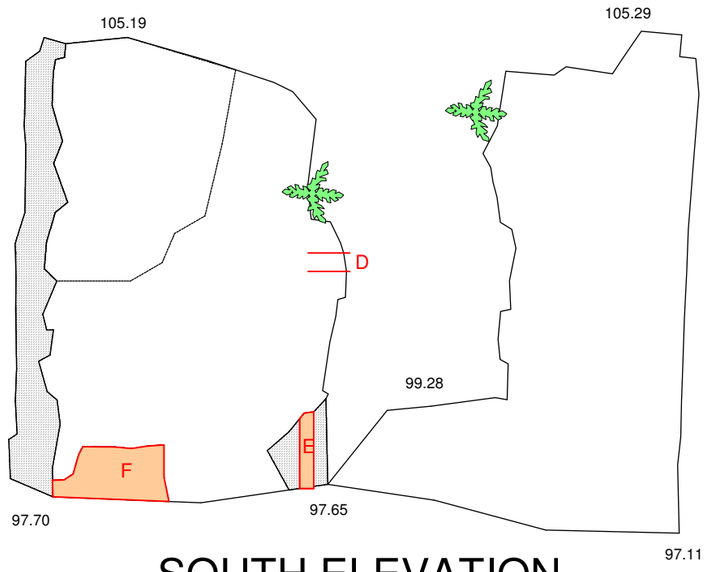
EAST ELEVATION

SECTION 4 (104.60)

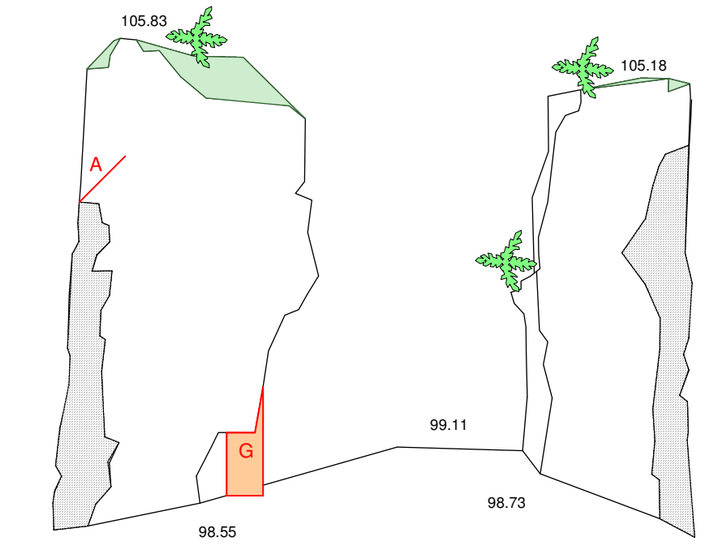
SECTION 3 (102.60)

SECTION 2 (100.60)



SOUTH ELEVATION

DATUM = 95.00m

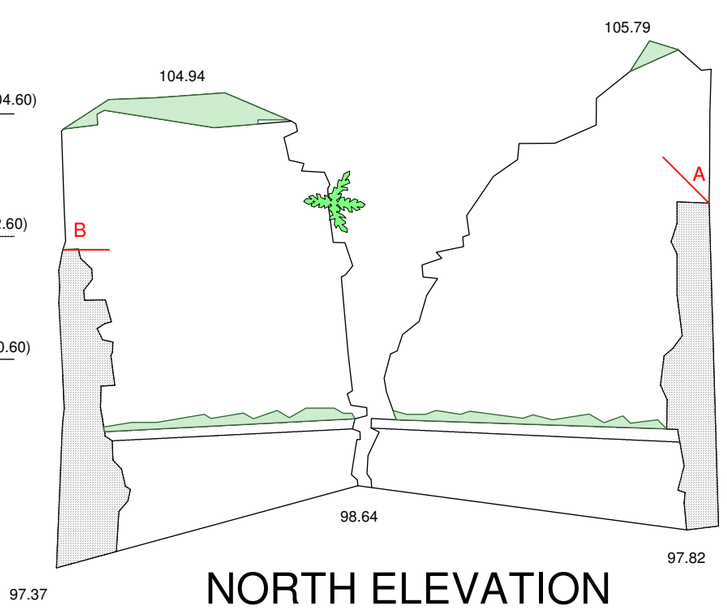


WEST ELEVATION

SECTION 4 (104.60)

SECTION 3 (102.60)

SECTION 2 (100.60)



NORTH ELEVATION

DATUM = 95.00m

INNER TOWER
EXTERNAL ELEVATIONS
1:100

0 1 2 3 4 5 6 M

KEY TO INFORMATION

A - stainless steel shelf support under quoin stone, with tie rods embedded or bolted to stonework above.

B - stainless steel support(s) to overhanging quoin stone.

C - brick pier built off prepared wallhead under unsupported masonry.

D - stainless steel tie straps to prevent cracking masonry from further movement (remove any embedded tree roots)

E - as C. (provisionally)

F - stone pinning technique to robbed area of wall face built off prepared wall head.

G - as C.

area of stonework where face stones have been robbed, any loose stones to be consolidated with lime mortar pointing

existing grass/turf area to be retained as shelter to wall heads

woody vegetation to be removed and stump treated to prevent re-growth

GENERALLY
(Refer also to Outline Scope of Consolidation works notes on drawings 547-101 to 104 etc.)

The principles of conservative repair and minimal intervention will be observed to ensure the continued survival and stability of the structure.

Samples of existing historic mortar are to be carefully removed for a detailed lime mortar analysis, using X-ray diffraction, and where appropriate by petrography examination, to establish the binder proportions and aggregate gradings. The location of samples to be agreed in advance on site with the architect. Following this analysis a detailed specification will be developed for the replacement mortar mix(es).

New mortars will be traditional lime mortars, without any cement content nor chemical plasticizers. There is a possibility that hydraulic limes may be used.

All masonry surfaces are to be checked for stability and cohesion.

Any loose or defective mortar in masonry joints is to be carefully removed and replaced in new lime mortar.

Where loose stonework is discovered, the affected area should be recorded using digital photographs following the setting up of a 100mm square reference grid. The loose stones should then be carefully taken down and rebuilt without delay, to the original configuration, with the aid of the recorded information. Do not place permanent marks on any of the masonry surfaces.

Embedded woody vegetation is to be carefully removed by cutting the stems at the wall surface. Embedded roots should not be removed, but treated in-situ using an approved biocide.

Any open joints are to be filled using new lime mortar. Any new pinnings which are introduced into wide joints to be selected from the same source.

No fixings from temporary access platforms will be permitted. Galvanised tube and fittings should be used. Scaffold design is to be developed by the contractor, and is to be approved prior to commencement. Allow for provision of temporary shelter suitable for lime working.

The working season to be restricted to between April and October.

Job: LOCHORE CASTLE		Revisions: A - 24/02/2015 - for tender B - 13/10/2015 - engineer works
Drawing: CENTRE TOWER - EXTERNAL ELEVATIONS		
Status: DRAFT STRUCTURAL REPAIRS		
Drawing No: 547 - 02 B	Scale: 1:100 AT A3	
	Date: MAY 2014	
	Drawn by: SN	