

New Hardstone Quarry at Ta' Klement, I/o Qala, Gozo

Environmental Planning Statement

August 1998



Lino Bianco
B.A.(Phil.), B.E.&A.(Hons)(Malta), M.Sc.(Geol.) (Leics.),
M.Sc. (Arch.) (Lond.), A.&C.E.

99, Vincenzo Bugeja Str.,
Hamrun, HMR 10, Malta
Tel. No.: (356) 24 17 47, Mob.: 0942 2727
Fax No.: (356) 25 13 02

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Lino Bianco

B.A. (Phil.), B.E.&A. (Hons), M.Sc.(Geol.)
(Leics), M.Sc. (Arch.) (Lond.), A.&C.E.

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B.A. (Phil.), B.E.&A. (Hons), M.Sc.(Geol.)
(Leics), M.Sc. (Arch.) (Lond.), A.&C.E.

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B.A. (Phil.), B.E.&A. (Hons), M.Sc.(Geol.)
(Leics), M.Sc. (Arch.) (Lond.), A.&C.E.

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Lino Bianco

B.A. (Phil.), B.E.&A. (Hons), M.Sc.(Geol.)
(Leics), M.Sc. (Arch.) (Lond.), A.&C.E.

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Dennis Theuma
B.A. (Hons)

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Joanne Muscat
B.Sc., M.Sc.(Agric.Sc.)

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Sandro Lanfranco
B.Ed.(Hons.), M.Sc.

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Joanne Muscat
B.Sc., M.Sc.(Agric.Sc.)

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Ian Mifsud
B.Pharm. (Hons.), M.Sc. (EAEME)

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Lino Bianco

B.A. (Phil.), B.E.&A. (Hons), M.Sc.(Geol.)
(Leics), M.Sc. (Arch.) (Lond.), A.&C.E.

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Chares Galea Bonavia
B.Ch.D.

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B.A. (Phil.), B.E.&A. (Hons), M.Sc.(Geol.)
(Leics), M.Sc. (Arch.) (Lond.), A.&C.E.

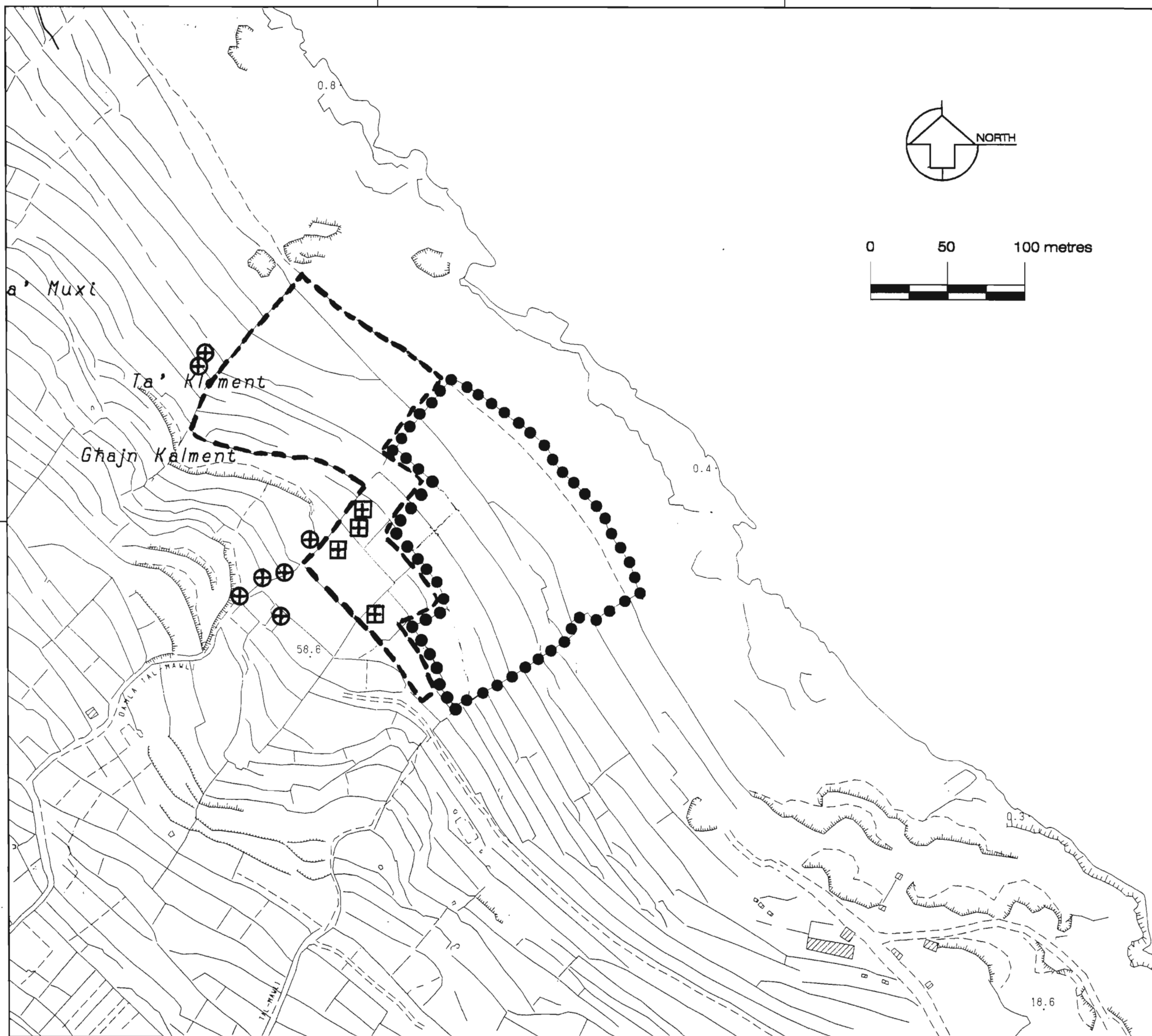
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Lino Bianco

B.A. (Phil.), B.E.&A. (Hons), M.Sc.(Geol.)
(Leics), M.Sc. (Arch.) (Lond.), A.&C.E.

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LEGEND :

-  QUARRY COVERED BY PERMIT PA7412/97
-  WALL, FIELD BOUNDARIES
-  STEEP SLOPES
-  SPOT HEIGHT
-  PROPOSED QUARRY EXTENSION
-  SITES OF *Chrysanthemum segetum*
-  SITES OF *Chrysanthemum segetum* IDENTIFIED BY THE ENVIRONMENT PROTECTION DEPARTMENT



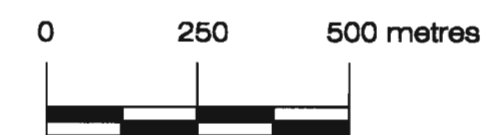
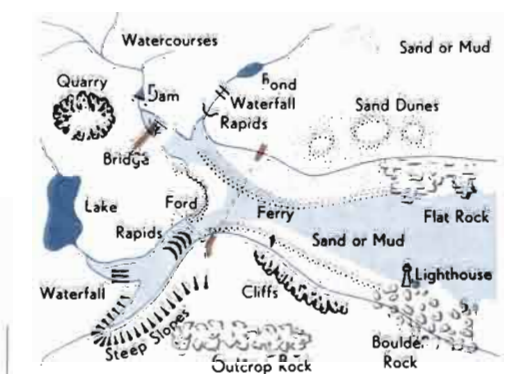
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Fax: (356) 261302

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PROJECT TITLE :	
EXTENSION TO QUARRY AT TA' KLEMENT, L/O QALA GOZO	
DRAWING TITLE :	
LOCATION OF <i>Chrysanthemum segetum</i>	
SCALE:	DATE:
1 : 2,500	MAY 2001
DRAWING NO.:	
5_99_3	



- Trigonometrical Stations :- Main Δ
 .. Minor ∇
 .. Tertiary \circ
 Heights in feet given to ground level 823
 Contours (V.I. 25') 125
 100
 75
 Water Tank \square
 Spring \square
 Reservoir \square
 Groups of Trees \square
 Main Roads ---
 Secondary Roads ---
 Minor Roads and Cart Tracks ---
 Footpaths ---
 Named Buildings, Others \square
 Antiquities \square
 Church, Chapel, School \square
 Hospital, Police Station \square
 Barracks, Cemetery \square

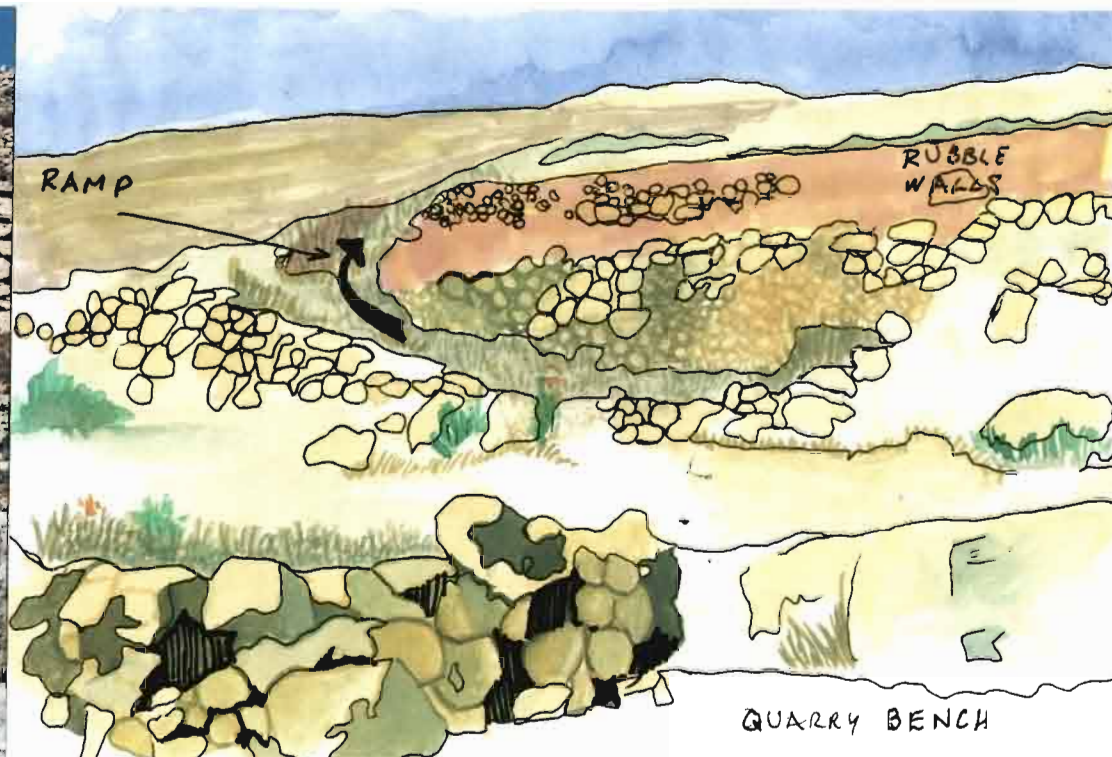


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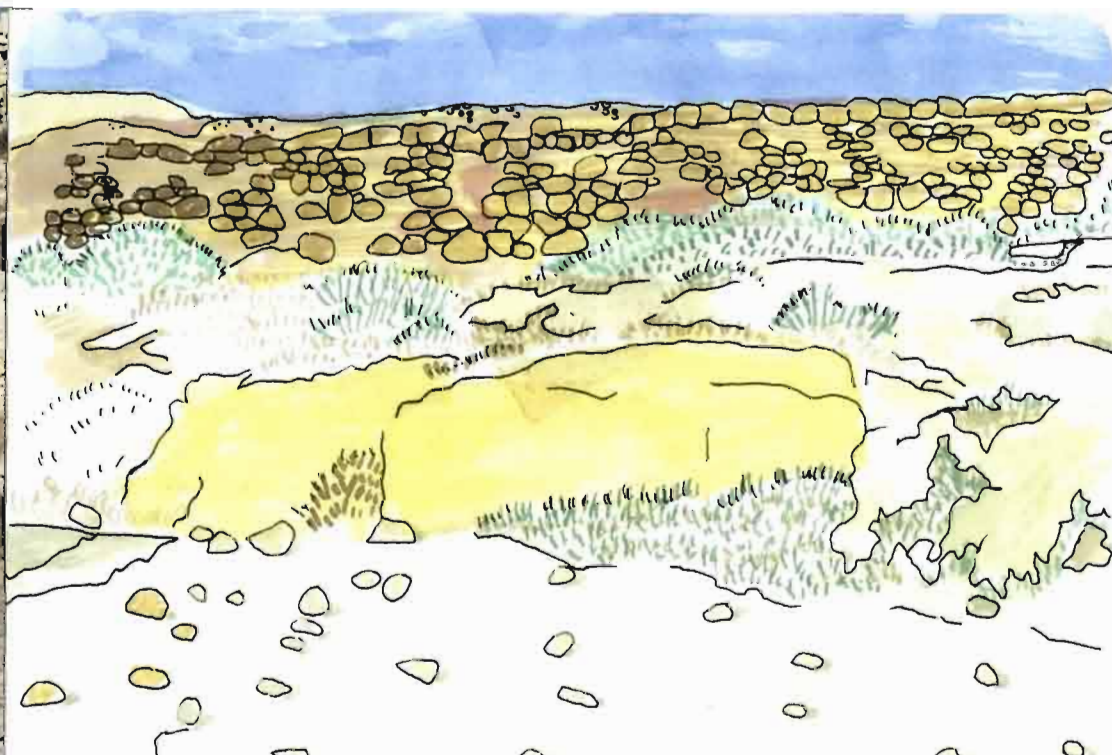
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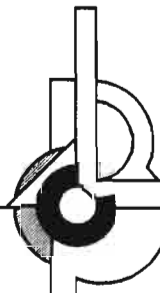
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NEW HARDSTONE QUARRY AT TA' KLEMENT, L/O QALA GOZO	
DRAWING TITLE :	
TOPOGRAPHY	
SCALE:	DATE:
1 : 12,500	AUG '98
DRAWING NO.:	
EIA/5/2-1	

Based on:
 The topographical map of the Maltese Islands,
 Sheet 1: Gozo and Comino, 1984 edition.



- A: A system of poorly maintained pathways and built ramps provide access to field terraces at different levels. Evidence of quarry is present in the foreground.
- B: Old quarry bench (?) showing excessive weathering and erosion-related features. At the background, there is a typical continuous rubble wall.

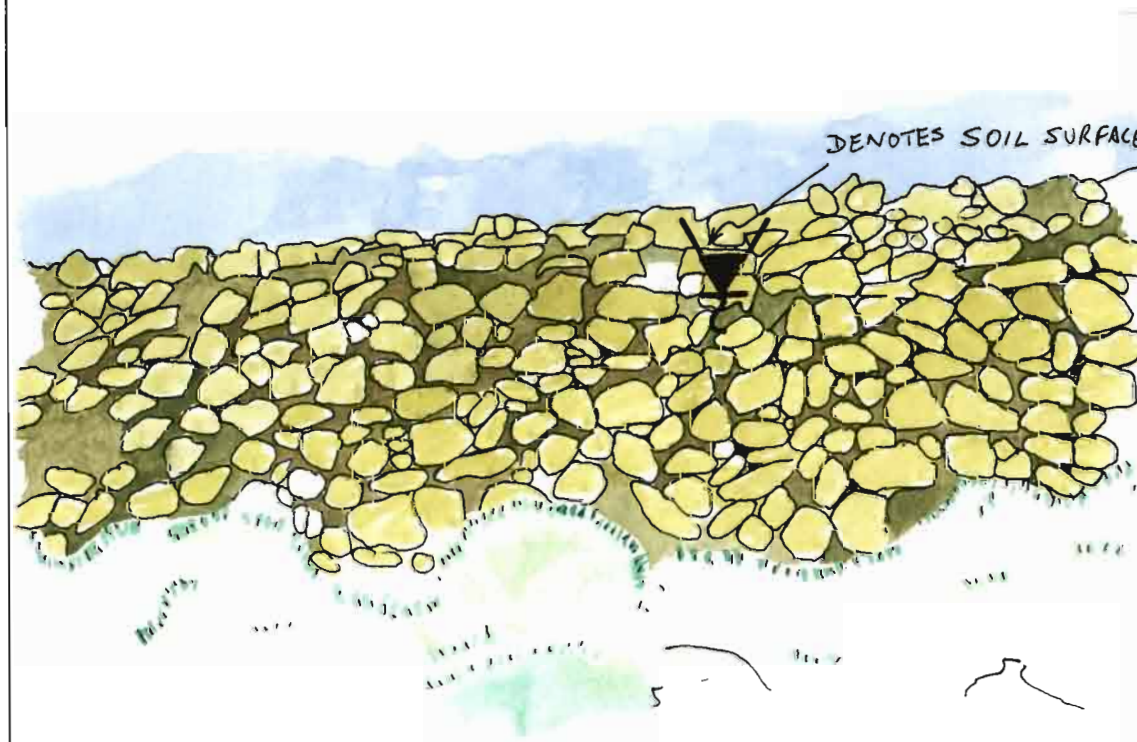




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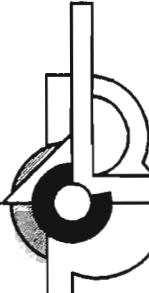
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NEW HARDSTONE QUARRY AT TA' KLEMENT, L/O QALA GOZO	
DRAWING TITLE :	
EXISTING SITE ACCESS	
SCALE:	DATE:
As Shown	AUG '98
DRAWING NO.:	
EIA5/2-5	



- A: Continuous, quasi uninterrupted, rubble wall characterize the area.
- B: Weep-holes, where present, occur at regular intervals in rubble wall construction.
- C: Detail of weep hole.

The main visual feature in the landscape, seen from any distance off the coast, is rubble walls going up from the coast to Ta' Miju Road. Although rubble walls patterns still match the terraced field boundaries, the materials with which they are constructed vary. Variations in materials used in the erection of these rubble walls strongly match the geology of the area. Thus, rubble walls up to about 50m off the coast are built out of Lower Coralline Limestone while others are built out of Globigerina Limestone. This explains why the rubble walls closer to the shore, though poorly maintained, have weathered better than others higher up the plateau. Where present, weep holes are present at regular intervals.

Rubble walls are actually recycled inert waste resulting from past quarrying activities.



96, Censu Bugeja Street, Hamrun HMR 10,
MALTA (Europe)
Tel: (356) 241747, Mob: 0942 2727
Fax: (356) 251302

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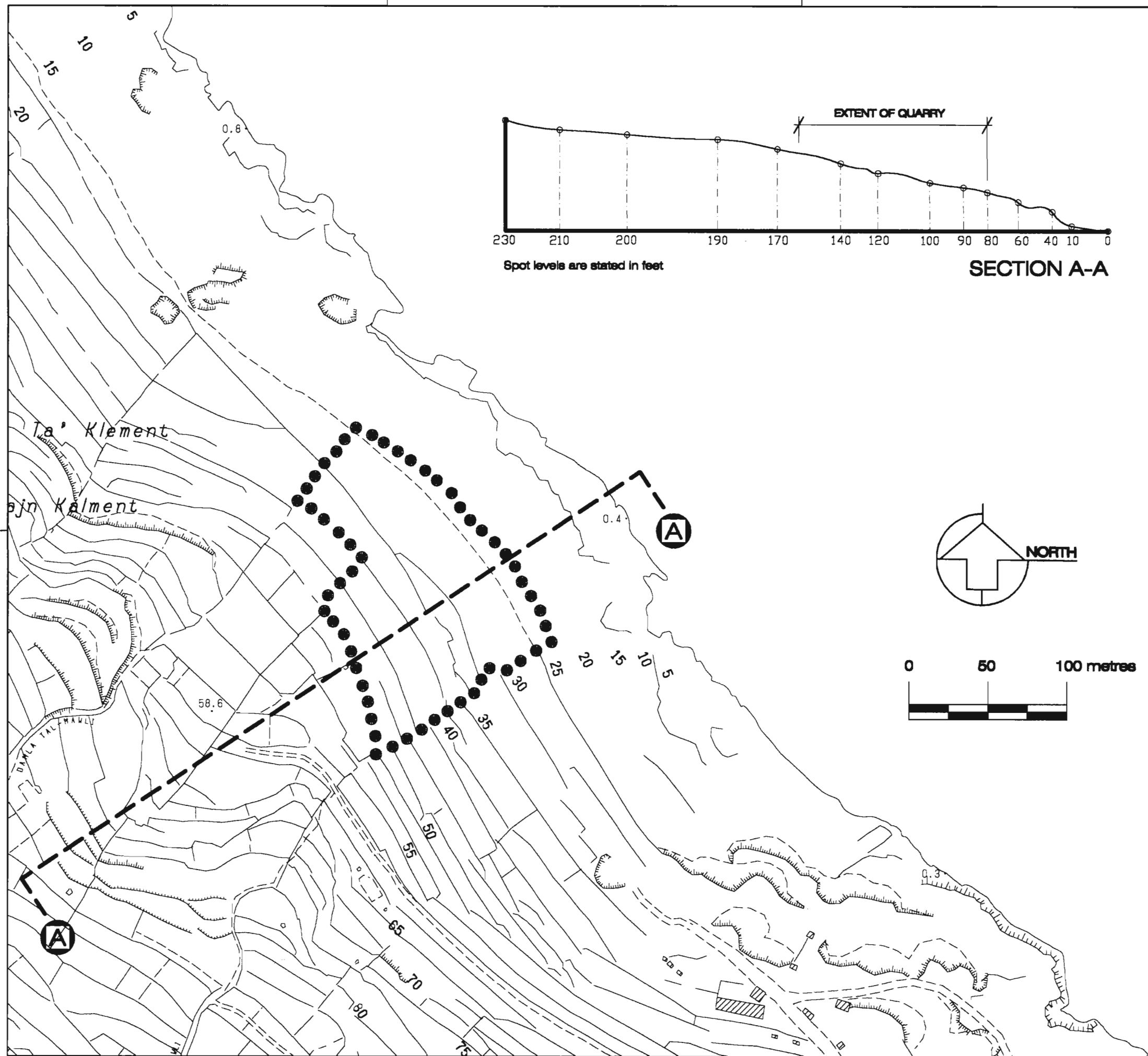
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AT TA' KLEMENT, L/O QALA
GOZO







DRAWING TITLE :
RUBBLE WALL CONSTRUCTION

SCALE: As Shown	DATE: AUG '98
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DRAWING NO.:
EIA5/2-6



LEGEND :

-  SITE BOUNDARY
-  WALL, FIELD BOUNDARIES
-  STEEP SLOPES
-  TRIGONOMETRICAL STATION
-  SPOT HEIGHT
-  CONTOURS



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MALTA (Europe)
Tel: (356) 241747, Mob: 0942 2727
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PROJECT TITLE :
**NEW HARDSTONE QUARRY
AT TA' KLEMENT, L/O QALA
GOZO**

DRAWING TITLE :
**RESTORATION PROPOSAL:
Section - Long Distance**

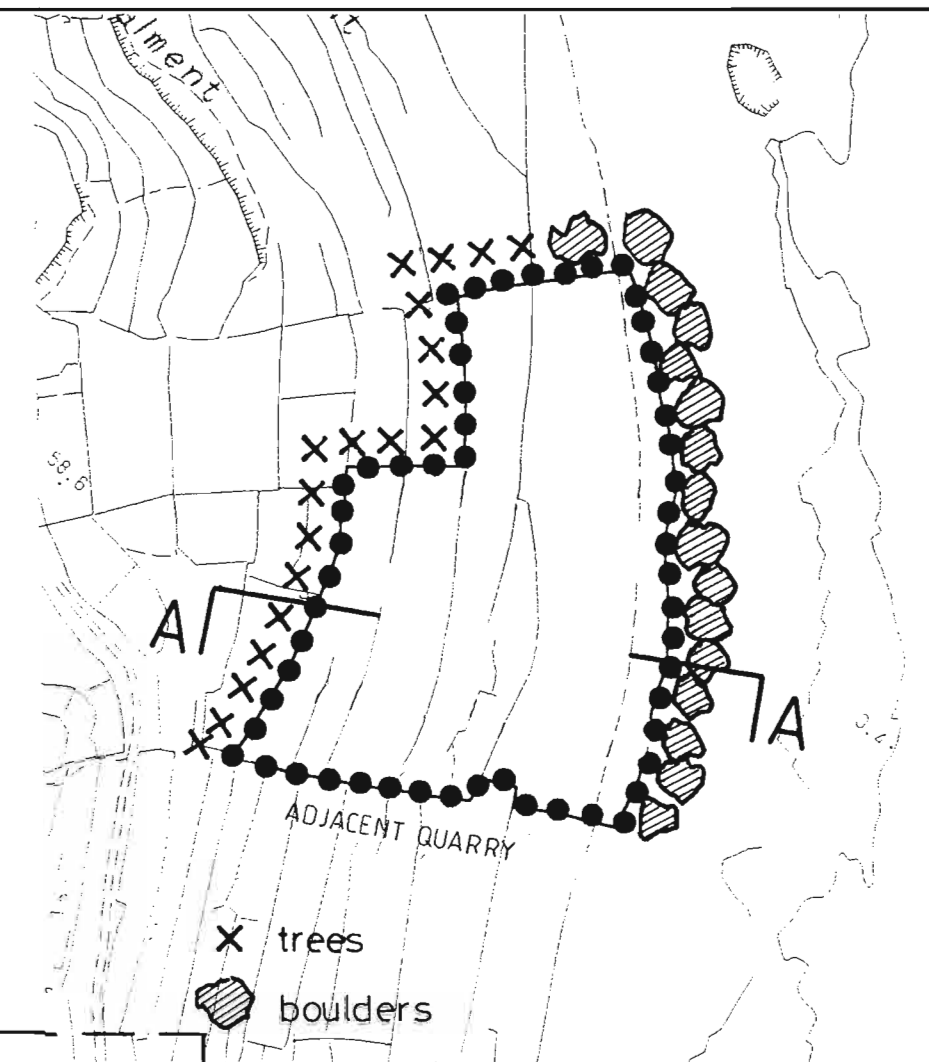
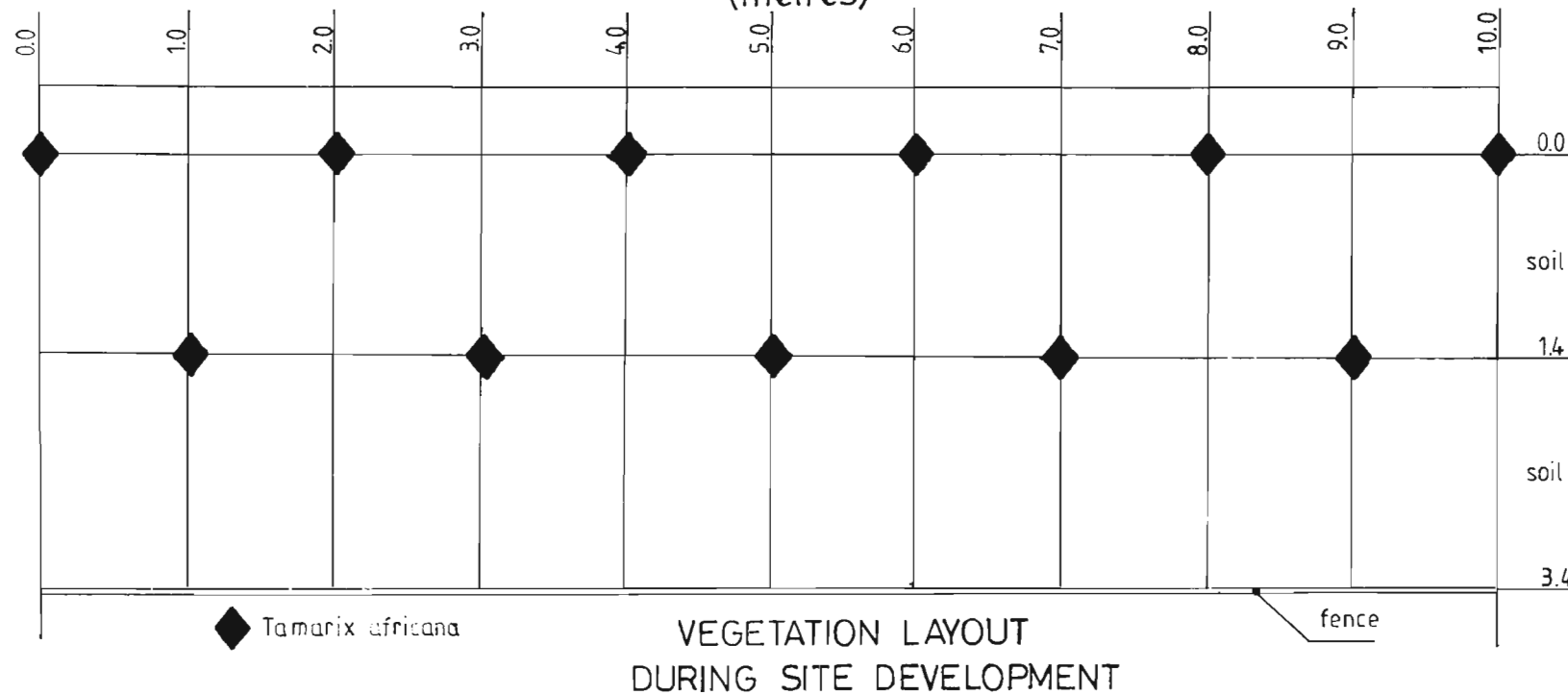
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DATE:
AUG '98

DRAWING NO.:
EIA5/13-7

Scale:1:50

SECTION A-A (metres)



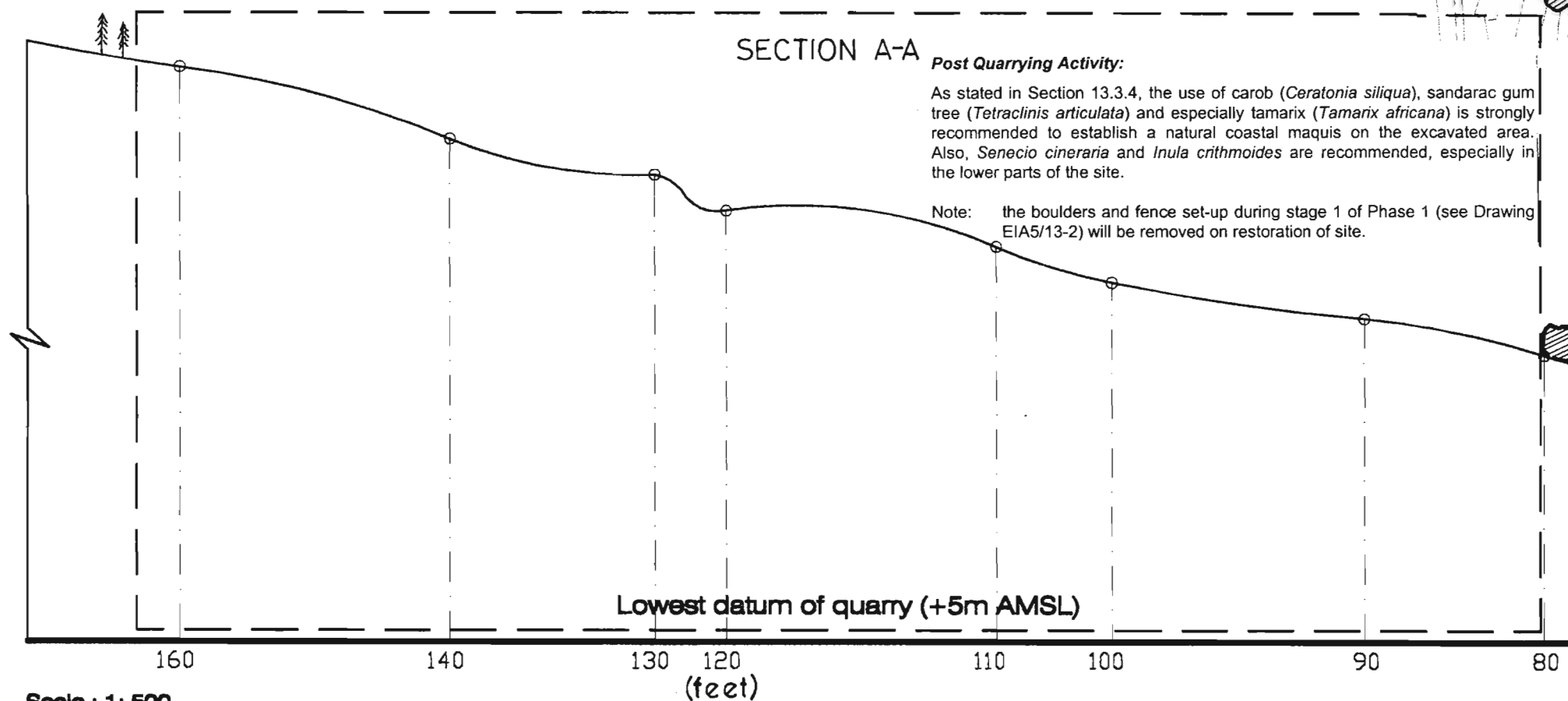
EXTENT OF QUARRY

SECTION A-A

Post Quarrying Activity:

As stated in Section 13.3.4, the use of carob (*Ceratonia siliqua*), sandarac gum tree (*Tetraclinis articulata*) and especially tamarix (*Tamarix africana*) is strongly recommended to establish a natural coastal maquis on the excavated area. Also, *Senecio cineraria* and *Inula crithmoides* are recommended, especially in the lower parts of the site.

Note: the boulders and fence set-up during stage 1 of Phase 1 (see Drawing EIA5/13-2) will be removed on restoration of site.



98, Omsu Bugaja Street, Hmrun HMR 10,
MALTA (Europe)
Tel: (356) 241747, Mob: 0842 2727
Fax: (356) 251302

IANCO & Associates
ARCHITECTURAL & STRUCTURAL DESIGN STUDIO
ENVIRONMENTAL MANAGEMENT CONSULTANCY
URBAN PLANNING & DESIGN CONSULTANCY

CLIENT :
ROAD CONSTRUCTION CO. LTD.
ZEBBUG ROAD, L/O VICTORIA
GOZO

PROJECT TITLE :
NEW HARDSTONE QUARRY
AT TA' KLEMENT, L/O QALA
GOZO

DRAWING TITLE :
RESTORATION PROPOSAL:
Vegetation Layout

SCALE: DATE:
As Shown AUG '98

DRAWING NO.:
EIA5/13-10