

COULDREY, MARTIN & CO.

REGISTERED SURVEYORS AND CIVIL ENGINEERS

ROTORUA, OPOITIKI and TE PUKE

UR REF: 202

COUNCIL

ROTORUA

ARAWA TRUST BUILDING
PUKUATUA STREET
P.O. BOX 878
TELEPHONE 82-828

OPOITIKI

PROFESSIONAL CHAMBERS
ELLIOTT STREET
P.O. BOX 94
TELEPHONE 128

TE PUKE

GOSLING'S BUILDING
JELICOE STREET
P.O. BOX 301
TELEPHONE 37-717

26th April 1979

The District Executive Officer,
Rotorua District Council,
Private Bag,
ROTORUA

ATTENTION: District Engineer (Water Drainage)

Dear Sir,

Larkin Subdivision - Malfroy Road

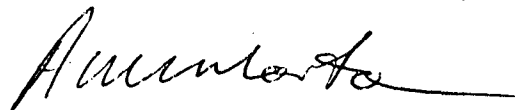
Completion of Engineering Works, Stage II

Please find enclosed the location plan and test results for the Scala Penetrometer testing undertaken on the fill sections of Stage II of the Larkin Subdivision, Malfroy Road. The results indicate that bearing values in excess of 1.0 ton/ft sq. can be obtained on Lots 4, 5 and 9; the other lots of Stage II were not subject to fill works of any significance. However, as for Stage I, it is recommended that further testing of these lots be undertaken and the foundations designed accordingly once the building sites are known.

"As Built" transparencies for Stage II have been delivered to the Drawing Office in Depot Street.

Accordingly we request, on behalf of our Client, that you approve the Engineering works as having been completed to your satisfaction, with the exception of second coat sealing.

Yours faithfully,
COULDREY, MARTIN & CO.



A.M. Morton,
Registered Engineer.

G. J. COULDREY, M.N.Z.I.S.
REGISTERED SURVEYOR

L. S. MARTIN, DIP., SURV., M.N.Z.I.S.
REGISTERED SURVEYOR

R. S. MARTIN, M.B.E., C.ENG., M.I.C.E., F.N.Z.I.E.
REGISTERED CIVIL ENGINEER

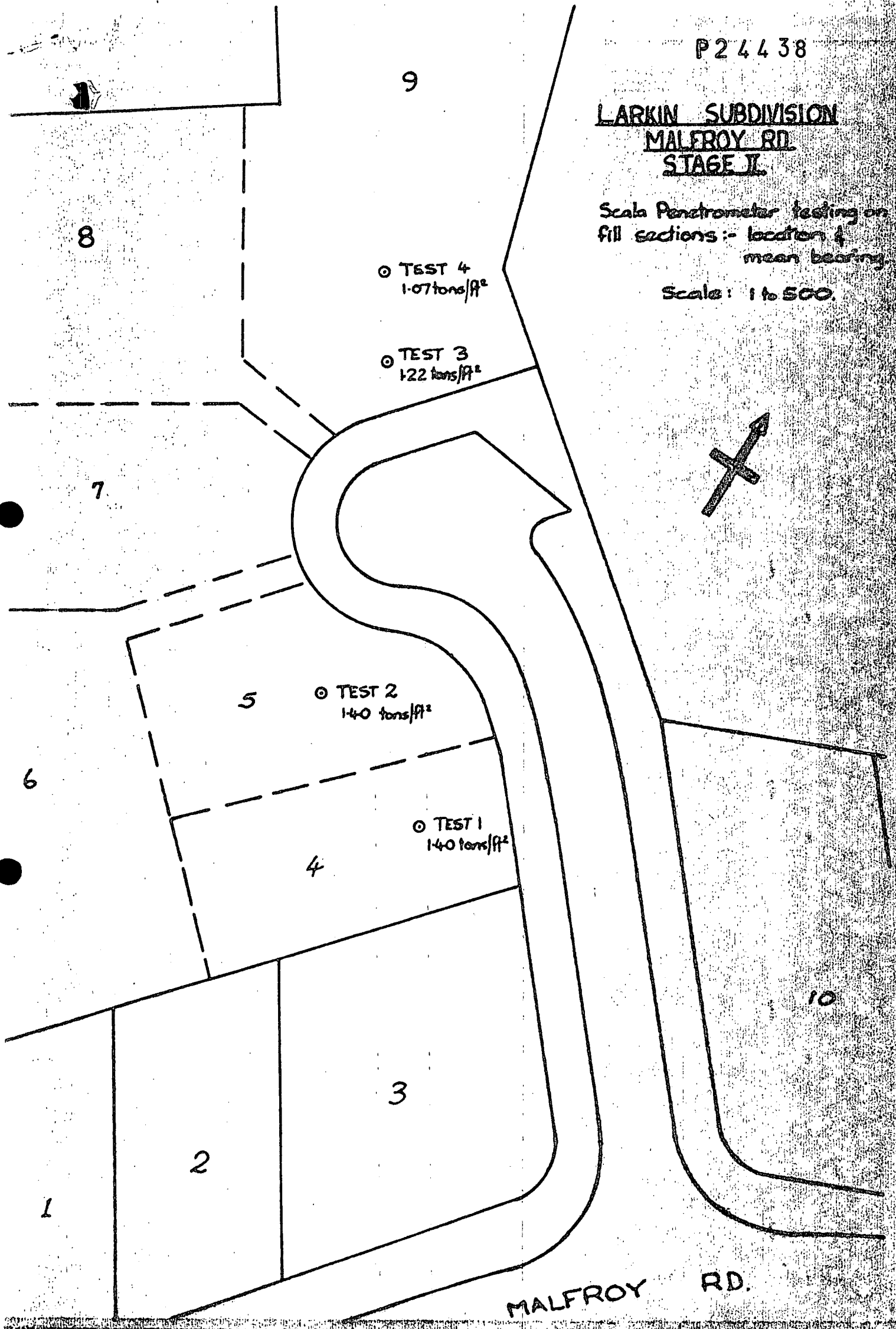
A. M. MORTON, B.E.(Hons.), M.N.Z.I.E. REGISTERED CIVIL ENGINEER

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LARKIN SUBDIVISION
MALFROY RD.
STAGE II.

Scale Penetrometer testing on
fill sections :- location &
mean bearing.

Scale: 1 to 500.



Scale Penetrometer Tests - Jenkins Stage II.

20/4/79.

Testing by A. M. Morton
A. List.

Test 1 Lot 4. 5 boxes

Penetr. Increm. Brg.

1		
8	7	0.95 *
12	4	1.50
15	3	1.80
18	3	1.80
23	5	1.30
28	5	1.30
32	4	1.50
38	6	1.10
44	6	1.10
47	3	1.80 *
52 1/2	5 1/2	1.20

$$\bar{\sigma} = 1.40 \text{ ton/ft}^2$$

Test 2. Lot 5.

P. I. B.

1		
5	4	1.50
10	5	1.30
14 1/2	4 1/2	1.40
17 1/2	3	1.80 *
23 1/2	6	1.10
33 1/2	10	0.65 *
37	3 1/2	1.63
42	5	1.30
46	4	1.50
50	4	1.50

$$\bar{\sigma} = 1.40 \text{ ton/ft}^2$$

Test 3. Lot 9.

P. I. B.

1 1/2		
6 1/2	5	1.30
11	4 1/2	1.40
15	4	1.50 *
19	4	1.50
23 1/2	4 1/2	1.40
30	6 1/2	1.05
37 1/2	7 1/2	0.88
42 1/2	5	1.30
48	5 1/2	1.20
55	7	0.95
60 1/3	5 1/3	0.77 *

$$\bar{\sigma} = 1.22 \text{ ton/ft}^2$$

Test 4 Lot 9.

P. I. B.

1		
6	5	1.30
12	6	1.10
16	4	1.50 *
23	7	0.95
28	5	1.30
35	7	0.95
43	8	0.80
49	6	1.10
57	8	0.80 *

$$\bar{\sigma} = 1.08 \text{ ton/ft}^2$$

* Highest & lowest values discarded for calc. of mean bearing pressure increment measured in inches; bearings in ton/ft²

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14 May 1979

MEMORANDUM : CHIEF INSPECTOR

LARKIN SUBDIVISION, MALFROY ROAD

Attached copy of letter from Couldrey Martin and Co. dated 26 April 1979 and plan showing results of test bores on the subdivision.

Please note the recommendations regarding foundation investigations before building permits are issued. Such investigations must be required, as a good deal of uncontrolled filling has gone into this area.

G. S. Roberts

G. S. Roberts
DISTRICT ENGINEER
(WATER AND DRAINAGE)

*Note max. bearing pressure to
foundations on lots 4-5 & 9
1 ton ft².
16-5-79*

Mr. <u>THOMPSON</u>
REFERRED FOR YOUR:
Information <u>HAVE PROP FILED</u>
Reply <u>FOR LOTS 4-5 & 9 MADE</u>
Inspection <u>UP, WITH A COPY OF</u>
Report <u>THIS ON EACH ONE</u>
Comment
<u>17-5-79</u> <u>Chief Insp.</u>

P244382/

*Senior Building Inspector**Copy for your records.*
70

11 January 1979

MEMORANDUM for : EXECUTIVE OFFICER ENGINEERSLARKIN SUBDIVISION
MALFROY ROAD(i) Foundations

This area has been filled. A foundation report is to be obtained by the owner or builder before a building permit can be issued.

(ii) Sewerage

There are main sewers and stormwater pipes existing over some sections. Their location must be checked relative to the proposed buildings before a building permit can be issued.

The \$70.00 connection fee will apply to Lots 1,2,3,4, 6,10,11,12, & 13.

Please ensure that the Inspectors are aware of these requirements.

G.S. Roberts,
CITY ENGINEER