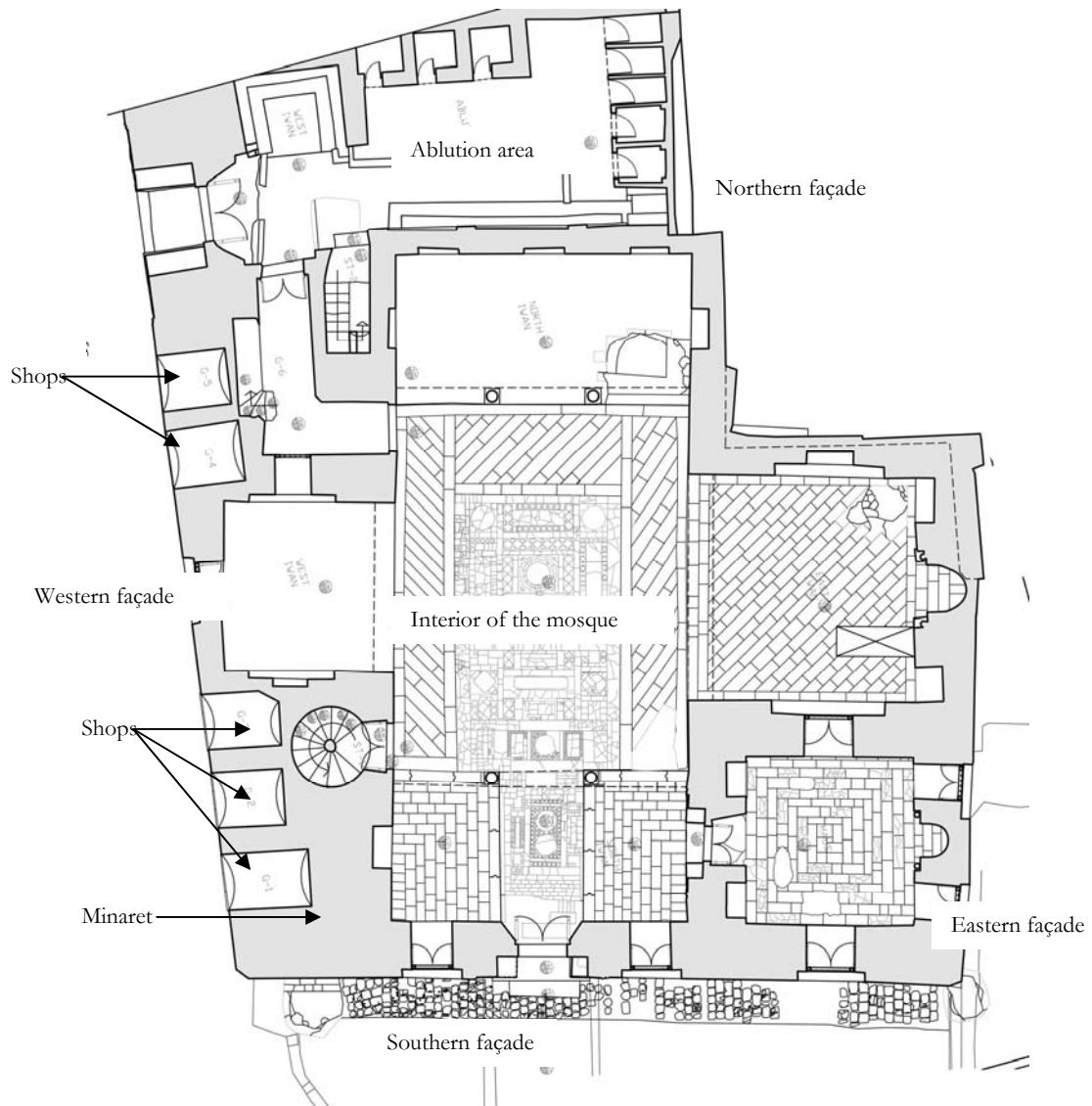
1. Description of the Project's components

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1. The exterior elevations:
2. The roof:
3. The minaret:
4. The ablution area:
5. The interior of the Mosque:

1. Description of the Project's components

- | | |
|--------------------------------|--|
| 1. The exterior elevations: | Southern façade, eastern façade, northern façade, western façade |
| 2. The roof : | Roof of the mosque's courtyard, iwans and rooms |
| 3. The minaret: | Minaret platforms and elevations |
| 4. The ablution area: | Ablution area and electro-mechanical items |
| 5. The interior of the Mosque: | Interior floor, elevations and ceilings of the Mosque/mausoleum |



2. TECHNICAL REPORT

Summary

The architectural surveys of the mosque are constantly being updated. The existing condition drawings of the mosque in terms of plans, elevations and sections are complete. Wooden details and architectural proposals of missing elements are in progress. Drawings of the interventions started and will be running in parallel with the physical activities.

As mentioned in the previous report fine and architectural conservation and restoration activities are complete on the Southern, Northern and Eastern facades. The activities on Western façade started and are in progress. Due to the numerous cracks and bulging of the western façade, careful study and procedure was developed for the architectural restoration to ensure the stability of the façade and to prevent further damage to it.

All activities on the minaret are complete and the scaffolding will be removed. Fine restoration and retouching activities of the exterior of the dome are proceeding well and show good results.

Electrical activities are in progress and lighting tests were carried out for the exterior of the mosque.

Architectural restoration started on the interior of the mosque, as well as fine restoration of the wooden elements. The repair and production of damaged or missing wooden screens, shutters and doors is in progress.

1. Documentation and design:

Architectural documentation:

All existing condition drawings of the mosque in terms of elevations, plans and sections are complete.

Shop drawings for the missing or damaged wooden elements were produced.

Intervention drawings indicating stone replacement, new wooden elements, etc. started and are in progress.



View of the exterior of the mosque during the lighting test. The photo also shows the completed activities of the exterior of the dome and minaret, as well as the shobkshaykha's insulation.

2. Conservation-restoration work:

Works completed during the period June-August 2007

Exterior façades:

- Northern, Southern and eastern façades

Restoration activities were completed on the three façades. The brick walls were plastered; the final finishing coat of limewash will be applied at the end of the project. The design and agreement with SCA concerning the grills (either metal or gypsum) to be installed in the openings is in progress.

- Western façades

The western façade shows bulging in more than one area as well as cracks that appear from the interior of the rooms behind the façade. After investigation it was clear that the bulging and the cracks are due to the type of construction of this façade. The thickness of the wall is in some areas less than 45 cm and is composed of a stone wall on the exterior and a thin brick wall in the interior; these two are not connected and tend therefore to detach. Therefore it was decided to reconnect the two elements of the wall by removing some stones and prolonging them into the brick wall; in some areas stainless steel bars were also inserted into the stones also protruding up to the brick wall; in few areas the thickness of the brick part of the wall had to be slightly enlarged.

Stone replacement activities started on the entrance portal; this procedure is delicate due to the decorative nature of the stones. This work is in progress.

Stone cleaning activities of the main part of the façade were completed using poulticing (of bentonite, paper pulp and a low concentration of 3-5% ammonium bicarbonate). The stones on the right side of the façade (below the minaret) are of different nature and do not have a smooth surface. Poulticing is being applied for their cleaning; after which some stones will be cleaned using the micro-sand-blaster using fine red sand (brand name: Trenemax). The crenellations were also cleaned with the micro-sand-blaster.

The work on the side entrance - with the stalactite decoration- started by mechanical cleaning followed by poulticing using in this case ammonium carbonate.

The dismantled wooden elements were repaired and are being painted.

- Shops

Some of the shops were in a bad structural condition and required a lot of brick repair of their vaults and walls; during this activity, electrical wires were also installed to fit the use requirements of the shop owners. The shops were then plastered. The shops with stone vaults are currently being cleaned.

The wooden doors of the shops were repaired; their modern paint layer was cleaned using the paint remover and in other cases the hot air gun. The wood of the last shop's door was in a very bad condition and a new door was accordingly manufactured.



View of the interior of the room (1.2) on the western façade during brick repair activities and extending the stones into the brick wall (left photo shows the opening for the stone before placing it into the wall showing the thin thickness of the wall).



Poulticing and cleaning of the muqarnas entrance porch and its results





Brick repair and reconstruction activities of damaged and crumbling brick walls in the shops on the western façade



Electrical boxes for the shops



Plastering the brick walls of the shops

Minaret:

All remaining activities on the minaret were finalized: the balcony was tiled, the insulation of the upper wooden part was insulated in lead and the missing part of the crescent was manufactured and put in place. The outer and inner parts were plastered and the interior lights were installed.



Placing the lead sheet of the insulation of the minaret



View of the crescent of the minaret



View of the interior of the minaret

Exterior of the dome

The retouching of the inscription band and its floral decoration proceeded well and is almost complete. Samples for the upper crenellations crowning the dome were made of plaster. A complete crenellation was used for the samples. It was opted to carve the crenellations and retouch them in the same way like the inscription band. The intervention drawing is currently being completed to clearly show the retouched and carved parts and differentiate them from the original existing ceramics.

The cleaning of the lower part of the dome was finalized; the damaged or missing mortar parts were replastered. The crescent was restored and re-erected on top of the dome.



View of the complete existing crescent



Detail of the sample of the crescent during retouching



View of the crescents and the retouching tests of the floral pattern

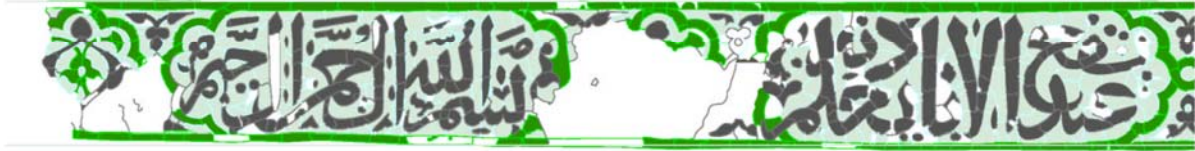


View showing the exterior of the mausoleum with the new crenellations





Intervention

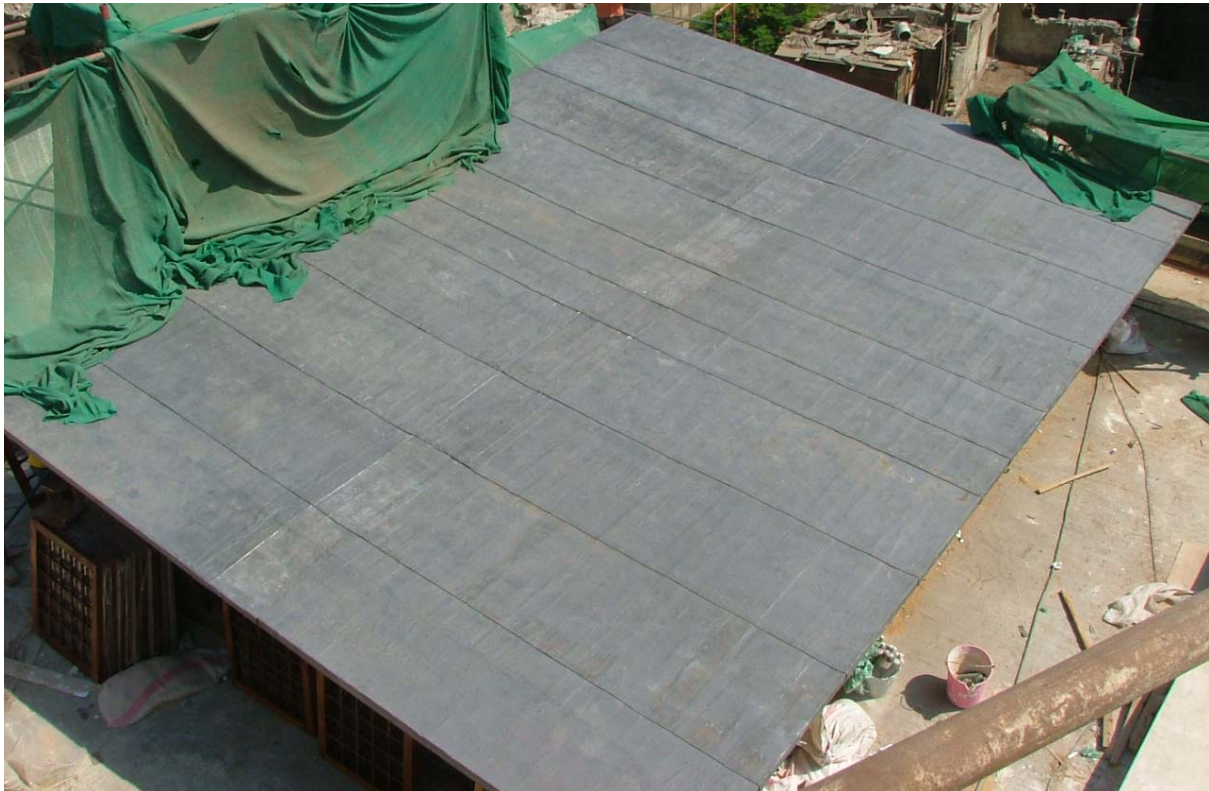


After cleaning

Roofs

The lead was placed on the central shokhshaykha and all its structure was painted. The manufacture of the wooden screens was completed and they are currently being painted. A mesh of steel, similar to the one of the *Comité* will be installed to prevent birds from entering the mosque. It was designed with wider dimensions in order to bring more light into the space.

The southern and eastern ceilings will be insulated when the scaffolding of the dome and the minaret will be removed.



Central shokhshaykha after completing the insulation with lead



View of the samples of the steel mesh (on the left) and the one of the Comité (on the right)



Work of painting the shokhsbaykha and its wooden screens



Interior of mosque rooms

- Mezzanine, first floor and second floor rooms

Brick repair activities took place in room M1, also in relation to the western façade to ensure the bonding between the exterior stones of the façade and the brick part in the rooms, as mentioned earlier in the report. The wooden beams and shingles of the ceiling of room M1 (being the flooring of room 1.2) were in a very bad condition and were replaced with new ones. This was followed by brick repair activities in room 1.2 and bonding with the western façade. This activity was completed and currently the room is being plastered.

Brick repair activities started in the corridor leading to the ablution area. The vault was seriously cracked and was repaired through the upper room (1.3).

Restoration and cleaning of the plaster in room 2.2 started and is almost complete; it was carried out using poulticing with a 3% ammonium carbonate. The ceiling of the room was painted.



Brick repair and stitching activity in room M1



Erecting the wooden ceiling of room M1



Plastering of room M1



Fixing the vault of the corridor G6 through the upper room 1.3



Poulticing activities of the walls of room 2.2



Preparation for painting the ceiling of room 2.2



View of the upper part of room 2.2 after painting the ceiling and poulticing the walls

Mosque interior and Iwans

- Stone conservation

Some stone replacement activities were carried out in the mosque. Documentation of some fine details took place.



Stone replacement activities in the west iwan



Documenting the stucco roundel in the west iwan

- Woodwork restoration

Woodwork restoration of doors, windows and shutters is currently in progress and will be proceeding during the following months. In general, depending on the state of conservation of the item, carpentry restoration takes place followed by fine cleaning and conservation of the wooden elements.



Activities of cleaning the wooden doors





Removal of modern paint using the hot air gun



Manufacturing a new wooden door replacing the damaged one of shop 5

Ablution area

It was originally planned to construct the ablution area during 2007; nevertheless it was decided to delay this activity as the ablution area is currently being used as storage. Design drawings are currently being prepared for the new ablution area.

Works planned during the period September-November 2007

Exterior facades:

Finalize all cleaning and conservation activities on the western façade.

Complete the missing crenellations on the western and southern façades.

Continue with the stone replacement activities on the entrance porch of the western façade.

Remove the scaffolding on all façades.

Minaret:

Remove the scaffolding of the minaret.

Exterior of the dome

Finalize the retouching of the outer inscription band.

Dismantle the scaffolding. After viewing the complete dome, it would be necessary to take a decision concerning the reconstruction of the missing inscriptions on the band and proceed with the decision taken.

Interior of the dome

Start with the consolidation, injection and cleaning activities of the interior stucco of the mausoleum.

Roof

Carry out the insulation of the southern and eastern ceilings.

Finalize the painting of the wooden screens and the manufacturing of the mesh for the *shokhshaykeha*.

Interior of mosque rooms

Start the tiling of the rooms.

Complete the plastering of the walls of the rooms whose brick walls were repaired.

Start painting the wooden ceilings of the rooms.

Interior of the mosque

Erect the scaffolding in the mosque courtyard and the iwans.

Start the cleaning of the wooden shingles of the *shokhshaykeha* and replacing the damaged ones.

Start with the fine restoration of the wooden decorated ceilings of the iwans as well as the walls.

Ablution area

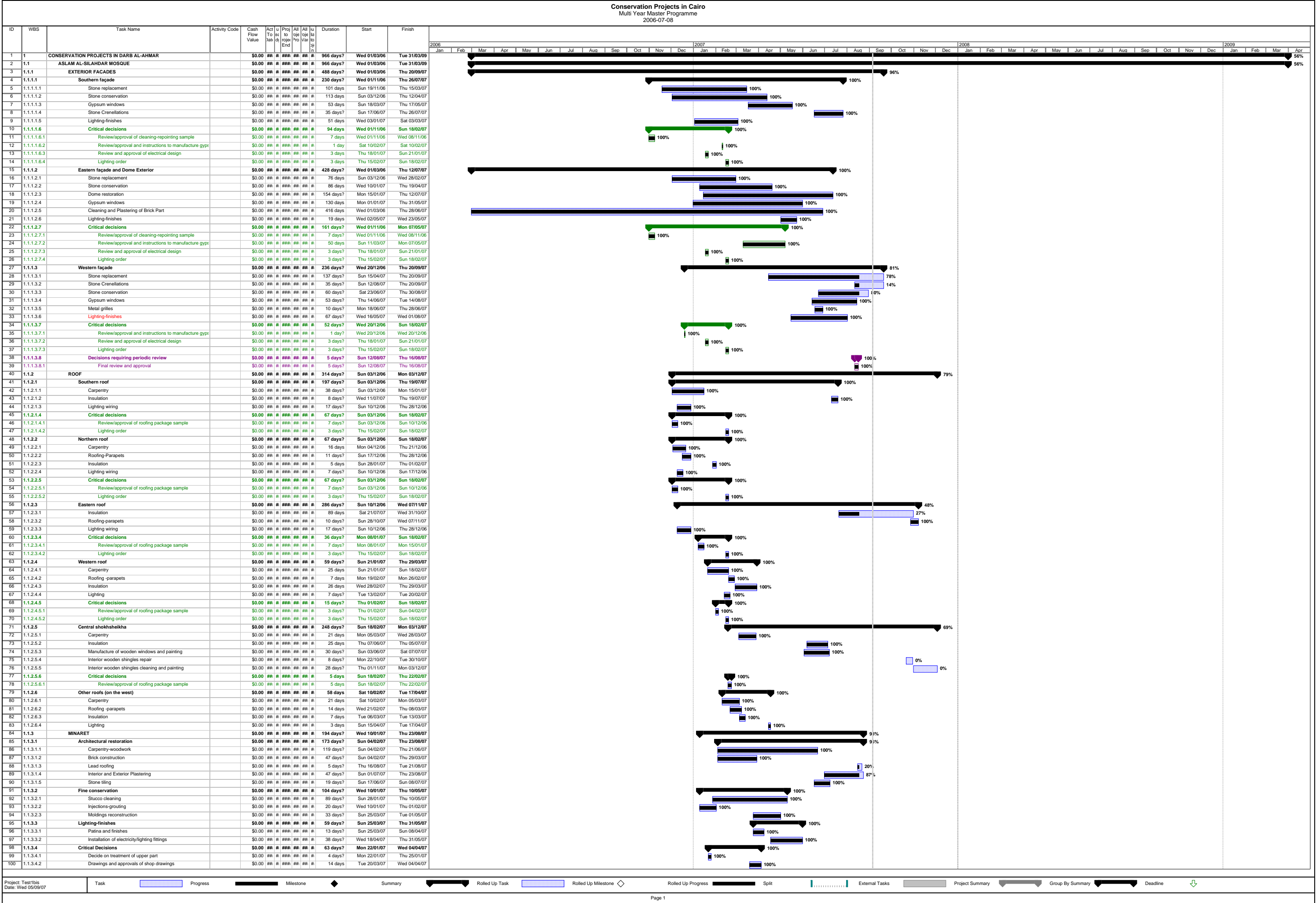
Finalize the design of the ablution area and plan the start and end date of the construction of the ablution area.

This report was prepared by Christophe Bouleau and Dina Bakhoun on 5 September 2007.



3. Appendix:

- Master schedule by area and activity



Conservation Projects in Cairns
Multi Year Master Programme
2006-07-08

WBS	Task Name	Activity Code	Cash Flow Value	Act To Jan 07	u to Proj End	Proj All oje Var to n	All lu la n	Duration	Start	Finish	2006																																																2007																																																2008																																																2009																																															
											Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr																																																																																																																																																								
101	1.1.4	ABLUTION AREA	\$0.00	##	##	##	##	437 days?	Sun 07/01/07	Thu 29/05/08																																																																																																																																																																																																
102	1.1.4.1	Phase One	\$0.00	##	##	##	##	351 days?	Sun 14/01/07	Tue 26/02/08																																																																																																																																																																																																
103	1.1.4.1.1	Architectural construction	\$0.00	##	##	##	##	351 days?	Sun 14/01/07	Tue 26/02/08																																																																																																																																																																																																
104	1.1.4.1.1.1	Demolishing remains	\$0.00	##	##	##	##	43 days?	Sun 14/01/07	Sun 04/03/07																																																																																																																																																																																																
105	1.1.4.1.1.2	Final demolition	\$0.00	##	##	##	##	15 days	Thu 15/11/07	Sun 02/12/07																																																																																																																																																																																																
106	1.1.4.1.1.3	Stone Replacement	\$0.00	##	##	##	##	64 days?	Sun 03/06/07	Wed 15/08/07																																																																																																																																																																																																
107	1.1.4.1.1.4	Excavation	\$0.00	##	##	##	##	249 days?	Tue 06/03/07	Thu 20/12/07																																																																																																																																																																																																
108	1.1.4.1.1.5	Foundations	\$0.00	##	##	##	##	15 days?	Sun 06/01/08	Tue 22/01/08																																																																																																																																																																																																
109	1.1.4.1.1.6	Brickworks	\$0.00	##	##	##	##	21 days?	Thu 24/01/08	Sun 17/02/08																																																																																																																																																																																																
110	1.1.4.1.1.7	Electricity works	\$0.00	##	##	##	##	11 days?	Sun 03/02/08	Thu 14/02/08																																																																																																																																																																																																
111	1.1.4.1.1.8	Concrete slabs	\$0.00	##	##	##	##	15 days?	Sun 10/02/08	Tue 26/02/08																																																																																																																																																																																																
112	1.1.4.2	Phase Two	\$0.00	##	##	##	##	113 days?	Sun 20/01/08	Thu 29/05/08																																																																																																																																																																																																
113	1.1.4.2.1	Sanitary works	\$0.00	##	##	##	##	21 days?	Sun 10/02/08	Tue 04/03/08																																																																																																																																																																																																
114	1.1.4.2.1.1	Water supply systems	\$0.00	##	##	##	##	7 days?	Sun 10/02/08	Sun 17/02/08																																																																																																																																																																																																
115	1.1.4.2.1.2	Drainage systems	\$0.00	##	##	##	##	21 days?	Sun 10/02/08	Tue 04/03/08																																																																																																																																																																																																
116	1.1.4.2.2	Interior finishes	\$0.00	##	##	##	##	113 days?	Sun 20/01/08	Thu 29/05/08																																																																																																																																																																																																
117	1.1.4.2.2.1	Stone/marble tiling	\$0.00	##	##	##	##	5 days?	Wed 05/03/08	Mon 10/03/08																																																																																																																																																																																																
118	1.1.4.2.2.2	Plaster/painting	\$0.00	##	##	##	##	20 days?	Wed 12/03/08	Thu 03/04/08																																																																																																																																																																																																
119	1.1.4.2.2.3	Woodwork	\$0.00	##	##	##	##	49 days?	Sun 20/01/08	Sun 16/03/08																																																																																																																																																																																																
120	1.1.4.2.2.4	Lighting and sanitary fittings	\$0.00	##	##	##	##	35 days	Sun 20/04/08	Thu 29/05/08																																																																																																																																																																																																
121	1.1.4.3	Critical Decisions	\$0.00	##	##	##	##	335 days?	Sun 07/01/07	Thu 31/01/08																																																																																																																																																																																																
122	1.1.4.4.1	Start and finalize all designs	\$0.00	##	##	##	##	32 days?	Sun 07/01/07	Mon 12/02/07																																																																																																																																																																																																
123	1.1.4.3.2	Bid and chose sanitary contractor	\$0.00	##	##	##	##	22 days?	Sat 05/05/07	Tue 29/05/07																																																																																																																																																																																																
124	1.1.4.3.3	Start and complete design of the doors	\$0.00	##	##	##	##	26 days?	Wed 02/01/08	Thu 31/01/08																																																																																																																																																																																																
125	1.1.5	MOSQUE/MAUSOLEUM (interior)	\$0.00	##	##	##	##	684 days	Tue 28/11/06	Mon 02/02/09																																																																																																																																																																																																
126	1.1.5.1	Architectural restoration	\$0.00	##	##	##	##	592 days	Tue 28/11/06	Sat 18/1/008																																																																																																																																																																																																
127	1.1.5.1.1	Stone construction	\$0.00	##	##	##	##	195 days	Sun 17/12/06	Tue 31/07/07																																																																																																																																																																																																
128	1.1.5.1.2	Brick construction and repair	\$0.00	##	##	##	##	257 days	Tue 28/11/06	Sun 23/09/07																																																																																																																																																																																																
129	1.1.5.1.3	Plastering of brick walls	\$0.00	##	##	##	##	264 days	Sat 09/12/06	Thu 11/10/07																																																																																																																																																																																																
130	1.1.5.1.4	Stone tiling in the rooms	\$0.00	##	##	##	##	213 days	Thu 15/02/07	Sun 21/10/07																																																																																																																																																																																																
131	1.1.5.1.5	Stone tiling in the mosque	\$0.00	##	##	##	##	120 days	Sun 01/06/08	Sat 18/10/08																																																																																																																																																																																																
132	1.1.5.1.6	Woodwork - ROOF then REPAIR then NEW ITEMS	\$0.00	##	##	##	##	385 days	Mon 08/01/07	Mon 31/03/08																																																																																																																																																																																																
133	1.1.5.1.7	Interior Gypsum windows of MAU	\$0.00	##	##	##	##	119 days	Thu 13/03/08	Tue 29/07/08																																																																																																																																																																																																
134	1.1.5.2	Electricity/lighting	\$0.00	##	##	##	##	668 days	Sun 17/12/06	Mon 02/02/09																																																																																																																																																																																																
135	1.1.5.2.1	Installation of electrical wiring for lights and sound	\$0.00	##	##	##	##	247 days	Sun 17/12/06	Sun 30/09/07																																																																																																																																																																																																
136	1.1.5.2.2	Installation of sound system	\$0.00	##	##	##	##	10 days	Sun 11/01/09	Wed 21/01/09																																																																																																																																																																																																
137	1.1.5.2.3	Installation of lighting fittings	\$0.00	##	##	##	##	20 days	Sun 11/01/09	Mon 02/02/09																																																																																																																																																																																																
138	1.1.5.3	Fine conservation	\$0.00	##	##	##	##	438 days	Sun 15/04/07	Sat 06/09/08																																																																																																																																																																																																
139	1.1.5.3.1	Stone/stucco cleaning	\$0.00	##	##	##	##	300 days	Sun 23/09/07	Sat 06/09/08																																																																																																																																																																																																
140	1.1.5.3.2	Stucco injections	\$0.00	##	##	##	##	270 days	Sun 23/09/07	Sat 02/08/08																																																																																																																																																																																																
141	1.1.5.3.3	Marble columns and tiling conservation	\$0.00	##	##	##	##	60 days	Sun 13/01/08	Sat 22/03/08																																																																																																																																																																																																
142	1.1.5.3.4	Molding/muqarnas repairs/completion	\$0.00	##	##	##	##	300 days	Sun 23/09/07	Sat 06/09/08																																																																																																																																																																																																
143	1.1.5.3.5	Doors/shutters/cupboards cleaning/painting	\$0.00	##	##	##	##	300 days	Sun 15/04/07	Sat 29/03/08																																																																																																																																																																																																
144	1.1.5.3.6	Painted ceilings conservation	\$0.00	##	##	##	##	160 days	Sun 28/10/07	Wed 30/04/08																																																																																																																																																																																																
145	1.1.6	SITE SUPERVISION-ADMINISTRATION	\$0.00	##	##	##	##	887 days?	Thu 01/06/06	Tue 31/03/09																																																																																																																																																																																																
146	1.1.6.1	AKCS-E Internal services	\$0.00	##	##	##	##	887 days?	Thu 01/06/06	Tue 31/03/09																																																																																																																																																																																																
147	1.1.6.1.1	Technical supervision	\$0.00	##	##	##	##	887 days?	Thu 01/06/06	Tue 31/03/09																																																																																																																																																																																																
148	1.1.6.1.2	Site Administration-Accounting	\$0.00	##	##	##	##	887 days?	Thu 01/06/06	Tue 31/03/09																																																																																																																																																																																																
149	1.1.6.2	Consultants	\$0.00	##	##	##	##	887 days?	Thu 01/06/06	Tue 31/03/09																																																																																																																																																																																																
150	1.1.6.2.1	Design-supervision services	\$0.00	##	##	##	##	887 days?	Thu 01/06/06	Tue 31/03/09																																																																																																																																																																																																
151	1.1.6.2.2	Other services	\$0.00	##	##	##	##	887 days?	Thu 01/06/06	Tue 31/03/09																																																																																																																																																																																																