CORRESPONDENCE, ETC. RELATING TO UNION CONSTRUCTION LTD

- 1 27.03.87 Gerald Shirtcliff to Cathedral Properties.
- Peter Scott's Pingon tower crane technical drawing used to construct the building.
- 3 Budget and quantities ex Tony Scott (note reinforcing rods to suspended slabs).
- 4 March Construction piling programme.
- 5 Piling plans and layout.

(1-5 relate to witness clause 22)

- 6 Letter to Alan Reay from A Scott re Amuri Corporation, Chester Street.
- 7 D Harding's preliminary structural sketches with references to Madras Street design CTV building.

(Relates to witness clauses 13 and 14)

- 8 Memo from M Brooks to Union directors re Amuri Corporation, Chester Street.
- 9 A Scott memo to directors 21.09.87.
- 10 A Scott report to Management Committee 18.06.87.
- 11 Quote for column forms to be used on CTV building.
- 12 Invitation to tender from Alan Reay to Union. Bill Jones assisted with this tender.

13a & b A Scott tender submission.

14 Draft affidavit for A Scott from Phillips Shayle-George.

(This relates to my clauses 28, 29 and 30. The date of 6 September 1987 on the Affidavit assists to determine the approximate date of assignment of CTV contract from Williams to Union.

Stephen Smart met Brooks, Shirtcliff and Scott in Christchurch at Quality Inn, Durham Street, a few weeks after this date to agree the solution described in clauses 28, 29 and 30.

The assignment followed a few days after this meeting and involved an exchange of signatures by fax on the original contract with Prime West. Signatories were M J Brooks on behalf of Union Construction Ltd, and S J Smart for Richmond Smart Group, new owners of Williams Construction Canterbury.

I was present at Williams' offices when M Brooks signed the document and faxed it to S Smart and saw the return fax signed by S Smart.

This was the first time M Brooks had been back to Williams' offices since his dismissal in March 1987).

15 Construction budget calculations for CTV building prepared by Sandy Robertson, Staff QS Williams and Union (dates important 23.03.87 and 13.02.87).

(This illustrates how the pumping costs of concrete to walls and columns was budgeted. Sandy also liaised with Bill Jones on site).

lgfut. 10-4-12.

UNION CONSTRUCTION CANTERBURY LTD

c/- Sparks Erskine & Co 1 Rimu St Riccarton CHRISTCHURCH

27th March 1987

The Manager
Cathedral Properties Pty Ltd
C/- 1 Grafton Mews
60-62 Grafton Rd
AUCKLAND

Attention: Mr. S. Grant

Dear Sir,

RE: VICTORIA ST PROPERTY

As discussed enclosed are 2 copies of bar chart and critical path programme for the construction of the above project.

I apologise for the poor quality of the prints, but this was caused in the reduction process.

Yours faithfully,

G.Shirtcliff CONSTRUCTION MANAGER

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CONSTRUCTION PROBRAM CATHEDRAL PROPERTIES VICTORIA ST.

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UNION CONSTRUCTION (CANTY) LTD

DATE: - 27.387

Brand G SHRICUFF.

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SKETCH

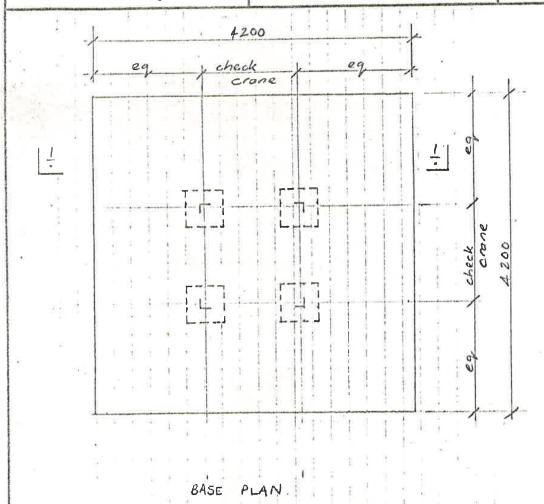
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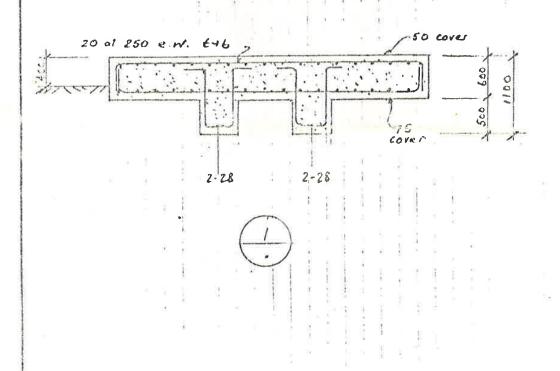
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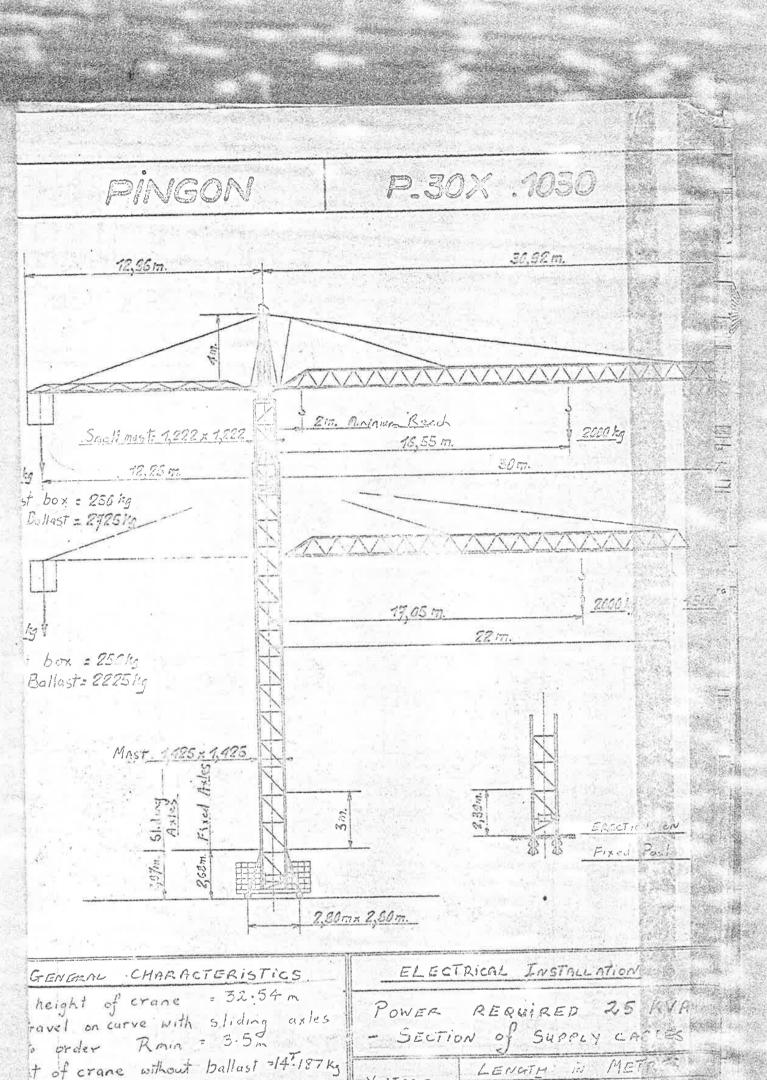
Holmes Wood Poole & Johnstone Consulting Engineers Christchurch & Wellington RADIO NZ.

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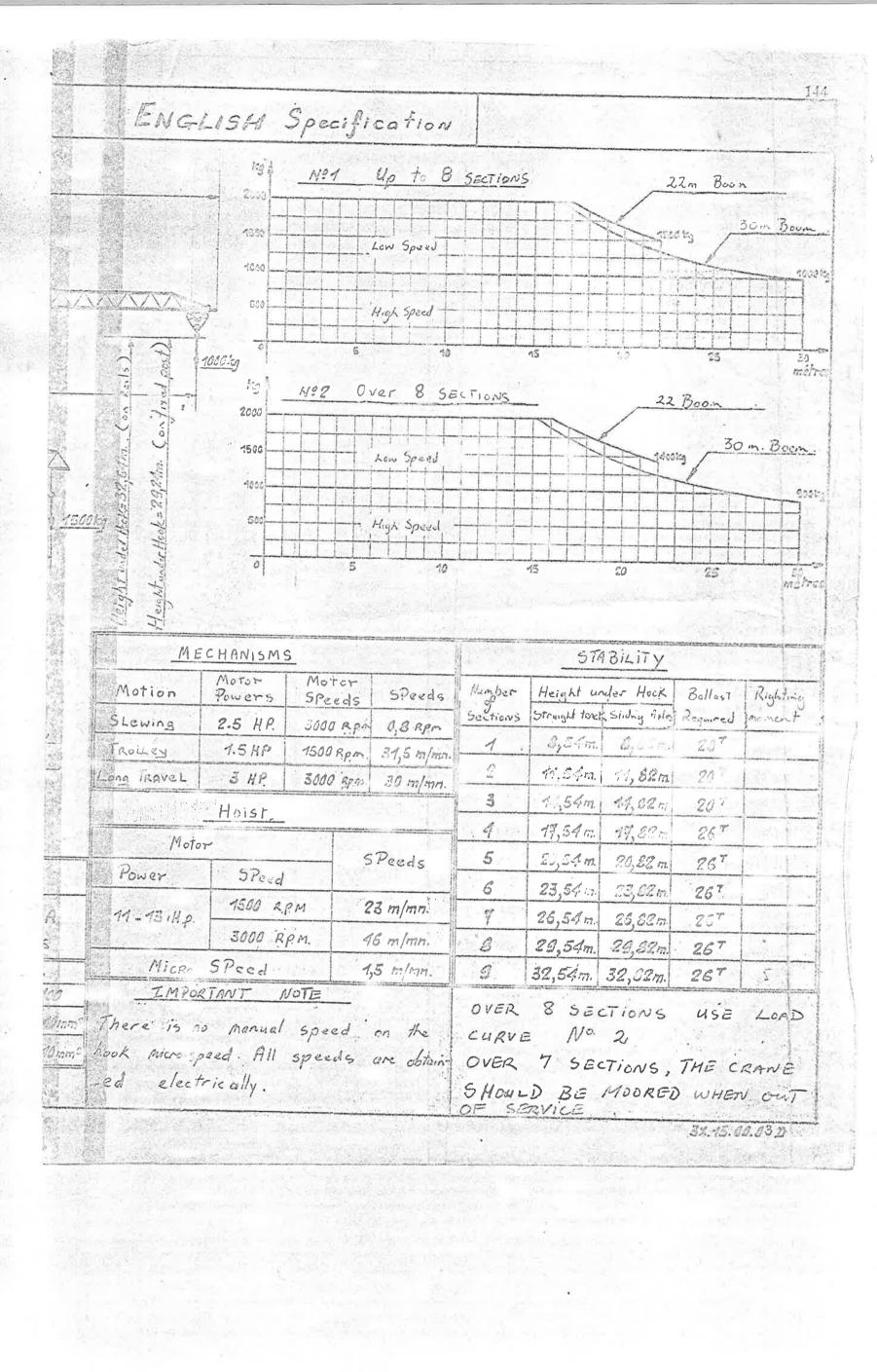


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t of crane without ballast =14.187kg out of service the boom must be ed to swing free eight on fixed post minus anchorage 29.24m eight on fixed post with andorage Elescoping Leight = 59.24m

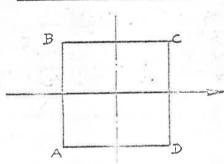
300 VOLTAGE 100 200 4x10mm 4x16mm 4x25m 360 - 380 Y 4x16 mm 4x25 mm 4x40 mm 200 - 220 V



CRANE TYPES P20 to P30 CRANE ON FIXED MOUNTING FORCES ON THE ANCHORAGE L'S.

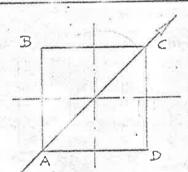
IN SERVICE WIND

WIND ON SIDE



BOOM PARALLEL TO SIDE

WIND ON DAGONAL



BOOM AT 75° WITH RESPECT TO SIDE

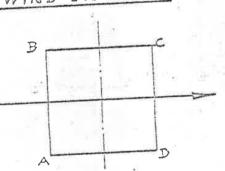
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87 - 6	+6.63	+6.63	-13.50	- 13.50	3	89.3	+10-72	- 3.44	- 17.60	-3-44
95 · 7	+7.20	+7.20	-14-29	-14.29	4	98.1	+12.01	-3.56	-19.10	-3.56
104.8	+8.10	+8-10	-15.47	-15.47	5	107.9	+13.41	-3.68	- 20-77	-3.68
114.9	+9.11	+9-11	-16.71	-16.71	6	118 -7	+ 15.04	-3.80	- 22-65	-3.80
125.8	+10.20	+10.20	-18.06	- 18.05	7	130.4	+16-78	-3.92	-24.62	-3.92
137.8	+ 11.47	+11-47	-19.58	- 19 - 58	8	143 - 1	+ 18.71	-4.05	-26.80	-4.05
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The + sign indicates a TENSILE force on the foundations The - sign indicates a compressive force on the foundations

CRANE TYPES P20 to P30 CRANE ON FIXED MOUNTING FORCES ON THE ANCHORAGE L'S

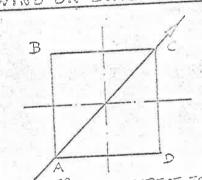
OUT OF SERVICE WIND

WIND ON SIDE



BOOM PARALLEL TO SIDE

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BOOM AT 45° WITH RESPECT TO SIDE

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The + sign indicates a tensile force on the foundation

The - sign indicates a compressive force on the foundation

N.B. WHEN OUT OF SERVICE, THE BOOM MUST BE FREE TO SWING WITH THE WIND.

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CATHEDRAL PROPERTIES CONFIRMED BUDGET

Preliminaries	156,425
Sub-Floor, structure and upper-floors	544,038
Metalwork	
Metalwork	36,055
Roofing	21,000
Carpentry	173,057
Drainage	6,000
Joinery	48,846
Suspended Ceilings	50,000
Aluminium Windows	426,409
Plumbing	84,140
Electrical	146,600
Glazing	12,965
Tiling	15,435
Painting	54,500
Mechanical services	308,066
Siteworks	27,519
Floor Coverings	-
Elevators	-
Specialist services	-
Margin	205,000
TOTAL	2,316,055
Browner Couling Control of the Contr	

e) CONTRACTS IN PROGRESS

1. 138 Victoria Street

Client: Cathedral Properties Ltd

Contract: Master Builders - negotiated

Consultants: Architect - Ian Krause

Engineer - Holmes, Wood, Pool, Johnstone

Price: \$2,185m - Fixed.

Site Manager: Mr. Peter Garland

Brief Description: 8 Storeys approx 28,000 sq.ft including

showroom, offices, penthouse. R.C. frame, piled foundations with Hi-Bond floor on steel primary and secondary

beams. Glass facade.

Minimum contract period of 8.5 months Programme:

quoted from 1st May 1987.

Progress:

Piling completed approx 2 weeks late due principally to legal action by nearby contractor. Main contract commenced on 30.4.87. Foundation work currently in progress with first concret pour due on 14.5.87. Scheduled to be 'out of ground' with ground floor slab poured by 9.6.87

BUI.MAD249.0324.13

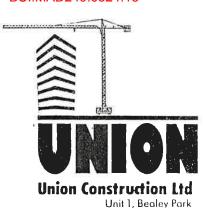
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		atto in lile-caps Aito in lopmin br			
		floor slab.	350	m ²	
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		Formwork to found.	76.		
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1100		Total of Found	Bean	۵,	

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	30 mps concrete along		m 3		
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	Mitto SOO Niameter	21	No.		
	Formwork, to too. Square columns (Ply-Shutters) 12 No	16.	m		
	Place + Strip Fuk to 40.0 sq. Lolumns.	130	m²		
	Build - in metalwork cleats to tops of columns.	101	No		
	Place column Reinforcing steel	, , s	<u>t</u>		
		.27	m ³ .		
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	Reinforcing Steel	8.34	1		
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	25 mpg conc in 120 mm (Pumped)	264		
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0	Place blob mech	2346	2	
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	120mm edge Fwk to slabs including curved corners	405		
	25 mpa uncrete in 120 mm stair landings ind Finishing.			
	Place Rein steel Sillit Fuk to stair landings	1.5		
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Cnr Bealey Ave and Churchill St

Christchurch, New Zealand

Telephone (03) 54-872 (03) 54-872 FAX

P.O. Box 27033

Allan Real Associates Consulting Engineers P.O. Box 25-028 CHRISTCHURCH

Attention: Mr. Allan Reay

15-5-67

Dear Sir,

AMURI CORP DEVELOPMENT CHESTER ST

We set out below a summary of differences observed between our specification of 26.3.87 and the Architects specification received this week.

We have disclosed our budget allowances for these trades, in order that subcontractors quotes can be forwarded for approval and the client may benefit from any credits involved.

This is not intended to change the terms of our fixed price offer of 26.3.87 but enables more flexibility for the Architect and yourselves to finalise design details within parameters.

Drawing programme

In order that work on site may commence in mid-late June, and enable our proposed construction programme of 60 weeks to be maintained, we suggest the following design drawing sequence.

- May 18-29 Architectural details for budget and subcontract finalisation.
- b) June - structural and piling drawings for foundation permit, along with sufficient Architectural drawings for permit.
- c) June/early July - Construction drawings for carpark structure and piling.
- July Structural and Architecturaly precast drawings for d) prefrabrication of components. Final Arch and Struct drawings for full permit by end of July.
- Aug Drawings for Construction finalised and issued.

The key to our 60 week programme is sufficient information to allow the carpark and piling to commence in June/July and off-site precast manufacture in July/Aug.

AMURI OFFICE DEVELOPMENT CHESTER ST

Architects specification differences:

- Curtain Walling and Glazing 6mm Glaverbel reflective. Union allowance for conventional aluminium joinery \$85,000
- Precast Panels No details to hand b) Union allowance \$125,000
- Tiling Ceramic tiles to toilets c) Tiling to penthouse decks and entry. Union allowance - entry and intermediate decks \$8,234 Solid plastering \$36,000
- d) Carpentry - Plasterglass Fire-rated wall-linings.
- Metal & Butynol Roofing Butynol to all concrete decks. e) Union allowance \$31,118.
- Painting Epiguard to exteior.
 Union allowance \$53,140 interior and exterior.
- Recessed pan light-fittings: There \$132 F. Recessed downlights Electrical g) Electrical skirting trunking/ *Perimeter heating system No.

Union allowance \$85,000.

- Plumber Fittings to be checked. Union allowance \$55,000
- Elevators 1.75m per sec Union allowance \$290,000

thack: delete interior painting tenancy Formica linings to toilets & Rasco partitions (Wayman rading) FHR + Detectors / Electrical to be designed thenders - called: I Precost to Glazing have together Wheek Harding. ets - Laronna Pano + Cistern struct Drug ASA.P. /

Wed Thurs

9 Budget + Pricing & Founds + Carpark

Horizon Aluminium (Ch.Ch.) P.O. Box 10-175, Phillipstown

AMURI CORP.

21/5/87

Levels 2 to 5 - CURTAIN WALL (SOUTH-WEST-NORTH. ELE)
Balcomeis on 2 to 5 - Shopfront & Doors (2PR per floor)
Level 6 Penthouse - Shopfront & Sliding doors (600)
Ground & Level 1 - Shopfront & doors (2PR.) (SOUTH-WEST)

NO automatic doors allowed no canopy allowed.

6mm stopsol grey reflictive glass except to G.F. shopfronts e doors.
Toughered over spandrels & shear walls to WEST ELE.

NOTE: Scaffolding will be required to WEST shear walls for fixing & glaying. - also to G.F. e level 1.

No fireproofing allowed between floors.

Curtain wall fixed from inside with both pre-glaying & inside glaying

ESTIMATE for TOTAL AS ABOUE \$292, 852 - 00 Supply, Install & flage.

ESTIMATE with frames & glaying to WEST shear walls deleted.

NO G.S.T.

5256,953 - 00 Supply, Install oflage.

Horizon Aluminium (Ch.Ch.) P.O. Box 10-175, Phillipstown

\$ 26/153

Mark. Spec.

OTIS ELEVATOR COMPANY LTD.

31 DUKE ST., P.O. BOX 4050, MOORHOUSE, CHRISTCHURCH, NEW ZEALAND.

28 May 1987

Union Construction, P.O. Box 27-033, Christchurch

Attention Mr. T. Scott

Dear Sir,

RE

Amuri Corp Building

Further to our recent verbal advise, we confirm our price of \$320,000.00 for the supply and installation of two 910 kg @ 1.75 Elevonic 301 elevators, each serving 7 stops/7 openings.

Kind Regards

Yours faithfully, for OTIS ELEVATOR CO LTD

M.G. Blom Manager

Drawing Programme

Points A to E of Union Constructions letter of 15.5.87 discussed.

June - July structural drawings for Foundation Permit, piling and carpark structure confirmed.

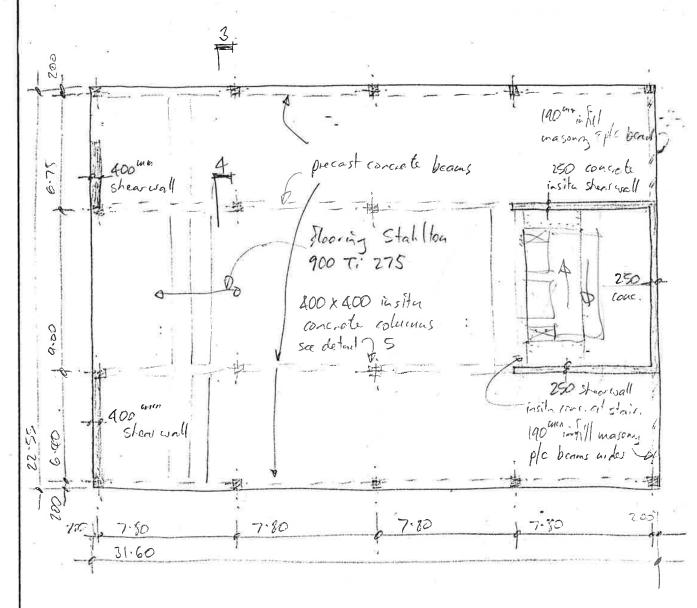
Architectural drawing programme to commence in June, with target dates for Permit and Construction to be confirmed.

A.J. Scott UNION CONSTRUCTION LTD

AMURI BUILDING CHESTER ST

<u>A)</u>	MAIN-CONTRACTOR	TOTAL
	Preliminaries	230,660
	Foundations & Piles	376,488
	Structural Frame	266,588
	Upper Floor slabs	508,889
	Basement carpark	218,520
	Carpentry	163,890
	Precast Panels	132,500
<u>B)</u>	SUB-CONTRACTORS	
	Structural steel	36,260
	Metal & Butynol roofing	32,985
	Aluminium Joinery	90,100
	Plumbing	58,300
	Drainage	7,420
	Electrical	90,100
	Joinery	21,200
	Suspended ceilings	96,754
	Solid plastering	38,160
	Elevators	307,400
	Flooring	11,236
	Tiling	8,728
	Painting	56,328
	Glazing	4,240
	Fire-protection	22,573
	Siteworks	21,689
	TOTAL	\$2,801,008

Margin on Subcontractors 6%



PLAN - TYPICAL FLOOR, LEVELS 1 to 6 (6 off)

Grass Floor Area = 31.6 x 22.55 = -112 m²

length of p/c beams = (2x31.6) + (2x23.6) = 110 m

Hon 1 8-60
275 | 24-60 | 1238 m² | 532/m

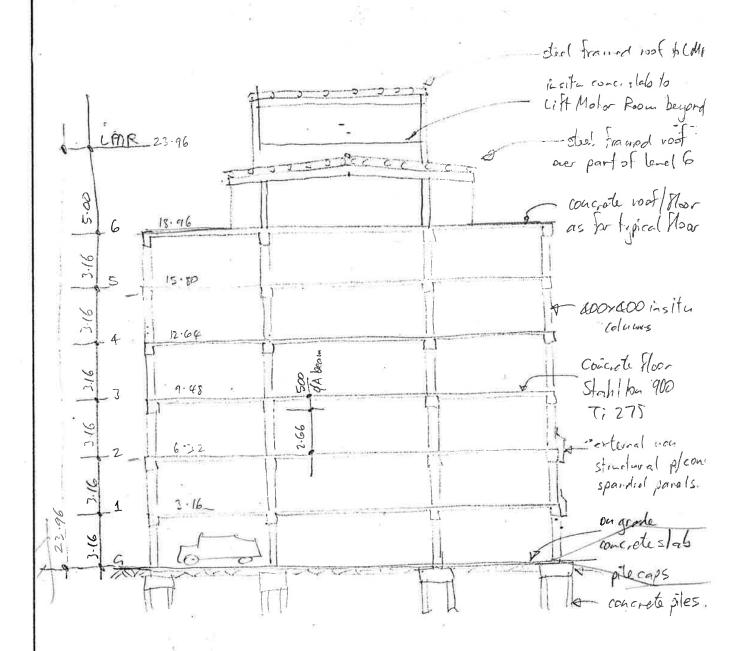
1500 | 1238 m² | 532/m

Ack slate 6/2/31-00 2120 m2 \$35/m2 1-23+ | slat

ALAN M. REAY Consulting Engineer

- PRELIMINARY OFFICE BUILDING - CHESTER ST WEST

BUI.MAD249.0324.25 SECT SKETCH FILE 2642 12/3/87 DATE



TYPICAL CROSS SECTION

1:20 appox

5356 ...

ALAN M. REAY Consulting Engineer

1:10 apaox

ALAN M. REAY Consulting Engineer

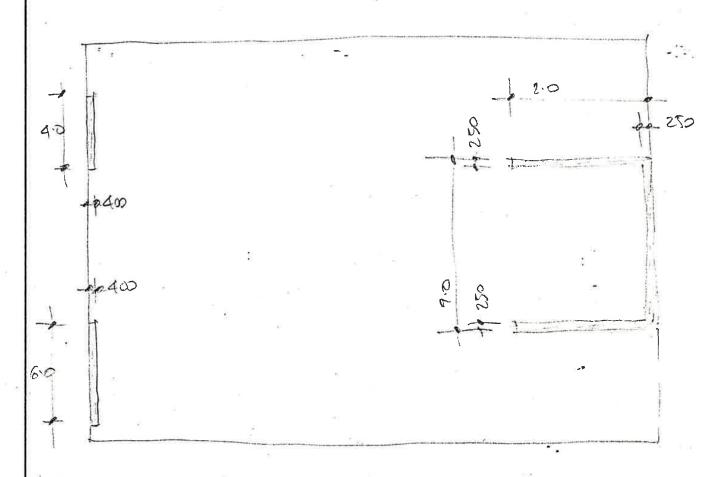
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ALAN M. REAY Consulting Engineer

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CONSTRUCTION DETAILS - PRECIMINARY	SECT	SKETCH
OFFICE BUILDING - CHESTER ST WEST		2642
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CONCRETE SHEAR WALLS

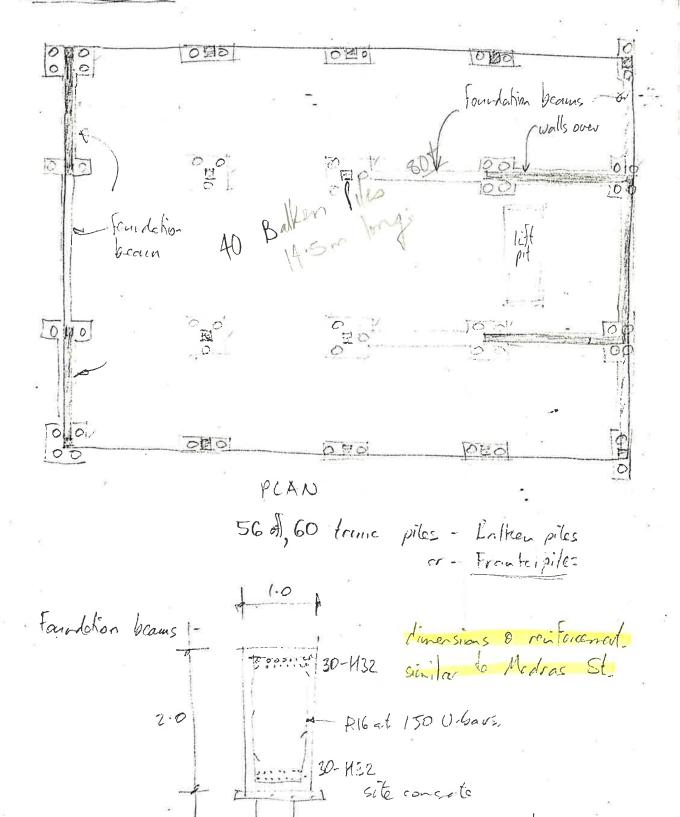


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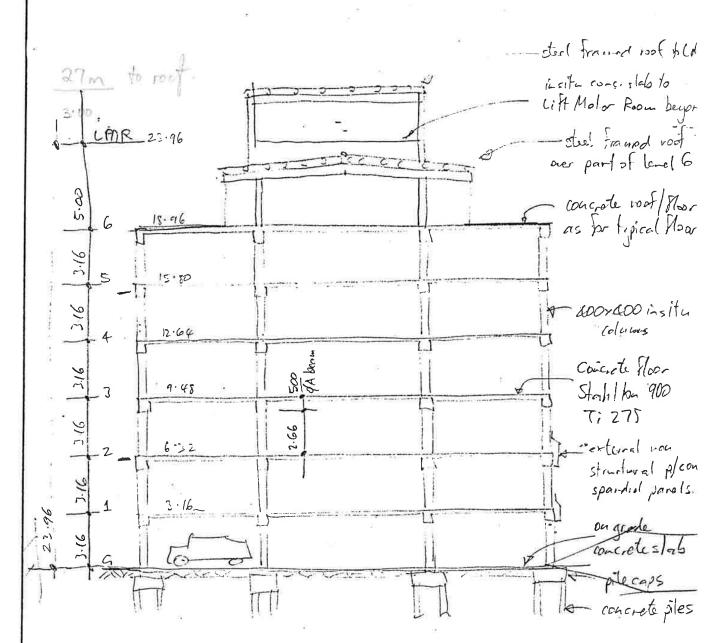
FOUNDATIONS



ptes as shown on plan.

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	PAGE	2	
CONSTRUCTION DETAILS - PRECIMINARY	SECT	SKETCH	
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TYPICAL CROSS SECTION

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4

CERTALL CUMBERS

MJB/MMcD 9 September 1987

The site to in the imposints visualty of the Law Courts' (decreatly ender established).

MB MO og properties isolude Este Potes (Radio M.S.). Chancer Botel, Statistics Pape, building and Waisaki B.E.M. offices.

TO: DIRECTORS

SUBJECT: AMURI DEVELOPMENT - CHRISTCHURCH

the Amuri Corporation have indicated a willingness to consider the outright sale of their land in Chester Street, Christchurch.

I recommend that the Parent Company purchases the land and undertakes the development and accordingly authorises me to submit an unconditional offer in the form attached.

A summarised financial feasibility is attached.

1. Clook Fins - matural lighting to three midse - relatively.

M.J. Brooks easy to scholively floor.

M.J. Brooks GENERAL MANAGER

- relative to hav Courts and I lett

To: Mr. Don McFarlane

Copy to: Mr. Lloyd Perris the two rentain of the - All particular to the state of the condition of the condition of the condition of the condition of the content of the co

5. Potucas - a particulorly etonographus proposition and bas been taken, area with a desirable case was of 10% a potential expiration and affector to 10% as demonstrated.

CONSTANTANT

In conclusion I would since by the command that the site be acquired if possible while the coupling that the forest in appearantive, the degree of interest should be a few to justified by the potential actume and important to property.

GENERAL COMMENTS

LOCATION

The site is in the immediate vicinity of the Law Courts (currently under extension).

12004 Ft 2.

Adjoining properties include Kent House (Radio N.Z.), Chancery House, (Court Building), Durham Towers Hotel, Park Royal Hotel, Statistics Dept. building and Waitaki N.Z.R. offices.

This general area has developed rapidly over the past ten years, the Law Courts initially being the focus or magnet. A common feature of sites in this area being ease of access and relatively good parking opportunities.

ZONING

The plans comply substantially with Scheme requirements but for a minor matter currently subject to Council approval. If declined only a minor amendment to the drawings is required.

TENANCY LEASING

Salient features that make this building a good leasing prospect are

THIRD - THE TYPE OF - THE R.

- 1. Floor Plan natural lighting to three sides relatively easy to subdivide floors.
- 2. Location relative to Law Courts and Hotels
- 3. Car Parking Minimum 46 spaces on site no other building proposed at present can offer this number
- 4. Rentals Conservative rentals of \$18 \$21 per sq.ft including carpet and air conditioning.

 Current rentals for similar new buildings range from \$16-50 to over \$25 in the commercial centre.
- 5. Returns A particularly conservative approach has been taken. Even with a capitalisation rate of 10% a potential capital gain of close to 30% is demonstrated.

CONCLUSION

In conclusion I would strongly recommend that this site be acquired if possible Whilst accepting that the proposal is speculative, the degree of inherent short term risk is justified by the potential return and long term investment prospects.

CONSTRUCTION COST - CASH FLOW

Contract Price - \$3,200,000

Construction Period - 1st October 1987 to 30 September 1988 12 months.

Progress Claim No.	Gross Value	Net Claim
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	32,000	28,800
winds to a graph of the state o	160,000	144,000
SUBJECT PRODUCTION IN THE SECTION	1.5TV.HUF 192,000	182,400
The roles Comparenties have Indian	224,000	212,800
the series nate of their lord t	D. Chast 256,000	243,200
I recommend that the Earent Compo	16일 - 영화 교육((1981) 1981 - 1981 - 19	304,000
see to quest an anconditional of	352,000	343,200
A propertised timescall foundballs	352,000	363,200
9	352,000	348,480
6	384,000	348,480
11	320,000	316,800
No. 12 Day Makat land	256,000	253,440
ile. Viswick Anges ik. Frier Tony		131,200
Copy to: M. Mayd Ferris	Section of the Section of the	80,000
TOTAL	3,200,000	3,200,000
Interest on construction @ 22% p	o.a. (1.83% p.m)	- \$326,419 \$325,000

Y 17 agr - 1

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SUMMARY OF DEVELOPMENT COST	<u>s</u>		
Land			\$2,000,000
Interest on Land @ 18% p.a.	3,270,900		360,000
the state of the s	st Cerober 1 2 martis	987 to 10 -	3,200,000
Interest on construction	C.5.08		325,000
Design Fees		32,696	180,000
R.E. fees (Leasing)		160,000	80,000
Legal		1927000	20,000
* 4		2,81, 100 e	\$6,165,000
TOTAL COSTS		\$6.165	<u>m</u> 2311, 13
Value Income \$798,321 p.a.	@ 10% ==	say	\$8.0 m
4 - 4	9%	15.1. Nor	\$8.87 m
And the state of the state of	8.75%	30.2 (12)	\$9.12 m
Capital gain/equity	minimum	392, 10	\$1.84 m
T. C.	maximum	324,800	\$2.96 m
Return on cost	12.95%	p.a.	3171410

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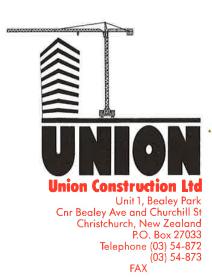
\$798,321

LEASABLE AREAS:

First: 6490 ft²
Second: 6490 ft²

Second:					3,200,036
	6490 ft				Ada, ita
Design Poor	19472 ft		0 \$18		\$350,506 p.a.
Fourth and ()	6490 ft				14位,12位。 14位,12位
Fifth	6490 ft	A.			1, 313
4. 4.	 12980 ft		@ \$20		259,600
Sixth Salconies			0 \$21		82,565
Batcontes	t)		9 -		
First, Secon	d, Third -	3 x 370	ft ² x \$18	x 50%	9,990
Fourth & Fif		2 x 370	ft² x \$20	x 50%	7,400
Sixth	1 22 Jan 1 1 1 2		* 0 \$5	say	16,500
			TOTAL RI		\$726,561
The second second		arks @ \$	30	` v ,	71,760

TOTAL INCOME



FAX MESSAGE

ATTENTION: Mr Don Mc Farlane

FIRM: Angus Construction (Well) Ltd

FAX NO: 04-662-480

FROM: M Brooks / T Scott

NO. OF PAGES (excluding this one)

COMMENTS:

NB - Our Fax is manual and is therefore operational during office hours only.



Cnr Bealey Ave and Churchill St

Christchurch, New Zealand

P.O. Box 27033 Telephone (03) 54-872 (03) 54-873 FAX

MEMORANDA

TO

Directors

FROM

A J Scott

SUBJECT

Allocation of Overheads and P&G in Contract

Estimating, for comment.

DATE

21 September 1987

A) Hourly Rate

Carpenters working Saturday Morning.

	\$616.26
10.53	
52.69	
26.09	
	526.95
11.41	
1.33	
1.65	
52.43	
24.21	2
16.14	
36.32	
60.54	
322.92	
0.277	
\$7.796	
	0.277 322.92 60.54 36.32 16.14 24.21 52.43 1.65 1.33 11.41 26.09 52.69

12.57/Hr

A similar exercise is done for Leading hands, Hammer-hands, Labourers and Apprentices.

These rates are then averaged depending upon the number and mix of skills on a particular contract, and is referred to as the "composite crew factor".

The accuracy of the calculated hourly rate is important when estimating for a contract in excess of 50,000 man hours.

Present Union construction contracts are priced at \$14.00 (Opawa Road) \$13.50 (Octagon Towers and Verkerks \$13.00 (Cathedral Properties and Amuri Corporation).

In the case of a Cost Reimbursable, or a Negotiated contract, where the hourly rate is disclosed to the client, a new rate would be assessed to include for a) Consumables, b) Small tools, c) Vechicles,

d) Overheads.

This would then make the agreed margin net rather than gross.

The intech computer software now operating has the facility to report on average Labour rates per contract per week.

B) Labour Man-Hours

These are assessed by the estimator, based upon feed-back from previous completed contracts, and by detailed assessment with the construction management. ie: Formwork Systems, Craneage, work sequence and specific personnel.

Wet-time is allowed for as a lump-sum depending upon the time of the year and type of contract, eg: Durham Towers approximately 400 wet-time hours were incurred out of 76,000 over 21 months.

Wet-time can be treated as a risk item, or averaged out and included in the hourly-rate. Non-productive time and attendance on Sub-contractors is included in the respective trade-costing and not in P&G.

C) Preliminary and General

All direct site related costs are included as a contract cost under the following headings:

* enclosed breakdown

Preliminary and General is one of the more difficult areas of contract Costing for the estimator, as expenditure is dependent upon how the contract is set-up and supervised. Numerous items require advice from Construction Management.

Plant and equipment are to be allocated from Plant cost-centre.

D) Overheads

Assuming that overheads are not included in the hourly-rate of P&G then this item must be included in the Gross margin.

The overhead percentage is dependent upon turnover and in the case of Union Construction is approximately 3.2% ie \$355,300 (excluding Plant depreciation 11,072,308 and interest on debenture)

Gross margins for tendered work in Christchurch are between 3% and 6% and most Christchurch Contractors treat overheads as part of Gross margin.

Margins for Design-build and negotiated contracts are 6% - 10% depending upon the extent of expertise given by the Contractor to the client, the feasibility of financial return of the project, and the degree of risk taken when submitting a firm price on preliminary drawings.

Your comments on these guidelines are to be discussed at the Management meeting of 24th September so that a definite Policy may be adapted.

A J Scott

To: Mr Don McFarlane Mr Warwick Angus Mr Peter Tong

Copy to: Mr Lloyd Ferris

* OCTAGON TOWERS - PRELIMINARY & GENERAL

SUMMARY

LEVY'S & FEES

Development Levy

Permit Branz

Insurances C.A. Risks

SUPERVISION

Site Manager

Vehicle

TOWER CRANE

Rental months

Erection, climbing & dismantle

Driver & Dogman

Loading Platforms and tie-ins

SITE ACCOMODATION

Gantry & 4 Portacoms

Footpath rental

Construction Loading zone

Hoarding

Office & Site Expenses

TEMPORARY SERVICES

Toilets, Drainage & Water

Compressed Air Temporary Power

SCAFFOLDING

Stairs & Elevator-shaft

Podium Levels
Roof Level

Perimeter rails Cable-climber

MISCELLANEOUS

Security Surveyor Telephones Signboard

Plant and equipment

Consumables & small tools

Clean up

Waste-takers

Final clean

TOTAL OF PRELIMINARY & GENERAL

UNION CONSTRUCTION LTD

Report to Management Committee Meeting

Computerised Financial Control

A visit to Angus Construction Wellington was made by Mike Brooks and Tony Scott on Thursday June 4th, for the purpose of investigating their in-house Computer System.

The extent and details of the Intech Software was explained by Accounts and Administration staff (Chin Chye Lee and Murray Armstrong) including Contract Costing, Subcontractors and Creditors, Payroll and Costing, Plant and General Ledger.

The various categories of the intech system are very compatible with Union Constructions envisaged requirements, although on a smaller scale, for the first year of operation.

We were impressed with the total control Angus staff had on Data input, checking of print-outs and experimentation to fine-tune the programmes, by the use of an additional Terminal and programme.

It is our recommendation that a similar computer facility be installed in Union Constructions offices in liason with Lawrence Anderson Buddle.

Two of our existing staff are experienced in Data processing and have spare capacity available to operate the system. Another benefit of in-house facilities is that Management and Staff are able to work the system and become totally conversant with its capabilities.

Further programmes for programming; estimating and historical analysis of contracts are available on the market, presently and may be added to the Intech facility, if required.

We propose a budget of \$25,000 for the supply of a two-terminal A.T. Computer along with the associated Intech software.

A detailed quotation from Intech Christchurch is enclosed for your information.

A.J. Scott DEVELOPMENT MANAGER 18.6.87



BURNS & FERRALL (S.I.) LIMITED.

106 CARMEN ROAD, CHRISTCHURCH, NEW ZEALAND P.O. BOX 16105, HORNBY 4. TELEGRAPHIC ADDRESS 'BURFER'. TELEPHONE 495-394

STAINLESS STEEL FABRICATORS

OFFICE COPY

18 September 1986

Williams Construction Limited, P.O. Box 538, CHRISTCHURCH.

Dear Sir,

Re: Development Job

Further to our recent conversation, please find enclosed the drawing and price for the stainless steel columns.

If the price meets with your approval we would require an order number and exact measurements before commencing the job, G.S.T. is not included in this price.

Yours faithfully, BURNS & FERRALL (S.I.) Limited

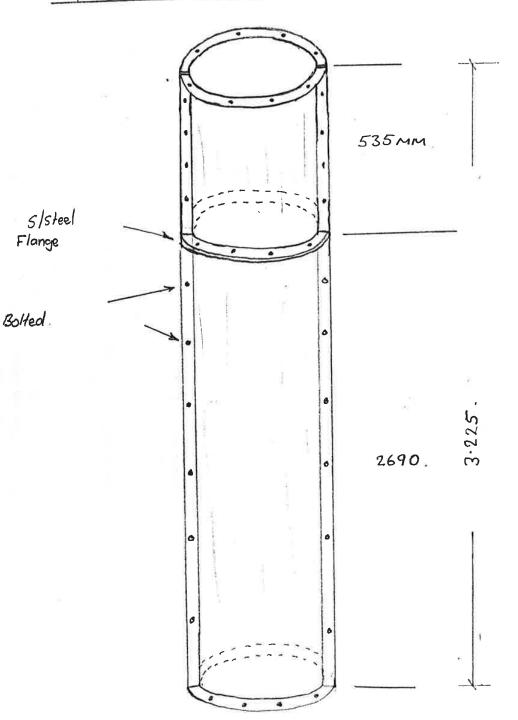
Andy Innes

RECEIVED

BUI.MAD249.0324.43 (S.I.) LIMITED.

STAINLESS STEEL FABRICATORS

COLUMNS. OF



Yours FAITHFULLY ANDY INNES

QUOTED \$597 EACH SET.

12.

ALAN M. REAY CONSULTING ENGINEER

147 KILMORE STREET BOX 25-028, VICTORIA ST. CHRISTCHURCH, 1.

Telephone: 60-434

File 2993

ALAN M. REAY B.E. (Hons.), Ph.D. M.N.Z.I.E. Registered Engineer Structural Consultant

18 November 1987

Mr M. Brookes, Managing Director, Union Construction Limited, P.O. Box 27-033 CHRISTCHURCH

Dear Mike

Re: AMURI - MANDEVILLE STREET STAGE IIA

As requested by Amuri Corporation, we enclose four copies of the drawings and specification for this proposed building. Could you please provide a quotation for the erection of this building on or before the 2 December 1987.

The erection of this building will influence the development of other buildings on this site and it is therefore necessary to determine which building will be erected next at an early date.

The following trades are not finally determined and therefore P.C. sums should be allowed as follows:Drainage \$5000.00
Electrical \$50,000.00
Site Works (Outside building area) \$20,000.00

Yours faithfully,

Dr A.M. Reay

c.c. Mr D. Brown Amuri Corporation

No talet wat like



H26174

2 December 1987

Alan M Reay Consulting Engineer PO Box 25-028 CHRISTCHURCH

Dear Sir

AMURI - MANDEVILLE STREET STAGE II A

We have pleasure in submitting our quotation for the above proposed development in accordance with plans, specifications and your letter of 18 November 1987 amounting to \$659,126.00 (Six hundred and fifty nine thousand one hundred and twenty six dollars).

This price is based upon current materials prices and labour awards, being subject to fluctuations in accordance with NZS 623.

We are in a position to commence work on site when the Building Permit is available, and envisage a construction time of six months.

Trusting this quotation to be acceptable we enclose our summary schedule and await your advice.

Yours faithfully

A J Scott DEVELOPMENT MANAGER

AJS:MG

RICCARTON ESTATE AMURI CORPORATION

STAGE II A

Preliminaries	46,204.00	
Excavation & Hardfill (No removal of existing foundations) 150mm hardfill allowed	3,990.00 19D	Laings
Drainlaying P.C Sum	5,000.00	Union
Week Concrete Work 50'	126,797.00 * DK:	
Structural Steel	36,250.00	C S F
Week Reinforcing steel	30,921.00*	Fletchers
there carpentry there:	53,002.00 \$6,000.	Union
Joinery	8,095.00	J Hooper
√ Suspended Ceilings	39,140.00	Angus
√Tiling	18,902.00	Brymac
Vinyl Flooring	3,621.00	Reese Bros
/ Metal Windows	103,948.00	H I Products
/ Roofing	27,750.00	Wayman
Painting	13,000.00	Spectrum
# Plumbing	26,230.00	P Diver
/ Glazing	5,015.00	Oakleys
Electrical P.C Sum	50,000.00	50,000.00
Siteworks P.C Sum	20,000.00	
Hardware	10,039.00	Architectural Hardware
Contractors Margin	31,222.00	
TOTAL	659,126.00	
*	6,400	

PHILLIPS SHAYLE-GEORGE

BARRISTERS SOLICITORS AND NOTARY PUBLIC

Government Life insurance Building, Customnouse Quay, Weilington, New Zealand (Ciffices at Auckland and Lawer Hurt)

PO Box 3791 Wellington FAX (C4) 727 429 Telex NZ 30924 Telephone (C4) 726 299

FACSIMILE COVER SHEET

Matter No:

UNI08546-001

Date:

11: September 1987

Fax No:

(03) 54-873

Please deliver the following pages to

Name:

M. J. Brooks

firm:

Union Construction Limited

Address:

Unit 1 Bealey Park, Cnr Bealey Ave and Churchill

Christchurch

Telephone No:

Name of Sender: M. P. Shelton-Agar

Message:

Please peruse attached Affidavits and advise of any changes/alterations required. I need to know of any changes before 4.00pm today.

Confirm will subsequently courier to your home address the completed Affidavits for swearing.

Regards.

M. P. Shelton Agai

ATS page + clause 20

.

Transmitted by:

. . . pages transmitting (including cover sheet) - Group 3 Canon

Denis Grenville Thom Bruce Charles Davidson Alasdair Donald McBeth Gerard James Coles Paul Vincent May Malcolm Paul Shellin 1988 William Hoss Mulholland Richard Norman Martin Richard James Buxton Fowler Mark Francis Ford Sean Martin O'Sullivan Melvine James Easton

Michael Robert Camp Gray Stratton Thompson Graig Andrew Leishman John Calvin Craig Anne Elvera Gaskeil

John Russel Strahl Paul Harry Westbury Craig Martin Stevens Chnstopher Patrick Hunt Udyd John Callins

IN THE HIGH COURT OF NEW ZEALAND CHRISTCHURCH REGISTRY

8/ 07/11 14+70

No. 321/87

BETWEEN WILLIAMS CONSTRUCTION (CANTERBURY) LIMITED

Plaintiff

AND M.J. BROOKS

First Defendant

UNION CONSTRUCTION LIMITED AND

Second Defendant

AND CATHEDRAL PROPERTIES LIMITED

Third Defendant

I. ANTHONY JOSEPH SCOTT of Christchurch, Quantity Surveyor, swear:

1. I have read the Affidavits of Tan Adrian Lloyd Patterson, Denis Matthew Sheard and Stephen James Smart in support of the Application for the + M.T. Brooks. Interim Injunction and in answer say as follows,

2. I have been a Quantity Surveyor since 1970 and became registered in 1977.

3. I started with the Plaintiff company on the 5th of August 1985.

General Background

4. AS a Quantity Surveyor and by way of general background I have three different approaches I take when a job is presented to me for pricing, depending on the nature of the way the job is presented.

- 5. THE one relevant to these proceedings is what I call a negotiated tender on partial documents.
- 6. WHEN I am asked to price a job on the basis of a hegotiated tender on partial documents I would usually be presented with preliminary architectural and structural design drawings along with an outline specification.
- 7. I would then measure preliminary quantities on an elemental analysis basis i.e. that means it follows a pattern; in a multi-storey building you would measure the foundations, upper floors, structural frame, exterior walls, plumbing, electrical, etc.
- 8. USUALLY subcontractors would be negotiated for with the specialist trades i.e. curtain walling, surfaces and interior finishes.
- 9. THE most important point to remember on this particular type of negotiated contract is to qualify your tender submission with a prief specification delineating the documents, the methods of construction and the subcontractors used.
- 10. THE Cathedral Properties job was a negotiated tender on partial documents.
- 11. ON or about the 23rd of December 1986 I was presented with a schedule of reinforcing contents from the Structural Engineer along with drawings P3 and P4 (which are structural drawings), along with architectural drawings numbers 1-4 including a preliminary outline specification. By normal standards this was very brief information.
- 12. I started work on pricing the job on the 11th of Danuary 1987. I knew that two other

contractors were doing the same exercise. I believed them to be Downer Construction and Armitage Construction.

- 13. MANY subcontractors had been approached by these two companies over the holiday period and I made contact with many of my contacts around Christchurch who had already put a subcontract price in place.
- 14. THESE prices were subsequently forwarded to me at the Plaintiff company and I completed my elemental analysis based on the drawings provided.
- 15. THE first preliminary estimate was submitted on the 20th of January 1987 and the figure was \$2.146 million.
- 16. SUBSEQUENTLY an updated fixed price tender was submitted. Fixed price tender means that you put in the tender an allowance to account for fluctuations for price.
- 17. THE fixed price tender excluded the elevators and amounted to \$2.185 million and was submitted on the 11th of February 1987. At the same time a cash draw down was submitted to Cathedral Properties. A cash draw down is a monthly estimation of progress claims throughout the duration of the contract.
- 18. THIS price was still based on the preliminary drawings and I was aware that if drawings were changed by the consultants the price would have to be updated.
- 19. IN or about early March 1987 revised drawings were received by me from Cathedral Properties' consultants but were not acted on by me.

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- 20. THE biggest difference between the revised drawings and the preliminary drawings provided to me were that the reinforcing steel element in the revised drawing was now drawn up which superceded the schedule of reinforcing contents previously drawn up, which had a significant effect in increasing the cost of the job.
- 21. I took no steps on these revised drawings at this stage because I felt there was so much new detail coming through that the job would have to be repriced and I would commence to do that once all the information was in.
- 22. SUBSEQUENTLY I was advised that the Plaintiff company had not been successful in its tender to Cathedral Properties.

Post-Resignation Cathedral Properties

- 23. I left the Plaintiff company on the 30th of April 1987 and started with the Second Defendant on the 1st of May 1987.
- 24. MY first job with the Second Defendant was the Cathedral Properties job.
- 25. I took took no documents with me relating to any jobs whatsoever when I left the Plaintiff company.
- 26. AS with the Plaintiff company the pricing of the Cathedral Properties job by myself for the Second Defendant was on the basis of a negotiated tender.
- 27. HOWEVER on this occasion I was provided with structural drawings S1-21 inclusive as well as architectural drawings 1A to 31A inclusive being

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in total almost 50 drawings compared to the six was given when I looked at the job for the Plaintiff company.

- 28. BY the time I had joined the Second Defendant Mr Brooks had approached most of the subcontractors to explain the new company and inviting them to submit quotations for the Cathedral Properties contract. On the new plans quotations were necessary because of the change in the plans and specifications.
- 29. THE Structural Engineer's plans were very much delayed and in fact the final details were not received until the end of May 1987.
- 30. THE Second Defendant's fixed price was submitted on the 18th of May 1987 at a substantially increased figure from that submitted by the Plaintiff company, the new figure being \$2.632 million.
- 31. WHEN I worked on this job for the Second
 Defendant I relied on no previous documentation
 whatsoever and got completely new information from
 the consultants for Cathedral Properties.
- 32. I relied on my expertise as a Quantity Surveyor to price the job.
- 33. I priced the job for the Second Defendant on a detailed schedule of quantities prepared by myself as opposed to the elemental analysis method I used when with the Plaintiff company. In the elemental analysis method you use bulk rates to verify pricing quantities as opposed to the detailed quantity method, where far more detailed rates are involved and naturally a more precise cost can be obtained.

PSG WGTON NZ

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34. THE only "inside" knowledge I could say that I had was the knowledge of the previous subcontractors who had priced the job for the Plaintiff company, Downer Construction and Armitage Construction.

35. IT was certainly the case that when the subcontractors priced the job for the Second Defendant they already had a detailed knowledge of the particular contract from their involvement with the three companies mentioned in the preceding paragraph and I have no doubt that the information available to the subcontractors was in the public domain in the sense that there was certainly nothing confidential about it.

Resignation Issue

- 36. ON the morning of 18th March 1987 I had a meeting with Mr Brooks and Mr Shirtcliff and we all agreed on the principle that we would resign from the Plaintiff company.
- 37. LATER in the day I had a meeting with Mr Patterson in which Mr Shirtcliff and Mr Brooks were present in which I indicated that I was dissatisfied with the way I had been treated by the Plaintiff company, in particular the salary review was overdue by about eight months, and share options had not been considered by the Plaintiff company.
- 38. I stated as firmly as I could that I did intend to leave on the 29th of April being the period of notice that I had given.
- 39. ALTHOUGH I was subsequently offered various inducements to remain with the Plaintiff company

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HOME IMPROVEMENTS PRODUCTS LTD.

PRODUCTS

P.O. Box 27039, CHRISTCHURCH.

TELEPHONE: 844-079

COMMERCIAL DIVISION

6 April 1987

Williams Construction Limited P.O. Box 538 CHRISTCHURCH

Attention Sandy Robertson

Dear Sir

Re Madras Street Development

We have pleasure in confirming our verbal quotation of approximately the 25th March 1987 of \$64,861.00 (Sixty four Thousand Eight hundred and sixty one dollars), for the supply, installation and glazing of all aluminium windows, shopfronts and commercial doors to the above contract all as per plans.

WINDOW CONSTRUCTION

Windows will be fabricated from our 39mm full commercial suite of extrusions, not fitted with timber reveals. Awning sashes are hung on heavy dutyinterlock stays and fitted with wedge fasteners. Generally sections are extruded from commercial grade aluminium (6263T5) with a nominal wall thickness of 2.0mm or greater. Windows have been allowed to be lug fixed all round with aluminium angle lugs. The head fixing details 16 and 17 on sheet A 9 to an ex25mm Rimu reveal would not be strong enough to resist normal loadings.

SHOPFRONTS

Shopfronts will be fabricated from our 100mm range of sections, complete with neoprene dry glazing gaskets, removable cill heads and extruded cill flashing. All joints are mechanically screw fixed. the entry doors will be fabricated from our standard commercial doors extrusions, again with ory glazing gaskets and weather stripping. Hardware includes Gibbons floor springs, Lockwood 590/1 deadlock, special 38mm diameter stainless steel handles, and two flush bolts fitted to the non locking door leaf and doorstops.

FINISH

All aluminium will be finished in 20 micron Dark Bronze anodised.

SEALANT

All aluminium frames are sealed to the structure with Uraflex one sealant. Our price is based upon opening being correctly prepared to give a normal clearance around each window frame without the need of extra sealant or special flashings.

GLASS

Windows will be glazed as per plans/specifications. Generally glass will be 6mm clear float to windows and entry doors and 6mm clear bondlite to glazing bars.

PROTECTION AND CLEANING

Protection will be our responsibility until frames are stored on site or installed at which point any damage would be the main contractors responsibilty. Aluminium and glass will be given a trade clean at installation. No final clean has been allowed for.

PAYMENT

We would require payment for all materials and hardware purchased when received into our factory for manufacture, ie. off site payment based on our suppliers invoices, and our administration costs. We would also require full payment on our invoices within 30 (thirty) days of submission of our invoice on a progress claim basis up to completion of the total contract.

We have NOT Allowed For

1. Scaffolding.

2. Protection and Final Clean (as noted previously)

- Epoxy paints or similar sealing of concrete openings prior to installation of window frames.
- 4. Preparing openings, making good same or any other builders work.

5. G.S.T.

6. No steel windows or doors allowed for.

7. Cranage: With reasonable notice given we would expect to be able to use on site craneage to lift material to each level.

We thank you for this opportunity to quote and look forward to working with you on this contract in the near future.

Yours faithfully HOME IMPROVEMENT PRODUCTS LIMITED

John Hinchey

COMMERCIAL MANAGER

AMURI BUILDING - CHESTER STREET

BUDGET SUMMARY:- (Preliminary)

Foundat	cions and Piles	310,122
Structu	aral Walls and Columns	219,595
Upper F	Floor Slabs	419,184
Basemer	nt car-park	180,000
Structu	ural Steelwork	34,208
Metal a	and Butynol roofing	31,118
Precast	Panels	125,000
Carpent	cry	135,000
Alumini	um Windows	85,000
Plumbin	ng	55,000
Drainac	ge	7,000
Electri	ical	85,000
Joinery	2	20,000
Suspend	ded Ceilings	91,278
Solid E	Plastering	36,000
Elevato	ors	290,000
Floorin	ng	10,600
Tiling		8,234
Paintir	ng	53,140
Glazing	J	4,000
Fire Pr	cotection	21,296
Sitewor	cks	20,233
Prelimi	inaries	190,000
urts	Fixed-Price Contingency	150,000
	Margin	220,000

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TOTAL 2,801,008

to be confirmed early to mid Jone

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-	Design - Build Summary.	9-11-87.
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-	Foundations + filing	223333
	Structura Frame	23,888
	Upper Hoors	428 68
	Basement Carpark	106,083
	Carpentry	176,519
	freeast fonels.	3500
B) Swac	structural steel	34278
-	Metal + Butynol rocking	31,118
	Alaminian Joiner + Hazing	262000
	Plumbing	55,000
	Drainage	7000
	Electrical-Nett Sun	55000
-		
	Joinery	26,000
	Suspended wilings	11278
	solid Plantering	36,000
	Elevators	334500
	Frocing	10600
		8234
	Tiling (Ginting Ginzing	50850
	Fire- Protection	4000.
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	Siteworks Sub-Total	\$ 2591808
	Overhead & Magin.	163,576
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