



Application no: H16/0477/93

Applicant: Live Promotions Ltd  
The Millstone  
9 St Thomas's Road  
Spalding  
Lincs

Agent: A Roffe  
1 Green Lane  
Spalding  
Lincs

Description: Engineers Report  
(Condition 10 of application  
H16/1291/92)

Location: Winsover Road  
Spalding  
Lincs

Type: CONDITION COMPLIANCE

Date received: 21-MAY-93

21-FEB-94

Dear Sir/Madam

TOWN AND COUNTRY PLANNING ACT 1990

ACKNOWLEDGEMENT OF WITHDRAWAL

Following your withdrawal of the above application, I confirm that no further action will be taken.

Yours faithfully

Director of Planning and Building Control Services

# CONDITION COMPLIANCE APPLICATION

4 COPIES OF FORM AND PLANS REQUIRED

## For office use only

Application No. H16/0477/93

Date registered

Grid reference

21 MAY 1993

1. Please complete in block letters

### NAME AND ADDRESS OF APPLICANT

Live Promotions Ltd  
The millstone  
9 St Thomas Rd  
Tel. No. Spalding

### NAME AND ADDRESS OF AGENT

(if form completed by agent)

A Roffe  
1 Green Lane  
Spalding  
Tel. No. (Contact)

Please complete in block letters

### FULL POSTAL ADDRESS OF THE APPLICATION SITE

Wuisover Road, Spalding

OFFICE  
COPY

Please complete

### EARLIER APPLICATION No.

This application cannot be considered  
unless the relevant reference is stated

H16/1291/92

Please complete

I attach the necessary plans and apply for approval as described below

Signed ..... Date .....

Please complete the section below.

**This form is for approval of additional details.** For approval of reserved matters you should not use this form — ask for Planning Application forms.

If a condition restricts activity in some way, and you wish to remove that restriction, you should not use this form — ask for Planning Application forms.

If a condition requires activity to be carried out in a certain way, you do not normally need to apply for approval, unless the condition specifically requires it.

2. The application is for approval of details required by a condition

(✓)

State which details are submitted

Engineers Report

State drawing no's relating to the current submission

State condition no. under which this application is required

10

AN SMITH Dip TP MRTPI  
Director of Planning & Building Control Services  
Planning & Building Control Department,  
Council Offices,  
Priory Road, Spalding,  
Lincolnshire. PE11 2XE  
Telephone: (0775) 761161  
Fax: (0775) 710772



Town and Country Planning Act 1990

## Outline Planning Permission

Reference: H16/1291/92

Received: 17-DEC-92 Type: OUTLINE

Name: Live Promotions Ltd  
The Millstone  
9 St Thomas's Road  
Spalding  
Lincs PE11 2XY

Agent: A Roffe  
Building Design & Plans  
1 Green Lane  
Spalding  
Lincs PE11 2YB

Description: Extend vehicular access & provide road/footpaths with car parking, provide shops & additional flats

Location : Winsover Road Spalding  
Lincs

South Holland District Council hereby give notice that OUTLINE PLANNING PERMISSION HAS BEEN GRANTED for the development in accordance with the application submitted, subject to the following condition(s):

- 1 Application for approval of reserved matters must be made not later than three years beginning with the date of this permission, and the development must be begun not later than whichever is the later of the following dates:
  - (a) the expiration of five years from the date of this permission,
  - (b) the expiration of two years from the final approval of reserved matters or in the case of approval on different dates, the final approval of the last such matter to be approved.

Reason: As required by Section 92 of the Town and Country Planning Act 1990.

- 2 The following matters are reserved for subsequent approval by the Local Planning Authority, and no development to which they relate shall be carried out until these matters have been approved, viz:
  - (1) Detailed drawings to a scale of not less than 1/100 showing the siting design and external appearance of the buildings, including particulars of the materials to be used for external walls and roofs;
  - (2) The siting and design of any vehicular access to a road;
  - (3) Landscaping of the site, including details of positions, heights on planting and species of trees and shrubs.

Reason: The application was submitted in outline only.

- 3 The approved scheme of landscaping and/or screening shall be carried out in its entirety within a period of two years beginning with the date on which development of the land is commenced. The trees, shrubs or bushes shall be adequately maintained by the owner(s) of the land on which they are situated for a period of ten years beginning with the date of completion of the scheme, and all losses shall be made good during that

period.

Reason: In the interests of visual amenity and to ensure that the approved scheme is implemented satisfactorily.

- 4 Any buildings used for retailing shall be confined to use as a shop within Class A1 of the Town and Country Planning (Use Classes) Order 1987.

Reason: To safeguard the amenities of the area.

- 5 Before any development is commenced the approval of the Local Planning Authority is required to:
- (i) a \*specification of the type of construction proposed for roads and/or footways;
  - (ii) a programme for the making up of the roads and/or footways;
  - (iii) details of the method and means of disposal of surface water;
  - (iv) detailed plans to a scale of 1/500 showing the layout of the roads and footways together with longitudinal sections to a scale of 1/500 horizontal and not less than 1/100 vertical showing the gradients of carriageways and full details of surface water drainage proposals. (Cross-sections taken at not more than 30 metres intervals normal to the proposed carriageway plotted to a scale of 1/100 natural will also be required where the adjoining ground levels will vary 0.5 metres plus from the proposed finished footway levels of the estate road);
  - (v) details of all proposed services showing location within the highway in accordance with the Report of the Joint Committee on the location of underground services published by the Institute of Civil Engineers in 1963.

\*This specification shall be such as to enable the Local Highway Authority in due course to take over the roads and/or footways as highways maintainable at the public expense

Reason: To ensure an adequate standard of access to the estate in the interests of local amenity and convenience.

- 6 No dwelling to which this permission relates shall be commenced unless or until the carriageway basecourse and kerb foundation of the new estate roads onto which it fronts, is adjacent to, or gains access from, has been constructed.

Reason: To enable the position of the dwelling(s) and associated estate road(s) in the layout to be fixed more accurately in the interests of the proper planning of the area.

- 7 Before any other part of the development hereby permitted is commenced, the junction of the estate road with the existing public highway shall be constructed for at least 30 metres into the site, to the satisfaction of the Local Planning Authority.

**BRIAN SMITH** Dip TP MRTPI

Director of Planning & Building Control Services

Planning & Building Control Department,

Council Offices,

Priory Road, Spalding,

Lincolnshire. PE11 2XE

Telephone: (0775) 761161

Fax: (0775) 710772



Reason: To ensure that the land required for the access, including the visibility splays, is not used or developed for purposes that would prejudice the development of the backland and to ensure that vehicles can park clear of the public highway, in the interests of amenity and road safety, while the development is being carried out.

- 8 When application is made for approval of the "reserved matters", that application shall show adequate land within the site reserved for the parking of all vehicles expected to call at the permitted building(s) at any one time. Such parking provision as approved by the Local Planning Authority shall thereafter be used for or be available for use for vehicle parking at all times when the premises are in use.

Reason: So that adequate on-site motor vehicle parking facilities are provided, in the interests of the safety and convenience of traffic using Winsover Road.

- 9 Before any development is commenced the approval of the Local Planning Authority is required to the detailed design of the scheme to provide for the satisfactory disposal of highway surface water run-off from the development; and such scheme as approved shall be carried out before any building is occupied.

Reason: To ensure that highway surface water run-off from the development will not adversely affect, by reason of flooding, the amenity of nearby land.

- 10 Before development is commenced a site investigation and assessment shall be carried out and submitted to the Local Planning Authority to discover if, and to what extent, any ground contamination exists, and any development shall incorporate all the measures the assessment shows are necessary to protect the future occupiers of owners of the development.

Reason: The Local Planning Authority has information that the land was at one time used as an industrial works and may be contaminated.

sgd B SMITH

Director of Planning and Building Control Services

19-FEB-93 H16/1291/92

# APPLICATION ASSESSMENT

## Notes for Case Officer

### Site Inspection

Accuracy :  
Neighbours :  
Boundaries :  
Site Features :

Inspected by *Not needed*  
Date

Site Notice posted by  
Date  
Expiry *not needed*

Individual Resident Notices required:

Addresses to be  
sent to -

Addresses  
delivered to -

### Case Officer Conclusions

*B. Regs seem happy for situation.*

## RECOMMENDATION/DECISION

### NON-DETERMINATION

Permitted Dev (or equiv) .....  
Non Development (or equiv) .....  
Non Response after Direction .....

Senior Officer confirmed .....

Withdrawn .....

### DELEGATED DECISION

#### Case Officer Recommendation

Approve / Refuse  
(or equiv) (or equiv)

Signed *DM* Date *18-6*

### COMMITTEE

Confirmed as agenda .....

### SUB-COMMITTEE

Confirmed as agenda .....

### DPBCS AUTHORISED

Decision Issue confirmed .....

#### Notes:

|  |
|--|
|  |
|  |
|  |

Disabled  
Prev conditions  
Amended plans -  
Dwg no:  
Received:

Conditions/Reasons: (cont overleaf)

# DC INSTRUCTION SHEET

APPLICATION REF: M16/Q477/93

## Directions

Art 7 (Outlines)

☐

RM checklist

Previous  
Current  
Required

Sit

Des

Ext

Acc

Land

|  |  |  |  |  |
|--|--|--|--|--|
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Reg 4

Scale drawing....

Highway S/W....

Agric appraisal....

☐

Non  
Std

Precise details:

Direction authorised by Senior Officer.....

Date.....

## Revalidation after Direction

Information satisfactory

Signed.....

Date.....

Valid date:

Amended description

Reconsultations:

All.....  
Specified:

Unsatisfactory -  
Further direction:  
Signed.....  
Senior Off.....

Precise details:

## Additional Consultation/Publicity Required

*PDN 27-5 quick scan, report  
Seems to be structural rather than  
publicity based*

Publicity: >>

Consultations:

Departure  
Setting of LB  
Public Right of Way  
Discretionary

.....  
.....  
.....  
.....

County  
E Heritage  
Societies

..... PDN 1/c  
..... G ROW

Extra Consultations:

Transport D/Transp A15 ..... G\* T15  
TRA D/Transp A18 .....  
B Rail .....

Environment/ Env Services .....  
Drainage NRA .....  
WAT IDB .....  
Env Assess ..... G ENV Specify:

Conservation LB Demolish ..... G\* DEM  
LB Archaeology ..... G ARC Specify:  
Eng Heritage .....  
Consultant .....  
Other ..... Order No:  
Specify:

Hazards HSC Group ..... G\* HAZ  
Specific .....

Other PLA *R. Sturkey* .....

Order No:  
Specify:

WP Note -  
G Group available  
G\* Group essential  
(longer expiry)

## Case Officer

Senior Officer Confirmed *pu* .....

Date.....

Recorded DC....

# AD N RECORD SHEET

## Initial

Submitted Fee £ NIL

Receipt No

Date first Rec'd 21 MAY 1993

## Registration

Reference H16/0477/93

Cross-Ref N/A

Date 24-MAY-93 JAB

## Validation

TYPE C comp.

Site area  
No of dwellings  
Floorspace

Earlier permission - Ref:  
New/Redevelop/Use/Ext/Alt/Works

Description  
to be recorded

|  |
|--|
|  |
|--|

Invalid

Site plans  
Certificate

|  |
|--|
|  |
|  |

Fee  
Fee (not free)

|  |
|--|
|  |
|  |

Inaccurate  
Incomplete  
Unclear

|  |
|--|
|  |
|  |
|  |

Fees

Correct fee £ NIL

Nil fee

|  |
|--|
|  |
|  |
|  |

Previous app - ref:  
Type of app  
Reason:

Discounted

Additional £  
Refund £

Receipt No  
Voucher No

Date  
Date

## Information

Index sheet 201 OS Plots  
Grid ref 524380 322570

Ward Parish

Inside IBD Inside LP area

Constraints:

CA Cons Area

LB Listed - Grade:  
ARC Archaeology  
AM Ancient Mon  
SSI Special Int

TR Rural  
BP TR proposed 67m  
LC Level Cross  
FP Footpath

TPO Tree Pres

Hazards -

Linked to site

Ref 1398

Dist Bound

Linked to property

Ref

Other:

HAZ Site  
AIR Safeguard  
LIN Elect  
PIP Pipe  
CON Waste/contamin

Planning Records:  
Earlier apps

B Reg Records:  
Already submitted - Ref:  
Request needed  
Requested

Minutes of a Meeting of the **PLANNING COMMITTEE** held in the Council Chamber, Council Offices, Priory Road, Spalding on Wednesday, 17th February, 1993.

**PRESENT**

Councillors:

Mr. B. Alcock - Chairman  
Mr. T. Bray - Vice-Chairman

|                     |                        |                  |
|---------------------|------------------------|------------------|
| Mr. W.D. Skells     | Mr. E.N. Davies        | Mr. B.A. Paul    |
| Mr. T. Barker       | Mr. J.A. Dobney        | Mr. J.R. Pearl   |
| Mr. A.J. Biggadike  | Mr. C.F. Fisher        | Mr. D.A. Tennant |
| Mr. C.J.T.H. Brewis | Mr. J. Goodley         | Mr. T.G.M. Tyler |
| Mr. N.I. Capes      | Mrs. E.O. Hall-Patch   | Mr. R.C. West    |
| Mr. J. Clark        | Mr. N.P. Judge, M.B.E. | Mr. M.C. White   |
| Mr. B.J. Davies     | Mr. A.E. Naylor        |                  |

The Director of Planning and Building Control Services, the Deputy Director of Administration and the Principal Environmental Health Officer.

In attendance: The Press.

An apology for absence was received from Councillor Mrs. P.J. Buffham.

99. **MINUTES**

The Minutes of the meeting held on 26th January, 1993 were signed by the Chairman as a correct record.

100. **PLANNING APPLICATIONS**

Consideration was given to the report of the Director of Planning and Building Control Services upon applications to be determined, including his recommendations, copies of which had previously been circulated to all members.

**RESOLVED:**

**(a) Applications Granted**

Planning permission be granted in respect of the following proposals in accordance with the recommendations of the Director of Planning and Building Control Services, as amended, where indicated:-

**Plan No. and Applicant**

**Proposal**

H11/1146/92  
Adderley House Ltd

Conversion of outbuilding to elderly persons day centre at Adderley House, London Road, Long Sutton.

(Subject to a note to the applicant requesting that consideration be given to providing additional car parking spaces for Adderley House and the original flats.)

H16/1291/92  
Live Promotions

O.A. Extend vehicular access and provide road/footpaths with car parking, provide shops and additional flats (renewal of permission H16/1568/89) at Winsover Road, Spalding.

H17/0017/93  
Mr & Mrs R M Brown

O.A. Replacement dwelling and demolition of existing at "Glenroyd", 42 Reservoir Road, Surfleet.

**BRIAN SMITH** Dip TP MRTPI  
Director of Planning & Building Control Services  
Planning & Building Control Department,  
Council Offices,  
Priory Road, Spalding,  
Lincolnshire. PE11 2XE  
Telephone: (0775) 761161  
Fax: (0775) 710772



## H16/0477/93

### CONDITION COMPLIANCE

Applicant: Live Promotions Ltd  
Tel:

Agent: A Roffe

Description: Engineers Report  
(Condition 10 of application  
H16/1291/92)

Location: Winsover Road  
Spalding  
Lincs

|                        |           |                   |           |
|------------------------|-----------|-------------------|-----------|
| Valid date:            | 21-MAY-93 | Terminal date:    | 16-JUL-93 |
| Target dates:          |           | Target Committee: | 13-JUL-93 |
| To case officer        | 28-MAY-93 | Report deadline:  | 29-JUN-93 |
| Inspected by           | 04-JUN-93 |                   |           |
| Extra contacts         | 11-JUN-93 | Case Officer:     |           |
| Report if not clear by | 25-JUN-93 | P J UDY           |           |

### DEVELOPMENT/CONSTRAINTS

Size:

Category:

Listed building:

Conservation Area:

Other Constraints:

### CONSULTATIONS CARRIED OUT

|                      | Sent      | Expiry    |
|----------------------|-----------|-----------|
| Dir of Environmental | 28-MAY-93 | 11-JUN-93 |

### SITE RECORD

Grid ref: 524380 322570

OS Sheet: 201

Parcel:

*200 - No obs JE CB 10/6/93*



1 Green Lane,  
SPALDING  
Lincs. PE11 2YB

17th February 1994

Development of site off  
Winsover Road, SPALDING.

*A. Koffe*

S.H.D.C. PLANNING DEPT.  
RECEIVED  
17 FEB 1964  
PU

cc Live Promotions.

Mr A Roffe  
1 Green Lane  
Spalding  
Lincolnshire  
PE11 2YB

P J Udy  
PJU/SJS  
H16/0477/93

25 January 1994

Dear Sir

Development of site off Winsover Road, Spalding  
- For Live Promotions Ltd

I write further to my letter of the 26 October 1993 to yourself and my letter of the 24 November 1993 to Live Promotions Ltd.

This application has now been submitted for 8 months during which there has been much correspondence on what the condition requires and whether the condition should have been placed on the planning permission.

Owing to the condition not requiring the discharge of it within any particular time frame, other than before development is commenced, I write to ask whether it would be acceptable to withdraw the current condition compliance application until you are in a position to submit sufficient detail to discharge the condition.

I look forward to your response within the next 14 days, after which if I receive no response I shall consider whether to non-determine the application or refuse it.

Yours faithfully



N R Midlen  
Principal Planning Officer  
(Development Control)

Live Promotions,  
The Mill Stone,  
St Thomas's Road,  
Spalding,  
Lincs.  
PE11 2XY.

Mr N Midlen

NRM/JJ H16/1291/92  
H16/477/93

10

24 Nov 1993

Dear Mr Ward,

SITE AT WINSOVER ROAD, SPALDING.

I thank you for your letter of the 1st November concerning the planning condition requiring a site investigation to be carried out on your site at Winsover Road to discover the degree of any ground contamination.

I am afraid that you and Mr Rotte must have misunderstood the Director of Environmental Services, who was only referring to the proposed Environmental Health Circulars relating to the setting up of a Register of Contaminated Land, and was not intending to comment on any planning advice. Indeed, you would hardly expect him to do so as it would be outside his professional field.

Mr Rotte is correct in his claim that the Circular relating to a Register of Contaminated Land has been, as he put it, "aborted". However, the Planning Circular 21/87, which deals with the development of contaminated land, and advises Planning Authorities and how to approach this, did achieve a successful birth on August 17th 1987 and remains "live". Copies should be available for a small charge from Her Majesty's Stationary Office. Under Paragraph 13 it advises that "where it is known or strongly suspected that the site is contaminated to an extent which would adversely affect the proposed development, an investigation by the developer to identify any remedial measures required to deal with the hazards will normally be required before the application can be decided by the Local Planning Authority." However under Paragraph 14 it states "where there is only a suspicion that the site might be contaminated or where the evidence suggests that there

is potentially only slight contamination. planning permission may be granted but conditions should be attached to make it clear that the development will not be permitted to start until a site investigation and assessment has been carried out, and that the development itself will need to incorporate all the measures shown in the assessment to be necessary." It was not felt that the contamination was sufficiently severe to insist upon an investigation before planning permission was granted, but the recommendations of the Circular have been carried out virtually to the letter, in imposing condition 10 of the planning permission.

Yours sincerely

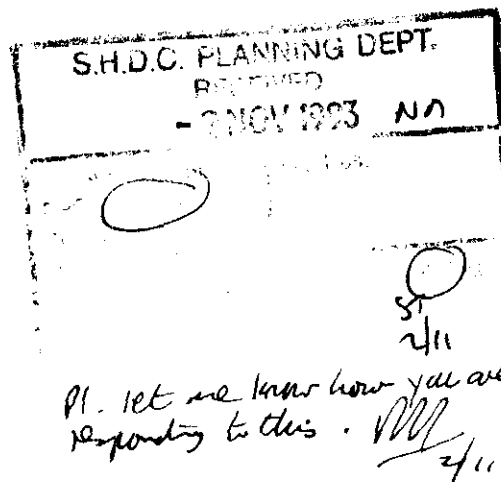
N Midlen  
Principal Planning Officer  
Development Control



*Award Winning Event Organisers  
Celebrating 21st Anniversary*

1 November 1993

Mr N R Midlen  
Principal Planning Officer  
Planning & Building  
Control Department  
South Holland District Council  
Priory Road  
SPALDING  
Lincs.  
PE11 2XE.



Dear Mr Midlen.

Ref: Planning Application H16/1291/92

Your letter dated 26th October and addressed to Mr A Roffe, has been passed on to me for comment.

I note your request for a response within 14 days. Please note, that I did write to you earlier in the year, stating that I had personally queried the situation with your Council's Director of Environmental Health. He then informed us that the condition mentioned in our Outline Planning Permission related to Central Government's initial proposals for regulations that would have required local authorities (i.e. S.H.D.C.) to set up and operate a register of contaminated land etc. The Director informed me that such proposals had been "aborted" and that the planning condition should therefore be removed. A copy of my letter to you is enclosed.

I have also been informed from other sources, that this is indeed the case and I enclose a page from a national publication confirming this to be so.

Furthermore, I clearly understood any such condition (if indeed it does apply) was only to be carried out before any development is commenced.

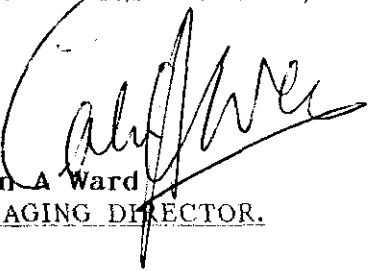
Cont../d

.../2

In view of the conflicting advice being given, I personally see no reason why we should be requested to comply with any regulation that does not exist.

I have therefore forwarded copies of the advice we have been given to our Solicitors for their advice and any appropriate action.

Yours sincerely  
LIVE PROMOTIONS LTD.,



Colin A Ward  
MANAGING DIRECTOR.

Enc..(s)

A Roffe  
1 Green Lane  
Spalding  
Lincolnshire  
PE11 2YB

P J Udy

PJU/SJS H16/0477/93

26 October 1993

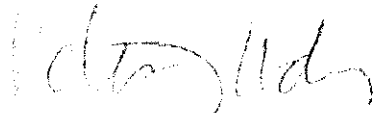
Dear Sir

Land at Winsover Road, Spalding - Compliance with Conditions

I refer to my letter, dated 23 August 1993, and write to enquire whether you have made any progress upon complying with Condition 10 on application H16/1291/92.

I look forward to your response in the next 14 days.

Yours faithfully



 N R Midlen  
Principal Planning Officer  
(Development Control)

A Roffe,  
1 Green Lane,  
Spalding,  
Lines.  
PE11 2YB.

Mr N Midlen

NRM/JJ H16/1291/92  
H16/477/93

23 Aug 1993

Dear Sir,

LAND AT WINSOVER ROAD, SPALDING - COMPLIANCE WITH CONDITIONS.

I thank you for your letter of 16th August, however I must advise you that, although the Government has indeed withdrawn many of the requirements it has been proposing to make on Environmental Health Departments there has been no change in planning advice. Consequently there is no question of my Authority being prepared to agree to the removal of the conditions.

Yours faithfully

N Midlen  
Principal Planning Officer  
Development Control

## EMPLOYMENT

### OWNER LIABLE FOR UNLAWFUL WORK ON HIS PREMISES

The owner of premises could be 'the person carrying out the work' within the meaning of regulation 14 (3) of the Buildings Regulations 1985/1065 if he had authorised and commissioned it. Regulation 14 did not apply solely to the person who physically carried out the work. So held the High Court in allowing an appeal by Blaenau Gwent Borough Council against a County Court adjudication that nothing in the regulations stated an owner of premises was to be deemed the person carrying out the work, merely by reason of his ownership. The Court held that the intention of law was to ensure the safe construction and design of buildings and the protection of the public; too restrictive an interpretation would defeat that intention.

*Blaenau Gwent Borough Council v Suhz Ali Khan, Queen's Bench Division, Judgment 21 April.*

## ENVIRONMENT

### WASTE MANAGEMENT LICENSING

The Waste Management Industry Training and Advisory Board (WAMITAB) has contracted with the Department of the Environment to complete a system for issuing certificates of technical competence for waste managers based on NVQs. The certificates will be an integral part of the waste management licensing regime under Part 11 of the Environmental Protection Act 1990 – implementation of the regime was first scheduled for 1 April, was then put back to 1 June (see BI 52 p 406) and has now been further postponed while technical questions arising from EC measures on waste management are taken into account. Advance information, which has been published by the Department of Environment to allow waste managers, regulators and WAMITAB to prepare for the technical competence requirements, includes transitional provisions for existing waste managers, who will not be subject to a retrospective test of competence if they held existing licences at 1 June 1993.

### COMMERCIAL LEASES

Following the controversy over the proposed introduction of new powers for residential leaseholders under the Leasehold Reform, Housing and Urban Development Bill, the government has now turned its attention to some of the more contentious aspects of commercial leases. A Department of Environment consultation paper is seeking views on: – upward-only rent reviews, which critics say are inflationary, expose tenants to unnecessary risks and lead to more insolvencies; confidentiality clauses, which are used to keep agreements secret so that concessions granted to one tenant are not quoted against the landlord by another; dispute resolution procedures, which generally involve the appointment of a third party and are claimed by critics to be too slow and costly. Copies can be obtained from Miss S Hesketh, Room C14/13A, DoE, 2 Marsham Street, London SW1P 3EB; tel: 071 276 3898. Replies, by 30 September, to Mr A J Shelley, Room C14/15 (above address); tel: 071 276 3932.

### EMPTY OFFICES INTO HOUSES

With a surplus of offices and a shortage of houses, owners of vacant office sites and buildings could profitably look at the opportunities for converting them into flats or redeveloping sites as new housing, suggests Housing Minister, Sir George Young. The Department of Environment's Planning Policy Guidance Note 3, ISBN 0 11 752628 2, HMSO, £3.45, encourages local authorities to look sympathetically at such schemes.

### CONTAMINATED LAND REGISTER SCRAPPED

Proposals for regulations that would have required local authorities to set up and operate registers of contaminated land (see BI 48 p 374) have been scrapped. Instead, the Department of Environment is tackling the problem by reviewing the powers of regulatory public bodies to control and tackle land pollution.

### NOISE AND STATUTORY NUISANCE BILL

Local authorities would be given the powers to oblige owners of vehicle and burglar alarms to take action to reduce the nuisance they cause and to tackle noise in the street (eg loudspeakers) by a private member's bill that has completed its passage through the House of Commons and is now at the House of Lords.

*The Noise and Statutory Nuisance Bill (Hof. 101), ISBN 0 10 871013 0, HMSO, £4.50*

## EUROPEAN COMMUNITY

### GUIDE TO EC RESEARCH AND DEVELOPMENT

Detailed information on 25 individual programmes in the current EC "Framework Programme" of research activities are included in the new edition of a DTI guide designed to alert UK organisations to the benefits available from collaborative research within Europe. "Guide to EC Research and Development Programmes", which also contains general information on EC R & D, is available free from Claire Hacking, DTI's Research and Policy Division, Room 3/165, 151 Buckingham Palace Road, London SW1W 9SS; tel: 071 215 1613.

### GUIDE TO ONLINE COMPANY INFORMATION

A detailed table of 102 company information databases is one of the new features of the second edition of a guide designed to help users select the most cost-effective database before going online to search company information in Europe. "Instant guide to company information online – Europe" (ISBN 0712308032) also gives details of the coverage, language, contact details and special features available from each database. A set of tables, one for each of 16 countries and for pan-European databases, summarises the information coverage under 18 key headings. A country by country listing of company types and disclosure requirements is also included. Copies cost £35 from the Publication Sales Unit, The British Library, Boston Spa, Wetherby, West Yorks. LS23 7BQ; tel: 0937 546077.

### ACHTUNG – TRAILERS

With the holiday season upon us, drivers with trailers heading for Germany should note that, while there are no restrictions on German motorways for cars, there is an 80km/hr limit for cars with a trailer in tow!

## FARMING, FISHING & FOOD

### SAFETY IN CATERING

Some 7,000 accidents a year, including 900 involving major injuries, are reported to local authorities and HSE from the catering industry – and the real figure could be up to five times higher. This makes working in catering at least as risky as working in factories, according to the HSE's Food National Interest Group which has recently published the first in a series of free information sheets for the industry. "Safety pays in the catering industry" explains how businesses should prioritise health and safety management and develop a safety culture. Priorities to target include slips and trips; lifting and handling; contact with hot surfaces, steam and harmful substances; the longer term ill health problems such as dermatitis and musculoskeletal disorders.

Copies are available from the HSE Information Centre, Broad Lane, Sheffield S3 7HQ; tel: 0742 892345; fax: 0742 892333.

### SOFT DRINKS REGULATIONS

The requirement in the Soft Drinks Regulations 1964 and parallel regulations in Scotland for a minimum amount of sugar to be added during the manufacture of soft drinks have been revoked as from 1 June, leaving manufacturers free to decide for themselves whether or not it should be added. The Government has also decided not to introduce a maximum caffeine limit for soft drinks as there has been no reported adverse effects on young children since the introduction of high caffeine soft drinks. Such a restriction could not, in any case, apply to drinks imported from other EC countries. The Government has asked the Food Advisory Committee to review its 1988 recommendation on the need to introduce a maximum level of caffeine in soft drinks.

*The Soft Drinks (Amendment) Regulations 1993 / 1240, ISBN 0 11 034240 2, HMSO, £1.10.*

### CAMPAIGN TO REDUCE BACK INJURIES

A free information pack is spearheading a campaign by HSE's Agricultural Inspectorate to reduce the number of injuries caused by back injury and strain to employees in agriculture, forestry and horticulture. It also aims to increase awareness of the manual handling regulations which came into effect on 1 January (see BI 50 p 392). The pack includes a booklet – "Getting to grips with manual handling" – which gives advice on how to assess potential risks. 350,000 pocket cards giving guidance on manual handling will also be distributed through farming journals and at agricultural shows.

Copies of the pack, (INDIG143) are available from the Sir Robert Jones Memorial Workshops, Units 3 and 5-11, Grain Industrial Estate, Harlow St., Liverpool L8 4XY; tel: (freephone) 0800 500565.

# A. ROFFE

## BUILDING DESIGN AND PLANS

1 Green Lane,  
SPALDING  
Lincs. PE11 2YB

Tel: (0775) 723680

16th August 1993

Dear Sirs,

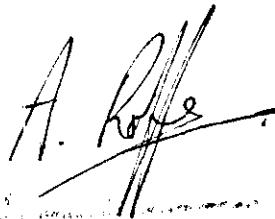
H16/1291/92 and H16/477/93 -  
Condition 10;  
Land, Winsover Road, SPALDING.

Further to your letter of the 30th June, we have today spoken to Mr Gordon Ridgeway, Director of Environmental Services regarding our planning application and in particular the requirements of Condition 10.

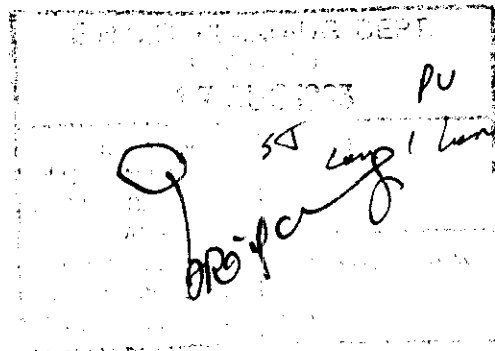
We are advised by Mr Ridgeway that the Government Circular relating to the condition in this planning application has now been "aborted" by Central Government and that the condition should now be removed from our Planning application.

We look forward to this now being removed as advised,

Yours faithfully



A. Roffe



South Holland District Council

c.c. Live Promotions

A Roffe,  
1 Green Lane,  
Spalding,  
Lincs.  
PE11 2RB.

Mr D Roberts

DJR/LI H16/477/93

30 Jun 1993

Dear Sir,

ENGINEERS REPORT - CONDITION 10 ON PREVIOUS APPLICATION REF:  
H16/1291/92 AT WINSOVER ROAD, SPALDING FOR LIVE PROMOTIONS.

Condition No 10 of the previous permission referred to a site investigation and assessment specifically aimed at ascertaining if and to what extent any ground contamination exists.

The report prepared by Soils Engineering Ltd does not specifically address this issue. Instead it appears to be solely confined to ground conditions in relation to design of foundations. As such therefore I regret that the report is insufficient to discharge the requirements of Condition No 10.

As a separate issue I note that the report relates to the construction of a showroom and building materials store. The outline permission did not however permit such development. Instead permission was granted for "extend vehicular access and provide road/footpaths with car parking, provide shops and additional flats".

In view of the matters raised I would welcome your advice on whether or not you wish me to proceed to a formal determination in respect of the current application. If you do, further information regarding contamination will be required. Alternatively you may wish to withdraw the application. I look forward to hearing from you.

Yours faithfully

  
N Midlen  
Principal Planning Officer  
Development Control

IAN SMITH Dip TP MRTPI  
Director of Planning & Building Control Services  
Planning & Building Control Department,  
Council Offices,  
Priory Road, Spalding,  
Lincolnshire. PE11 2XE  
Telephone: (0775) 761161  
Fax: (0775) 710772



Application no: H16/0477/93

Applicant: Live Promotions Ltd  
The Millstone  
9 St Thomas's Road  
Spalding  
Lincs

Agent: A Roffe  
1 Green Lane  
Spalding  
Lincs

Description: Engineers Report (Condition 10 of application  
H16/1291/92)

Location: Winsover Road Spalding  
Lincs

Type: CONDITION COMPLIANCE

28-MAY-93

Dear Sir/Madam,

#### CONSULTATION ON PLANNING APPLICATION

I have received an application for the above proposal, and should be pleased to receive any observations you may wish to make.

Your comments should be sent to me by 11-JUN-93 quoting the above reference number. Please note that I cannot guarantee confidentiality as your comments to be taken into account may need to be reported to Planning Committee and therefore be available for public inspection.

Should you need to contact the department, the officer dealing with this application is P J UDY

Yours faithfully

B SMITH

Director of Planning and Building Control Services

B Stuckey  
Building Control.

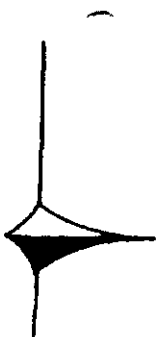
Saw B. Stuckey on 18-6  
Poss probs with contamination  
has old foundation does not  
seem to be relevant.

Having read the Engineer's Report  
there appears to be no adverse  
problems other than to recognise the  
limitation as far as the ground bearing  
capacity is concerned. Consideration also  
needs to be given to the fill on the site.

SEE FILE FOR

DETAILS / PLANS

ONLY ONE COPY!



**A. ROFFE**

**BUILDING DESIGN AND PLANS**

1 Green Lane,  
SPALDING  
Lincs. PE11 2YB

Tel: (0775) 723680

04/7/93

21 st May 1993

Dear Sirs,

Development of site,  
off Winsover Road, SPALDING,  
for Live Promotions Limited.

In accordance with condition 10 of the Outline Planning Permission for the above development (H16/1291/92), we enclose a copy of the structural engineers report and findings for the whole site. Only part of the site involved the old foundry, boreholes 3 and 4 directly relate to this,

Yours faithfully



A. Roffe.

PROPOSED DEVELOPMENT OF  
SITE OFF  
WINSOVER ROAD, SPALDING.

for Live Promotions Ltd.

### SUMMARY

Four boreholes sunk in connection with the proposed construction of a store, showroom and office premises at Mill Lane, Spalding met a fairly uniform sequence of strata. These consisted of firm silts resting on loose silt and sand which was in turn followed by medium dense medium to fine sand.

Square bases upto 1.2 m wide founded in the firm silt may be designed to a net safe bearing pressure of 135 kN/m<sup>2</sup>. For strip footings this will need to be reduced to 55 kN/m<sup>2</sup>.

If these values are inadequate then piles to the medium dense sand will be necessary.

No special precautions are necessary to ensure the durability of buried concrete construction.

W.A. JEPSON LTD.

REPORT ON SITE INVESTIGATION FOR PROPOSED  
STORE, SHOWROOM AND OFFICES AT  
WINSOVER ROAD, SPALDING, LINCOLNSHIRE.

Reference: C/1575

April 1977.

INTRODUCTION

Messrs. W.A. Jepson Limited propose to construct a showroom and building materials store at Winsover Road, Spalding. The showroom will front onto Winsover Road with office accommodation forming the first and second floors. To the rear of the showroom will be a single storey building materials store. The offices and showroom will comprise a 2 storey steel portal framed structure with the store being a single storey portal frame 5.5 m to the eaves.

A site investigation was carried out to the instructions of Messrs. Poddington Designs, Design Consultants for the proposed development, in order to obtain information on the ground conditions in relation to the design of foundations.

LOCATION, TOPOGRAPHY AND GEOLOGY OF THE SITE

The site is situated approximately  $\frac{1}{2}$  kilometre south west of Spalding town centre at National Grid Reference TF 244 225 $\frac{1}{2}$ .

At the time of the investigation the site consisted of a level hardstanding area which was being used for vehicle parking.

Published geological records of the area indicate the site to be underlain by considerable thicknesses of Fen Deposits overlying Glacial Boulder Clay. The Fen Deposits generally consist of soft clays and silts resting on fine marine sands.

#### SITE WORK

On the 16th and 17th March 1977, four boreholes were sunk using shell and clay cutter boring techniques at the positions as shown on the appended site plan. The boreholes, 150 mm in diameter were terminated at depths ranging from 10 m to 15 m below existing ground level.

Representative disturbed samples were taken from the boring tools at frequent intervals throughout the depth of each borehole and water samples were taken as soon as sufficient water had entered the boreholes.

Undisturbed samples 100 mm in diameter were taken on recognising a sufficiently cohesive stratum and thereafter at intervals of approximately 1.5 m of depth within the stratum. The ends of the samples were waxed to maintain them in as representative condition as possible during transit to the laboratory.

Standard penetration tests were performed in the granular soils encountered in order to assess the relative density of these materials. The test consisted of driving a split spoon sampler, 50 mm diameter and 35 mm bore, into the soil at the base of the borehole by means of an automatic trip hammer having a mass of 63.5 kg and falling freely through 760 mm. The penetration resistance was determined as the number of standard blows required to drive the tool the final 300 mm of a total penetration of 450 mm into the soil ahead of the borehole.

The depths at which the samples were recovered are given on the borehole records which show, in addition, detailed information regarding the strata encountered, results of the in situ tests and the groundwater conditions observed during boring.

#### LABORATORY WORK

All the samples recovered from the boreholes were inspected in the laboratory and assessments of the soil characteristics have been taken into account during preparation of the borehole records.

Immediate undrained triaxial compression tests were performed on selected undisturbed samples in order to determine their shear strength characteristics. Test specimens, 38 mm diameter by 76 mm long, were prepared from the undisturbed samples and submitted to cell pressures of 100, 200 and 400 kN/m<sup>2</sup> during testing. The bulk densities and moisture contents of the samples were also determined.

Sieve analyses were carried out on selected samples of the granular soils encountered in order to determine the proportions of sand and silt present. The results of these tests are presented graphically on the appended particle size distribution sheets.

The amount of soluble sulphate present in selected samples of groundwater recovered from the boreholes was determined by gravimetric analysis with the pH values being determined electrometrically.

#### GROUND CONDITIONS

An examination of the borehole records and the longitudinal section through the site shows a fairly uniform sequence of strata to be present at the positions investigated. These consisted of firm silts resting on loose silt and sand which was in turn

followed by medium dense medium to fine sand.

Made ground was met at all of the positions to a maximum depth of 1.5 m and generally consisted of ash and brick rubble. In boreholes 1, 2 and 3 it was necessary to use a heavy chisel to commence the borehole in these materials.

Following the made ground was grey and brown mottled clayey sandy silt which was found to be of firm consistency. This continued to depths of between 3.5 m and 3.8 m where it merged into grey silt and fine sand. The results of the in situ penetration tests showed this to be in a very loose to loose state of compaction. Below a depth of 6 m in borehole 4 this became a medium dense grey silty fine sand.

The above strata are typical of the Fen Deposits of this area and extended to depths of between 6 m and 8 m below existing ground level. At these depths the boreholes entered medium dense brown medium to fine sand with traces of shell fragments. This was representative of the marine sands which underlie the Fen Deposits. All of the boreholes were terminated still in the presumed marine sands at depths varying between 10 m and 15 m.

Groundwater was met in all of the boreholes at depths varying between 4.5 m and 10 m below existing ground level. Standing water levels of between 2 m and 3 m were recorded in the boreholes on withdrawal of the lining tubes on completion of boring operations.

#### COMMENTS ON THE GROUND CONDITIONS IN RELATION TO FOUNDATION DESIGN

The investigation has shown the site to be covered by upto 1.5 m of made ground. This consisted generally of ash and brick rubble with some clay being noted in borehole 4. It is

suggested that this material be discounted as a foundation horizon and consequently foundations could be placed in the naturally occurring clayey sandy silt.

The results of the laboratory tests show this material to have considerable frictional properties with angles of internal friction ranging from 13 degrees to 35 degrees being recorded. By plotting all of the results on a single Mohr's circle an average result of 30 degrees has been achieved with the cohesion intercept being zero. In view of the above this material has been taken to act as a cohesionless soil for the purpose of foundation design.

Using the above assumption the net allowable bearing pressure for footings upto 1.2 m wide is estimated to be of the order of 125 kN/m<sup>2</sup>.

At this loading square bases upto 1.2 m would not be expected to overstress the loose silt and sand met at a depth of approximately 3.5 m. Also, settlement of this type of foundation would not be expected to exceed 25 mm with the maximum differential settlement being 19 mm.

Long strip footings, however, at this loading and 1.2 m wide would be expected to overstress the loose silt and sand resulting in excessive settlement. Therefore, the loading on strip footings if used should be reduced to 55 kN/m<sup>2</sup> to restrict settlement to a tolerable order.

The base of foundation excavations should be inspected on completion to ensure that the condition of the soil complies with that assumed in design and should pockets of inferior material be present, they should be removed and replaced with well compacted hardcore or lean concrete. The excavated surface should be protected from deterioration and a blinding layer of concrete used

where foundations are not completed without delay.

If the above values of bearing capacity prove to be insufficient for the structures proposed then it will be necessary to transfer foundation loads to the medium dense sand, met at depths of 6 m and 8 m, by means of piles.

The ground conditions would appear to favour the use of driven piles since difficulty might be met in obtaining satisfactory formation of bored piles in the loose blowing sands and silt. However, in view of the close proximity of existing structures it may be prudent to use bored piles in order to minimize the effect of vibration and subsequent damage.

It is difficult to predict the precise pile bearing properties of the strata encountered since they depend to a large extent on how much loosening of the soil structure is likely to occur during construction of bored piles or alternatively, how much more dense the sand becomes after piles have been driven into it. The performance of piles will depend on their size, type and method of installation and it is recommended that more precise information and assurance on suitability and safe working loads should be obtained before construction is commenced from specialist contractors familiar with working in the area. It may be prudent to prove the performance of selected piles by test loading.

Driven piles should achieve the sets necessary for development of their full working load after modest penetration of the medium dense sand met between 6 m and 8 m below existing ground level. However, it should be pointed out that the penetration necessary is largely dependant on the spacing.

The ultimate design load on an isolated bored pile may be estimated for preliminary design and comparative cost purposes using the pile bearing coefficients given below which are based

on the following assumptions:-

1. The ultimate load on a pile would be the sum of the side friction acting on the pile together with the end bearing load.
2. The side friction and end bearing developed in the granular soils would be functions of their in situ relative density assuming that no loosening of the material would occur during pile construction.
3. A factor of safety of at least 2 would be used to assess the working load and, if test loading of selected piles were not practical, the factor of safety would be increased to at least 2.5.

| Item                                              | Ultimate Pile Bearing Value<br>kN/m <sup>2</sup> |
|---------------------------------------------------|--------------------------------------------------|
| Side friction in made ground                      | Nil                                              |
| Side friction in firm, clayey<br>sandy silt       | 20                                               |
| Side friction in loose grey silt<br>and fine sand | 10                                               |
| Side friction in medium dense<br>brown sand       | 50                                               |
| End bearing in medium dense<br>brown sand         | 1450                                             |

Using these coefficients it is estimated that a 455 mm diameter bored pile, 10 m long near borehole 2 should have a working load of the order of 245 kN.

Groundwater was met at depths of between 4.5 m and 10 m with standing water levels of between 2 m and 3 m being recorded on completion of boring. This is not expected to present any undue problems during placing of shallow based foundations and any surface seepages are likely to be capable of being dealt with by pumping from open sumps.

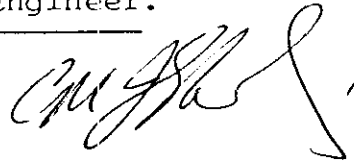
If bored piled foundations are used it will be necessary to place concrete beneath the water table using a tremie pipe. Also during formation of bored piles it will be necessary to ensure that a sufficient head of water is maintained in the pile hole to prevent 'boiling' of the fine sands.

The result of the sulphate analyses of selected water samples indicated the presence of low concentrations of soluble sulphate with the result falling within Class 1 of Table 11 given in CP2004:1972. For such a classification no special precautions are necessary to ensure the durability of buried concrete construction.

SOILS ENGINEERING LIMITED.



P. Richards.  
Engineer.



K.M. Pare.  
Managing Director.

RECORD OF BOREHOLE 1 MILL LANE, SPALDING.

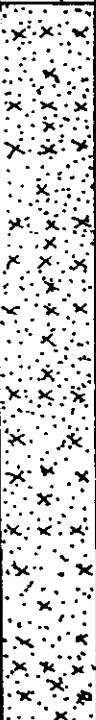
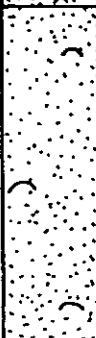
BORING: STARTED 17.3.77.

BORING: FINISHED 17.3.77.

HOLE SIZE 150 mm dia. to 15.0 m depth.

GROUND LEVEL

O.D.

| SAMPLE OR TEST |       | CHANGE OF STRATA                                                                    |       |            |                                                                        |
|----------------|-------|-------------------------------------------------------------------------------------|-------|------------|------------------------------------------------------------------------|
| DEPTH          | TYPE  | LEGEND                                                                              | DEPTH | O.D. LEVEL | DESCRIPTION                                                            |
| 0.50           | D1    |    | 1.35  |            | MADE GROUND (brick rubble, clay and ash).                              |
| 0.90 - 1.20    | C(36) |                                                                                     |       |            |                                                                        |
| 1.50           | D2    |    | 3.75  |            | Firm brown and grey mottled clayey sandy SILT.                         |
| 1.50 - 1.95    | U(4)1 |                                                                                     |       |            |                                                                        |
| 2.0            | D3    |                                                                                     |       |            |                                                                        |
| 2.50           | D4    |                                                                                     |       |            |                                                                        |
| 3.0 - 3.45     | U(4)2 |                                                                                     |       |            |                                                                        |
| 3.50           | D5    |                                                                                     |       |            |                                                                        |
| 4.0            | D6    |   | 8.00  |            | Very loose to loose grey SILT and fine SAND.                           |
| 4.50 - 4.95    | S(2)  |                                                                                     |       |            |                                                                        |
| 5.0 - 5.45     | S(3)  |                                                                                     |       |            |                                                                        |
| 5.50 - 6.50    | B1    |                                                                                     |       |            |                                                                        |
| 5.50           | D7    |                                                                                     |       |            |                                                                        |
| 5.65 - 5.95    | S(13) |                                                                                     |       |            |                                                                        |
| 6.65 - 6.95    | S(7)  |                                                                                     |       |            |                                                                        |
| 7.15 - 7.45    | S(10) |                                                                                     |       |            |                                                                        |
| 7.50           | W1    |                                                                                     |       |            |                                                                        |
| 7.50           | D8    |                                                                                     |       |            |                                                                        |
| 7.65 - 7.95    | S(10) |                                                                                     |       |            |                                                                        |
| 9.0 - 9.50     | B2    |  |       |            | Medium dense brown medium to fine SAND with a trace of shell fragment. |
| 9.15 - 9.45    | S(16) |                                                                                     |       |            |                                                                        |
| 9.50           | D9    |                                                                                     |       |            |                                                                        |

REMARKS Groundwater was met at a depth of 7.5 m and again at 10 m.  
Water stood at 3.0 m on completion of boring.  
Chiselling GL - 0.6 m -  $\frac{3}{4}$  hr.

KEY: D - DISTURBED SAMPLE      S ( ) STANDARD PENETRATION TEST  
B - BULK DISTURBED SAMPLE    C ( ) CONE PENETRATION TEST  
W - WATER SAMPLE              NO. OF BLOWS FOR 300 mm  
U - UNDISTURBED SAMPLE       PENETRATION IN BRACKETS

RECORD OF BOREHOLE 1 (cont), MILL LANE, SPALDING.

BORING: STARTED 17.3.77.  
 BORING: FINISHED 17.3.77.  
 HOLE SIZE 150 mm dia. to 15.0 m depth.

GROUND LEVEL

O.D.

| SAMPLE OR TEST                 |                    | CHANGE OF STRATA                                                                   |       |            |                                                                        |
|--------------------------------|--------------------|------------------------------------------------------------------------------------|-------|------------|------------------------------------------------------------------------|
| DEPTH                          | TYPE               | LEGEND                                                                             | DEPTH | O.D. LEVEL | DESCRIPTION                                                            |
| 10.15 - 10.45<br>10.0<br>10.50 | S(19)<br>W2<br>D10 |   |       |            | Medium dense brown medium to fine SAND with a trace of shell fragment. |
| 12.15 - 12.45                  | S(24)              |   |       |            |                                                                        |
| 12.50<br>12.50 - 13.50         | D11<br>B3          |   |       |            |                                                                        |
| 13.40 - 13.70                  | S(29)              |   |       |            |                                                                        |
| 14.65 - 14.95                  | S(29)              |  |       |            |                                                                        |
| 15.0                           | D12                |                                                                                    | 15.00 |            |                                                                        |

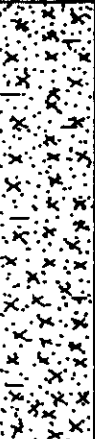
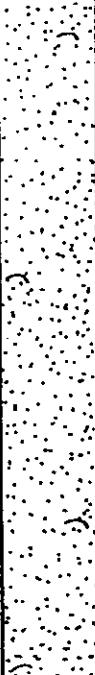
REMARKS

KEY: D - DISTURBED SAMPLE      S ( ) STANDARD PENETRATION TEST  
 B - BULK DISTURBED SAMPLE    C ( ) CONE PENETRATION TEST  
 W - WATER SAMPLE              NO. OF BLOWS FOR 300 mm  
 U - UNDISTURBED SAMPLE       PENETRATION IN BRACKETS

**RECORD OF BOREHOLE 2 MILL LANE, SPALDING.**

 BORING: STARTED 16.3.77.  
 BORING: FINISHED 16.3.77.  
 HOLE SIZE 150 mm dia. to 10.0 m depth.

GROUND LEVEL O.D.

| SAMPLE OR TEST                                                                                                                                                                                                                                 |       | CHANGE OF STRATA                                                                    |       |            |                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|-------|------------|-------------------------------------------------------------------------|
| DEPTH                                                                                                                                                                                                                                          | TYPE  | LEGEND                                                                              | DEPTH | O.D. LEVEL | DESCRIPTION                                                             |
| 0.50                                                                                                                                                                                                                                           | D1    |    |       |            | MADE GROUND (ash and brick rubble).                                     |
| 0.90 - 1.20                                                                                                                                                                                                                                    | S(21) |                                                                                     | 1.20  |            |                                                                         |
| 1.35                                                                                                                                                                                                                                           | D2    |    |       |            | Firm brown and grey mottled clayey, sandy SILT with organic traces.     |
| 1.40 - 1.85                                                                                                                                                                                                                                    | U(4)1 |                                                                                     |       |            |                                                                         |
| 1.90                                                                                                                                                                                                                                           | D3    |                                                                                     |       |            |                                                                         |
| 2.25                                                                                                                                                                                                                                           | D4    |                                                                                     |       |            |                                                                         |
| 2.50 - 2.95                                                                                                                                                                                                                                    | U(4)2 |                                                                                     |       |            |                                                                         |
| 3.0 - 3.50                                                                                                                                                                                                                                     | B1    |                                                                                     |       |            |                                                                         |
| 3.50 - 3.95                                                                                                                                                                                                                                    | U(4)3 |                                                                                     | 3.80  |            |                                                                         |
| 4.0                                                                                                                                                                                                                                            | D5    |   |       |            | Very loose to loose grey SILT and fine SAND.                            |
| 4.50                                                                                                                                                                                                                                           | W1    |                                                                                     |       |            |                                                                         |
| 4.65 - 4.80                                                                                                                                                                                                                                    | S(2)  |                                                                                     |       |            |                                                                         |
| 5.0 - 5.45                                                                                                                                                                                                                                     | S(2)  |                                                                                     |       |            |                                                                         |
| 5.0 - 5.50                                                                                                                                                                                                                                     | B2    |                                                                                     |       |            |                                                                         |
| 5.65 - 5.95                                                                                                                                                                                                                                    | S(8)  |                                                                                     | 6.00  |            |                                                                         |
| 6.65 - 6.95                                                                                                                                                                                                                                    | S(11) |  |       |            | Medium dense brown medium to fine SAND with a trace of shell fragments. |
| 7.0                                                                                                                                                                                                                                            | D6    |                                                                                     |       |            |                                                                         |
| 8.15 - 8.45                                                                                                                                                                                                                                    | S(25) |                                                                                     |       |            |                                                                         |
| 8.0                                                                                                                                                                                                                                            | W2    |                                                                                     |       |            |                                                                         |
| 8.50                                                                                                                                                                                                                                           | D7    |                                                                                     |       |            |                                                                         |
| 8.50 - 9.00                                                                                                                                                                                                                                    | B3    |                                                                                     |       |            |                                                                         |
| 9.65 - 9.95                                                                                                                                                                                                                                    | S(28) |                                                                                     |       |            |                                                                         |
| 10.0                                                                                                                                                                                                                                           | D8    |                                                                                     | 10.00 |            |                                                                         |
| REMARKS Groundwater was met at a depth of 4.5 m and again at 8 m.<br>Water stood at 2.0 m on completion of boring.<br>Chiselling GL - 0.6 m - 3/4 hr.                                                                                          |       |                                                                                     |       |            |                                                                         |
| KEY: D - DISTURBED SAMPLE      S ( ) STANDARD PENETRATION TEST<br>B - BULK DISTURBED SAMPLE    C ( ) CONE PENETRATION TEST<br>W - WATER SAMPLE                NO. OF BLOWS FOR 300 mm<br>U - UNDISTURBED SAMPLE        PENETRATION IN BRACKETS |       |                                                                                     |       |            |                                                                         |

RECORD OF BOREHOLE 3 MILL LANE, SPALDING.

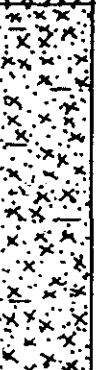
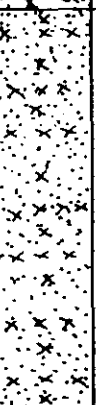
BORING: STARTED 17.3.77.

BORING: FINISHED 17.3.77.

HOLE SIZE 150 mm dia. to 12.50 m depth.

GROUND LEVEL

O.D.

| SAMPLE OR TEST                                                                                                                                                                                                                                 |       | CHANGE OF STRATA                                                                    |       |            |                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|-------|------------|-------------------------------------------------------------------------|
| DEPTH                                                                                                                                                                                                                                          | TYPE  | LEGEND                                                                              | DEPTH | O.D. LEVEL | DESCRIPTION                                                             |
| 0.50                                                                                                                                                                                                                                           | D1    |    | 1.35  |            | MADE GROUND (ash, brick rubble and clay).                               |
| 0.90 - 1.20                                                                                                                                                                                                                                    | C(36) |                                                                                     |       |            |                                                                         |
| 1.35                                                                                                                                                                                                                                           | D2    |    | 3.50  |            | Firm brown and grey mottled clayey sandy SILT.                          |
| 1.50 - 1.95                                                                                                                                                                                                                                    | U(4)1 |                                                                                     |       |            |                                                                         |
| 2.0                                                                                                                                                                                                                                            | D3    |                                                                                     |       |            |                                                                         |
| 2.50 - 2.95                                                                                                                                                                                                                                    | U(4)2 |                                                                                     |       |            |                                                                         |
| 3.0                                                                                                                                                                                                                                            | D4    |                                                                                     |       |            |                                                                         |
| 3.0 - 3.50                                                                                                                                                                                                                                     | B1    |   | 6.00  |            | Very loose to loose grey SILT and fine SAND.                            |
| 3.50 - 3.65                                                                                                                                                                                                                                    | S(3)  |                                                                                     |       |            |                                                                         |
| 4.0 - 4.45                                                                                                                                                                                                                                     | S(3)  |                                                                                     |       |            |                                                                         |
| 4.65 - 4.95                                                                                                                                                                                                                                    | S(6)  |                                                                                     |       |            |                                                                         |
| 4.80                                                                                                                                                                                                                                           | W1    |                                                                                     |       |            |                                                                         |
| 5.0                                                                                                                                                                                                                                            | D5    |  |       |            | Medium dense brown medium to fine SAND with a trace of shell fragments. |
| 5.0 - 6.0                                                                                                                                                                                                                                      | B2    |                                                                                     |       |            |                                                                         |
| 6.15 - 6.45                                                                                                                                                                                                                                    | S(14) |                                                                                     |       |            |                                                                         |
| 6.0 - 6.50                                                                                                                                                                                                                                     | B3    |                                                                                     |       |            |                                                                         |
| 7.15 - 7.45                                                                                                                                                                                                                                    | S(16) |                                                                                     |       |            |                                                                         |
| 7.50                                                                                                                                                                                                                                           | D6    |  |       |            |                                                                         |
| 7.50                                                                                                                                                                                                                                           | W2    |                                                                                     |       |            |                                                                         |
| 8.65 - 8.95                                                                                                                                                                                                                                    | S(23) |                                                                                     |       |            |                                                                         |
| 9.0                                                                                                                                                                                                                                            | D7    |                                                                                     |       |            |                                                                         |
|                                                                                                                                                                                                                                                |       |                                                                                     |       |            |                                                                         |
| REMARKS      Groundwater was met at a depth of 4.8 m and again at 7.5 m.<br>Water stood at 2 m on completion of boring.<br>Chiselling GL - 0.5 m - ½ hr.                                                                                       |       |                                                                                     |       |            |                                                                         |
| KEY: D - DISTURBED SAMPLE      S ( ) STANDARD PENETRATION TEST<br>B - BULK DISTURBED SAMPLE    C ( ) CONE PENETRATION TEST<br>W - WATER SAMPLE                NO. OF BLOWS FOR 300 mm<br>U - UNDISTURBED SAMPLE        PENETRATION IN BRACKETS |       |                                                                                     |       |            |                                                                         |

RECORD OF BOREHOLE 3 (cont). MILL LANE, SPALDING.

BORING: STARTED 17.3.77.

BORING: FINISHED 17.3.77.

GROUND LEVEL

O.D.

HOLE SIZE 150 mm dia. to 12.50 m depth.

| SAMPLE OR TEST                                                                                                                                                                                                                                 |       | CHANGE OF STRATA                                                                  |       |            |                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------|-------|------------|-------------------------------------------------------------------------|
| DEPTH                                                                                                                                                                                                                                          | TYPE  | LEGEND                                                                            | DEPTH | O.D. LEVEL | DESCRIPTION                                                             |
| 11.0 - 12.0                                                                                                                                                                                                                                    | B4    |  |       |            | Medium dense brown medium to fine SAND with a trace of shell fragments. |
| 11.50 - 11.80                                                                                                                                                                                                                                  | S(25) |                                                                                   |       |            |                                                                         |
| 12.15 - 12.45                                                                                                                                                                                                                                  | S(24) |                                                                                   |       |            |                                                                         |
| 12.50                                                                                                                                                                                                                                          | D8    |                                                                                   | 12.50 |            |                                                                         |
| REMARKS                                                                                                                                                                                                                                        |       |                                                                                   |       |            |                                                                         |
| KEY: D — DISTURBED SAMPLE      S ( ) STANDARD PENETRATION TEST<br>B — BULK DISTURBED SAMPLE    C ( ) CONE PENETRATION TEST<br>W — WATER SAMPLE                NO. OF BLOWS FOR 300 mm<br>U — UNDISTURBED SAMPLE        PENETRATION IN BRACKETS |       |                                                                                   |       |            |                                                                         |

RECORD OF BOREHOLE 4 MILL LANE, SPALDING.

BORING: STARTED 16.3.77.

BORING: FINISHED 16.3.77.

GROUND LEVEL

O.D.

HOLE SIZE 150 mm dia. to 12.50 m depth.

| SAMPLE OR TEST                                                                                                                                                                                                                                               |       | CHANGE OF STRATA                                                                    |       |            |                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|-------|------------|--------------------------------------------------------------------------------|
| DEPTH                                                                                                                                                                                                                                                        | TYPE  | LEGEND                                                                              | DEPTH | O.D. LEVEL | DESCRIPTION                                                                    |
| 0.35                                                                                                                                                                                                                                                         | D1    |    | 0.50  |            | MADE GROUND (ash and brick rubble).                                            |
| 1.0                                                                                                                                                                                                                                                          | D2    |    | 1.50  |            | MADE GROUND (firm brown and black silty clay with gravel and brick fragments). |
| 1.35 - 1.80                                                                                                                                                                                                                                                  | U(4)1 |    |       |            | Firm brown and grey mottled clayey sandy SILT.                                 |
| 1.85                                                                                                                                                                                                                                                         | D3    |    |       |            |                                                                                |
| 2.50                                                                                                                                                                                                                                                         | D4    |    |       |            |                                                                                |
| 3.0 - 3.45                                                                                                                                                                                                                                                   | U(4)2 |    | 3.50  |            |                                                                                |
| 3.50                                                                                                                                                                                                                                                         | D5    |    |       |            | Very loose grey SILT and fine SAND.                                            |
| 4.0                                                                                                                                                                                                                                                          | D6    |    |       |            |                                                                                |
| 4.50 - 4.95                                                                                                                                                                                                                                                  | S(1)  |    |       |            |                                                                                |
| 4.50 - 5.00                                                                                                                                                                                                                                                  | B1    |    |       |            |                                                                                |
| 4.50                                                                                                                                                                                                                                                         | W1    |    |       |            |                                                                                |
| 5.00 - 5.45                                                                                                                                                                                                                                                  | S(2)  |   |       |            |                                                                                |
| 5.50 - 5.95                                                                                                                                                                                                                                                  | S(4)  |  | 6.00  |            | Medium dense grey silty fine SAND.                                             |
| 6.15 - 6.45                                                                                                                                                                                                                                                  | S(17) |  |       |            |                                                                                |
| 6.0                                                                                                                                                                                                                                                          | D7    |  |       |            |                                                                                |
| 6.70 - 7.00                                                                                                                                                                                                                                                  | B2    |  |       |            |                                                                                |
| 7.65 - 7.95                                                                                                                                                                                                                                                  | S(12) |  | 7.50  |            | Medium dense brown medium to fine SAND with a trace of shell fragments.        |
| 8.15 - 8.45                                                                                                                                                                                                                                                  | S(30) |  |       |            |                                                                                |
| 8.0                                                                                                                                                                                                                                                          | W2    |  |       |            |                                                                                |
| 8.50                                                                                                                                                                                                                                                         | D8    |  |       |            |                                                                                |
| 9.65 - 9.95                                                                                                                                                                                                                                                  | S(30) |  |       |            |                                                                                |
| <p>REMARKS Groundwater was met at a depth of 4.5 m and again at 7.5 m.<br/>Water stood at 2 m on completion of boring.<br/>'Blowing' of the sand below 6 m was noted.</p>                                                                                    |       |                                                                                     |       |            |                                                                                |
| <p>KEY: D - DISTURBED SAMPLE      S ( ) STANDARD PENETRATION TEST<br/> B - BULK DISTURBED SAMPLE    C ( ) CONE PENETRATION TEST<br/> W - WATER SAMPLE                NO. OF BLOWS FOR 300 mm<br/> U - UNDISTURBED SAMPLE        PENETRATION IN BRACKET'S</p> |       |                                                                                     |       |            |                                                                                |

RECORD OF BOREHOLE 4 (cont). MILL LANE, SPALDING.

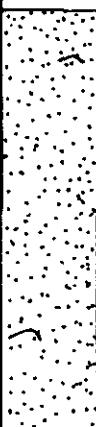
BORING: STARTED 16.3.77.

BORING: FINISHED 16.3.77.

GROUND LEVEL

O.D.

HOLE SIZE 150 mm dia. to 12.50 m depth.

| SAMPLE OR TEST                                                                                                                                                                                                                                                                   |       | CHANGE OF STRATA                                                                  |       |            |                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------|-------|------------|-------------------------------------------------------------------------|
| DEPTH                                                                                                                                                                                                                                                                            | TYPE  | LEGEND                                                                            | DEPTH | O.D. LEVEL | DESCRIPTION                                                             |
| 10.0                                                                                                                                                                                                                                                                             | D9    |  |       |            | Medium dense brown medium to fine SAND with a trace of shell fragments. |
| 10.0 - 11.0                                                                                                                                                                                                                                                                      | B3    |                                                                                   |       |            |                                                                         |
| 10.90 - 11.20                                                                                                                                                                                                                                                                    | S(33) |                                                                                   |       |            |                                                                         |
| 12.20 - 12.50                                                                                                                                                                                                                                                                    | S(34) |                                                                                   |       |            |                                                                         |
| 12.50                                                                                                                                                                                                                                                                            | D10   |                                                                                   | 12.50 |            |                                                                         |
| REMARKS                                                                                                                                                                                                                                                                          |       |                                                                                   |       |            |                                                                         |
| <p>KEY: D - DISTURBED SAMPLE      S ( ) STANDARD PENETRATION TEST</p> <p>     B - BULK DISTURBED SAMPLE    C ( ) CONE PENETRATION TEST</p> <p>     W - WATER SAMPLE                NO. OF BLOWS FOR 300 mm</p> <p>     U - UNDISTURBED SAMPLE        PENETRATION IN BRACKETS</p> |       |                                                                                   |       |            |                                                                         |

# SUMMARY OF LABORATORY TEST RESULTS

CONTRACT MILL LAKE, SPALDING.

| BORE HOLE | SAMPLE | DEPTH<br>m     | S.G. | INDEX PROPERTIES |           |                |                      | DENSITY                   |                          | TRIAxIAL COMPRESSION |                                                        |                                     |                        |    |                                         | SULPHATES                                         |    |  |  |
|-----------|--------|----------------|------|------------------|-----------|----------------|----------------------|---------------------------|--------------------------|----------------------|--------------------------------------------------------|-------------------------------------|------------------------|----|-----------------------------------------|---------------------------------------------------|----|--|--|
|           |        |                |      | L.L.<br>%        | P.L.<br>% | P.I.<br>%      | M.C.<br>%            | BULK<br>kg/m <sup>3</sup> | DRY<br>kg/m <sup>3</sup> | TYPE                 | (σ <sub>1</sub> -σ <sub>3</sub> )<br>kN/m <sup>2</sup> | σ <sub>3</sub><br>kN/m <sup>2</sup> | c<br>kN/m <sup>2</sup> | φ° | SO <sub>3</sub><br>in soil<br>% dry wt. | SO <sub>3</sub><br>in water<br>pp/10 <sup>5</sup> | pH |  |  |
|           |        |                |      |                  |           |                |                      |                           |                          |                      |                                                        |                                     |                        |    |                                         |                                                   |    |  |  |
| 1         | U(4)1  | 1.50 -<br>1.95 |      |                  |           | 27<br>26<br>27 | 1870<br>1850<br>1895 | 1475<br>1470<br>1495      | Q                        | 263<br>599<br>978    | 100<br>200<br>400                                      | 20                                  | 33                     |    |                                         |                                                   |    |  |  |
| 2         | U(4)2  | 3.00 -<br>3.45 |      |                  |           | 31<br>29<br>28 | 1945<br>1920<br>1930 | 1485<br>1480<br>1500      | Q                        | 423<br>643<br>1060   | 100<br>200<br>400                                      | 70                                  | 30                     |    |                                         |                                                   |    |  |  |
|           | Water  | 7.5            |      |                  |           |                |                      |                           |                          |                      |                                                        |                                     |                        | 25 |                                         | 7.7                                               |    |  |  |
|           | U(4)1  | 1.40 -<br>1.85 |      |                  |           | 30<br>29<br>29 | 1825<br>1860<br>1895 | 1410<br>1440<br>1470      | Q                        | 184<br>297<br>479    | 100<br>200<br>400                                      | 35                                  | 19                     |    |                                         |                                                   |    |  |  |
| 3         | U(4)2  | 2.50 -<br>2.95 |      |                  |           | 32<br>31<br>33 | 1875<br>1875<br>1905 | 1425<br>1430<br>1430      | Q                        | 512<br>884<br>870    | 100<br>200<br>400                                      | 378                                 | 0                      |    |                                         |                                                   |    |  |  |
|           | U(4)3  | 3.50 -<br>3.95 |      |                  |           | 15<br>18<br>15 | 1585<br>1610<br>1625 | 1390<br>1370<br>1415      | Q                        | 353<br>545<br>1000   | 100<br>200<br>400                                      | 35                                  | 32                     |    |                                         |                                                   |    |  |  |
|           | U(4)1  | 1.50 -<br>1.95 |      |                  |           | 30<br>30<br>30 | 1850<br>1850<br>1865 | 1425<br>1430<br>1440      | Q                        | 139<br>271<br>315    | 100<br>200<br>400                                      | 49                                  | 13                     |    |                                         |                                                   |    |  |  |
| 4         | U(4)2  | 2.50 -<br>2.95 |      |                  |           | 30<br>30<br>30 | 1920<br>1910<br>1885 | 1490<br>1480<br>1465      | Q                        | 224<br>221<br>253    | 100<br>200<br>400                                      | 116                                 | 0                      |    |                                         |                                                   |    |  |  |
|           | Water  | 4.8            |      |                  |           |                |                      |                           |                          |                      |                                                        |                                     |                        | 21 |                                         | 7.9                                               |    |  |  |
|           | U(4)1  | 1.35 -<br>1.80 |      |                  |           | 29<br>30<br>29 | 1935<br>1900<br>1950 | 1495<br>1470<br>1510      | Q                        | 393<br>423<br>1224   | 100<br>200<br>400                                      | 32                                  | 35                     |    |                                         |                                                   |    |  |  |
|           | U(4)2  | 3.00 -<br>3.45 |      |                  |           | 33<br>32<br>32 | 1875<br>1870<br>1880 | 1415<br>1410<br>1425      | Q                        | 363<br>448<br>663    | 100<br>200<br>400                                      | 93                                  | 19                     |    |                                         |                                                   |    |  |  |

U—UNDISTURBED SAMPLE  
 D—DISTURBED SAMPLE  
 W—WATER SAMPLE  
 C.U.—CONSOLIDATED UNDRAINED  
 C.D.—CONSOLIDATED DRAINED  
 Q.—IMMEDIATE UNDRAINED  
 C.—APPARENT COHESION  
 $\phi$ —ANGLE OF SHEARING RESISTANCE  
 S.G.—SPECIFIC GRAVITY  
 M.C.—MOISTURE CONTENT

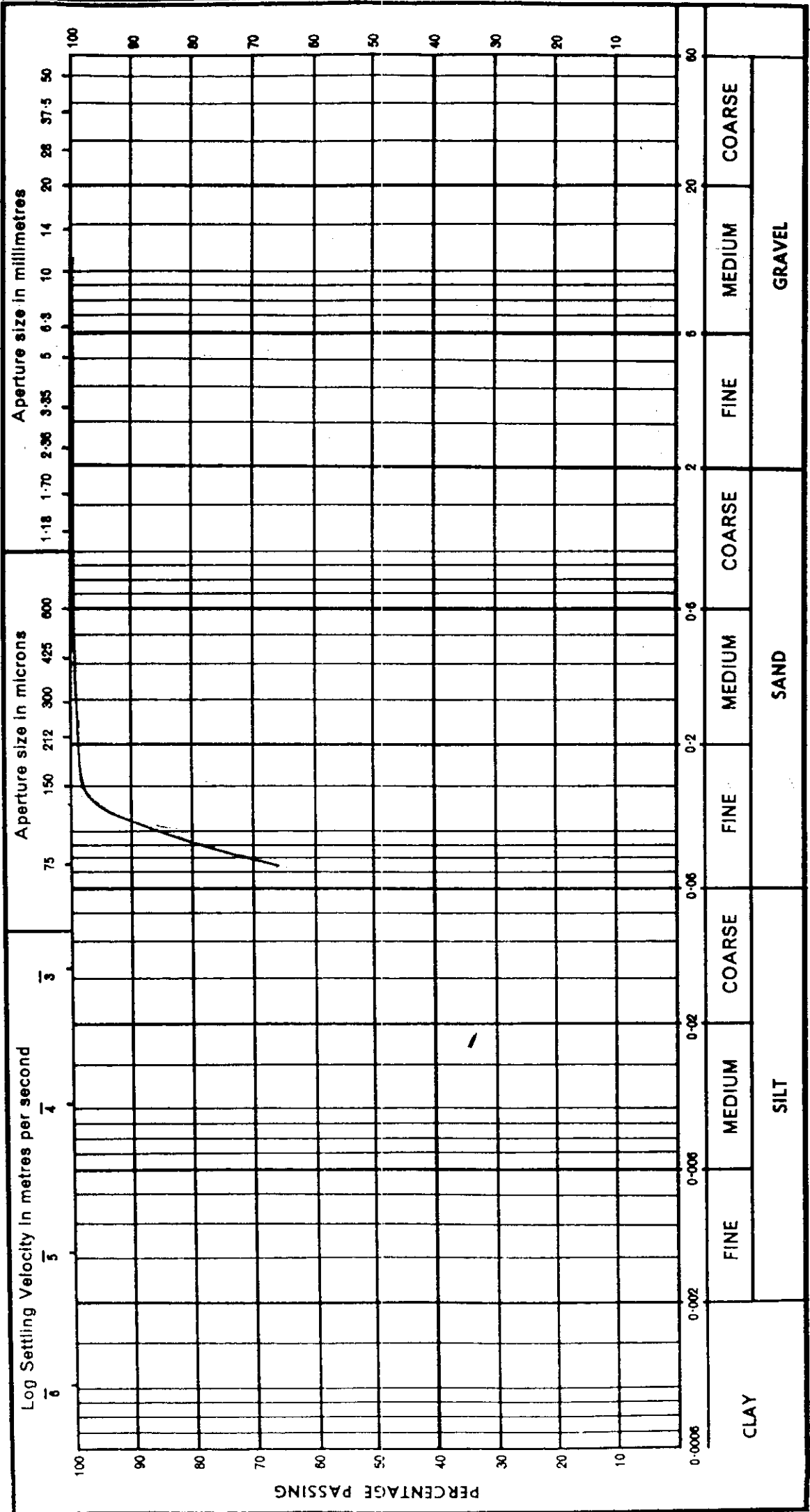
PRE-PIILING SURVEYS LTD., WHARF WORKS, PETERBOROUGH

# PARTICLE SIZE DISTRIBUTION

CONTRACT MILL LAKE, SPALDING.

BOREHOLE 1

DEPTH 5.5 m



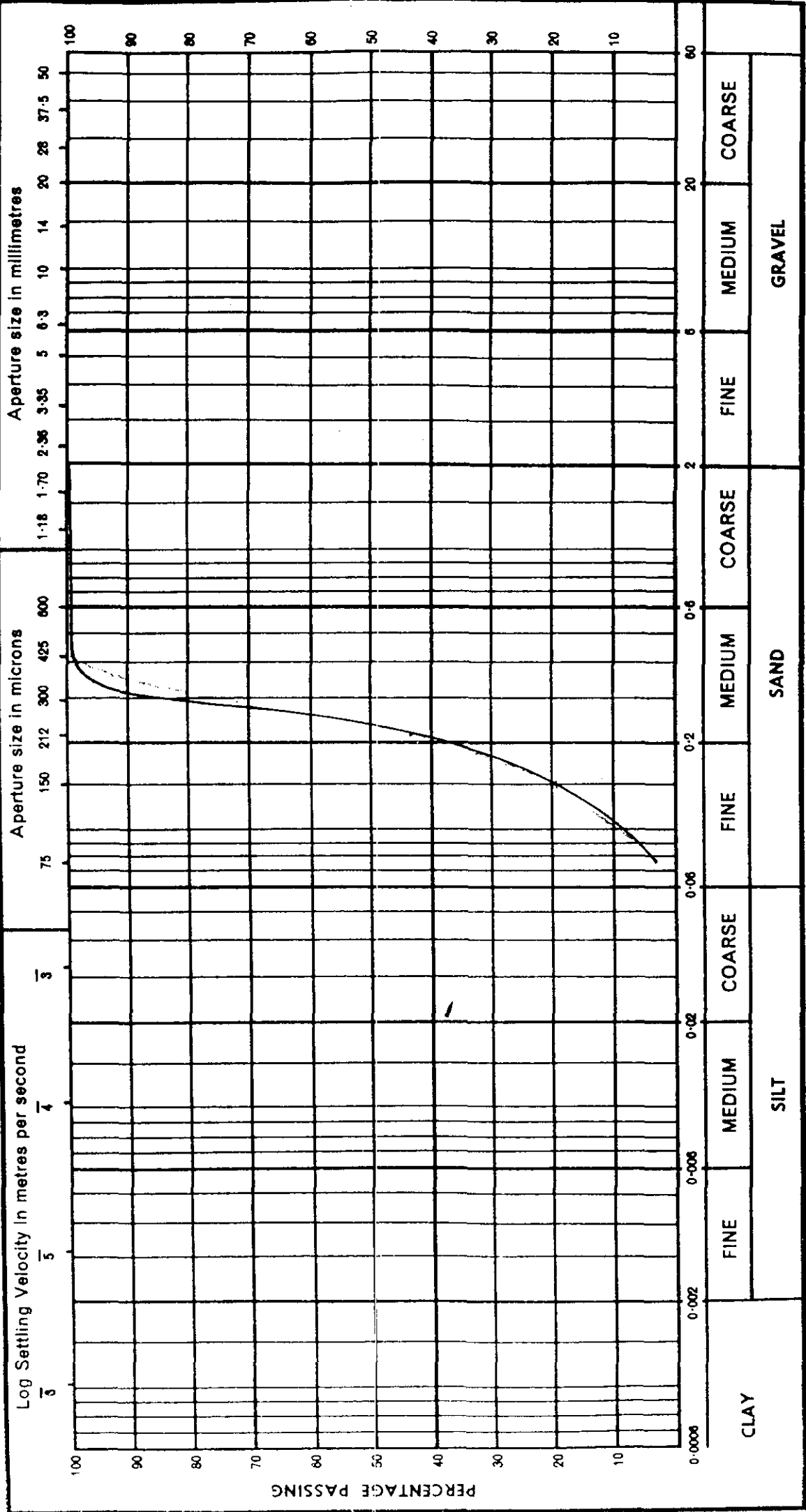
PARTICLE SIZE mm

# PARTICLE SIZE DISTRIBUTION

CONTRACT MILL LAKE, SPALDING.

BOREHOLE 1

DEPTH 12.5 m



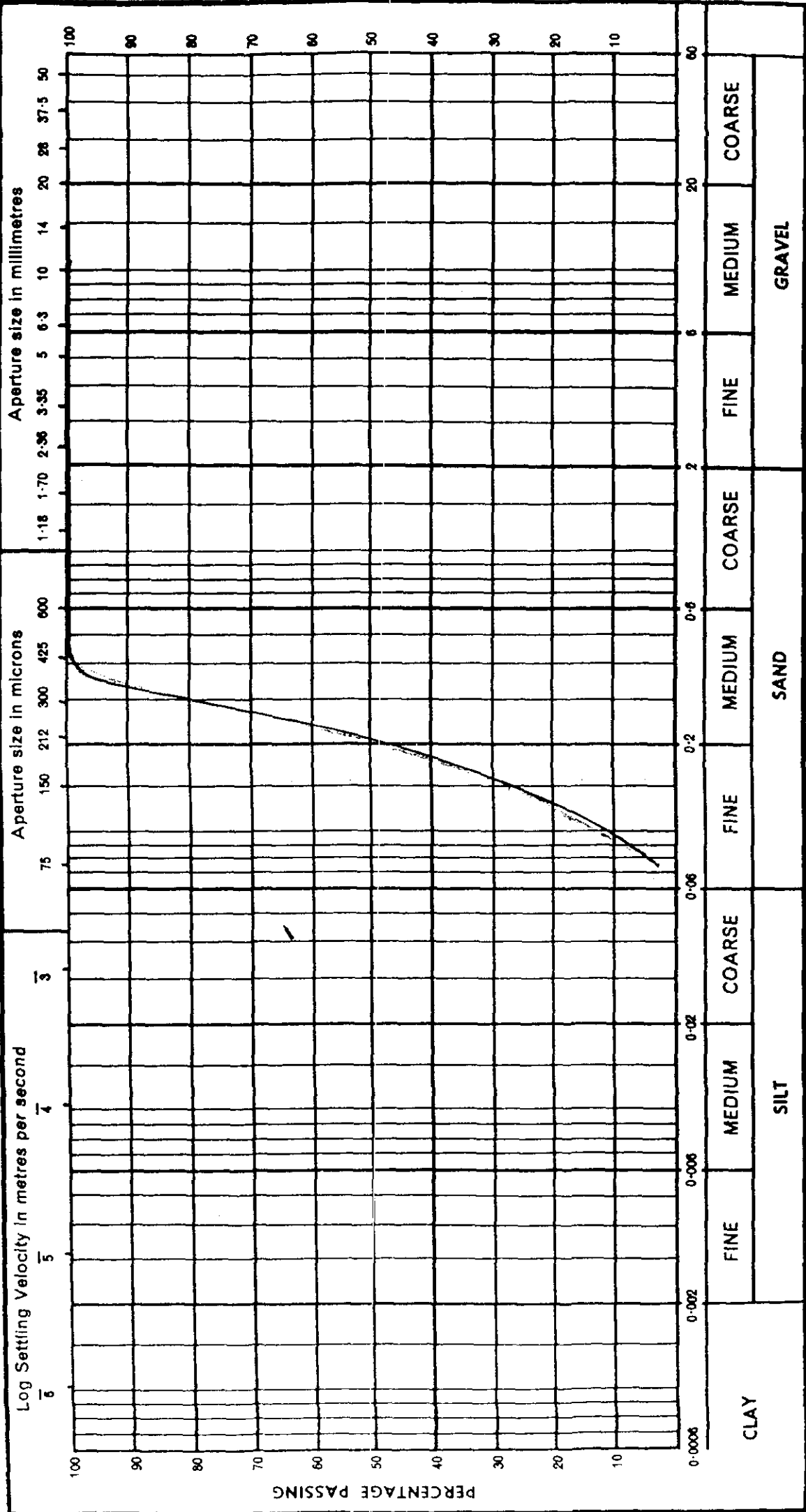
PARTICLE SIZE mm

# PARTICLE SIZE DISTRIBUTION

CONTRACT MILL LANE, SPALDING.

BOREHOLE 2

DEPTH 8.5 m



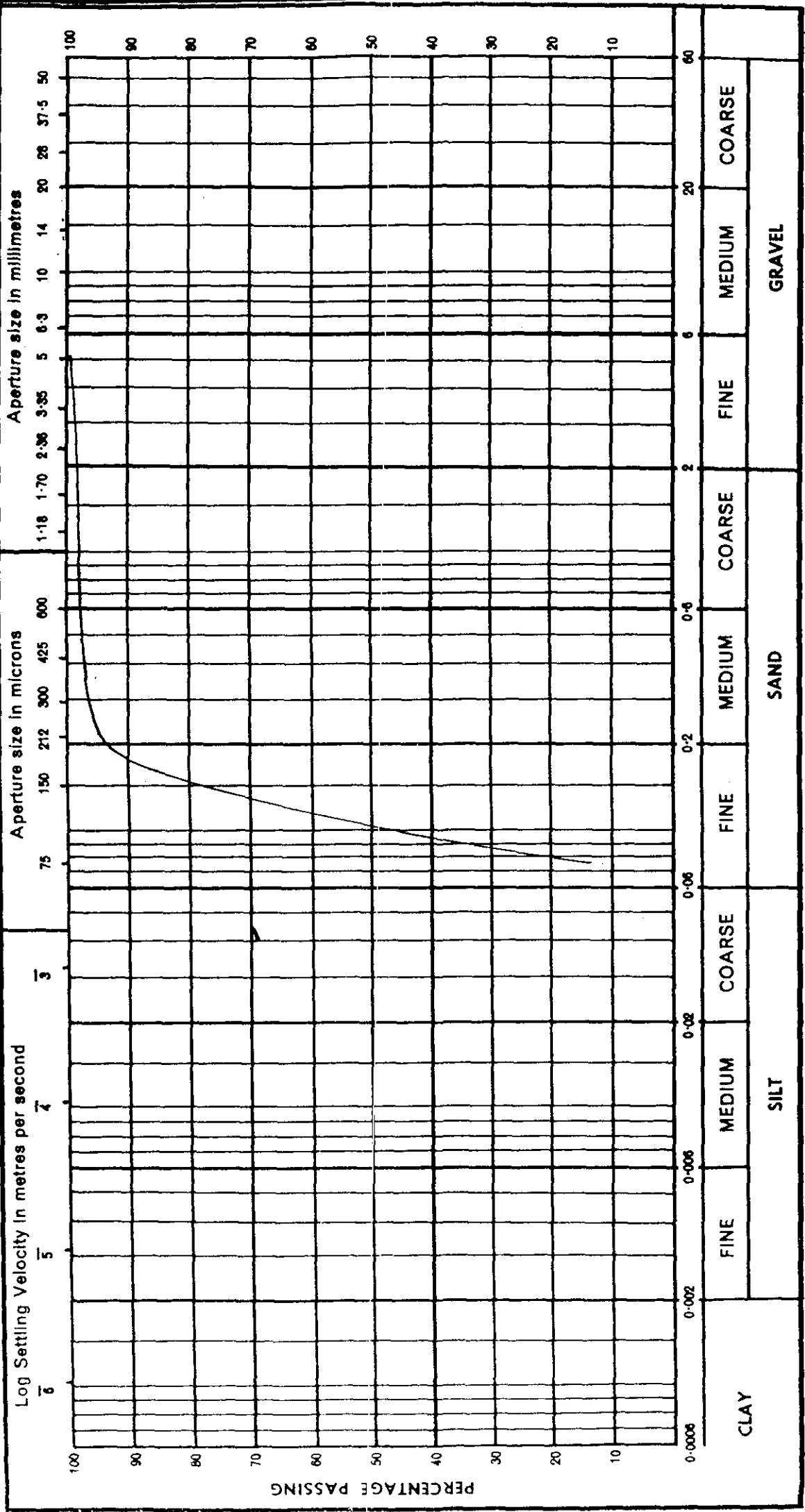
PARTICLE SIZE mm

# PARTICLE SIZE DISTRIBUTION

CONTRACT HILL LANE, SPALDING.

BOREHOLE 3

DEPTH 6.5 m



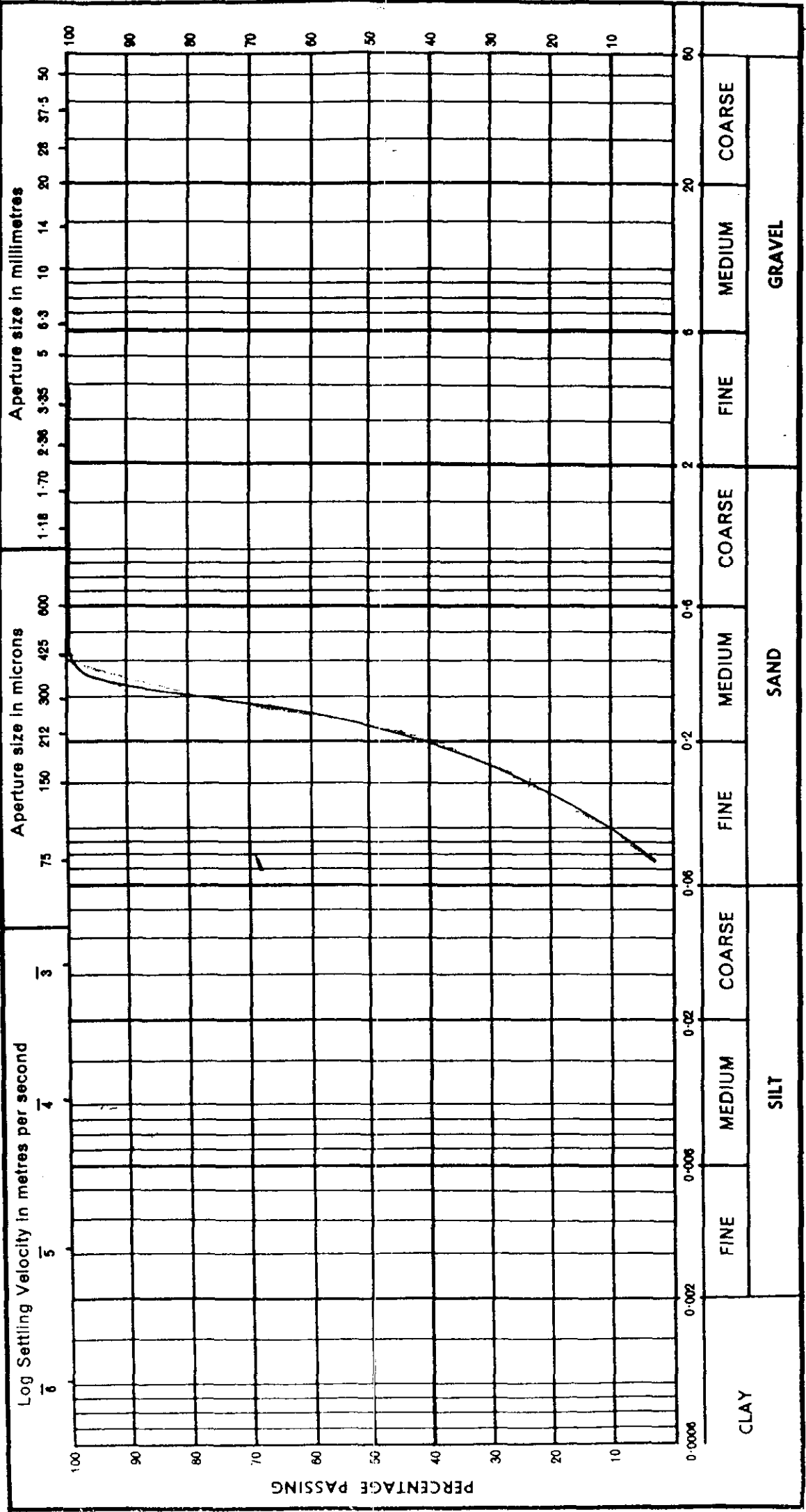
PARTICLE SIZE mm

# PARTICLE SIZE DISTRIBUTION

CONTRACT HILL LAKE, SPALDING.

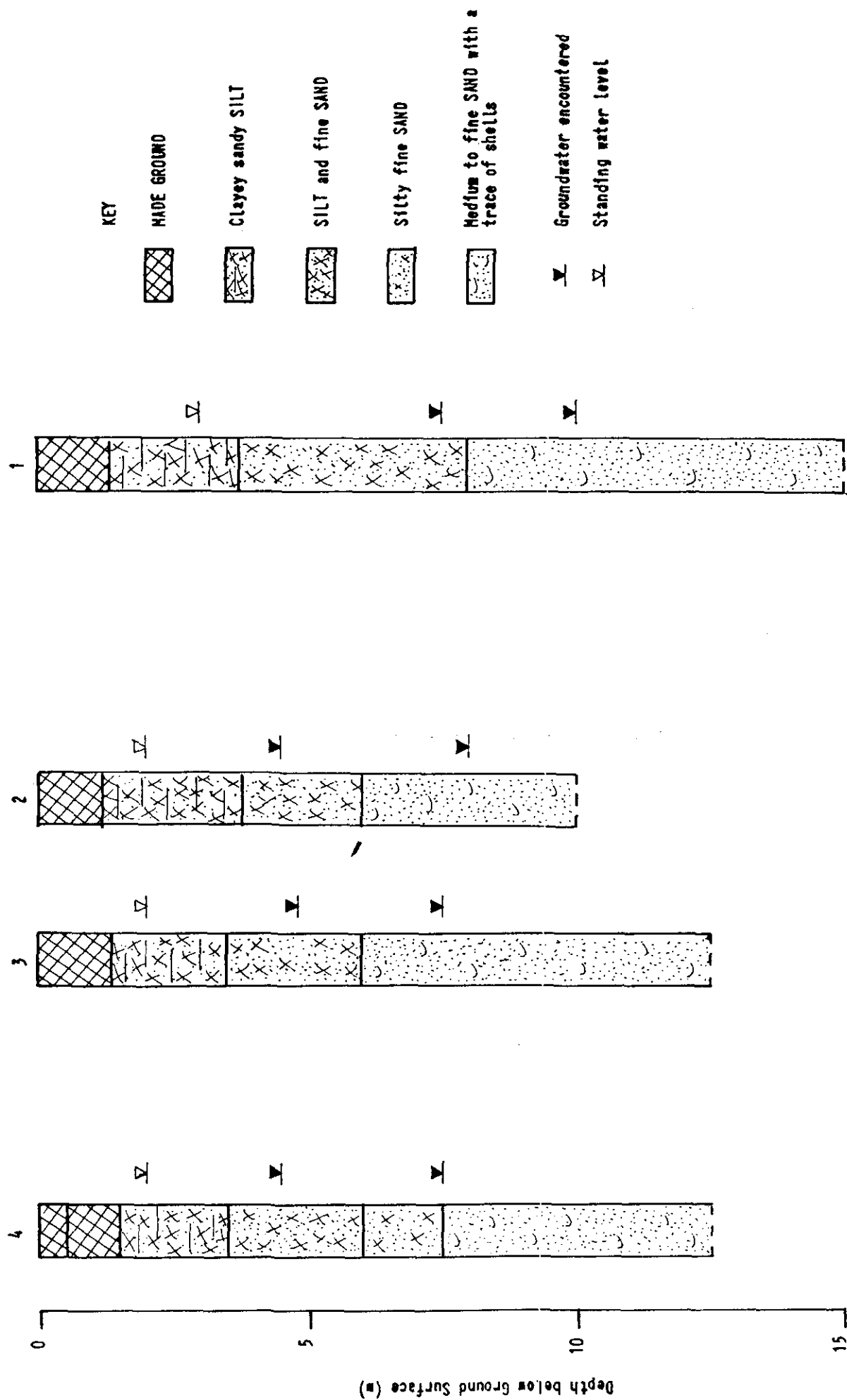
BOREHOLE 4

DEPTH 10.0 m



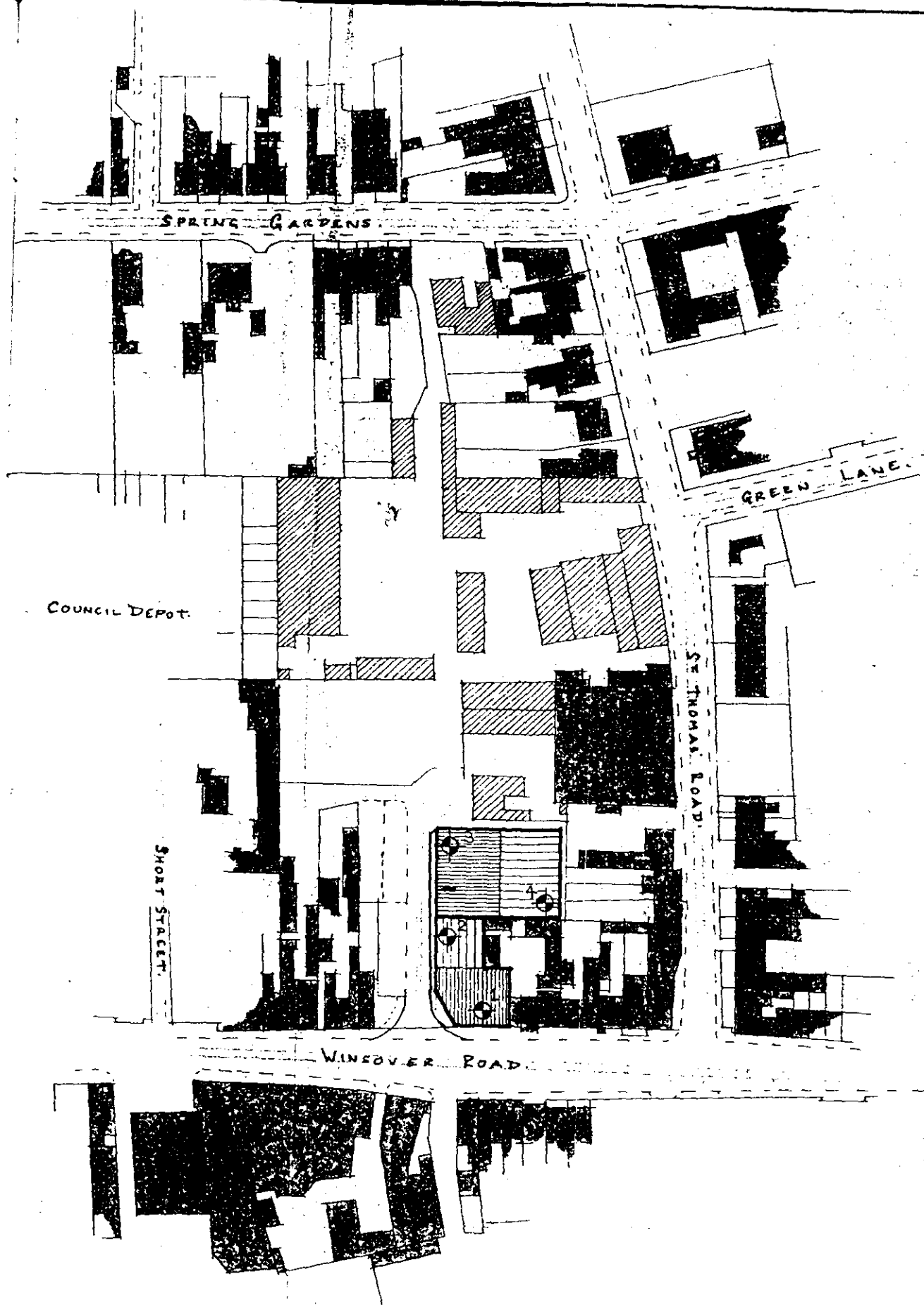
PARTICLE SIZE mm

10/1



Proposed Store, Showroom and Offices,  
Mill Lane, Spalding.

Longitudinal Section through the Boreholes



LOCATION PLAN. Scale:  $\frac{1}{1250}$ .