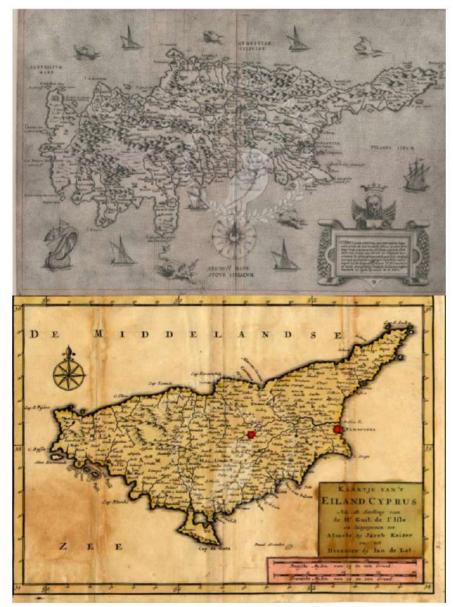
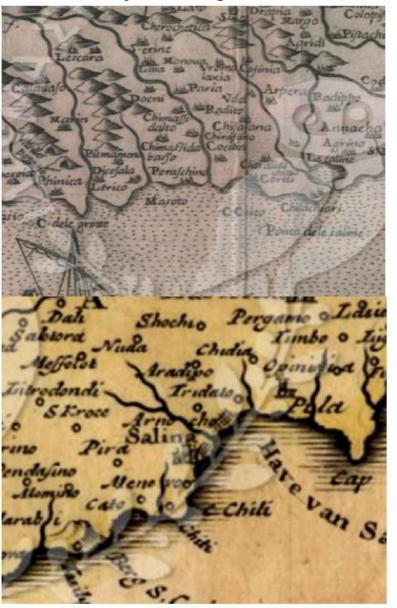


All the projects are funded by the European Union



Dating of the village. As attested by historic maps of the 16th century, the village was in existence then.

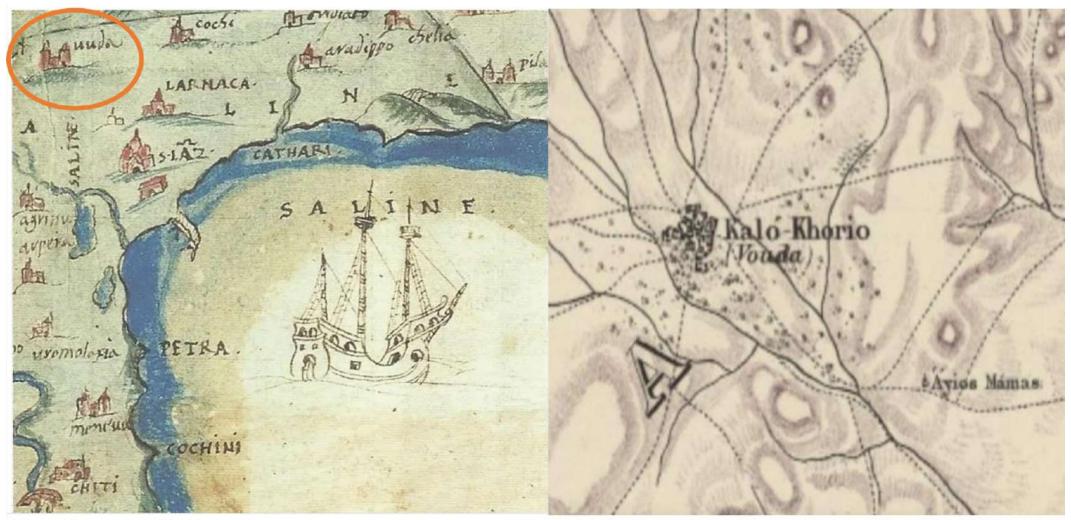




Top maps by Giovan Francesco (1552-1575) « Cyprus Insula nobilissima », Venice 1566. Detail on top right shows village of Kalo Chorio/Vuda marked as "Vda"

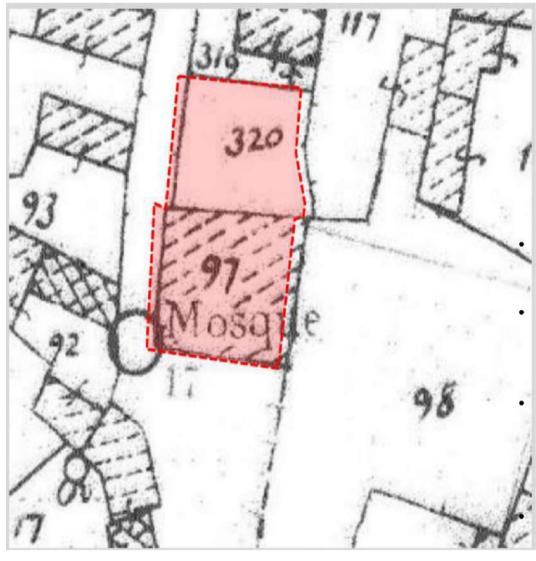
Bottom map by Kaartje Van't Eiland Cyprus, 1747, showing Kalo Chorio/Vuda as Nuda.

The village continued to be in existence in the 19th c. Goodwin mentions that the estate of Vouda was still owned by one person, "The Efendi", up until the year 1850. In 1836 in his diaries, Lorenzo Warrner Pease, mentions the neighbouring village of Klavdia, as part of the feudal estate of Vouda (now Kalochorio)".



Map of Leonidas Attar 1542

Map of 1882 published in 1885 by Kitchener showing Kalo Khorio (Vouda) (detail of Map of Cyprus by Kitchener 1882-85, Sheet 10).



The mosque Kalo Chorio/Vuda lays on the geographical references of:

GPS Identification: Y: 34.927944, X: 33.537028 (34 Degree • 55'40.6"N 33 Degree32'13.3"E);: Sheet 40, Plan 4210V01, Plot 97, 320 (Fig. 6).

The first historical account of the mosque appears in an Evgaf documents of 1882. The information pertains to a dysfunctional house with a collapsed roof (it notes that Forty pounds were needed to repair the structure). It was possibly bought and restored as a mosque after the year 1882. Emir Ali Haci Mustafa is noted as the mosque's trustee and Ahmet Efendi the Imam. Their mentions makes us speculate whether there was another mosque being used before the building under study was bought and restored as a mosque.

The Minber and Mihrab must have been added when the building changed use.

November 1923, is the completion date of the minaret's construction, with donations from Silahtar Huseyin Hamid Aga

The year 1928 is the date of the opening of the north door and the re-plastering of the walls. The donation for the works was made by the Muhtar of the time, Mustafa Huseyin Gazi

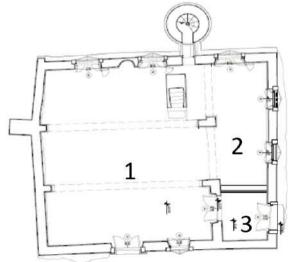
By 1933 a boys' school was operational in the mosque as a fund was drawn up to pay for the books and other necessities of poor and orphaned children of the medrese.

In the 1950's the minaret collapsed down to its balcony possibly due to earthquake of 10th September 1953 and was rebuilt by Osman Huseyin Hocaoglu of Peristerona

Description of the spaces of the mosque







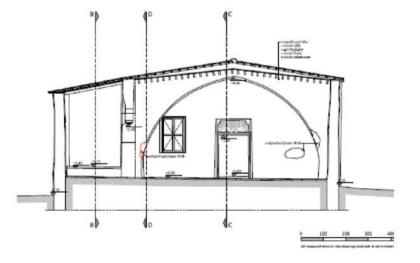
- The building has a square plan with a yard to its north.
- The prayer room (1) is the large centre space with two arches
- The school (2) was connected at a later stage to the prayer room through openings of small arches.
- The space to the southwest the funerary room, (3) is lower and today divided by a small wall which in the past probably extended to the ceiling.

Description of interior of mosque









- The first entrance of the house was possibly the western one (red)
- The spaces to the south were only later connected to the main hall by arches (yellow)
- The doors and windows all probably belong to the 1928 phase
- The roof was possibly raised and retiled at the same time (1928).
- The floor was covered with gypsum flag stones ("Cyprus marble")

Description of exterior site of mosque

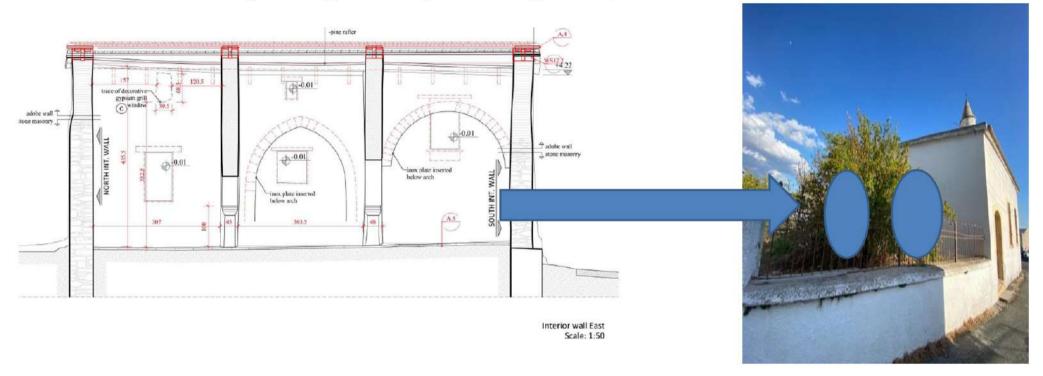






- There is a garden to the north of the mosque with a low enclosure wall and fence which belong to the early decades of the 20th century. The low wall is constructed of local stone but capped with concrete and wrought iron railings
- Originally, an enclosure of a yard, especially one of a house would have been quite high with a wooden door as an entry point. The lower walls and the iron grills belong to the early decades of the 20th century when industrialized iron was imported to the island. It is possible that it was rebuilt in its current state in the year 1928, as it is similar to the iron decoration above the northern door, therefore contemporary to it.

Extension of existing building into todays northern garden space







 Where the garden now lays there existed either an extension of the building or there was intention to extend the building as built in arches were discovered during the restoration works

The minbar and mihrab

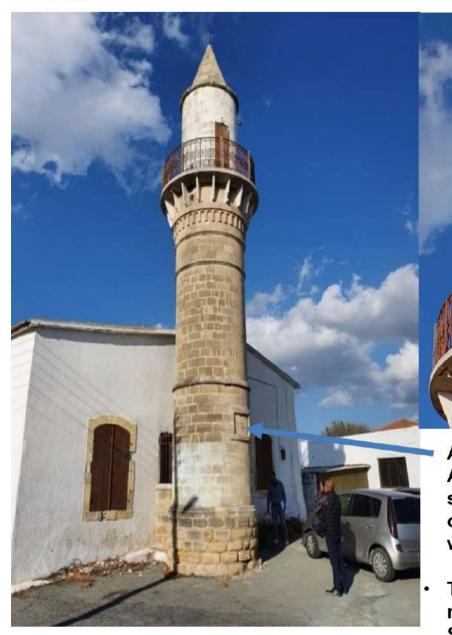


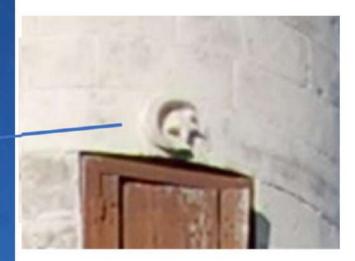




- The Minbar is built of stone in a simple design with 9 steps (except two later additions) up to the top. At the top 4 columns support triangular cap (tower).
- The Mihrab, a niche in the wall, directs the worshiper towards Mecca "Qible".
 Its location between the two windows but not centred, shows that it post-dates the wall. It is extremely simple (or robbed of its decorations.)

The minaret





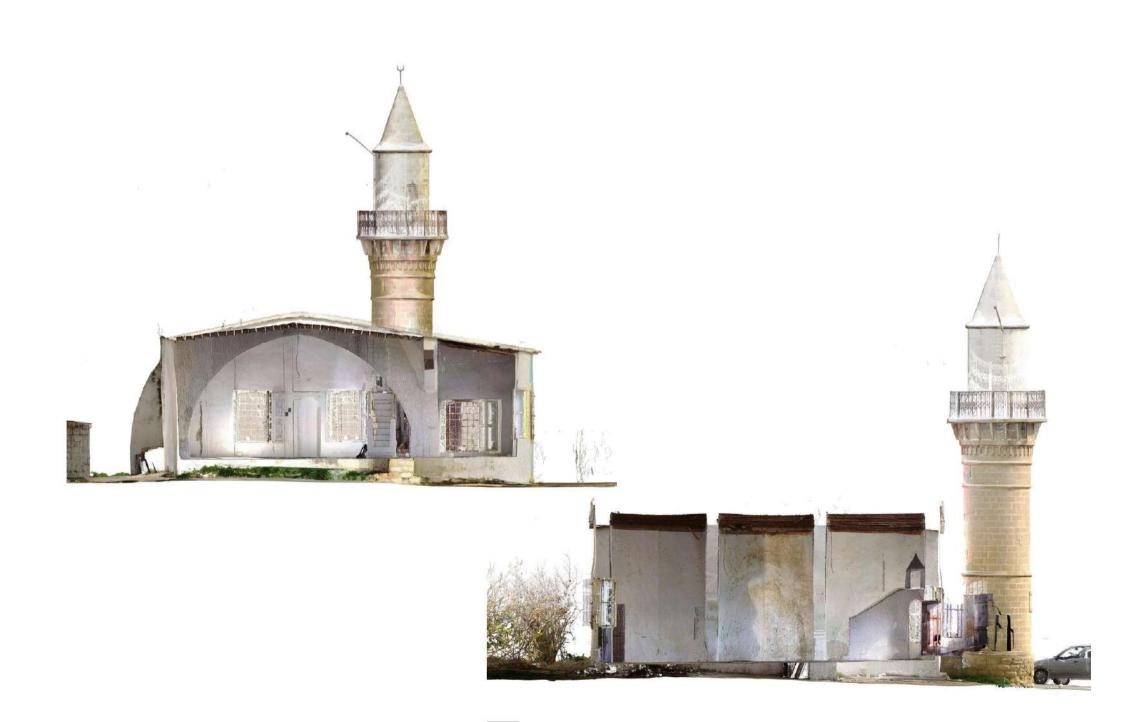
A plague on the minaret shaft, bears the year of 1841 and in unclear Arabic 13?1. It is unclear whether it was placed there from another site. We have to take into account the fact that minarets in Cyprus only came into use in the 19th c or even later. Before call to prayer was done from the roof of the mosque.

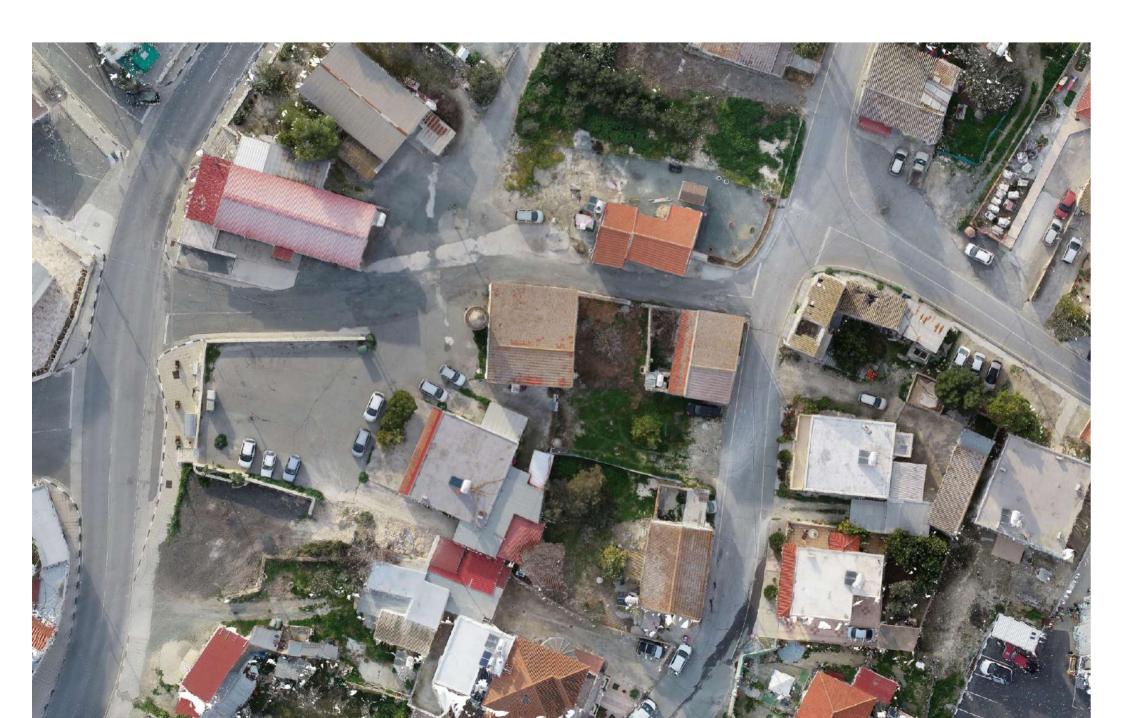
The Balcony "Serefe" was rebuilt from concrete and supported by mosaic cantilevered corbels in November 1953, with donations from Silahtar Huseyin Hamid Aga, possibly after the collapse of the original minaret. Over the door of the balcony is the crescent and star

Tools used for Architectural survey: 3d laser scanning / 3d point cloud model. scale 1:1 - for optimal precision

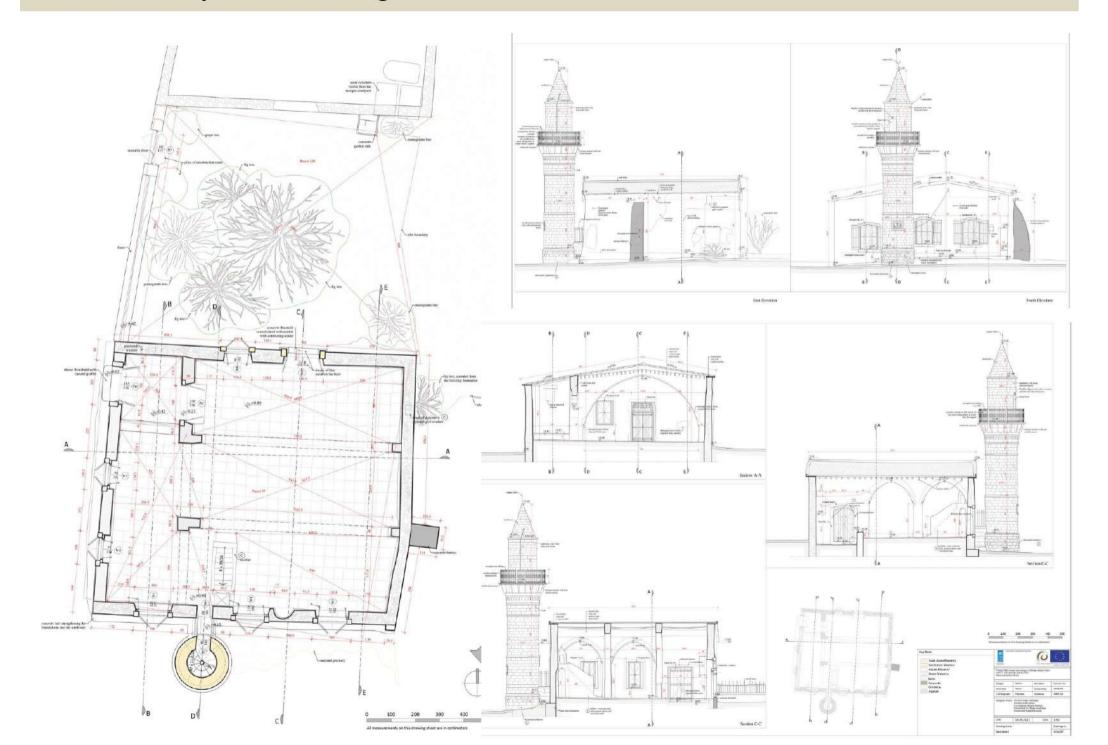


Tools used for Architectural survey: 3d laser scanning / 3d point cloud model. scale 1:1 - for optimal precision

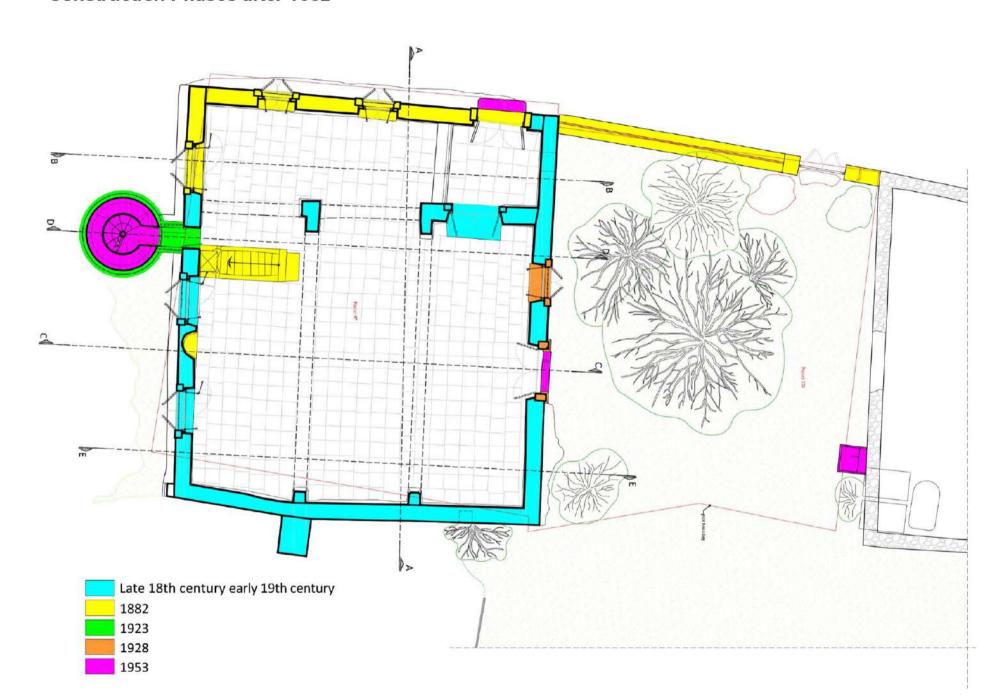




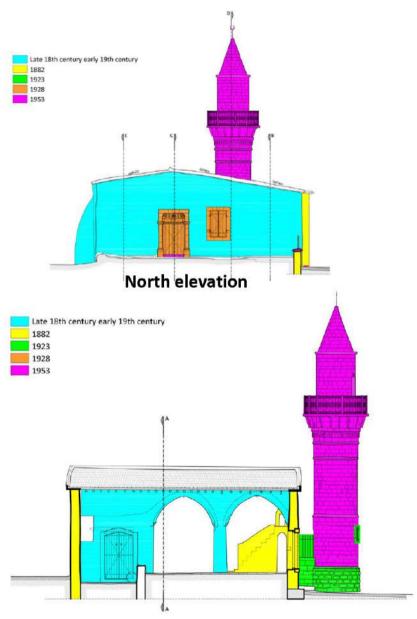
Architectural survey: 12 releve drawings

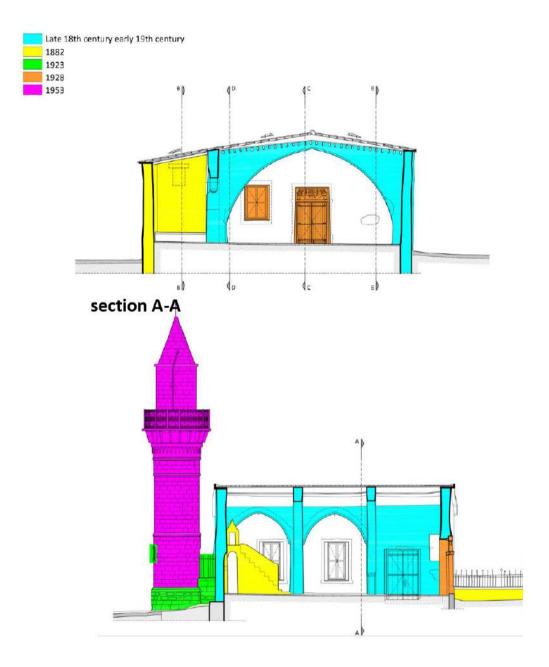


Construction Phases after 1882



Construction Phases after 1882

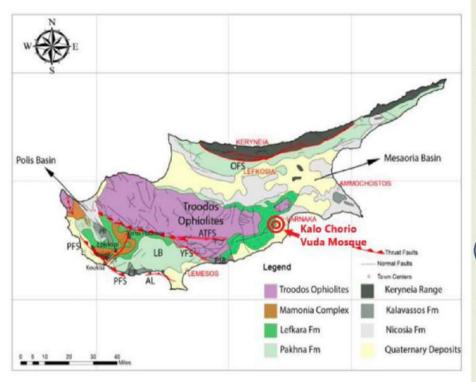




Section B-B

section C-C

Geology, earthquakes and natural disasters



Simplified geology map of Cyprus illustrating the distribution of the basement terranes (After Papadimitriou 2017: p.32, original Kinnard 2008).

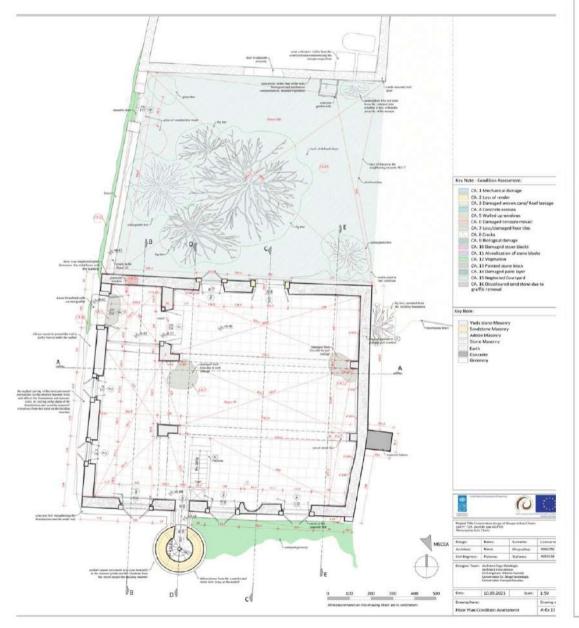
Table of Catastrophic and Damaging Earthquakes on Cyprus 1896-2000 (Figure S6)

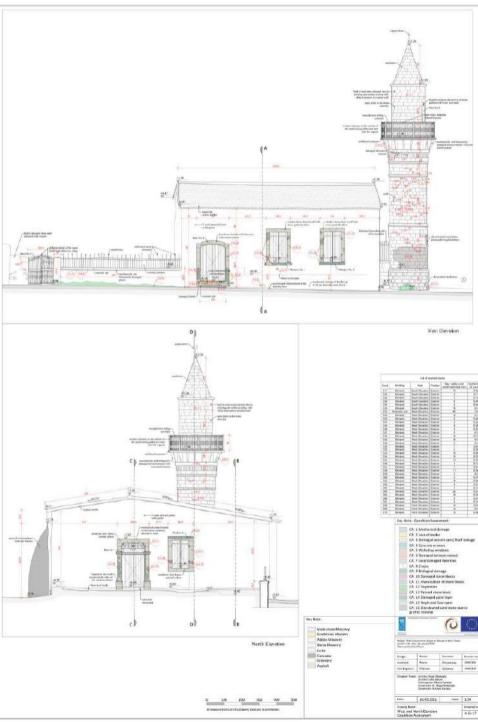
Date	Magnitude Ms	Description of damage
29/6/1896	6.5	Damage in the area of Limassol, especially at Akrotiri and Episkopi. Many aftershocks followed.
5/1/1900	5.7	Small damage in Mesaoria.
23/2/1906	5.3	Small damage in Limassol and Kolossi. Felt all over the island.
18/2/1924	6.0	Small damage in Famagusta.
13/12/1927	5.0	Small damage in Limassol and in villages to the north (Koilani, Pera Pedi, Monagri).
9/5/1930	5.4	Damage in Pafos town and the surrounding area.
26/6/1937	4.7	Damage in southwest Cyprus (Pachna, Omodos, Platres, Salamiou).
20/1/1941	5.9	Severe damage in the district of Famagusta, especially at Paralimni, where 24 people were injured and many houses collapsed. Limited damage in the districts of Nicosia, Larnaca and Kyrenia.
10/9/1953	6.1	Destructive earthquake in the district of Pafos with 63 dead, 200 injured and 4000 homeless. Many houses were destroyed in 158 villages. The main earthquake was followed by many aftershocks, which caused additional damage.
15/1/1961	5.7	Small damage in Larnaca town and the surrounding area.
28/3/1984	4.5	Small damage in the town and district of Larnaca where it was particularly felt.
23/2/1995	5.7	Destructive earthquake in the Pafos district with two dead. Many houses collapsed in the villages of Pano Arodes and Miliou. There was also damage in the villages of Peristerona, Steni, Gialia, Argaka, Pomos, Pyrgos, Lefka, Neo Chorio, Lachi and Polis.
9/10/1996	6.5	Very strong earthquake in the southwest of Cyprus caused panic to the residents of Pafos and Limassol and to the residents of multi-storey buildings in Nicosia, Larnaca and Paralimni. Twenty people were slightly injured and two lost their lives from indirect causes. Limited damage in Pafos and Limassol.
11/8/1999	5.6	Strong earthquake with the epicentre close to Gerasa caused damage to buildings in Limassol and the villages to the north of the town. Felt all over Cyprus. Forty people were slightly injured mainly because of panic. Many aftershocks followed.

The most catastrophic earthquakes were those of 1941, 1953, 1995, 1996, and 1999.

Set of Condition Assessment drawings

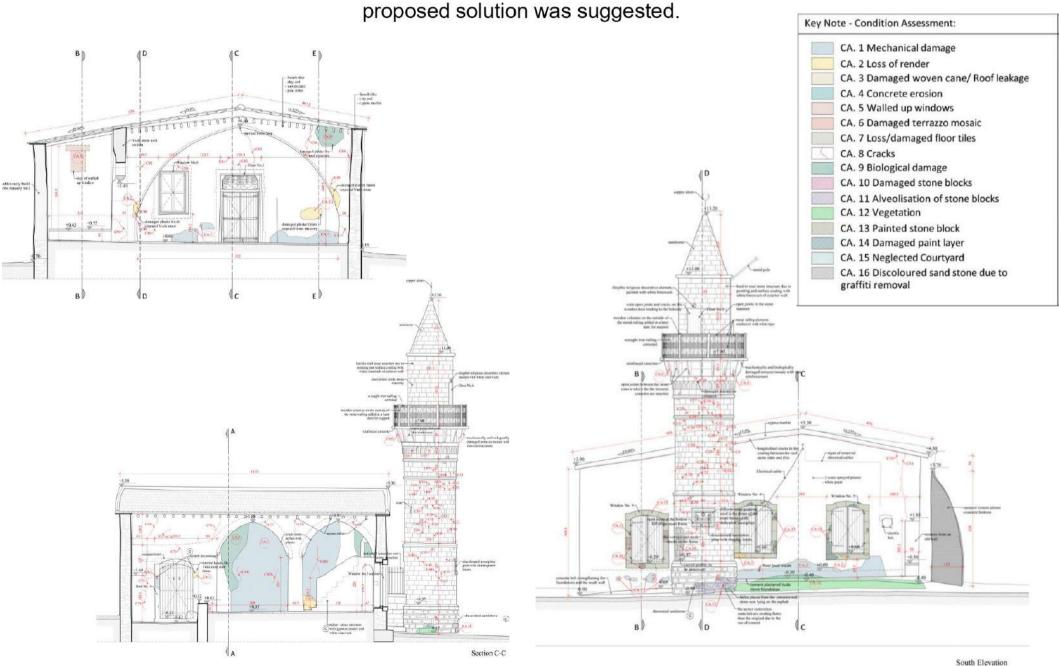
Following the architectural survey, a detailed conditional assessment was carried out to document and assess the pathology of the structure. Both the minaret as well as the mosque itself were investigated in great detail for structural damage.





Condition Assessment

Each item was investigated and documented noting its pathology (cracks, deterioration of materials etc), and once the causes were documented, analysed and comprehended, a first



PHOTOGRAPHIC DOCUMENTATION

DAMAGE | PROPOSED INTERVENTION

MINARET







PH. 2

PH. 1



PH. 3



PH. 5



PH. 4

- GENERAL | Laboratory testing must be carried out to specify material characteristics.
- PH. 1 & 5 Damaged concrete elements & Rusted steel elements | Deteriorated concrete must be fully removed until health surface is reached. Corroded reinforcement, if any, must be thoroughly cleaned and / or replaced where extensive damage or loss of section is observed. Protection paint should then be applied and final coating with high strength repairing mortar. Repairing of brackets supporting the platform. Existing rail to be thoroughly cleaned from rust, repaired where necessary and application of anticorrosion epoxy paint system for protection.
- PH. 2 Rusted Lintel | Existing lintel steel elements to be thoroughly cleaned from rust. If remaining section is structurally sufficient, application of anti-corrosion epoxy paint system for protection should be carried out. If loss of section is observed, replacement should be done carefully and following specific and approved methodology.
- PH. 3 & 4 Cracks on masonry wall / Deformed staircase stone axis | Structural tying of the minaret in specific levels to form a monolithical shaft section. All major cracks to be sealed with lime-based mortar injections.

PHOTOGRAPHIC DOCUMENTATION

DAMAGE | PROPOSED INTERVENTION

MINARET



PH. 10



PH. 11

- PH. 6, 7 & 9 Deteriorated stone elements, missing stones and older cement interventions in the base | Removal of all cement repairs, replacement of stone elements where loss of section is significant, deep pointing & jointing of the entire base, structural tying / capping of the base either by tie rods or stitching techniques.
- PH. 8 Cracked lintel on both ends | Existing lintel steel elements to be thoroughly cleaned from rust and protected with anti-corrosion epoxy paint system.
 Further strengthening of the opening by installing glass fiber tubes or s/s bars anchored in a crossing form with the use of epoxy resin.

 PH. 10 & 11 – Weak damaged plaster & missing wall parts | Cement repairs to be removed, weak plasters to be removed as well, stone members to be repaired or replaced depending on damage extend, cracks treated accordingly, deep pointing and jointing to be carried out, lime plaster to be applied where necessary.

PHOTOGRAPHIC DOCUMENTATION

DAMAGE | PROPOSED INTERVENTION

EXTERIOR







PH. 13





PH. 14

PH. 16

PH. 12

PH. 15





- PH. 12 Swollen plaster especially near the base |
 External apron slab with small outward inclination
 must be constructed to divert water away from the
 structure.
- PH. 13 External damaged plaster | To be removed, wall to be left to dry, cracks – if any - treated accordingly, new lime based protective plaster to be installed. Deep pointing and jointing to fix window sill.
- PH. 14 Cracks on pier element & vegetation growth |
 Repairing of stone with appropriate NHL mortar, deep
 pointing & jointing of the wall / pier. Treatment of the
 surfaces where organic growth is present by using
 appropriate biocide / herbicide.
- PH. 15 & 16 Damaged external wall & rusted steel elements | Damaged parts of the external wall needs to be fully and carefully demolished and rebuilt, where no capping is present, one should be constructed, existing steel elements to be thoroughly cleaned from rust, repaired where necessary and application of anticorrosion epoxy paint system for protection.
- PH. 17 Further investigation of the ground condition needs to be considered and conducted prior to any intervention proposal. A number of investigation digs / boreholes is needed to specified locations to assess foundation condition.

PHOTOGRAPHIC DOCUMENTATION

DAMAGE | PROPOSED INTERVENTION

PH. 18 - SE corner wall deformation | Wall

EXTERIOR





PH. 18



PH. 19













PH. 23

Structural tying of the wall with the use of tie rods. Tip Id98 Sold Sheet Calverged Riv

deformation shows shifting of the corner towards east.

- PH. 19 Strengthening of the buttress section near the base or full reconstruction, water drainage system (gutters / downpipes) on the roof to avoid water flow on the wall.
- PH. 20 & 21 Cracked floor slabs | Floor to be repaired. Floor slabs to be removed, slab on grade and tie beams to be constructed, floor slabs to be put back in place, replacement of those who are cracked and damaged. Joint sealing.
- PH. 22 Deformed roof joists | All roof joists must be removed and replaced. Wooden tie beams must be introduced at the top of both supporting walls.
- PH. 23 Heavily moistened east wall | Damaged wall plaster to be replaced, proper water drainage system (gutters / downpipes) on the roof to avoid water flow on the wall and water penetrating inside.

PH. 22

PHOTOGRAPHIC DOCUMENTATION

DAMAGE | PROPOSED INTERVENTION

INTERIOR







Ph. 25

PH. 24





PH. 27







- PH. 24 Weak swollen plaster | Plasters to be removed, inspection of wall and cracks treated accordingly, deep pointing and jointing to be carried out, lime based plaster to be applied where necessary.
- PH. 25 Detached plaster and damaged masonry |
 Damaged adobe wall to be replaced or strengthened
 with the use of wooden wedges and planks, plaster
 replacement.
- PH. 26 Wall structure disorganized and absence of homogeneity | Plaster to be fully removed, wall to be cleaned thoroughly and deep pointing and jointing to be carried out in order to form a bonded wall section. Stitching to be performed at all corners and Tjunctions.
- PH. 27 Existing wooden lintel | Wooden beams in a fairly good condition. Wooden sections to be treated and protected properly with suitable protective paint.
- PH. 28 & 29 Stone arch cracked edge | Strengthening and restoring measures to be applied. Replacement of stone elements where loss of section or structural defficiency is significant, structural tying of the stone arched frame either by tie rods or stitching techniques. Finally, deep pointing and jointing.

PH. 28

PH. 29

PHOTOGRAPHIC DOCUMENTATION

DAMAGE | PROPOSED INTERVENTION

ROOF







 PH. 30 & 31 – Broken roof tiles & edge slabs | All roof tiles to be removed, timber joists to be replaced and roof structure to be re-constructed with appropriate inclination and water drainage system.

PH. 30

PH. 32

PH. 31

GARDEN



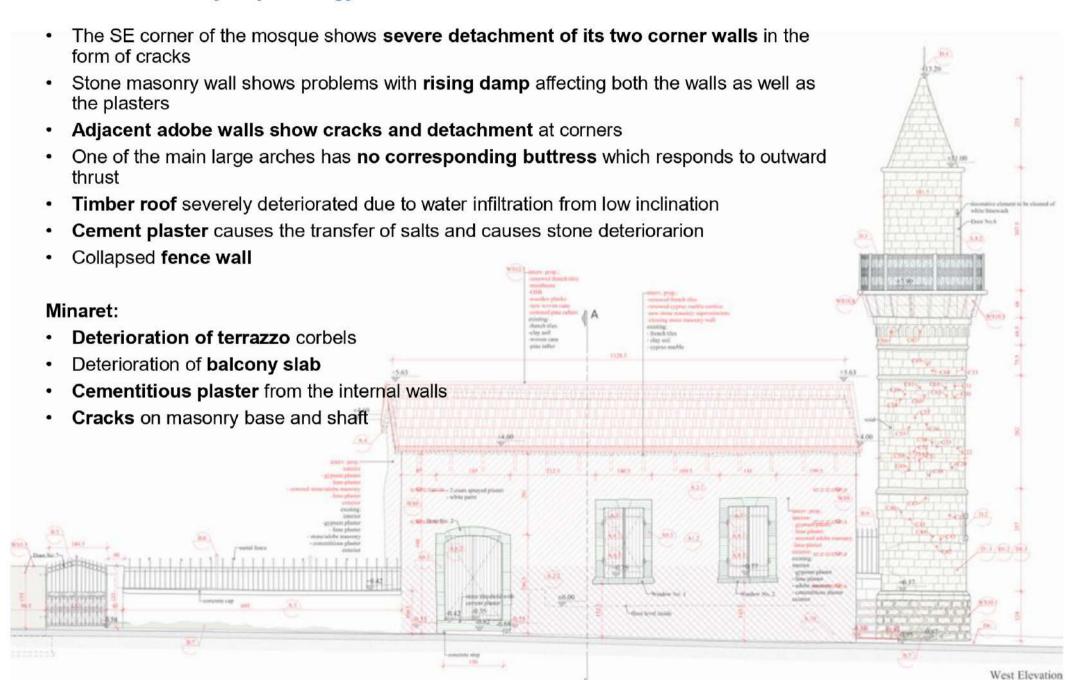




PH. 33

 PH. 32 & 33 – Garden wall with long cracks, demolished parts and absence of capping | Crack sealing with high-density mortar injections, deep pointing and jointing of the entire wall, construction of a continuous, RC capping at the top of the wall. Where wall parts are missing, wall filling in with similar stones must be done.

General Summary of pathology of the structure:



Proposed Conservation works:

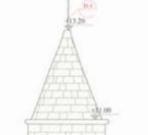
- Section 1 Foundation strengthening
- ❖ Section 2 Walls
- ❖ Section 3 Roof
- Section 4 Openings
- Section 5 Minaret
- Section 6- Outdoor area works

General Summary of Proposed Conservation Works:

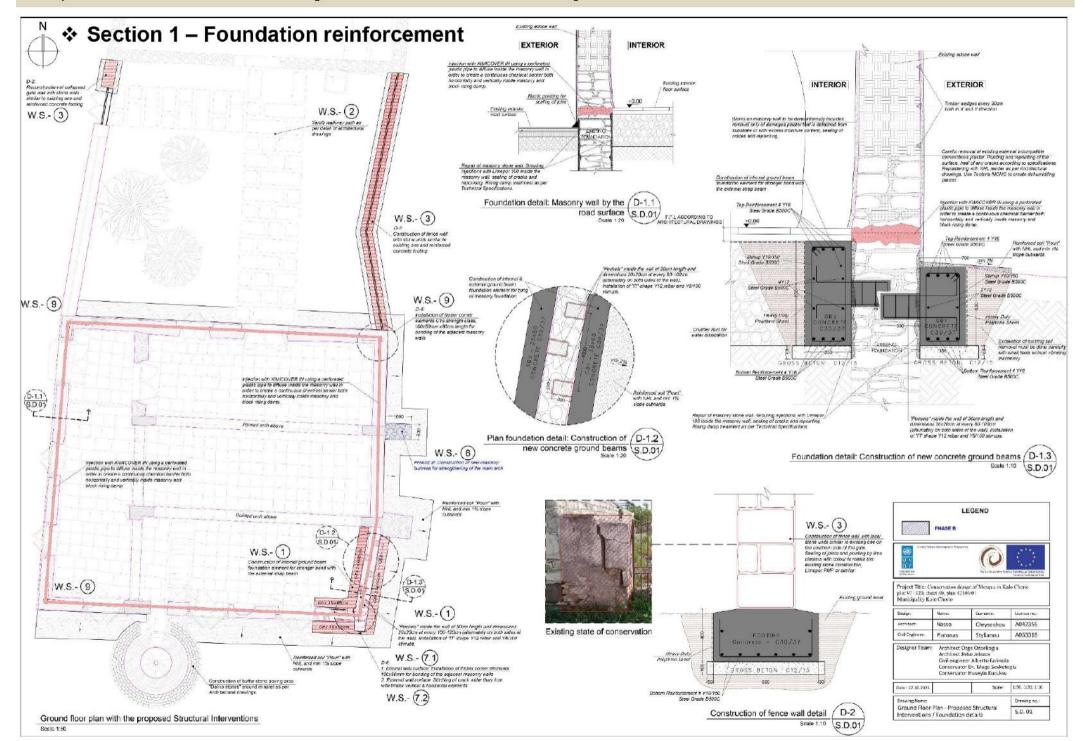
- Construction of external and internal strap beam foundation with "pockets" inside the wall for connecting the SE corner
- Strengthening with grouting injections the stone masonry wall and creation of a continuous chemical barrier for rising damp treatment
- Crack stitching, stone and adobe replacement and installation of timber corner elements for tying the adjacent adobe walls
- Installation of steel tie-rod system for reinforcing the arches
- · Construction of new masonry buttress for strengthening the main arch
- Reconstruction of timber roof with peripheral timber tie-beam and reuse of healthy material
- Removal of existing external incompatible cement plaster and swollen internal plasters
- Reconstruction of collapsed fence wall and construction of pouri pathway and new ablution area and sink

Minaret:

- Replacement of terrazzo mosaic corbels
- Repair of balcony slab
- Conservation of "alem"
- Removal of cementitious plaster from the internal walls
- Homogenization of masonry base with grouting injections, deep pointing and jointing



Proposed Conservation works [Foundation Reinforcement]

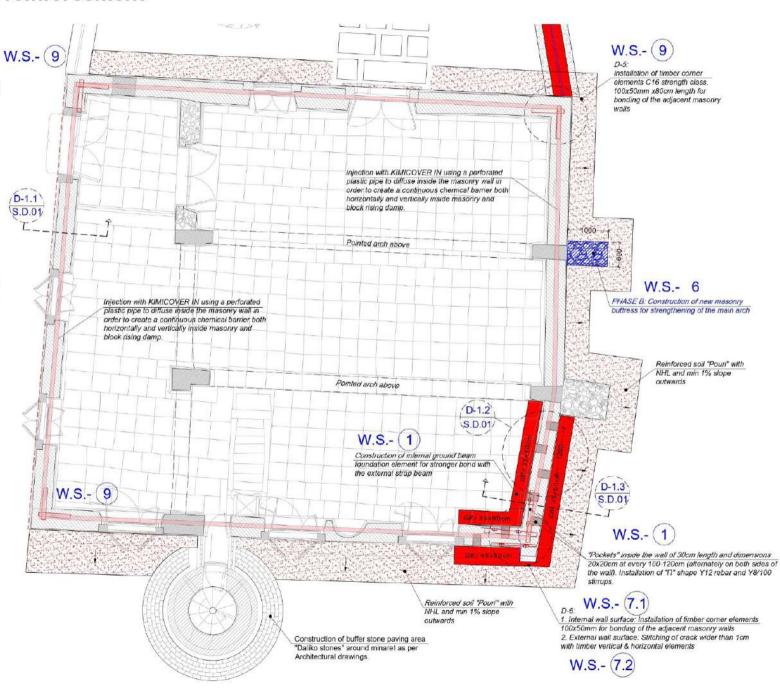


Proposed Conservation works [Foundation Reinforcement]

Section 1 – Foundation reinforcement

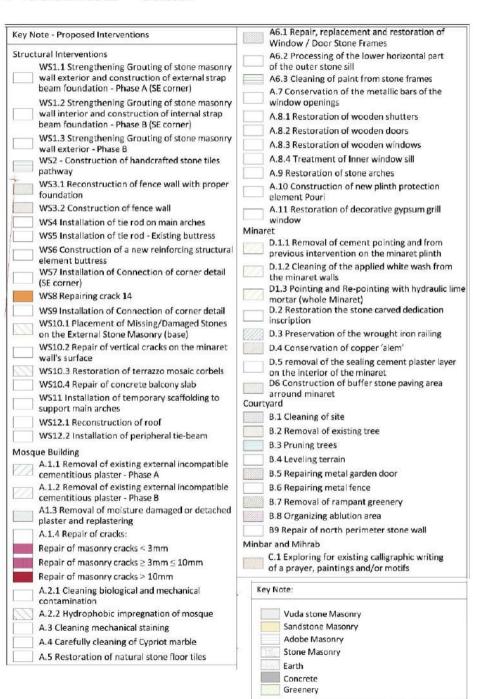
→ Construction of external and internal strap beam foundation with "pockets" inside the wall for connecting the SE corner

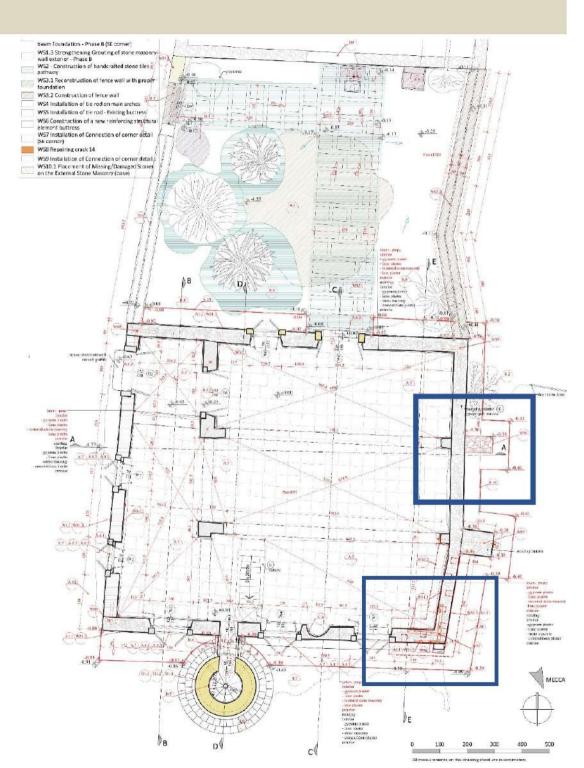
→ Strengthening of the stone masonry wall with grouting injections and creation of a continuous chemical barrier for rising damp treatment



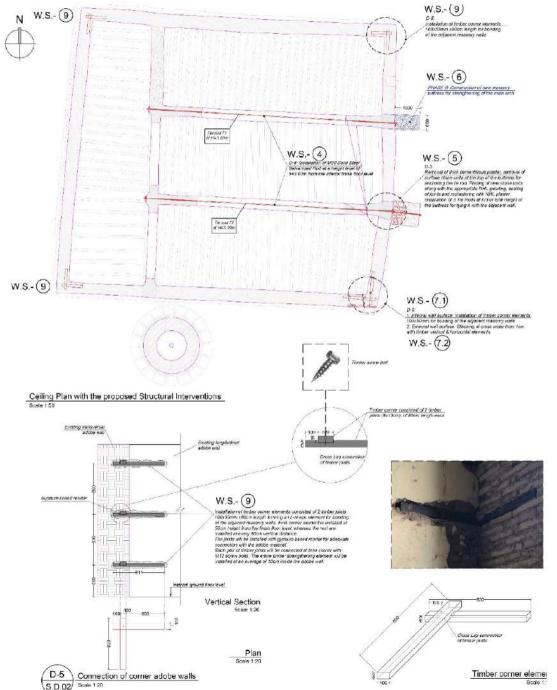
Proposed Conservation works [Walls]

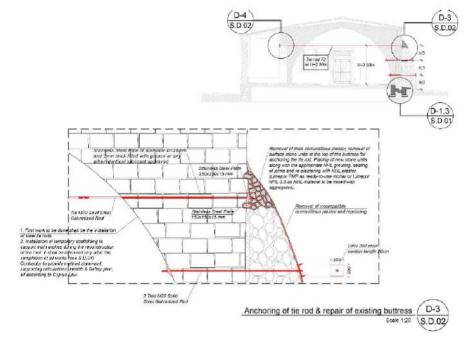
Section 2 – Walls



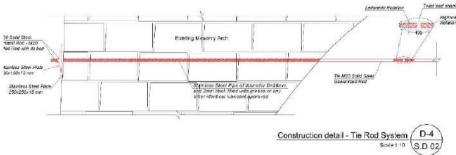


Section 2 – Walls – Reinforcement of Arches with Tie Rods and tying of Wall Corners





→ Installation of steel tie-rod system for reinforcing the arches

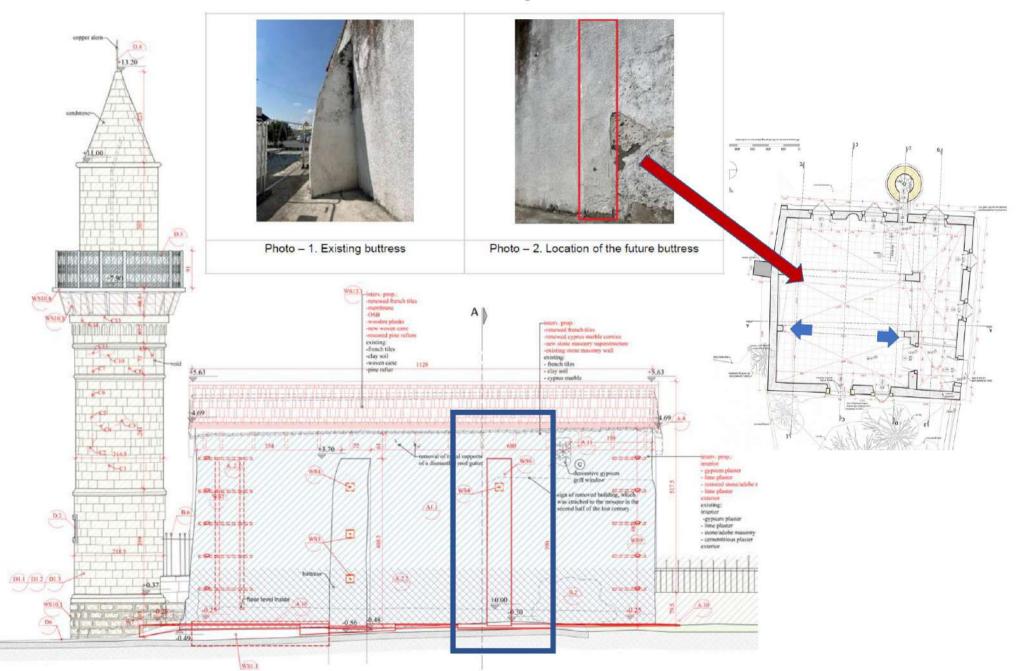


→ Crack stitching, stone and adobe replacement and installation of timber corner elements for tying the adjacent adobe walls

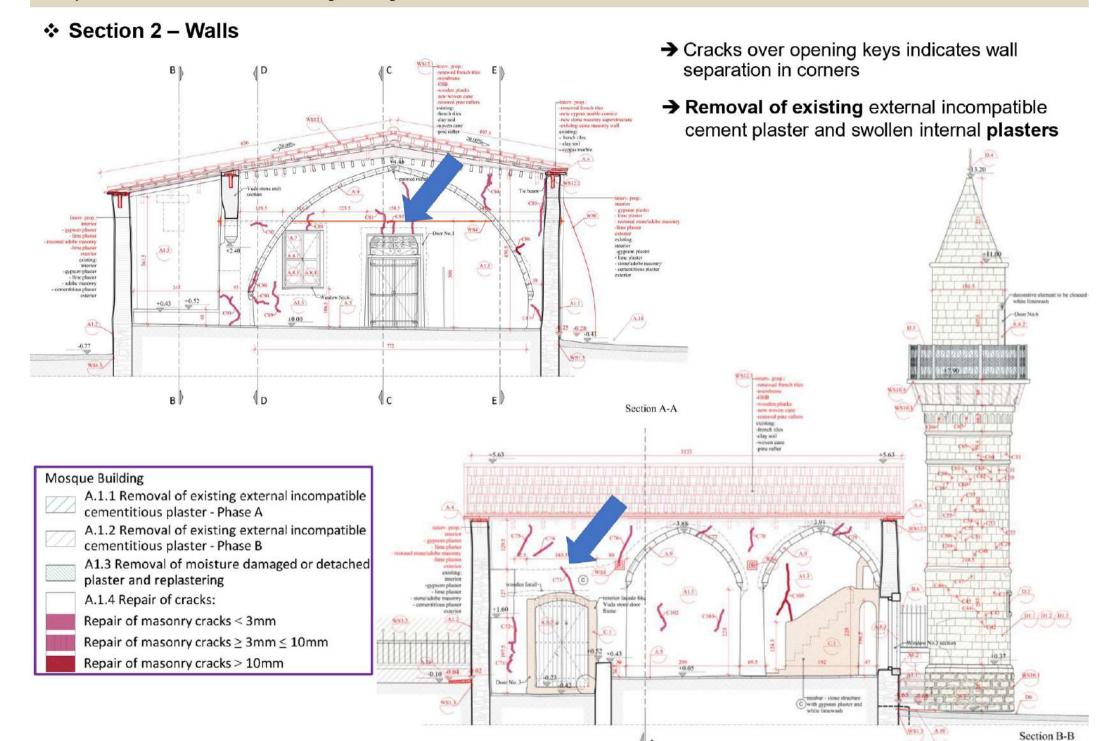
Proposed Conservation works [Walls]

❖ Section 2 – Walls

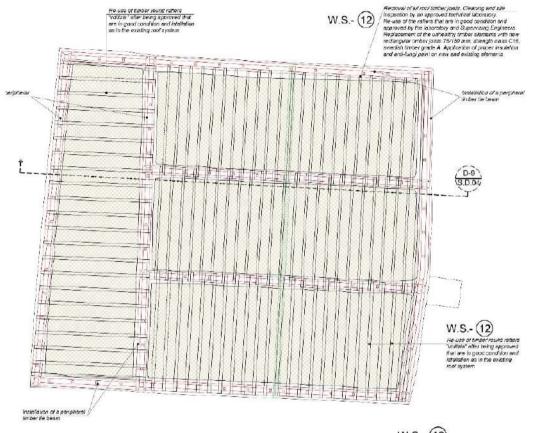
→ Construction of **new buttress** to counteract the lateral forces of the main arch along with the installation of steel tie rods

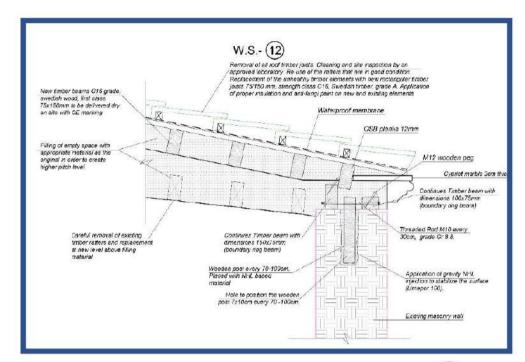


Proposed Conservation works [Walls]



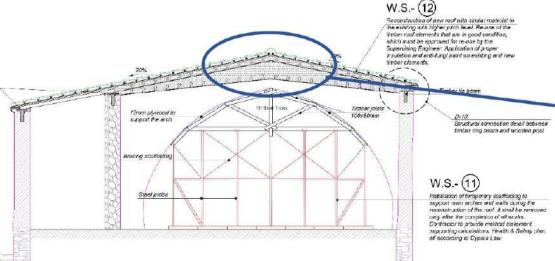
Section 3 – Roof reconstruction with perimeter beam – reuse of healthy rafters





Structural connection detail between timber ring beam and timber post (section)

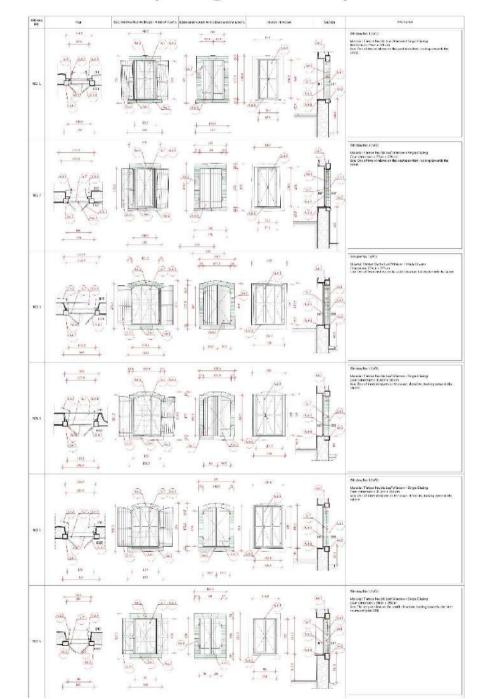


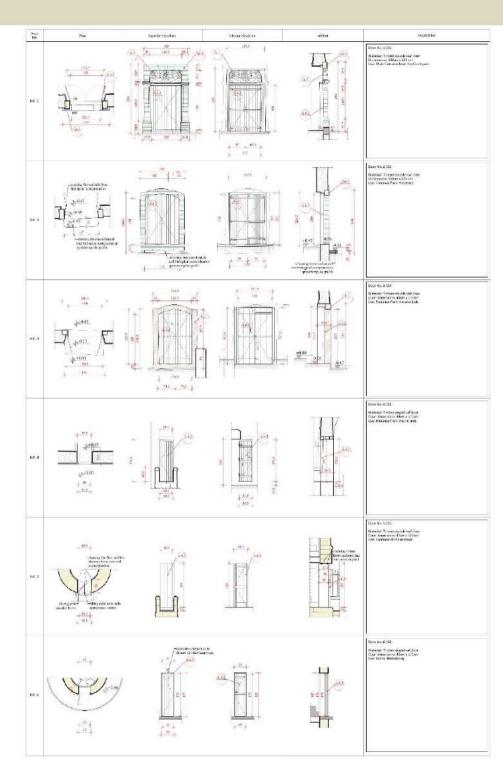




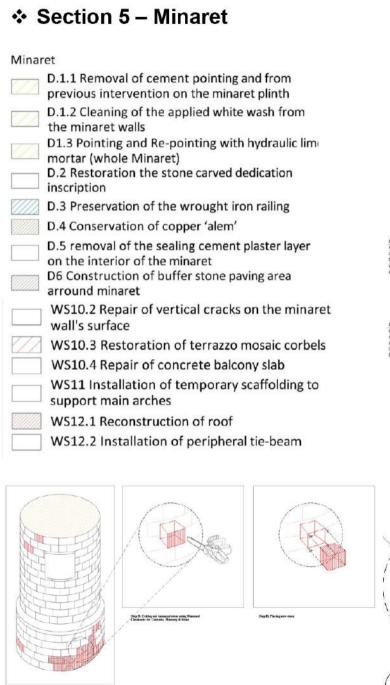
Proposed Conservation works [Openings]

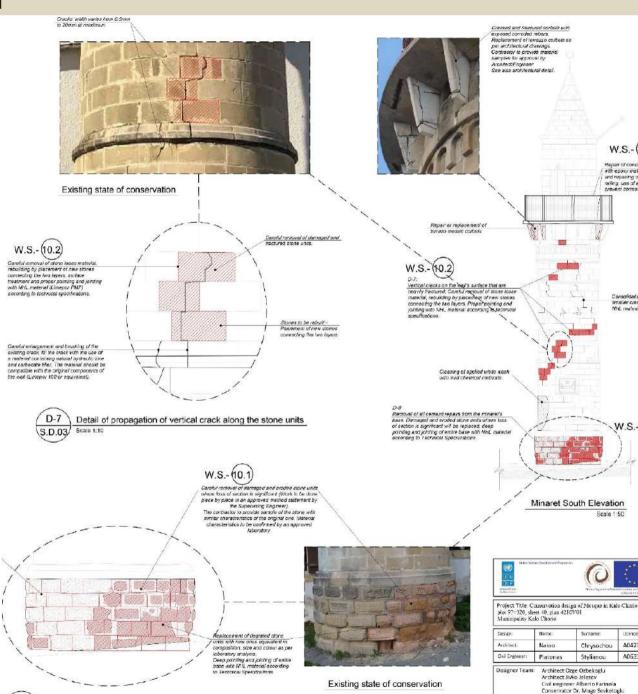
Section 4 – Openings – minor repairs





Proposed Conservation works [Minaret]





Detail of deteriorated minaret's base

Scale 1:20

with anony material and cleaning

and recaining of wrought iron tailing, use of entireust vernich to crevent corrosion.

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Conservator Huseyin Kucuksu

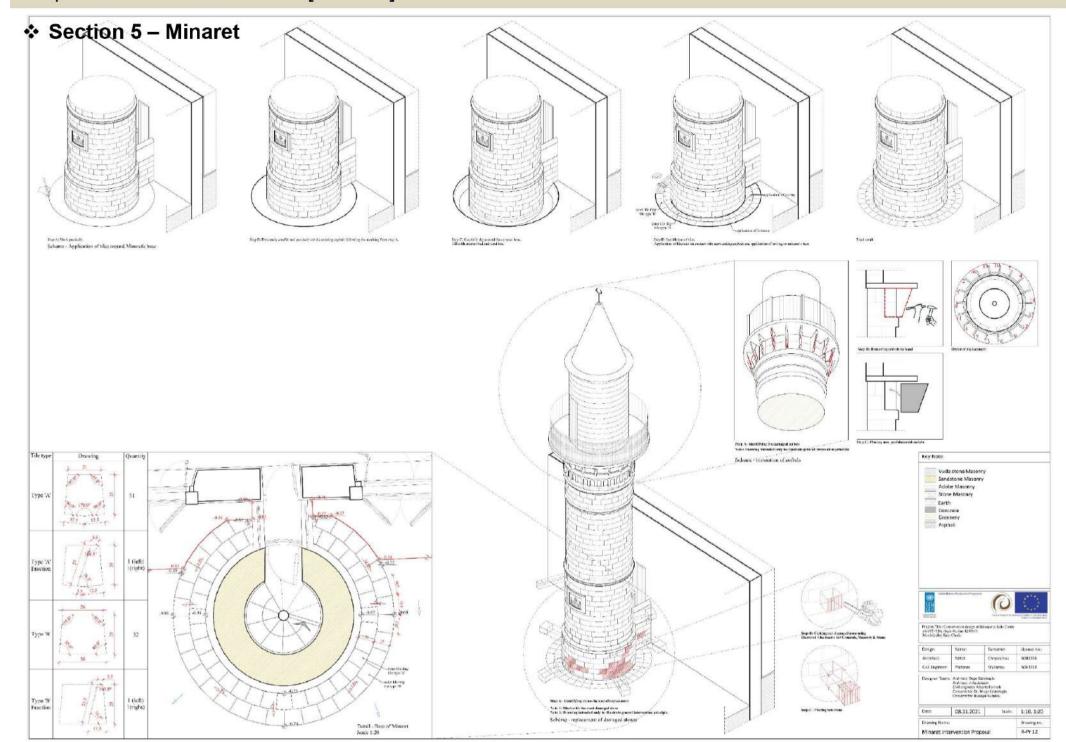
Date: 68.07.2021

Crawing Name

Proposed Structural Interventions

Masonry walls and Minaret

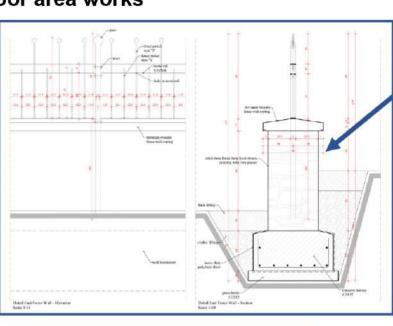
Proposed Conservation works [Minaret]

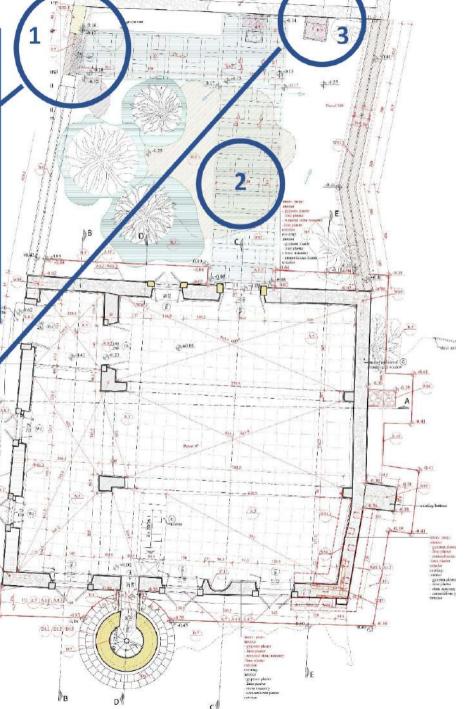


Proposed Conservation works [Outdoor area works]

Section 6 – Outdoor area works







- Reconstruction of collapsed fence wall
- Construction of pouri pathway reinforced with NHL
- 3. Construction of new ablution area and sink

- → Removal of internal plasters had led to the discovery of **past hidden arches** inside the masonry wall's surface as well as **past window openings** that were all later filled!
- → The new findings were recorded and documented by the Architects and Conservators of the design team.
- → The final decision made between the AB, UNDP and the Designer's team was to indicate the past openings and arches with a small recess from the plaster, in order to keep the historical memory alive.



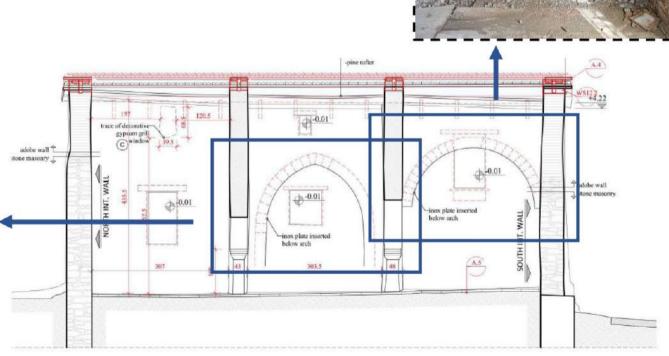


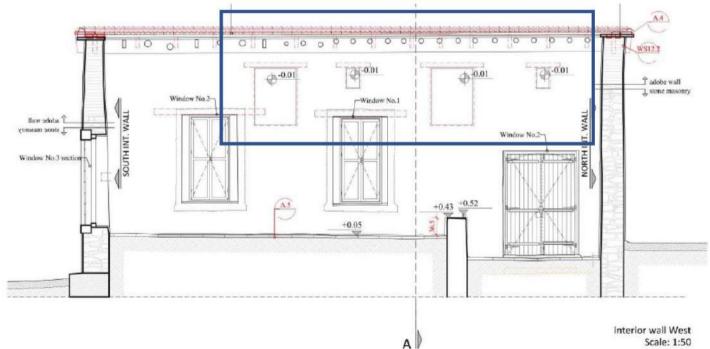


Photo – 2: Founding of larger window that will be strengthened with two (2) timber ties.



Photo – 3: Founding of small window that will be strengthened with one (1) timber tie.

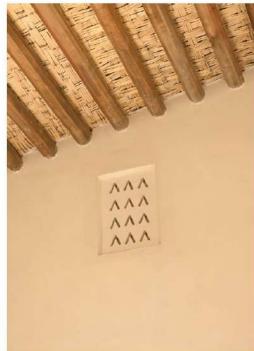




Kalo Chorio/Vuda, Larnaca District

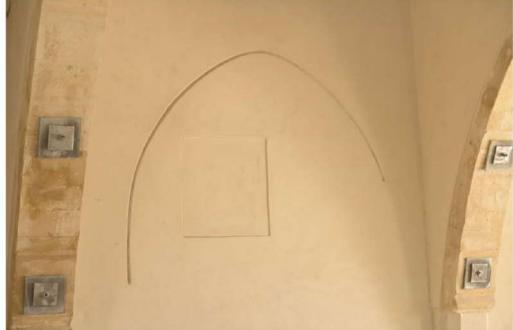
Executed Conservation works - Past hidden arches and openings, indicated with a small recess











- → South-East corner stitching detail was revised after the discovery of stone wall at the bottom and adobe wall on the top half.
- → The lower stone part was reinforced with galvanized steel threaded tie rods installed every 35mm vertically apart with special NHL grouting material.
- → The upper adobe corner was tied with timber corner elements as per the initial design approach.





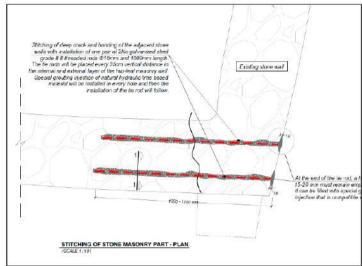


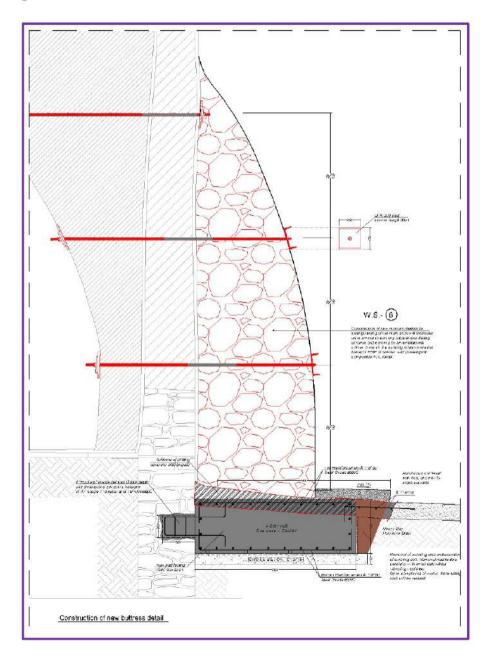


Photo – 8: Existing S-E corner wall typology – bottom half part made of stone masonry, upper half part made of adobe masonry

→ External corner RC strap beam detail

- ❖ Section 2 Walls
- → Construction of **new buttress** to counteract the lateral forces of the main arch along with the installation of steel tie rods





- → Advice on which parts of adobe masonry walls should be removed and reconstructed due to their heavy deteriorated state.
- → The majority of the adobe bricks were found heavily damaged and deteriorated, possibly by the trapped moisture inside the surface of the wall due to the incompatible cementitious "sprits" plaster and/or leaks from the roof.







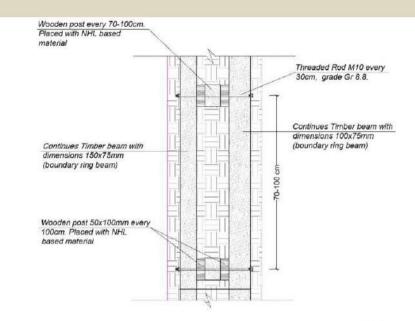




Executed Conservation works - Roof reconstruction

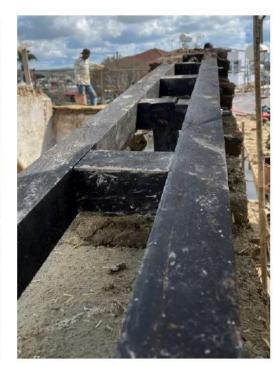






Structural connection detail between timber ring beam and timber post (plan) Scale 1:10 S.D.04/







Executed Conservation works - Minaret













Consultants' technical advice during supervision – Example Report

Conservation works of Mosque in Kalo Chono (Vouca), Larraca District UNDP CVP RFQ 210 2022

Convervation works of Mosque in Kalo Chorio Woudal, Larnaca District UNDF OUTPUT 3: CONSULTANTS TECHNICAL ADVICE

Participants from UNDP

Mrs. Katerina Tomariti - Project Engineer

Participants from the Contractor's company: C. Soushas Trading & Development Ltd.

Participants from Designers Team: Engineers: Mr. Platonas Stylianou, Mrs. Maria Kyriako.



The meeting / discussion with UNDP was hold during a site visit at Kalo Chorio/Vuda Mosque on the

UNDP, the Designers team and the Contractor's team met and discussed the following issues:

A. Issue regarding the replacement of existing lintels

culestone were relead concerning the decrease of timber littles and air stone inters shows the openings and their possible need for replacement. The discussion examined whether all Intels must be removed and replaced with new ones or only some or them.

- . The Deschere coulded that all lines must be inspected, checking their ends for roll and E found unhealthy and rotten they will be replaced with new rectangular timber joists 10:15cm. Swedish timber grade A, to cover the well's width.
- Relevant scope of work is described in the technical specifications A5.1 "provide and install. new wooden lintel if necessary" and A8.3 "careful removal for restoration of wooden windows lieptocement of rotten elements.".

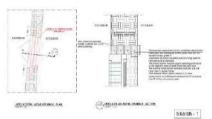
Conservation works at Mosque in Kalo Chono (Vouda), Lamaca District LINDP CVP REQ 210 2023

- The timber limber most be placed standing and extend to the adjacent walls at least 60cm per each side. It was stated that it is important that the existing lintels are removed gradually and not more than 2 per cach time as par detail attached.
- Application of proper insulation and anti-fungi, anti-termite paint must be done to all new and
- axisting timber elements.
 A resovant decar will be sent the following day (Sketch F).





Doots - 1: Evision timber letter level popular engineer



Conservation works of Mosque in Kalo Chorio (Vouda), Lamaca District UNDP CYP REQ 210 2022

D. Issue recarding the plaster removal of an additional window finding on the East wall

The Designers mentioned that the existence of a new window located on the left side of the East wall which was documented on the Site Report no 3 - part 2.1 must be also examined following the removal of the plaster, counter to the Contractor's suggestion to be kept (see relevant photo -6). The works to be done are as described for the either now window findings (see Site Report no.3).



E. Issue regarding the temporary scaffolding detail of the two main pillars that was

- . The proposed scaffolding/temporary support detail of the main pillars was sent to UNDP by the Dasigners on the 06/11/22 together with their recommendations.
- . The detail was discussed on site and was agreed also by the Contractor. All questions have
- The reacons for those additional scaffoldings were thoroughly provided in Site Report no.3 part 1.1 in which it was specified that the found small, damaged stones at bottom of the pillars will be replaced with stone units similar to the arch's in order to restore their continuity.





Photo - 7: Temporary support detail of the two main pillars

Conservation works of Mosqua in Kalo Chorio (Vouda), Larnaca District UNDP CYP RFQ 210 2022

Issue regarding the progress of the Minaret's restoration

The Contractor mentioned that they will commence with the restoration of the base of the minaret following the technical specifications and the drawings.

First work to be done is the careful removal of the damaged and eroded stone units and their replacement with new ones, equivalent in composition, size and colour as per laboratory analysis.

G. Issue regarding the South East corner stitching detail

Questions were raised concerning the South-East corner stricking detail which must be revised after the discovery of the new hidden such. After the removal of the interior plasters and some of the exterior the pier of the arch was found to made of stone units, contrary to the adobe wall that was given in the

Advice given

- . The Designer advised that the cradit attaching detail as per W87.2 is not appropriate for the bottom part of the wall that is made of stone masonry, but only for the upper half which is
- it was stated that a new dotall will be sent the following day (Sketch 2)
- The Designers clarified that the upper half part will be repaired as per W0-7.1 and W0-7.2
 according to the detail of the installation of timber sorner elements internally for bonding of the adjacent walls and the stitching of the deep crack externally with timber vertical and horizontal
- Additionally, for the lower stone masonry wall, galvanized steel threaded (ie lock of Φ16 mm) will be installed every 35 cm vertically with special grouting injection of NHL material, as po-delay attached (Seeich – 2).





Photo - 8: Existing S-E corner wall typology - bottom half part made of stone masonry, upper half part

Conservation works of Meague in Kalo Choria (Vouda), Lamesa District LINDP CYP RFQ 210 2023 Report Number: 94

B. Issue regarding the discovery of several new openings

Eclowing the removal of plasters in the interior of the mosque, several openings were revealed which were rater filled with pages briefs, irregular stone units or gypsum material. The new openings have been recorded and documented in drawing format in the Site Report no 3 sent on the 25/10/22.

Duestions were raised concerning the structural strengthening of the openings within the adobte wall. The Combactor suggested to install further be bearns in each overrise to contract the adobte wall. As per the contractor's suggested, one binder the element and the installed in the critical windows and two timber elements will be place in the larger windows.

- The Designers agreed with the Contractor's recommendation and approved the methodology
- If was stated that all existing linters will be respected and if found unbealthy and rotten they will he replaced with new rectangular timber joists of Gwedish timber grade A. Installation methodology of limets replacement to be followed as per issue A - advice given and relevant Skelch - 1. The new rectangular limber joists of the lintels will be 10x10 cm covering the width
- of the wall.

 The detail for the linial's replacement will be similar to Skelch 1 but with timber losts of 10x10.
- . After the installation of timber lies the windows will remain filled and will be replactored with a recess from the walfs surface as per Site Report no.3 - part 2.1, with the exception of the decorative experim and windows that will be rectored and preserved weble.





Photo - 2 Founding of larger window that will be promphoned with two (2) timber ties.

Photo - 3: Founding of small window that will

C. Issue reparting the corner tying of transverse walls

 Coestions were raised concerning the proposed stone stitching detail for crack repairs which was suggested by the Contractor and sont to the Designers for their recommendations on the 03/11/2022. The stone stitchine data/ indicated installation of limpose planes planes attempted on both sides of the walls at 50-100 cm vertical distance, at the connection between the main arches and the perpendicular masonry wall and pillars. Conservation works of Mosque in Kalo Chono (Vouda), Larriaca District UNDF CYP RPQ 210 2022

- This issue was arread that is not suitable for this ture of masonry walls since by the removal. of plaster at the corner it appears to be adobe masonry.
- . If was clarified that three (3) pairs of timber corner elements will be installed as per WS.0 in BoO and the Technical Specifications (see relevant photo 4)





Photo - 4. Sticking of crasks found it the corner connection of the mesonry walls by means of 3 para of timber server elements as per WS.5

2. Questions were raised concarring the application of the limber corner its beart elements as per Work Specification WB 9 and BoQ - tem WB3.

- . If was stated that after the removal of internal plasters and the reveal of the masonry type, this cetal is found to be appropriate also for the stone masonry waits. This is due to the motion masonry consisted of relatively small stone units therefore, the timber joints will be easily insighed and provide the necessary bonding while restoring the walks continuely.
- The Designers clarified that the friorth-East corner will be ted with installation of a total of four (1) point of timber corner elements as per drawings and specifications (see relevant photo E).



Conservation works of Mosque in Kalo Chorio (Vouda), Lamaca District UNDP CYP RFG 216 2622





Sheten ... 3: Stiteting detail of stone measury por

Conservation works of Mesque in Kaje Chorio (Vouda), Lamaca District UNDP CYP RFQ 210 2022 Report Number: 04 Reporting Date: 68:11, 2022

Photographic Materia





Photo 9 - External north cide of the magazup.

Photo TC - View of the temporary ocaffeldings for commencement of works at the minaret.





Photo 11 - View of the small anches and the pillar that will be supported.

Photo 12 - View of the already installed timber comente pearws.

Photographic Documentation (Before and After)









Photographic Documentation (Before and After)









Completion Event – 08.09.2023













