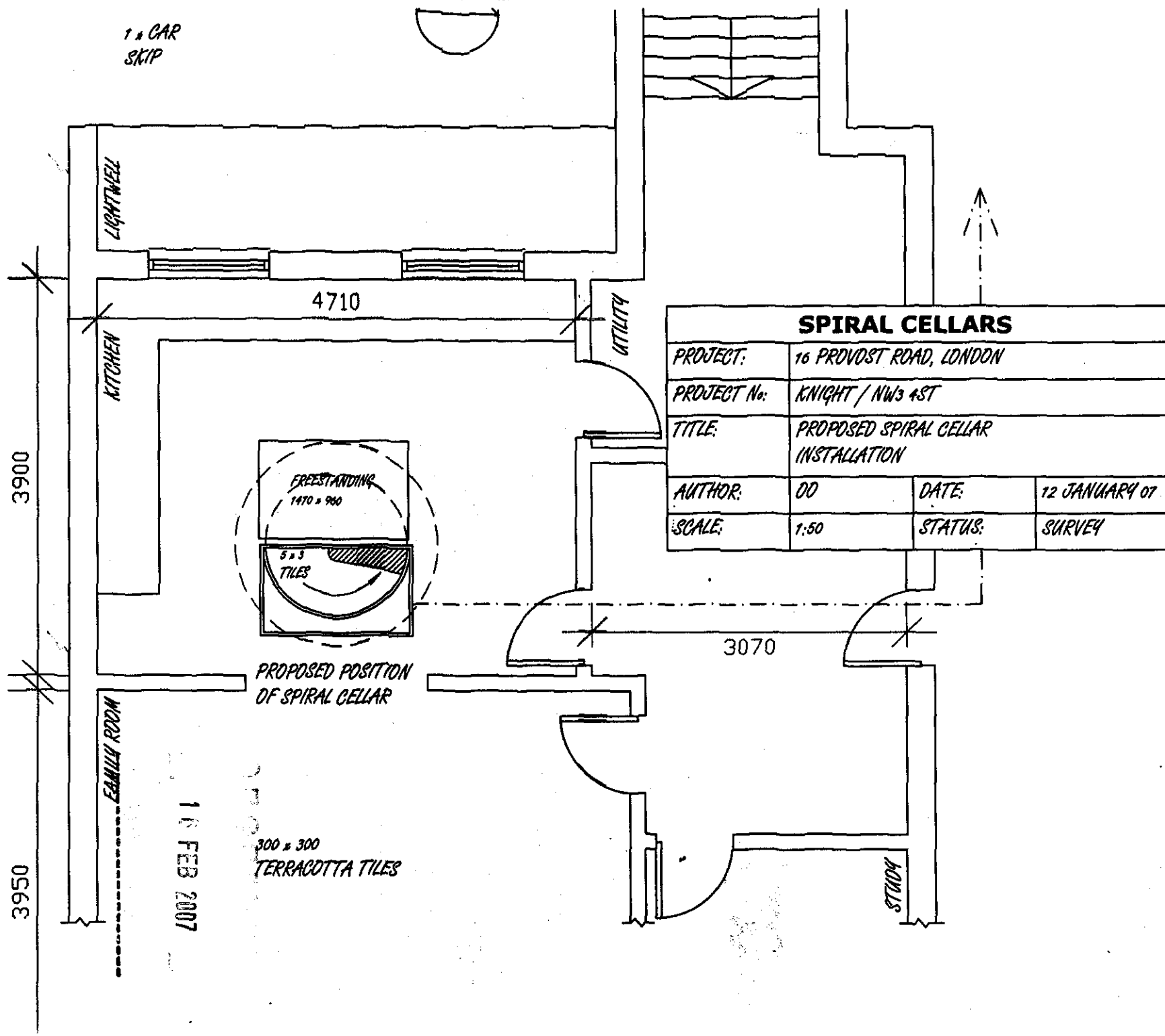




Technical drawing of a circular structure, likely a well or a large pipe, showing a cross-section. The drawing includes a circular outline with a diameter dimension of 1500. A square frame is superimposed on the circle, with a dimension of 50x50 ANGLE FRAME. A trap door is shown within the square frame, labeled HOUSING TRAP DOOR. The structure is labeled INSITU CONCRETE. The drawing is oriented with a north arrow pointing towards the top right. The drawing is labeled TOP L.A. R OF UNITS.

REINFORCEMENT :-
5MM BAR WITH MINIMUM 10MM COVER

1000 RADIUS

20

92

25

46.4

20

1/2 OF CIRCUMFERENCE (180° TOLERANCE)

MINIMUM 10 MM COVER

PLAN

SECTION D-D SECTION E-E

SECTION B-B

FINISH GROUND FLOOR

DOOR TO BEAR

BRICK WALL

HARD PACKED SAND (USING WATER JET) ALL ROUND OUTSIDE OF BAG AFTER CELLS HAS BEEN ERECTED.

BUTYL BAG.

BUTYLITE 150/AA (1500 MICRON+ THICK)

2ND 401A P.V.C VENTILATION PIPES ROUTED TO AIR VENT.

INNER LAYER OF FELT (PROTECTION BETWEEN CONCRETE SLAB & BUTYL BAG)

MESH AND

30 MIN BLINDING

OUTER LAYER OF FELT PROTECTION BETWEEN BLINDING & BUTYL BAG.

HIGH SET THIS BOTTOM TREAD TO ALLOW VENTILATION INTO CENTRE CAVITY.

SECTION A-A

DIMENSION VARIATION ACCORDING TO DEPTH OF CELL & LEVEL OF WATER TABLE (SEE TABLE)

6000

1750 MIN TO 2750 MAX.

1500

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9.5 ROUND TRAP ON CIRCULAR

AR

TOP LAYER OF UNITS

CIRCULAR 102 mm THICK BRICK WALL AROUND CIRCUMFERENCE OF SPIRAL CELLAR

FASCIA BOARD DOWN TO TOP LAYER OF UNITS

FLOOR JOISTS TO BEAR ON BRICK WALL TO SUIT SITE CONDITIONS

TRAP DOOR OPENING, FORMED IN EXISTING FLOOR

ED

TRAP DOOR AND TOP DETAIL
(WHERE CELLAR IS FITTED IN HOUSE
WITH TIMBER FLOORS ON SLEEPER WALLS.)

The drawing shows a semi-circular arch with a radius of 30 units and a circumference of 188.49 units. The arch is divided into three segments by two vertical lines, labeled G-G and F-F. The segments are labeled 1, 2, and 3. The arch is supported by two abutments, each 45 units wide. The cross-sections G-G and F-F are shown as rectangular shapes with dimensions 300 units wide and 220 units high. The arch is shown in a perspective view, with the radius and circumference labeled. The cross-sections are labeled G-G and F-F. The arch is supported by two abutments, each 45 units wide. The cross-sections G-G and F-F are shown as rectangular shapes with dimensions 300 units wide and 220 units high.

DETAIL OF SHELF UNIT
SIX PER CIRCULAR LAYER

150 E.G. BAR

2" NO. 4 DIA. PVC VENT
PIPES ROUTED TO AIR
AT HIGHER LEVEL

MESH A199
7" DIA. BARS at 800CM
EACH WAY

1000 E.G. BAR

CIRCULAR 100
BRICK WALL

NOTE- ENDS OF MESH
BARS BENT OVER TO
REMOVE SHARP ENDS FROM
CONTACT WITH SURVIL BAG.

HARD FACED

CELLAR DETAILED AS 2.250 DEEP
IS SUPPLIED AND CONSTRUCTED BY
BY SPIRAL CELLARS LTD. IN DEPTHS
RANGING FROM 2 METRES TO
3 METRES IN 250MM INCREMENTS.

DEPTH OF CELLAR	WITHOUT WATER	LEVEL OF WATER TABLE ABOVE TOP OF BASE SLAB			
		+0.5M	+1.0M	+1.5M	+2.0M
2.00M	0.15M	0.15M	0.40M	0.70M	NOT ECONOMICAL
2.50M	0.15M	0.15M	0.30M	0.60M	1.20M
3.00M	0.15M	0.15M	0.30M	0.60M	1.10M

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER DRS AND SPECIFICATIONS PREPARED FOR ANY PARTICULAR INSTALLATION.
2. SEE DRAWING FOR UNDERPINNING OF ADJACENT WALLS AS NECESSARY.
3. PRECAST UNITS SUPPLIED AND DELIVERED BY SPECIALIST MANUFACTURERS.
4. CONCRETE MIXES :-
PRECAST UNITS
330Kg CEMENT TO 1M³ COMBINED AGGREGATE (10mm MAX.)
INSITU SLABS ETC.
330 Kg CEMENT TO 1M³ COMBINED AGGREGATE (20mm MAX.)

10 FEB 2007

171159	Drawing updated.	R.C.C.
rev.	date	by

Project UNDERGROUND
WINE STORAGE
CELLARS

Drawing CONSTRUCTION DETAILS
OF STANDARD CELLAR

Client
Spiral Cellars Ltd Unit F4
Hardham Mill Business Park
Pulborough, W Sussex RH20 1LA

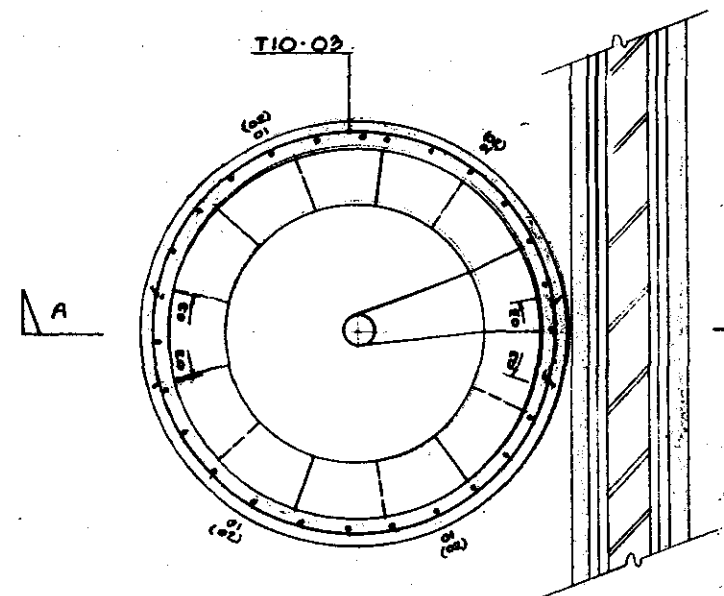
CHAPPELL & LYNN
CONSULTING STRUCTURAL ENGINEERS

54 Belmont Rise Chesham Sutton
Surrey SM2 6EQ

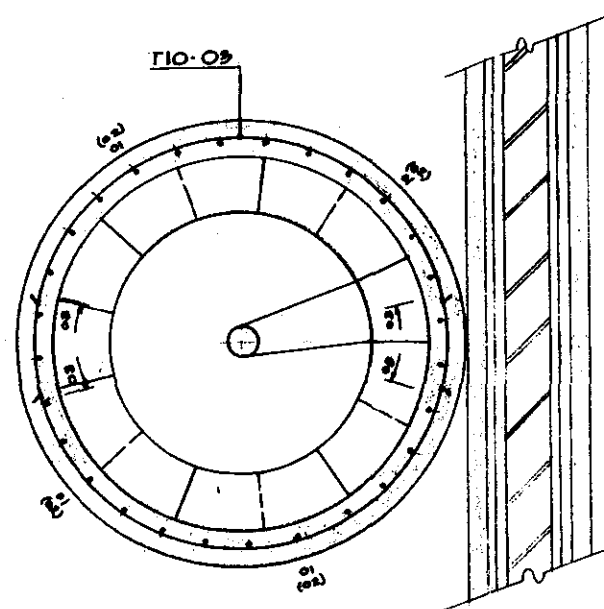
Telephone 020 8643 7600

SCALE	DATE	BY
1:10 & 1:20	2-12-98	R.P.P.

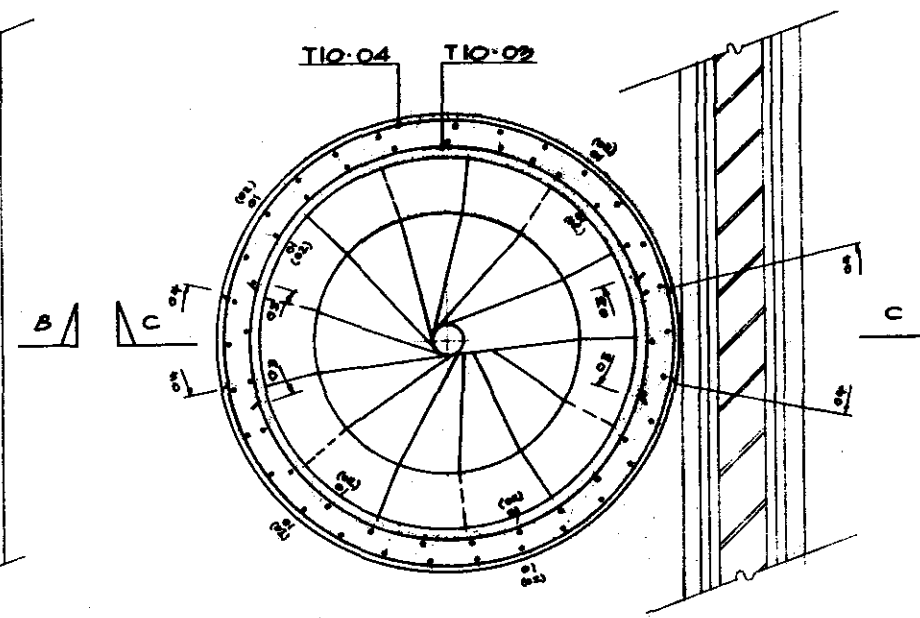
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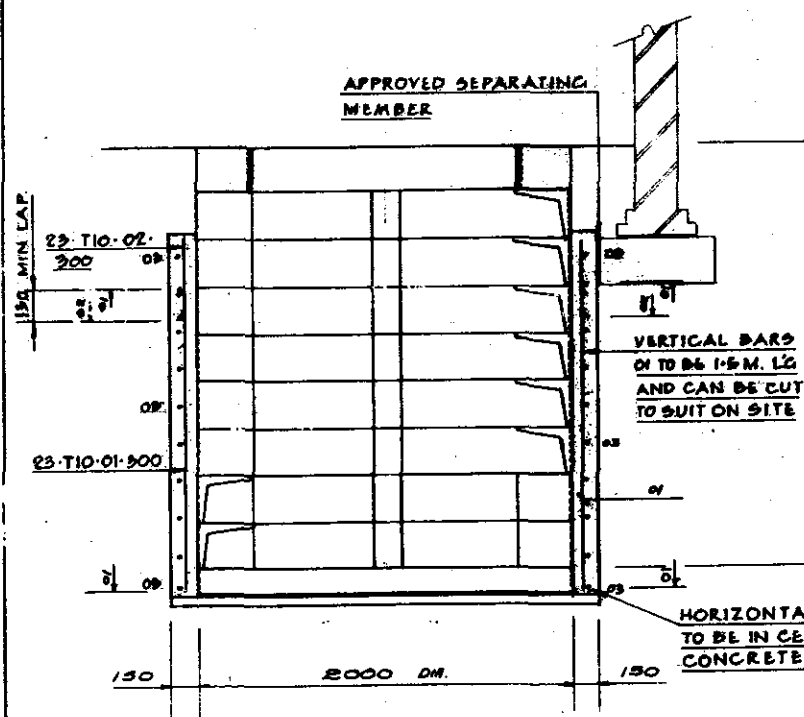
PLAN ON SPIRAL CELLAR WITH 150 THK. CONG. RING
(1:20)



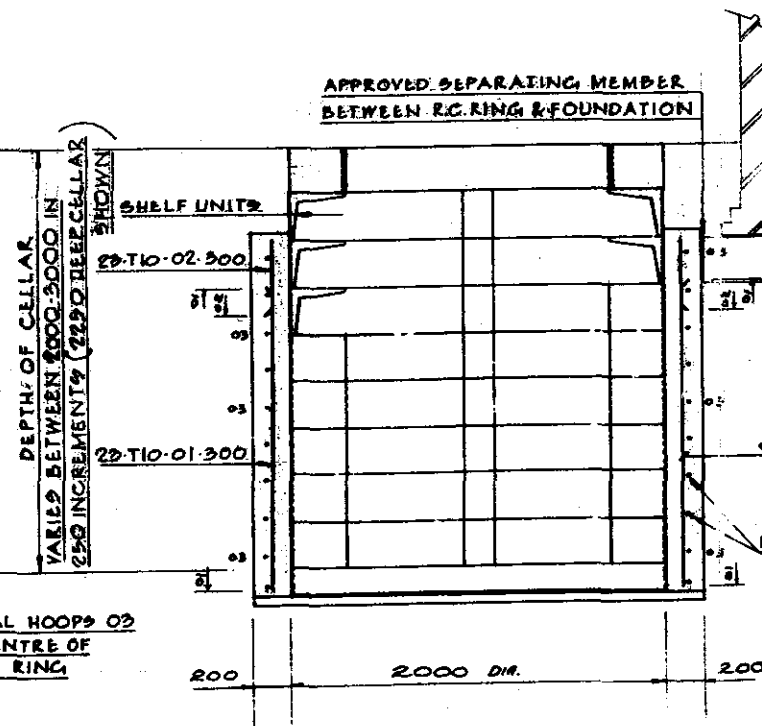
PLAN ON SPIRAL CELLAR WITH 200 THK. CONG. RING
(1:20)



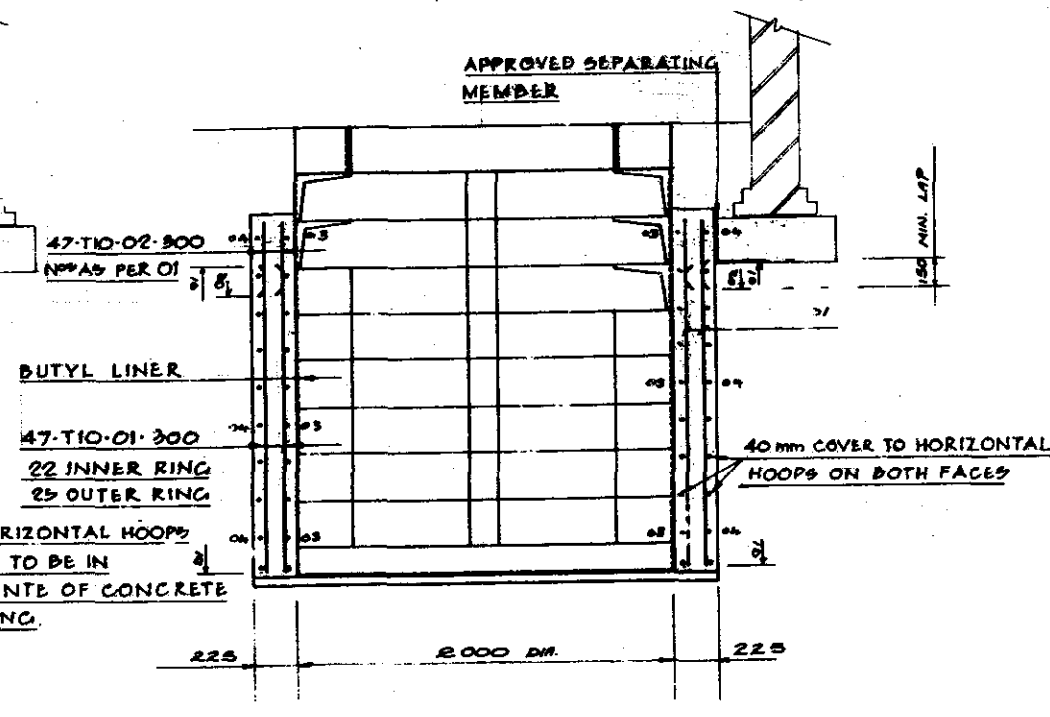
PLAN ON SPIRAL CELLAR WITH 225 THK. CONG. RING
(1:20)



SECTION 'A-A'
(1:20)



SECTION 'B-B'
(1:20)



SECTION 'C-C'
(1:20)

NOTE
THICKNESS OF CONCRETE RING AND SPACING OF HORIZONTAL HOOPS (03 & 04) TO ENGINEERS REQUIREMENTS. LENGTH OF BAR MARK 02 VARIES DEPENDING UPON DEPTH OF FOUNDATIONS AND CELLAR. SEE CALCULATION SHEETS FOR SPECIFIC PROJECT.

THICKNESS OF CONCRETE RING (MM)	RESISTANCE MOMENT (KNM)			
	HORIZONTAL HOOPS SPACING (MM)			
	100	150	200	250
150	19.18	13.75	10.67	8.72
200	27.03	18.98	14.59	11.86
225	52.16	35.73	27.14	21.92

GENERAL NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER ENGINEER'S AND ARCHITECT'S DRAWINGS.
- FULL DETAILS OF SPIRAL CELLAR SHOWN ON CHAPPELL & LYNN'S DRG NO C1089/2
- ALL CONCRETE TO BE A 1:1 1/2:3 NOMINAL MIX USING SULPHATE RESISTING CEMENT & 10mm MAXIMUM AGGREGATE.
- MINIMUM COVER TO REINFORCEMENT TO BE 40mm.
- CARE SHOULD BE TAKEN TO PREVENT DAMAGE TO BUTYL BAG, WHILE PLACING REINFORCEMENT AND CONCRETE.
- TIE WIRES TO BE TURNED AWAY FROM BUTYL BAG.
- TOP OF R.C. RING TO FINISH 300 ABOVE UNDERSIDE OF FOUNDATIONS.
- REINFORCEMENT SCHEDULED ON SHEET NO.1.

10 FEB 2007

SPIRAL CELLAR INSTALLATION.

ARRANGEMENT & DETAILS OF CELLAR ADJACENT TO FOUNDATIONS WITH A R.C. OUTER RING.

Client
Spiral Cellars Ltd Unit F4
Hardham Mill Business Park
Pulborough, W Sussex RH20 1LA

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scale 1:20 date July 88
Dwg No C1089/3