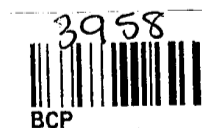


EX SECTION ON ①  
for Sir.

# LANDMARK TOWER · VICTORIA SQUARE

PAYNTER DEVELOPMENTS LTD

WARREN & MAHONEY  
ARCHITECTS LIMITED



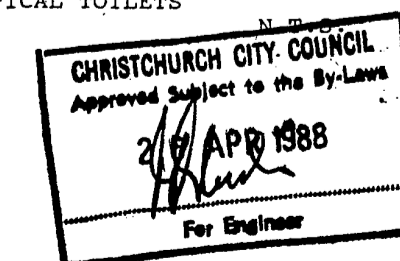
CHRISTCHURCH CITY COUNCIL  
Approved subject to the By-Laws  
21/8 APR 1988  
For Registrar

4 MAR 1988

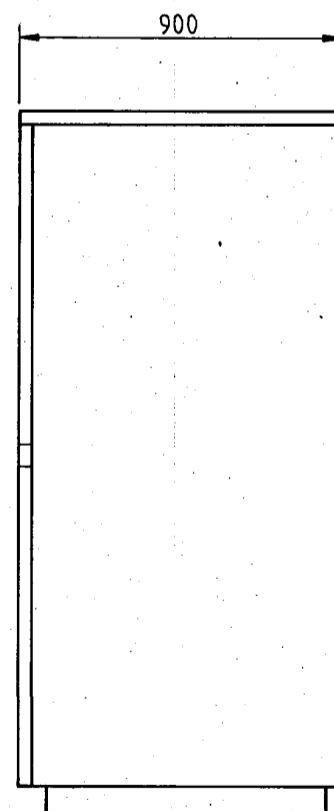
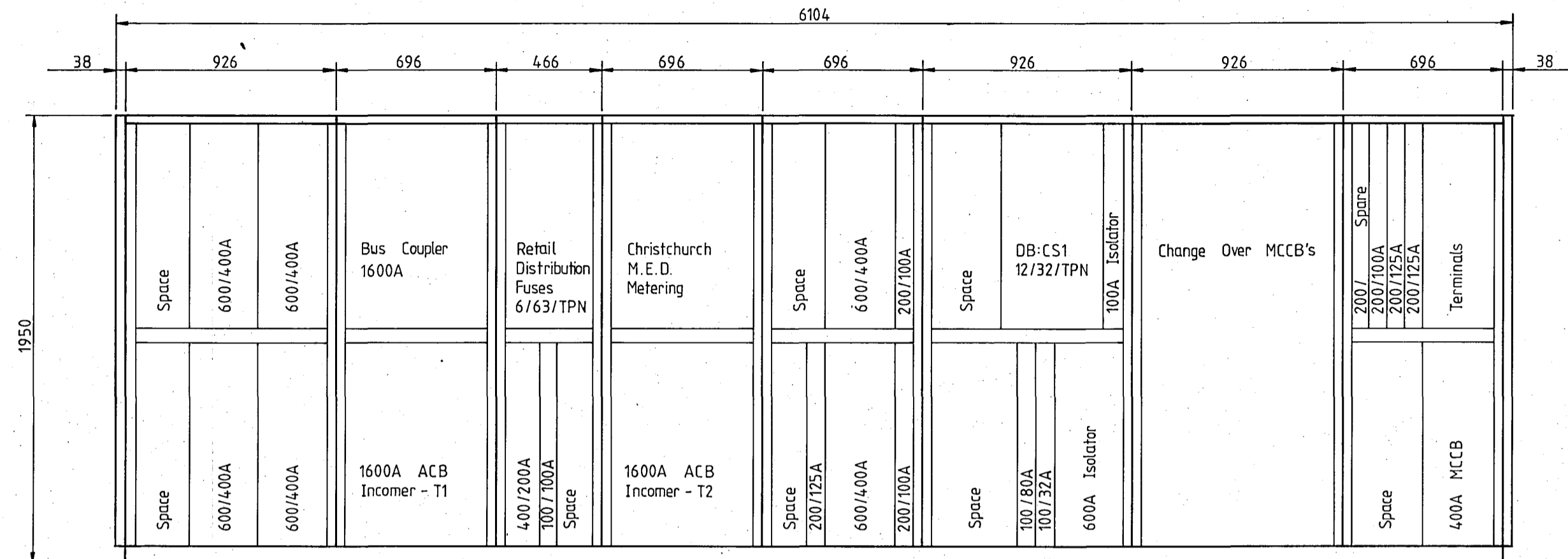
## LANDMARK TOWER CHRISTCHURCH

## SCHEDULE OF DRAWINGS

	DESCRIPTION	SCALE
A0.0	DRAWING INDEX	1:100
A0.1	DEMOLITION PLAN	
A1.1	SITE, BASEMENT, SERVICES, LEVELS	
A1.2	LEVEL 0 PLAN	1:100
A1.3	LEVEL 1 PLAN	1:100
A1.4	LEVEL 2 PLAN	1:100
A1.5	LEVEL 3 PLAN	1:100
A1.6	LEVEL 4 PLAN	1:100
A1.7	LEVELS 5 - 8 (INCL.) PLAN	1:100
A1.8	LEVEL 9	1:100
A1.9	LEVELS 10 - 19	1:100
	SERIES A.2 REFLECTED CEILING PLANS	1:100
A2.1		1:100
A2.2		1:100
A2.3		1:100
A2.4		1:100
A2.5	LEVEL 4 - 8 (INCL.)	1:100
A2.6	LEVEL 9 - 19 (INCL.)	1:100
	SERIES A.3 ELEVATIONS & SECTION	1:200
A3.1	NORTH ELEVATION	1:200
A3.2	WEST ELEVATION	1:200
A3.3	SOUTH ELEVATION	1:200
A3.4	EAST ELEVATION	1:200
A3.5	SECTION 1	1:200
A3.6	SECTION 2	1:200
	SERIES A.4 DETAILS SECTIONS, PLANS & ELEVATIONS 1:100, 1:50	
A4.1	SECTIONS THRU RAMPS	1:100
A4.2	ELEVATIONS LEVELS 0 - 4 (N & W)	1:100
A4.3	NORTH VERANDAH - PLANS, ELEVATIONS, SECTIONS	1:50, 1:25
A4.4	WEST GLAZED SCREENS - PLANS, ELEVATIONS SECTIONS	1:50, 1:25
A4.5	NORTH WEST ENTRY SCREEN - PLANS, ELEVATIONS, SECTION	1:50
A4.6	TYP. BALCONY - PLANS, ELEVATIONS AND SECTIONS	1:25
A4.7		1:25
A4.8		1:50
A4.9		1:50
A4.10		1:50
	SERIES A.5 DETAILED SECTIONS, PLANS & ELEVATIONS	1:25
A5.1	LEVEL 0 CORE PLAN	
A5.2	LEVEL 1 CORE PLAN	
A5.3	LEVEL 2 CORE PLAN	
A5.4	LEVEL 3 CORE PLAN	
A5.5	LEVEL 4 - 19 CORE PLAN	
A5.6		
A5.7		
A5.8	LIFT LOBBY ELEVATIONS, SECTIONS & DETAILS	
A5.9	STAIR ELEVATIONS AND SECTIONS	
A5.10	TOILET ELEVATIONS LEVEL 0	
A5.11	TOILET ELEVATIONS & DETAILS LEVELS 4 - 19	
	SERIES A.6 CONSTRUCTION DETAILS	1:10, 1:5
A6.1	TYPICAL EXTERIOR WALLS LEVELS (4-19)	1:10
A6.2	TYPICAL EXTERIOR WALLS LEVELS (4-19)	1:25
A6.3		
A6.4		
A6.5	CAR PARK RAMP DETAILS	
A6.6		
A6.7		
A6.8		
	SERIES A.7 PLUMBING DRAWINGS	
A7.1	SITE SERVICES PLAN	1:200
A7.2	DRAINAGE SECTIONS	1:50
A7.3	GROUND LEVEL, DRAINAGE SECTION	1:25
A7.4	PLUMBING SCHEMATIC STACK	N.T.S.
A7.5	LEVEL 0 PLAN DRAINAGE & PLUMBING	1:100
A7.6	LEVEL 1 PLAN PLUMBING	1:100
A7.7	LEVEL 2 PLAN PLUMBING	1:100
A7.8	LEVEL 3 PLAN	1:100
A7.9	PLUMBING AT CORE, TYPICAL TOILETS	1:25
A7.10	PLUMBING SCHEMATIC, TYPICAL TOILETS AT CORE	



*As per index*



NOTES

DATE	REVISION
------	----------

**WM** Warren & Mahoney  
Architects  
Christchurch & Wellington

**ROBERT JONES HOUSE**

FOR PAYNTER DEVELOPMENTS LTD

**DESIGN PROPOSAL DRAWING**

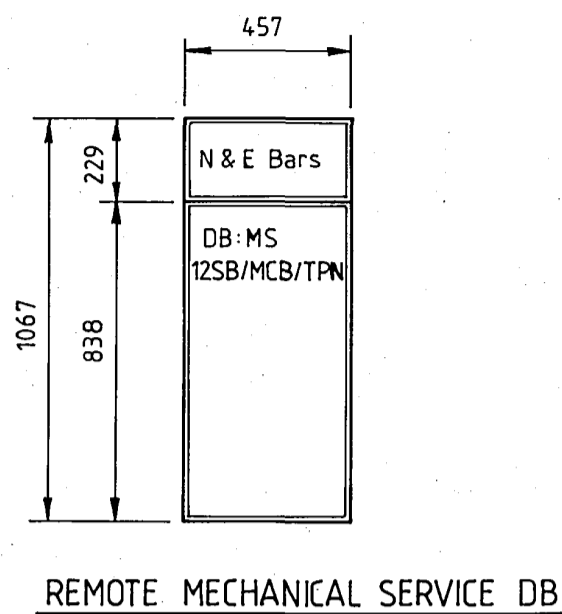
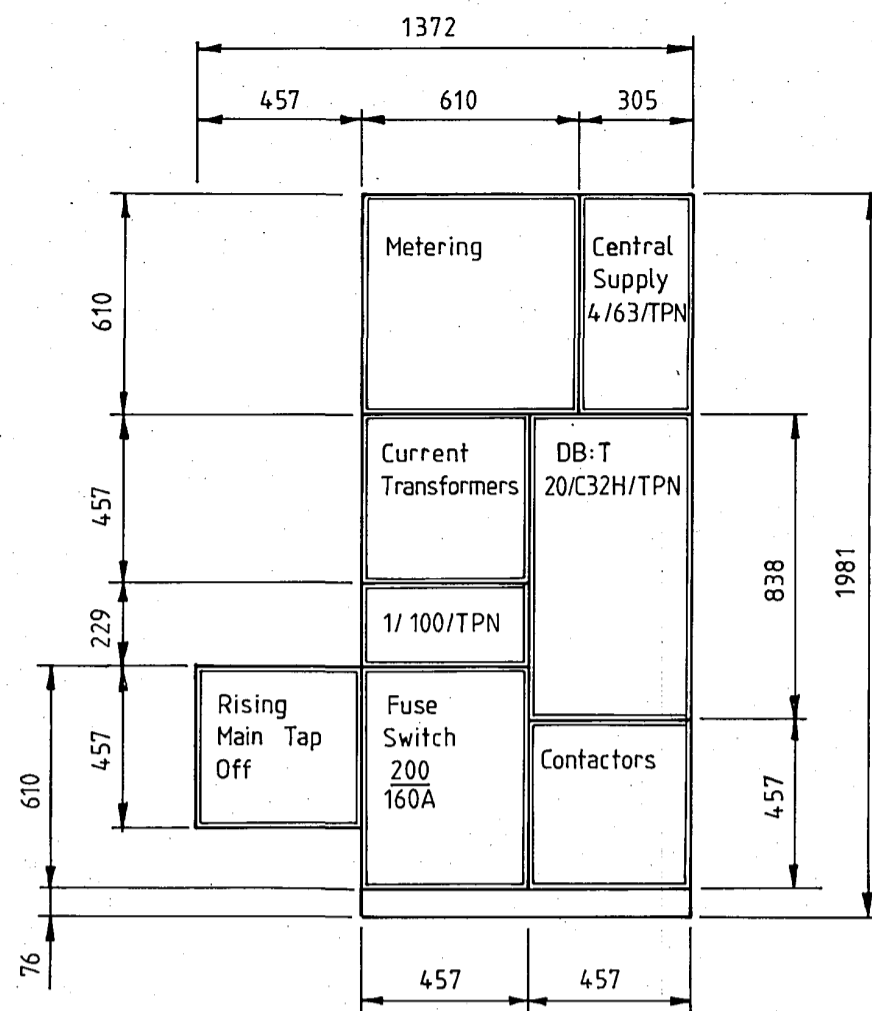
DRAWING  
ELECTRICAL SERVICES  
Main switchboard layout.

**FEDERSEN & PARTNERS LTD**  
CONSULTING ELECTRICAL ENGINEERS  
AUCKLAND CHRISTCHURCH DUNEDIN

SCALES 1:20	SHEET NO. E 2.2
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DRAWN	JOB 2418
DATE FEBRUARY 1988	SET - 3 MAR 1988

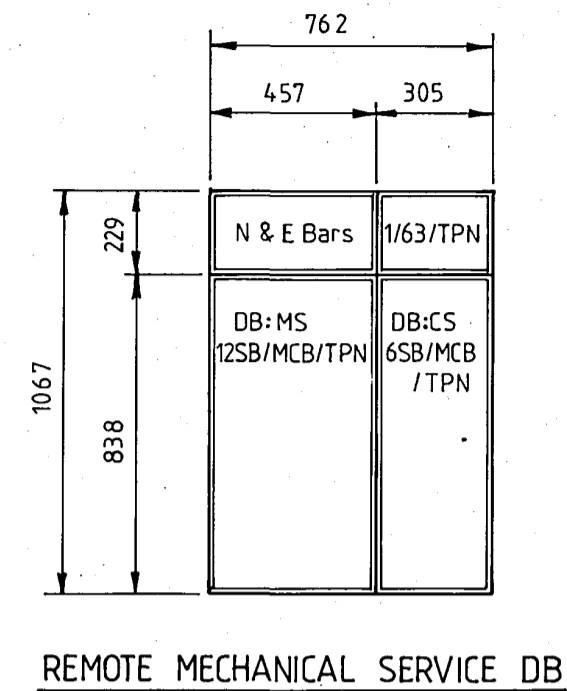
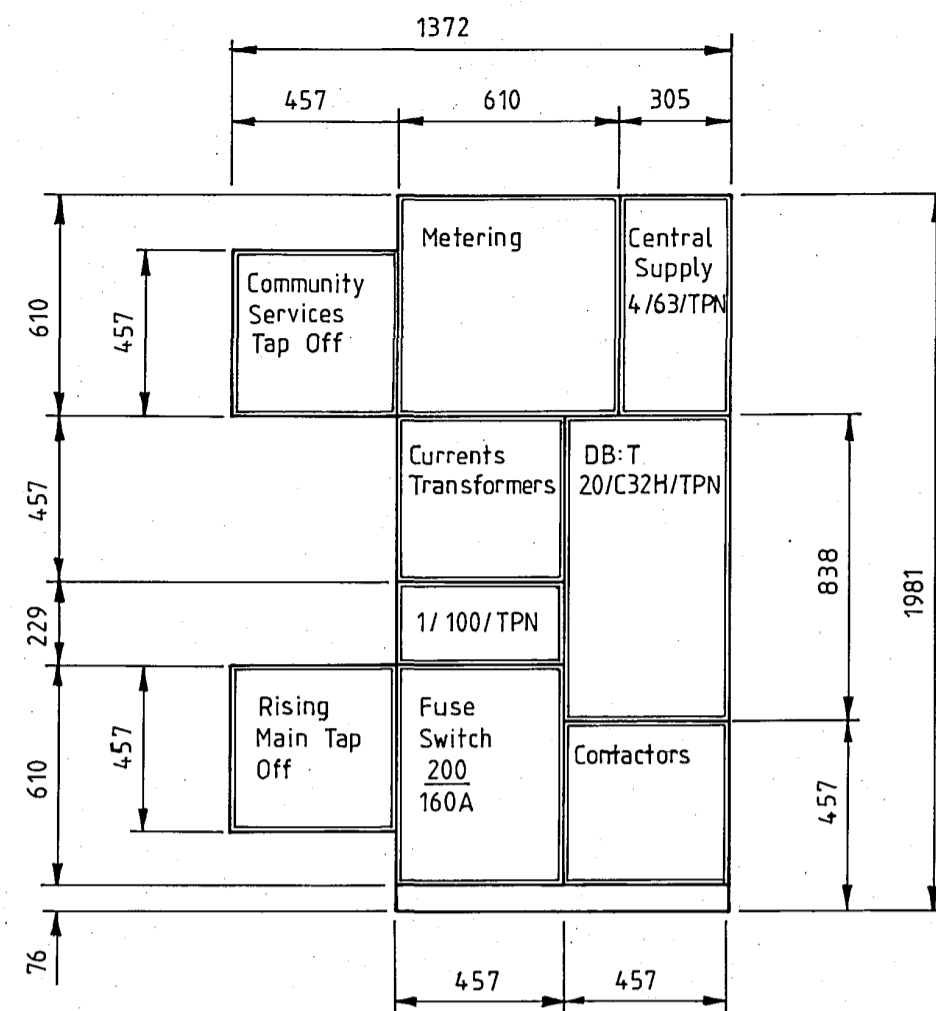
**CHRISTCHURCH CITY COUNCIL**  
Approved under the Building Act 1992  
**26 APR 1988**  
For Signature



**TYPICAL FLOOR DB LAYOUT**

Scale 1:20

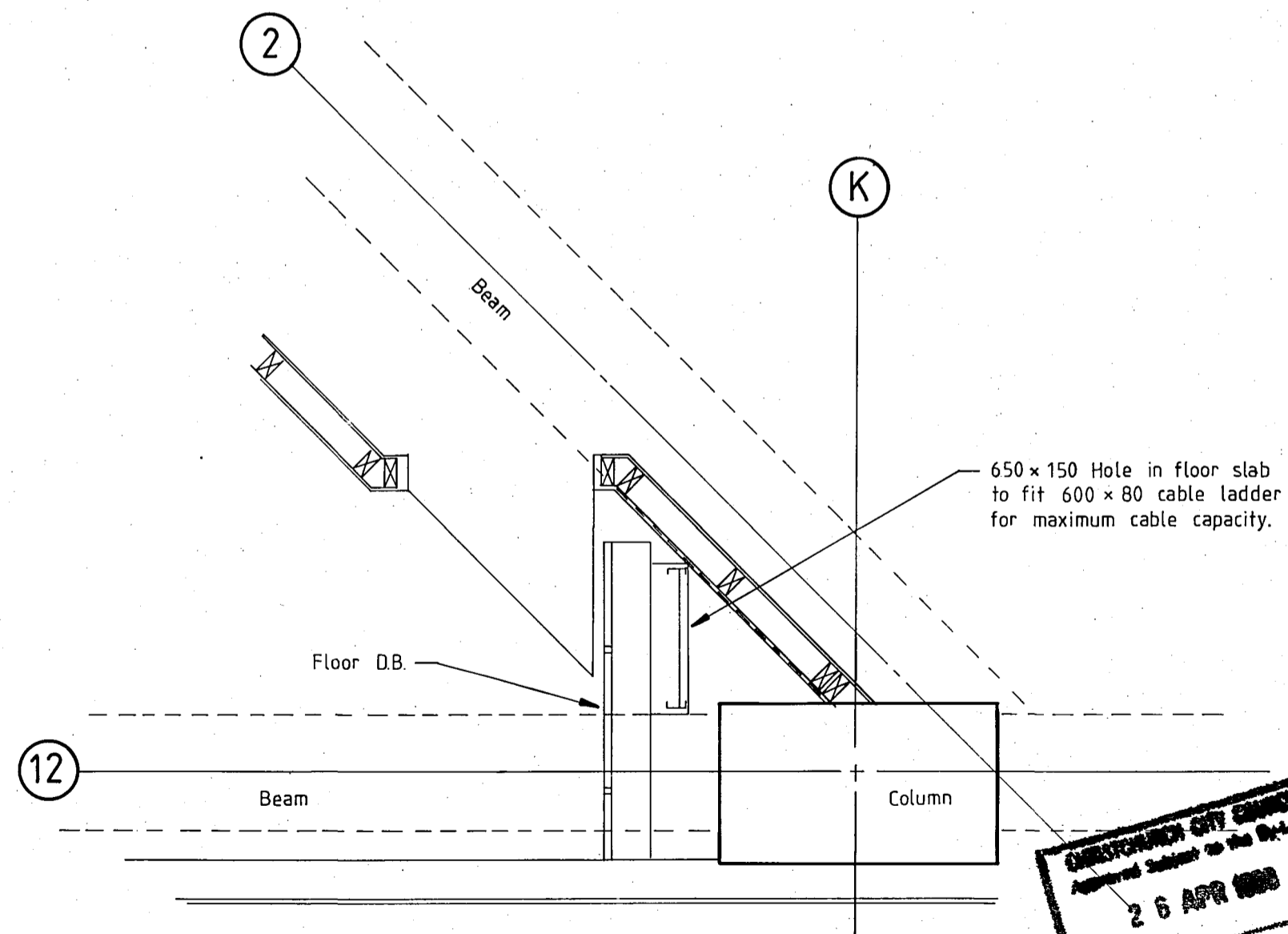
This layout applies to levels 4 5 7 8 10 11 13 14 16 17 & 19 only.



**TYPICAL FLOOR DB LAYOUT**

Scale 1:20

This layout applies to levels 6 9 12 15 & 18 only.



**TYPICAL FLOOR PLANTROOM 1 LAYOUT**

Scale 1:25

NOTES

DATE	REVISION

**Warren & Mahoney**  
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Christchurch & Wellington

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DESIGN PROPOSAL DRAWING

DRAWING  
ELECTRICAL SERVICES  
DB Layouts & details

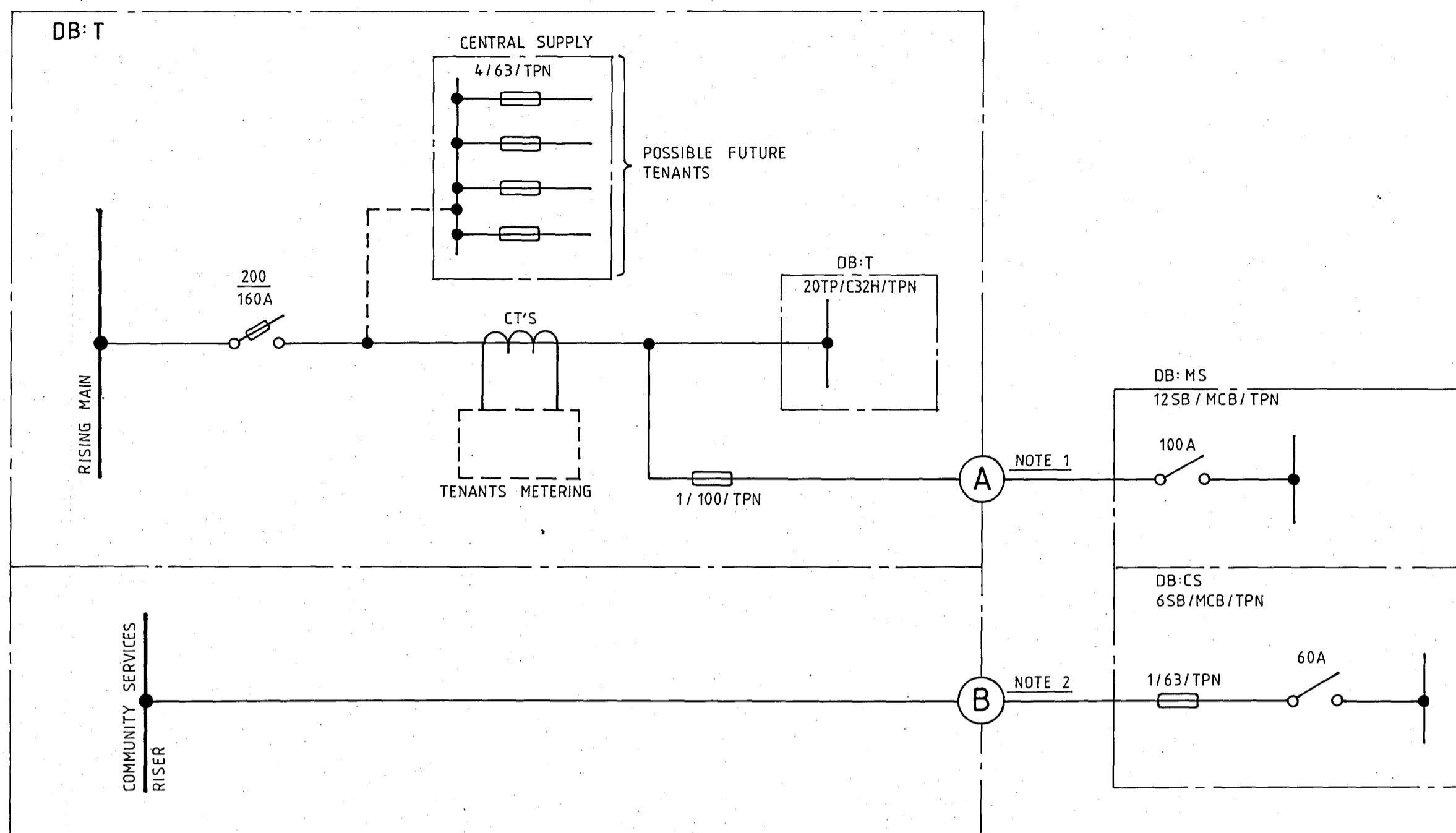
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CONSULTING ELECTRICAL ENGINEERS  
AUCKLAND CHRISTCHURCH DUNEDIN

SCALES 1:20 & 1:25	SHEET NO. E2.3
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DRAWN	JOB 2418
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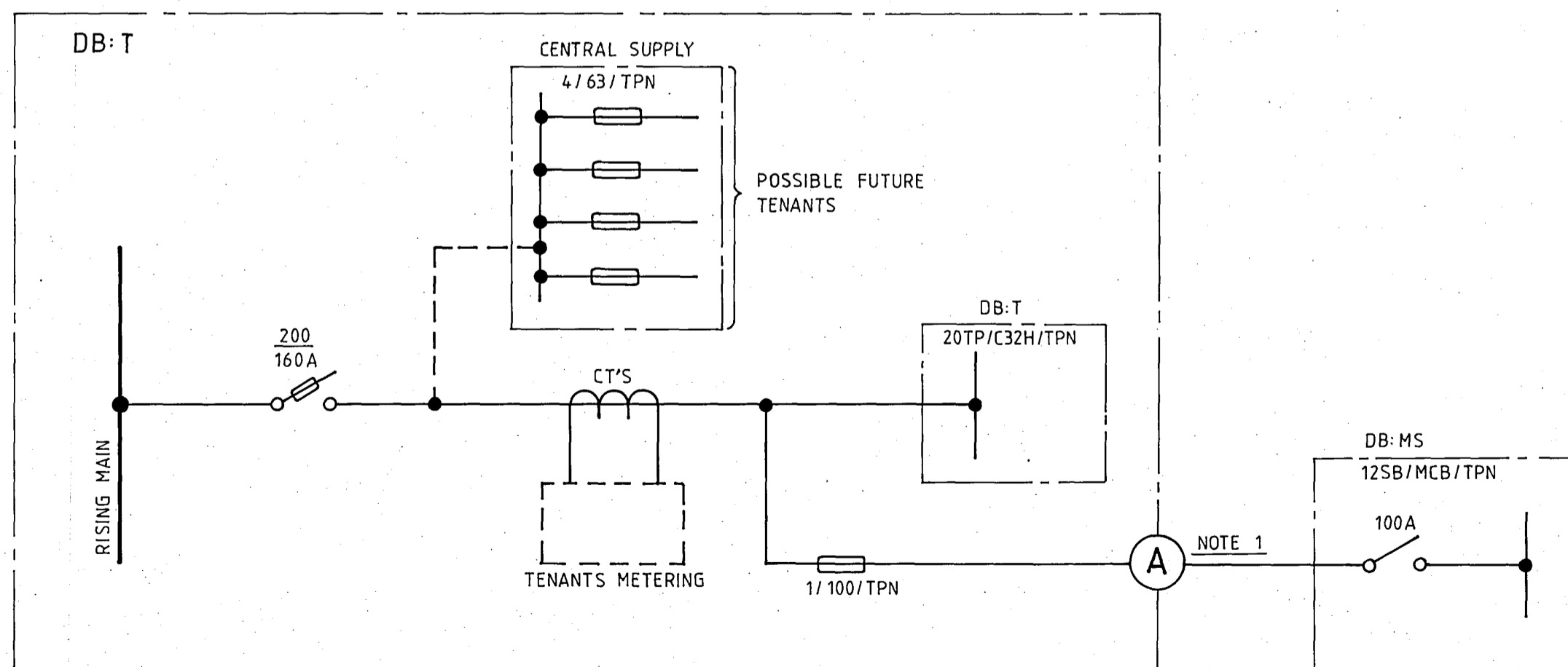
DATE FEBRUARY 1988	SET
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**CHRISTCHURCH CITY ENGINEER**  
Approved Subject to the Conditions  
**26 APR 1988**  
Per Engineer



**TENANTS DISTRIBUTION BOARD SCHEMATIC**

This schematic applies to levels 6 9 12 15 & 18 only



**TENANTS DISTRIBUTION BOARD SCHEMATIC**

This schematic applies to levels 4 5 7 8 10 11 13 14 16 17 & 19 only

NOTES

1. Cable A to be 3 core copper 50mm<sup>2</sup> neutral screened + 25mm<sup>2</sup> E.C.C.
2. Cable B to be 4 x 1 core copper 70mm<sup>2</sup> XLPE/ PVC + 35mm<sup>2</sup> E.C.C.

DATE	REVISION
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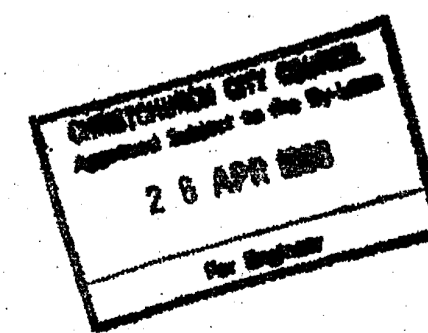
**ROBERT JONES HOUSE**

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**DESIGN PROPOSAL DRAWING**

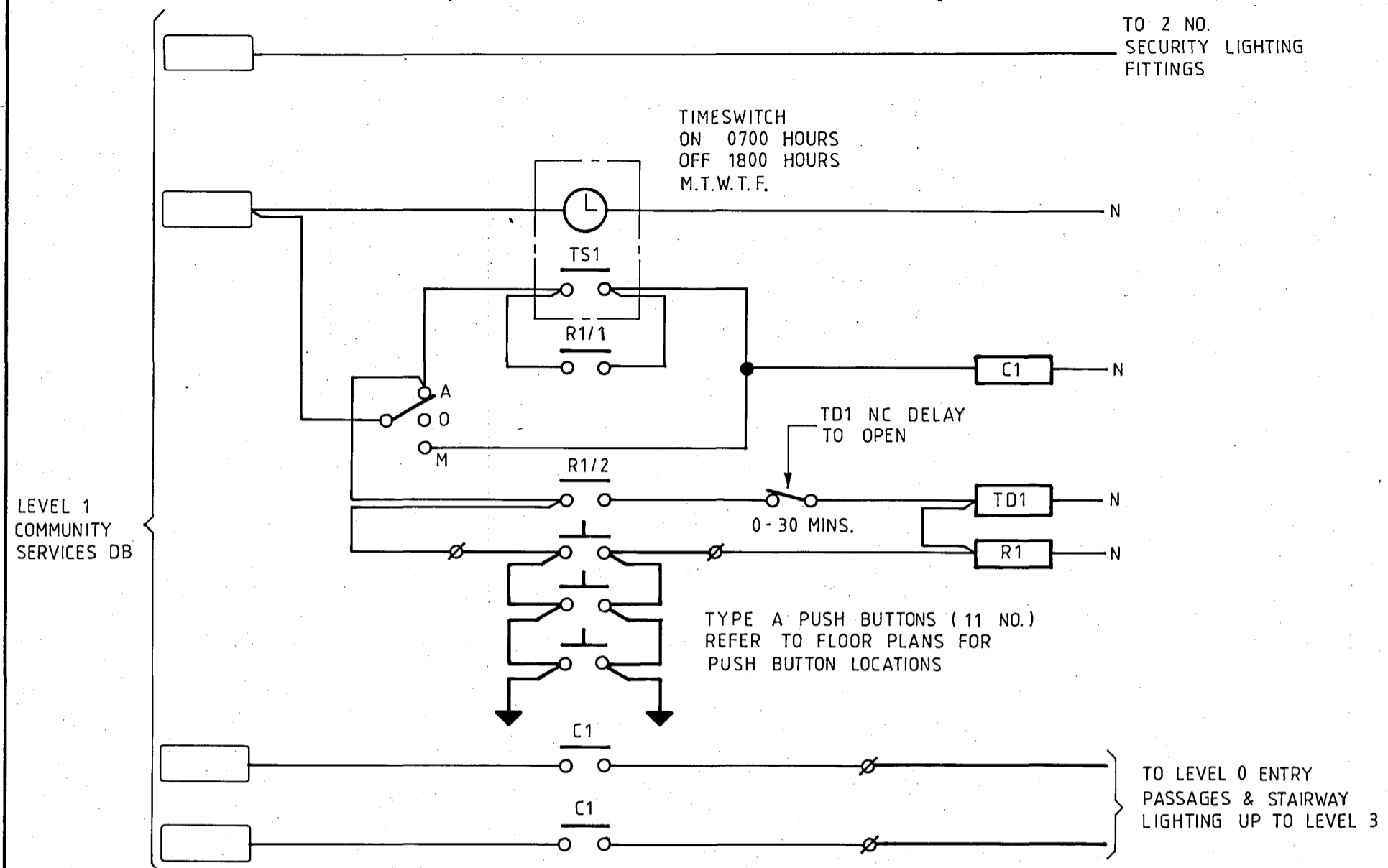
DRAWING  
ELECTRICAL SERVICES  
DB Schematics

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CONSULTING ELECTRICAL ENGINEERS  
AUCKLAND CHRISTCHURCH DUNEDIN

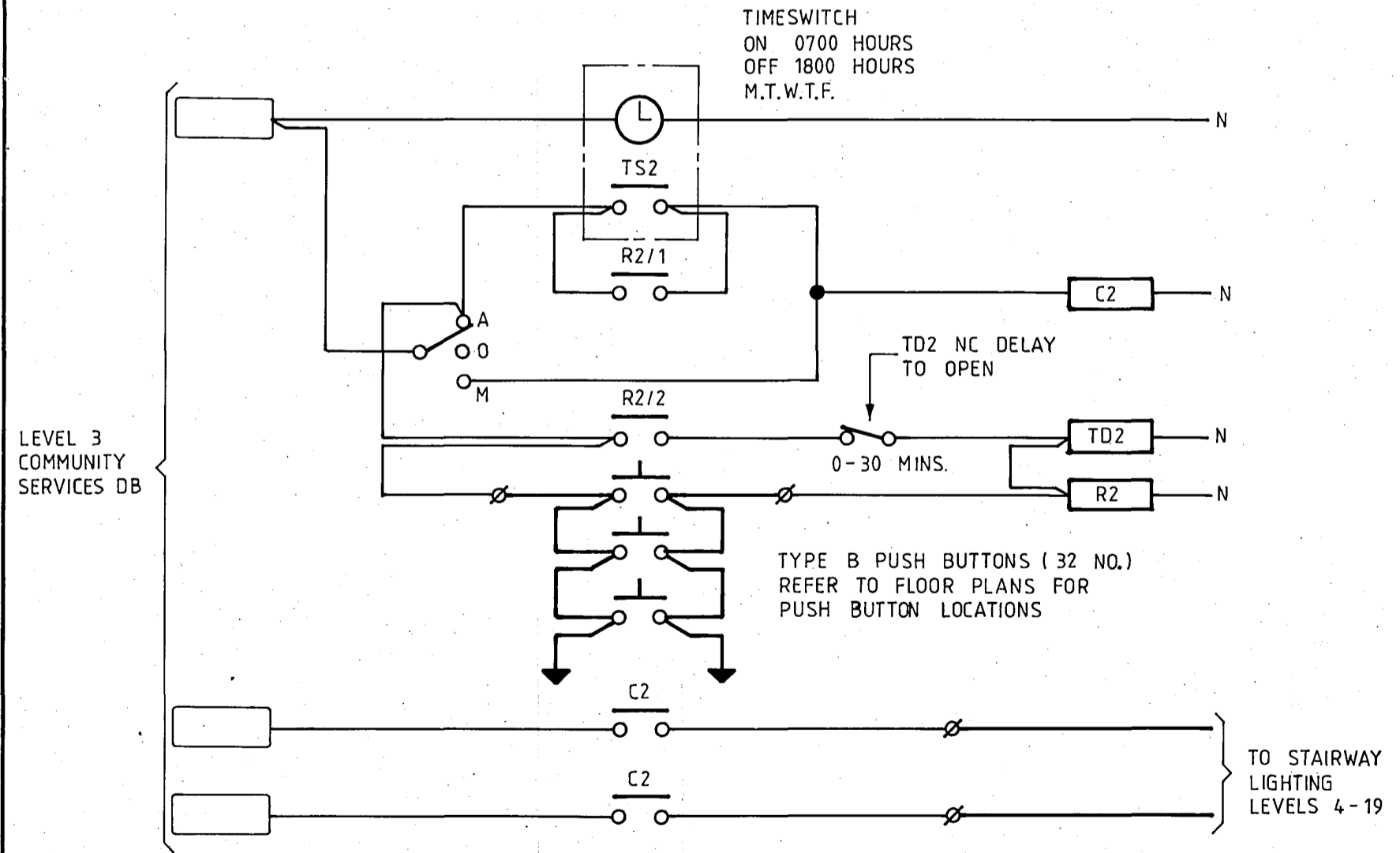


SCALES N.T.S.	SHEET NO. E2.4
DRAWN	JOB 2418
DATE FEBRUARY 1988	SET- 3 MAR 1988

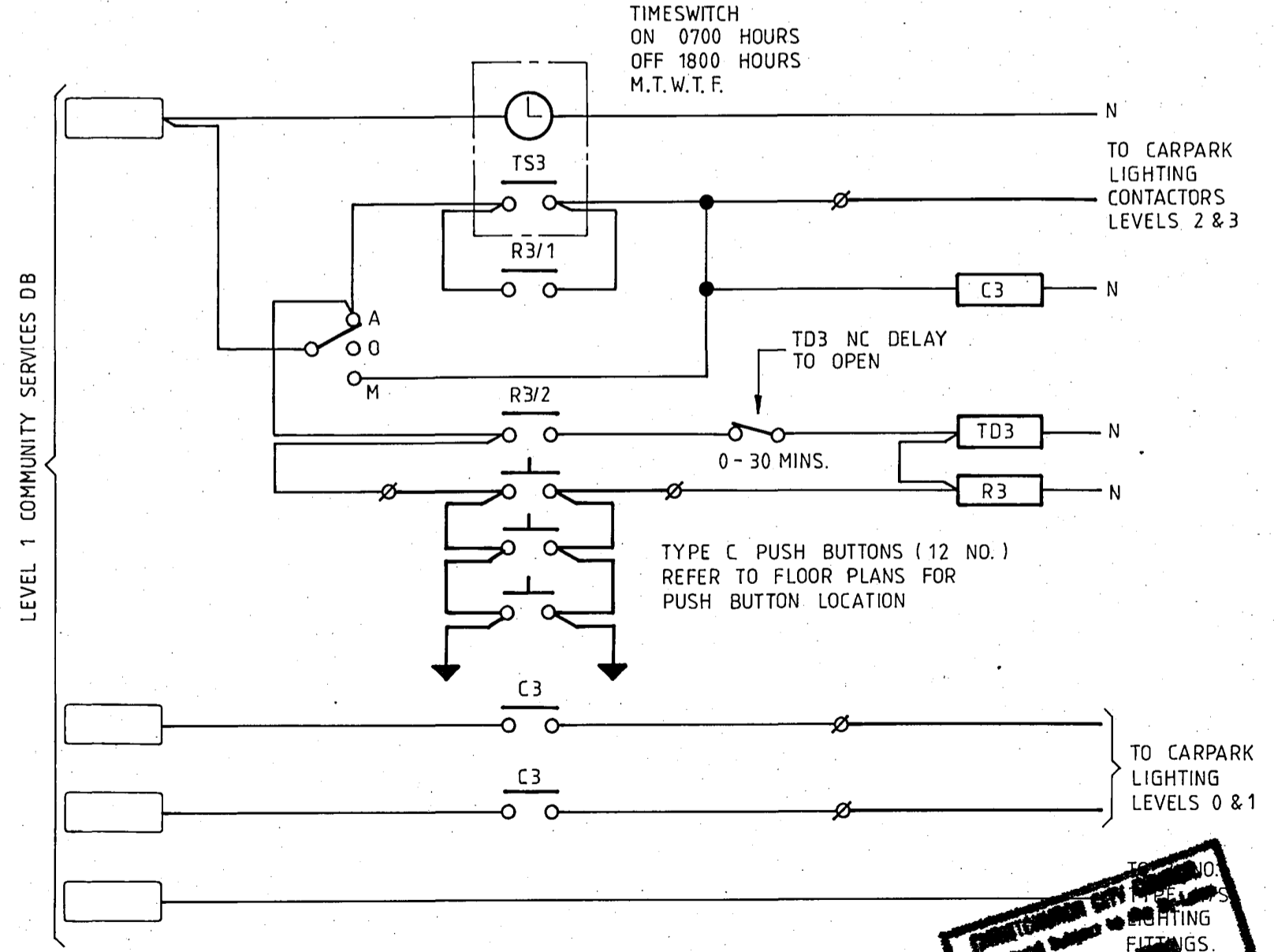
NOTES	



PODIUM STAIRWAY & CORRIDOR LIGHTING CONTROL SCHEMATIC



OFFICE TOWER STAIRWAY LIGHTING CONTROL SCHEMATIC



CARPARK LIGHTING CONTROL SCHEMATIC

CHECKED BY: [Signature]  
 APPROVED BY: [Signature]  
**26 APR 1988**  
 For Engineer

DATE	REVISION

**WM** Warren & Mahoney  
Architects  
Christchurch & Wellington

## ROBERT JONES HOUSE

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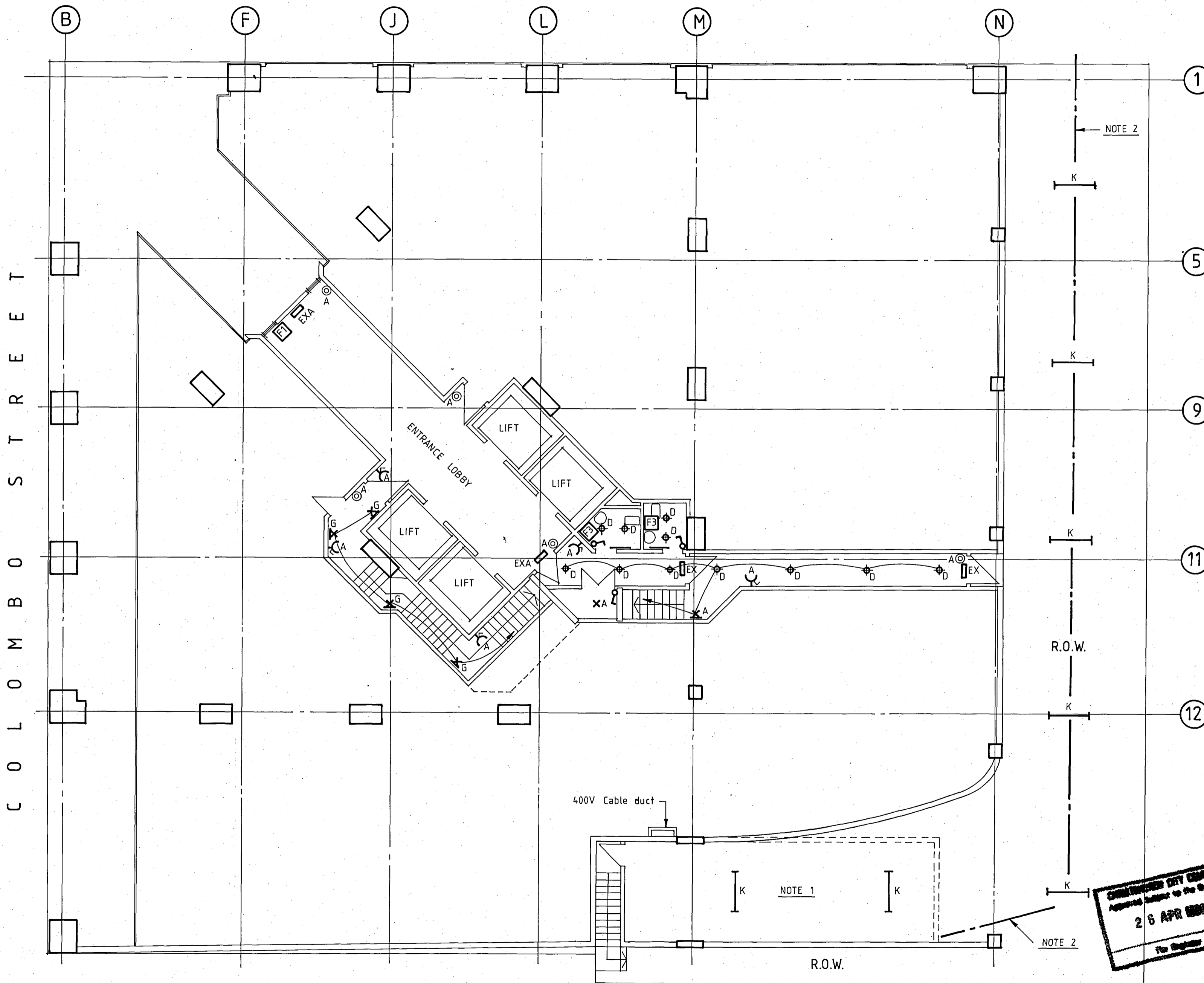
### DESIGN PROPOSAL DRAWING

DRAWING  
ELECTRICAL SERVICES  
Stairway lighting control schematics

**PEDERSEN & PARTNERS LTD**  
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AUCKLAND CHRISTCHURCH DUNEDIN

SCALES N.T.S.	SHEET NO. E2.5
DRAWN	JOB 2418
DATE FEBRUARY 1988	SET - 3 MAR 1988

A R M A G H S T R E E T



NOTES

1. 11kV Substation located below car ramp see sheet E4.1
2. M.E.D. 11kV cabling duct route. Duct consists of 8 ø100 P.V.C. pipes

DATE	REVISION



**ROBERT JONES HOUSE**

FOR PAYNTER DEVELOPMENTS LTD

DESIGN PROPOSAL DRAWING

DRAWING  
ELECTRICAL SERVICES  
Level 0 layout

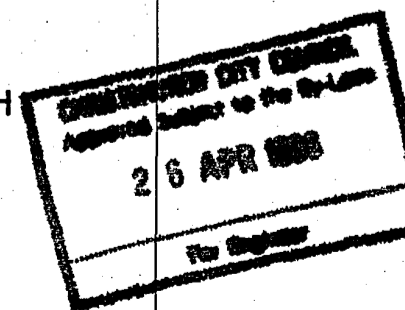
**PEDERSEN & PARTNERS LTD**  
CONSULTING ELECTRICAL ENGINEERS  
AUCKLAND CHRISTCHURCH DUNEDIN

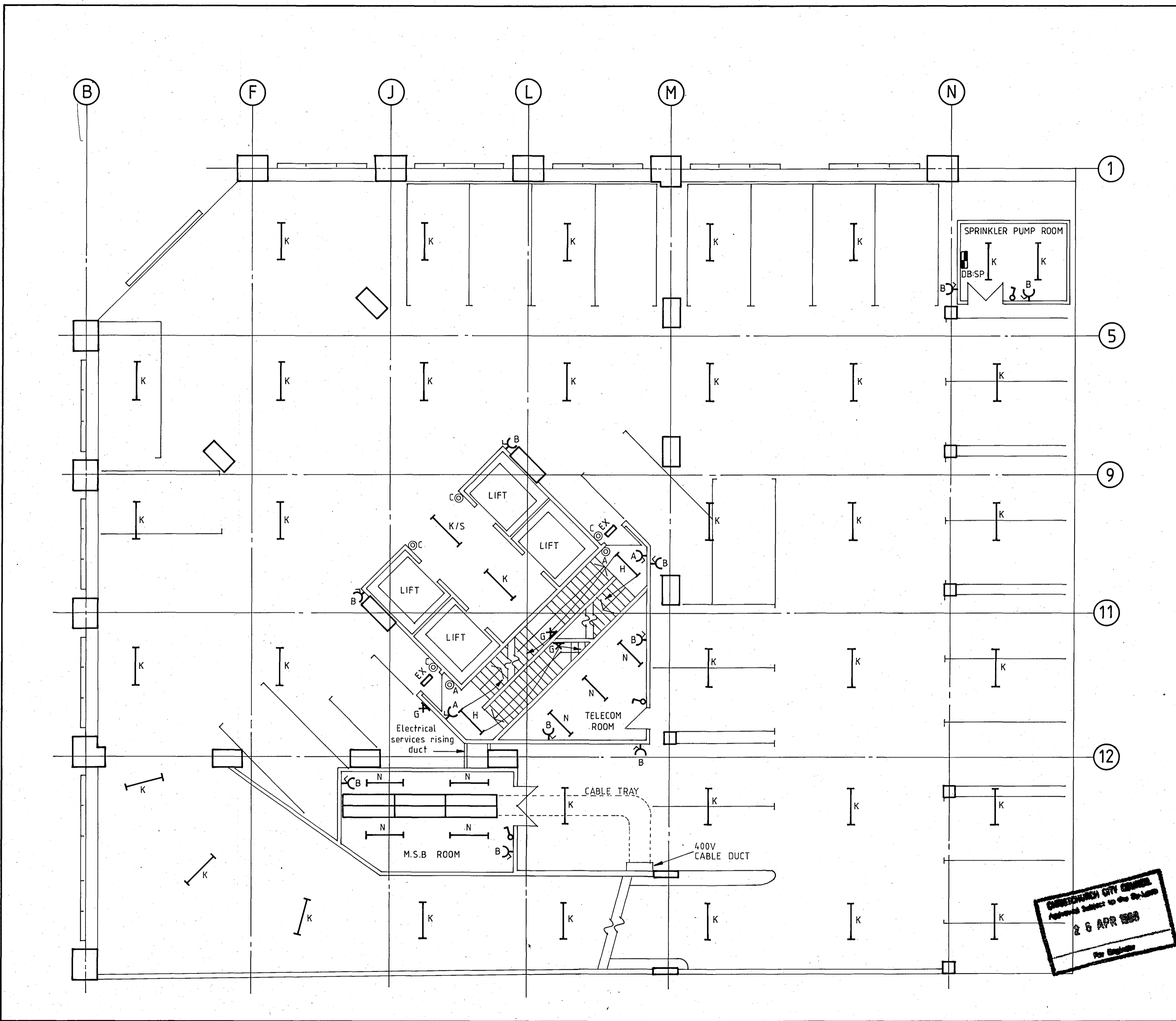
SCALES  
1:100

SHEET NO.  
E3.1


DRAWN  
DATE FEBRUARY 1988

JOB 2418  
SET - 3 MAR 1988



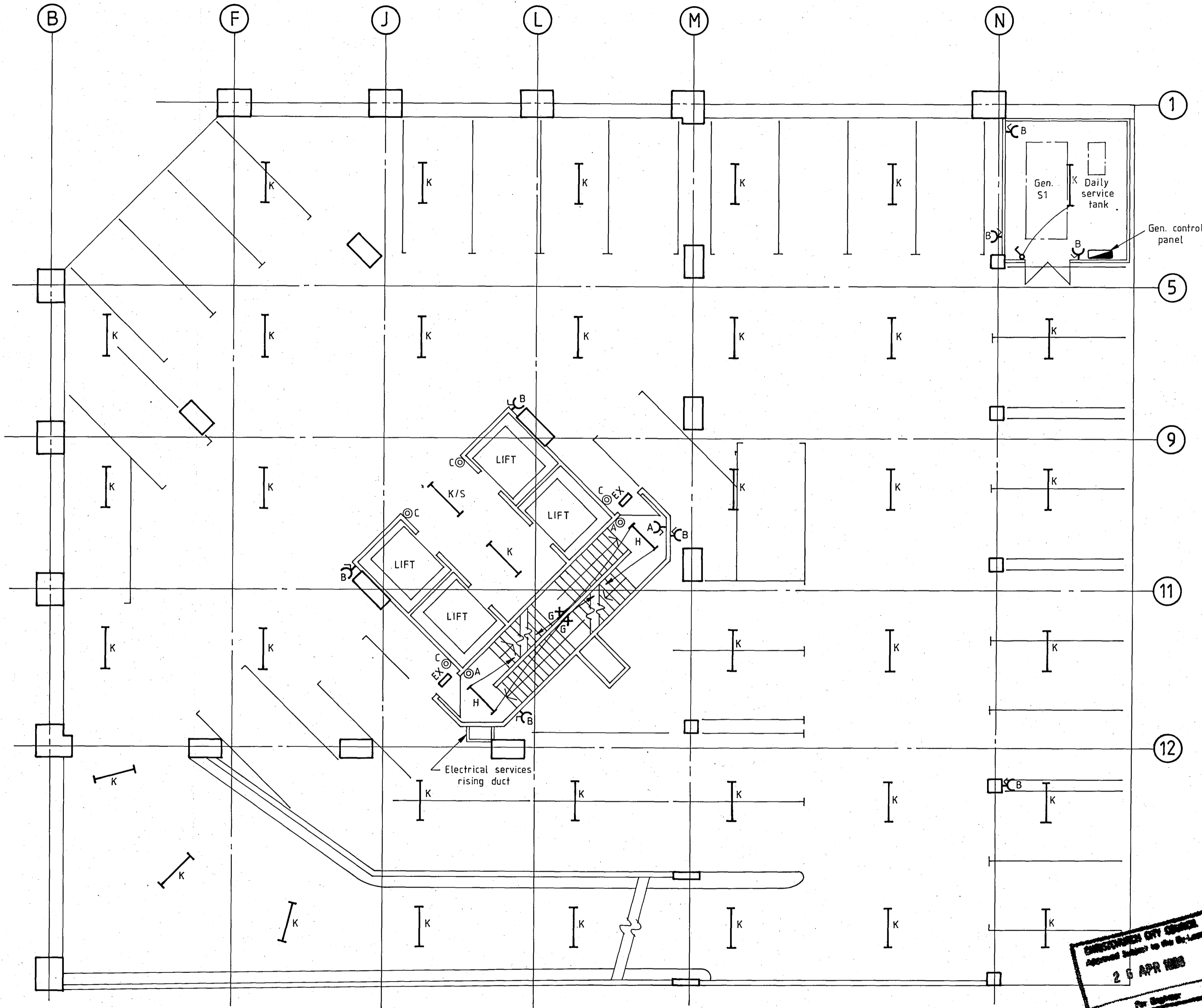


**CHRISTCHURCH CITY COUNCIL**  
 Approved under the Resource Management Act 1986  
 26 APR 1988  
 For Engineer

NOTES	
DATE	REVISION
 <b>Warren &amp; Mahoney</b> Architects Christchurch & Wellington	
<b>ROBERT JONES HOUSE</b>	
FOR: PAYNTER DEVELOPMENTS LTD	
<b>DESIGN PROPOSAL DRAWING</b>	
DRAWING ELECTRICAL SERVICES Level 1 layout	
<b>PEDERSEN &amp; PARTNERS LTD</b> CONSULTING ELECTRICAL ENGINEERS AUCKLAND CHRISTCHURCH DUNEDIN	
SCALES 1:100	SHEET NO E3.2
DRAWN	JOB 2418
DATE FEBRUARY 1988	SET - 3 MAR 1988



NOTES



DATE	REVISION

**Warren & Mahoney**  
Architects  
Christchurch & Wellington

# ROBERT JONES HOUSE

FOR PAYNTER DEVELOPMENTS LTD

## DESIGN PROPOSAL DRAWING

DRAWING  
ELECTRICAL SERVICES  
Level 2 layout

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AUCKLAND CHRISTCHURCH DUNEDIN

SCALES 1:100	SHEET NO. E3.3
DRAWN	JOB 2418
DATE FEBRUARY 1988	SET - 3 MAR 1988

**ENGINEER'S OFFICE**  
Approved under the Electrical Act 1982  
25 APR 1988  
Per Engineer

NOTES

- 2 No. type K lighting fittings to be mounted at level 3 floor beam level.

DATE	REVISION



**Warren & Mahoney**  
Architects  
Christchurch & Wellington

**ROBERT JONES HOUSE**

FOR PAYNTER DEVELOPMENTS LTD

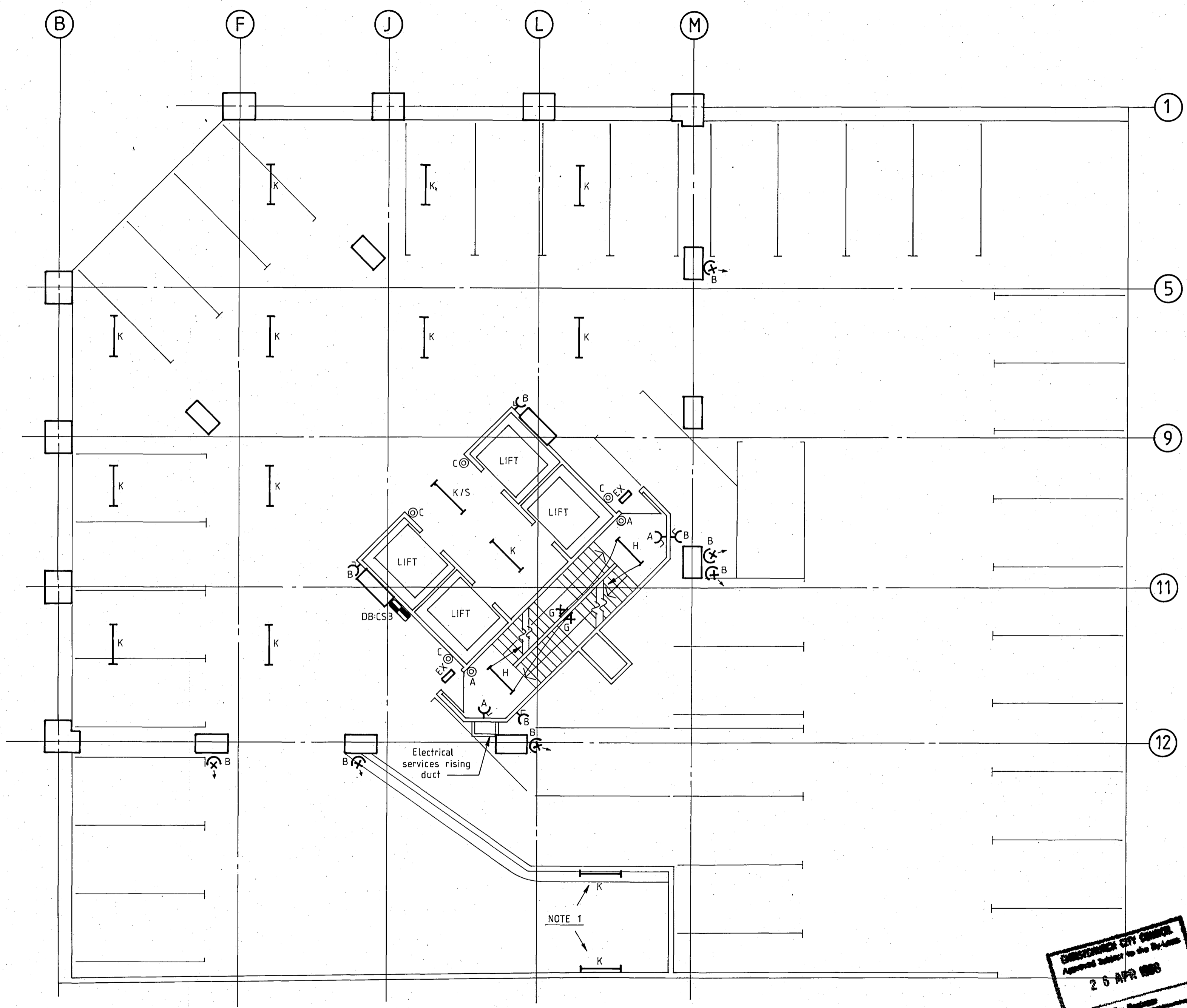
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DRAWING  
ELECTRICAL SERVICES  
Level 3 layout

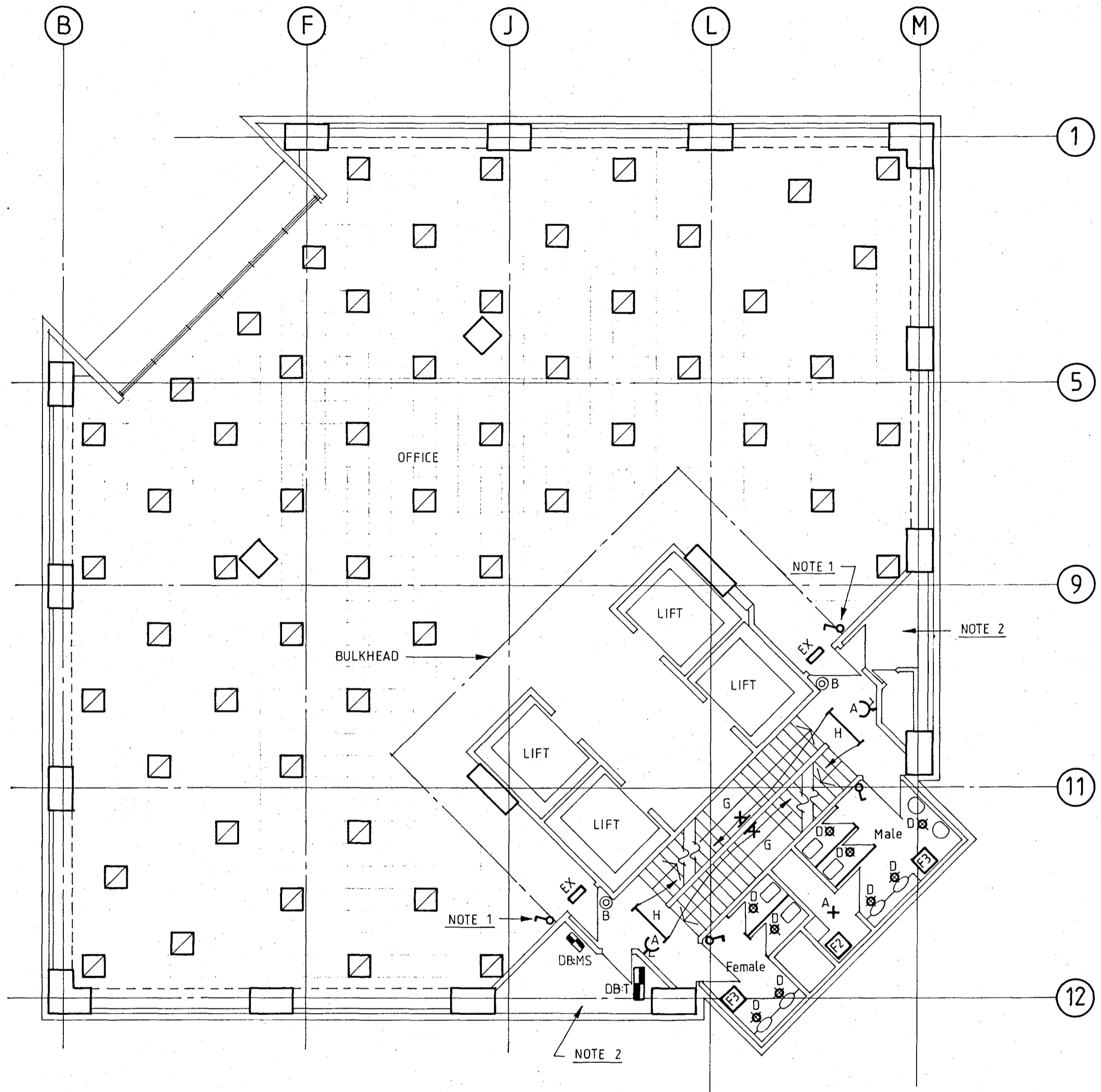
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AUCKLAND CHRISTCHURCH DUNEDIN

SCALES 1:100	SHEET NO. E3.4
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DRAWN	JOB 2418
DATE FEBRUARY 1988	SET 3 MAR 1988



**CANTONMENT CITY COUNCIL**  
Approved Subject to the By-Laws  
26 APR 1988  
For Signature



- NOTES
1. Light switch to control half of the type C lighting fittings via contactors located in DB:T
  2. Allow to install one type B plug socket outlet in each service duct wired on dedicated circuits
- This symbol denotes the location of a type C lighting fitting.

DATE	REVISION

**WM** Warren & Mahoney  
Architects  
Christchurch & Wellington

**ROBERT JONES HOUSE**

FOR PAYNTER DEVELOPMENTS LTD  
**DESIGN PROPOSAL DRAWING**

DRAWING  
ELECTRICAL SERVICES  
Levels 4, 9-12 layout.  
17

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CONSULTING ELECTRICAL ENGINEERS  
AUCKLAND CHRISTCHURCH DUNEDIN

SCALES 1:100	SHEET NO. E3.5
DRAWN	JOB 2418
DATE FEBRUARY 1988	SET - 3 MAR 1988

**CHRISTCHURCH CITY COUNCIL**  
Approved Submitter to the City Council  
**26 APR 1988**  
Per Engineer

- NOTES
1. Light switch to control half of the type C lighting fittings via contactors located in DB:T
  2. Allow to install one type B plug socket outlet in each service duct wired on dedicated circuits.
- ☐ This symbol denotes the location of a type C lighting fitting.

DATE	REVISION



**Warren & Mahoney**  
Architects  
Christchurch & Wellington

# ROBERT JONES HOUSE

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## DESIGN PROPOSAL DRAWING

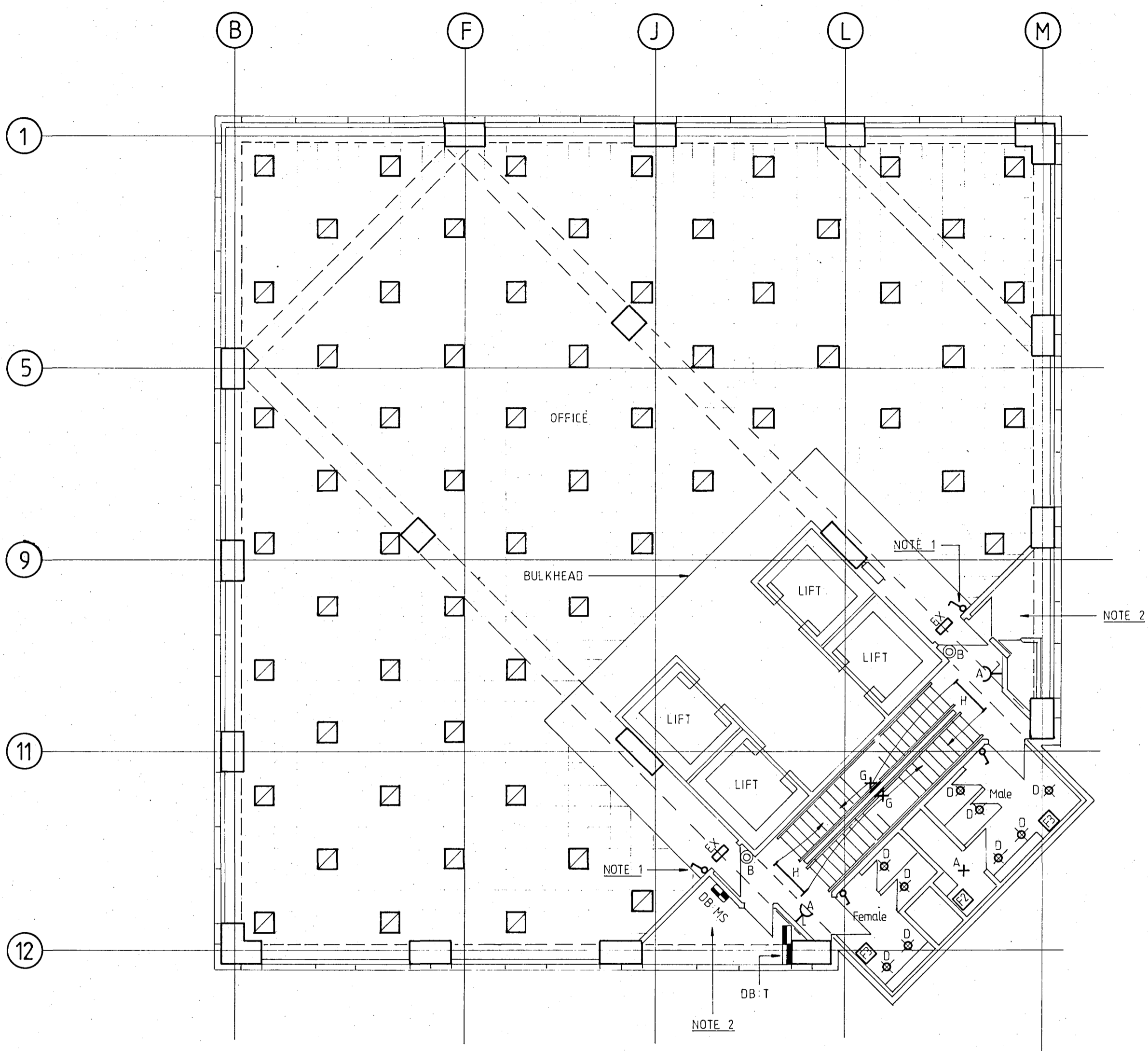
DRAWING  
ELECTRICAL SERVICES  
Levels 5-8 layout.

**PEDERSEN & PARTNERS LTD**  
CONSULTING ELECTRICAL ENGINEERS  
AUCKLAND CHRISTCHURCH DUNEDIN

SCALES 1:100	SHEET NO. E3.6
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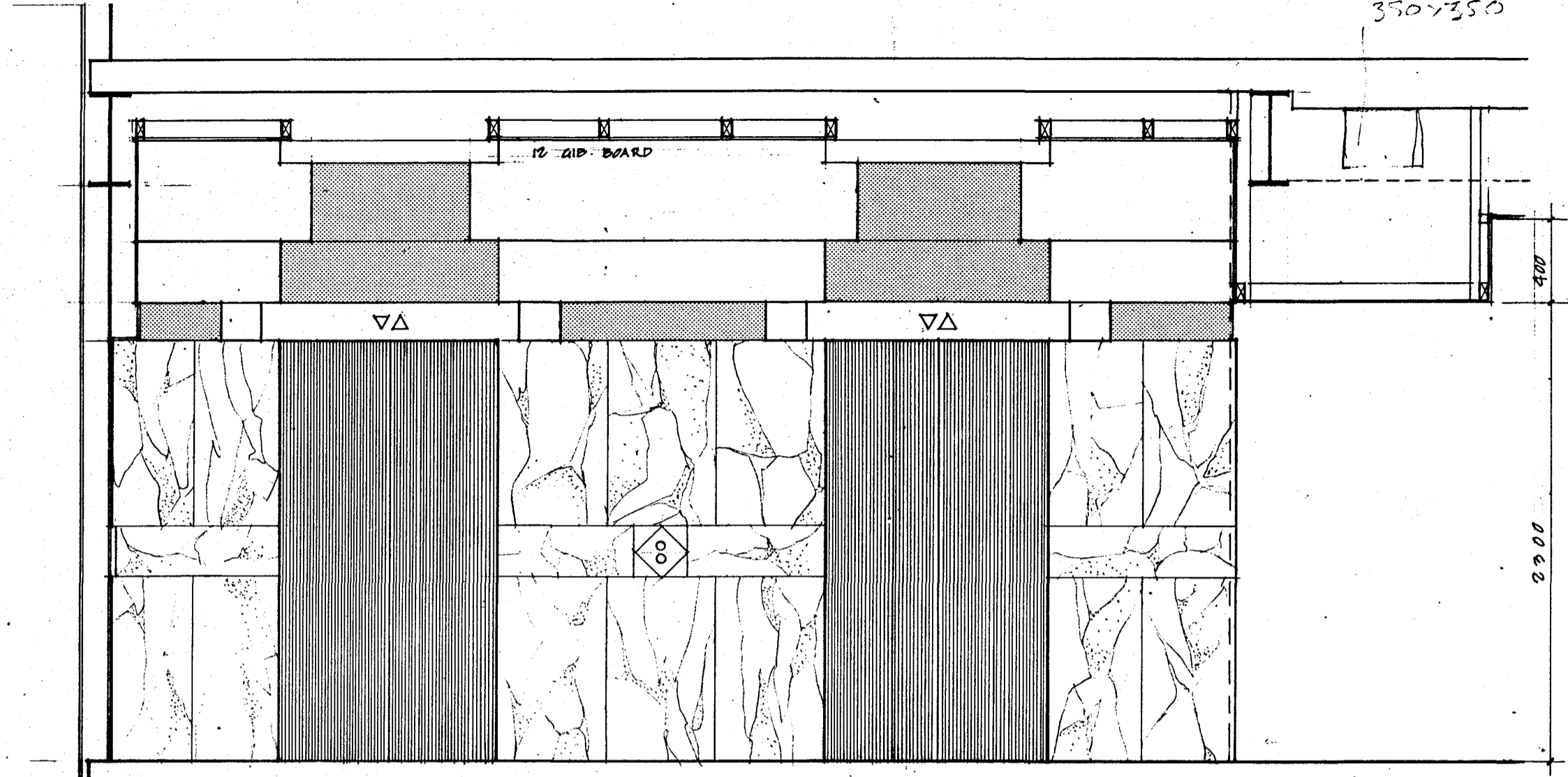
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DATE FEBRUARY 1988	SET - 3 MAR 1988
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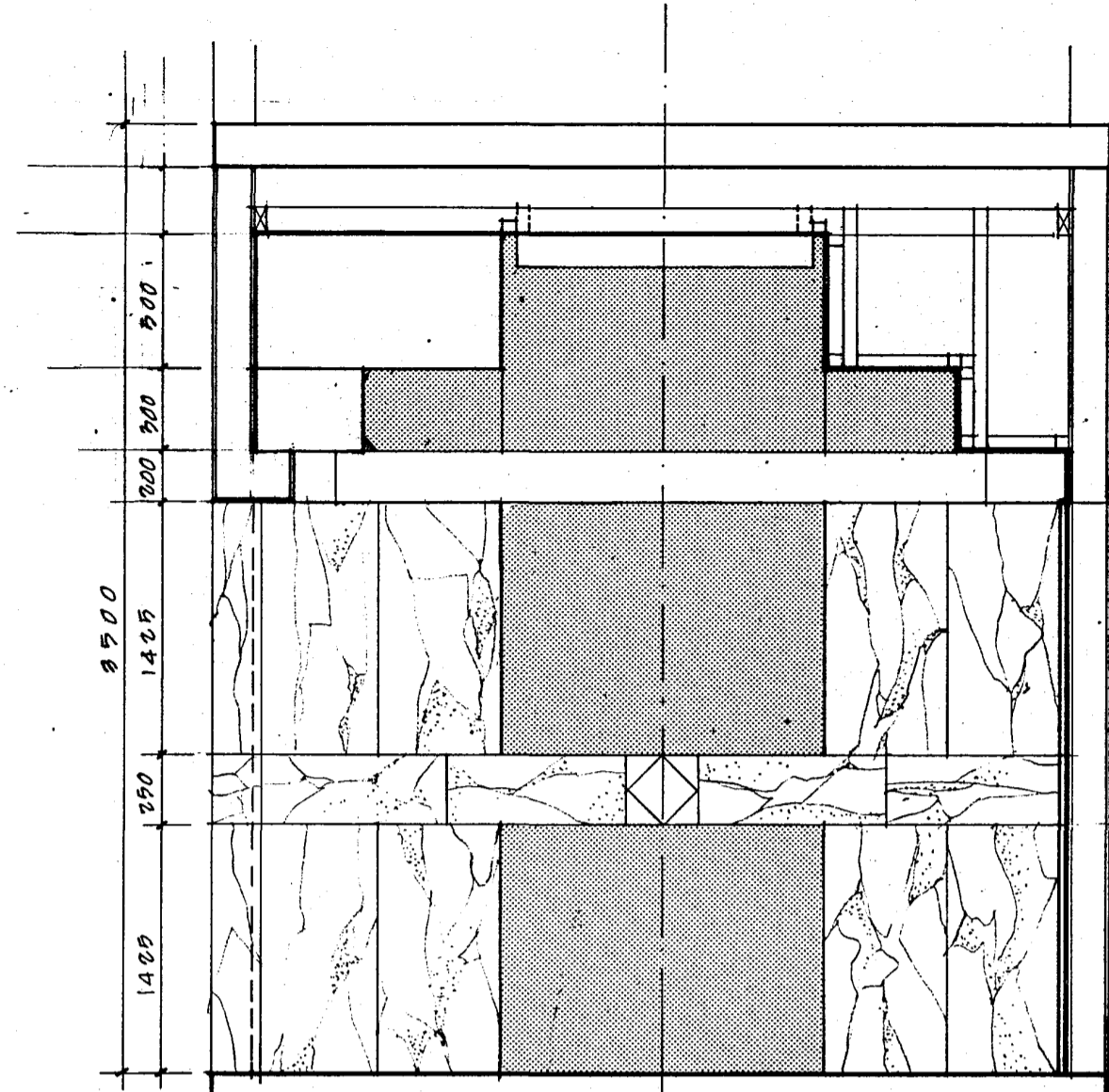


**CANTONMENT CITY COUNCIL**  
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**26 APR 1988**  
Per Engineer

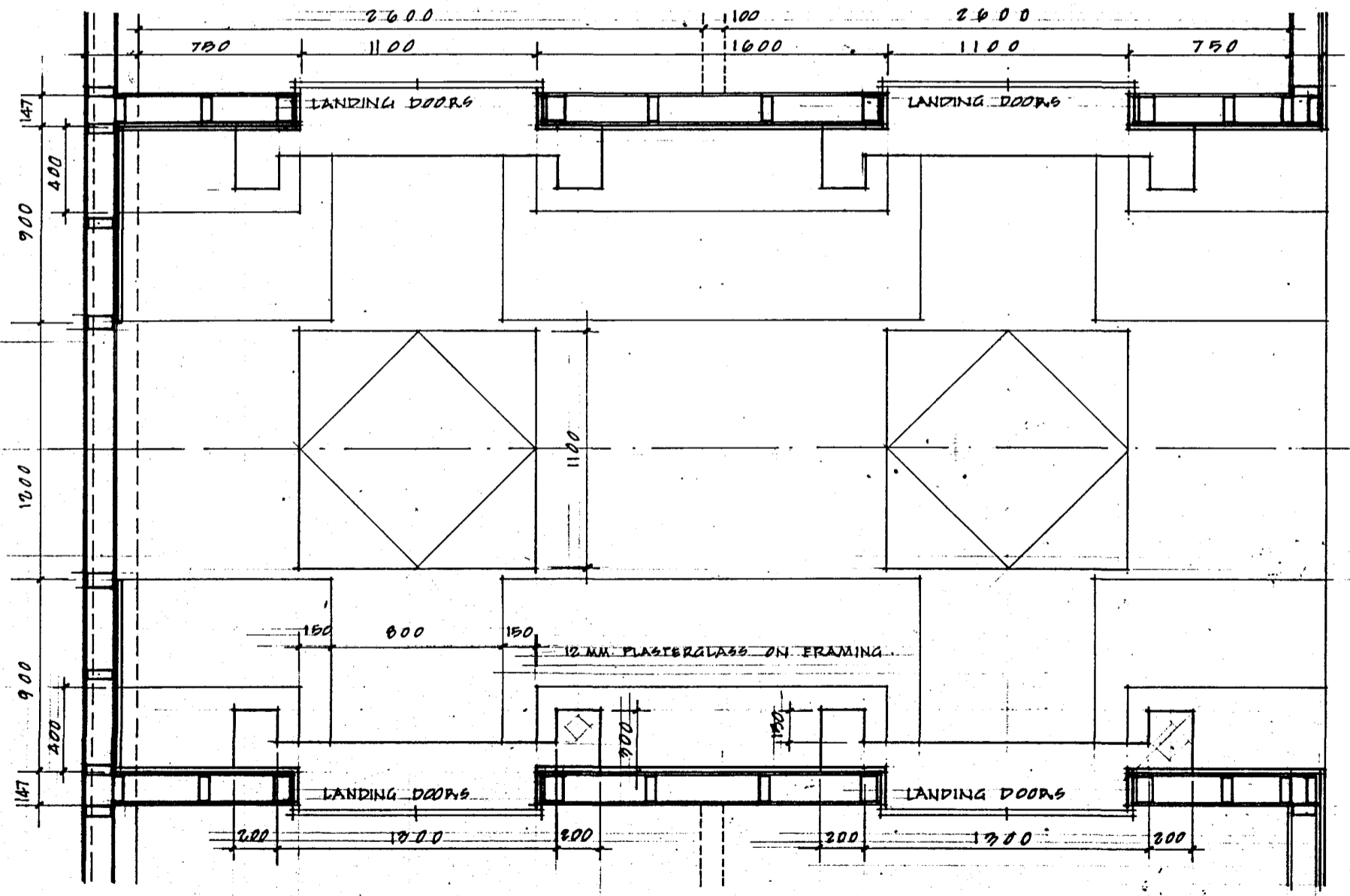
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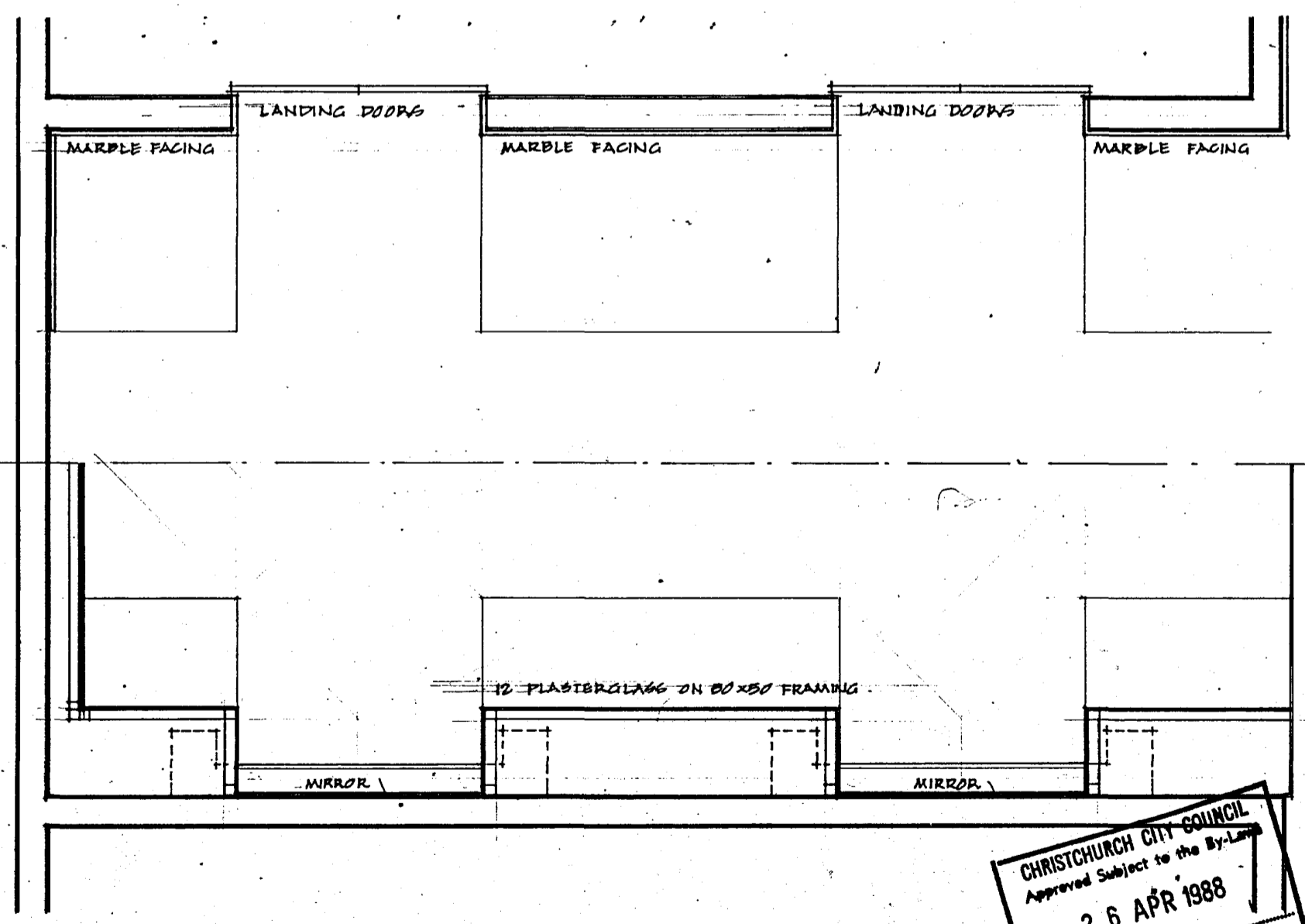
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C R O S S S E C T I O N



R E F L E C T E D C E I L I N G P L A N



F L O O R P L A N S F R O M A B O V E & B E L O W

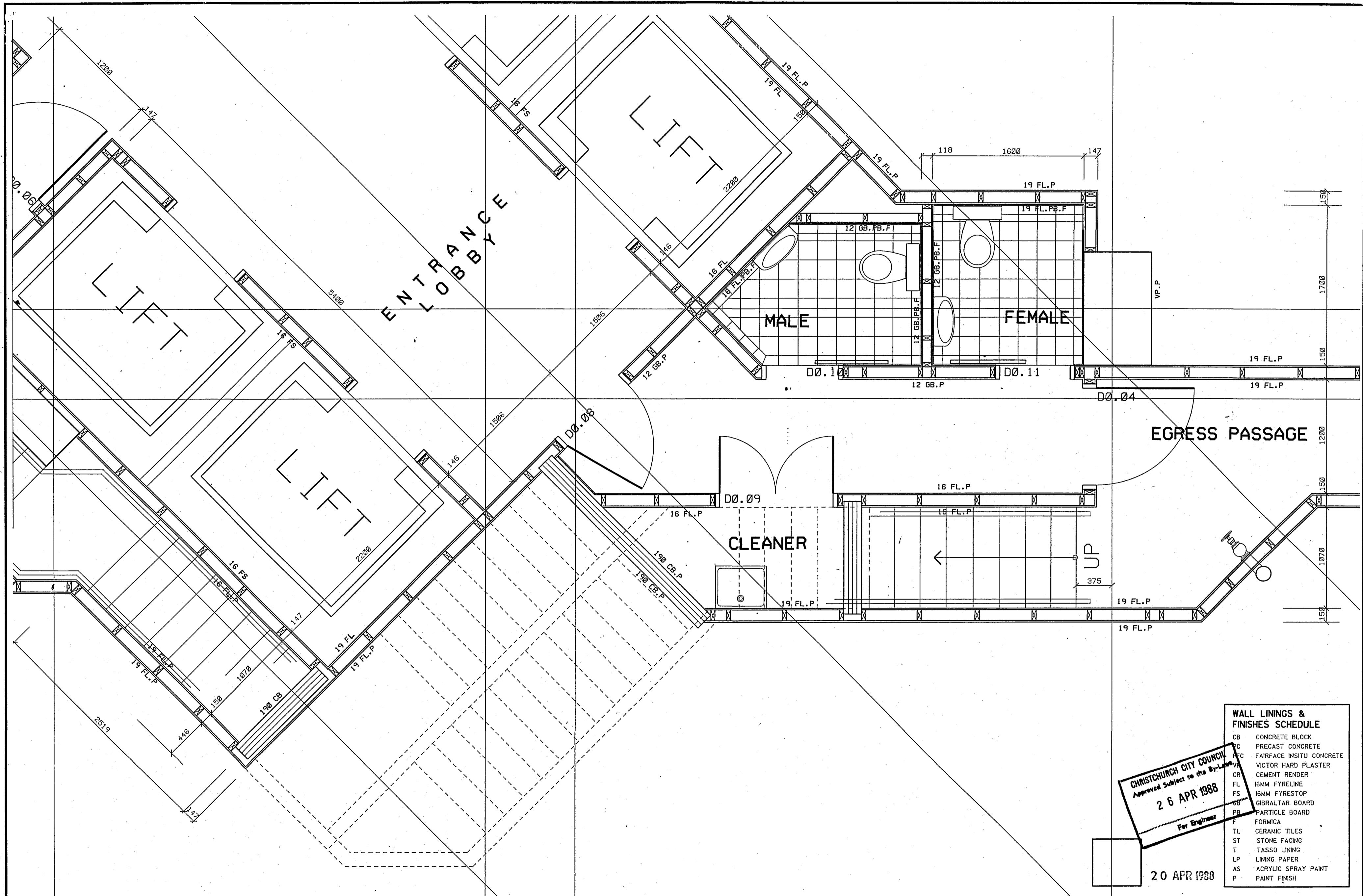
CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Law  
 26 APR 1988  
 For Engineer  
 H. E. MAR 1988

DOOR  
 H. E. MAR 1988

Revisions	Issued to:	Client	Struct	Mech	O.S.	Builder

Scale	1:25
0	1
2	3
4	5
6	7
8	9
10	11
12	13
14	15
16	17
18	19
20	21

TYPICAL LIFT LOBBY  
 The Contractor shall verify all dimensions before starting work.



**WALL LININGS & FINISHES SCHEDULE**

CB	CONCRETE BLOCK
PC	PRECAST CONCRETE
FC	FAIRFACE INSITU CONCRETE
VP	VICTOR HARD PLASTER
CR	CEMENT RENDER
FL	16MM FYRELIN
FS	16MM FYRESTOP
GB	GIBALTAR BOARD
PB	PARTICLE BOARD
F	FORMICA
TL	CERAMIC TILES
ST	STONE FACING
T	TASSO LINING
LP	LINING PAPER
AS	ACRYLIC SPRAY PAINT
P	PAINT FINISH

**CHRISTCHURCH CITY COUNCIL**  
 Approved Subject to the By-Laws  
**26 APR 1988**  
 For Engineer

20 APR 1988

**Warren & Mahoney Architects Ltd**  
 Christchurch, Wellington & Auckland

**LANDMARK TOWER - CHRISTCHURCH**

Revisions	A	19/04/88	CORE F.R.R. CHANGED TO 2HR F.R.R.
Issued To:	Client		
	Struct		
	Mech		
	O.S.		
	Builder		

Client	
Struct	
Mech	
O.S.	
Builder	

**LEVEL 0 CORE PLAN**

Scale: 1:25

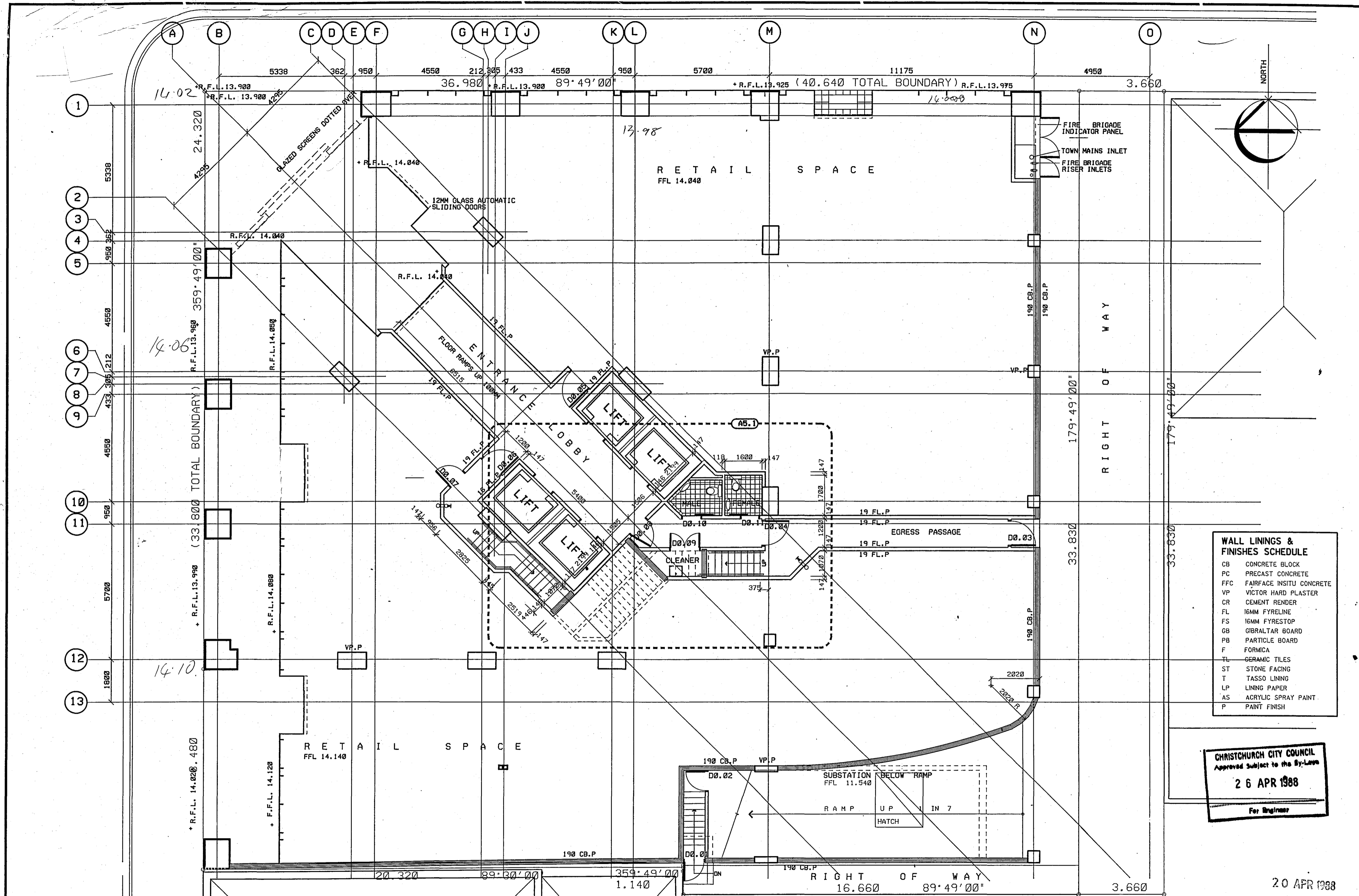
File No: 18 16

Drawn: C.A.U.

App: [Signature]

Date: 19/04/88

The Contractor shall verify all dimensions before starting work.



**WALL LININGS & FINISHES SCHEDULE**

CB	CONCRETE BLOCK
PC	PRECAST CONCRETE
FFC	FAIRFACE INSITU CONCRETE
VP	VICTOR HARD PLASTER
CR	CEMENT RENDER
FL	16MM FYRELINE
FS	16MM FYRESTOP
GB	GIBRALTAR BOARD
PB	PARTICLE BOARD
F	FORMICA
TL	CERAMIC TILES
ST	STONE FACING
T	TASSO LINING
LP	LINING PAPER
AS	ACRYLIC SPRAY PAINT
P	PAINT FINISH

**CHRISTCHURCH CITY COUNCIL**  
 Approved Subject to the By-Laws  
**26 APR 1988**  
 For Engineer

20 APR 1988

**Warren & Mahoney**  
 Architects Ltd  
 Christchurch, Wellington & Auckland

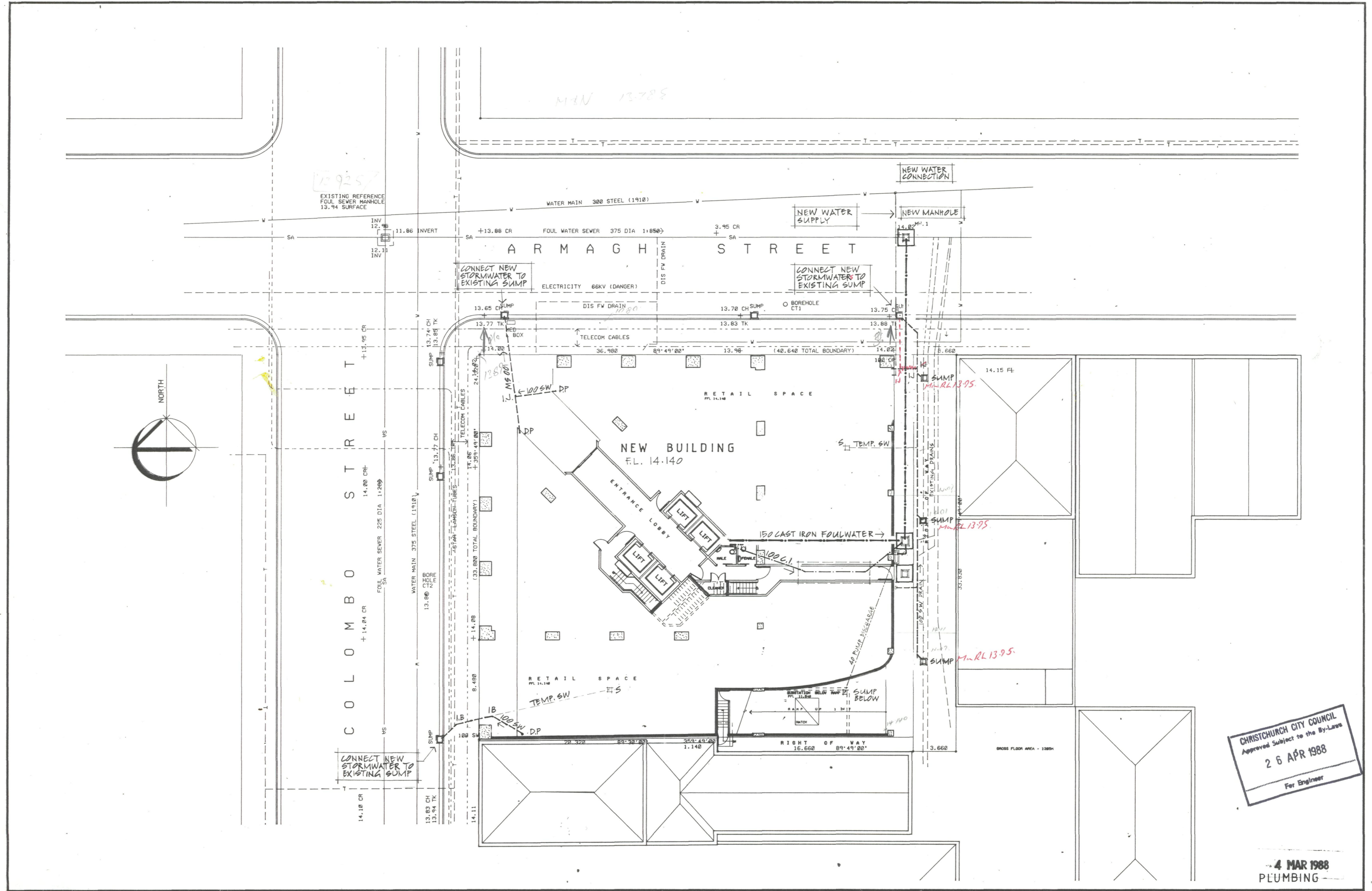
**LANDMARK TOWER - CHRISTCHURCH**

Revisions	A	19/04/88	CORE F.R.R CHANGED TO 2HR F.R.R
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Issued for:	Client	
	Struct	
	Mech	
	O.S.	
	Builder	

**LEVEL 0 PLAN**  
 Scale: 1:100  
 The Contractor shall verify all dimensions before starting work.

File 18 16  
 Date 19/04/88  
**Al.2**



CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

4 MAR 1988  
 PLUMBING

**Warren & Mahoney**  
 Architects Ltd  
 Christchurch, Wellington & Auckland

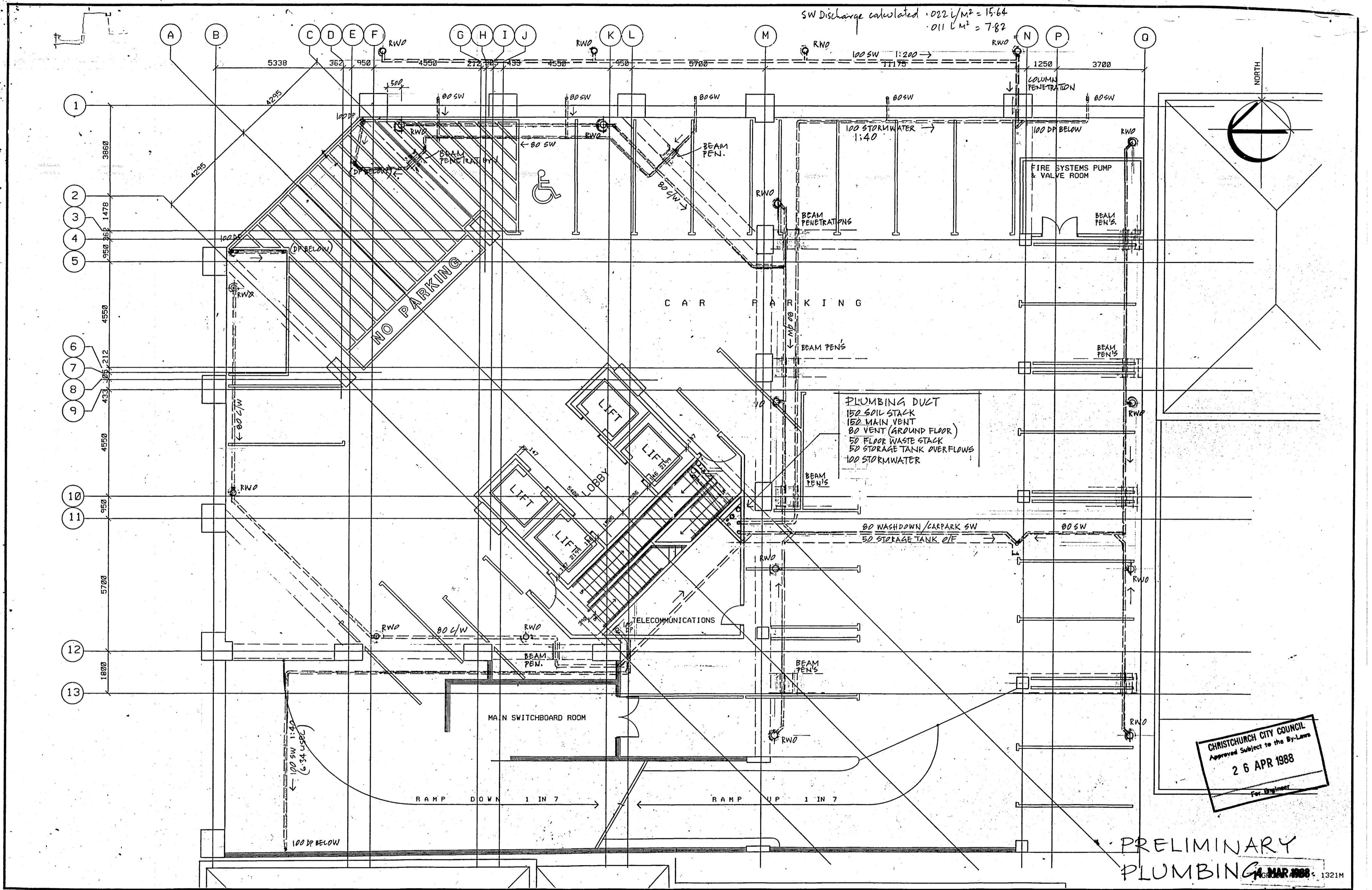
LANDMARK TOWER - CHRISTCHURCH

Revisions	Required For	Client	Struct	Mech	O.S.	Builder

Scale	File No.	Dwg No.
1:200	1816	A7:1

**SITE SERVICES PLAN**  
 The Contractor shall verify all dimensions before starting work.  
 Date 5-2-88





CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

PRELIMINARY PLUMBING  
 1321M

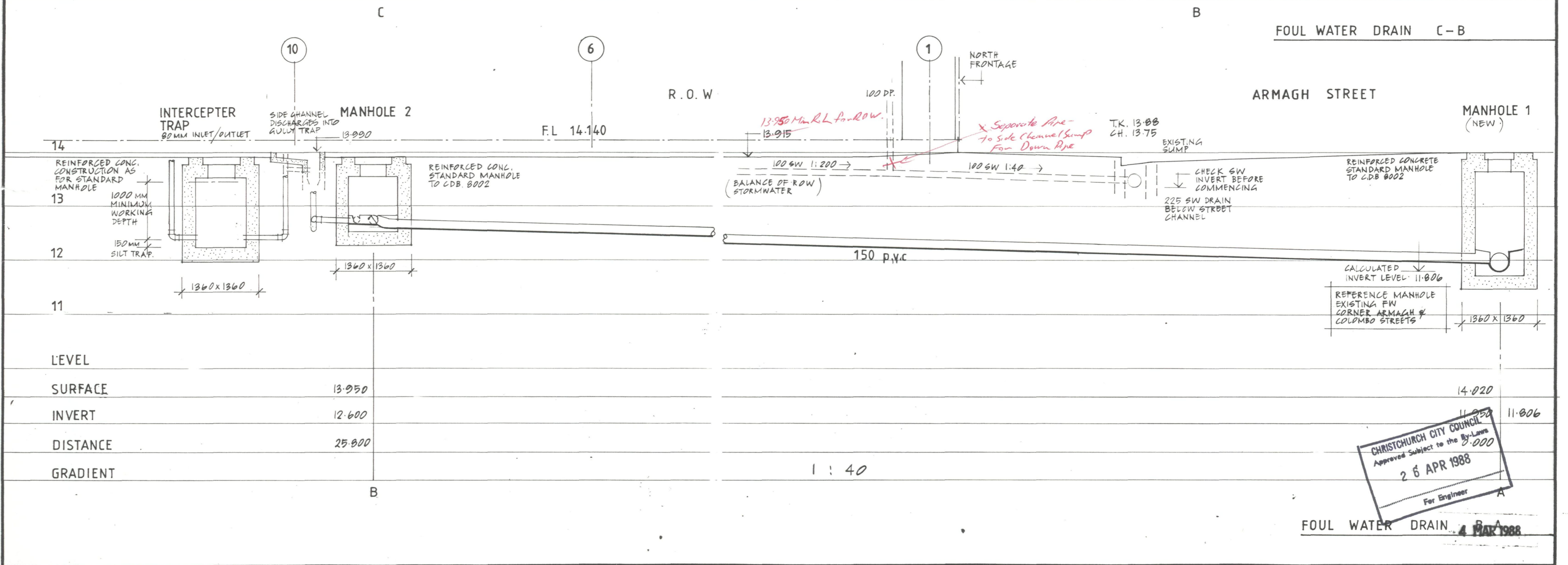
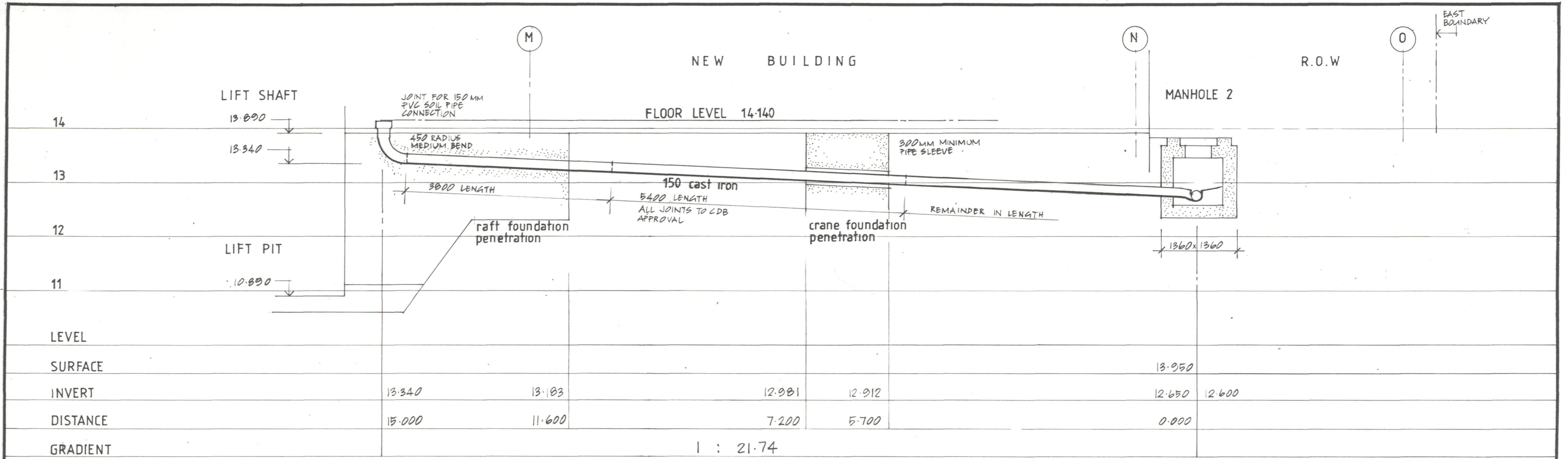
**Warren & Mahoney Architects Ltd**  
 Christchurch, Wellington & Auckland

LANDMARK TOWER - CHRISTCHURCH

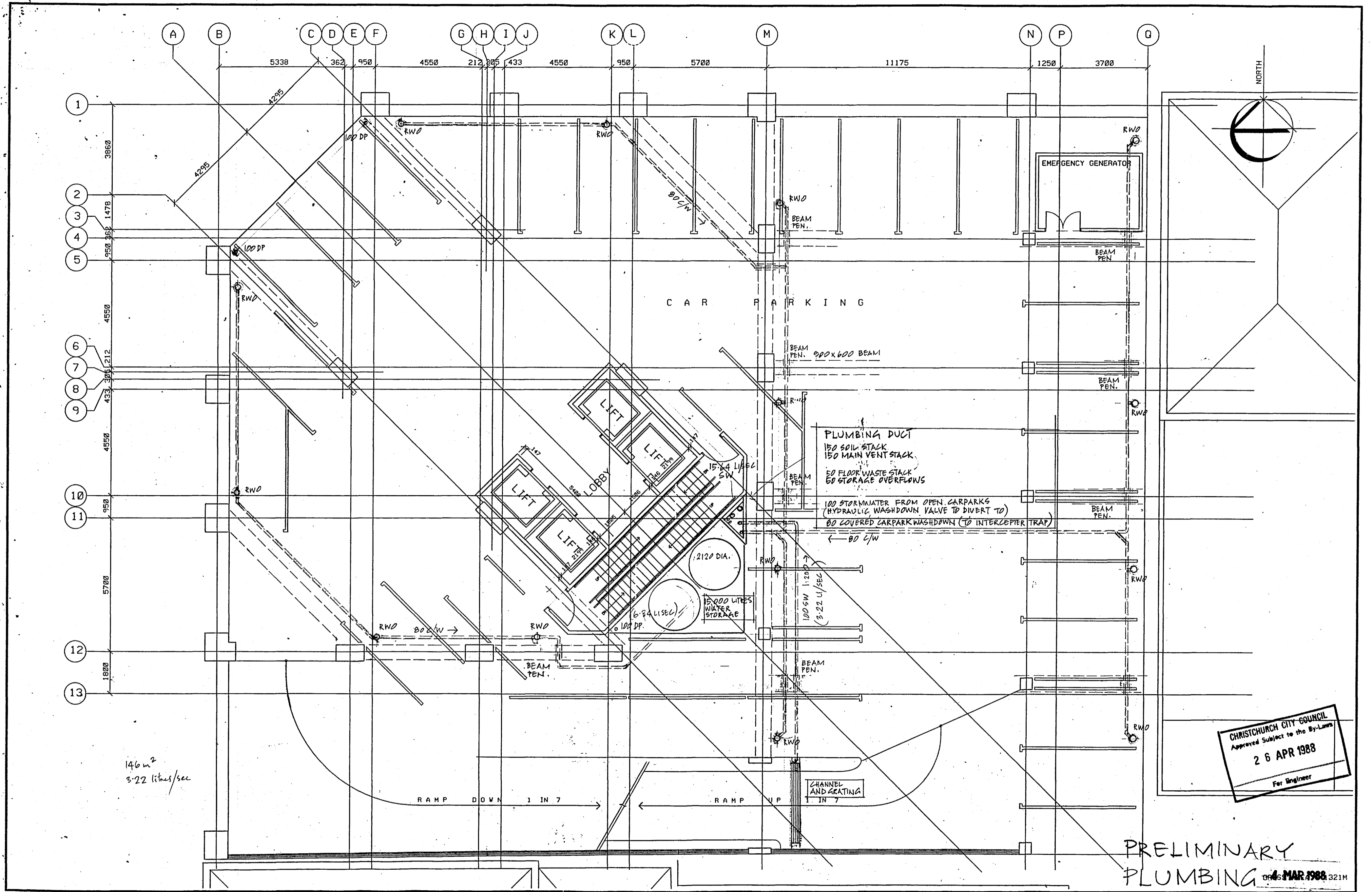
Client	
Struct	
Mech	
O.S.	
Builder	

LEVEL I PLAN  
 Scale: 1:100  
 The Contractor shall verify all dimensions before starting work

Site 18 16  
 No. A7-6  
 Date



CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer



CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

PRELIMINARY PLUMBING  
 4 MAR 1988 321M

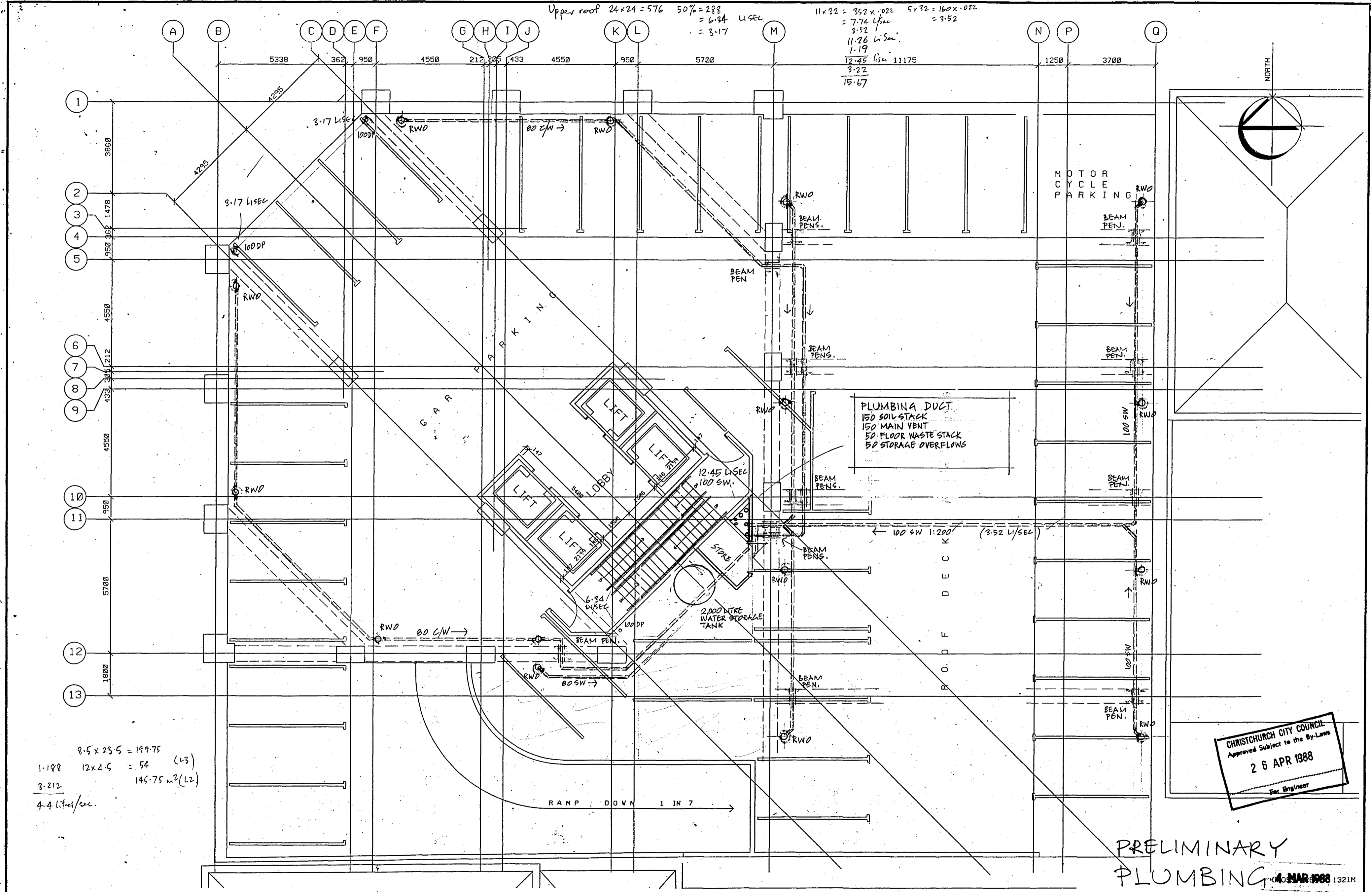
**Warren & Mahoney**  
 Architects Ltd  
 Christchurch, Wellington & Auckland

LANDMARK TOWER - CHRISTCHURCH

Revisions	Client	Struct	Mech	Q.S.	Builder

Scale	File No
1:100	1816
	A7.7

LEVEL 2 PLAN  
 The contractor shall verify all dimensions before starting work



$8.5 \times 23.5 = 199.75$   
 $1.188 \quad 12 \times 4.5 = 54 \quad (L3)$   
 $3.212 \quad 145.75 \text{ m}^2 (L2)$   
 4.4 litres/sec.

CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

PRELIMINARY  
 PLUMBING 1 MAR 1988 1321M

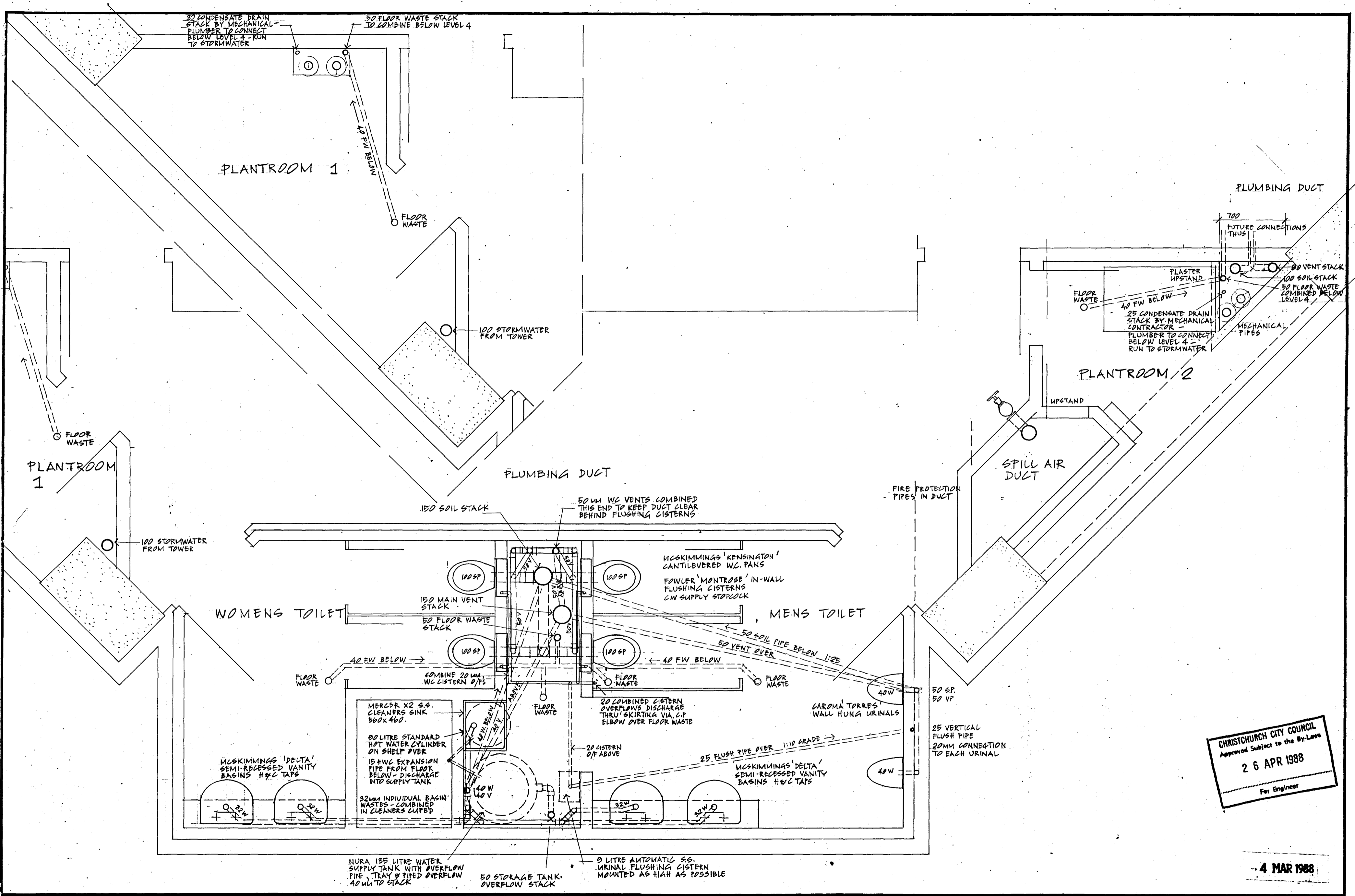
**Warren & Mahoney**  
 Architects Ltd  
 Christchurch, Wellington & Auckland

LANDMARK TOWER - CHRISTCHURCH

Revisions	Issued to:	Client	Struct	Mech	O.S.	Builder

Issued to:	Client	Struct	Mech	O.S.	Builder

LEVEL 3 PLAN						Scale:	File - 18 16
0	1	2	3	4	5	1:100	18-16
The Contractor shall verify all dimensions before starting work.						Drn: C.A.D.	A7-8
						App:	Date 01/02/88



CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

4 MAR 1988

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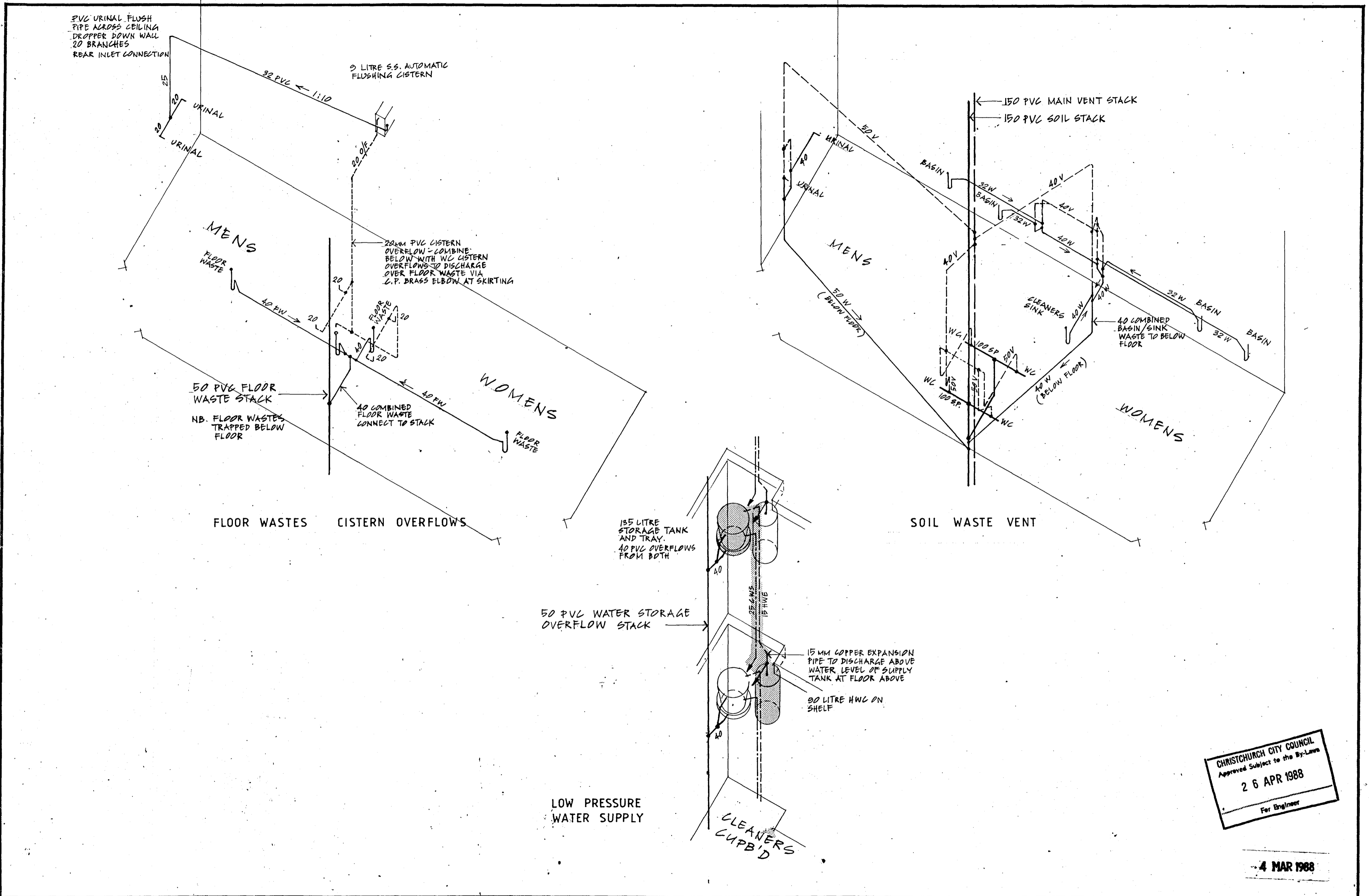
LANDMARK TOWER - CHRISTCHURCH

Revisions	Client	Struct	Mech	O.S.	Builder

Issued to:	Client	Struct	Mech	O.S.	Builder

**PLUMBING AT CORE**  
 TYPICAL TOILETS

Scales  
 1:25  
 Dwg No  
 A7-9  
 Dwn. St.  
 App.  
 Date 17-3-88



4 MAR 1988

Warren & Mahoney  
 Architects Ltd  
 Christchurch, Wellington & Auckland

LANDMARK TOWER - CHRISTCHURCH

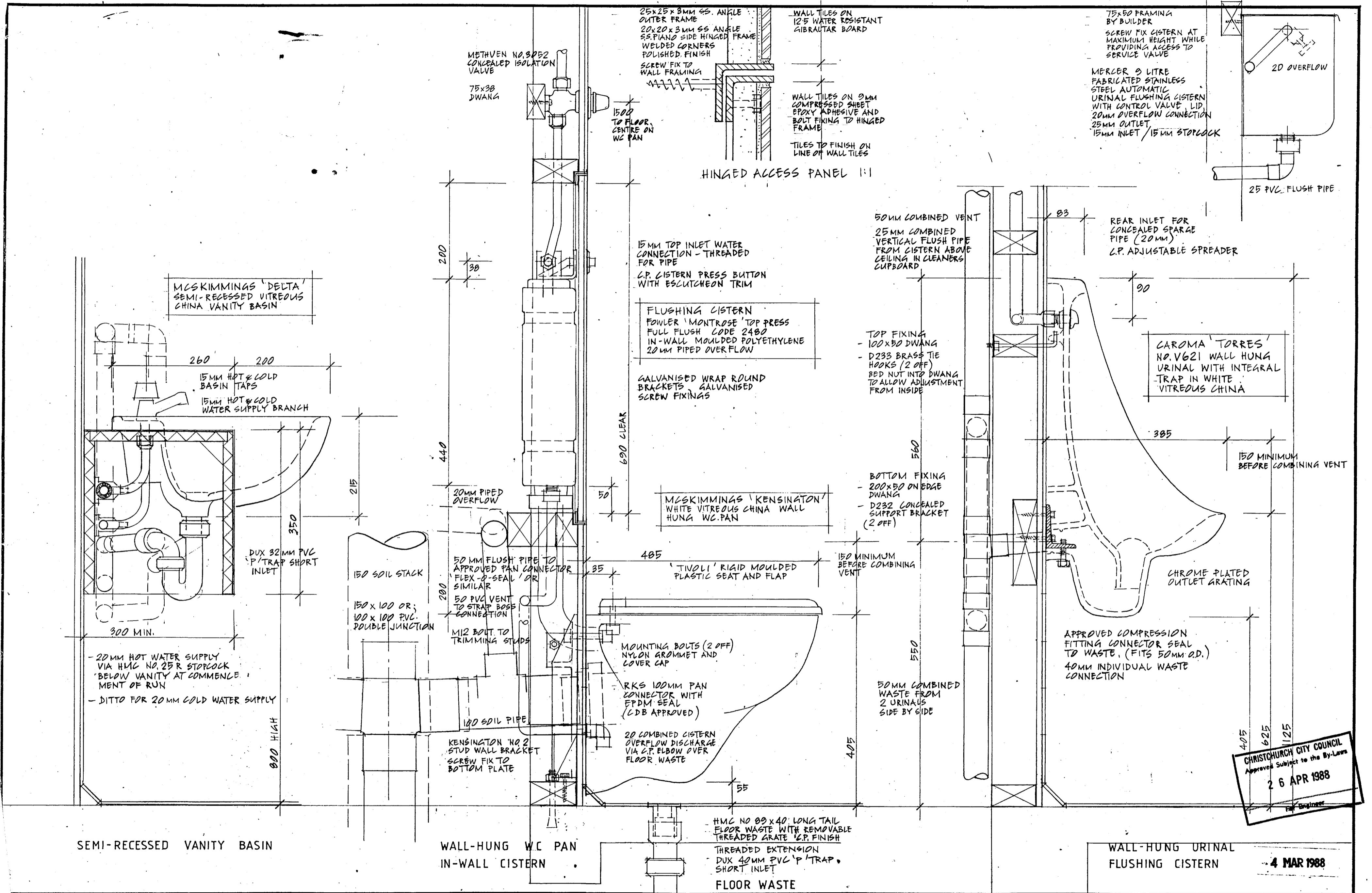
REVISIONS	DATE	BY	DESCRIPTION

ISSUED TO	DATE	BY	DESCRIPTION
Client			
Struct			
Mech			
O.S.			
Builder			

PLUMBING SCHEMATIC  
 TYPICAL TOILETS AT CORE

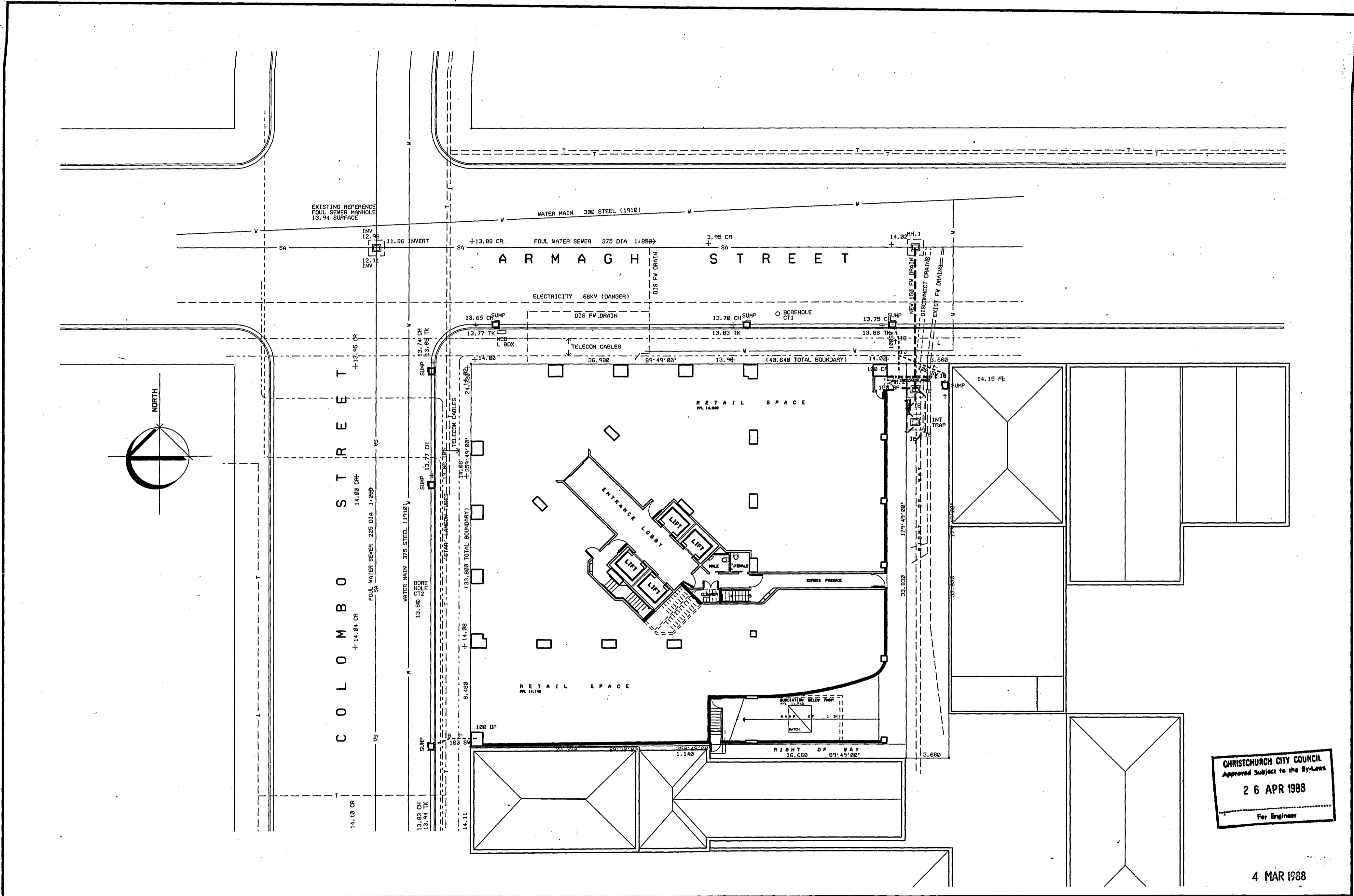
Scale	File No.	Dwg No.	Date
N.A.		A7-10	

The Contractor shall verify all dimensions before starting work.



CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 P.M. Engineer

4 MAR 1988



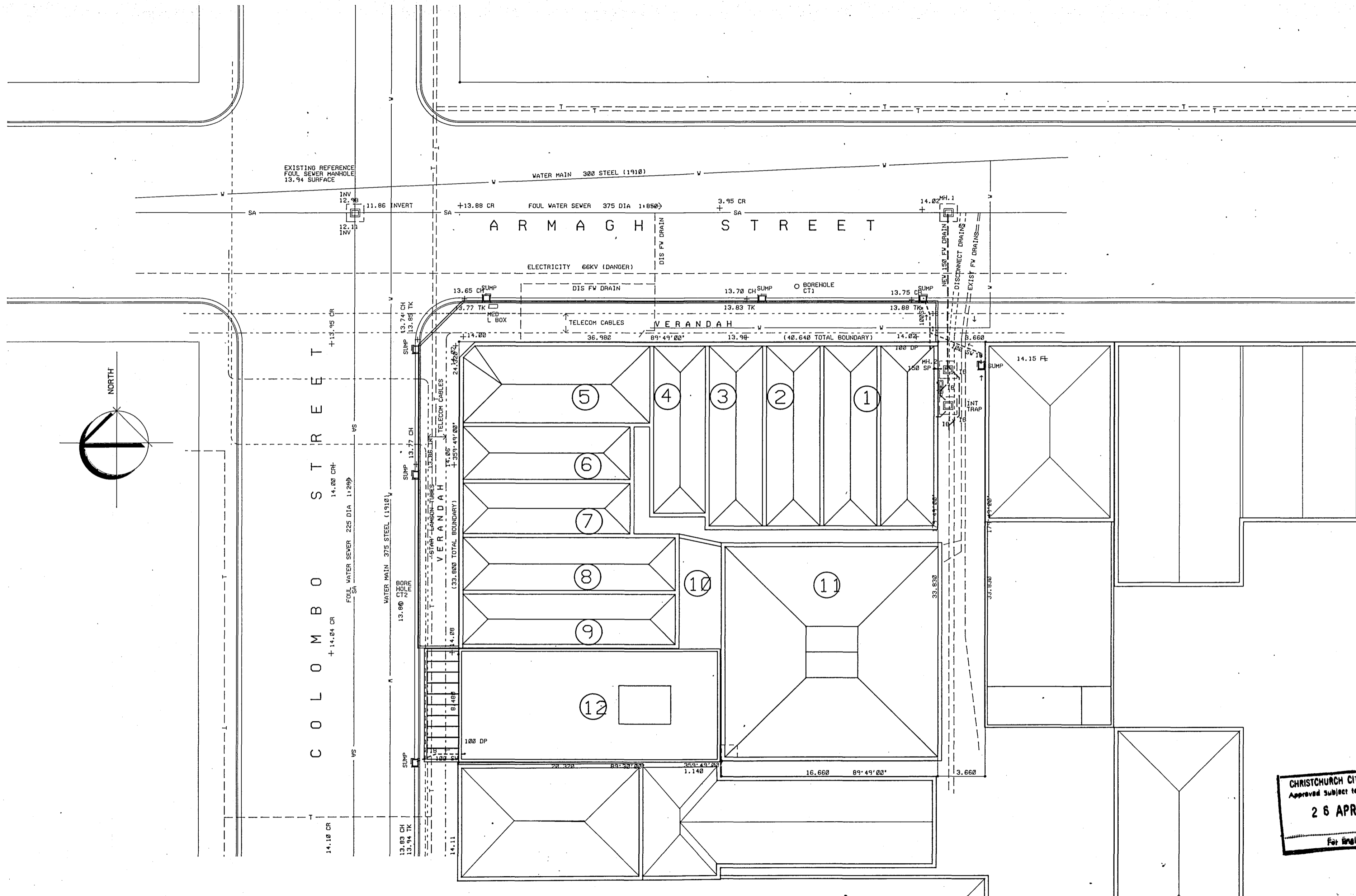
4 MAR 1988

Revisions	Issued to:	Client	Struc	Mech	O.S.	Builder

SITE BASEMENT SERVICES PLAN					
0	1	2	3	4	5
The Contractor shall verify all dimensions before starting work.					

Scale	1:200	File No.	18 16
App	C.A.D.	Date	24/02/88
A.I.I.			





CHRISTCHURCH CITY COUNCIL  
 Approved subject to the By-Laws  
**26 APR 1988**  
 For Engineer

4 MAR 1988

**Warren & Mahoney**  
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 Christchurch, Wellington & Auckland

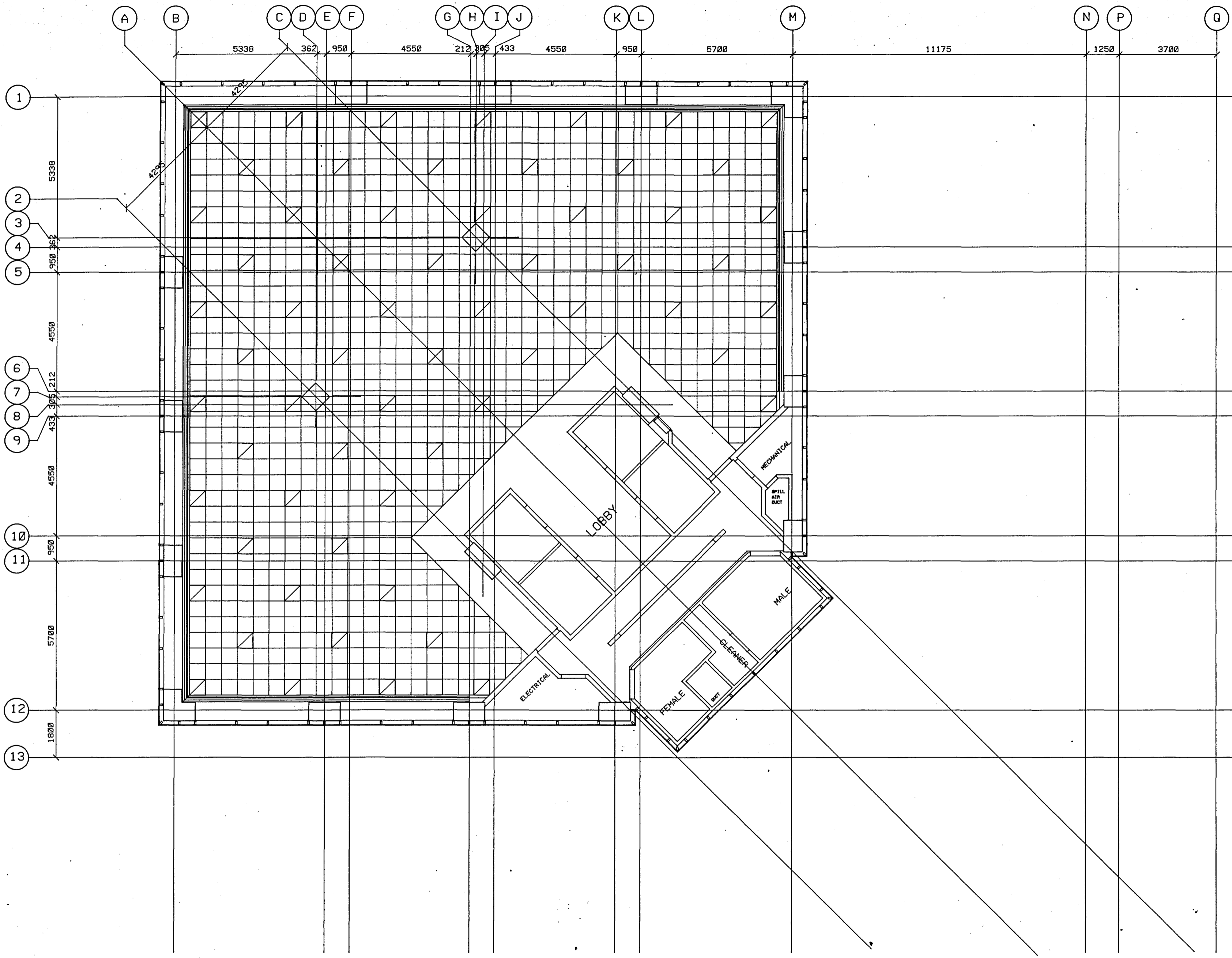
LANDMARK TOWER - CHRISTCHURCH

Revisions	Issued To	Client	Struct	Mech	D.S.	Builder

Scale	1:200
0	1 2 3 4 5 6

DEMOLITION PLAN  
 The Contractor shall verify all dimensions before starting work.

Scale  
 1:200  
 Date 28/03/87  
**AO.I**



CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

4 MAR 1988  
 GROSS AREA - 591M  
 NETT AREA - 489.5M  
 LETTABLE AREA - 445M

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 Christchurch, Wellington & Auckland

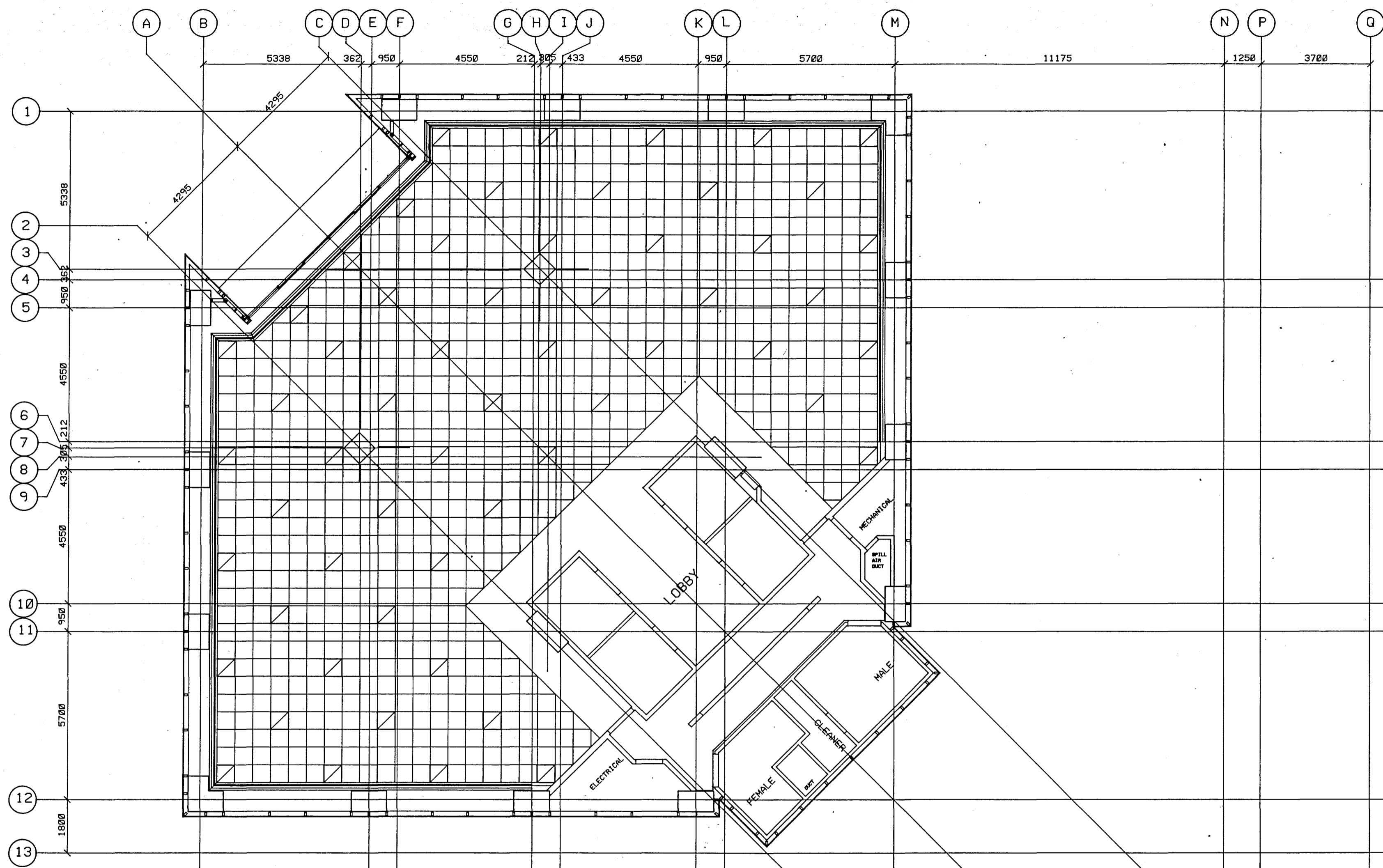
LANDMARK TOWER - CHRISTCHURCH

Revisions	Client	Struct	Mech	O.S.	Builder

Issued To:	Client	Struct	Mech	O.S.	Builder

LEVEL 5-8 REFLECTED  
 CEILING PLANS  
 The Contractor shall verify all dimensions before starting work

Scale: 1:100  
 Dwn: C.A.D.  
 App:   
 Date: 10/02/88  
 File: 18 16  
 Dep: No.  
 A2.5



CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

4 MAR 1988  
 GROSS AREA = 591M  
 NETT AREA = 489.5M  
 LETTABLE AREA = 445M

**Warren & Mahoney**  
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 Christchurch, Wellington & Auckland

LANDMARK TOWER - CHRISTCHURCH

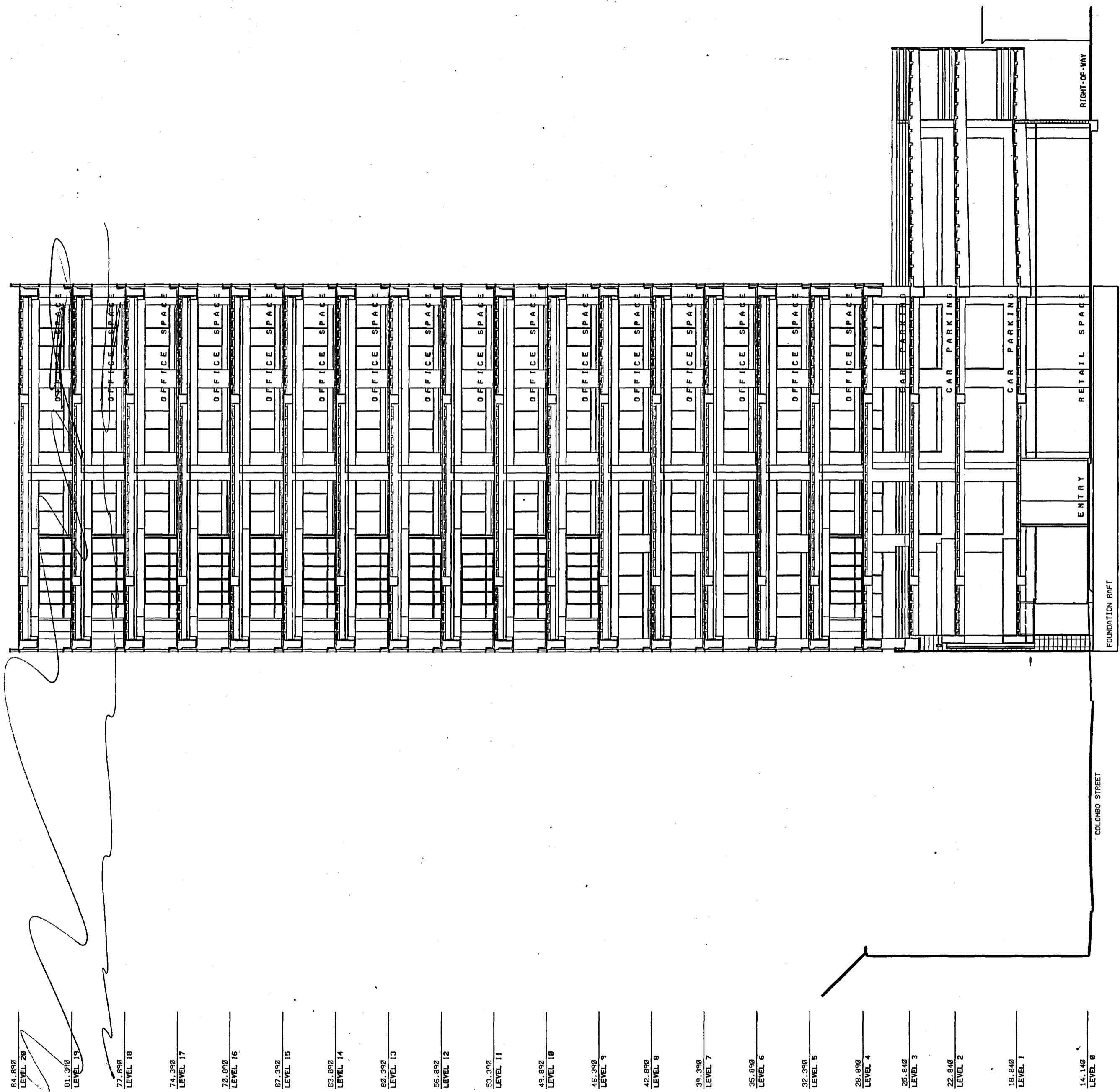
Revisions	Client	Struct	Mech	O.S.	Builder

Issued To	Client	Struct	Mech	O.S.	Builder

LEVEL 9 - REFLECTED  
 CEILING PLANS  
 The Contractor shall verify all dimensions before starting work.

Scale: 1:100  
 Date: 10/02/88  
 File No: A2.6

G  
H  
I  
J  
K  
L  
M  
N



SECTION 1

- 84.000 LEVEL 28
- 81.300 LEVEL 19
- 77.600 LEVEL 18
- 74.300 LEVEL 17
- 70.800 LEVEL 16
- 67.300 LEVEL 15
- 63.800 LEVEL 14
- 60.300 LEVEL 13
- 56.800 LEVEL 12
- 53.300 LEVEL 11
- 49.800 LEVEL 10
- 46.300 LEVEL 9
- 42.800 LEVEL 8
- 39.300 LEVEL 7
- 35.800 LEVEL 6
- 32.300 LEVEL 5
- 28.800 LEVEL 4
- 25.300 LEVEL 3
- 21.800 LEVEL 2
- 18.300 LEVEL 1
- 14.140 LEVEL 0

CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

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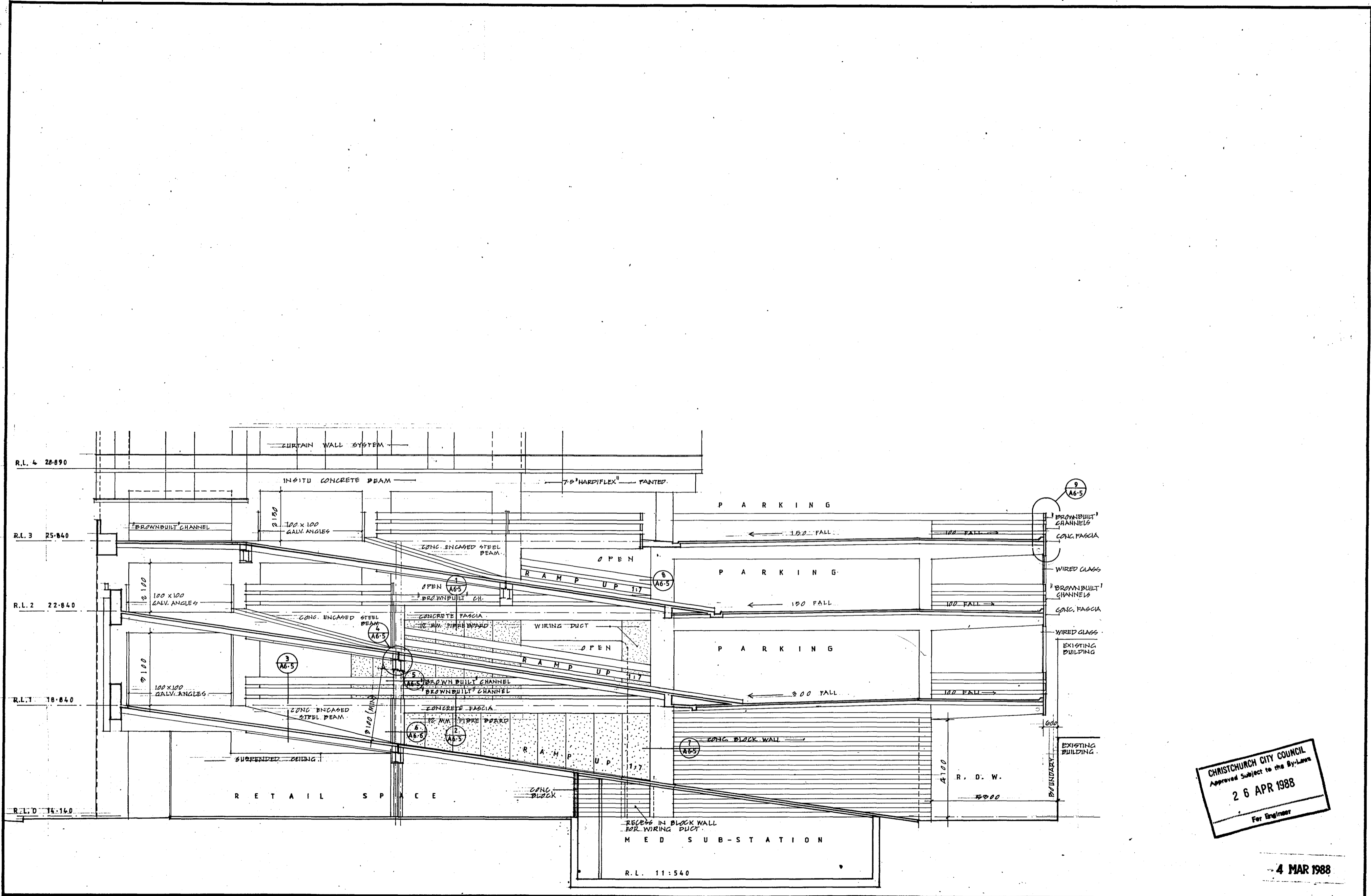
LANDMARK TOWER - CHRISTCHURCH

Revisions	Issued to:	Client	Struct	Mech	O.S.	Builder

Scale	1:200
0	1
2	3
4	5
6	

SECTION 1  
 The Contractor shall verify all dimensions before starting work

4 MAR 1988  
 Scale 1:200  
 Date 01/03/88  
**A3.5**



CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

4 MAR 1988

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LANDMARK TOWER - CHRISTCHURCH

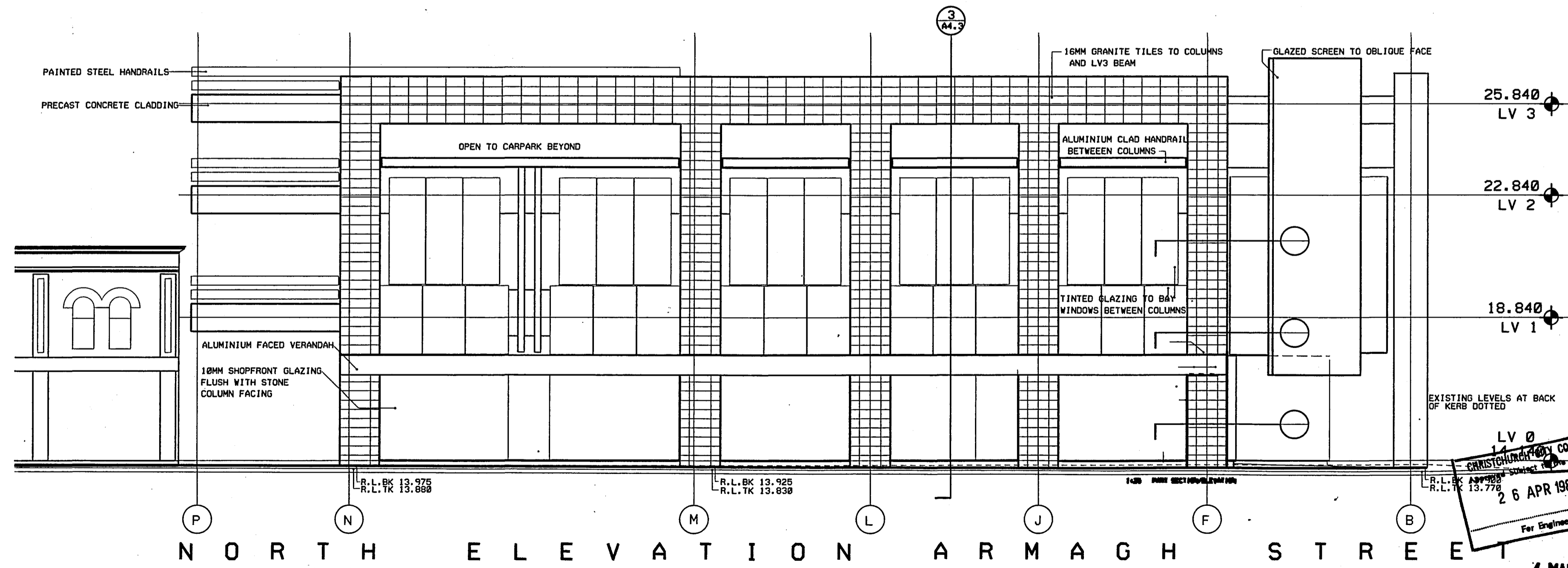
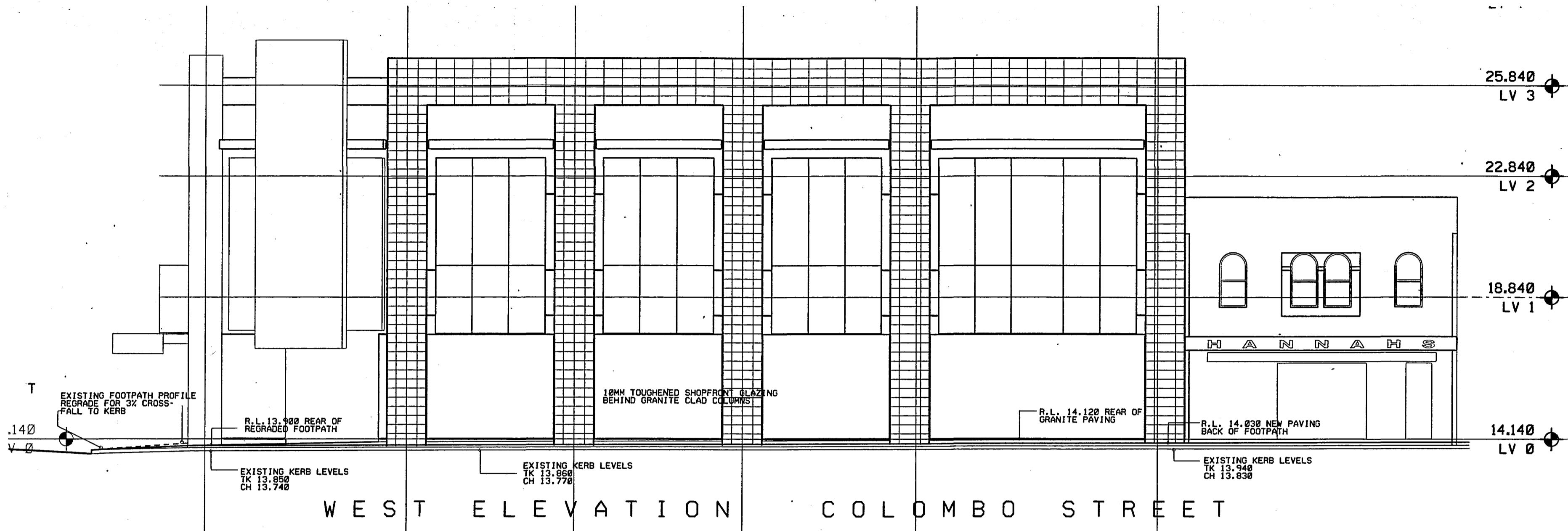
Revisions	Issued to:	Client	Struct	Mech	O.S.	Builder

Scale	1:100

SECTIONS THRU RAMPS

The Contractor shall verify all dimensions before starting work.

File 1816  
 Dwg No A4.1  
 Date FEB 88



LV 0  
 14.140  
 CHRISTCHURCH CITY COUNCIL  
 Subject to the By-Laws  
 26 APR 1988  
 For Engineer

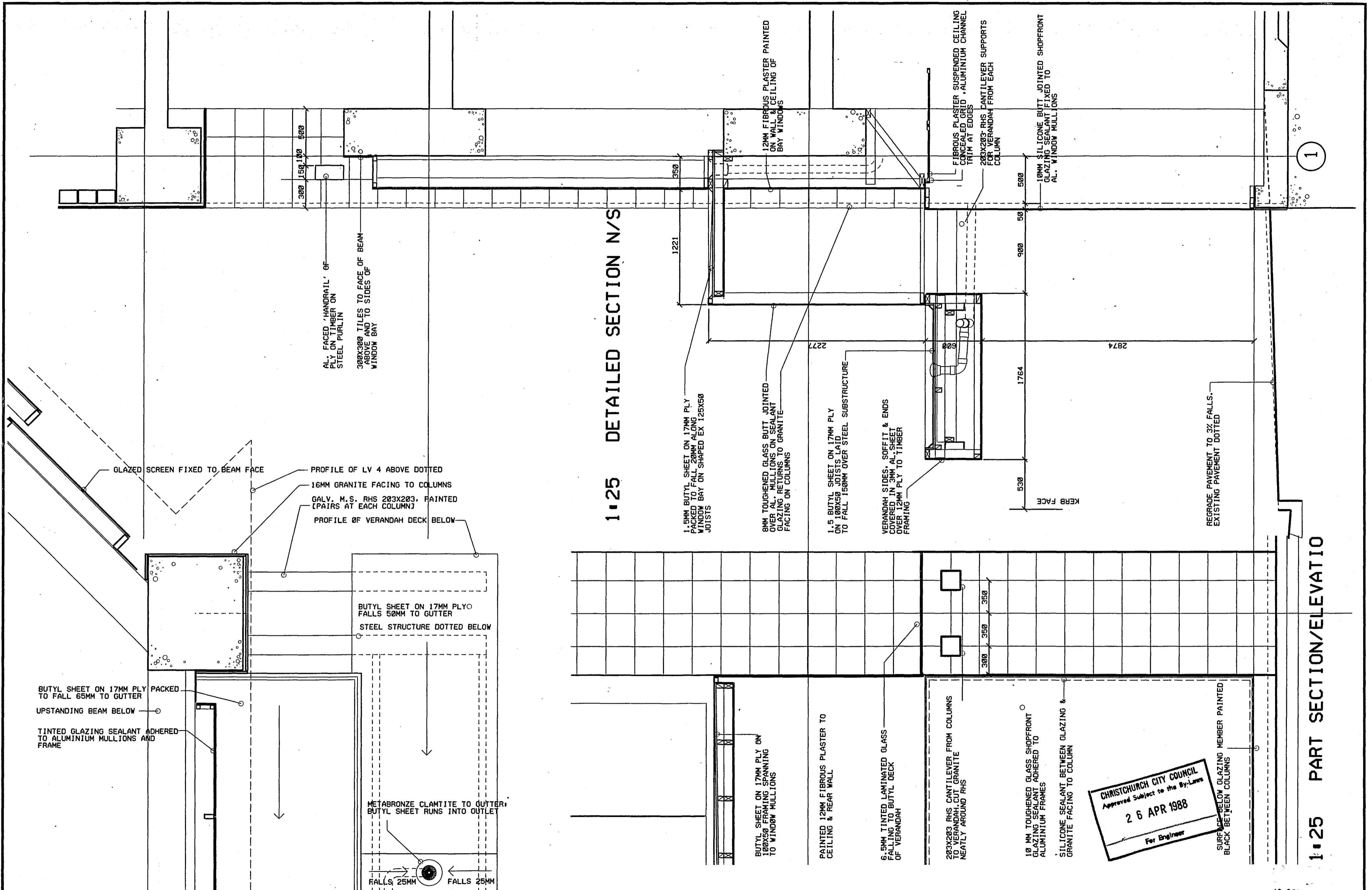
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 Christchurch, Wellington & Auckland

LANDMARK TOWER - CHRISTCHURCH

Revisions	Client	
	Struct	
	Mech	
	O.S.	
	Builder	

Issued to:	
Client	
Struct	
Mech	
O.S.	
Builder	

ELEVATIONS LV 0 - LV 3  
 NORTH & WEST  
 Scale: 1:100  
 Date: 24/02/88  
 File: T8 16  
 No. A4.2  
 Drn: C.A.U.  
 App:



1:25 DETAILED SECTION N/S

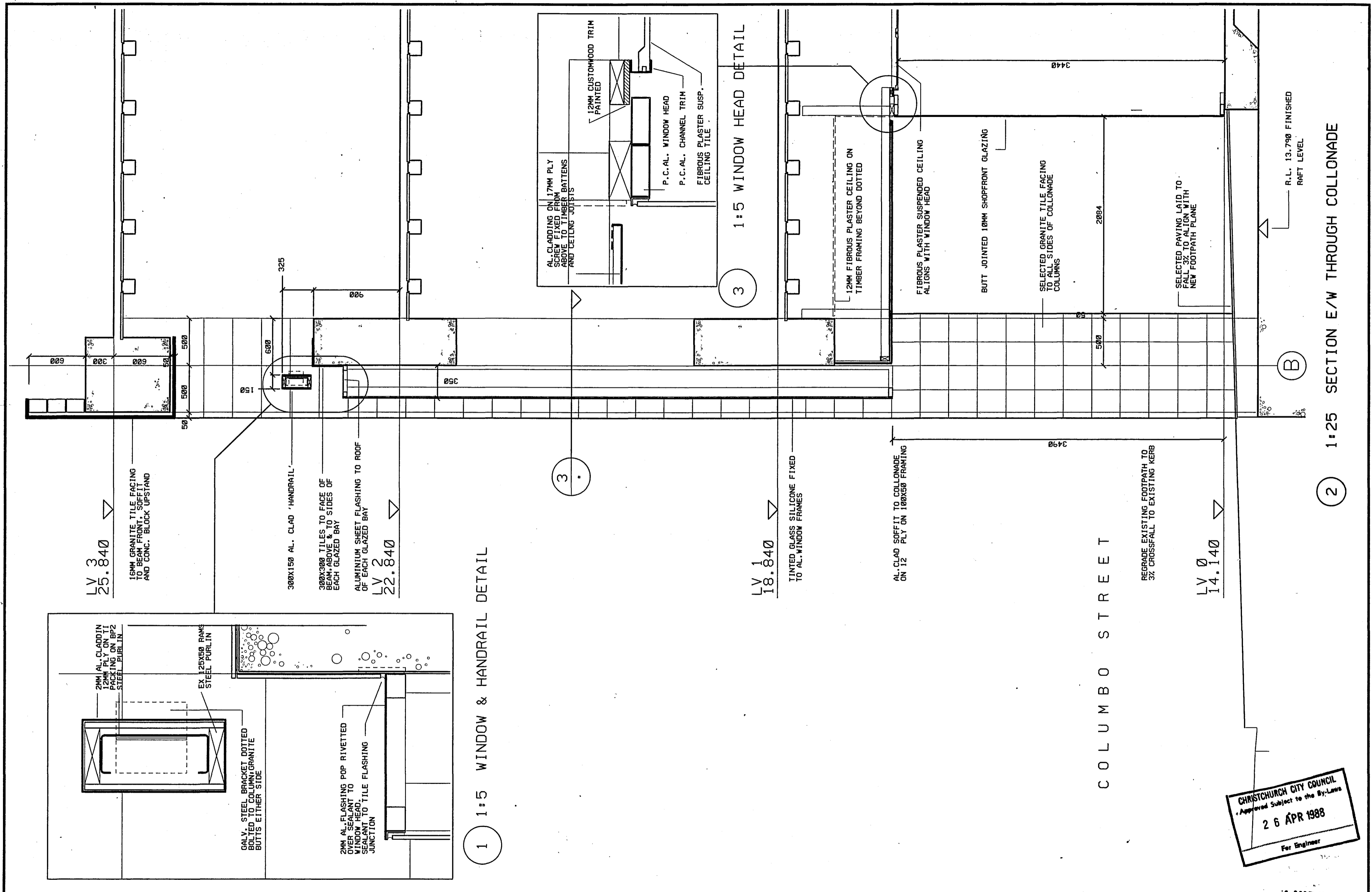
1:25 PART SECTION/ELEVATIO

CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

Revisions	Issued for
	Client
	Struct
	Mech
	O.S.
	Builder

Scale	File No.
1:25	18 16

Scale	File No.
1:25	18 16



1 1:5 WINDOW & HANDRAIL DETAIL

3 1:5 WINDOW HEAD DETAIL

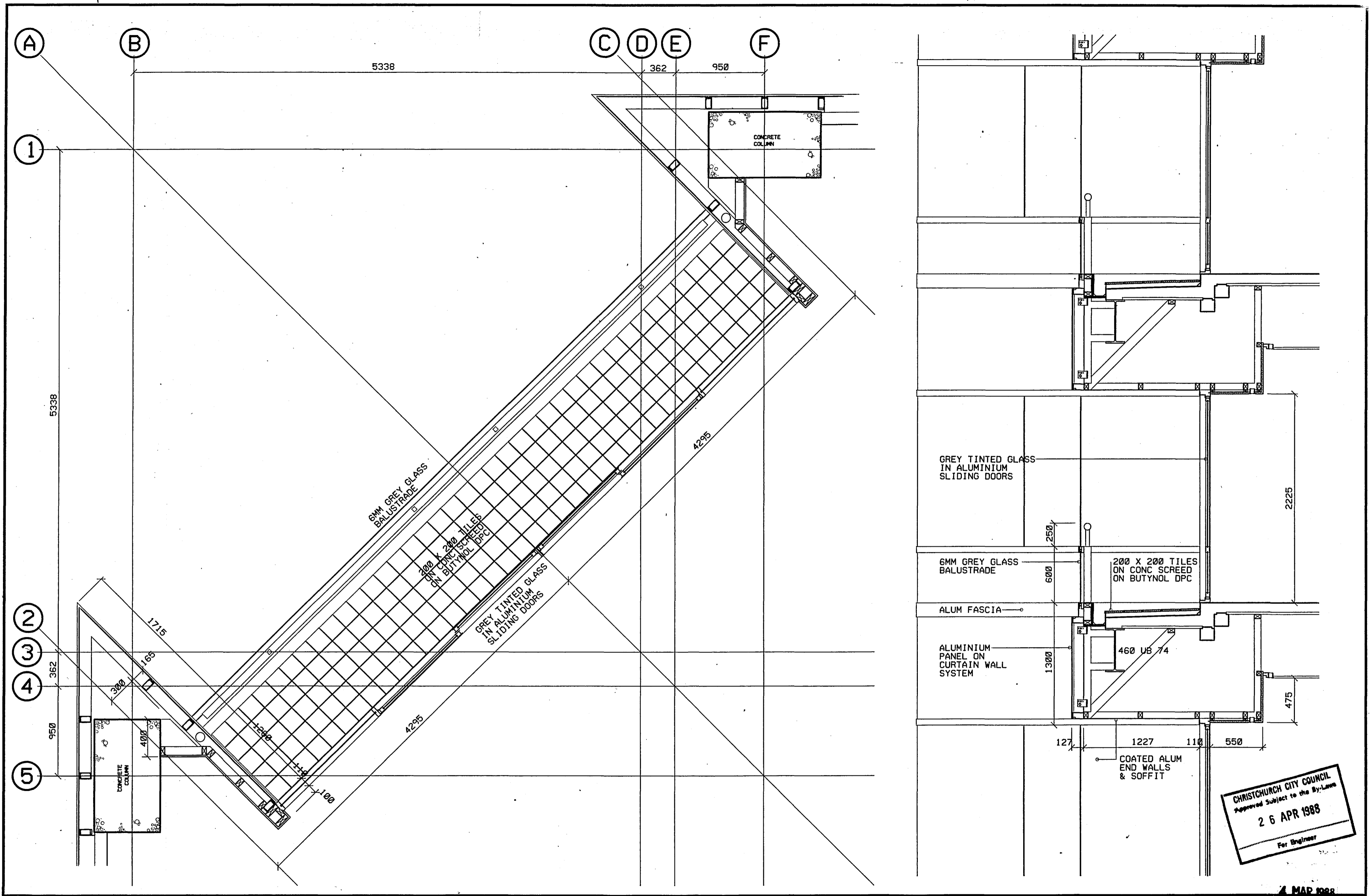
2 1:25 SECTION E/W THROUGH COLLONADE

CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

Revisions	Issued For	Client	Struct	Mech	O.S.	Builder

Client	Struct	Mech	O.S.	Builder





CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

**WM** Warren & Mahoney  
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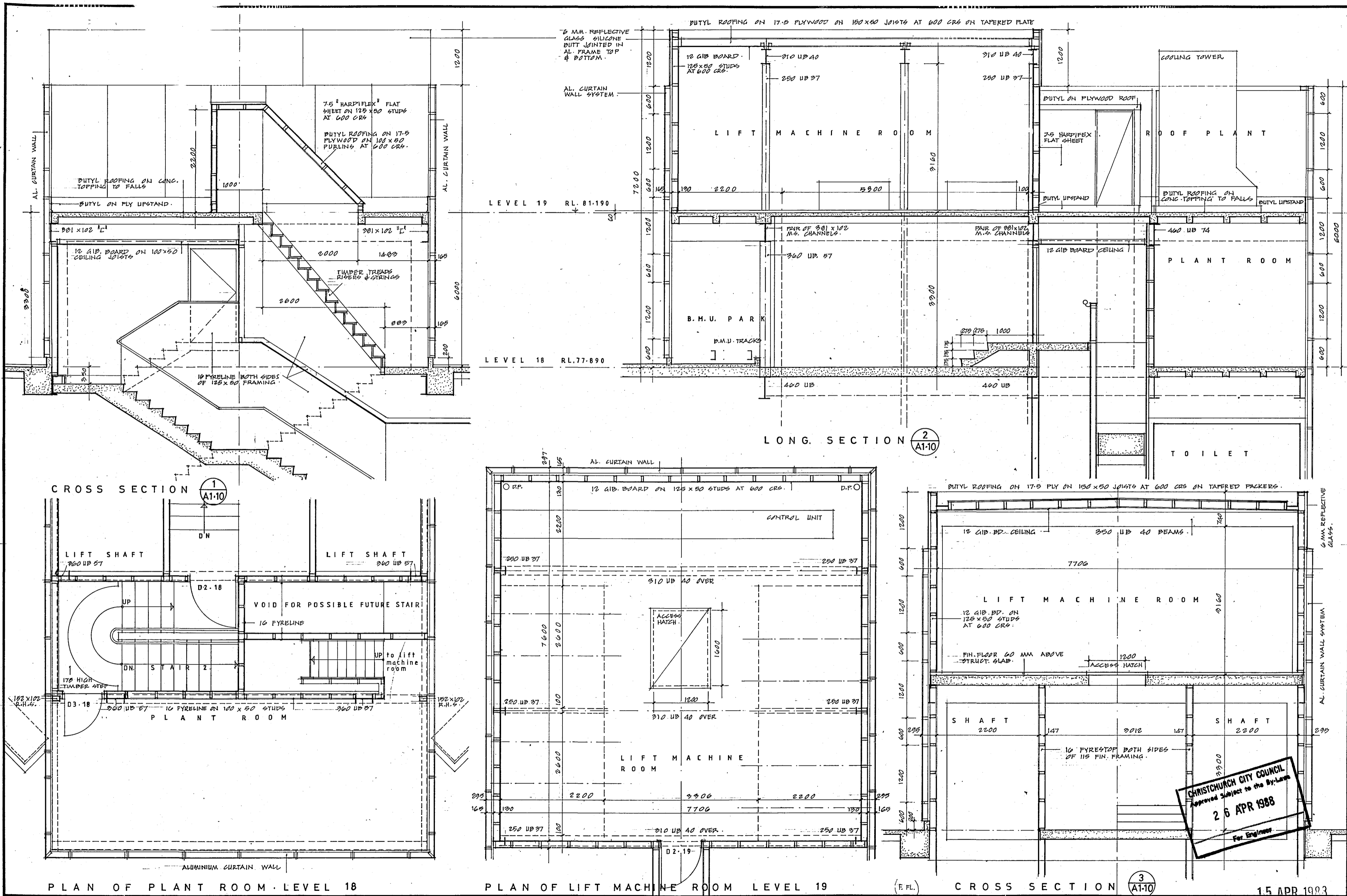
LANDMARK TOWER - CHRISTCHURCH

Revisions									
Issued to:	Client								
	Struct								
	Mech								
	O.S.								
	Builder								

BALCONY DETAILS									
0	1	2	3	4	5	6	7	8	9
The Contractor shall verify all dimensions before starting work									

Scales: 1:25  
 Date: 24/02/88  
 App: C.A.D.  
 File: 1816  
 No: A4.6

4 MAR 1988



PLAN OF PLANT ROOM - LEVEL 18

PLAN OF LIFT MACHINE ROOM LEVEL 19

CROSS SECTION 3 (A1-10)

15 APR 1983

**Warren & Mahoney Architects Ltd**  
Christchurch, Wellington & Auckland

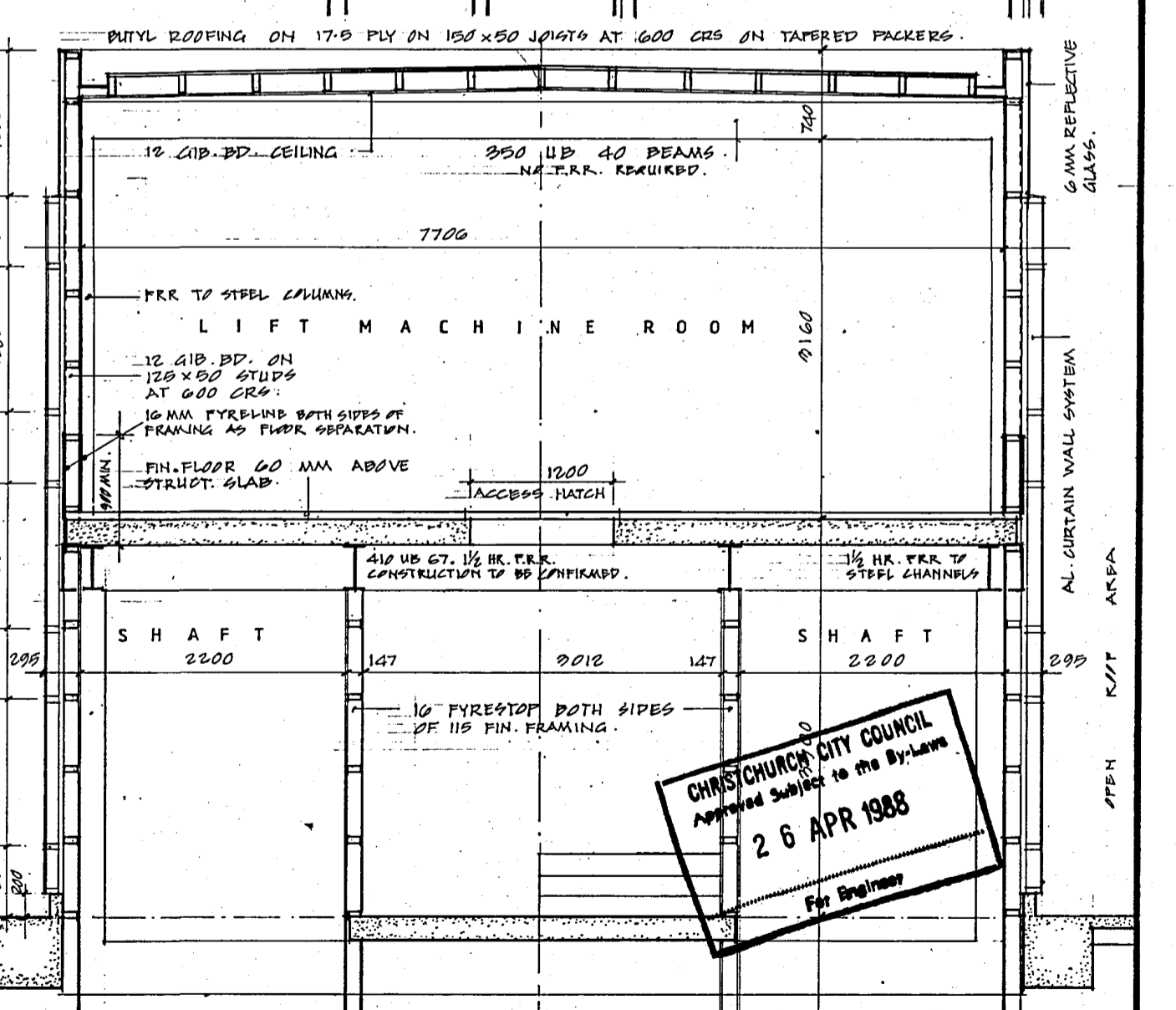
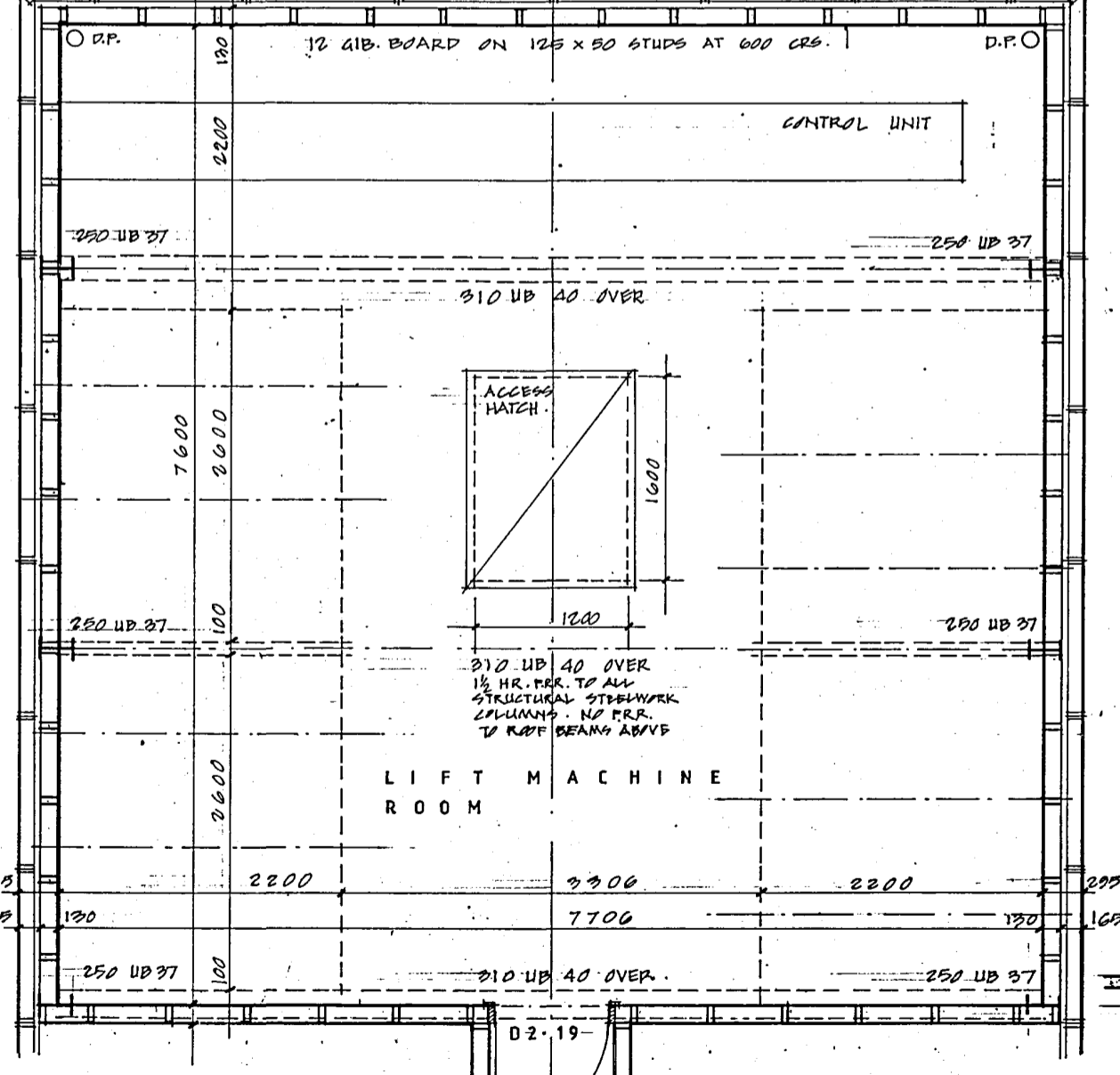
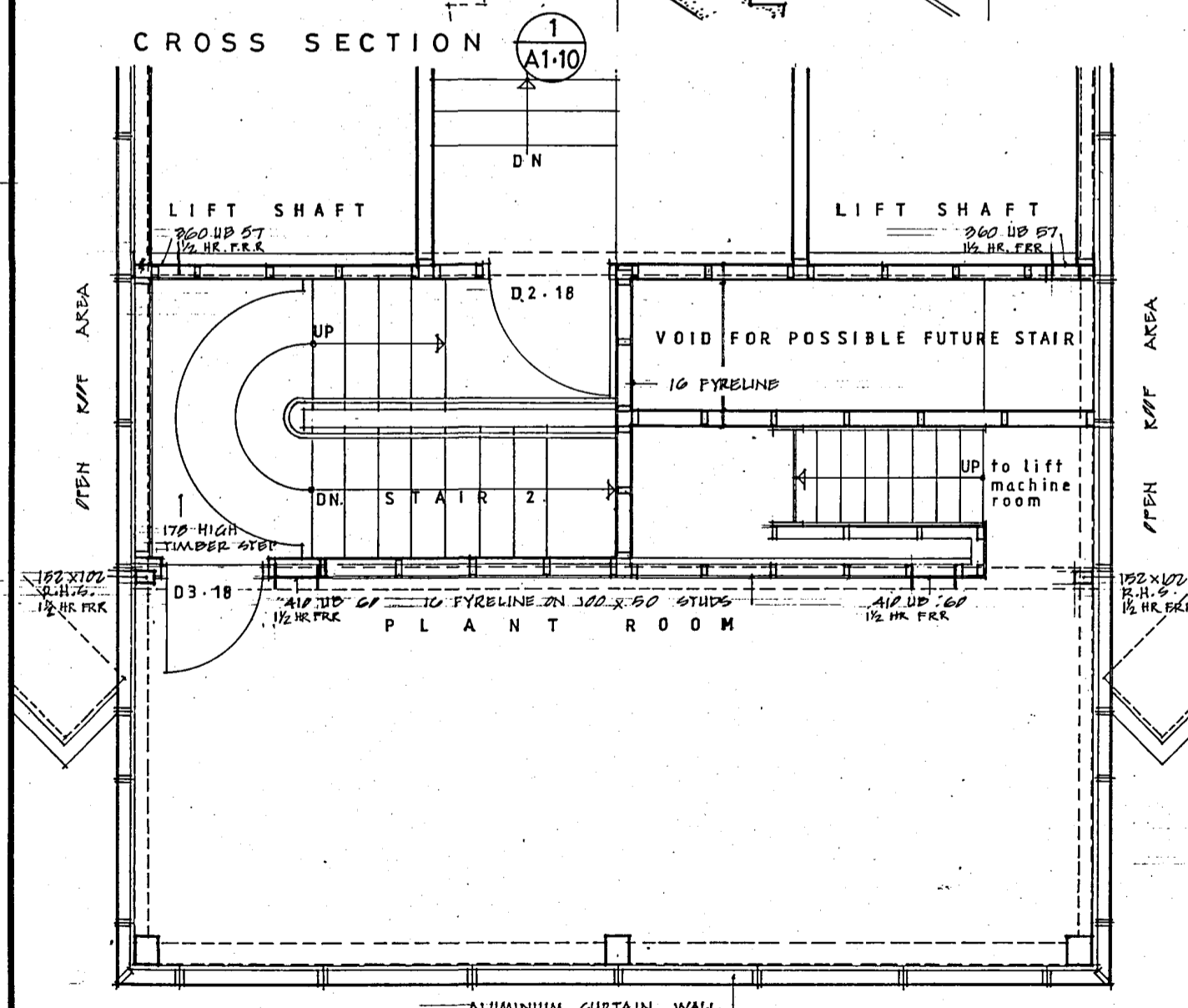
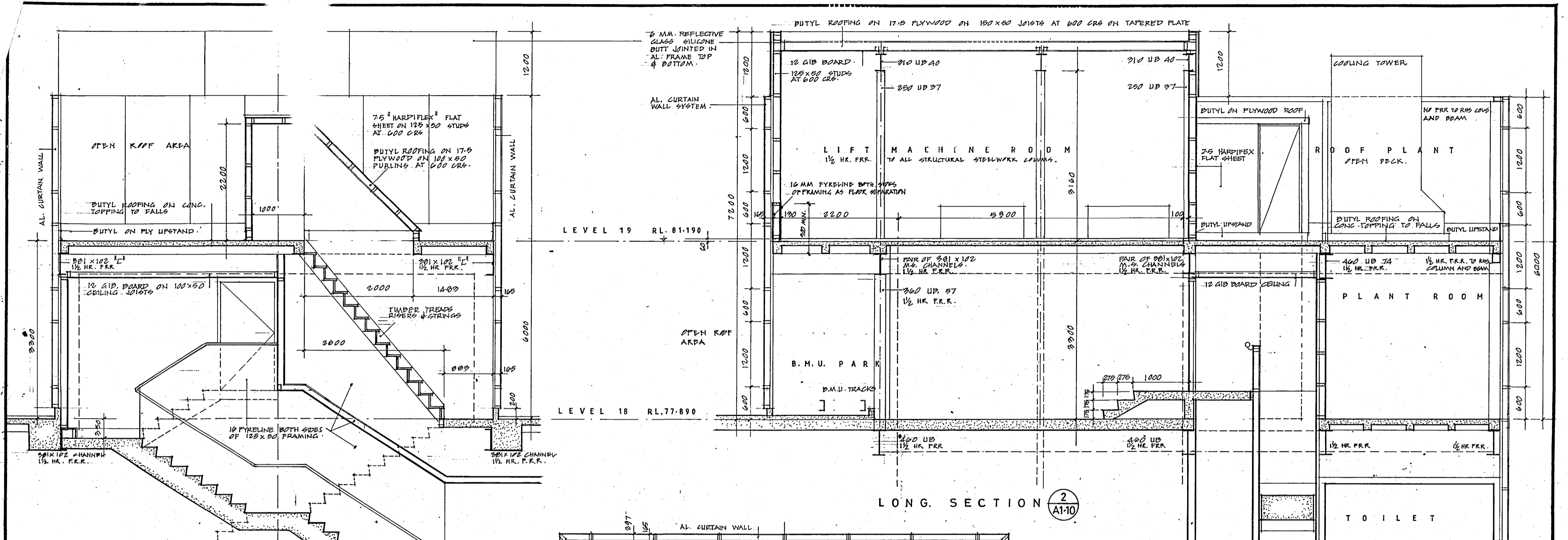
**LANDMARK TOWER CHRISTCHURCH**

Revisions	Issued to:	Client	Struct	Mech	O.S.	Builder

**LIFT MACHINE & PLANT RM. DETAILS**

Scale	1:50	File	
Dwg No	A4.7	Drn	
Date		App	

The Contractor shall verify all dimensions before starting work



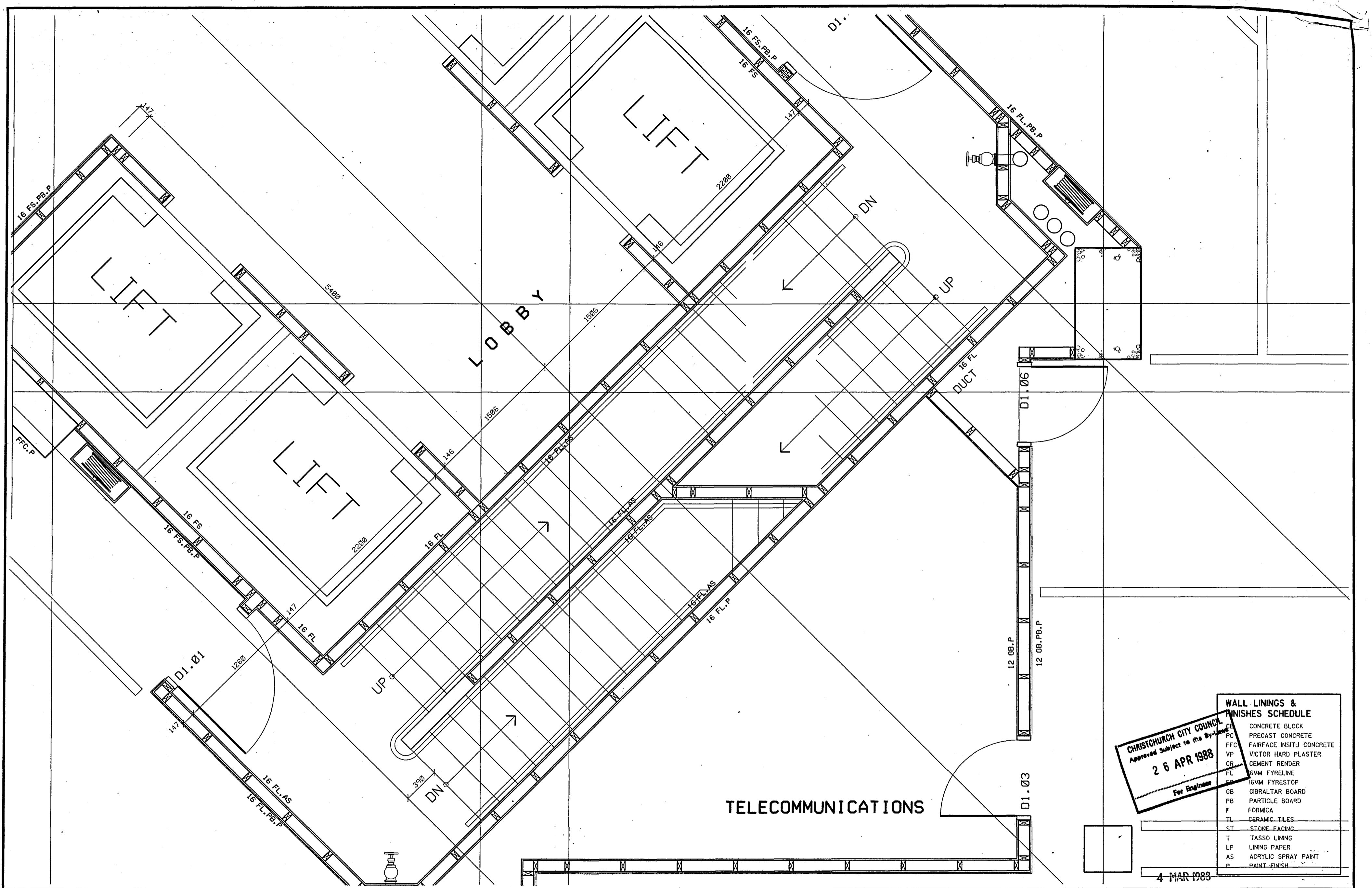
PLAN OF PLANT ROOM LEVEL 18

PLAN OF LIFT MACHINE ROOM LEVEL 19

CROSS SECTION 3 A1-10

20 APR 1988

CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer



**CHRISTCHURCH CITY COUNCIL**  
 Approved Subject to the By-Laws  
**26 APR 1988**  
 For Engineer

**WALL LININGS & FINISHES SCHEDULE**

CB	CONCRETE BLOCK
PC	PRECAST CONCRETE
FFC	FAIRFACE INSITU CONCRETE
VP	VICTOR HARD PLASTER
CR	CEMENT RENDER
FL	6MM FYRELINE
FB	6MM FYRESTOP
GB	GIBRALTAR BOARD
PB	PARTICLE BOARD
F	FORMICA
TL	CERAMIC TILES
ST	STONE FACING
T	TASSO LINING
LP	LINING PAPER
AS	ACRYLIC SPRAY PAINT
P	PAINT FINISH

4 MAR 1988

**Warren & Mahoney Architects Ltd**  
 Christchurch, Wellington & Auckland

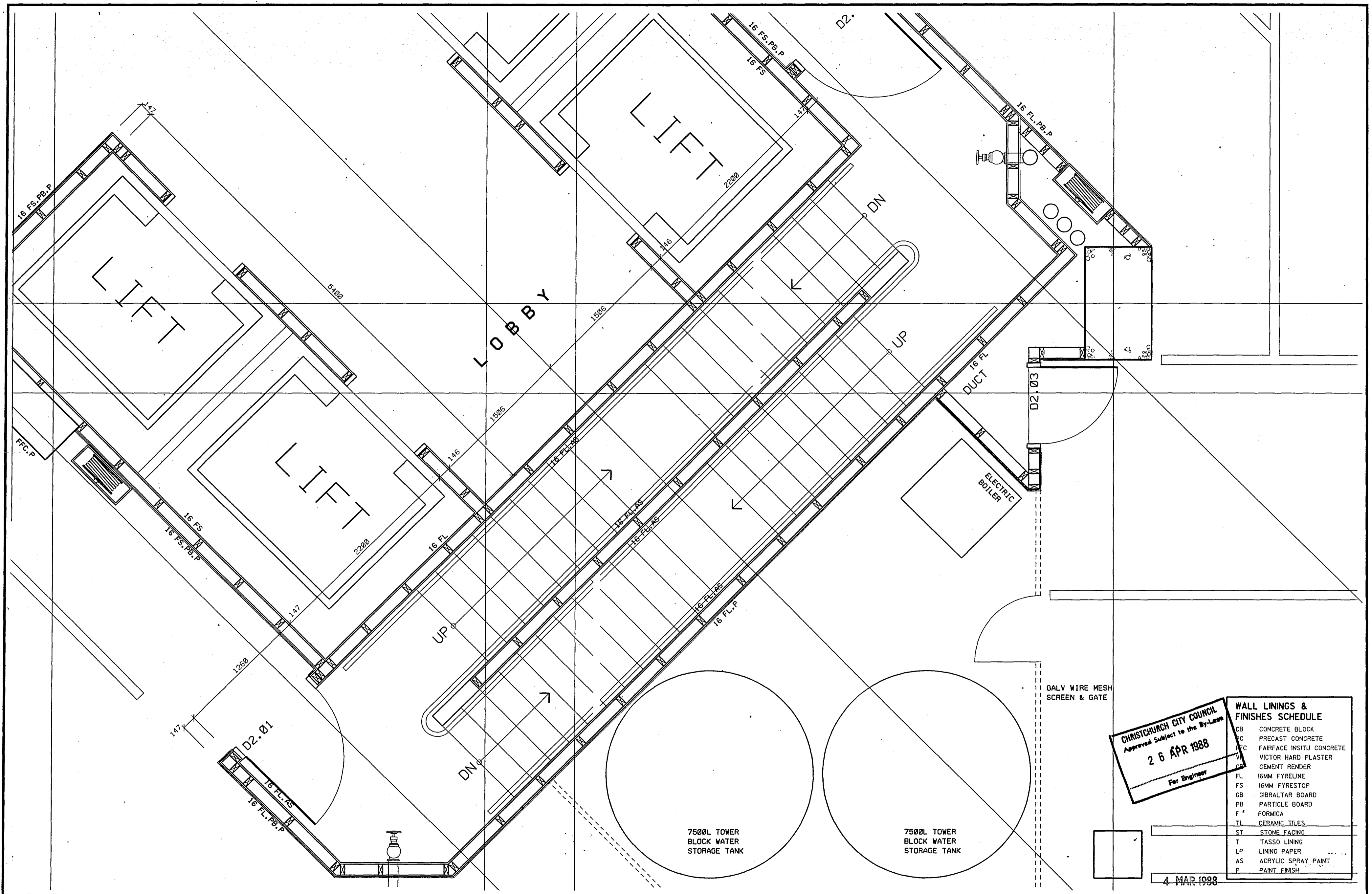
**LANDMARK TOWER - CHRISTCHURCH**

Revisions	
Issued To	
Client	
Struct	
Mech	
O.S.	
Builder	

Client	
Struct	
Mech	
O.S.	
Builder	

**LEVEL 10 CORE PLAN**  
 Scale: 1:25  
 The Contractor shall verify all dimensions before starting work.

File 18 16  
 No. **A5.2**  
 Date 24/02/88



CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
**26 APR 1988**  
 For Engineer

**WALL LININGS & FINISHES SCHEDULE**

CB	CONCRETE BLOCK
PC	PRECAST CONCRETE
FC	FAIRFACE INSITU CONCRETE
VH	VICTOR HARD PLASTER
CR	CEMENT RENDER
FL	16MM FYRELINE
FS	16MM FYRESTOP
GB	GIBALTAR BOARD
PB	PARTICLE BOARD
F4	FORMICA
TL	CERAMIC TILES
ST	STONE FACING
T	TASSO LINING
LP	LINING PAPER
AS	ACRYLIC SPRAY PAINT
P	PAINT FINISH

4 MAR 1988

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 Christchurch, Wellington & Auckland

**LANDMARK TOWER - CHRISTCHURCH**

Revisions	Client	Struct	Mech	D.S.	Builder

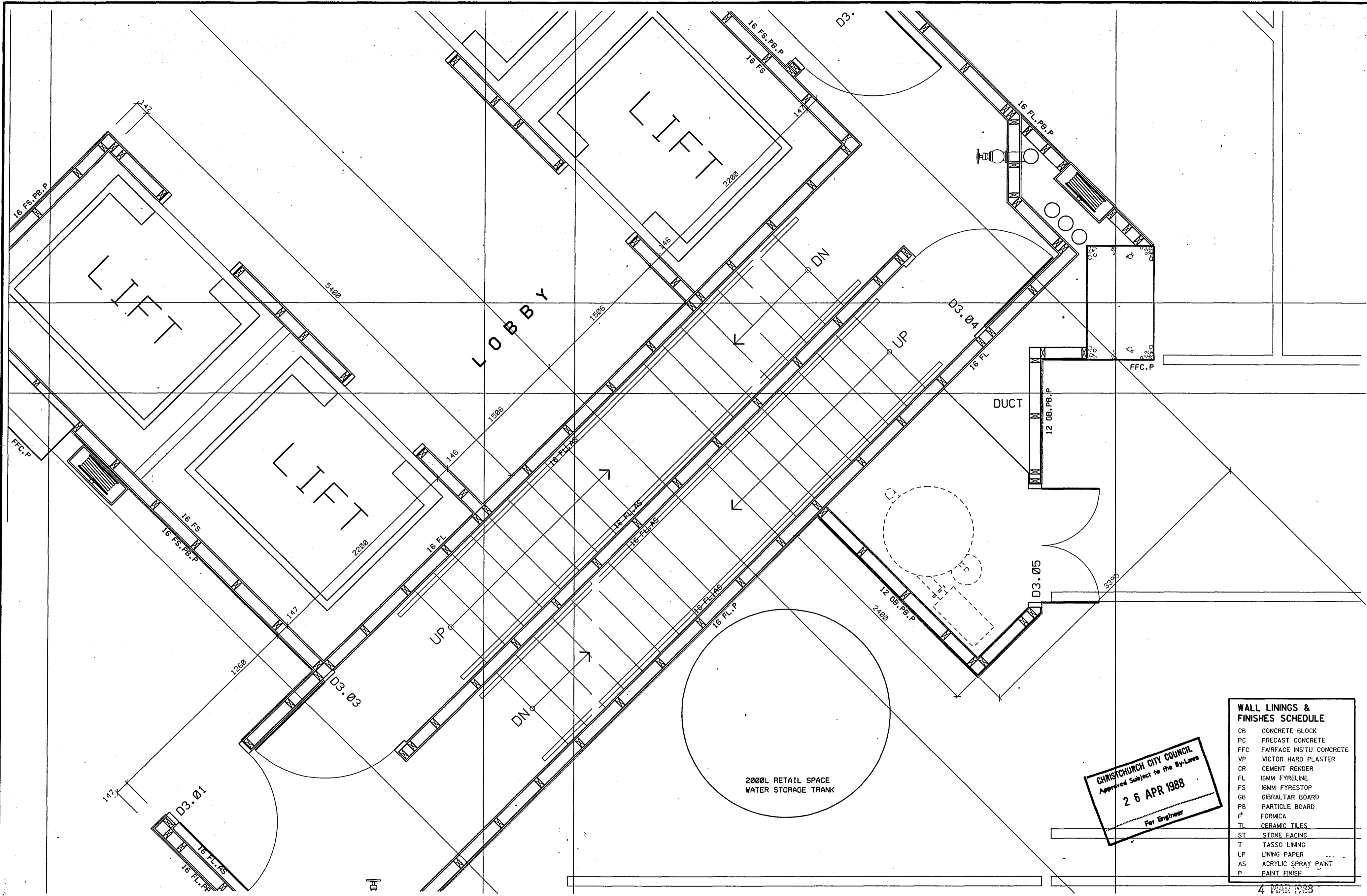
Client	Struct	Mech	D.S.	Builder

**LEVEL 2 CORE PLAN**

Scale: 1:25

The Contractor shall verify all dimensions before starting work

File 18 16  
 Dwg No  
**A5.3**  
 Date 22/02/88



**WALL LININGS & FINISHES SCHEDULE**

CB	CONCRETE BLOCK
PC	PRECAST CONCRETE
FFC	FAIRFACE INSITU CONCRETE
VP	VICTOR HARD PLASTER
CR	CEMENT RENDER
FL	16MM FYRELIN
FS	16MM FYSTOP
GB	GIBALTAR BOARD
PB	PARTICLE BOARD
F	FORMICA
TL	CERAMIC TILES
ST	STONE FACING
T	TASSO LINING
LP	LINING PAPER
AS	ACRYLIC SPRAY PAINT
P	PAINT FINISH

**CHRISTCHURCH CITY COUNCIL**  
 Approved Subject to the By-Laws  
**26 APR 1988**  
 For Engineer

4 MAR 1988

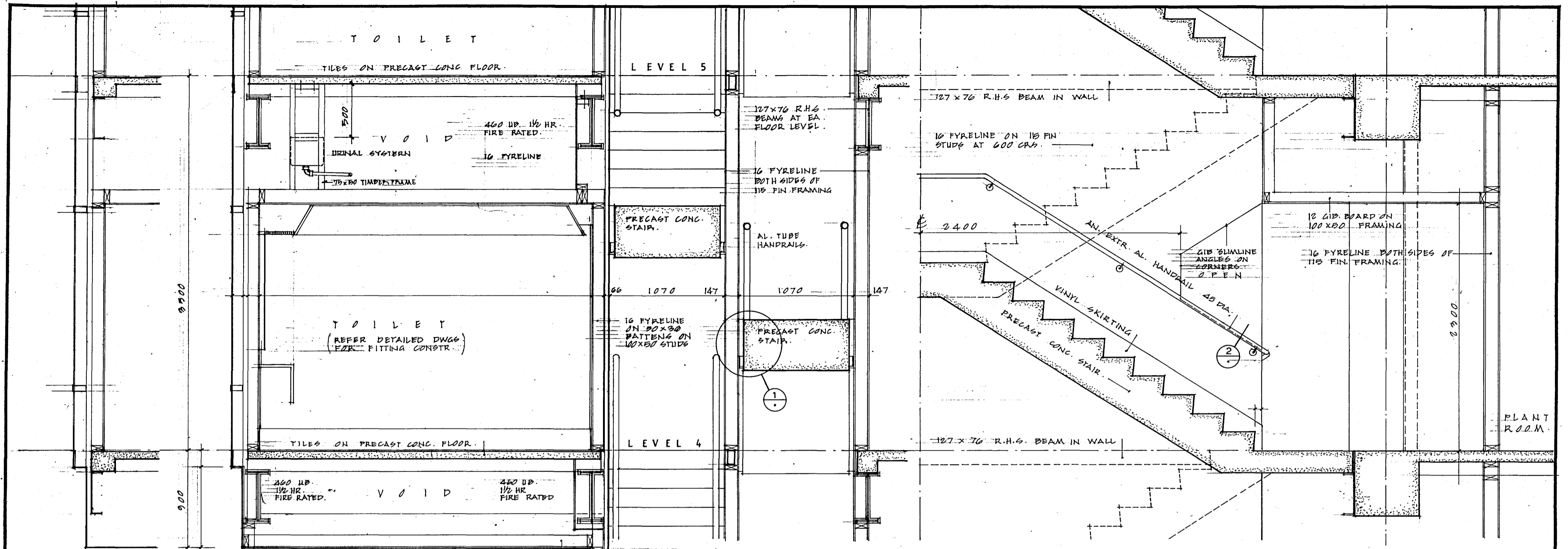
**Warren & Mahoney Architects Ltd**  
 Christchurch, Wellington & Auckland

**LANDMARK TOWER - CHRISTCHURCH**

Revisions	Issued To	Client	Struct	Mech	D.S.	Builder

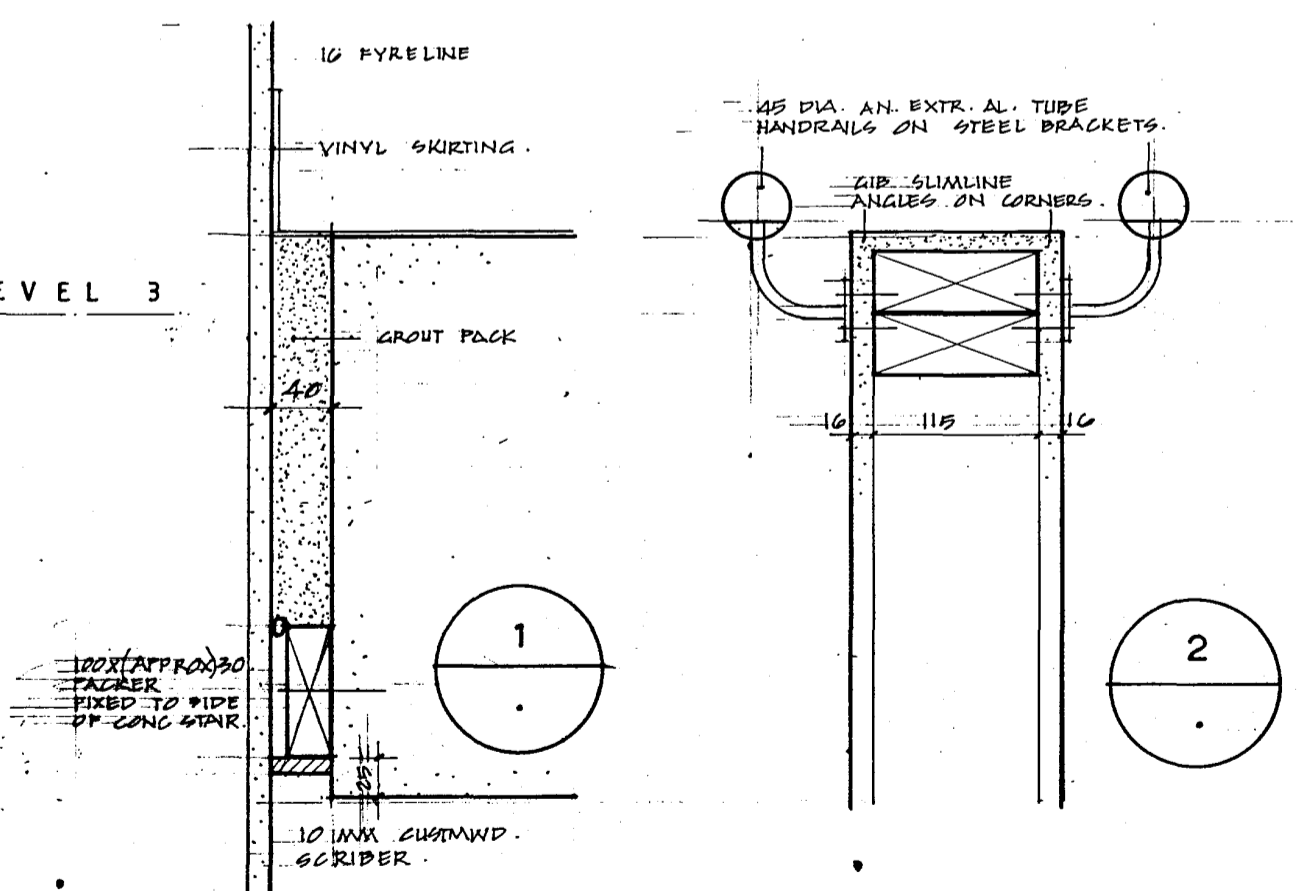
**LEVEL 3 CORE PLAN**  
 Scale: 1:25  
 The Contractor shall verify all dimensions before starting work

File 18 16  
 DWG NO  
**A5.4**  
 Drn C.A.B.  
 Date 22/02/85



CROSS SECTION THRU STAIRS & TOILETS LEVELS 3, 4 & 5

HALF LONG. SECTION THRU TYPICAL STAIR LEVELS 4-19

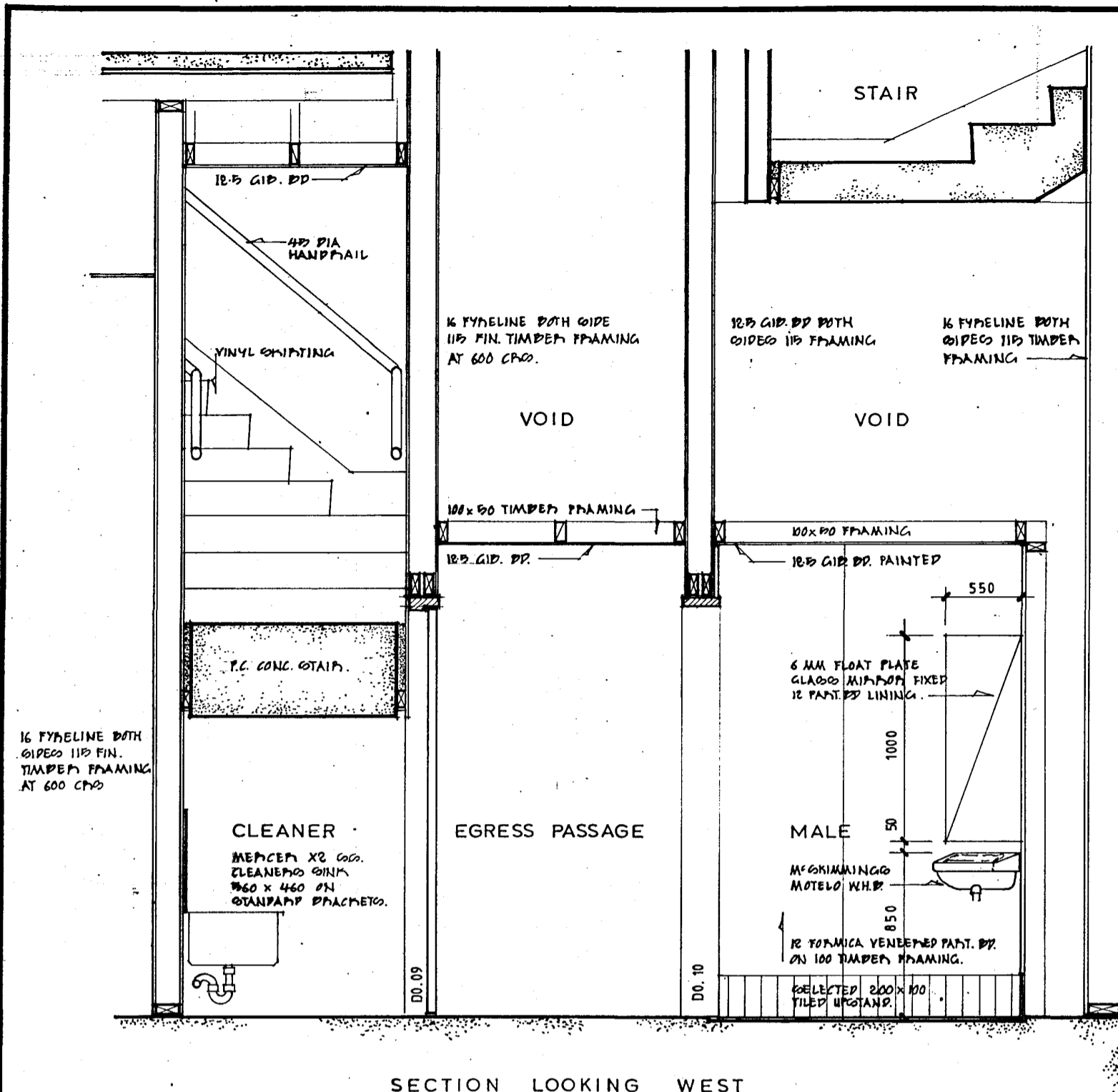


CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

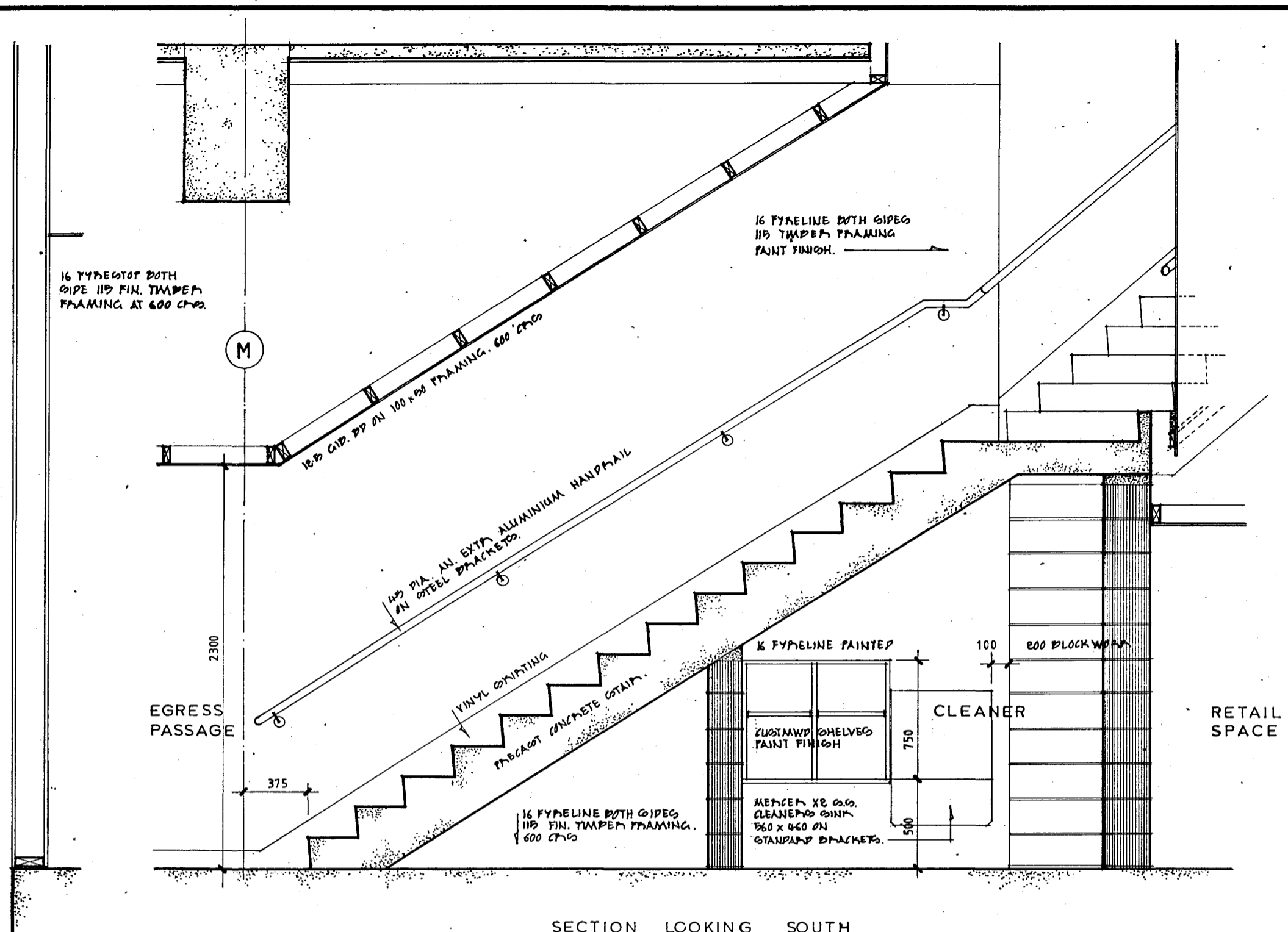
4 MAR 1988

Revisions	Issued to:	Client	Struct	Mech	O.S.	Builder

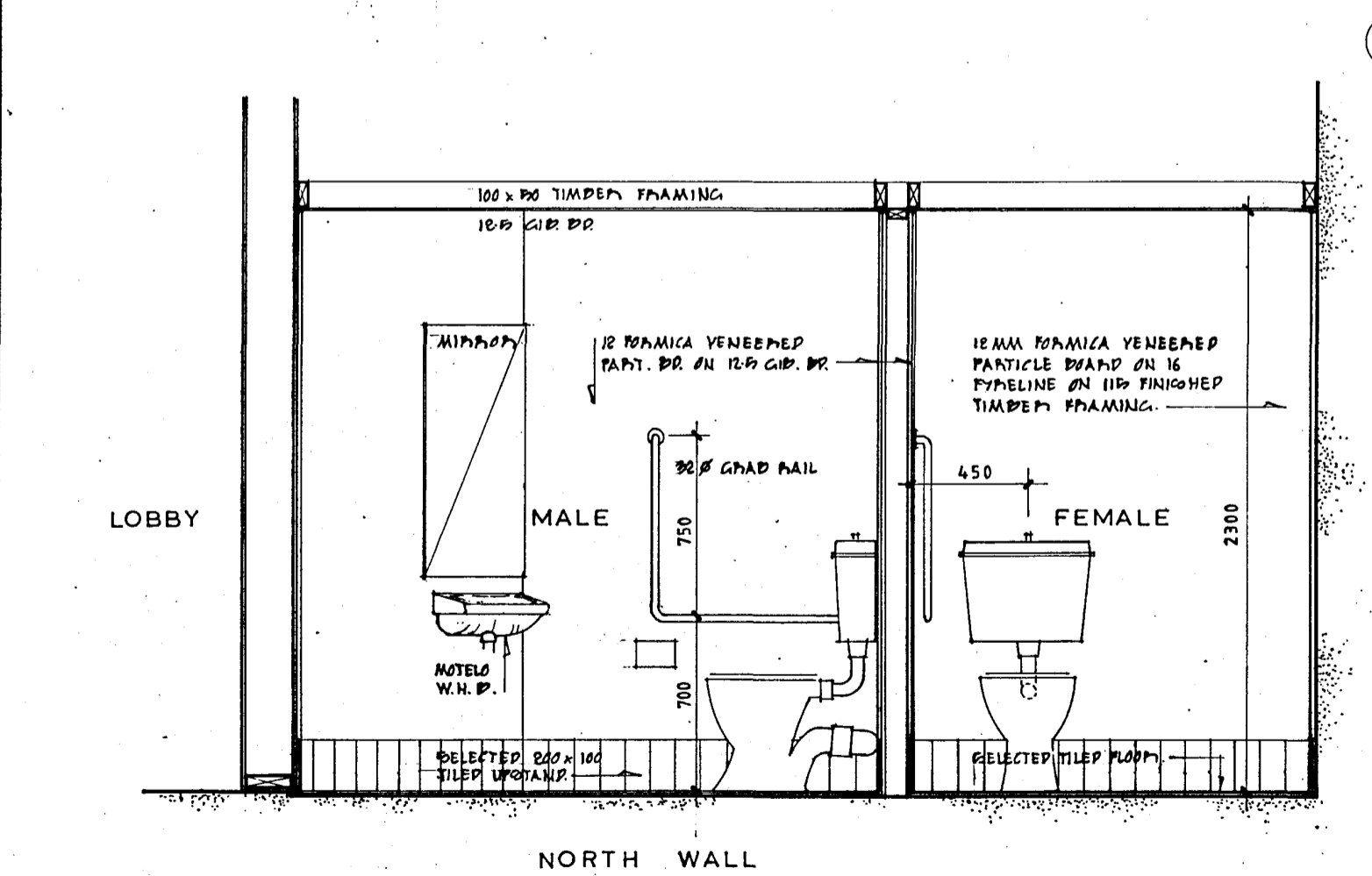
Scale	1:25	1:5



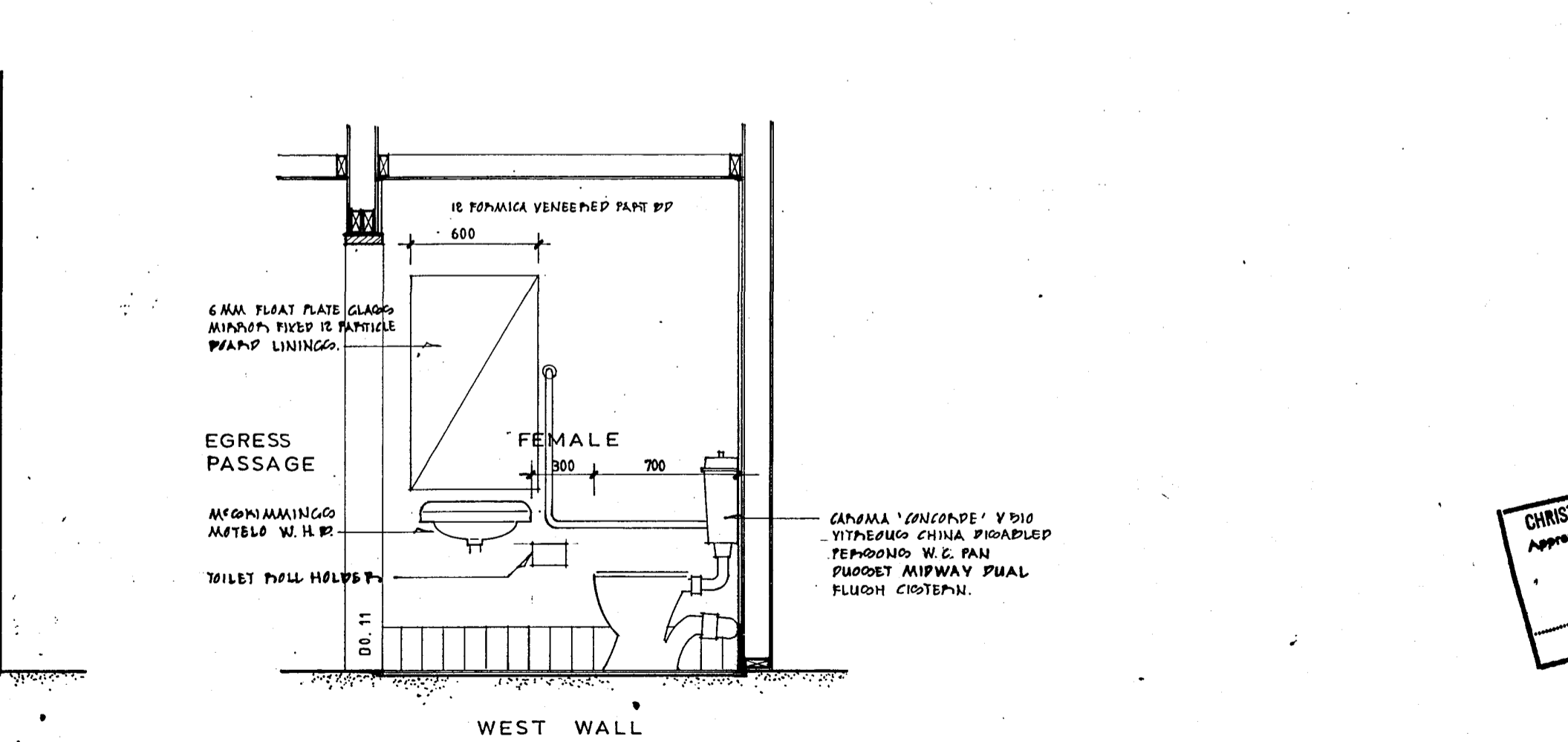
SECTION LOOKING WEST



SECTION LOOKING SOUTH



NORTH WALL



WEST WALL

CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

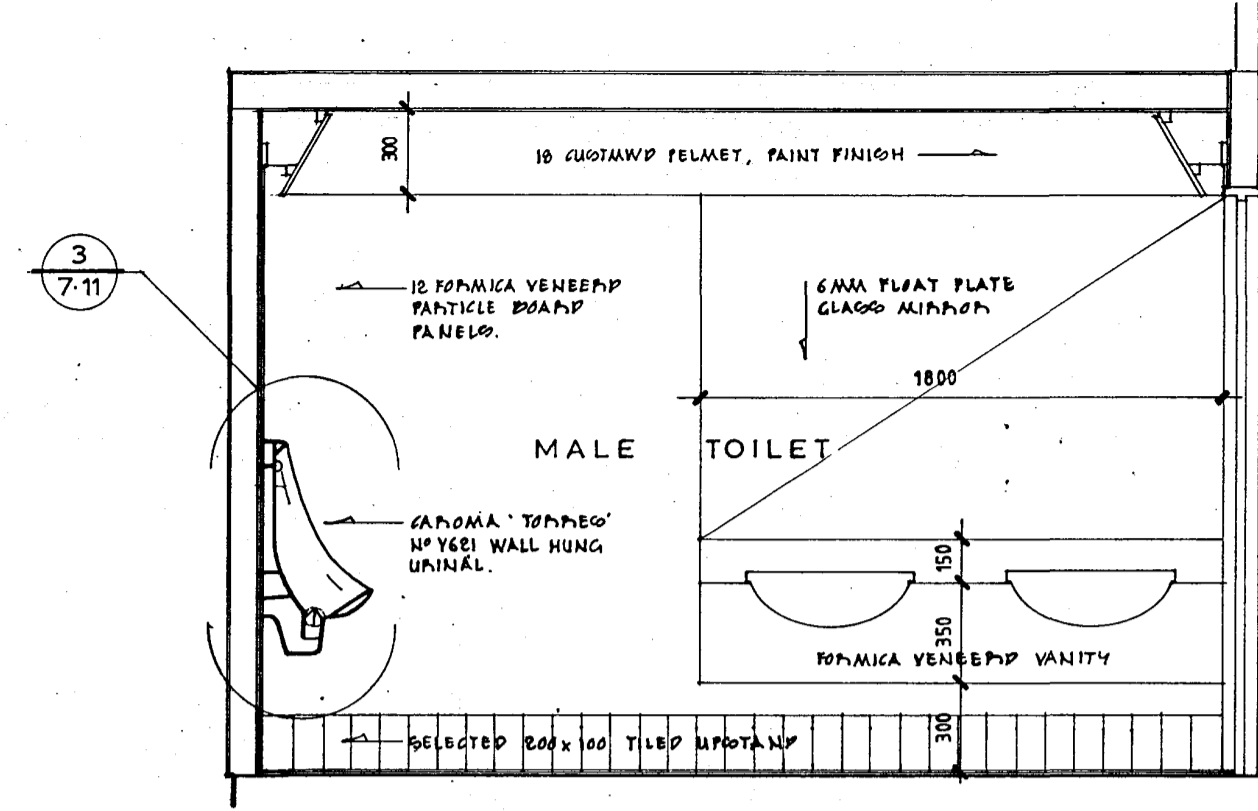
4 MAR 1988

Revisions					
Issued to:	Client	Struct	Mech	O.S.	Builder

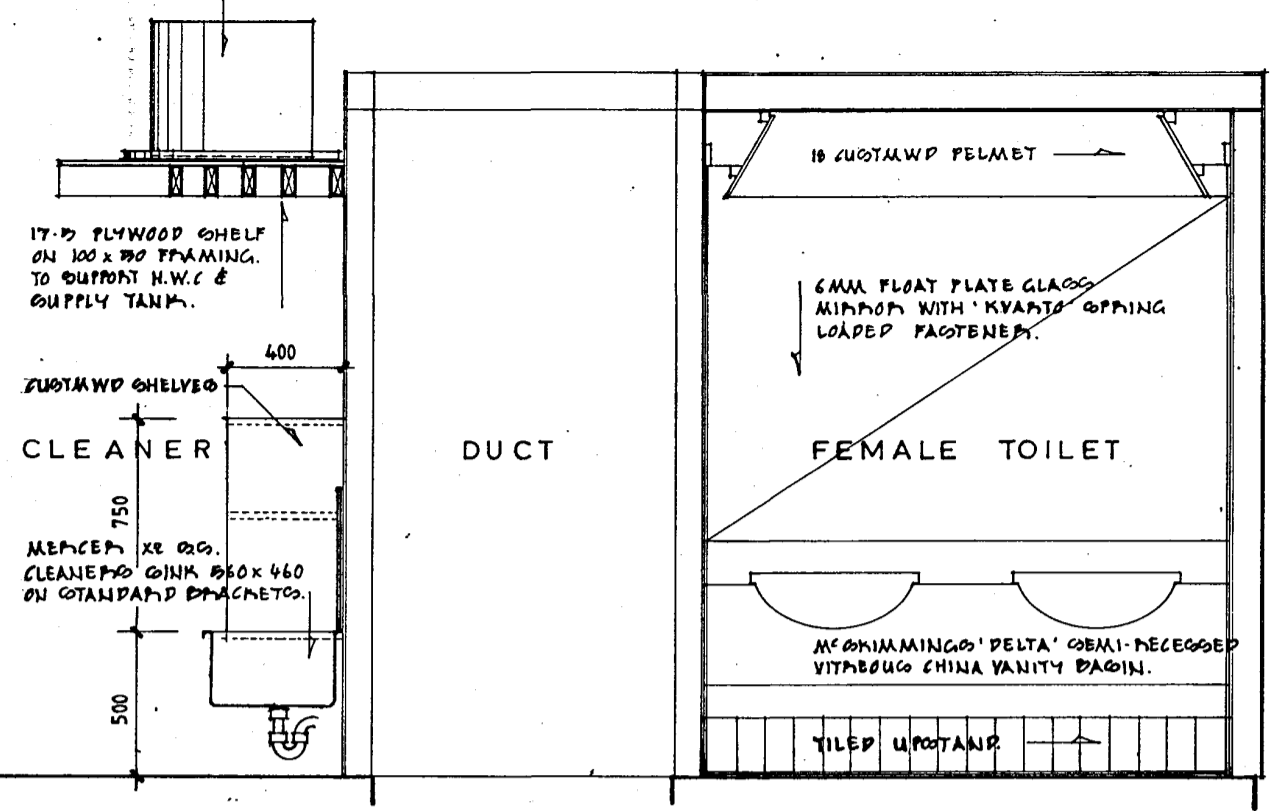
TOILET ELEVATIONS & SECTIONS LEVEL 0		Scale	File No.
		1:25	1812
		Drn LA	Dwg No.
		App	A510
			Date FEB 84



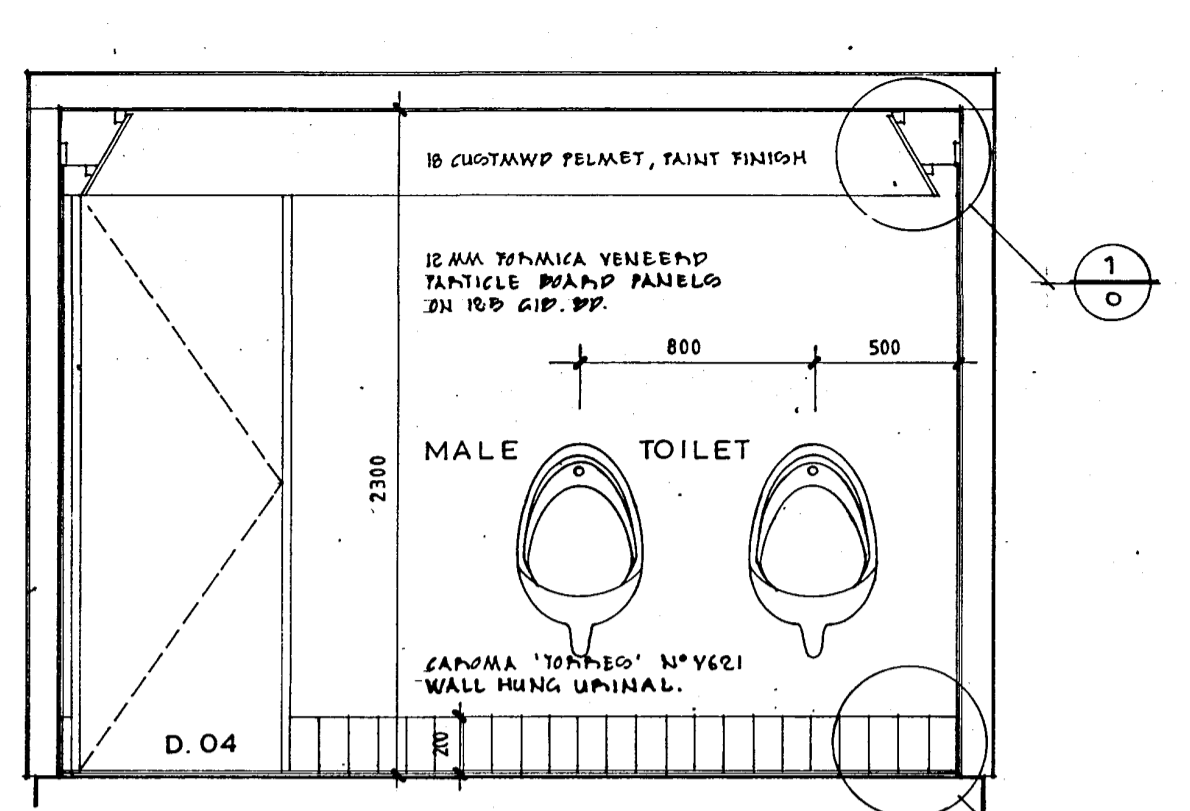
NUNA 100 LITRE WATER SUPPLY TANK WITH OVERFLOW TRAY



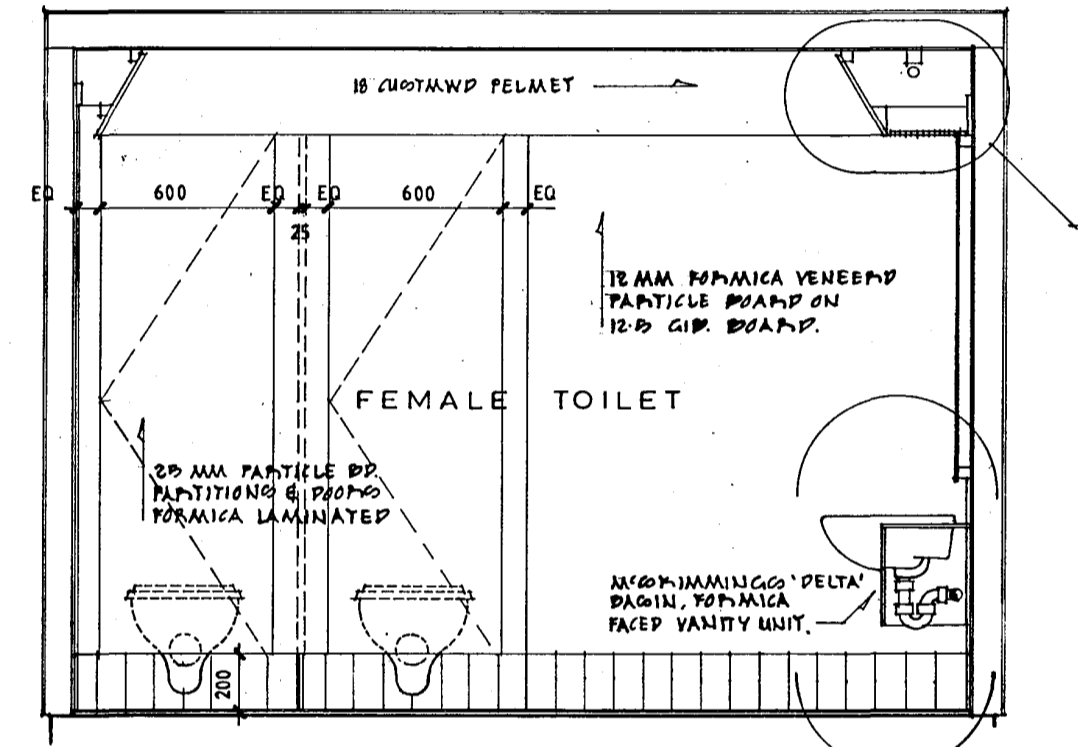
SECTION - SOUTH EAST WALL



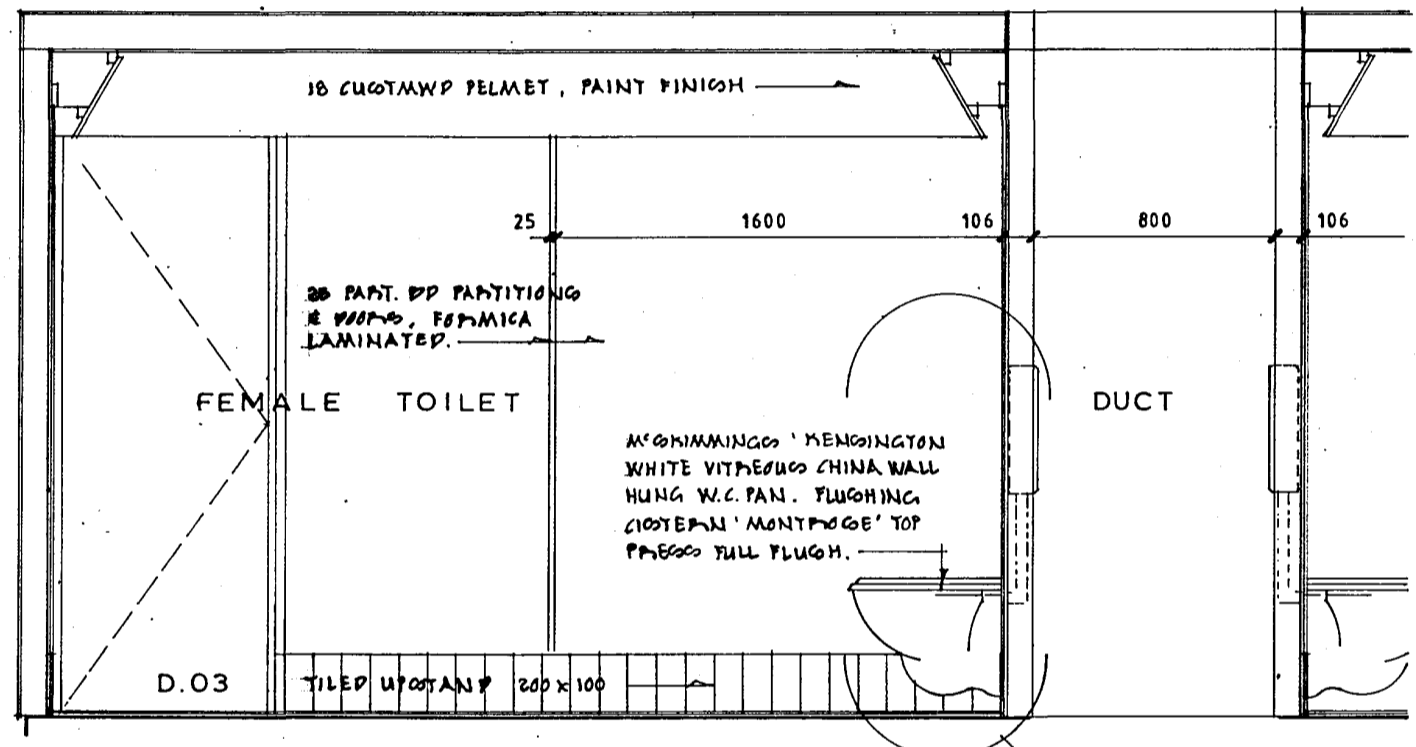
SCALE 1:25



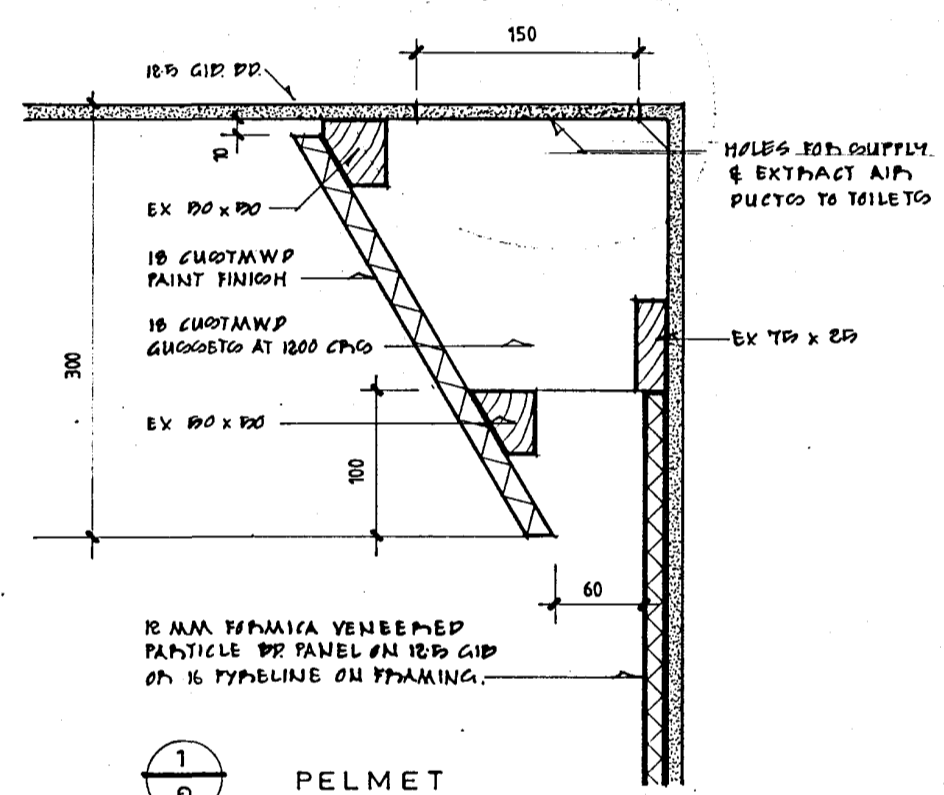
NORTH EAST WALL



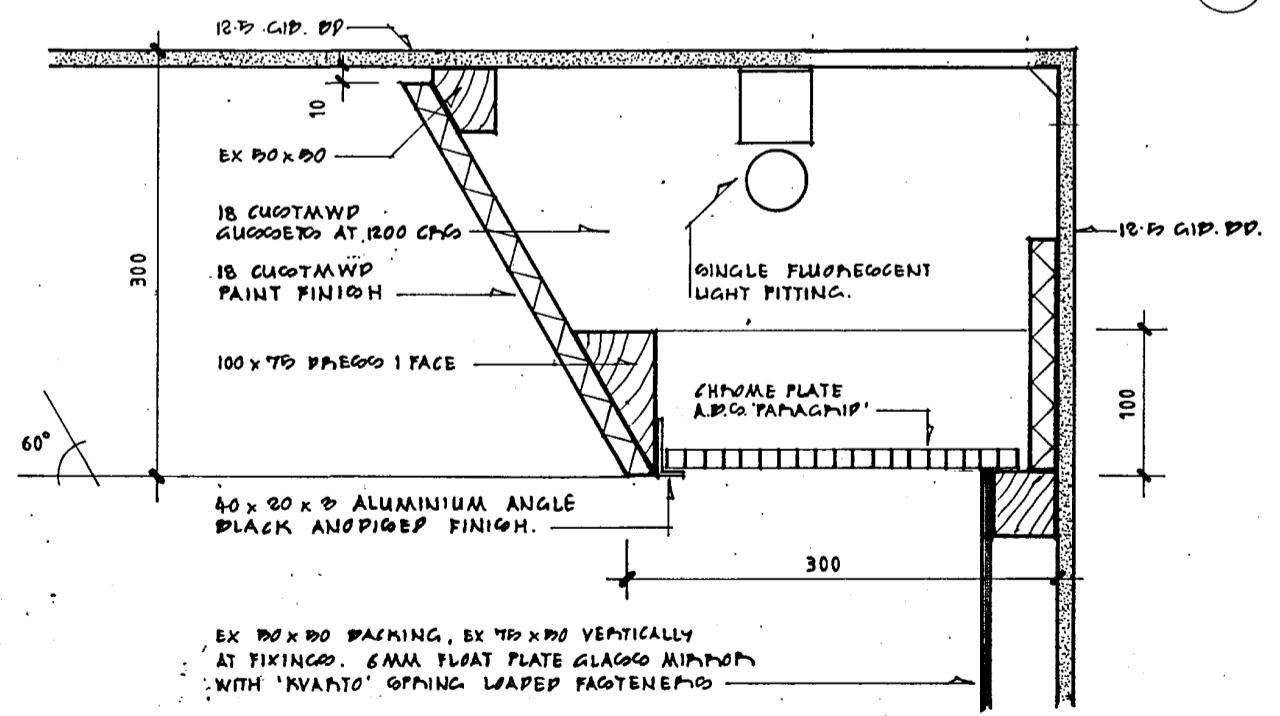
NORTH EAST WALL



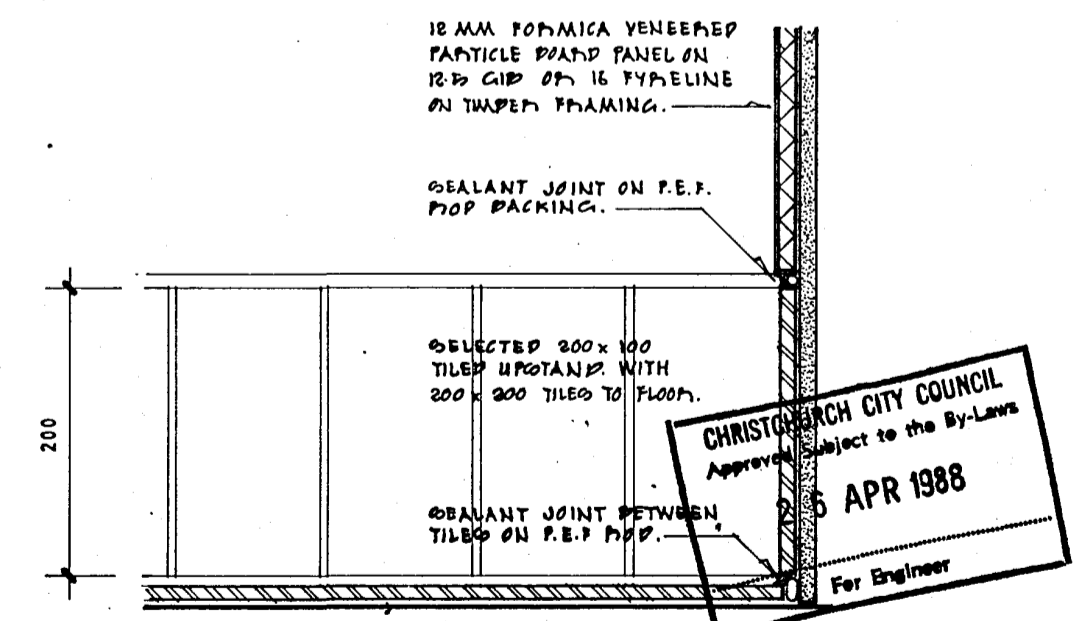
SOUTH EAST WALL



PELMET



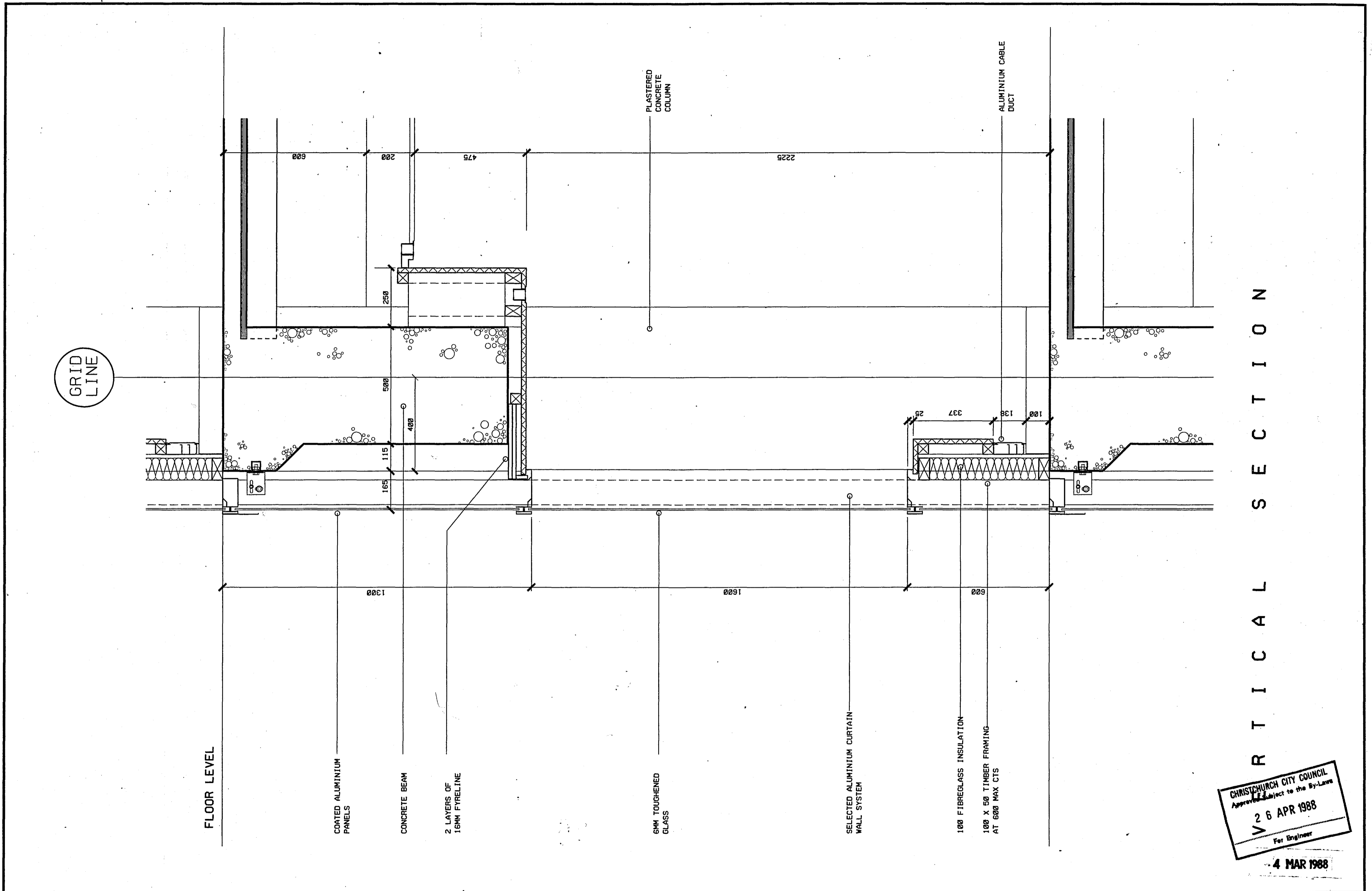
LIGHTING PELMET



TILED UPSTAND

CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 5 APR 1988  
 For Engineer

4 MAR 1988



CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

4 MAR 1988

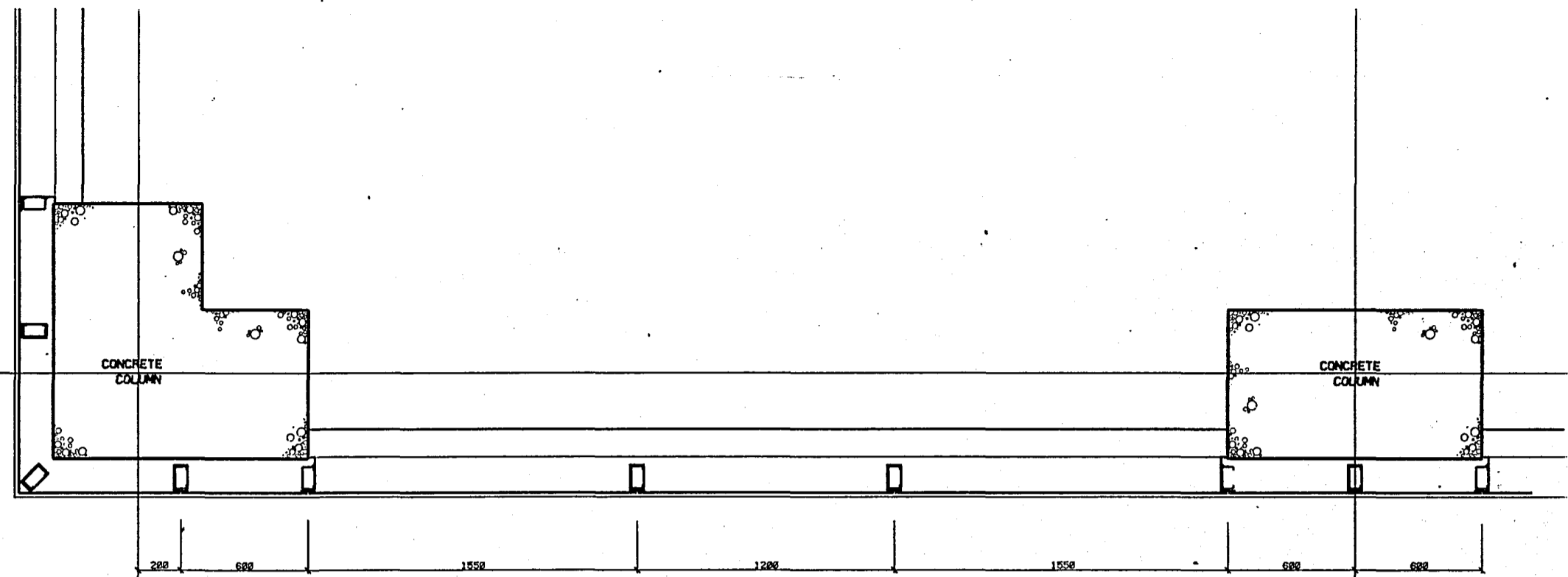
**WM** Warren & Mahoney  
 Architects Ltd  
 Christchurch, Wellington & Auckland

LANDMARK TOWER - CHRISTCHURCH

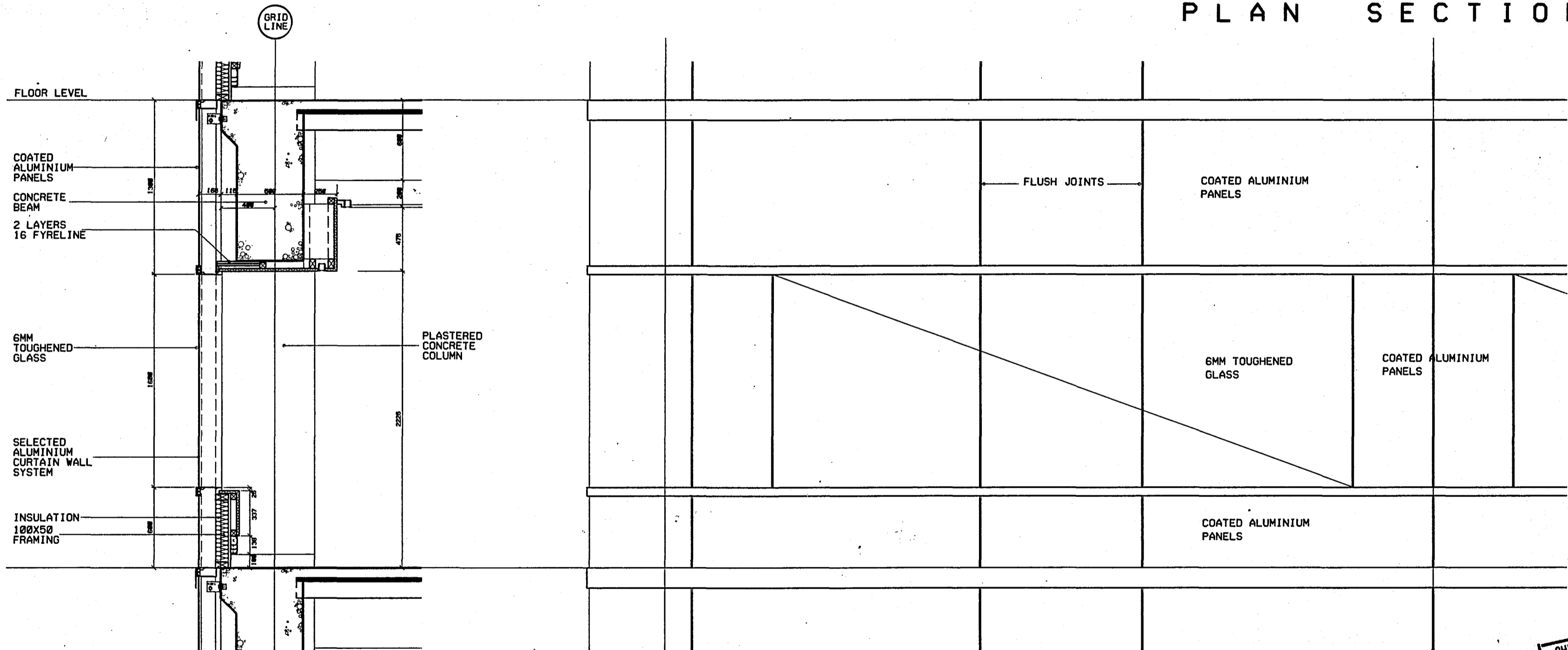
Revisions	Issued To	Client	Struct	Mech	Q.S.	Builder

EXTERIOR WALL DETAIL  
 1:10  
 The Contractor shall verify all dimensions before starting work

Scale: 1:10  
 Date: 24/02/88  
 App: C.A.U.  
**A6.1**



PLAN SECTION



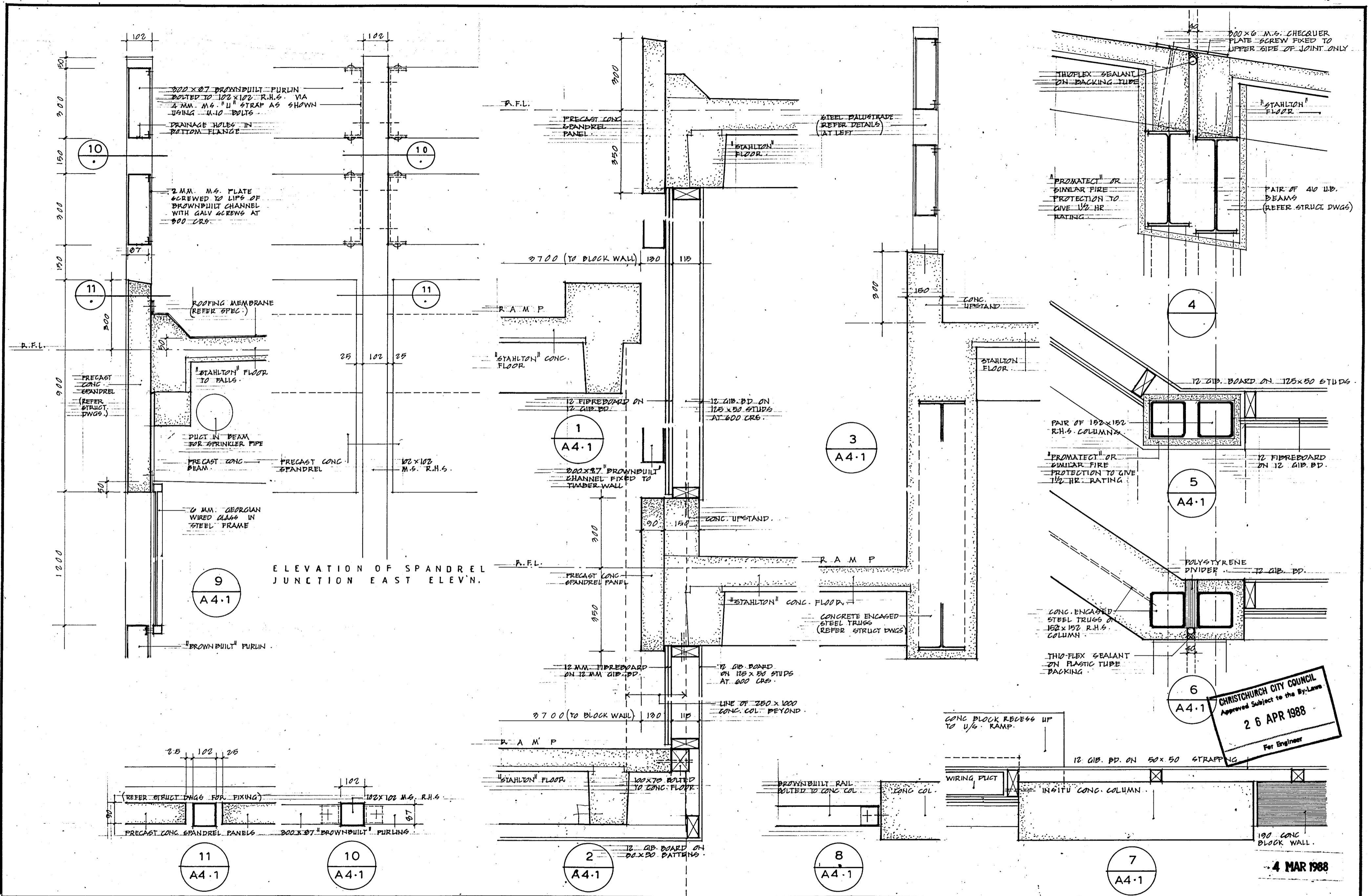
VERTICAL SECTION

ELEVATION OF TYPICAL

CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

4 MAR 1988

Revisions																				
Issued for:	Client																			
	Struct																			
	Mech																			
	O.S.																			
	Builder																			



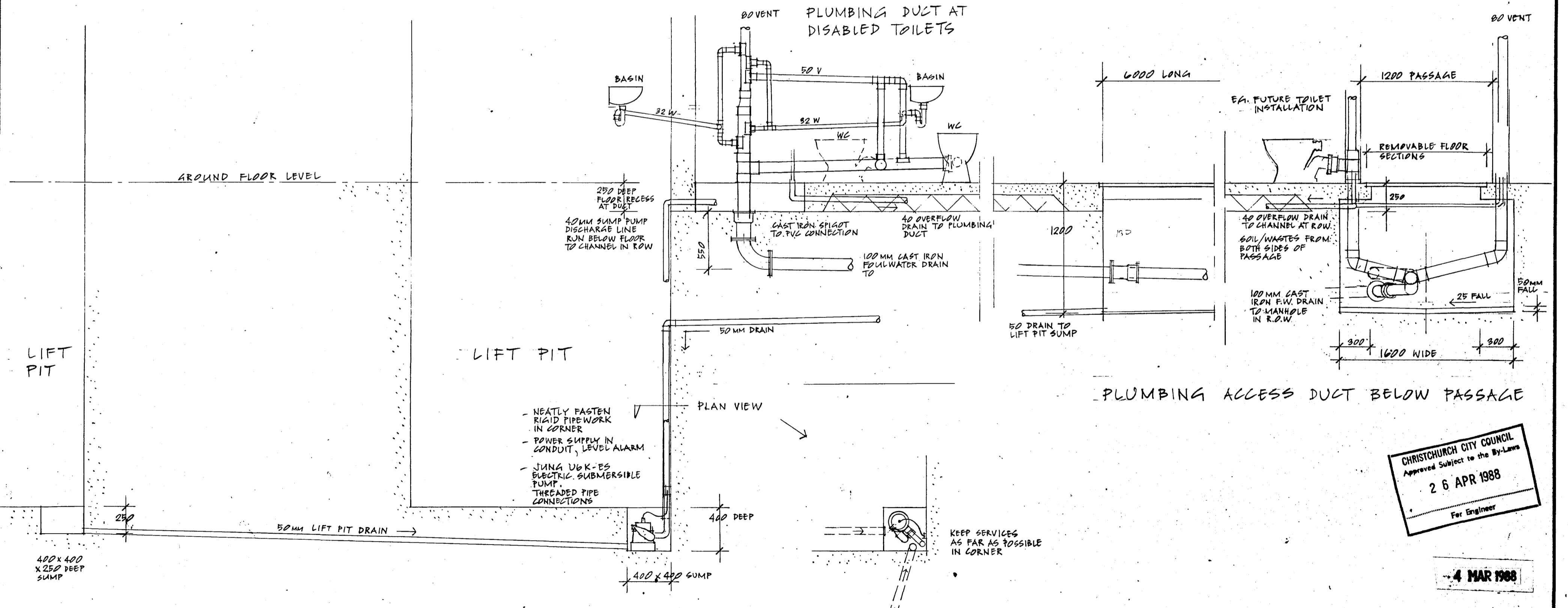
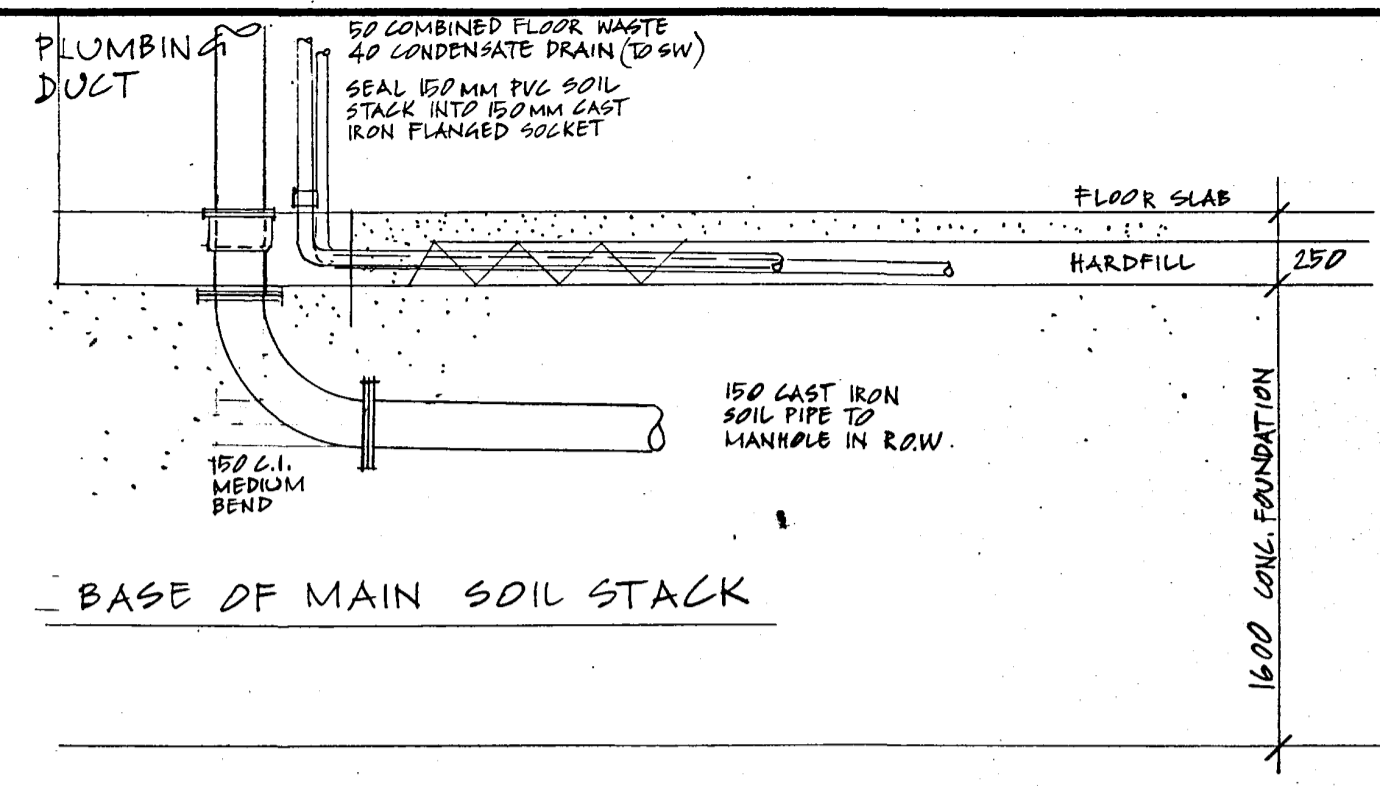
ELEVATION OF SPANDREL JUNCTION EAST ELEV'N.

CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

4 MAR 1988

Revisions					
Issued to:	Client	Struct	Mech	O.S.	Builder

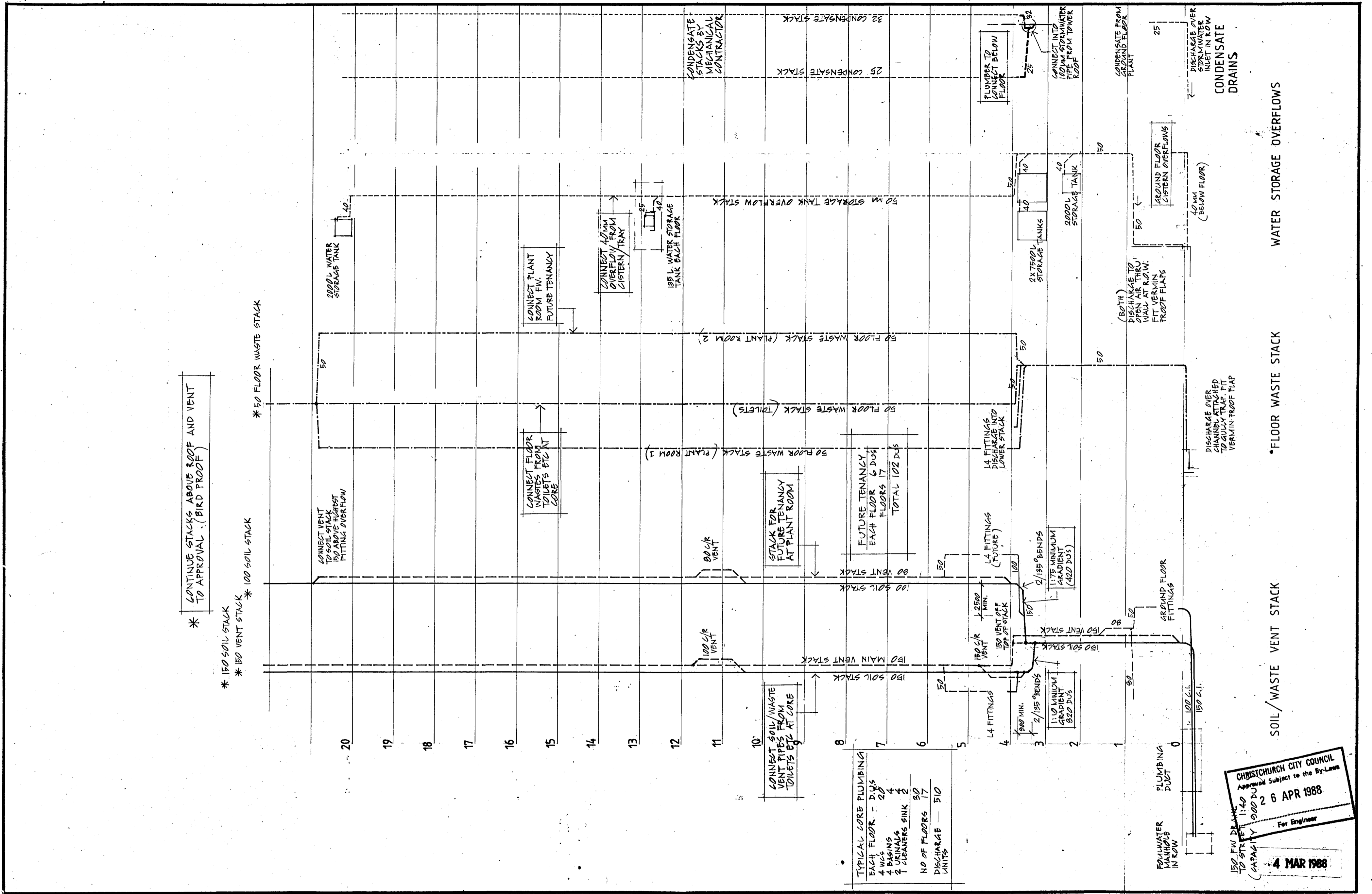
Scale	1:10
File No	A6.5
Drawn	
App	
Date	FEB 88



CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
For Engineer

4 MAR 1988

Revisions	Issued to:	Client	Struct	Mech	O.S.	Builder



\* CONTINUE STACKS ABOVE ROOF AND VENT TO APPROVAL (BIRD PROOF)

\* 150 SOIL STACK  
\* 150 VENT STACK \* 100 SOIL STACK  
\* 50 FLOOR WASTE STACK

TYPICAL CORE PLUMBING

EACH FLOOR - DWs	20
4 WCs	4
4 BASINS	4
2 URINALS	2
1 CLEANERS SINK	1
NO OF FLOORS	20
DISCHARGE UNITS	510

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
2 6 APR 1988  
Per Engineer  
4 MAR 1988

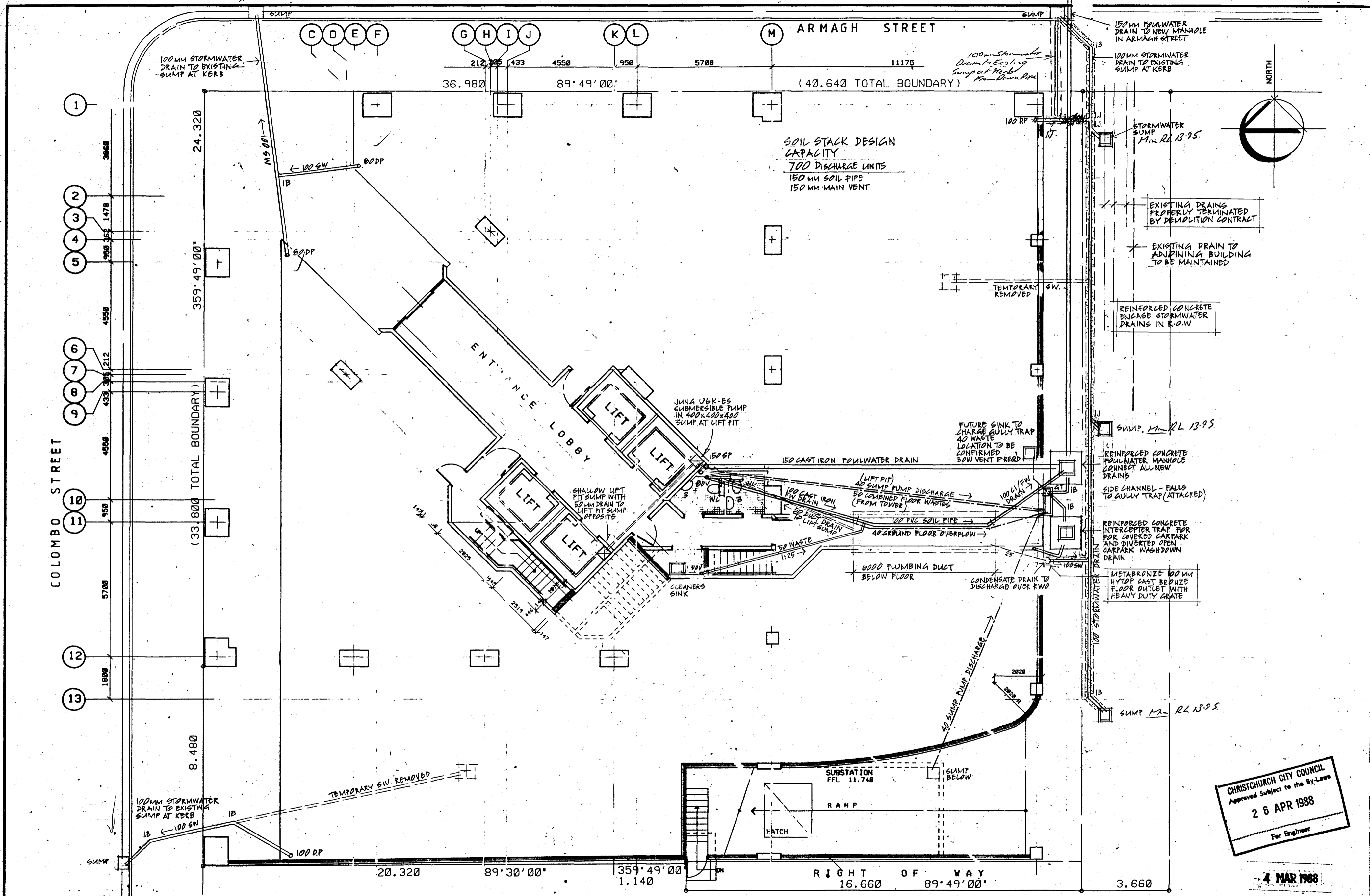
Warren & Mahoney  
Architects Ltd  
Christchurch, Wellington & Auckland

LANDMARK TOWER - CHRISTCHURCH

Revisions	Issued to:
	Client
	Struct
	Mech
	O.S.
	Builder

SCHMATIC PLUMBING  
STACKS  
The Contractor shall verify all dimensions before starting work.

Scales: N.A.  
File: 15/16  
Dwg No: A74  
Date: 19.2.88



**SOIL STACK DESIGN CAPACITY**  
 700 DISCHARGE UNITS  
 150 MM SOIL PIPE  
 150 MM MAIN VENT

CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

4 MAR 1988

**Warren & Mahoney Architects Ltd**  
 Christchurch, Wellington & Auckland

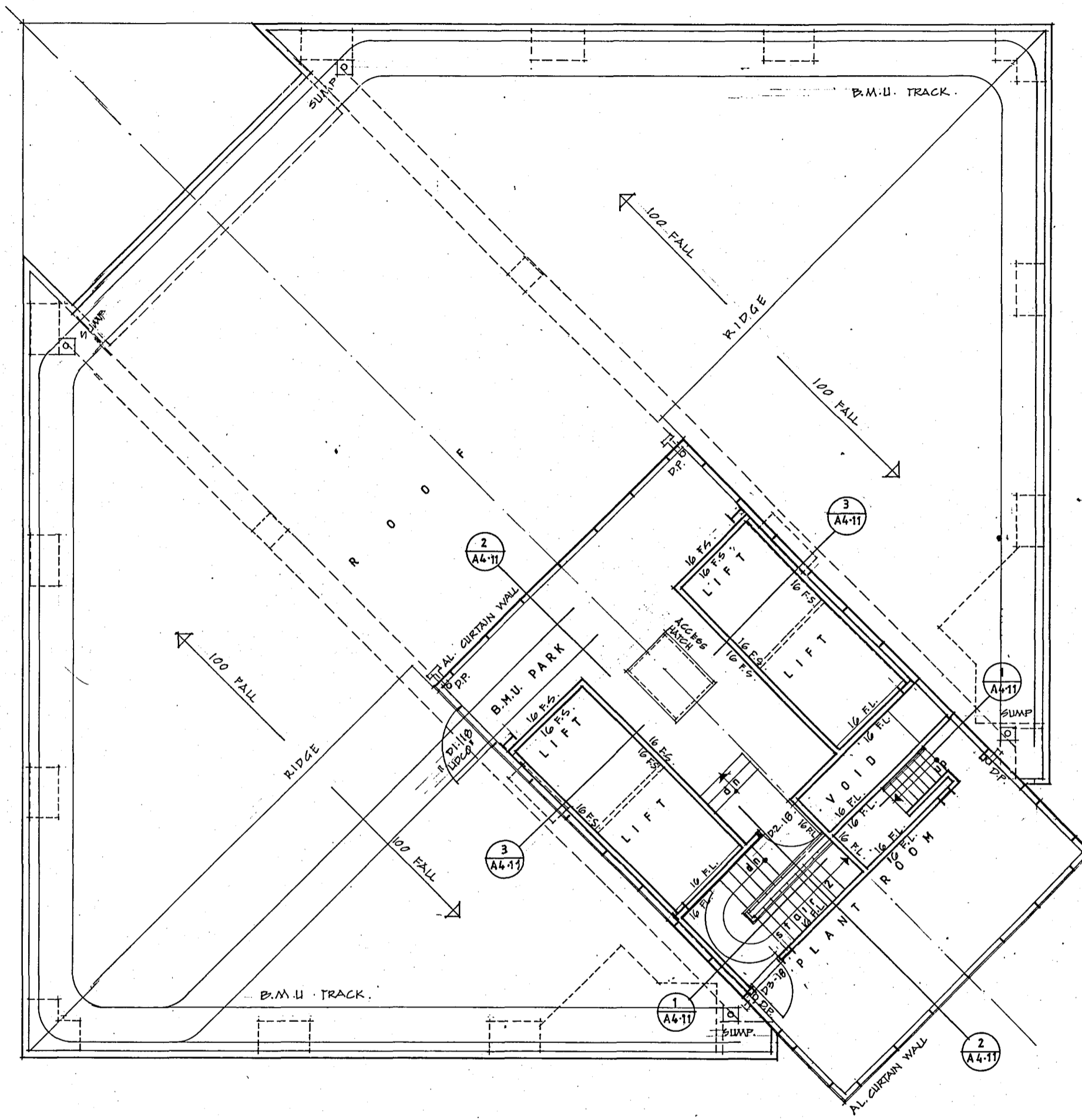
**LANDMARK TOWER - CHRISTCHURCH**

Revisions	Client	Struct	Mech	D.S.	Builder

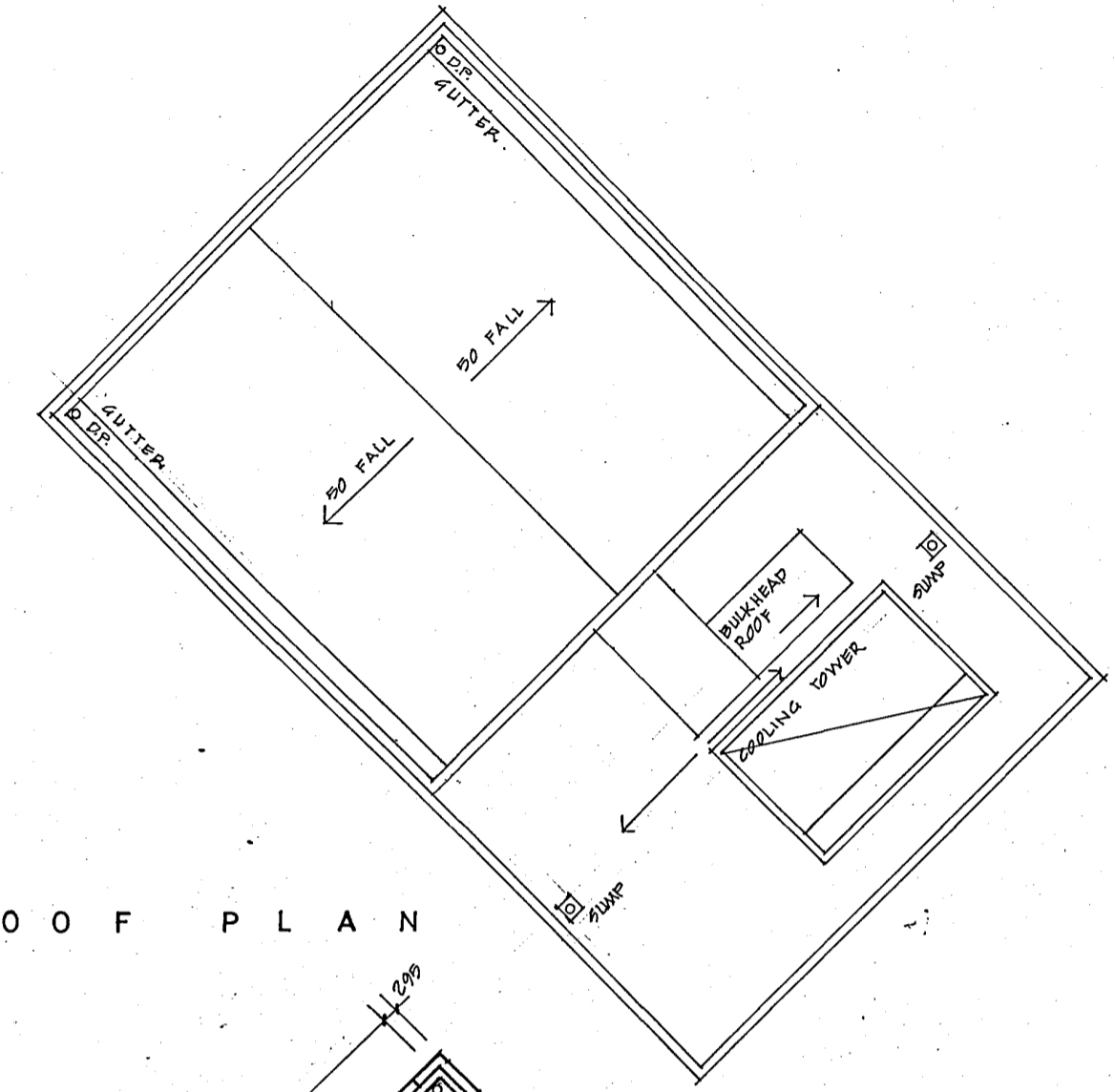
**LEVEL 0 PLAN DRAINAGE**

Scale: 1:100  
 Date: 26 APR 88  
 Drawn: CAJ/BS  
 App: JZ

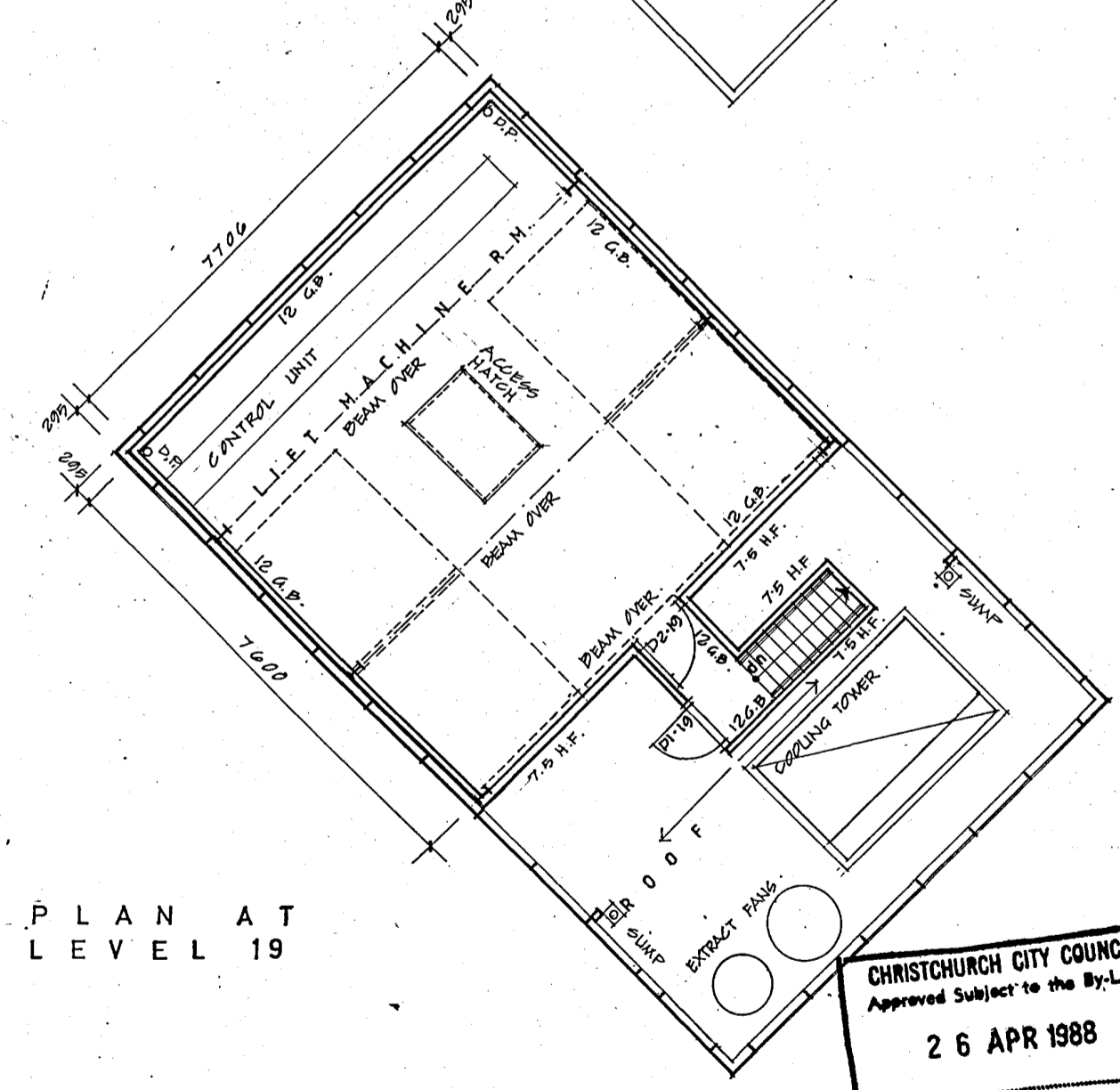
File: 18 18  
 Draw No: A7.5  
 Date: 26 APR 88



P L A N A T L E V E L 18



R O O F P L A N



P L A N A T L E V E L 19

CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

20 APR 1988

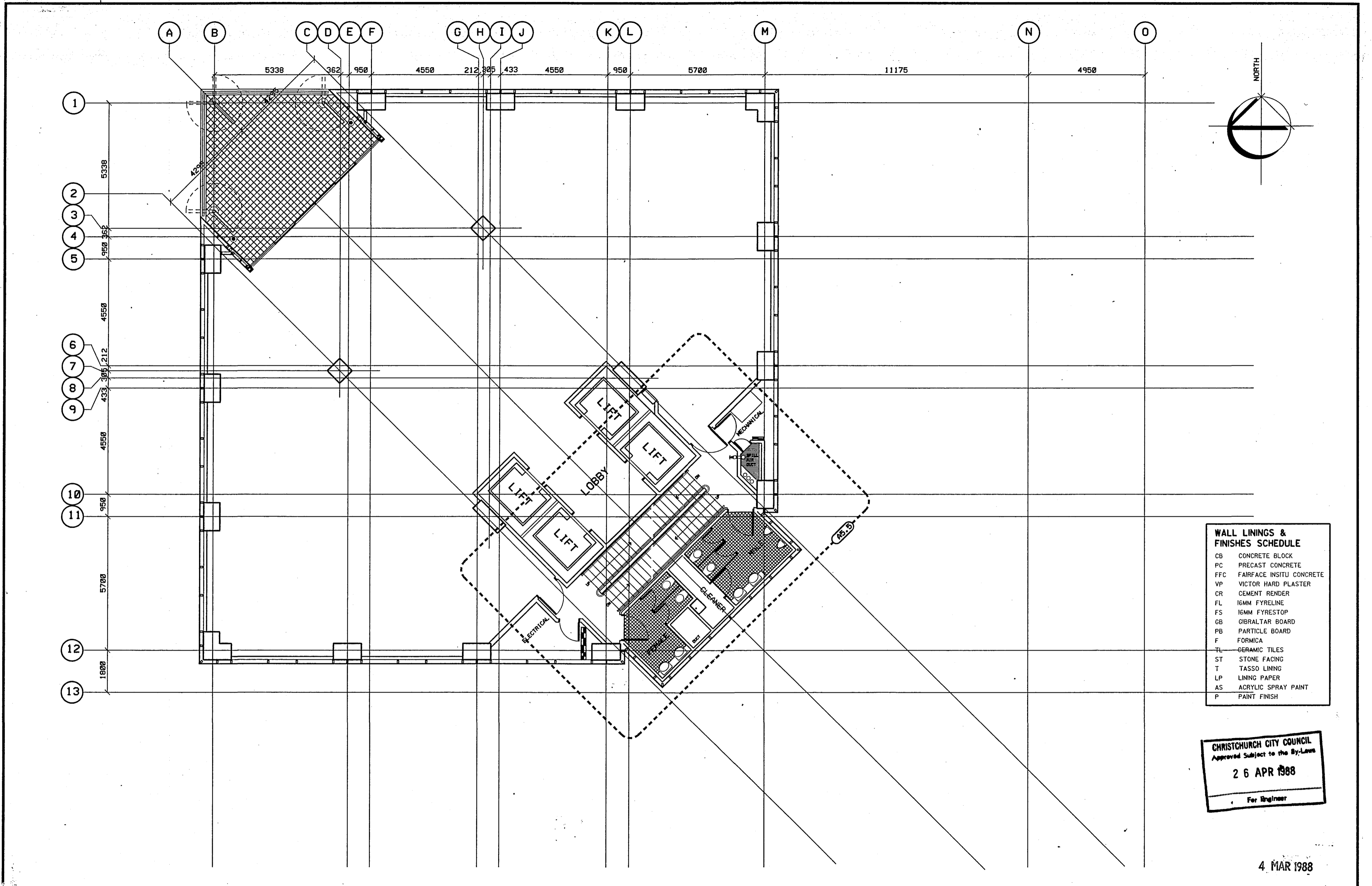
Revisions	Issued to:	Client	Struct	Mech	O.S.	Builder
A 10-4-88 SECTION REFERENCED ALTERED FROM A4-7						

Client	
Struct	
Mech	
O.S.	
Builder	

LEVELS 18 & 19 PLANS									
0	1	2	3	4	5	6	7	8	9
The Contractor shall verify all dimensions before starting work.									

Scale	1:100
File No	A1-10
Dwg No	
App	
Date	





**WALL LININGS & FINISHES SCHEDULE**

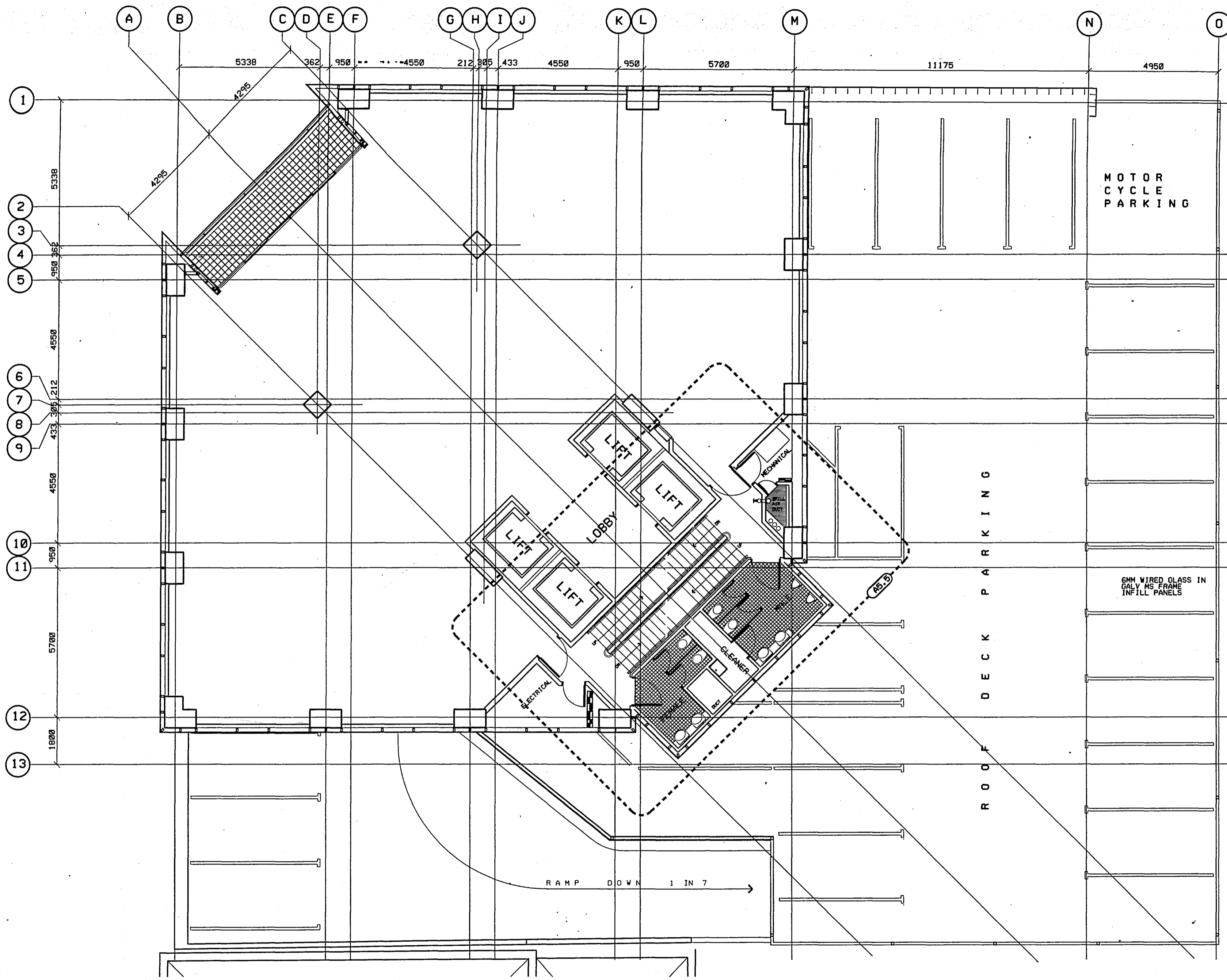
CB	CONCRETE BLOCK
PC	PRECAST CONCRETE
FFC	FAIRFACE INSITU CONCRETE
VP	VICTOR HARD PLASTER
CR	CEMENT RENDER
FL	16MM FYRELINE
FS	16MM FYRESTOP
GB	GIBALTAR BOARD
PB	PARTICLE BOARD
F	FORMICA
TL	CERAMIC TILES
ST	STONE FACING
T	TASSO LINING
LP	LINING PAPER
AS	ACRYLIC SPRAY PAINT
P	PAINT FINISH

**CHRISTCHURCH CITY COUNCIL**  
 Approved Subject to the By-Laws  
**26 APR 1988**  
 For Engineer

4 MAR 1988

Revisions	Issued To:	Client	Struct	Mech	E.S.	Builder

Client	
Struct	
Mech	
E.S.	
Builder	



**WALL LININGS & FINISHES SCHEDULE**

CB	CONCRETE BLOCK
PC	PRECAST CONCRETE
FFC	FAIRFACE INSITU CONCRETE
VP	VICTOR HARD PLASTER
CR	CEMENT RENDER
FL	16MM FYRELIN
FS	16MM FYRESTOP
GB	GIBALTAR BOARD
PB	PARTICLE BOARD
F	FORMICA
TL	CERAMIC TILES
ST	STONE FACING
T	TASSO LINING
LP	LINING PAPER
AS	ACRYLIC SPRAY PAINT
P	PAINT FINISH

**CHRISTCHURCH CITY COUNCIL**  
 Approved Subject to the By-Laws  
**26 APR 1988**  
 For Engineer

4 MAR 1988  
 GROSS AREA - 591M  
 NETT AREA - 489.5M  
 LETTABLE AREA - 445M

**Warren & Mahoney**  
 Architects Ltd  
 Christchurch, Wellington & Auckland

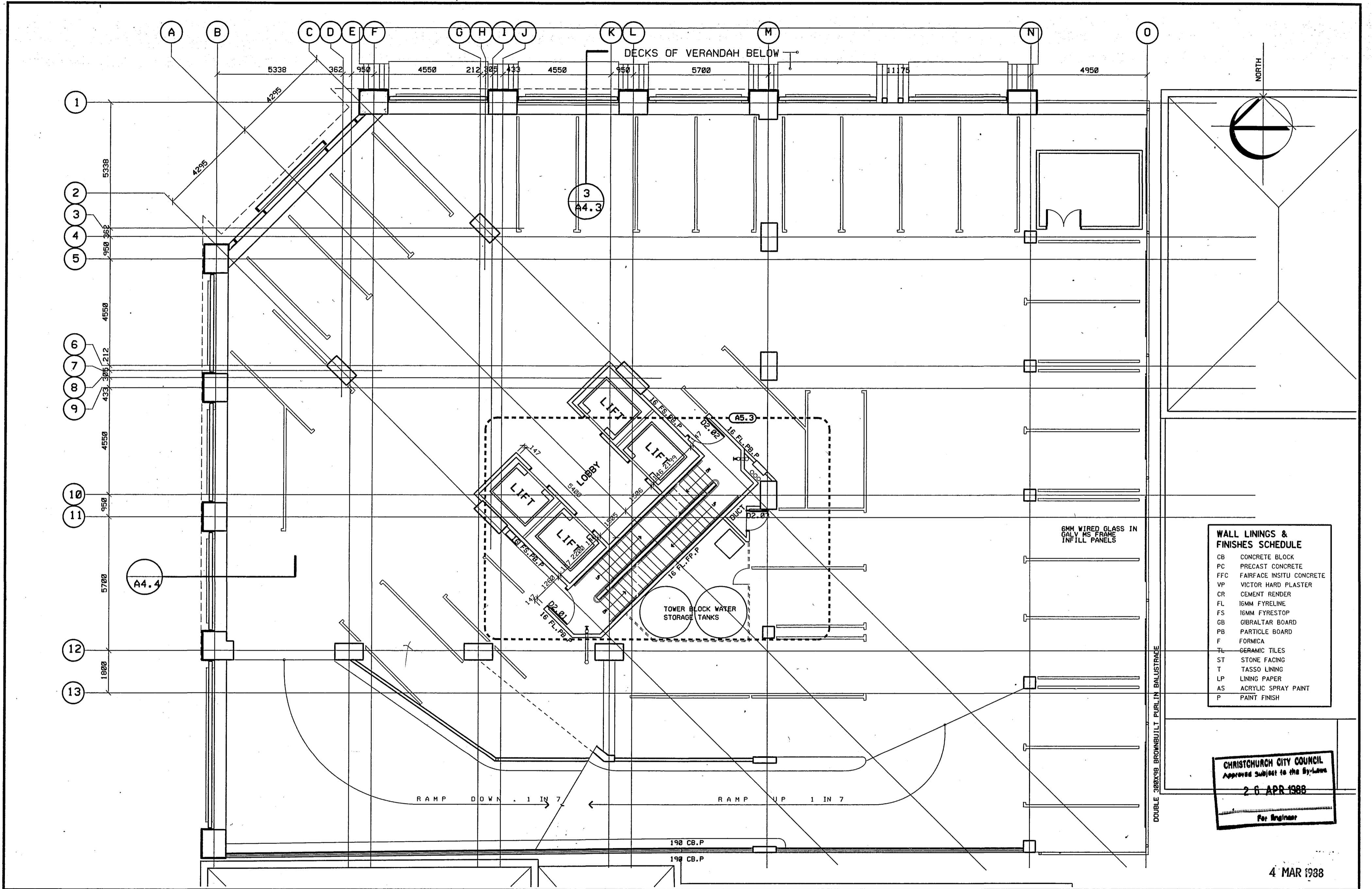
**LANDMARK TOWER - CHRISTCHURCH**

Client	
Struct	
Mech	
O.S.	
Builder	

Client	
Struct	
Mech	
O.S.	
Builder	

**LEVEL 4 PLAN**  
 Scale: 1:100  
 The Contractor shall verify all dimensions before starting work.

File 1816  
 Dwg No. **A1.6**  
 Date 10/02/88



**WALL LININGS & FINISHES SCHEDULE**

CB	CONCRETE BLOCK
PC	PRECAST CONCRETE
FFC	FAIRFACE INSITU CONCRETE
VP	VICTOR HARD PLASTER
CR	CEMENT RENDER
FL	16MM FYRELINE
FS	16MM FYRESTOP
GB	GIBALTAR BOARD
PB	PARTICLE BOARD
F	FORMICA
TL	CERAMIC TILES
ST	STONE FACING
T	TASSO LINING
LP	LINING PAPER
AS	ACRYLIC SPRAY PAINT
P	PAINT FINISH

**CHRISTCHURCH CITY COUNCIL**  
 Approved Subject to the By-Laws  
**26 APR 1988**  
 For Engineer

4 MAR 1988

**Warren & Mahoney Architects Ltd**  
 Christchurch, Wellington & Auckland

**LANDMARK TOWER - CHRISTCHURCH**

Revisions:									
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Issued to:	Client
	Struct
	Mech
	O.S.
	Builder

**LEVEL 2 PLAN**

0	1	2	3	4	5	6
---	---	---	---	---	---	---

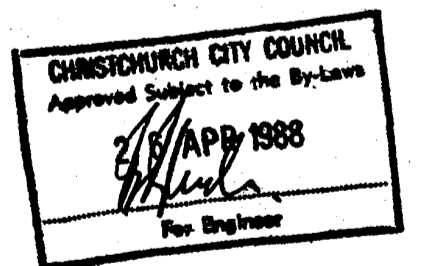
The Contractor shall verify all dimensions before starting work.

Scale:	1:100	File No.:	18 16
Dwg No.:	<b>A1.4</b>	Dwn. C.A.D.:	
Date:	24/02/88	App:	

# ROBERT JONES HOUSE

## FOR PAYNTER DEVELOPMENTS

 Warren & Mahoney  
Architects  
Christchurch & Wellington



### ELECTRICAL SERVICES

**PEDERSEN & PARTNERS LTD**  
CONSULTING ELECTRICAL ENGINEERS  
AUCKLAND CHRISTCHURCH DUNEDIN

NOTES

DATE	REVISION
------	----------



**Warren & Mahoney**  
Architects  
Christchurch & Wellington

**ROBERT JONES HOUSE**

FOR PAYTER DEVELOPMENTS LTD

DESIGN PROPOSAL DRAWING

DRAWING  
ELECTRICAL SERVICES  
Drawing list & nomenclature






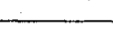

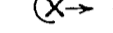



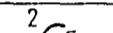


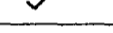

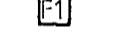


**PEDERSEN & PARTNERS LTD**  
CONSULTING ELECTRICAL ENGINEERS  
AUCKLAND CHRISTCHURCH DUNEDIN

SCALES	SHEET NO.
N.T.S.	E1.1

DRAWN	JOB 2418
DATE FEBRUARY 1988	SET 3 MAR 1988

ELECTRICAL DRAWING LIST												
Dwg No	Scale	Title	A	B	C	D	E	F	G	H	I	J
E1.1	N.T.S.	DRAWING LIST & NOMENCLATURE										
E1.2	N.T.S.	CABLE & LIGHTING SCHEDULES										
E2.1	N.T.S.	MAIN SCHEMATIC										
E2.2	1:20	MAIN SWITCHBOARD LAYOUT										
E2.3	1:20	D.B. LAYOUTS & DETAILS										
E2.4	N.T.S.	D.B. SCHEMATICS										
E2.5	N.T.S.	STAIRWAY LIGHTING CONTROL SCHEMATICS										
E3.1	1:100	LEVEL 0 LAYOUT										
E3.2	1:100	LEVEL 1 LAYOUT										
E3.3	1:100	LEVEL 2 LAYOUT										
E3.4	1:100	LEVEL 3 LAYOUT										
E3.5	1:100	LEVEL 4, 9 - 19 LAYOUT										
E3.6	1:100	LEVELS 5 - 8 LAYOUT										
E4.1	1:50	11kV SUBSTATION LAYOUT & DETAILS										

NOMENCLATURE	
	MAIN SWITCHBOARD
	DISTRIBUTION BOARD
	CONTROL PANEL. FUNCTION AS INDICATED.
	FLUORESCENT TUBE LIGHTING FITTING
	CEILING MOUNTED / DOWNLIGHT LIGHTING FITTING
	WALL / BRACKET MOUNTED LIGHTING FITTING
	SPOT / FLOOD LIGHTING FITTING
	600 x 600 RECESSED FLUORESCENT LIGHTING FITTING
	SINGLE SWITCHED SOCKET OUTLET AS PDL SERIES 500 OR EQUAL MOUNTED 350mm ABOVE F.F.L.
	SINGLE SWITCHED SOCKET OUTLET AS WILCO PSC110 PROTECTED SERIES OR EQUAL MOUNTED 350mm ABOVE F.F.L.
	DOUBLE SWITCHED SOCKET OUTLET AS PDL SERIES 500 OR EQUAL MOUNTED 350mm ABOVE F.F.L.
	ONE WAY LIGHT SWITCH AS PDL SERIES 500 OR EQUAL MOUNTED 1300mm ABOVE F.F.L.
	TWO WAY LIGHT SWITCH AS PDL SERIES 500 OR EQUAL MOUNTED 1300mm ABOVE F.F.L.
	PUSH BUTTON AS PDL 500 SERIES OR EQUAL MOUNTED 1300mm ABOVE F.F.L.
	AUTOMATIC DOORS
	HOT WATER CYLINDER
	AUTOMATIC HAND DRYER

CHRISTCHURCH CITY COUNCIL  
Approved under the Resource Management Act 1976  
*[Signature]*  
1988

*Sheet is for index in folder.*

CABLE SCHEDULE	
No.	Description
1	7 x 1 Core Copper 500 sq.mm XLPE/PVC
2	7 x 1 Core Copper 500 sq.mm XLPE/PVC
3	4 x 1 Core Copper 150 sq.mm XLPE/PVC
4	25 x 3mm Solid Copper Bar : Rising Silent Earth
5	4 x 1 Core Copper 150 sq.mm XLPE/PVC
6	4 x 1 Core Copper 150 sq.mm XLPE/PVC
7	4 x 1 Core Copper 185 sq.mm XLPE/PVC
8	4 x 1 Core Copper 240 sq.mm XLPE/PVC
9	1 x 3 Core Copper 50 sq.mm Neutral Screened + 25 sq.mm E.C.C.
10	4 x 1 Core Copper 150 sq.mm XLPE/PVC + 70 sq.mm E.C.C.
11	4 x 1 Core Copper 70 sq.mm XLPE/PVC + 35 sq.mm E.C.C.
12	1 x 3 Core Copper 50 sq.mm Neutral Screened + 25 sq.mm E.C.C.
13	1 x 3 Core Copper 25 sq.mm Neutral Screened + 10 sq.mm E.C.C.
14	4 x 1 Core Copper 300 sq.mm XLPE/PVC + 70 sq.mm E.C.C.
15	4 x 1 Core Copper 70 sq.mm XLPE/PVC
16	70 sq.mm Green Earth Wire
17	
18	
19	

SCHEDULE OF LIGHTING FITTINGS						
Type	Watts	Make	Cat. No.	Description	Mounting	Remarks
EXA	EMERGENCY LIGHTING FITTING, RECESSED, c/w 'EXIT' PRINTED ON VIEWING FACE					
EX	EMERGENCY LIGHTING FITTING, c/w 'EXIT' PRINTED ON VIEWING FACE					
A	28	THORN	2D USO 28	BULKHEAD	SURFACE	c/w 1 No. 28W 3500K LAMP & PRISMATIC DIFFUSER
B	150	PHILIPS	MNF 100/100	FLOODLIGHT	SURFACE	c/w 1 No. 150W MHN-TD 150W METAL HALIDE LAMP
C	140	REMIRON	AIR HANDLING	600 x 600 MODULAR TYPE	RECESSED	c/w 3 No. 36W PL LAMPS & C12 DIFFUSER
D	13	PHILIPS	DOT 303	DOWNLIGHT	RECESSED	c/w 1 No. 13W PLC LAMP & Z311 CEILING RING
F	28	THORN	2D 28 FV	BULKHEAD	SURFACE	c/w 1 No. 28W 3500K LAMP
G	11	PHILIPS	FCC 100/20	WALL LIGHT	SURFACE	c/w 1 No. 11W PL LAMP
H	100	THORN	PPE240	FLUORESCENT	SURFACE	c/w 2 No. 40W COLOUR 33 TUBES & PRISMATIC DIFFUSER
J						
K	150	THORN	LJ258	FLUORESCENT	SURFACE	c/w 2 No. 58W COLOUR 33 TUBES & FIBREGLASS ENCLOSURE
L						
M						
N						
P						
R						

NOTES	

DATE	REVISION




**Warren & Mahoney**  
Architects  
Christchurch & Wellington

**ROBERT JONES HOUSE**

FOR PAYNTER DEVELOPMENTS LTD

DESIGN PROPOSAL DRAWING

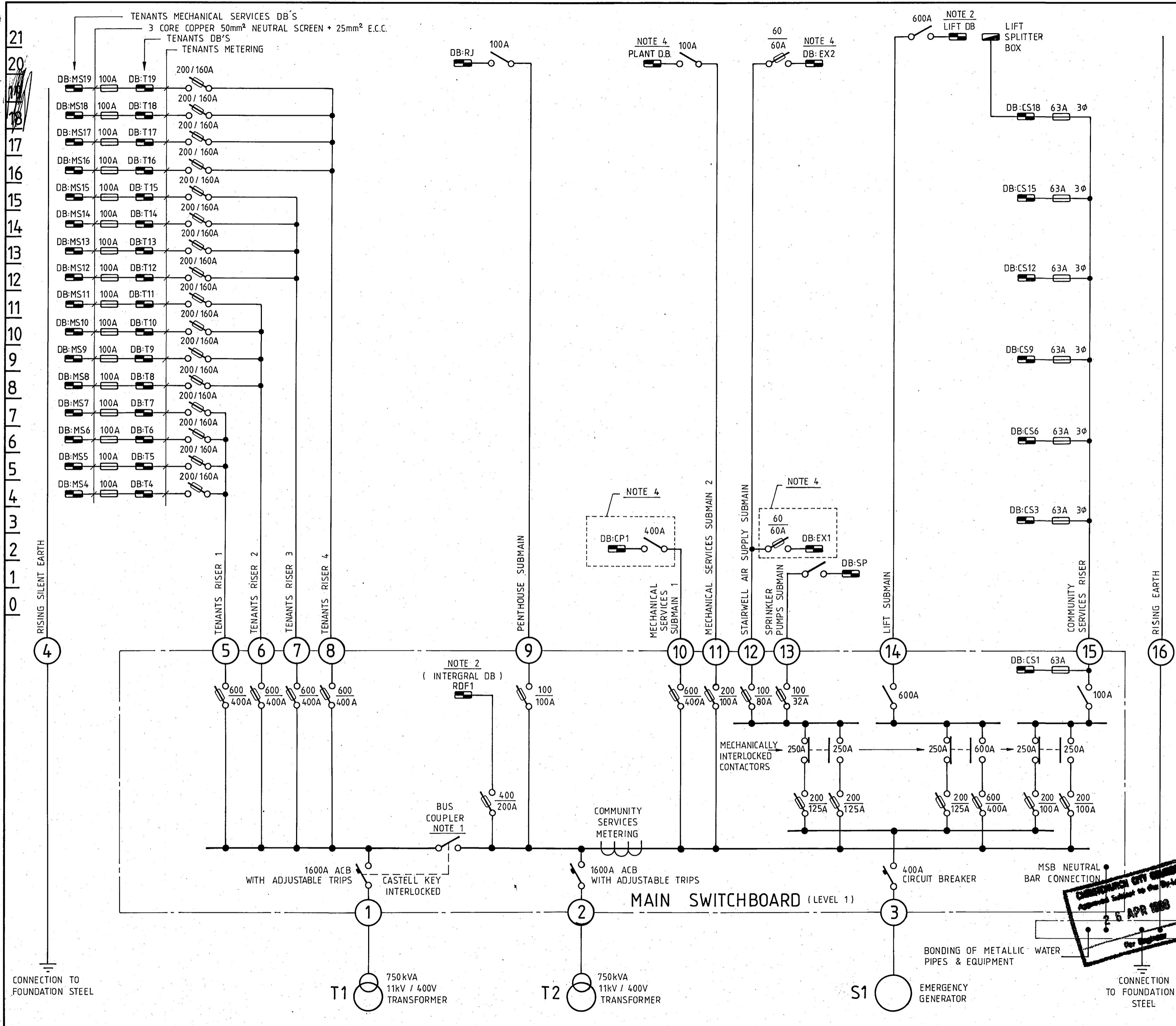
DRAWING  
ELECTRICAL SERVICES  
Cable & lighting schedules



**PEDERSEN & PARTNERS LTD**  
CONSULTING ELECTRICAL ENGINEERS  
AUCKLAND CHRISTCHURCH DUNEDIN

SCALES N.T.S.	SHEET NO. E1.2
DRAWN	JOB 2418
DATE FEBRUARY 1988	SET - 3 MAR 1988

**CONSULTING ENGINEER**  
 Approved Subject to the By-Laws  
**20 APR 1988**  
 For Signature



- NOTES**
1. 1600A ACB with trips removed
  2. See sheet E2.6 for DB schematics
  3. Each community services DB services its own level and also the levels immediately above and below that level.
  4. DB provided by mechanical services contractor

DATE	REVISION

**Warren & Mahoney**  
 Architects  
 Christchurch & Wellington

**ROBERT JONES HOUSE**

FOR **PAYNTER DEVELOPMENTS LTD**

**DESIGN PROPOSAL DRAWING**

DRAWING  
 ELECTRICAL SERVICES  
 Main schematic

**PEDERSEN & PARTNERS LTD**  
 CONSULTING ELECTRICAL ENGINEERS  
 AUCKLAND CHRISTCHURCH DUNEDIN

SCALES <b>N.T.S.</b>	SHEET NO. <b>E 2.1</b>
DRAWN	JOB 2418
DATE FEBRUARY 1988	SET- 3 MAR 1988

**CHRISTCHURCH CITY COUNCIL**  
 Approved under the Resource Management Act 1976  
 25 APR 1988  
 For Signature

- NOTES
1. Substation walls to have 4 hour fire resistance rating. No fire sprinklers are to be installed inside substation.
  2. 3000mm minimum vertical clearance with hoist rope fully retracted. Hoist minimum safe working load of 5.7 tonne.
  3. Allow to provide 4 No. type K lighting fittings & 2 No. type B power socket outlets for substation. Contractor to coordinate with M.E.D. on installation of these fittings.

DATE	REVISION

**Warren & Mahoney**  
Architects  
Christchurch & Wellington

# ROBERT JONES HOUSE

FOR PAYNTER DEVELOPMENTS LTD

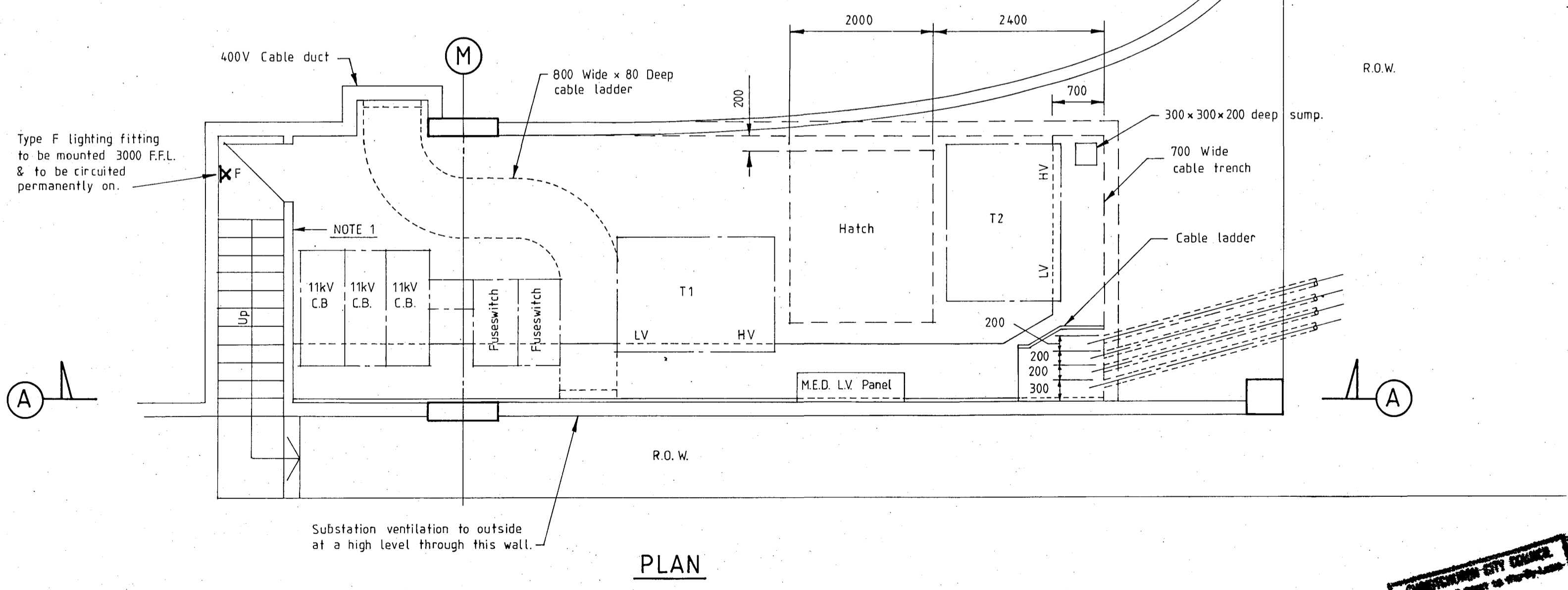
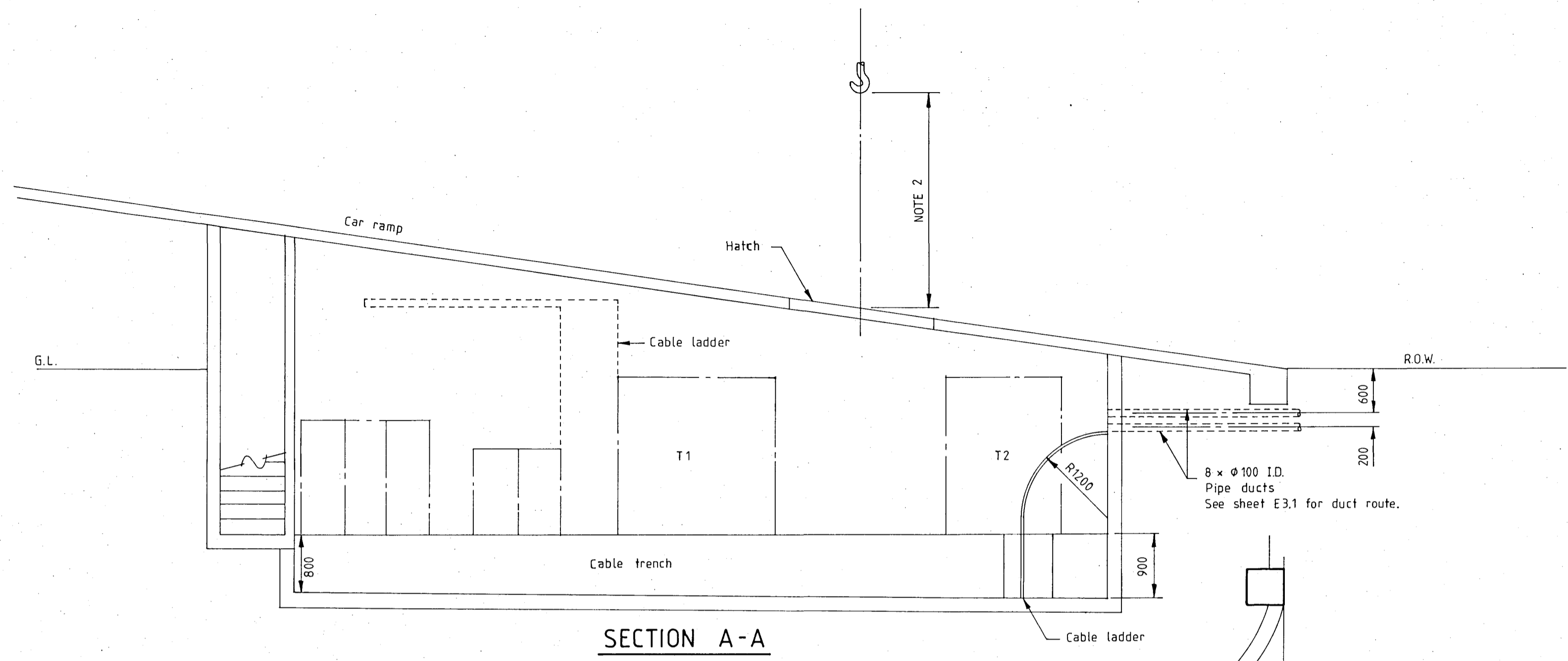
## DESIGN PROPOSAL DRAWING

DRAWING  
ELECTRICAL SERVICES  
11kV Substation & details

**PEDERSEN & PARTNERS LTD**  
CONSULTING ELECTRICAL ENGINEERS  
AUCKLAND CHRISTCHURCH DUNEDIN

SCALES 1:50	SHEET NO. E4.1
----------------	-------------------

DRAWN	JOB 2418
DATE FEBRUARY 1988	SET - 3 MAR 1988



CHRISTCHURCH CITY ENGINEER  
Approved under the Building Act  
26 APR 1988  
For Engineer



4110  
8220  
8220  
20 550

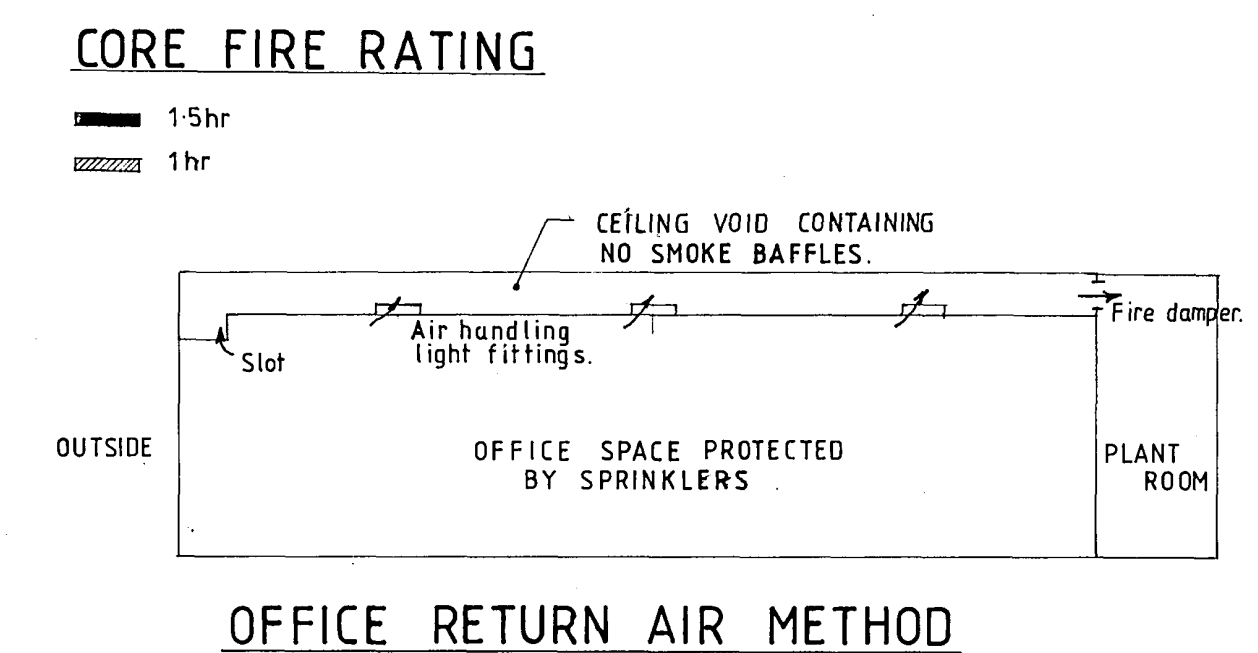
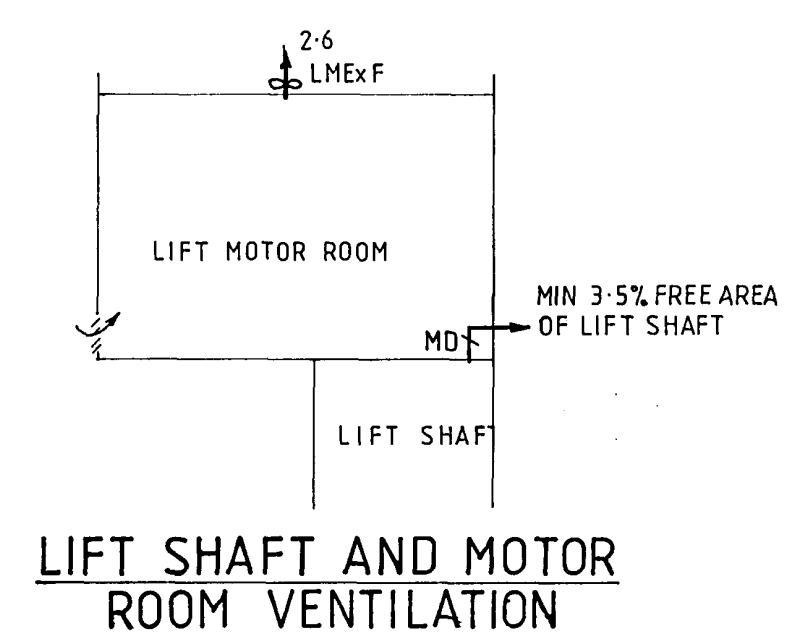
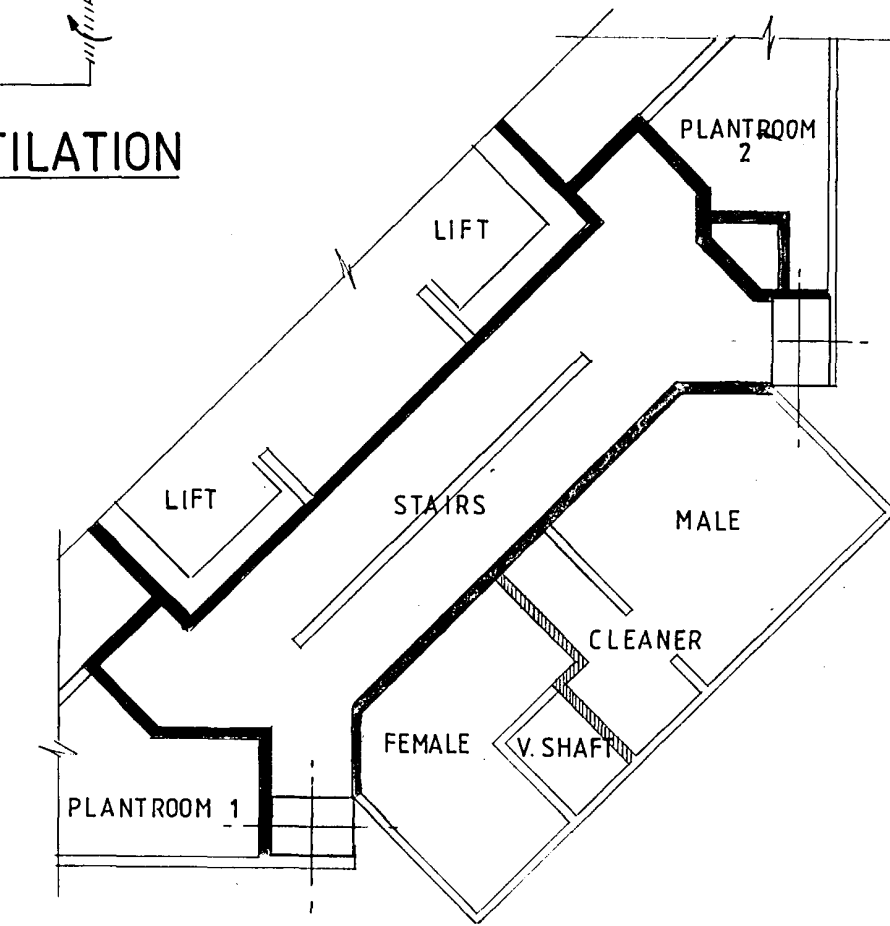
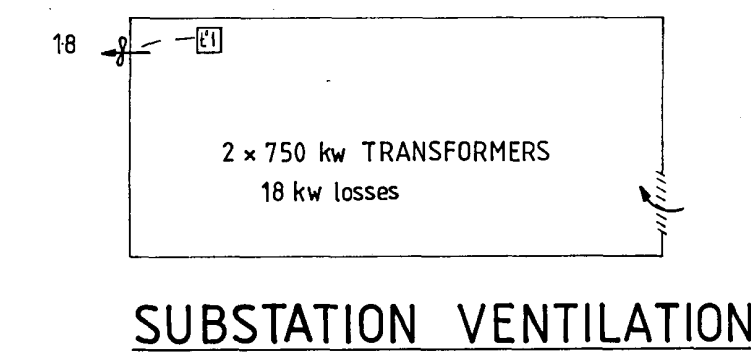
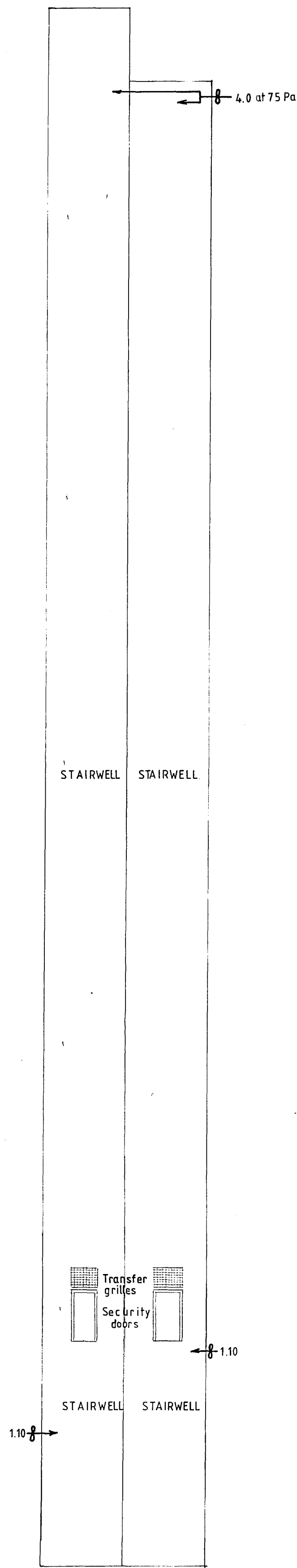
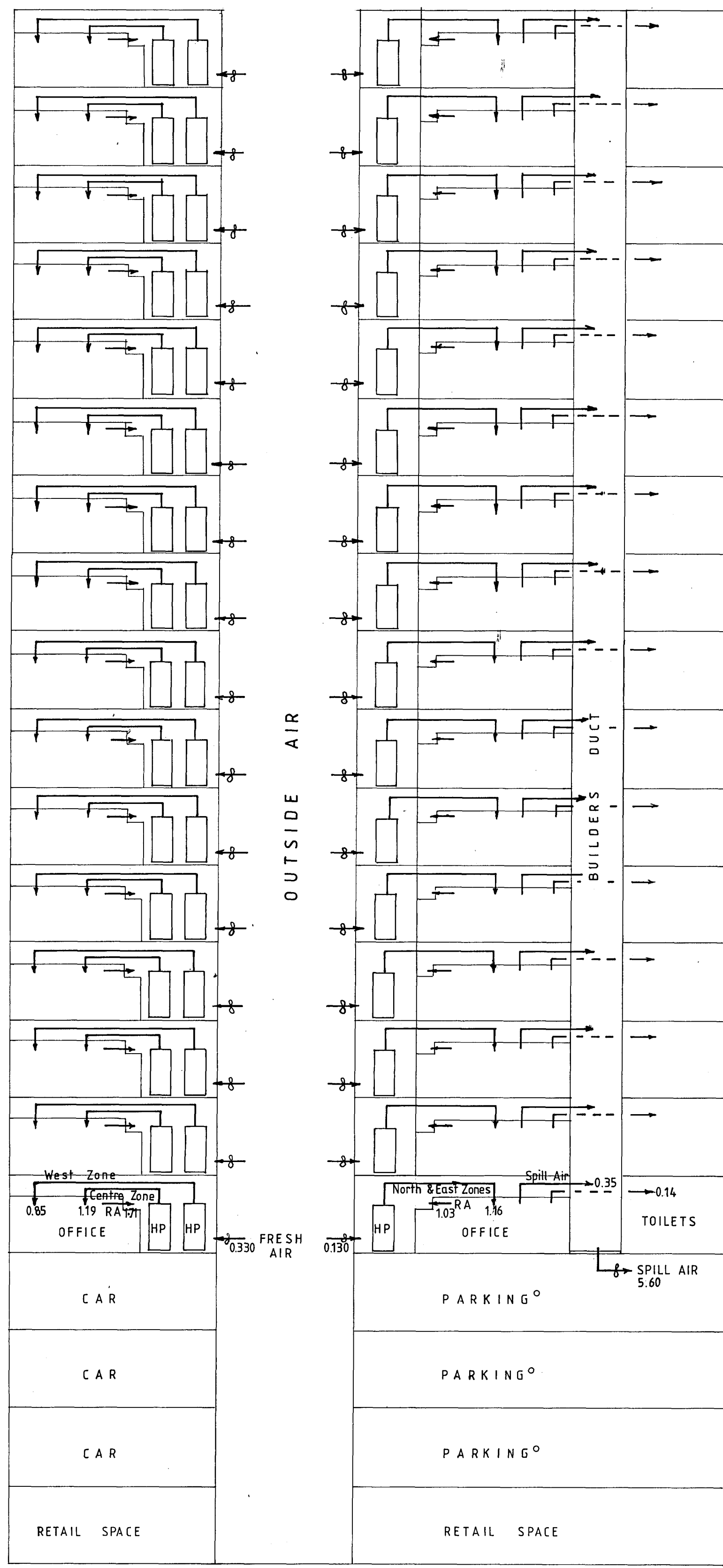
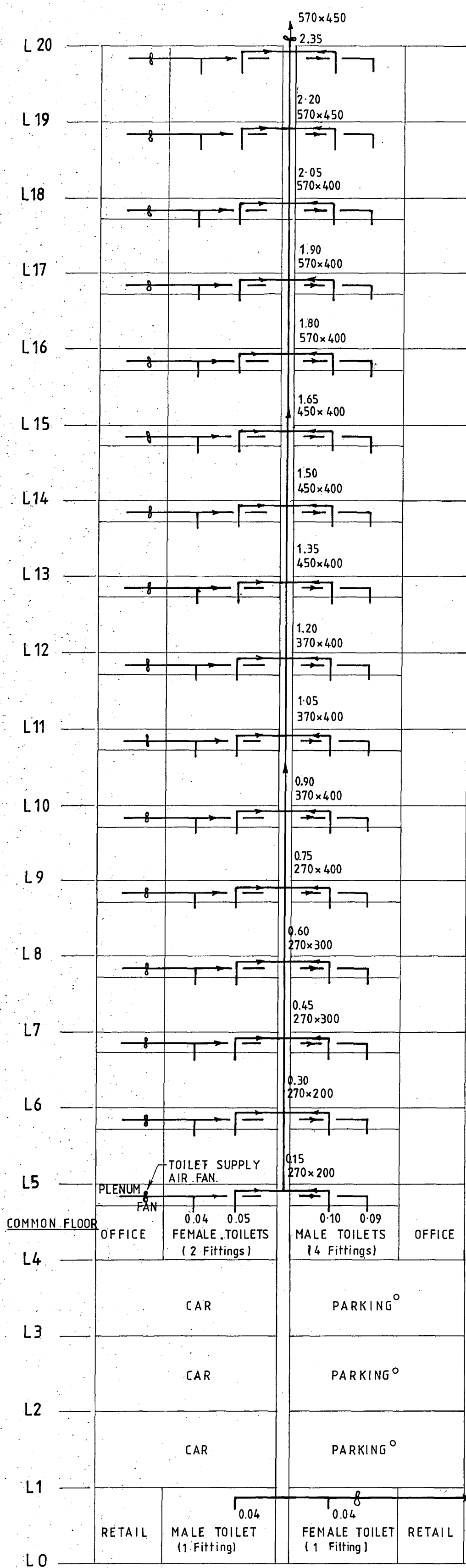
# LANDMARK TOWER

PAYNTER DEVELOPMENTS LIMITED

HEATING VENTILATION & AIR CONDITIONING SERVICES

RAY THURSTON LIMITED  
Christchurch, Auckland, Wellington.

PERMIT DRAWINGS  
ISSUED. DATE 1 MAR 1988  
CHRISTCHURCH CITY COUNCIL  
Approved subject to the By-Laws  
26 APR 1988  
For Engineer



DRAWING INDEX		
SHEET	TITLE	REVISION
M1	VENTILATION SCHEMATIC	
M2	DUCT LAYOUT LEVELS 4 & 9-19 INCL	
M3	DUCT LAYOUT LEVELS 5-8 INCL	
M4	TYPICAL FLOOR PLANTROOM DETAILS	
M5	TOILET, KITCHEN EXHAUST AND SPILL AIR DETAILS	
M6	DUCT DETAILS	
M7	LIFT MOTOR ROOM, PABX SUBSTATION, STAIRWELL VENT	
M8	CONDENSING WATER & CONDENSATE SCHEMATICS	
M9	UPPER PLANTROOM & BOILER DETAILS	
M10	WATER RETICULATION	

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
Per Engineer

REFER ALSO TO STANDARD DETAILS IN SPECIFICATION.

PERMIT DRAWINGS  
ISSUED. DATE 1 MAR 1988

RAY THURSTON Ltd  
MECHANICAL, HEATING & VENTILATING, AIR CONDITIONING,  
AND AIR POLLUTION CONTROL, CONTRACT & DESIGN ENGINEERS.  
129 RICCARTON ROAD. (UPSTAIRS) RICCARTON MALL  
CHRISTCHURCH 4. P.O. BOX 8247. PHONE 430-309

Warren & Mahoney  
Architects Ltd  
Christchurch, Wellington & Auckland

LANDMARK TOWER VICTORIA SQUARE  
PAYNTER DEVELOPMENTS LIMITED

VENTILATION SCHEMATIC

Rev	Amendment	Initials	Date
SCALE	VERIFY ALL DIMENSIONS BEFORE COMMENCING WORK	DRAWING No	
N.T.S.		857	
DATE	DRAWN	APPROVED	SHEET No
19 JAN 1987	B.R.C.	RC 13/80	M1
			OF SHEETS

1:50

**NOTES**

- 1 THE PERIMETER OF THE BUILDING IS SERVED BY CONSTANT VOLUME PAIR OF LINEAR DIFFUSERS (SEE M.) THE OUTER DIFFUSER IS 800 MM LONG FLANGED, THE INNER IS FITTED BETWEEN RETURN AIR EXTRUSION. SEE CROSS SECT M.
- 2 AIR HANDLING LIGHT FITTINGS ARE USED
- 3 CENTRE ZONE DIFFUSERS ARE VARIABLE VOLUME DOWN TO 70%
- 4 VOLUMES SHOWN ARE 100% VALUES
- 5 VAV CONTROLLERS TO BE SITUATED IN PLANTROOMS

**DIFFUSERS**

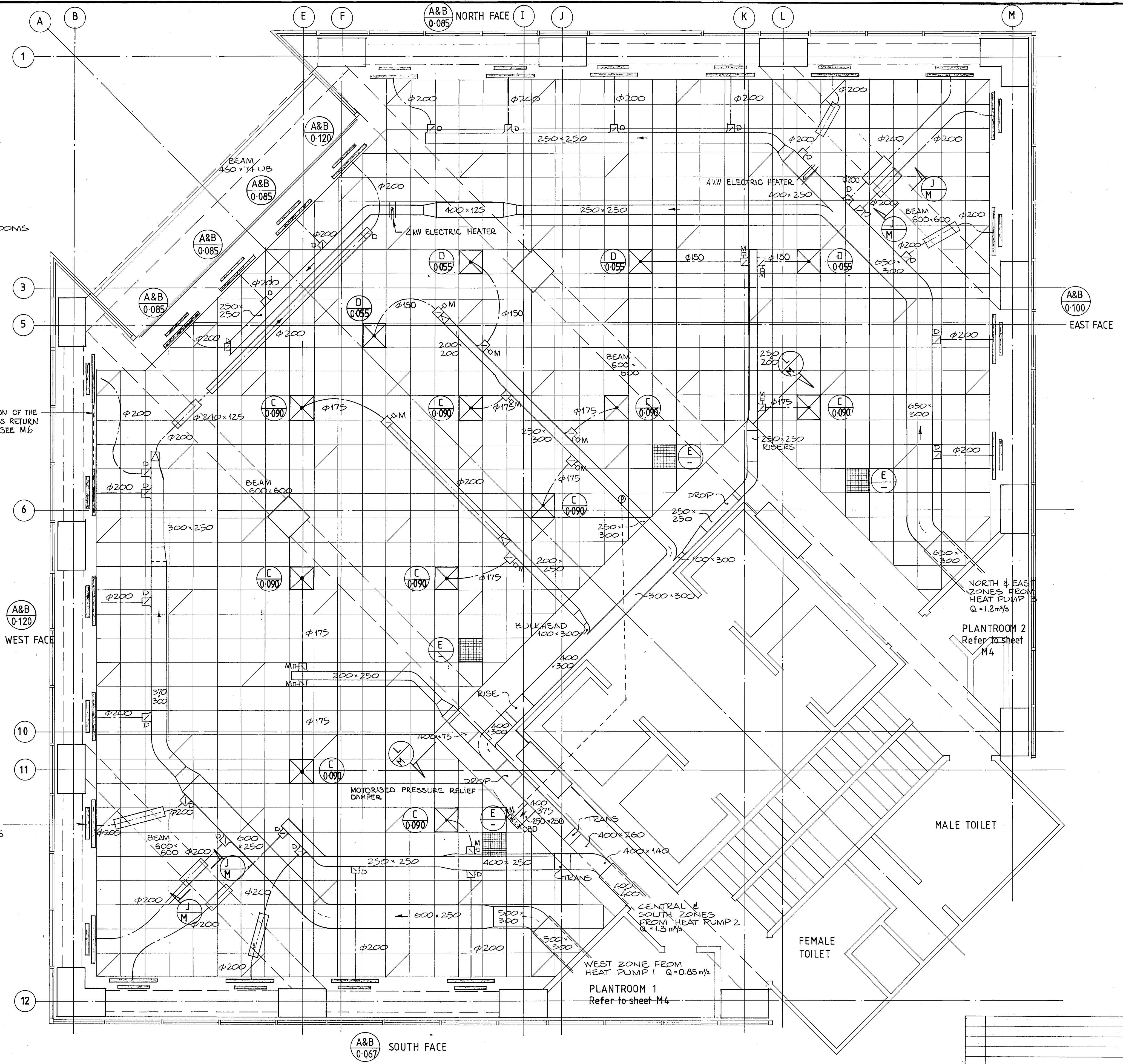
AS MANUFACTURED BY HOLYOAKE INDUSTRIES LTD  
 A CSD 25 x 1 SLOT IN CONTINUOUS LENGTHS  
 B CSD 25 x 1 SLOT IN CONTINUOUS LENGTHS  
 C\* CSRL 300 x 300  $\phi$ 175 NECK LTD REPLACE 600 x 600  
 D\* CSRL 300 x 300  $\phi$ 150 NECK LTD CONCEALED TILE  
 \* COLOUR TO ARCHITECTS APPROVAL

**LEGEND**

— ACUSTIC FLEXIBLE  
 — BULLOCK SPUN FITTING WITH MANUAL DAMPER  
 — BULLOCK SPUN FITTING WITH MOTORIZED DAMPER

THIS SECTION OF THE PERIMETER IS RETURN AIR SLOT. SEE M6

HEATING/COOLING CHANGEOVER MECHANISM TO LINEARS SEE M6



CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

PERMIT DRAWINGS  
 ISSUED. DATE 1 MAR 1988

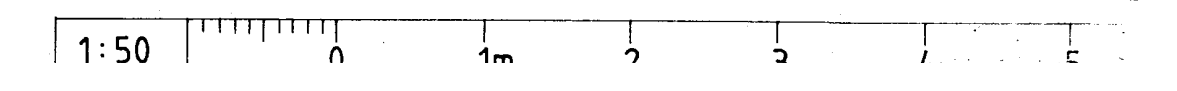
**RAY THURSTON Ltd**  
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 PAYNTER DEVELOPMENTS LIMITED

DUCT LAYOUT LEVELS 4 & 9-19 INCL (12 FLOORS)

Rev	Amendment	Initials	Date
SCALE	VERIFY ALL DIMENSIONS BEFORE COMMENCING WORK	DRAWING No	857
DATE	DRAWN	APPROVED	SHEET No
4 FEB 1987	GT	JPC 1/3/88	M2
			OF SHEETS



NOTES

- 1. THE PERIMETER OF THE BUILDING IS SERVED BY CONSTANT VOLUME PAIR OF LINEAR DIFFUSERS (SEE M). THE OUTER DIFFUSER IS 800MM LONG FLANGED, THE INNER IS FITTED BETWEEN RETURN AIR EXTRUSION. SEE CROSS SECT M 6
- 2. AIR HANDLING LIGHT FITTINGS ARE USED
- 3. CENTRE ZONE DIFFUSERS ARE VARIABLE VOLUME DOWN TO 70%
- 4. VOLUMES SHOWN ARE 100% VALUES
- 5. VAV CONTROLLERS TO BE SITUATED IN PLANT ROOMS

DIFFUSERS

AS MANUFACTURED BY HOLYOAKE INDUSTRIES LTD

A CSD 25 1 SLOT 800 MM LONG FLANGE END (TYPE F) MILL FINISH  
 B CSD 25 1 1200 MM LONG STOP END (TYPE S) MILL FINISH  
 C\* CSRL 300 x 300 φ175 NECK, TO REPLACE 600 x 600 CONCEALED TILE  
 D\* CSRL 300 x 300 φ150 "

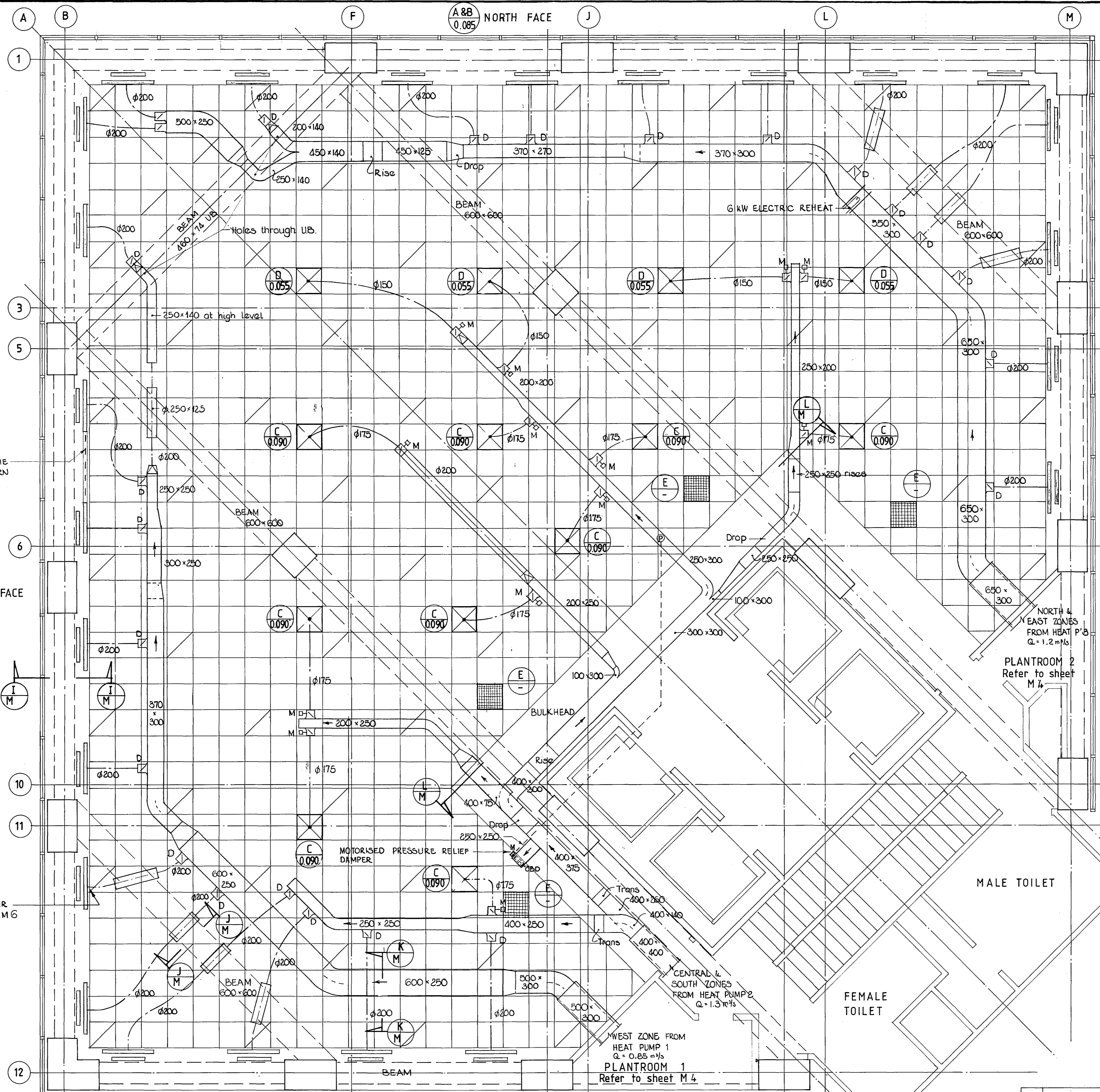
\*COLOUR TO ARCHITECTS' APPROVAL.

LEGEND

- ACUSTIC FLEXIBLE DUCT
- 'BULLOCK' SPUN FITTING WITH MANUAL DAMPER
- 'BULLOCK' SPUN FITTING WITH MOTORIZED DAMPER

THIS SECTION OF THE PERIMETER IS RETURN AIR SLOT. SEE M 6

HEATING / COOLING CHANGEOVER MECHANISM TO LINEARS SEE M 6



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 Approved Subject to the By-Laws  
 2 APR 1988  
 Per Engineer

PERMIT DRAWINGS  
 ISSUED. DATE 1 MAR 1988

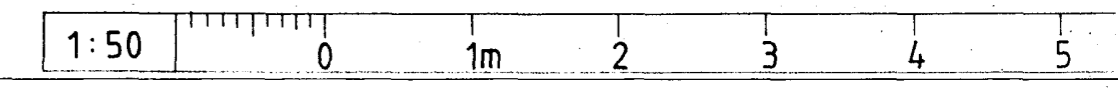
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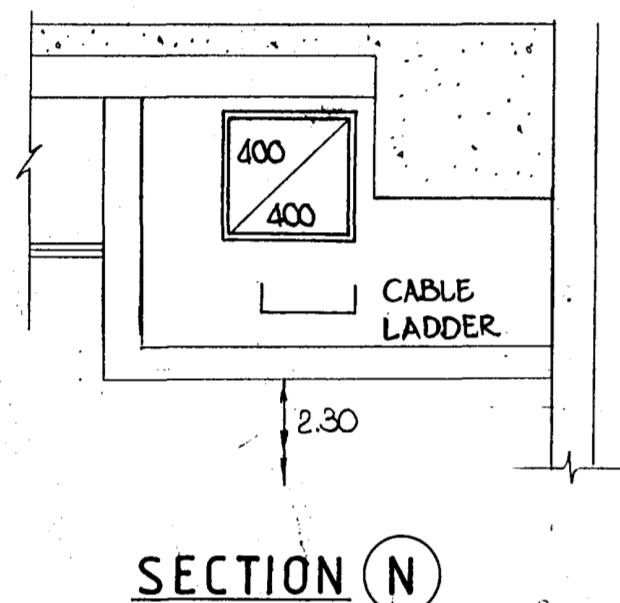
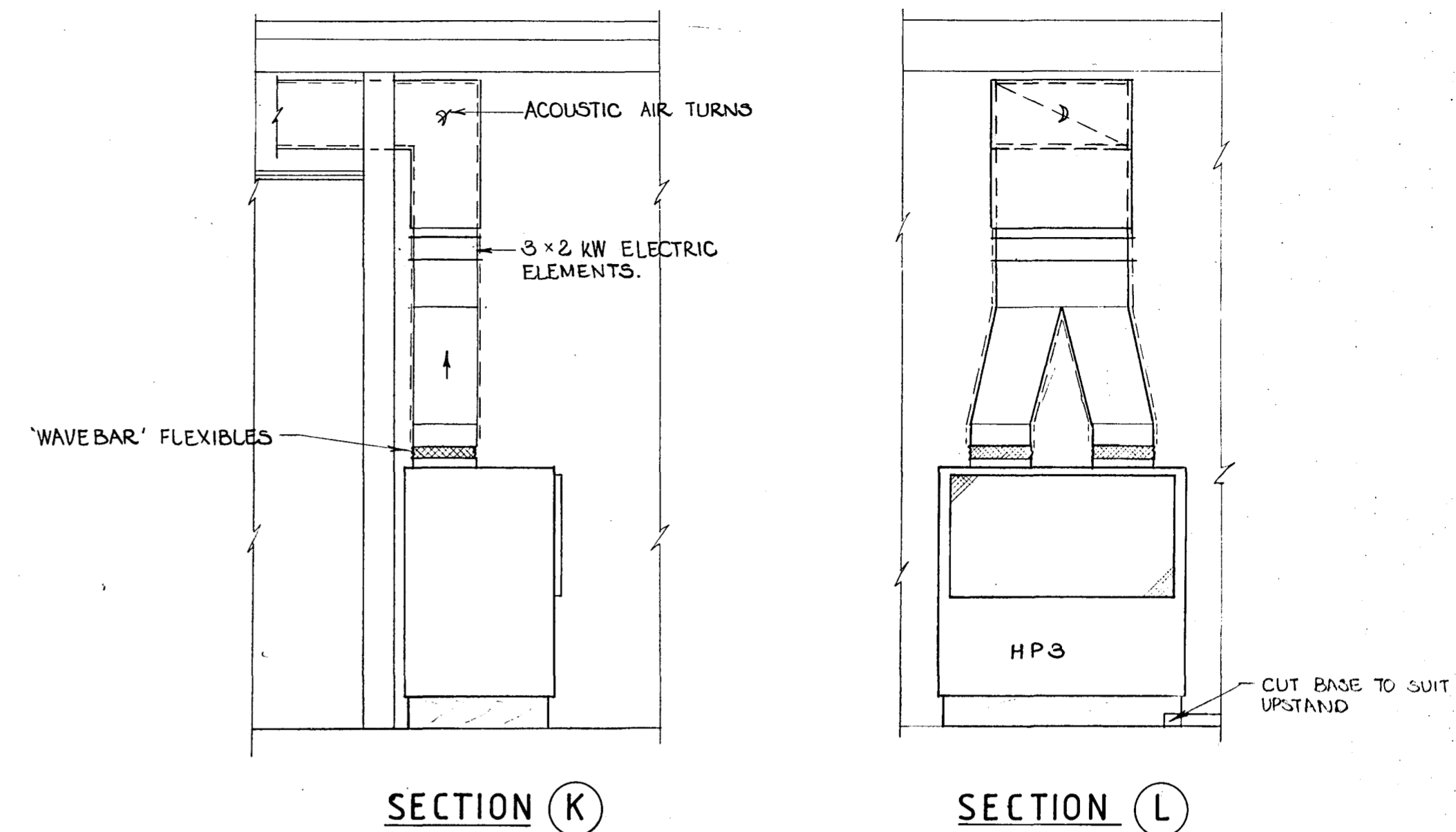
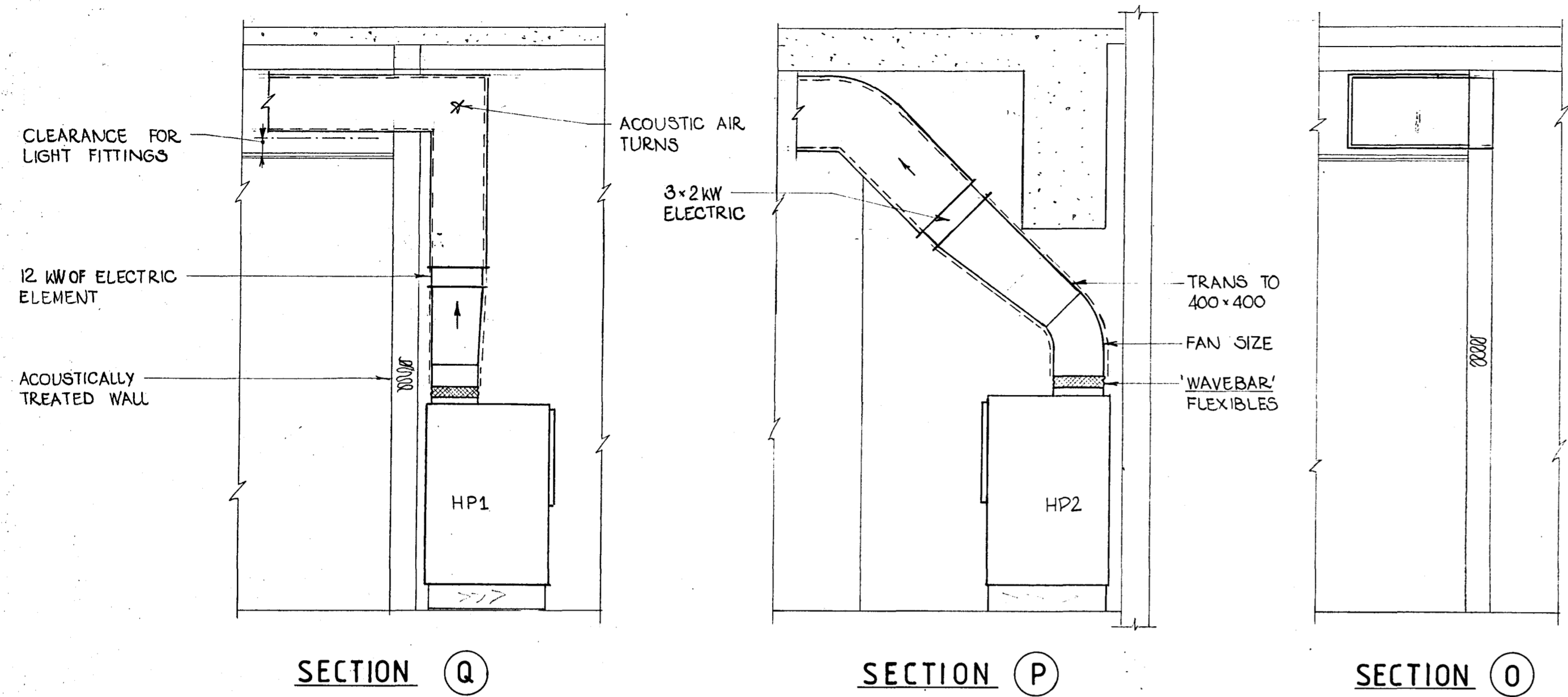
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DUCT LAYOUT LEVELS 5-8 INCL [4 FLOORS]

Rev	Amendment	Initials	Date
SCALE	VERIFY ALL DIMENSIONS BEFORE COMMENCING WORK	DRAWING No	857
DATE	DRAWN	APPROVED	SHEET No M3
2 JAN 1988	B.R.C.	13/1988	OF SHEETS



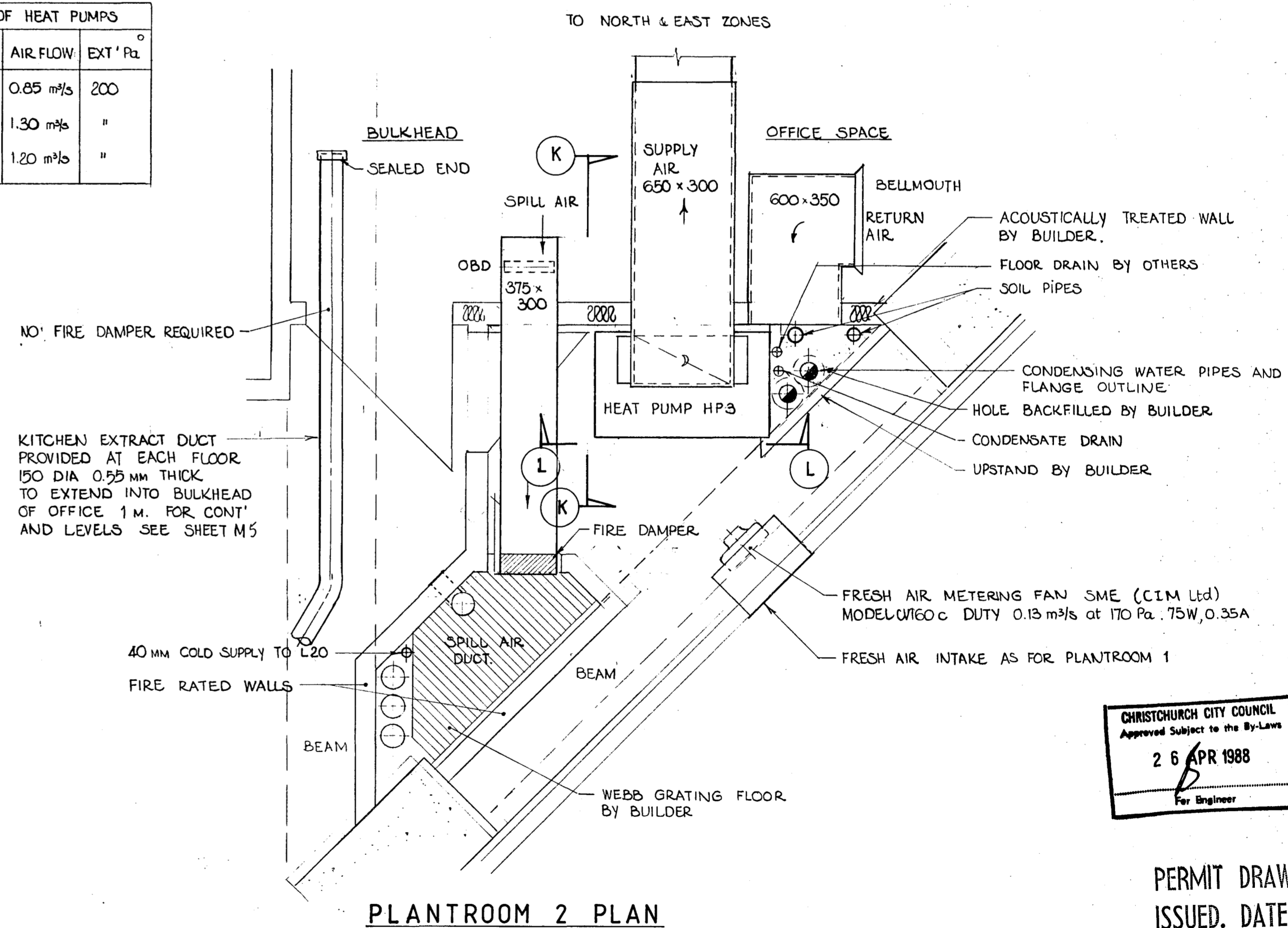
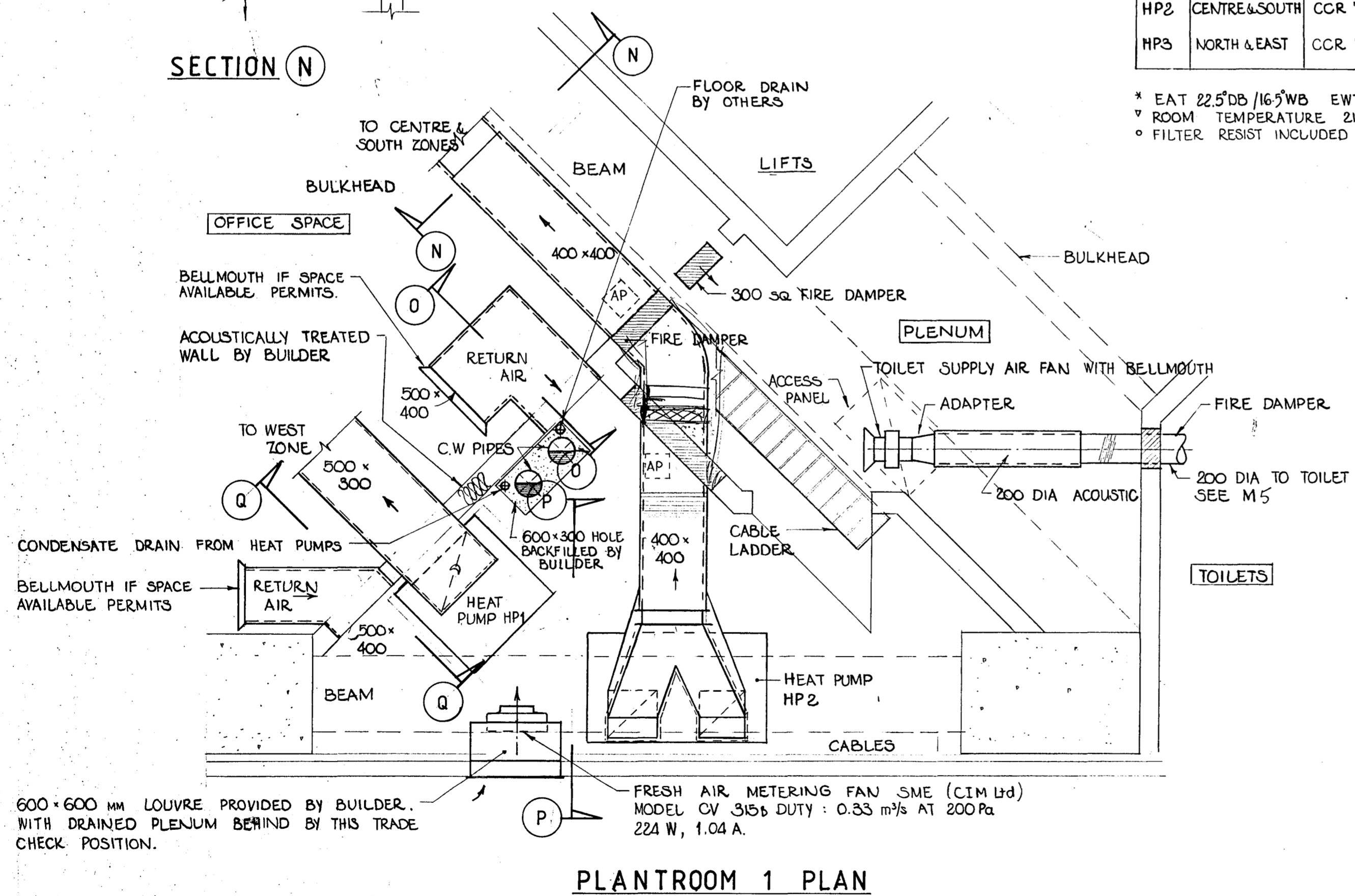


**NOTES**

- 1 APPLIES TO LEVELS 4-19 INCL
2. HEAT PUMPS TO HAVE FILTERS AND INCLINED TUBE MANOMETERS. INSTALL ON TREATED TIMBER 150 x 50 MM BASES

BRIEF PLANT SCHEDULE OF HEAT PUMPS						
REF	SERVES	TEMPERZONE	COOLING	HEATING	AIR FLOW	EXT' R <sub>2</sub>
HP1	WEST ZONE	CCR 500S	11.3/14.6	14.7 kW	0.85 m <sup>3</sup> /s	200
HP2	CENTRE & SOUTH	CCR 750S	16.2/22.0	21.0 kW	1.30 m <sup>3</sup> /s	"
HP3	NORTH & EAST	CCR 750S	14.5/19.1	21.0 kW	1.20 m <sup>3</sup> /s	"

- \* EAT 22.5 DB / 16.5 WB EWT 30
- ▽ ROOM TEMPERATURE 21°C
- FILTER RESIST INCLUDED IN MACHINE ΔP



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26 APR 1988  
For Engineer

PERMIT DRAWINGS  
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TYPICAL FLOOR PLANTROOM DETAILS		SCALE 1:25	VERIFY ALL DIMENSIONS BEFORE COMMENCING WORK	DRAWING No <b>857</b>
DATE 21 JAN 1988	DRAWN B.Clements	APPROVED [Signature]	SHEET No M 4	

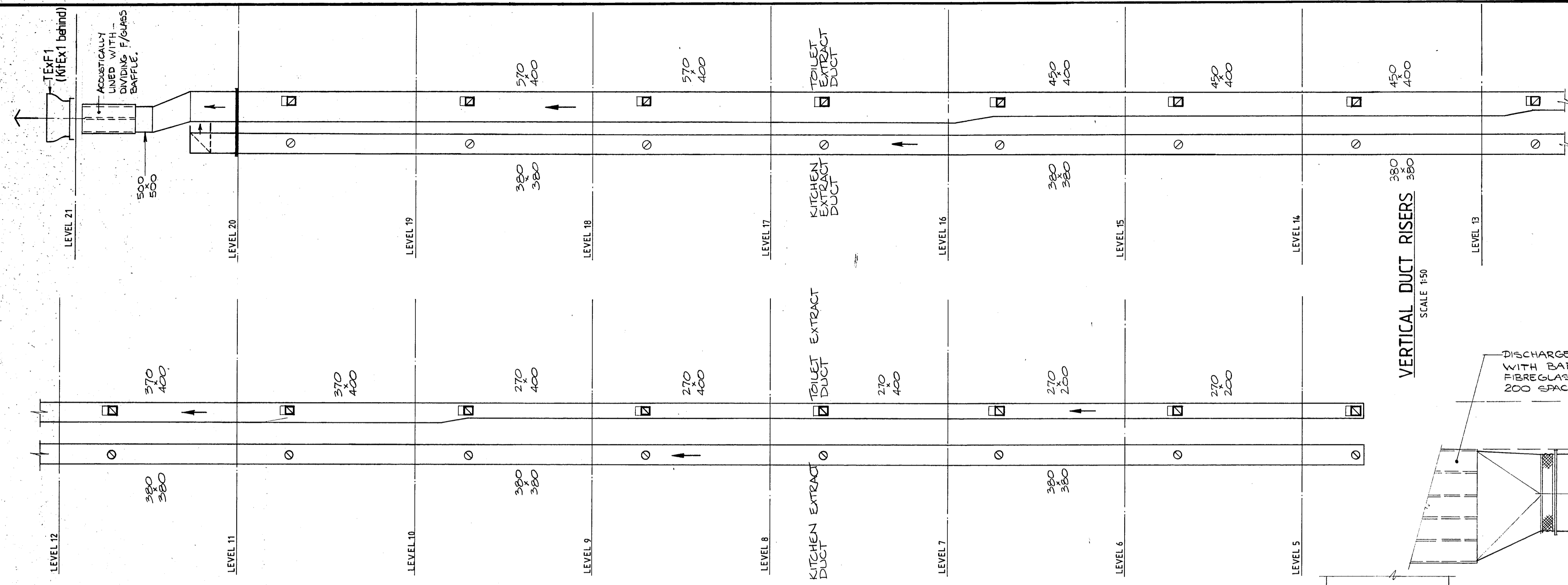
Rev	Amendment	Initials	Date

**NOTES**

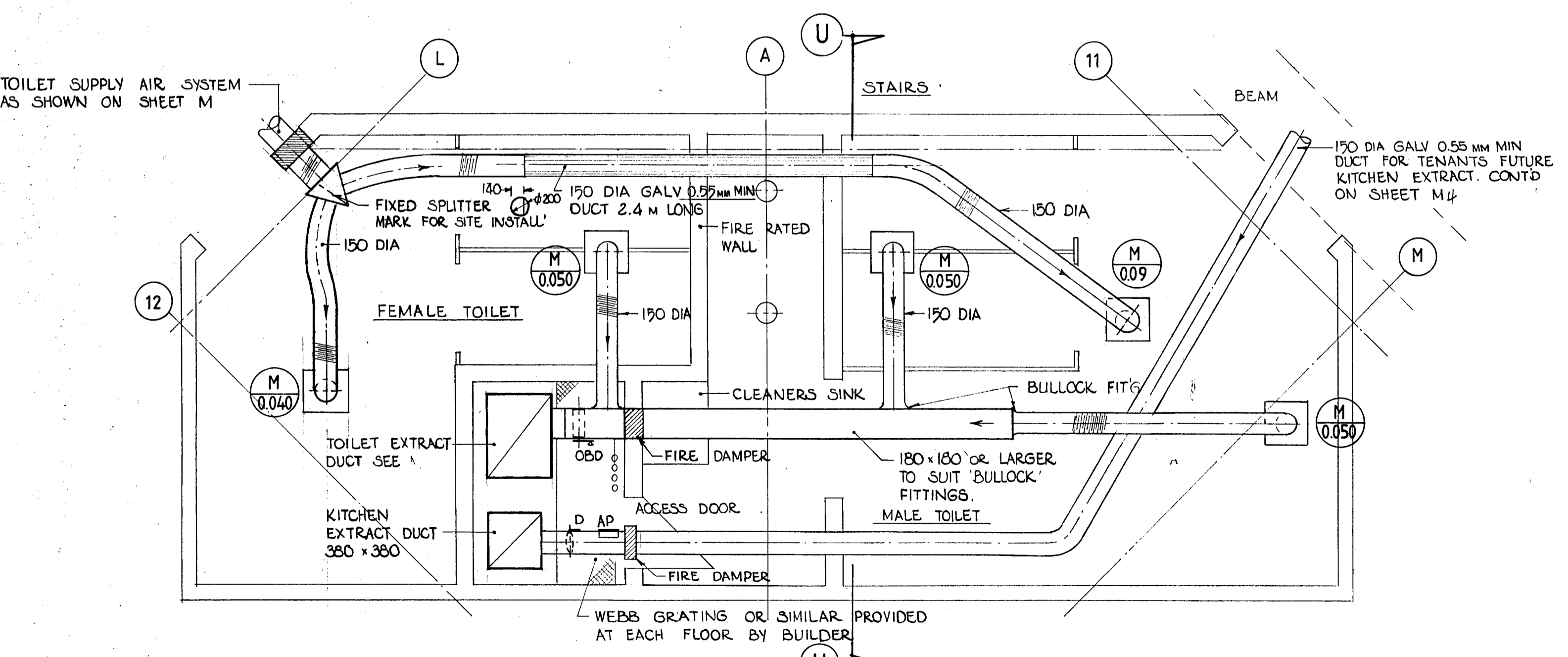
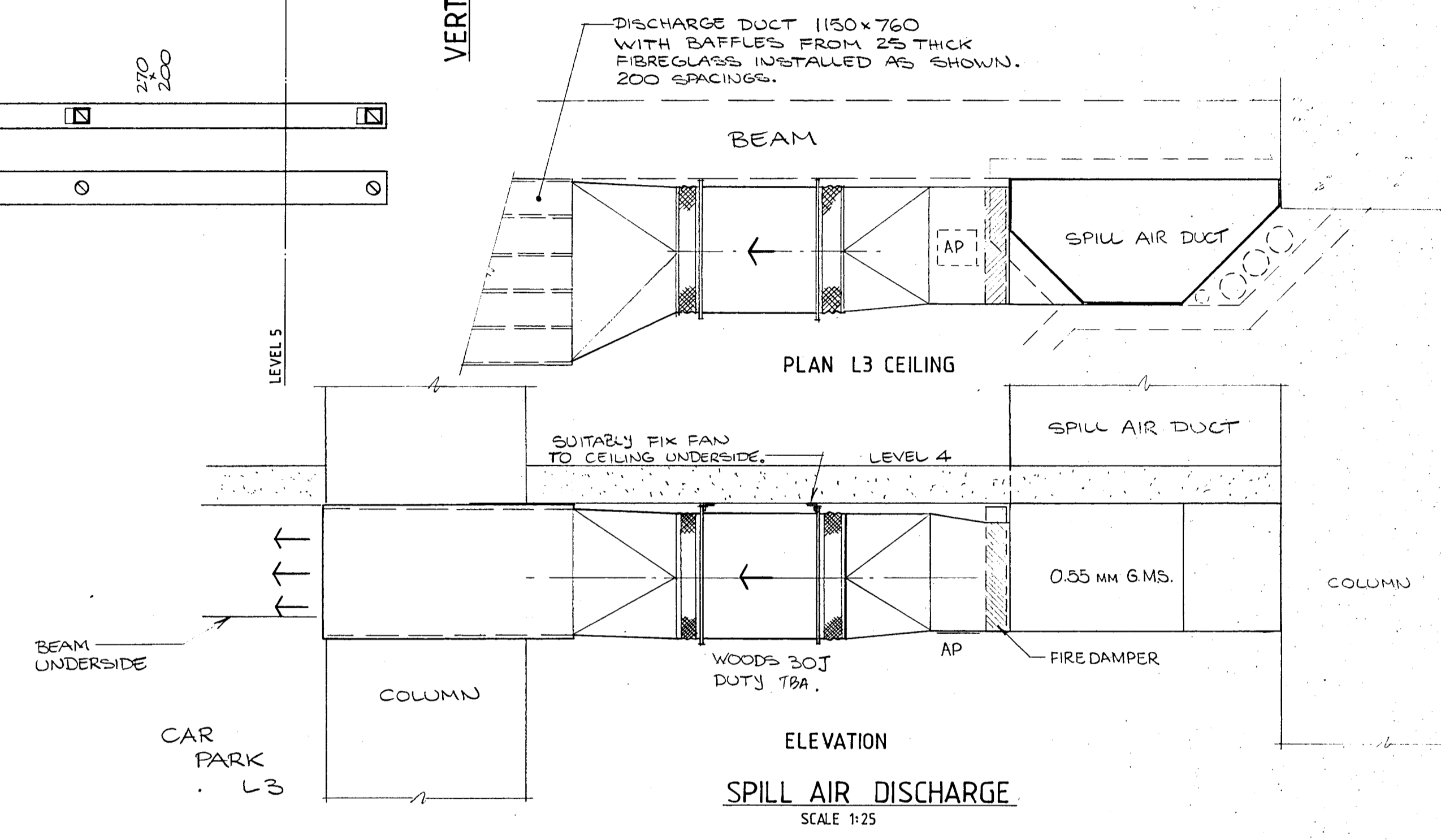
1- DUCTS TO MAINTAIN FIRE RATINGS FLEXIBLE DUCTS SHALL BE ALUMINIUM FLEXIBLE

**DIFFUSERS - GRILLES**

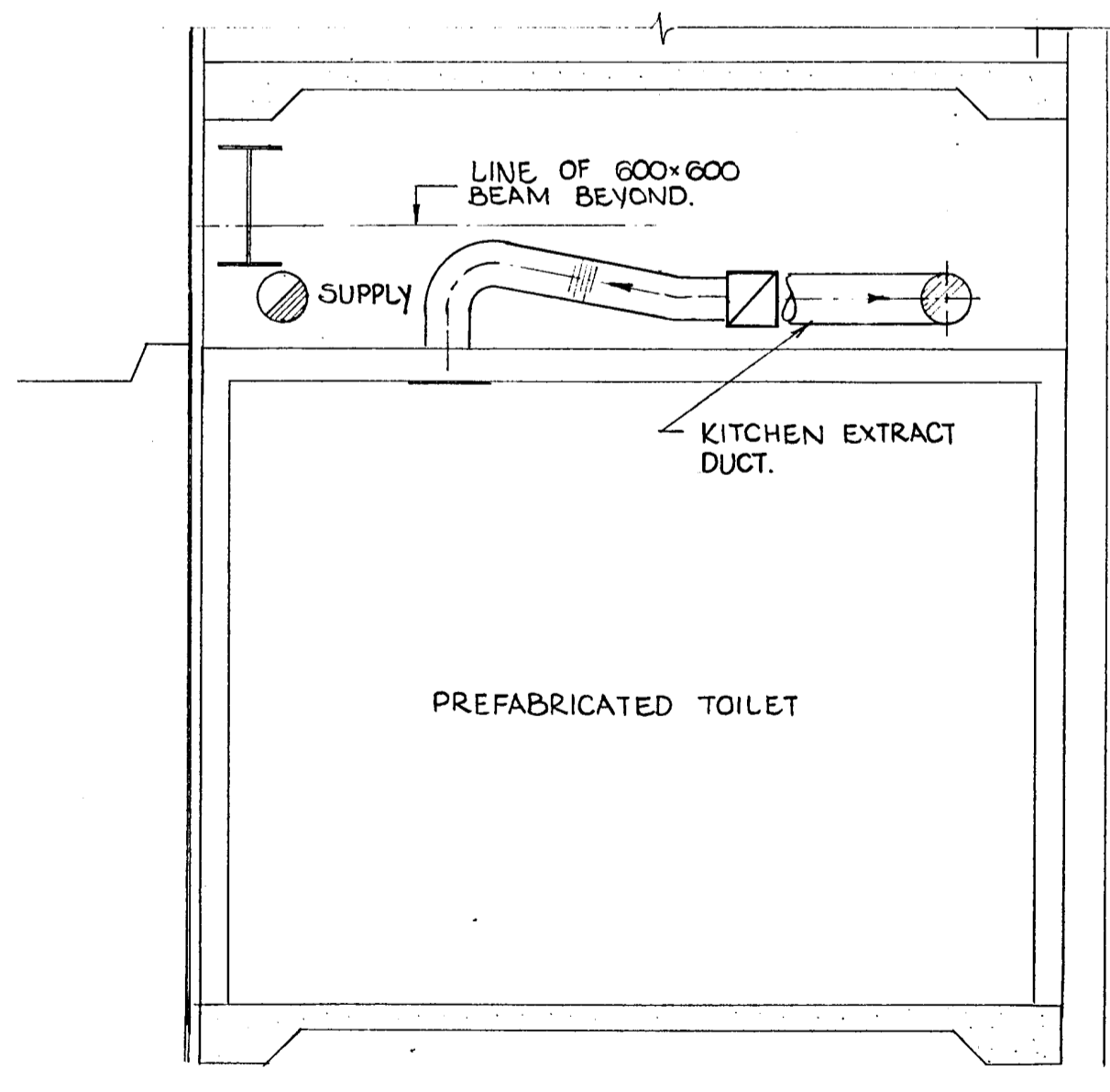
M- BARBER COLMAN MODEL SESV 6 12 (ROUND NECK WITH VOLUME CONTROL)



VERTICAL DUCT RISERS  
SCALE 1:50



**PREFABRICATED TOILET AND KITCHEN EXHAUST VENTILATION**  
SCALE 1:25



**SECTION U**  
SCALE 1:25

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26 APR 1988  
For Engineer

PERMIT DRAWINGS  
ISSUED. DATE 1 MAR 1988

Rev	Amendment	Initials	Date

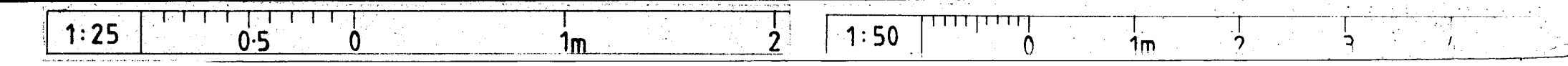
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DATE 22 JAN 88	DRAWN BRC	APPROVED <i>[Signature]</i> 22/1/88
		SHEET No <b>M5</b> OF SHEETS

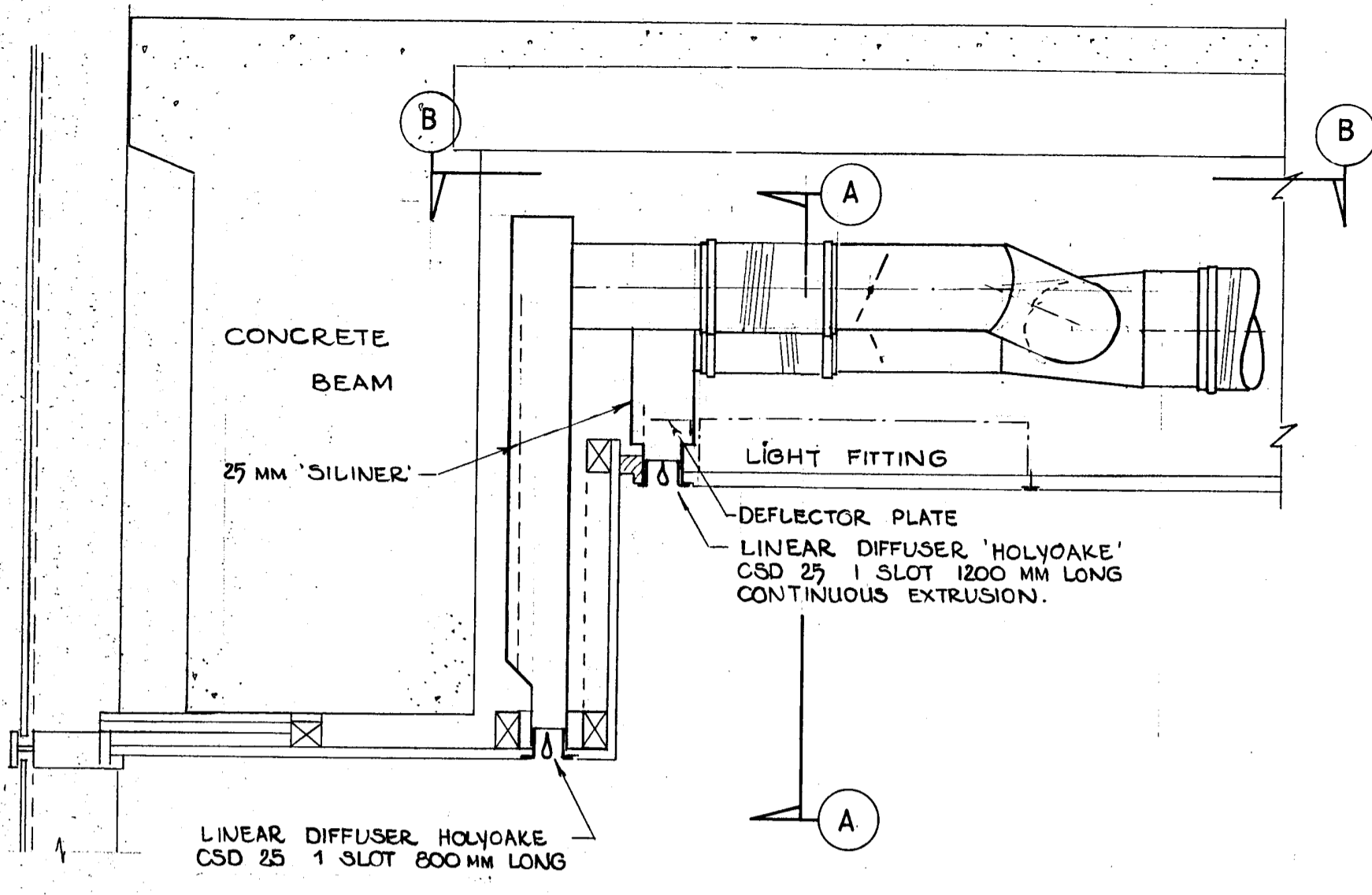
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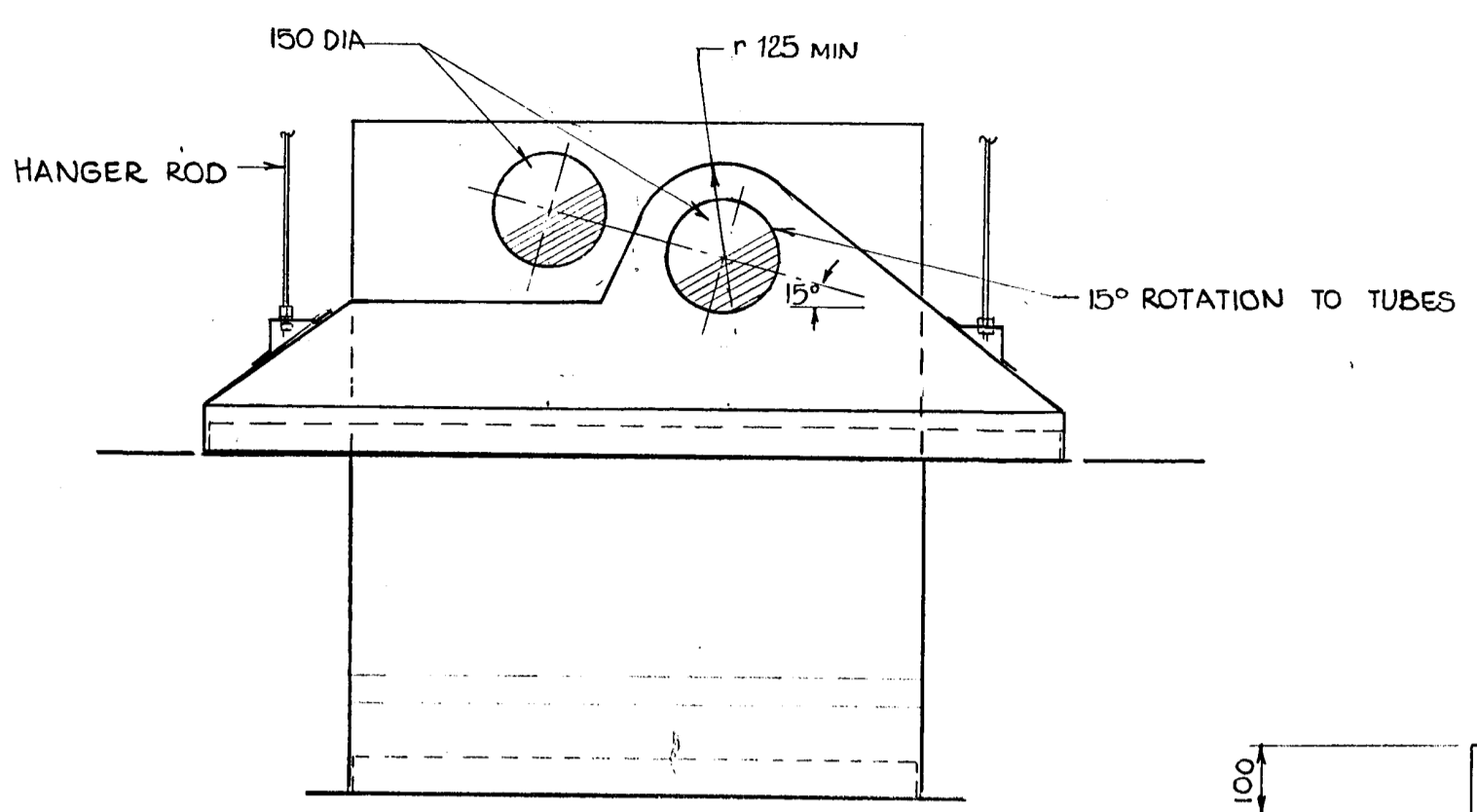
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TOILET, KITCHEN EXHAUST AND SPILL AIR DETAILS

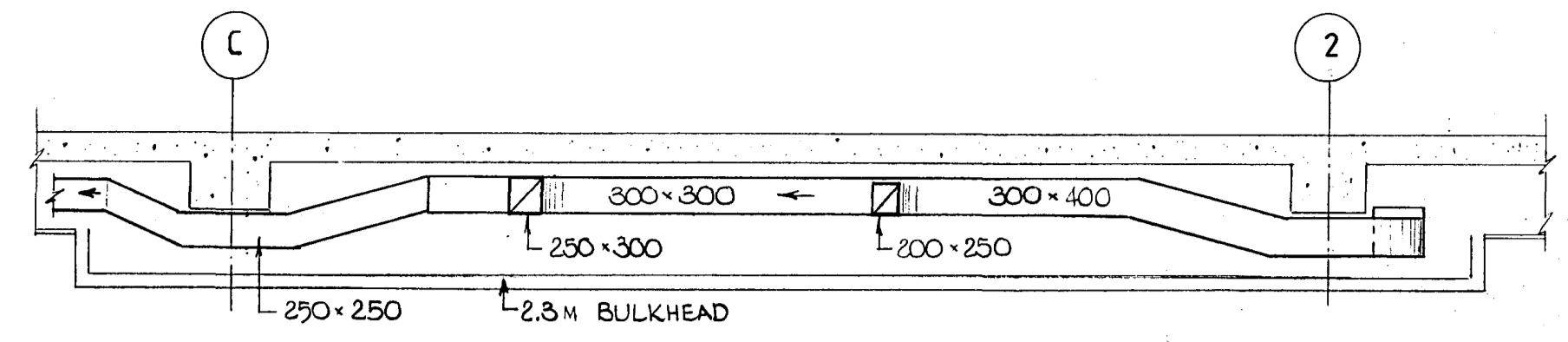




CROSS SECTION

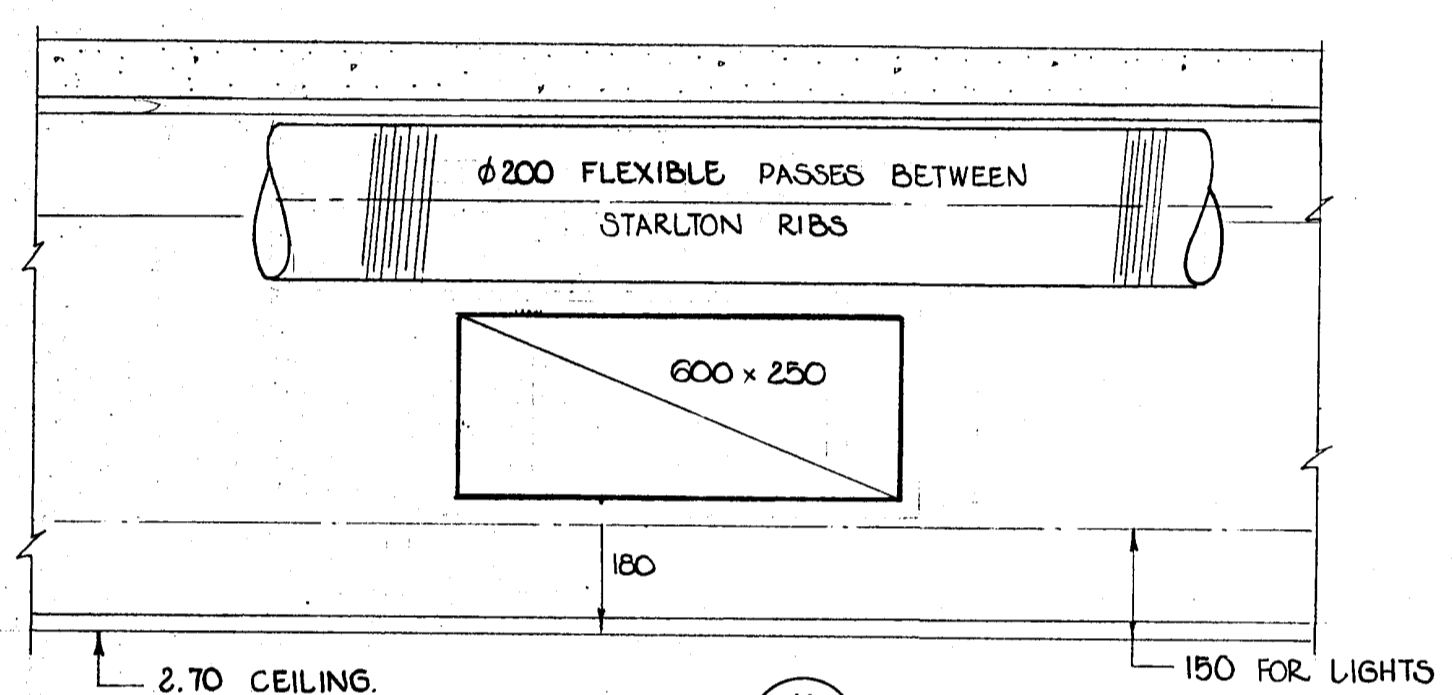


SECTION A

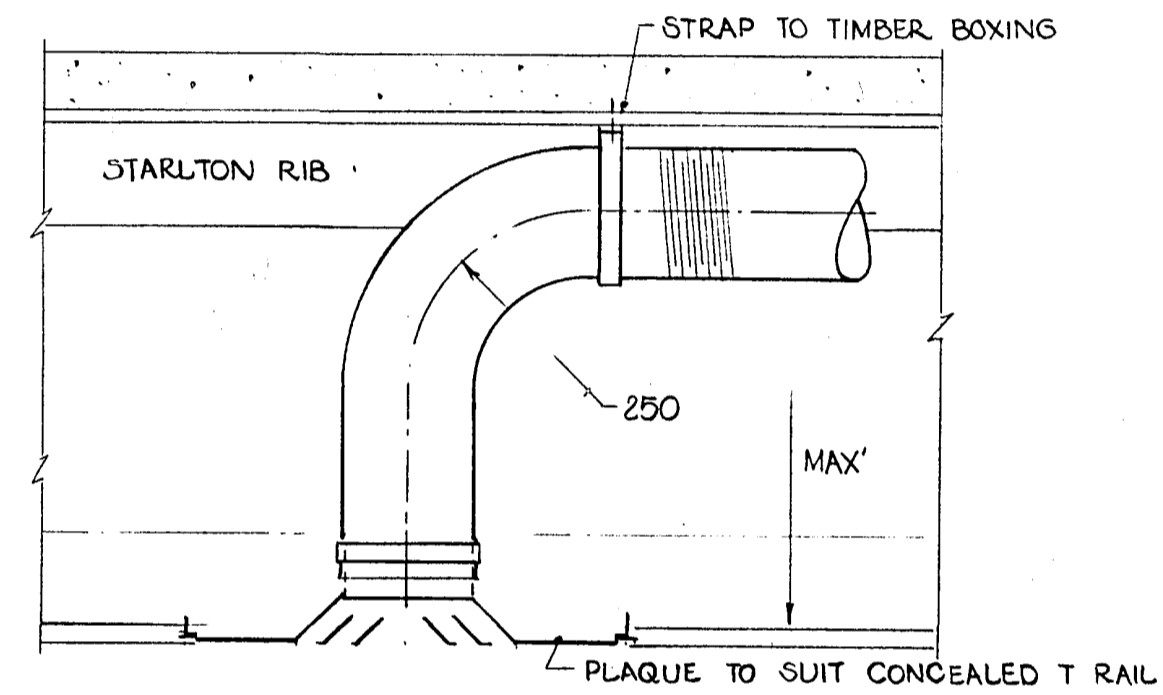


SECTION L/M  
SCALE: 1:50

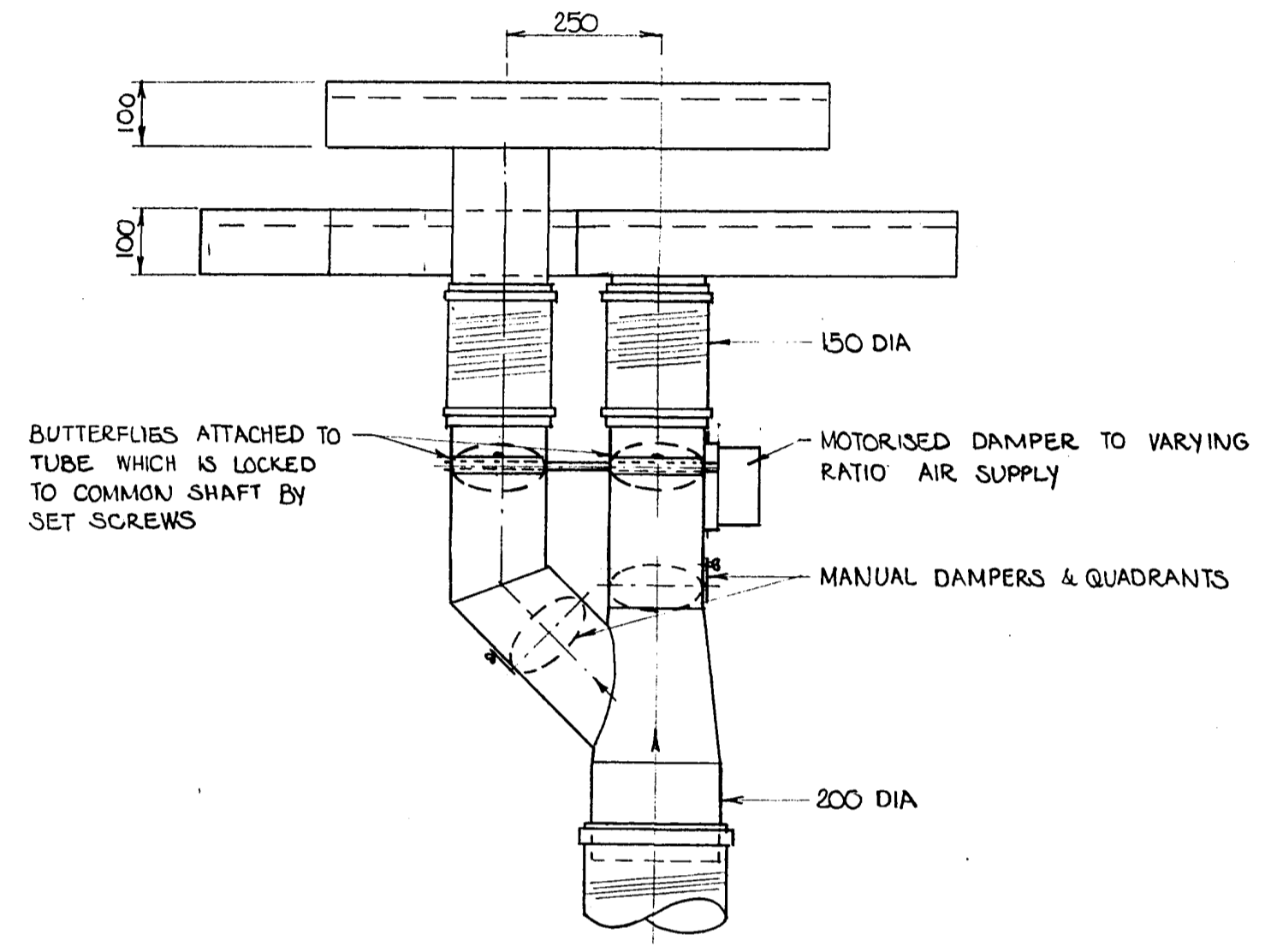
PERIMETER LINEAR DIFFUSER DETAIL  
SCALE: 1:10



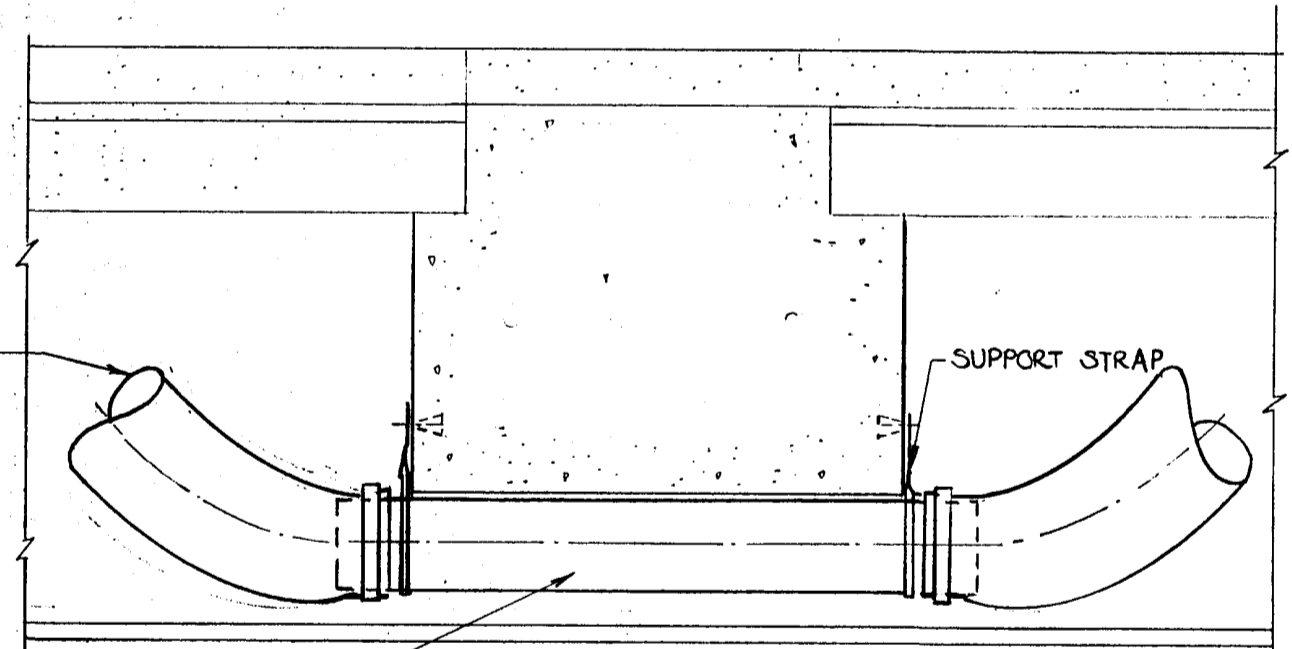
SECTION K  
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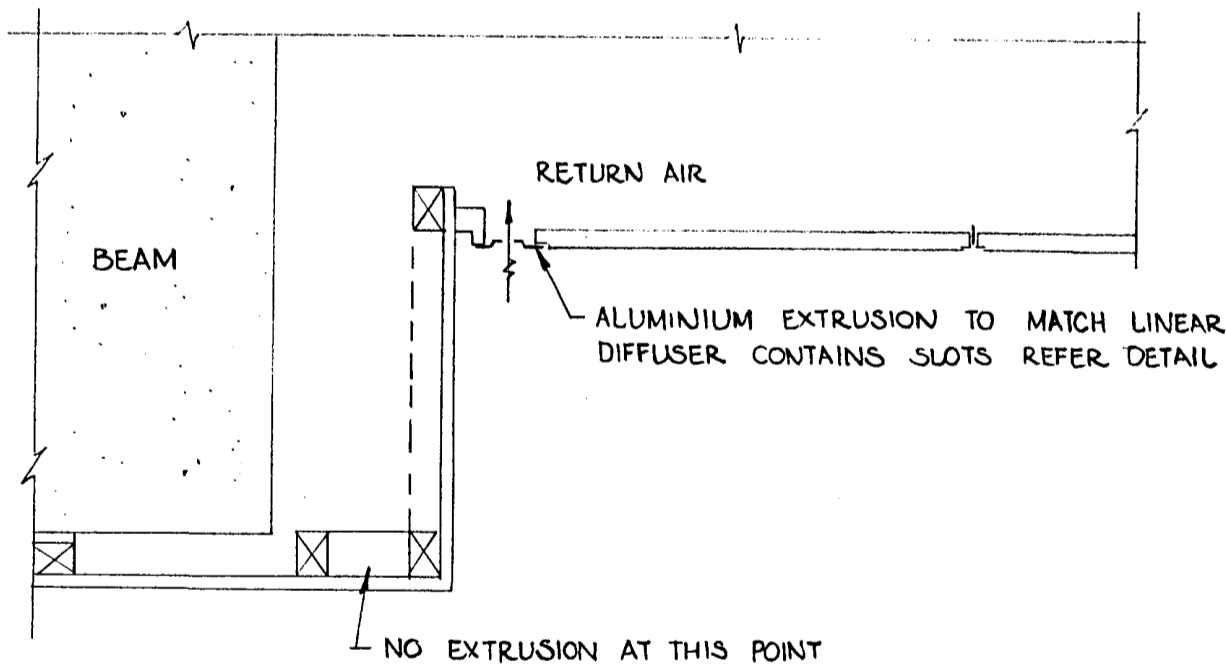
TYPICAL LOUVRE FACE DIFFUSER  
INSTALLATION DETAIL  
SCALE: 1:10



SECTION B



SECTION J/M  
SCALE: 1:10

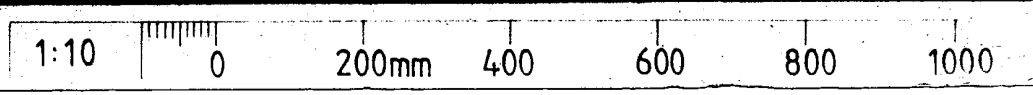


PERIMETER CROSS SECTION BETWEEN  
LINEAR DIFFUSERS IE RETURN AIR SLOT.  
SCALE: 1:10

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Rev	Amendment	Initials	Date
SCALE	VERIFY ALL DIMENSIONS BEFORE COMMENCING WORK	DRAWING No	
1:10		857	
DATE	DRAWN	APPROVED	SHEET No
27 JAN 1988	B Clements	1/3/88	M6
			OF SHEETS

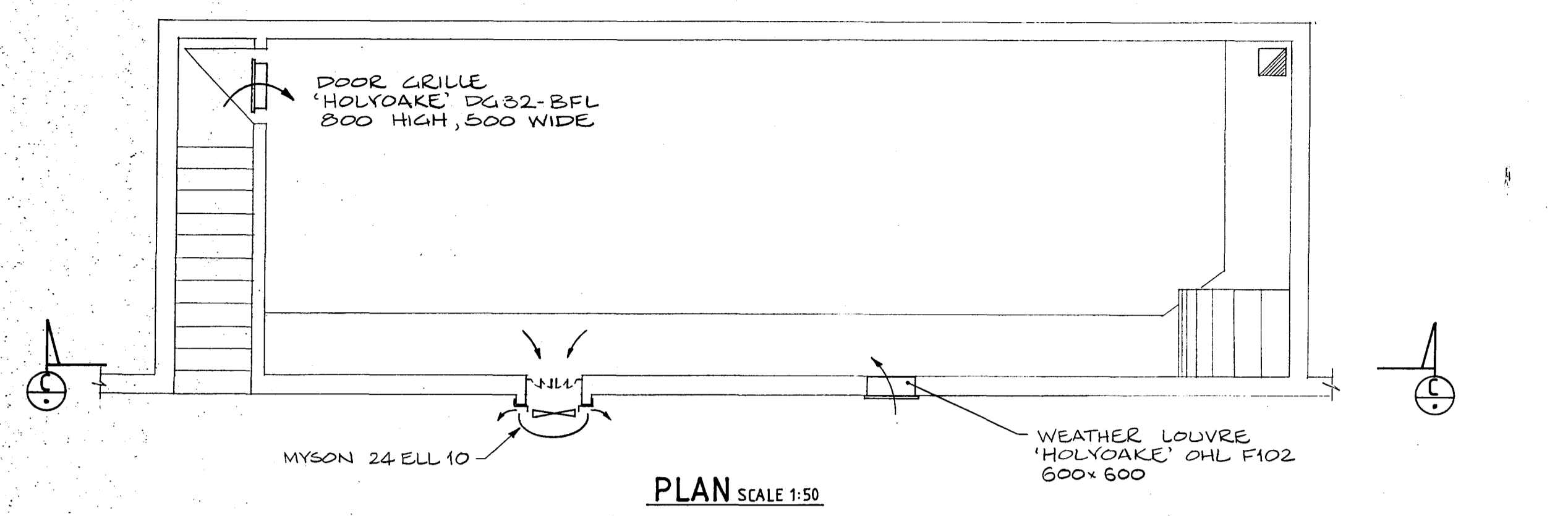


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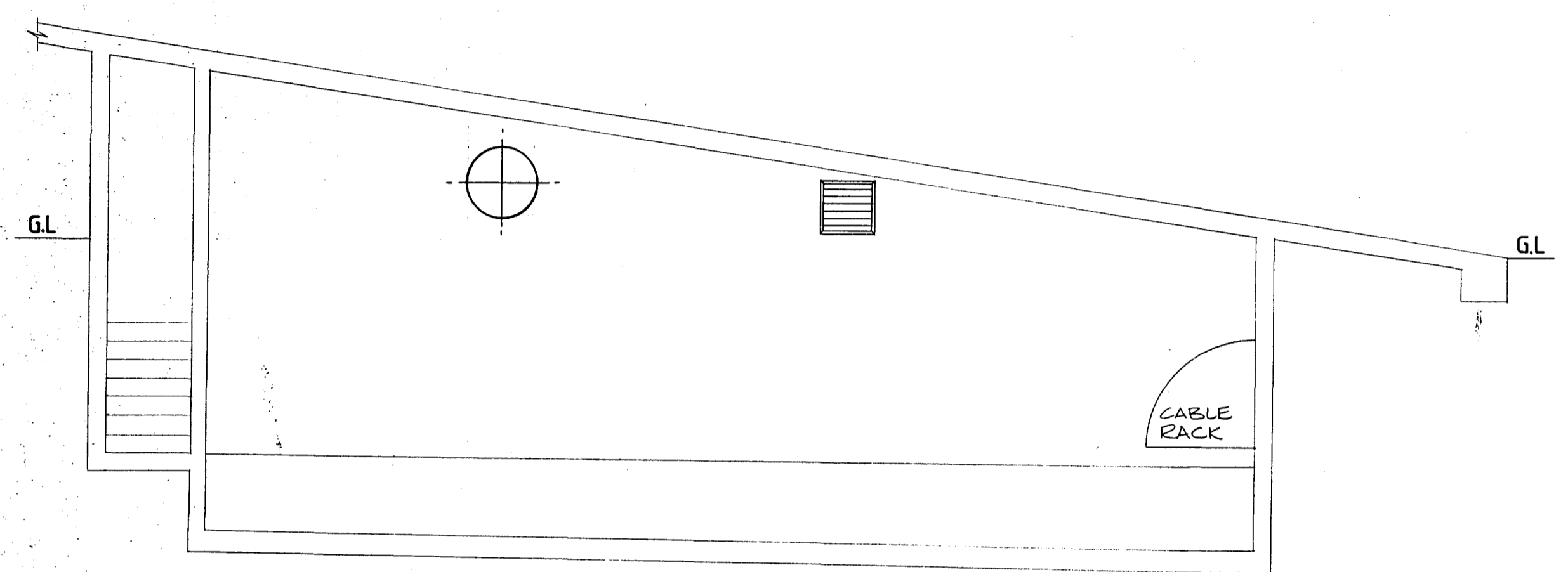
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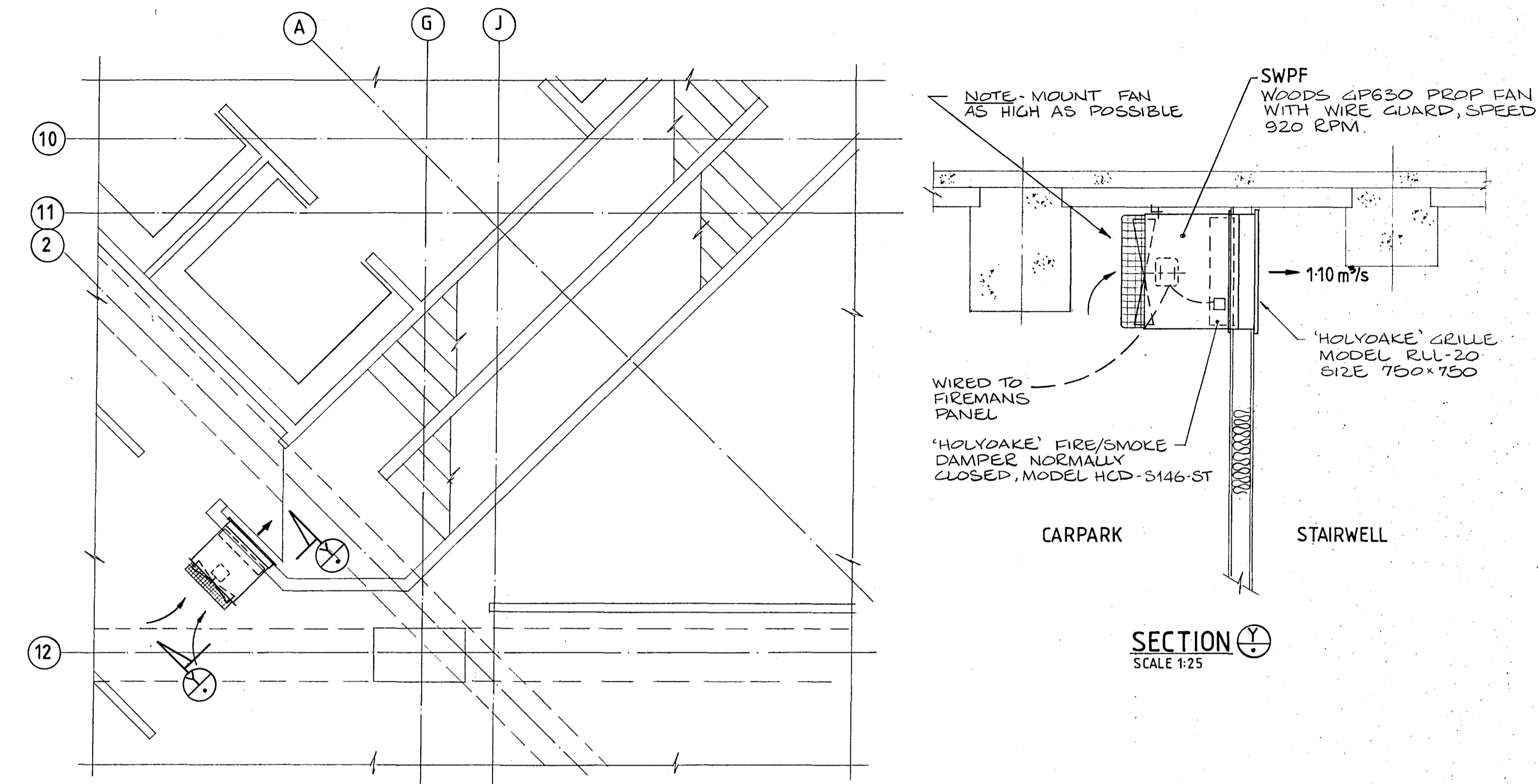
DUCT DETAILS



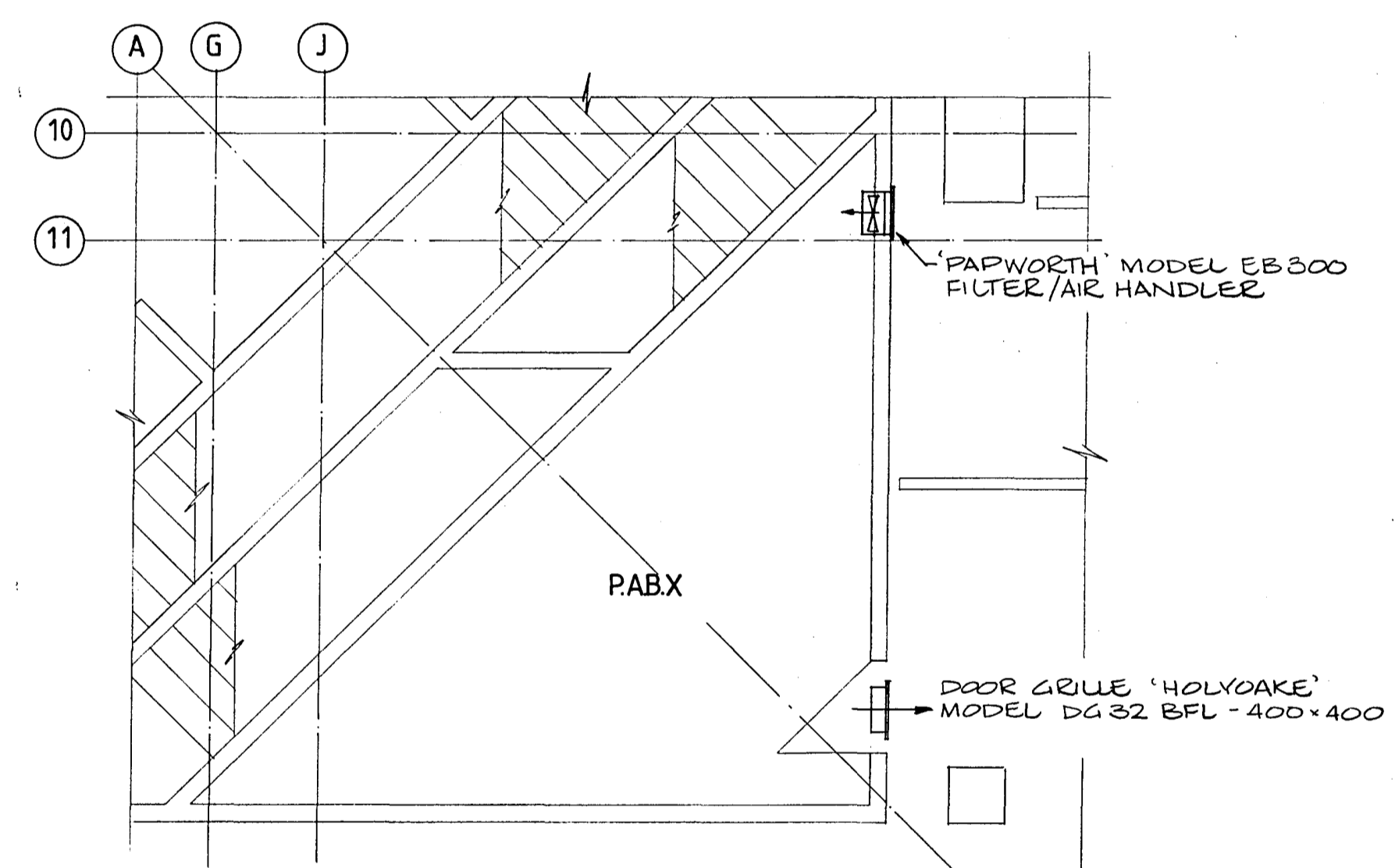
PLAN SCALE 1:50



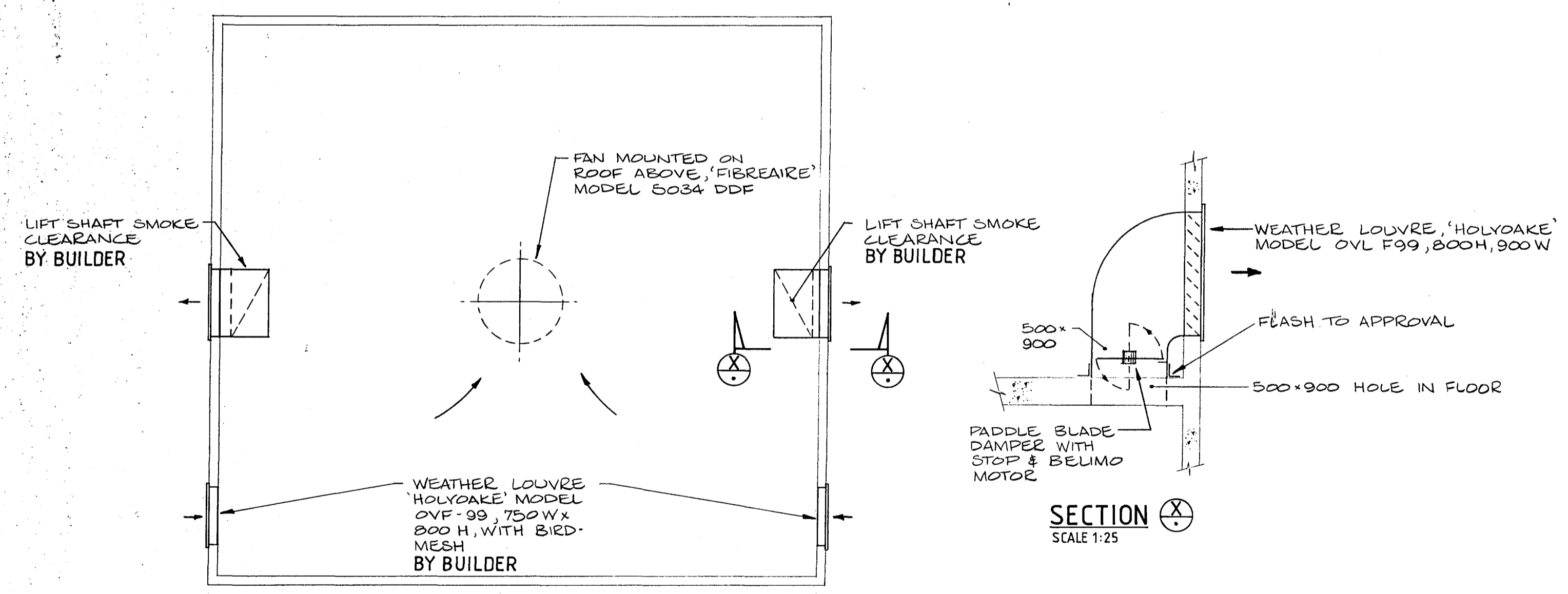
SECTION C SHOWING SUBSTATION VENTILATION SCALE 1:50



LOWER STAIRWELL PRESSURISATION FANS, LEVELS 1 & 2 SCALE 1:50



PABX ROOM VENTILATION LEVEL 1 SCALE 1:50



LIFT MOTOR ROOM PLAN SCALE 1:50

SECTION X SCALE 1:25

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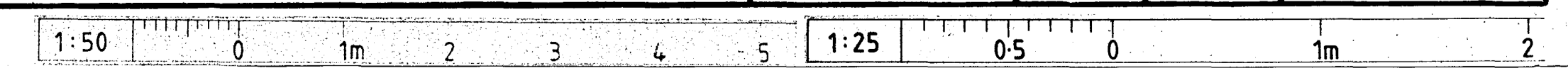
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LIFT MOTOR ROOM, P.A.B.X., SUBSTATION, STAIRWELL VENT

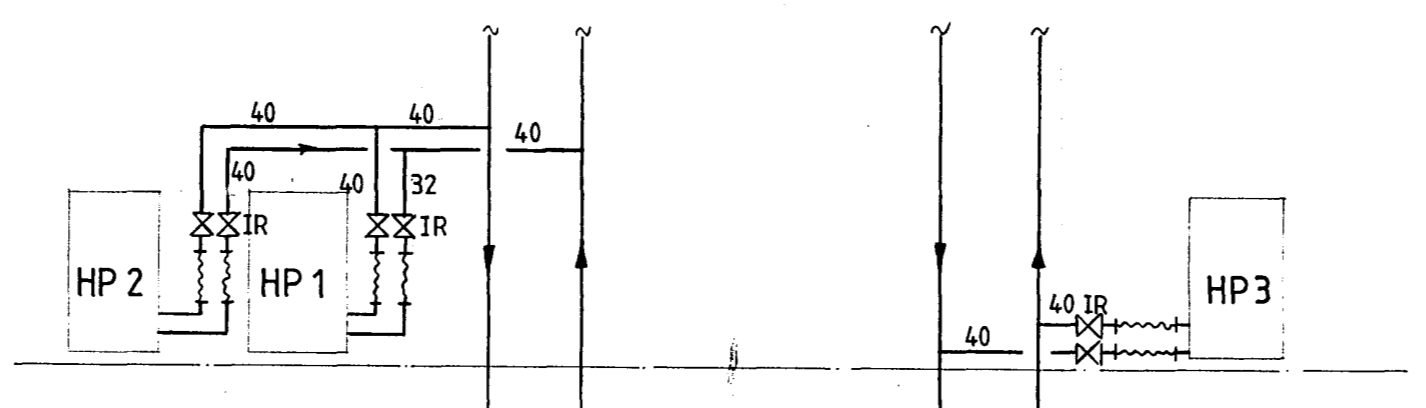
Rev	Amendment	Initials	Date
SCALE 1:50, 1:25	VERIFY ALL DIMENSIONS BEFORE COMMENCING WORK		DRAWING No 857
DATE 25-2-88	DRAWN GT	APPROVED [Signature]	SHEET No M7 OF SHEETS



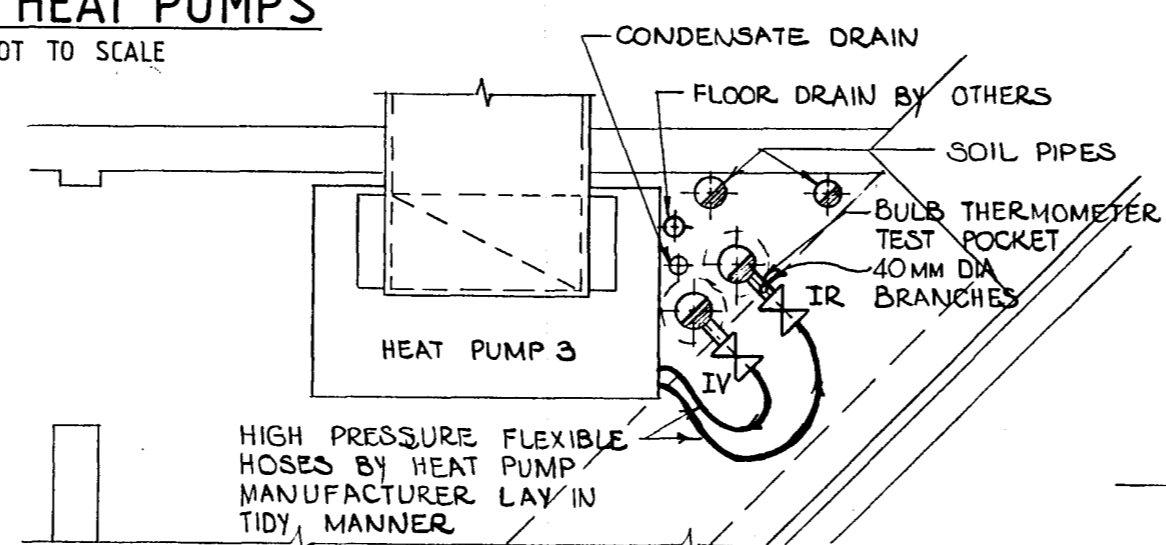


**LEGEND**

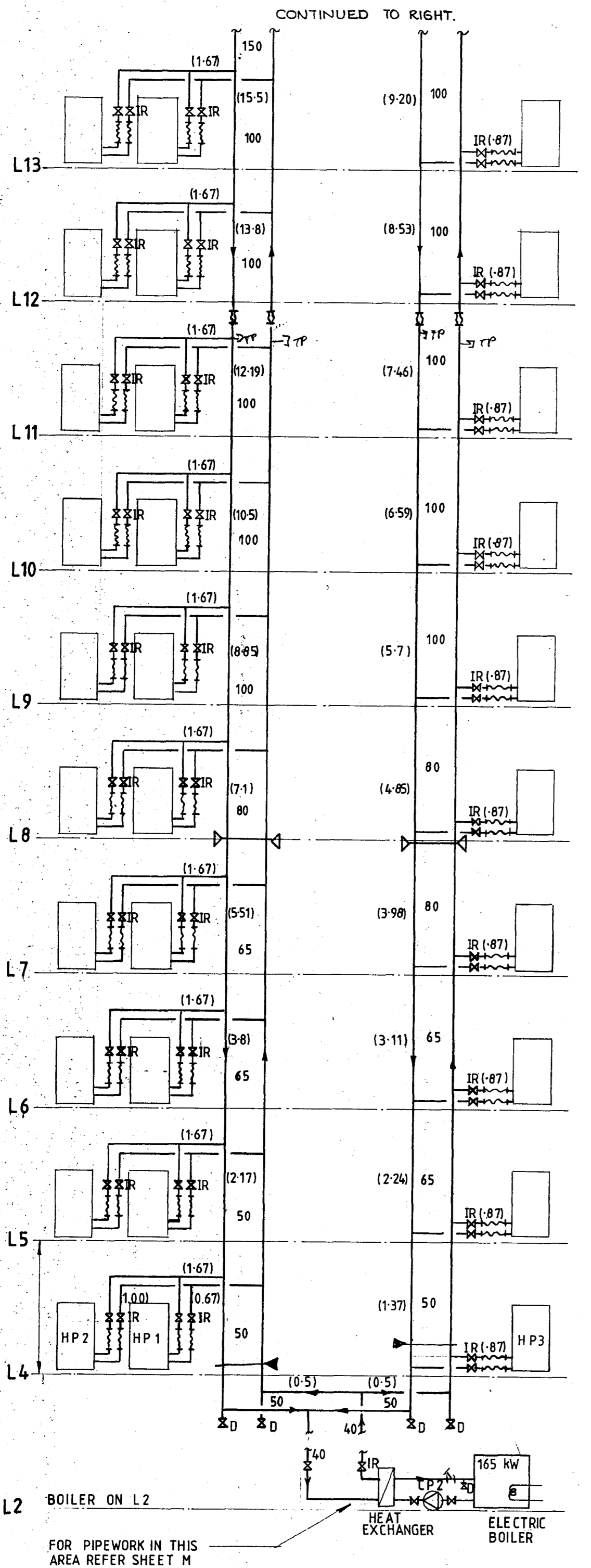
- IR ISOLATING/REGULATING VALVE
- STA-D (TOUR & ANDERSON) PIPE LINE SIZE
- GATE VALVE PIPE LINE SIZE
- FLEXIBLE PRESSURE HOSES SUPPLIED BY HEAT PUMP MFR
- EXPANSION BELLOWS 'ZENFLEX' ZFTC
- (X) FLOW RATE IN L/s
- 100 PIPE DIA
- ▷ PIPE ANCHOR



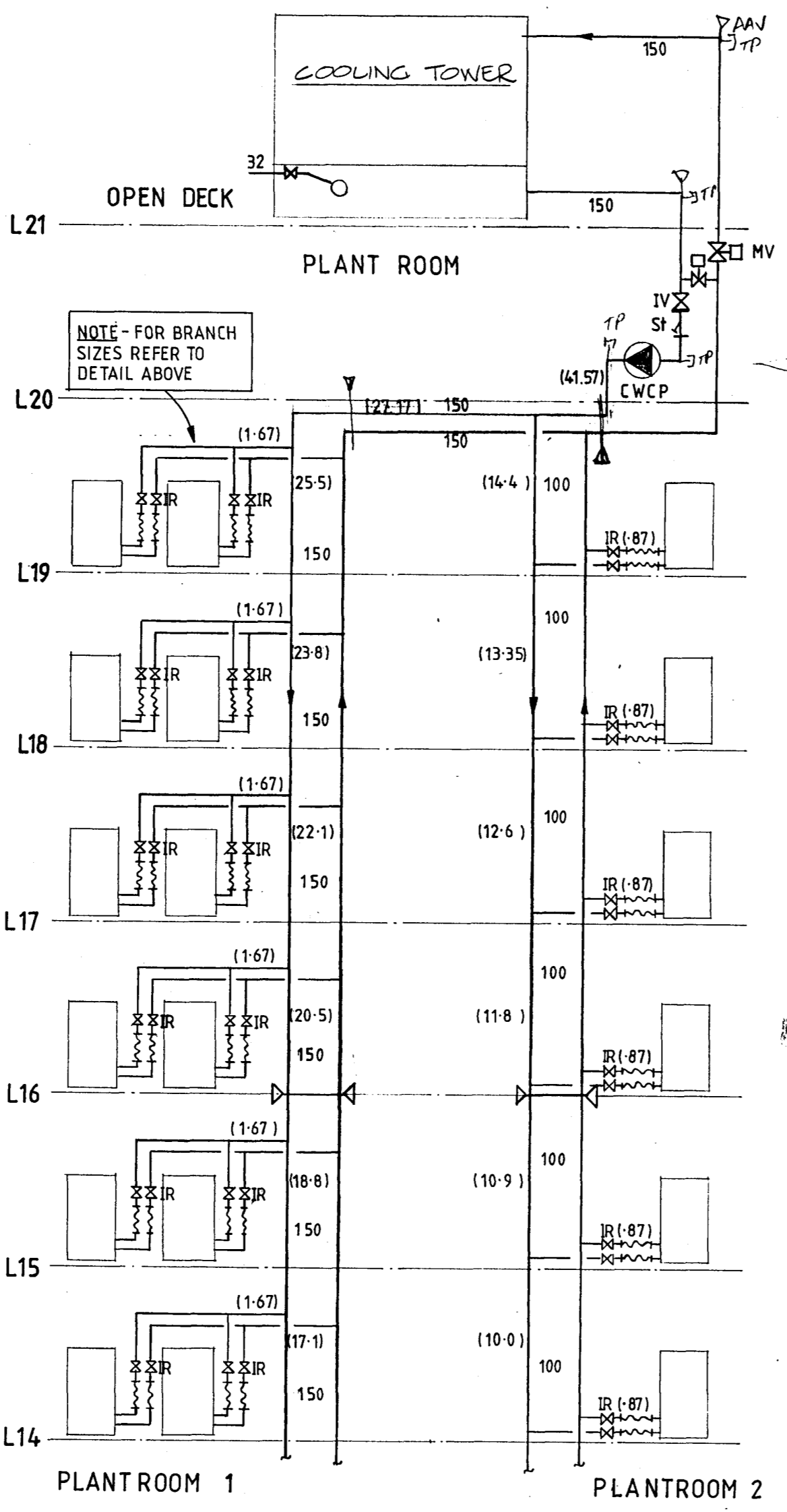
**DETAIL SHOWING BRANCH SIZES TO HEAT PUMPS**  
NOT TO SCALE



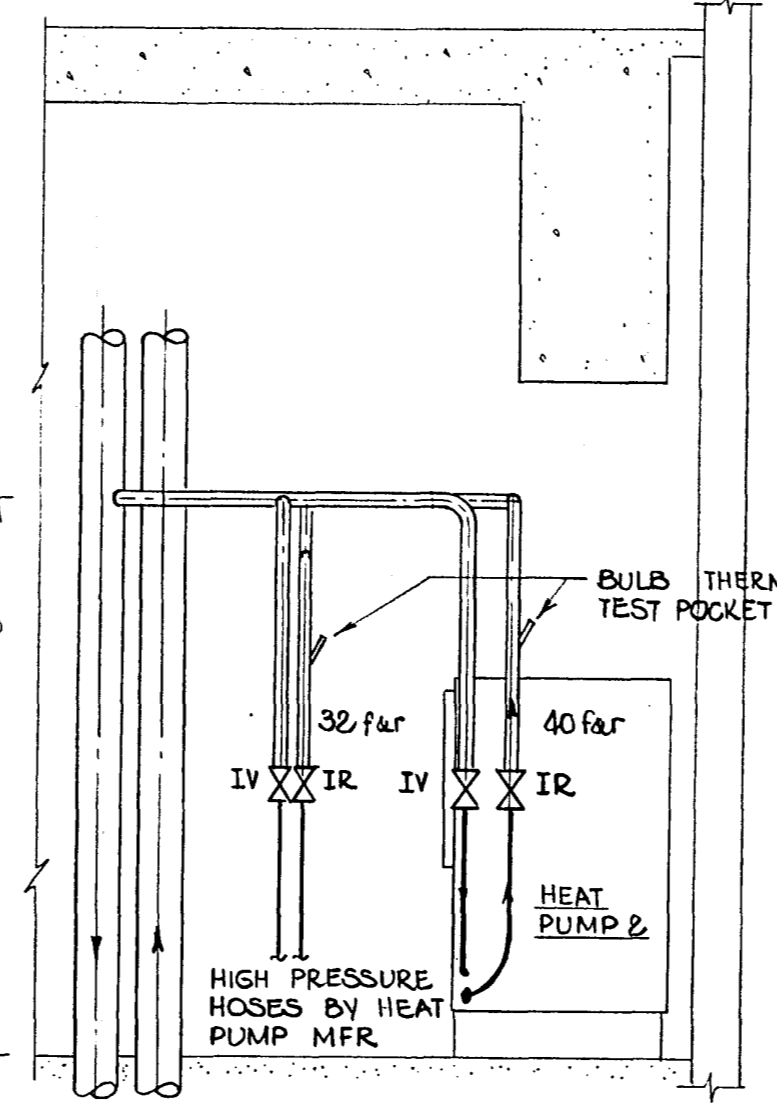
**TYPICAL CONDENSATE DRAIN ARRANGEMENT**  
NOT TO SCALE



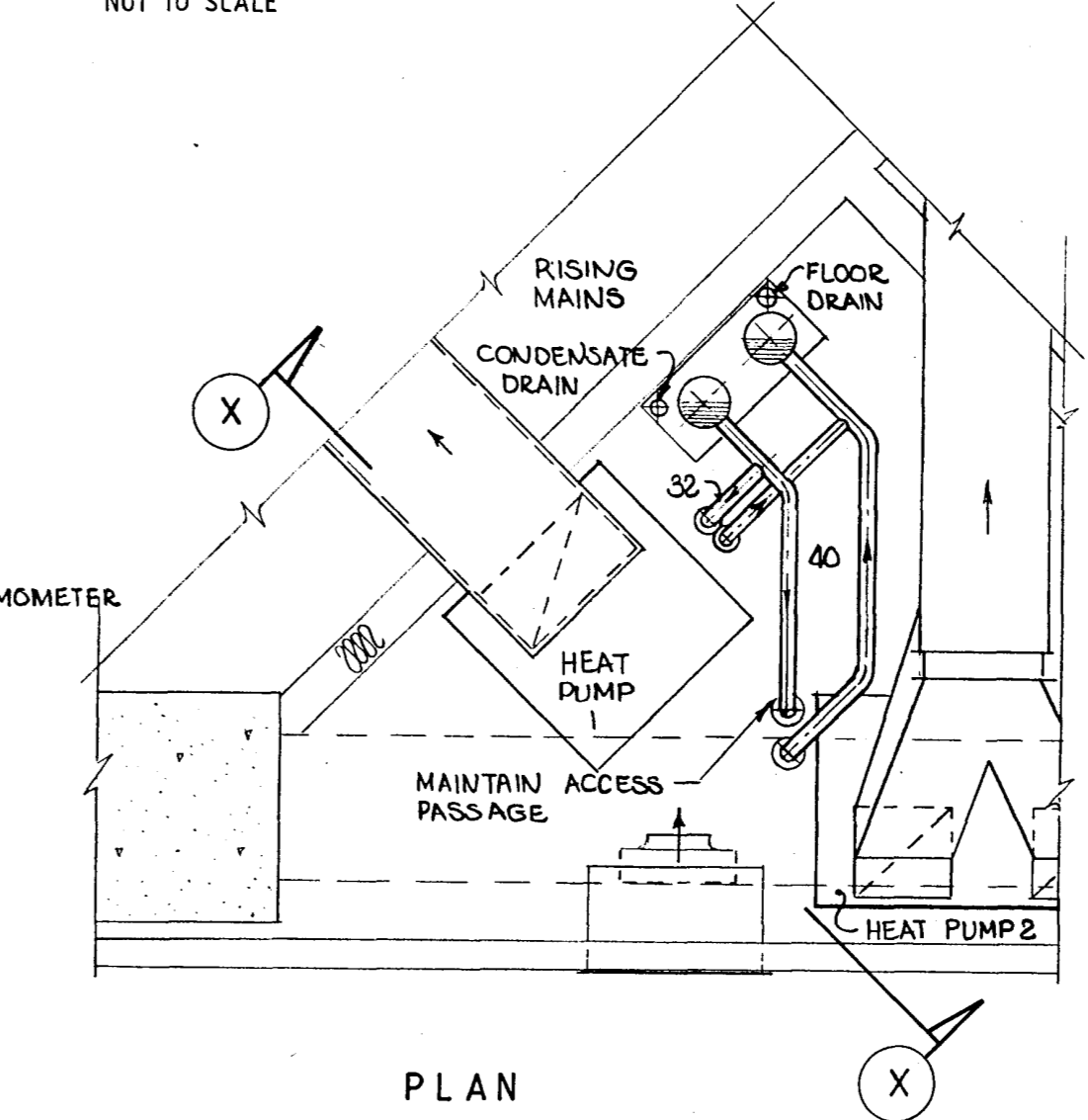
**CONDENSING WATER SCHEMATIC**  
NOT TO SCALE



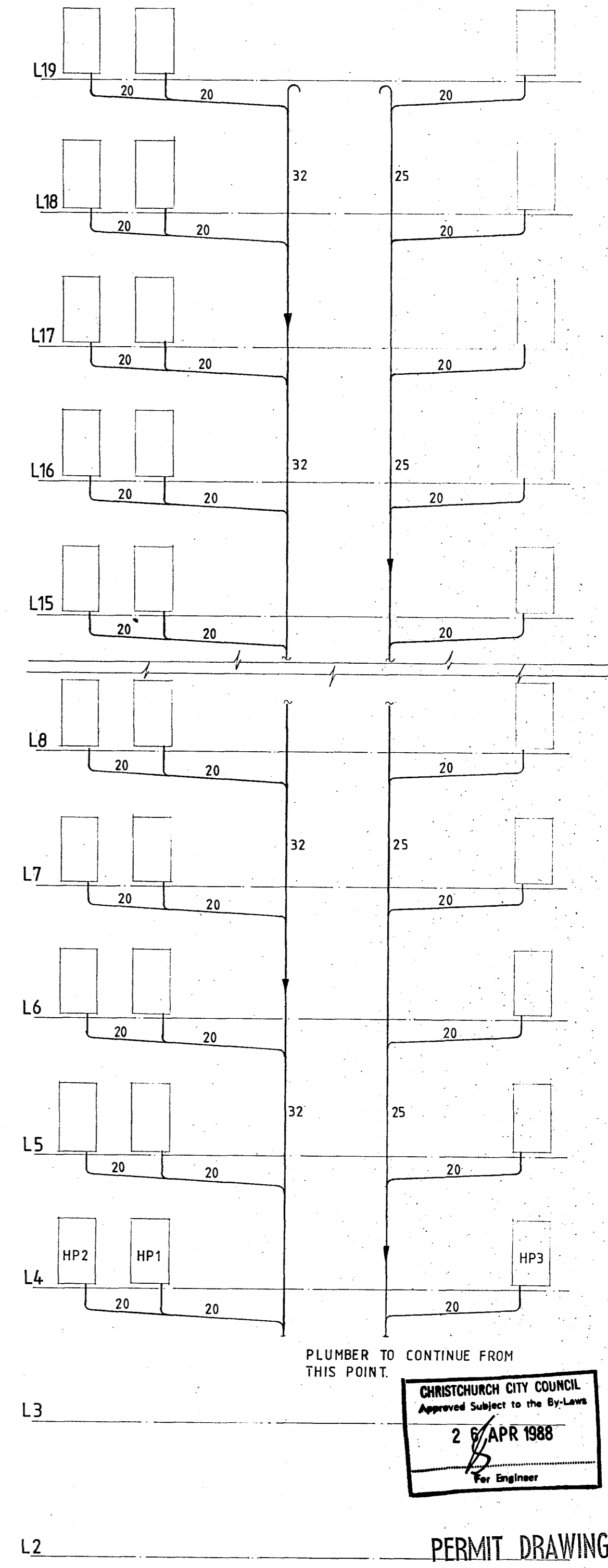
**PIPEWORK IN PLANTROOM 2** SEE M4 ALSO  
SCALE: 1:25



**SECTION X**



**PIPEWORK IN PLANTROOM 1** SEE M4 ALSO  
SCALE: 1:25



**CONDENSATE DRAIN SCHEMATIC**

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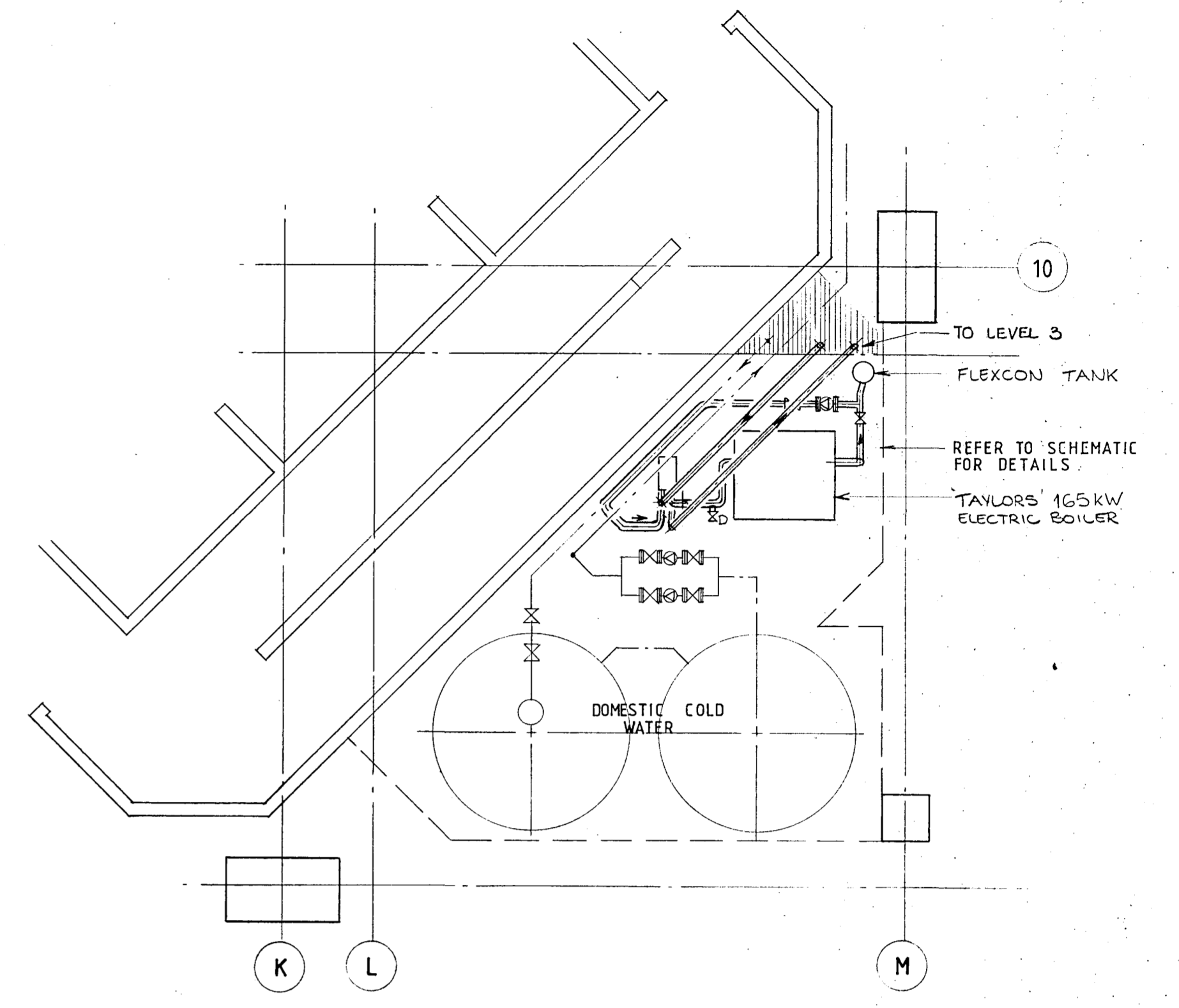
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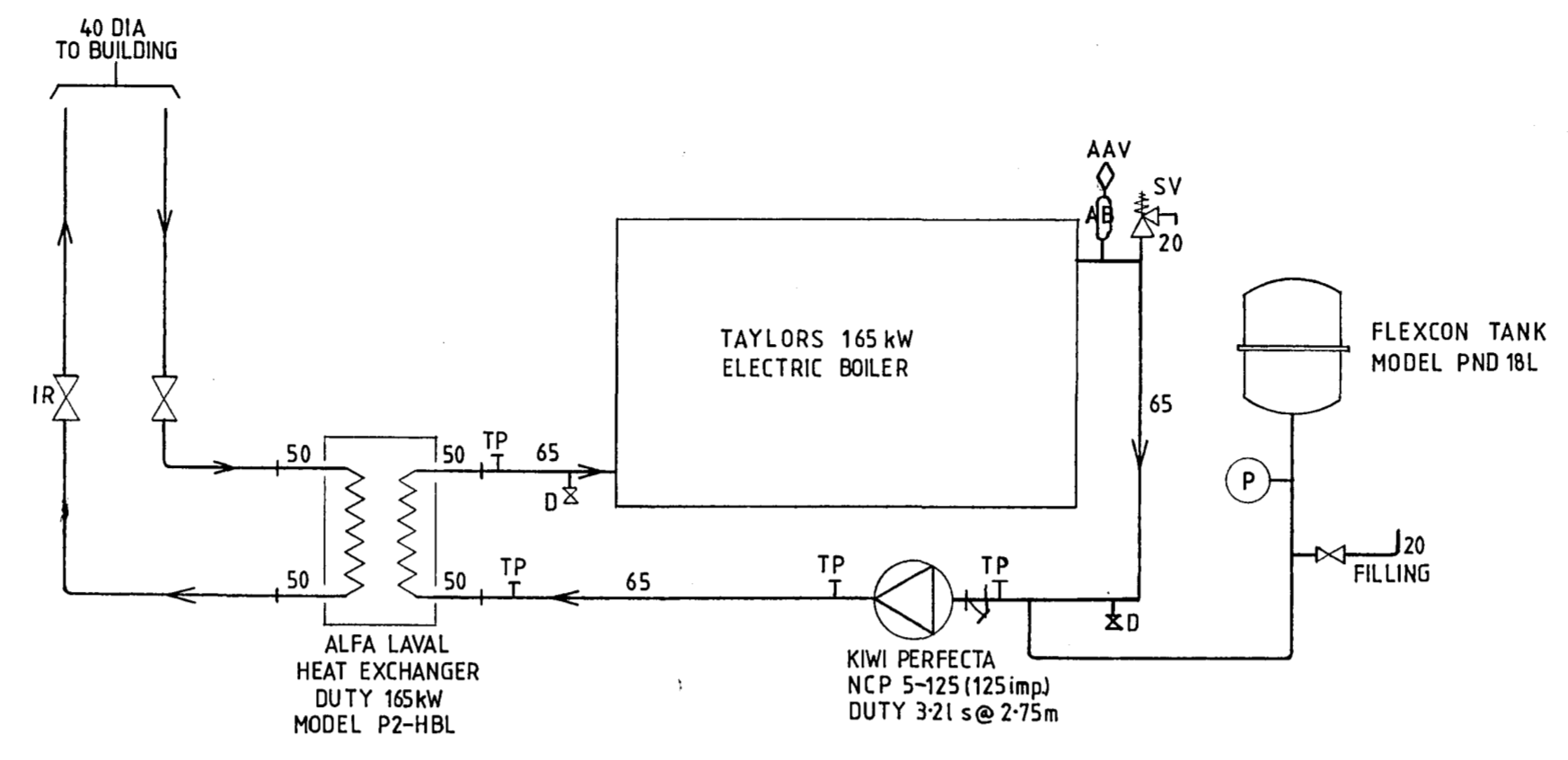
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**CONDENSING WATER & CONDENSATE SCHEMATICS**

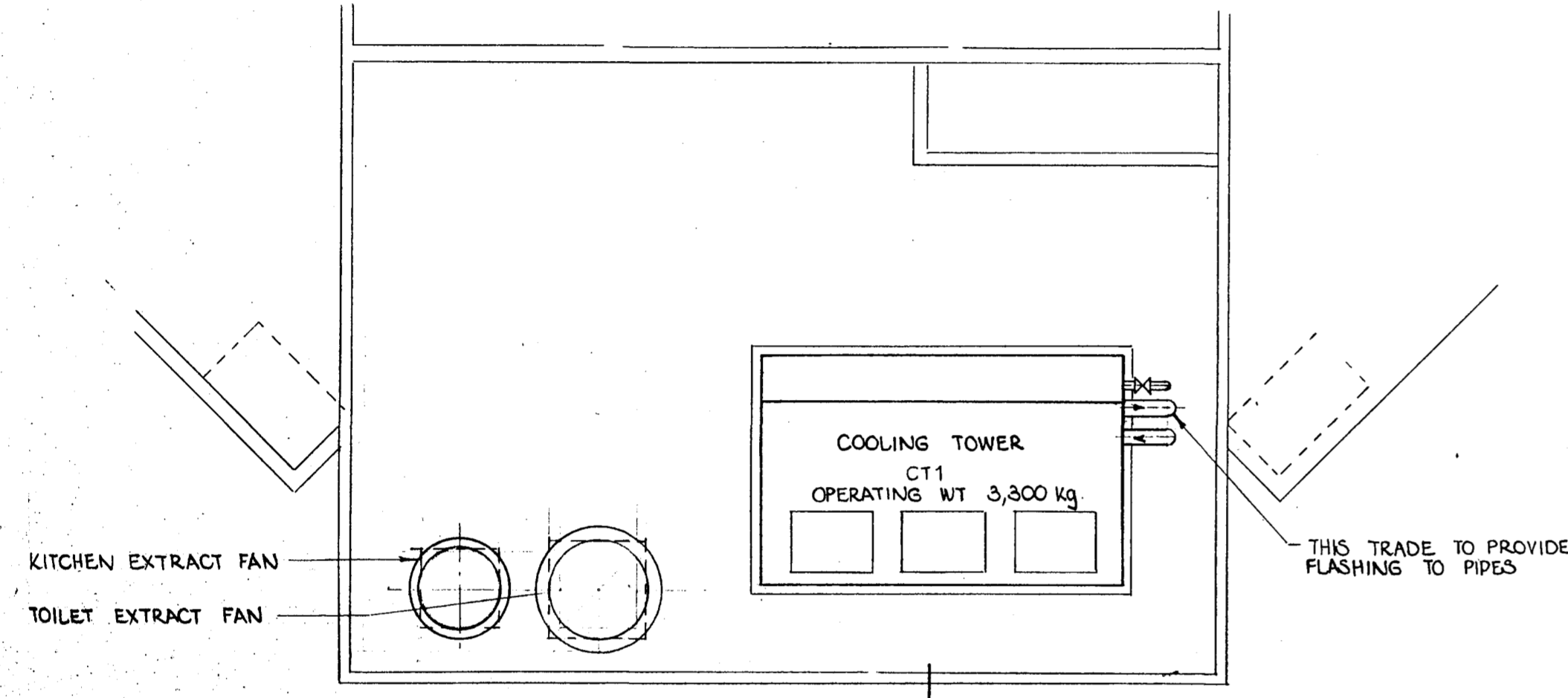
Rev	Amendment	Initials	Date
SCALE	VERIFY ALL DIMENSIONS BEFORE COMMENCING WORK	DRAWING No	
N.T.S		857	
DATE	DRAWN	APPROVED	SHEET No
3 FEB 1988	B.R.C	11/3/88	M8
			OF SHEETS



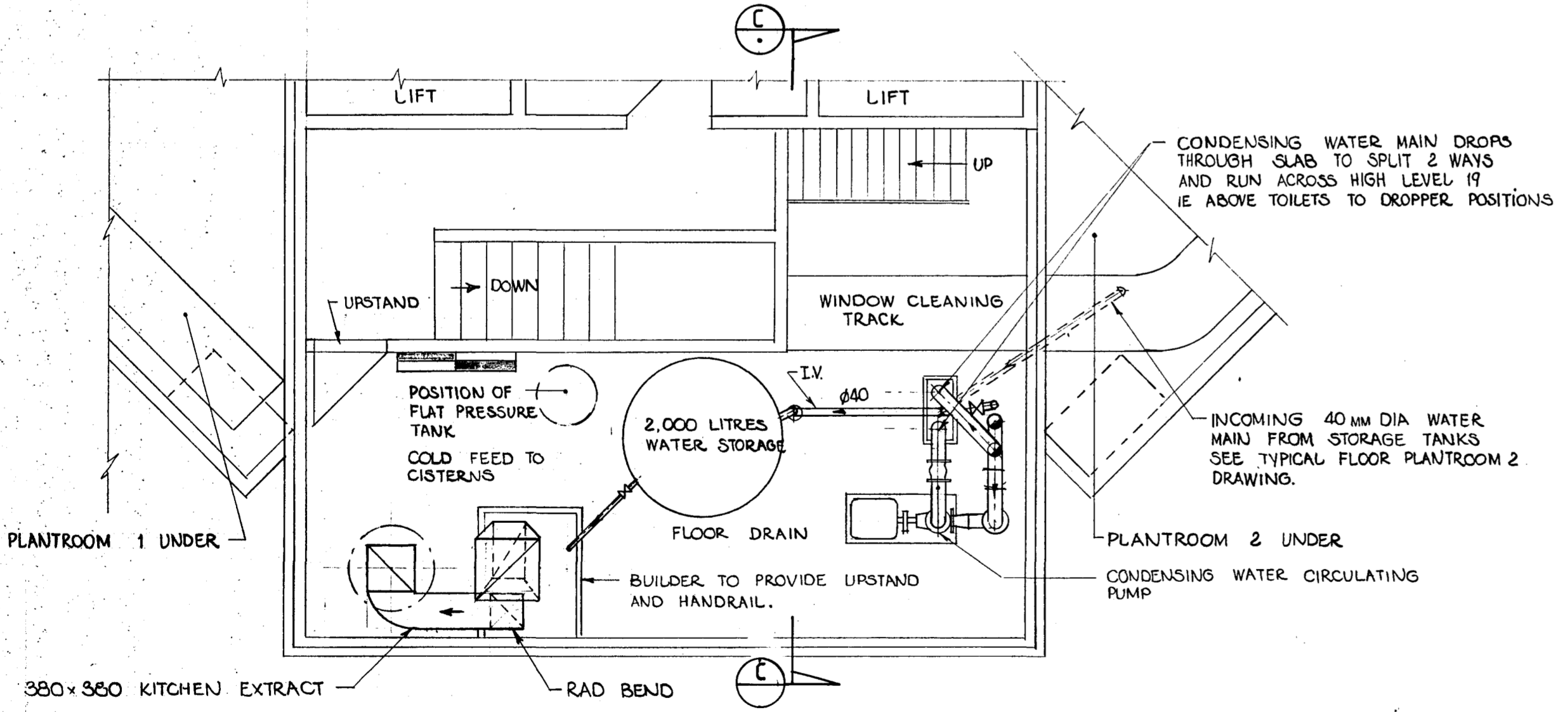
LEVEL 2 PLANTROOM



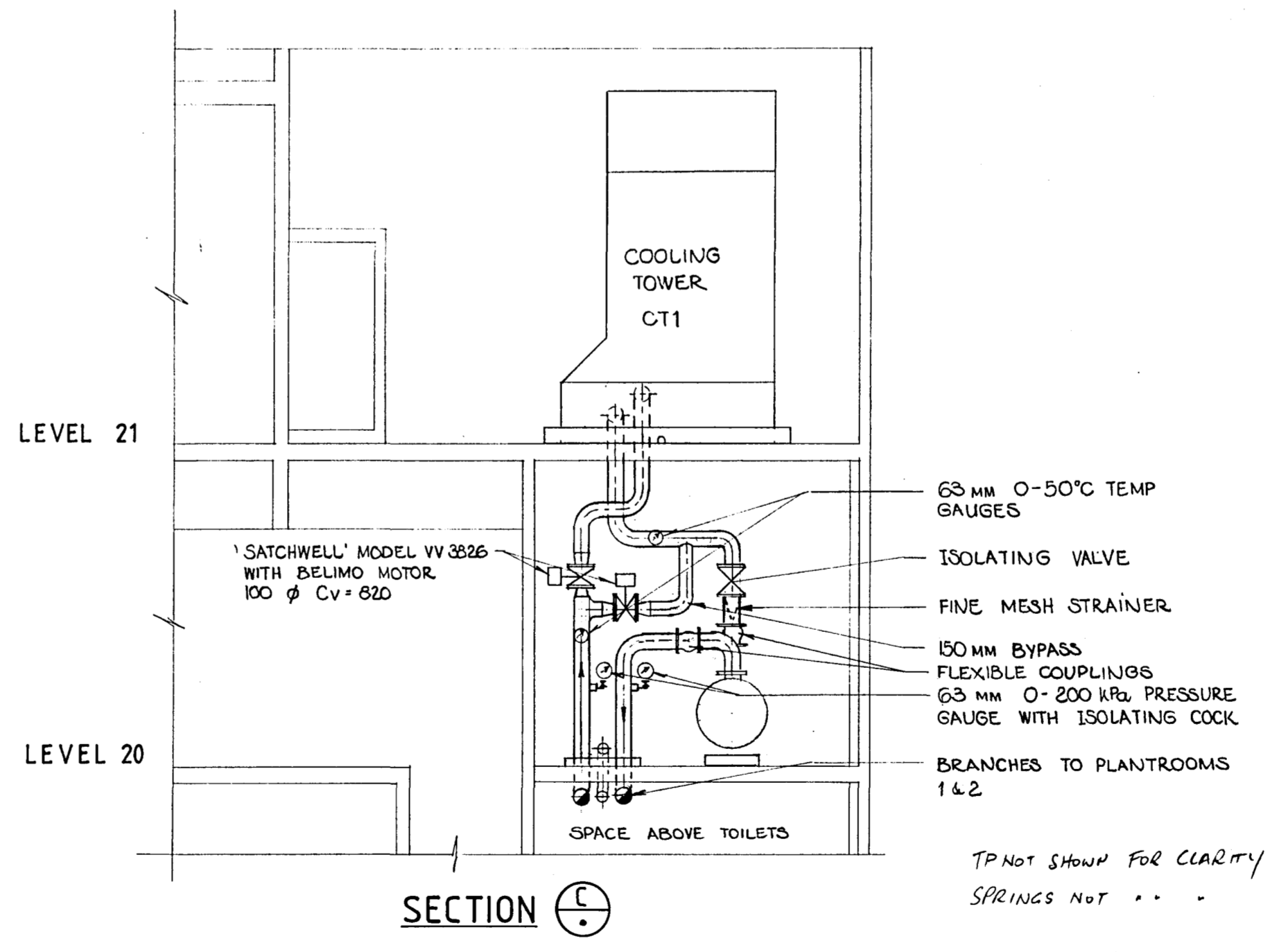
CONDENSING WATER SCHEMATIC  
NOT TO SCALE



LEVEL 21 PLANT



LEVEL 20 PLANTROOM  
UPPER LEVEL PLANT DETAILS



SECTION C-C

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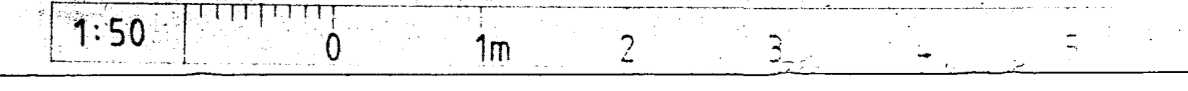
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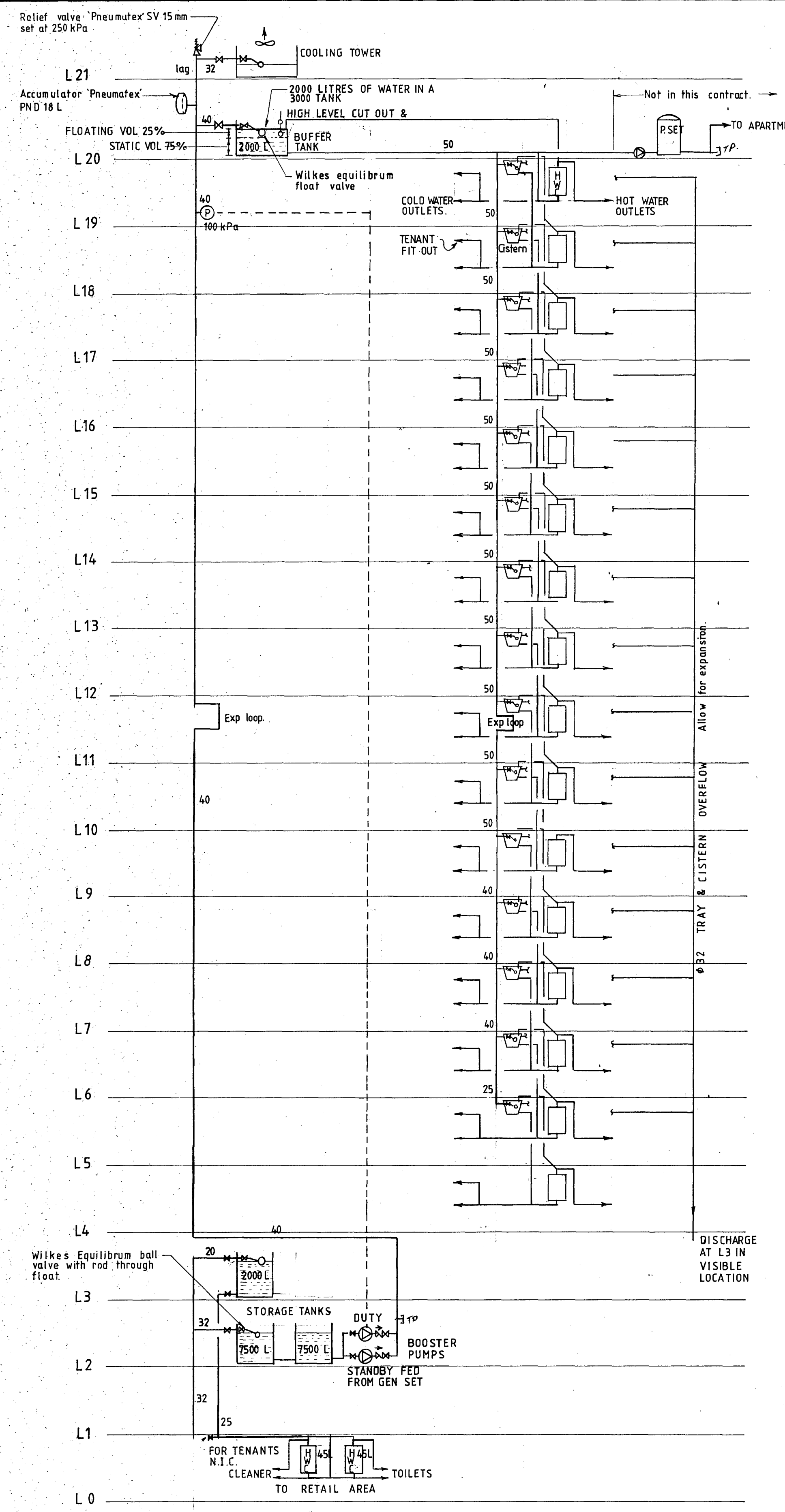
LANDMARK TOWER VICTORIA SQUARE  
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UPPER PLANT ROOM & BOILER ROOM DETAILS

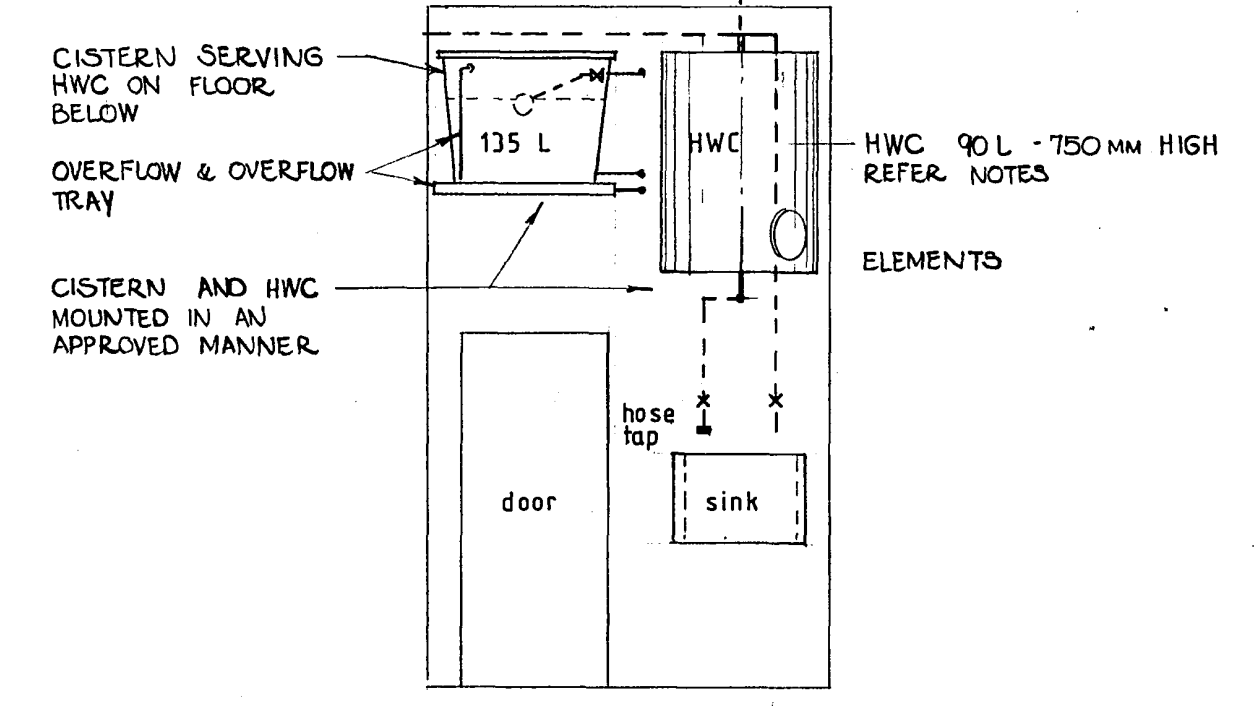
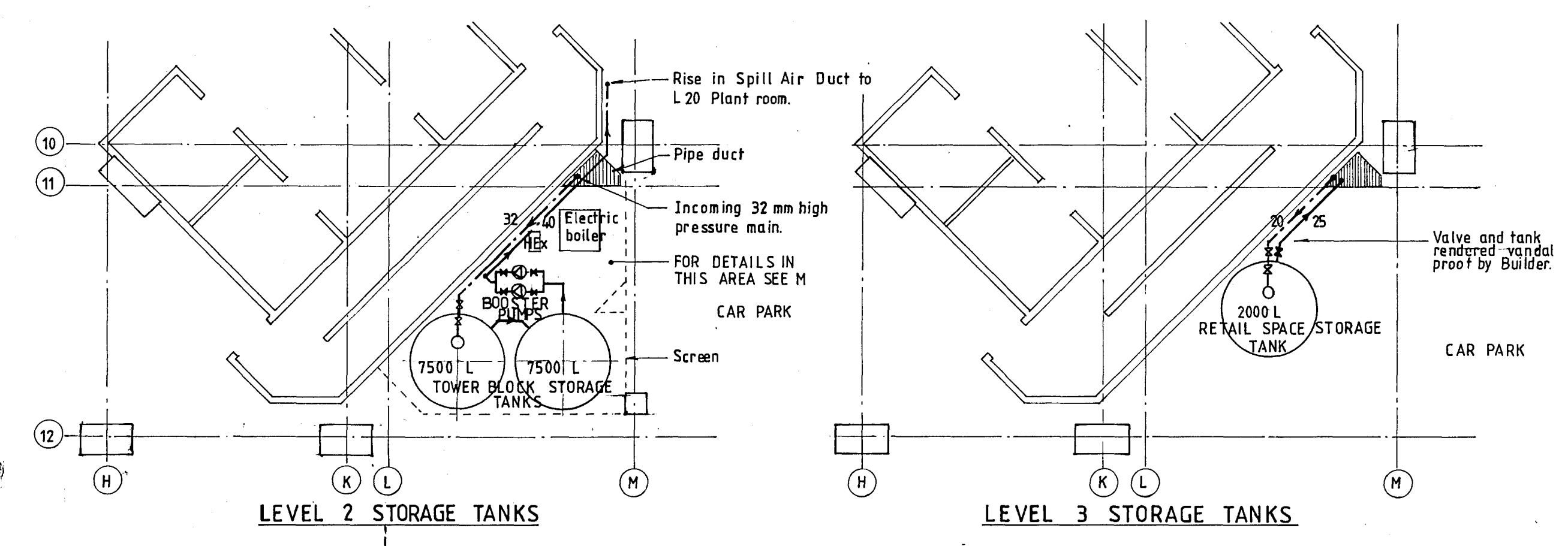
Rev	Amendment	Initials	Date

SCALE 1:50	VERIFY ALL DIMENSIONS BEFORE COMMENCING WORK	DRAWING No <b>857</b>
DATE 17 FEB 1988	DRAWN BRC	APPROVED <i>[Signature]</i> 19/88
		SHEET No M9 OF SHEETS

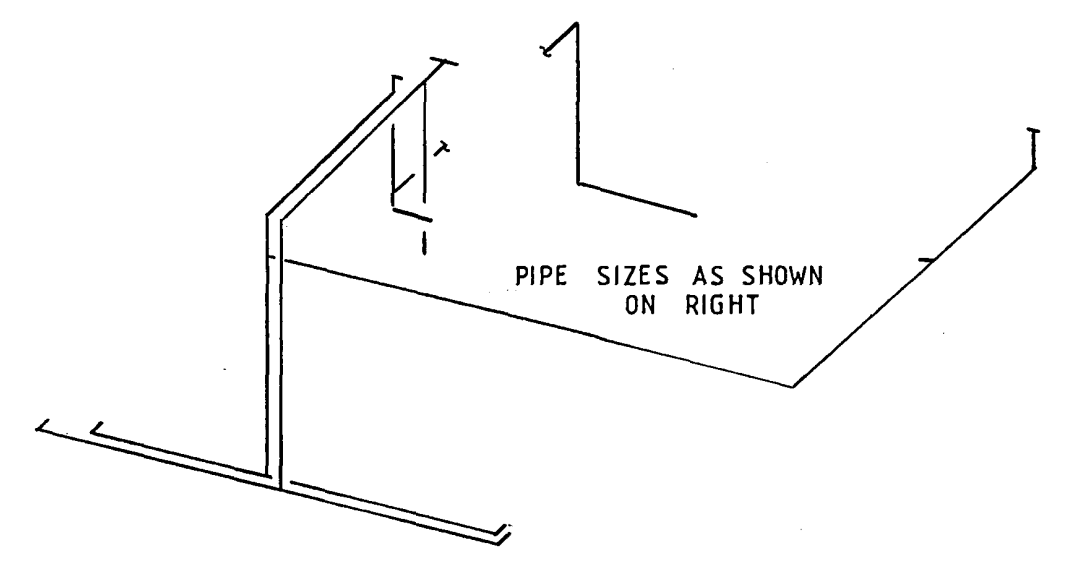




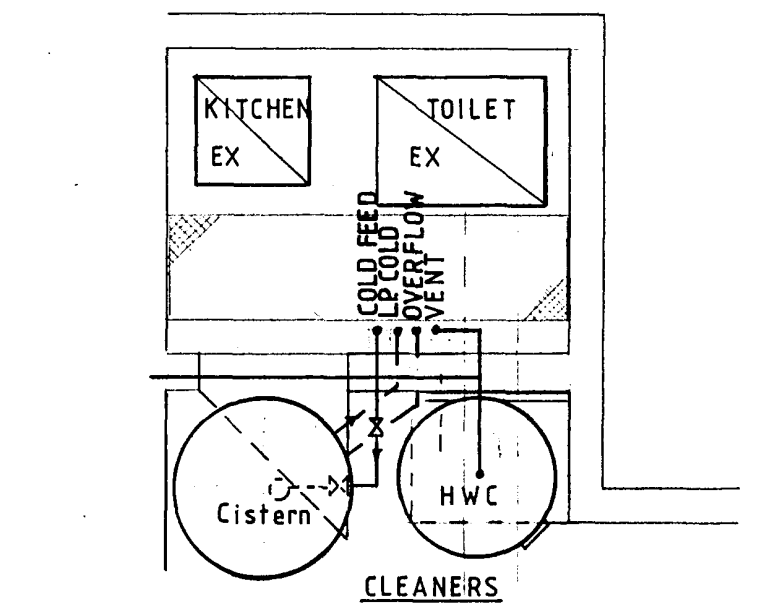
PIPING SCHEMATIC  
NOT TO SCALE



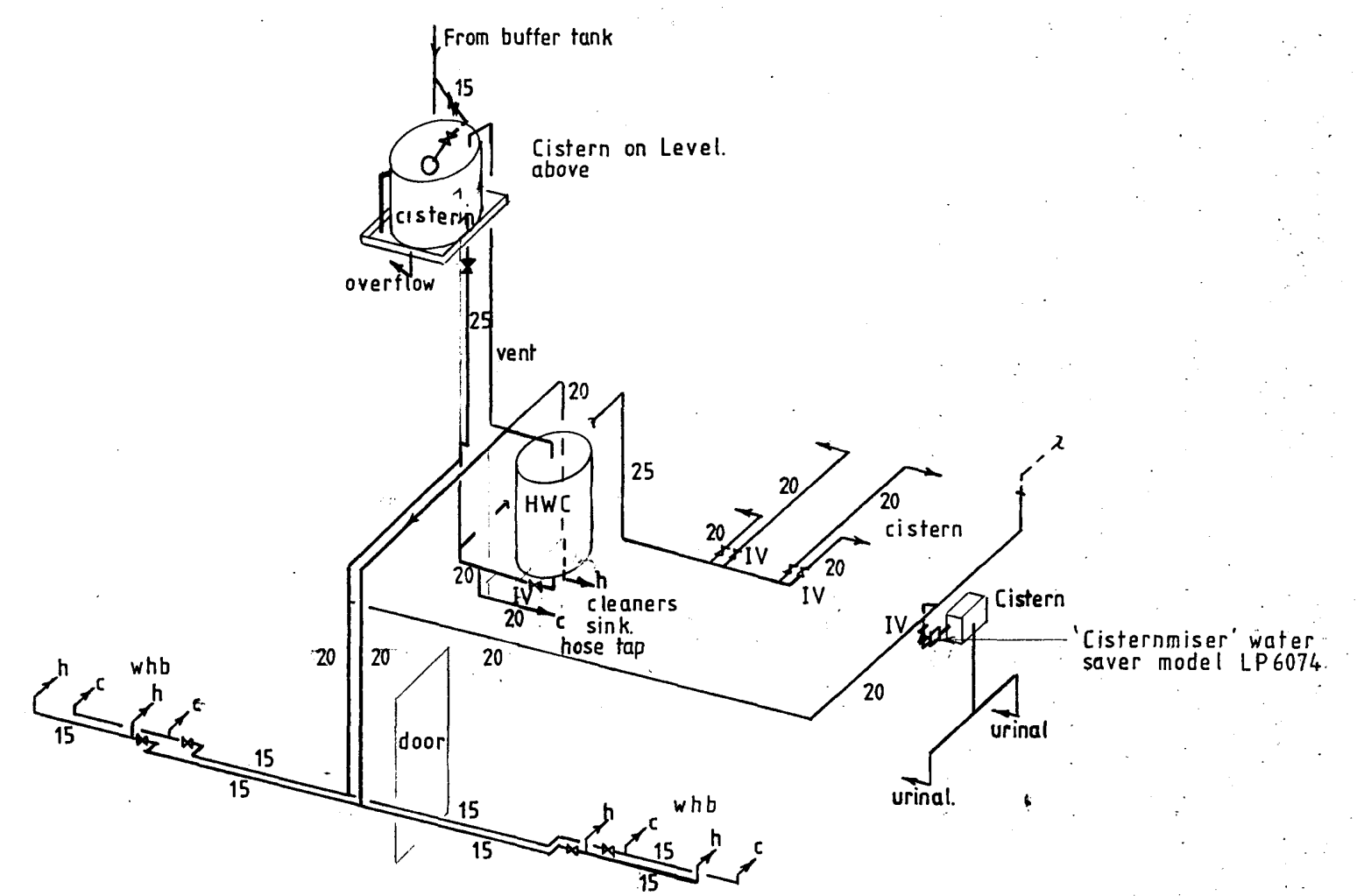
ELEVATION



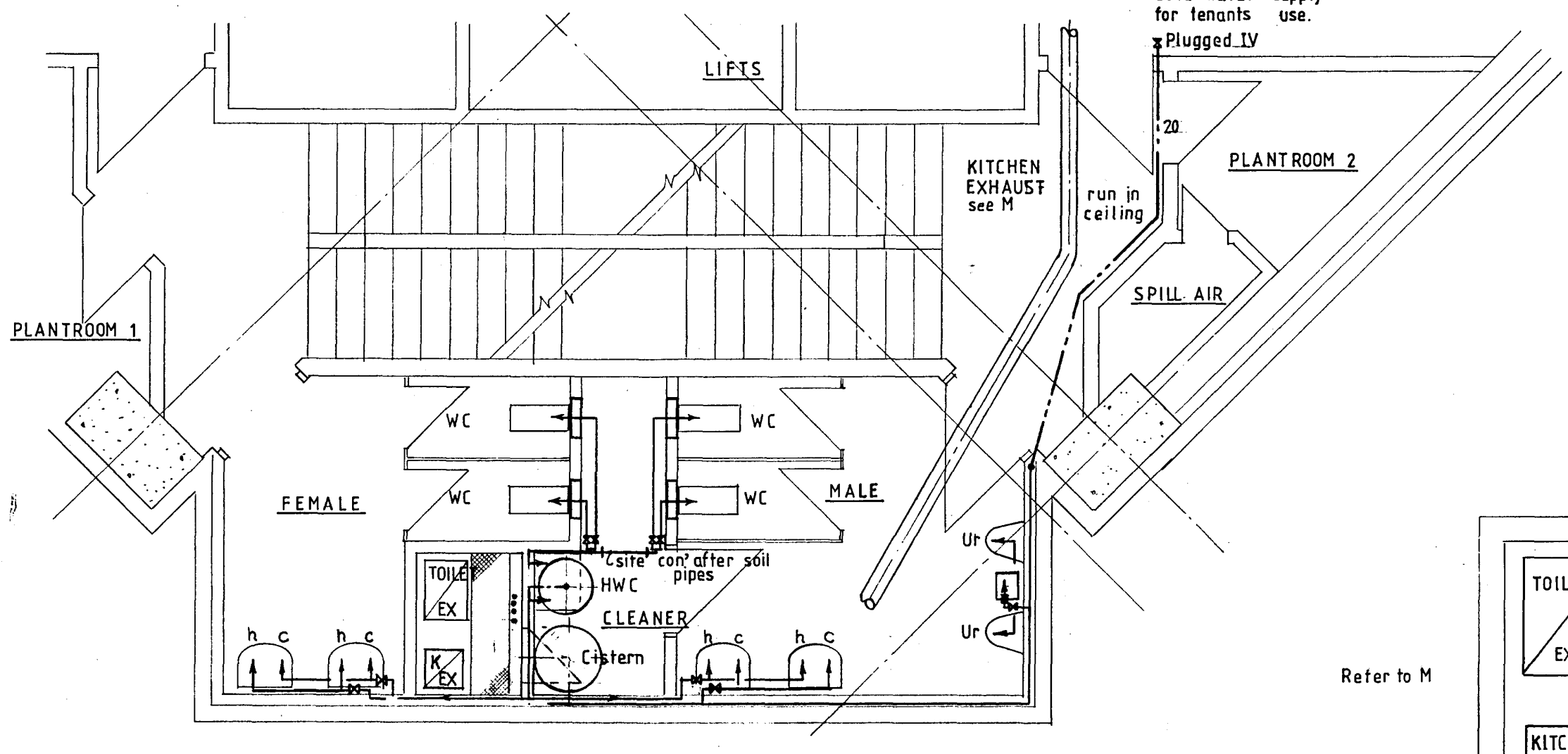
DIMETRIC PROJECTION SHOWING PIPEWORK WITHIN WALL CAVITY  
SCALE : 1:50



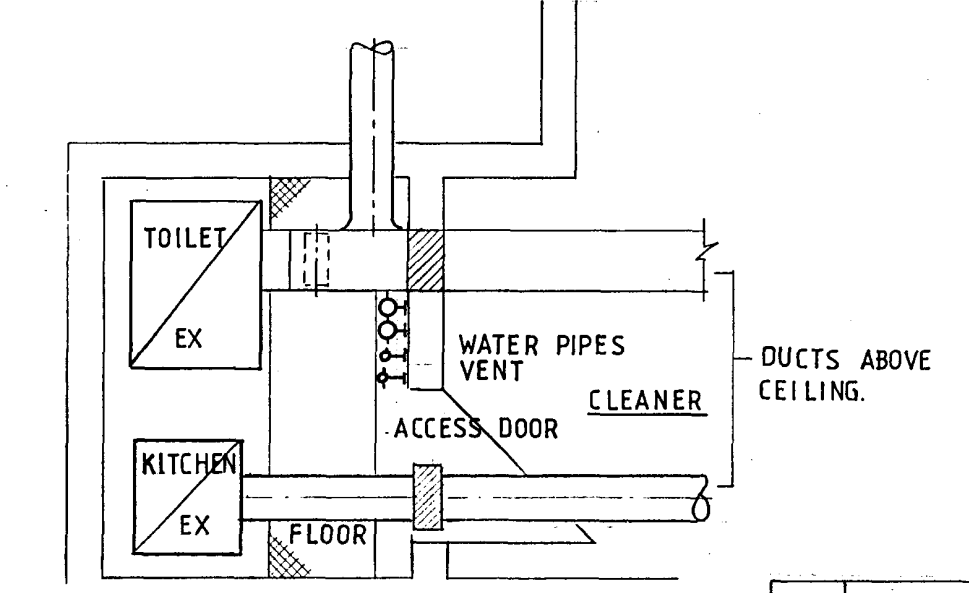
PLAN CISTERN AND HOT WATER CYLINDER  
SCALE : 1 : 25



DIMETRIC PROJECTION OF HOT AND COLD WATER  
SCALE : 1:50



HOT AND COLD WATER RETICULATION TO PREFABRICATED TOILET AREA  
SCALE : 1 : 50



PLAN TOILET & KITCHEN EXHAUST  
SCALE : 1:25

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26 APR 1988  
For Engineer

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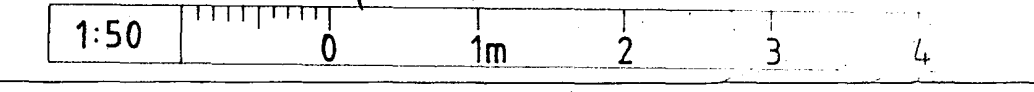
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129 RICCARTON ROAD, (UPSTAIRS) RICCARTON MALL  
CHRISTCHURCH 4. P.O. BOX 8247. PHONE 430-309

**Warren & Mahoney Architects Ltd**  
Christchurch, Wellington & Auckland

LANDMARK TOWER VICTORIA SQUARE  
PAYNTER DEVELOPMENTS LIMITED

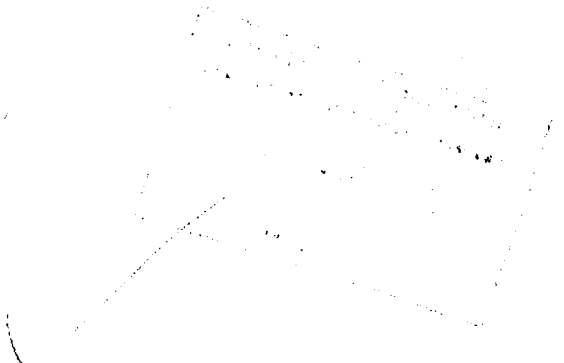
**WATER RETICULATION**

Rev	Amendment	Initials	Date
SCALE 1:50	VERIFY ALL DIMENSIONS BEFORE COMMENCING WORK	DRAWING No <b>857</b>	
DATE 9 2. 88	DRAWN BRC	APPROVED [Signature] EC 1/3/88	SHEET No <b>M10</b>
		OF SHEETS	



①

QTC 3858  
Landsat 4  
1/1/73



1  
2

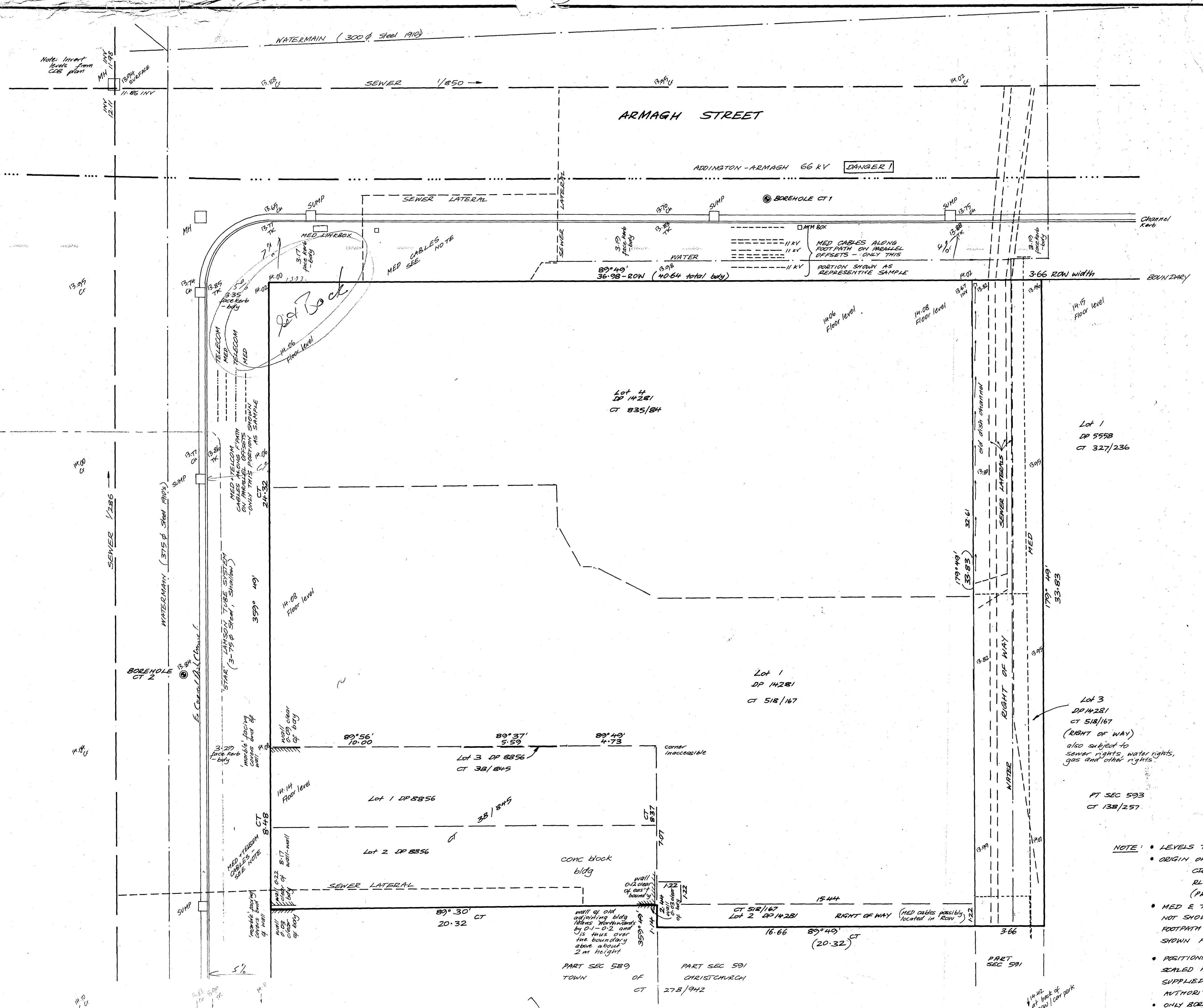
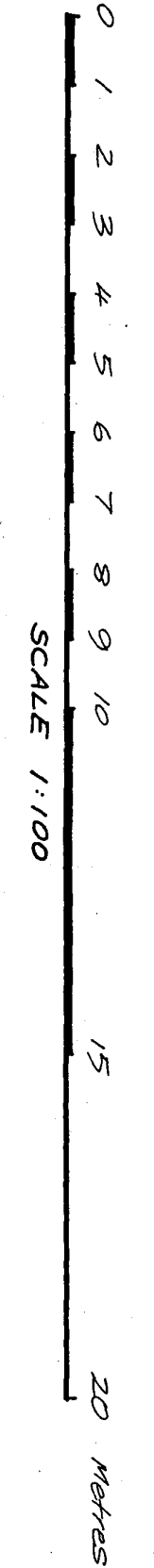
1  
2

VICTORIA SQUARE

COLOMBO STREET

ARMAGH STREET

ALBION



- NOTE:
- LEVELS TO CDB DATUM
  - ORIGIN OF LEVELS: CDB BM 414 RL 15.652 (PROVINCIAL BLDG. STEP)
  - MED & TELCOM CABLES: NOT SHOWN ALL ALONG FOOTPATH - ONLY SAMPLES SHOWN FOR CLARITY
  - POSITIONS OF SERVICES: SCALED FROM PLOTS SUPPLIED BY RELEVANT AUTHORITIES
  - ONLY BORNEHOLES CT 1 & 2 COMPLETED AT TIME OF SURVEY

No.	Date	Amendment	F.B. 1916	L.B. 1916

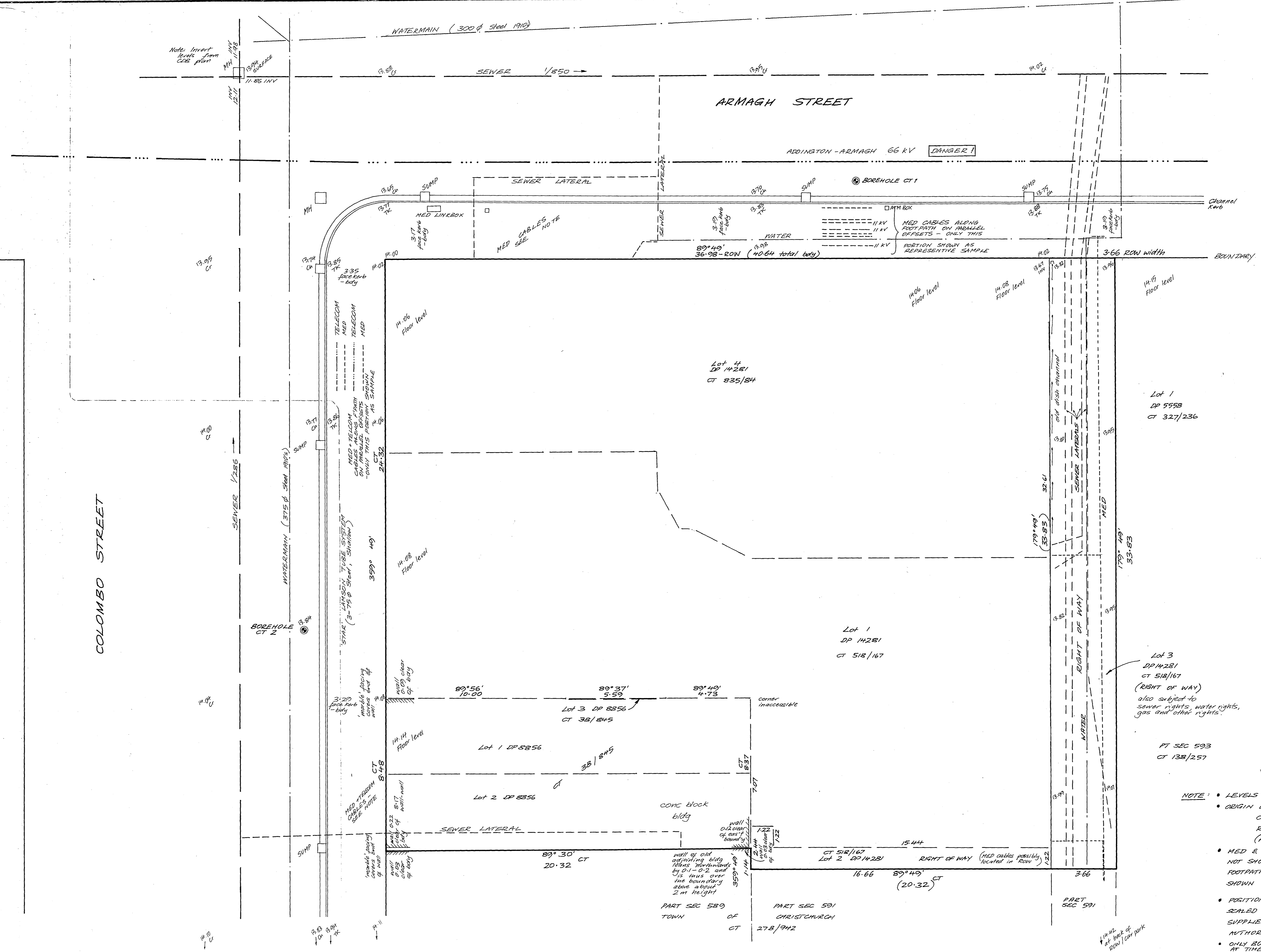
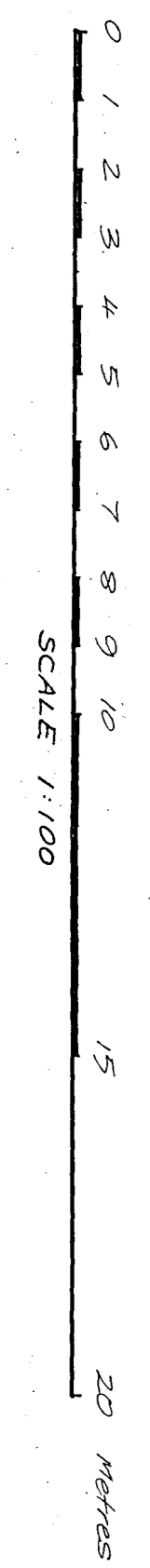
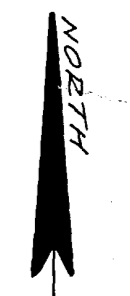
SITE PLAN  
CNR. COLOMBO & ARMAGH STS.

**McCLELLAND, BRANTHWAITE & ASSOCIATES**  
Registered Surveyors & Civil Engineers  
1<sup>st</sup> Level, Amuri Courts  
Cnr. Armagh & Durham Sts. Christchurch 1  
P.O. Box 1061 Telephone 60-821

Also at 113A High St  
RANGIORA  
Telephone 8776

Sheet  
of  
REF  
A 8186s

VICTORIA SQUARE



**NOTE:**

- LEVELS TO CDB DATUM
- ORIGIN OF LEVELS: CDB BM A44 RL 15.652 (PROVINCIAL BLDG. STEP)
- MED & TELCOM CABLES NOT SHOWN ALL ALONG FOOTPATH - ONLY SAMPLES SHOWN FOR CLARITY
- POSITIONS OF SERVICES SCALED FROM PLOTS SUPPLIED BY RELEVANT AUTHORITIES
- ONLY BOREHOLES CT1, CT2 COMPLETED AT TIME OF SURVEY

No.	Date	Amendment	F.B. 1966	L.B. 1966 (REV)
			Surveyed	1966
			Designed	12/12/87
			Traced	
			Checked	

**SITE PLAN**  
**CNR. COLOMBO & ARMAGH STS.**

**McCLELLAND, BRANTHWAITE & ASSOCIATES**  
Registered Surveyors & Civil Engineers  
1st Level Amuri Courts  
Cnr Armagh & Durham Sts Christchurch 1  
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Also at 113A High St  
RANGIORA  
Telephone 8776

Copyright of this drawing vested in McClelland, Branthwaite & Assoc. SCALE 1:100

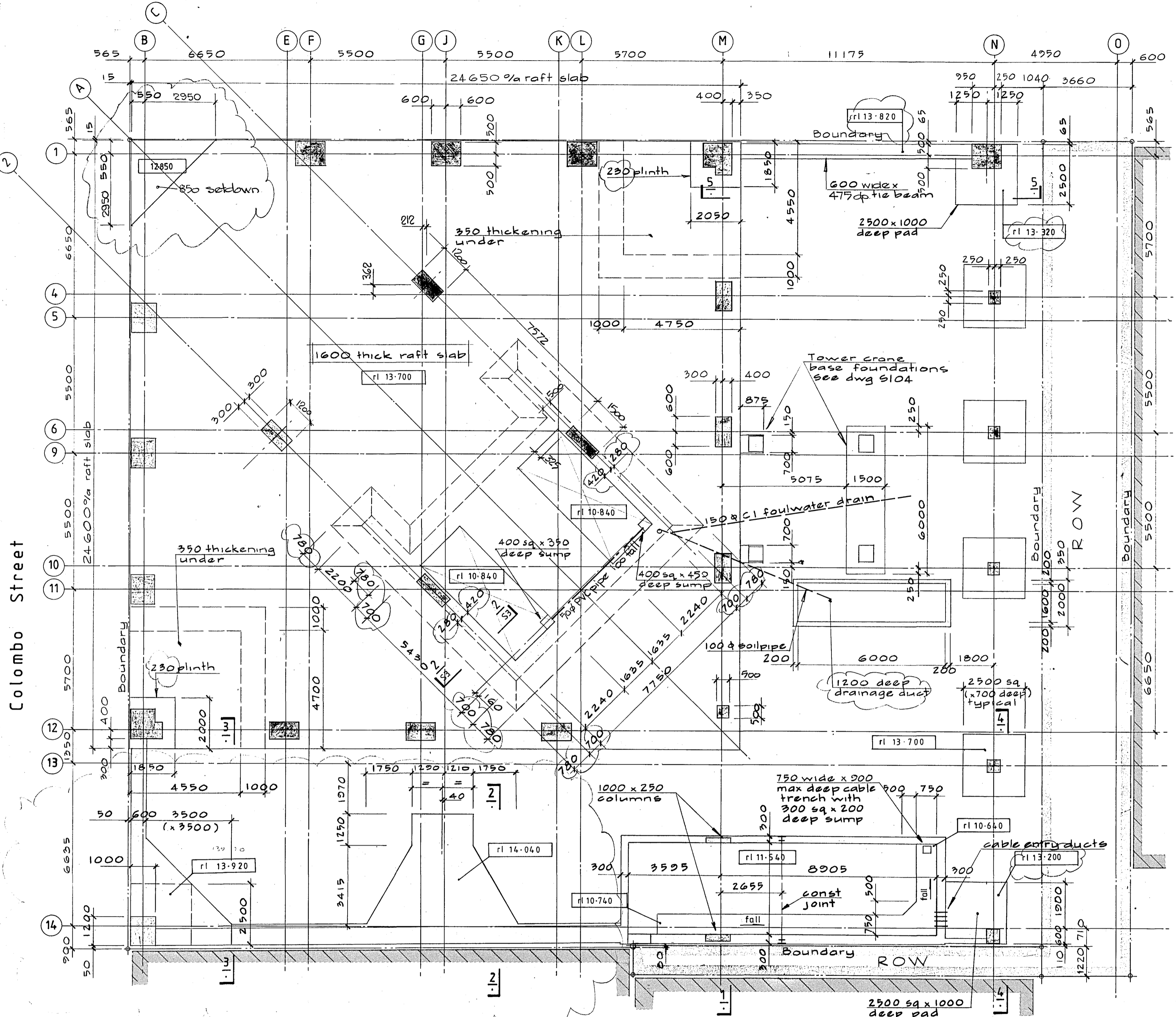
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REF.	A 8186 <sub>s</sub>	

✓ 1/ 25  
✓ 2/ 25

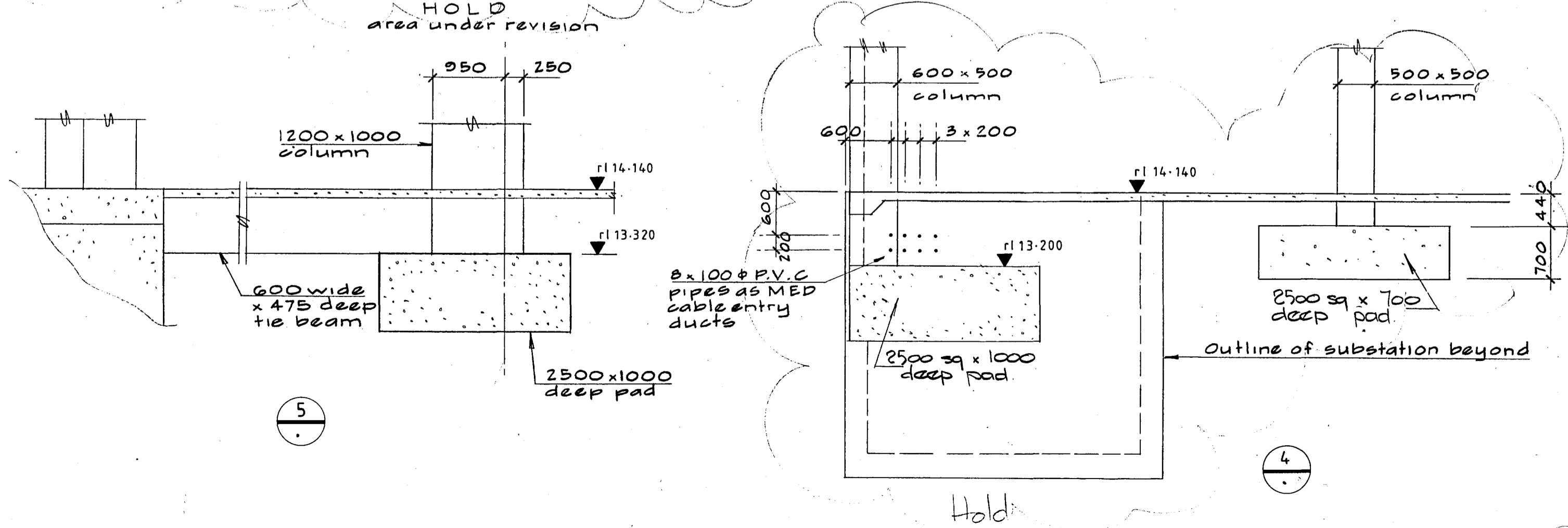
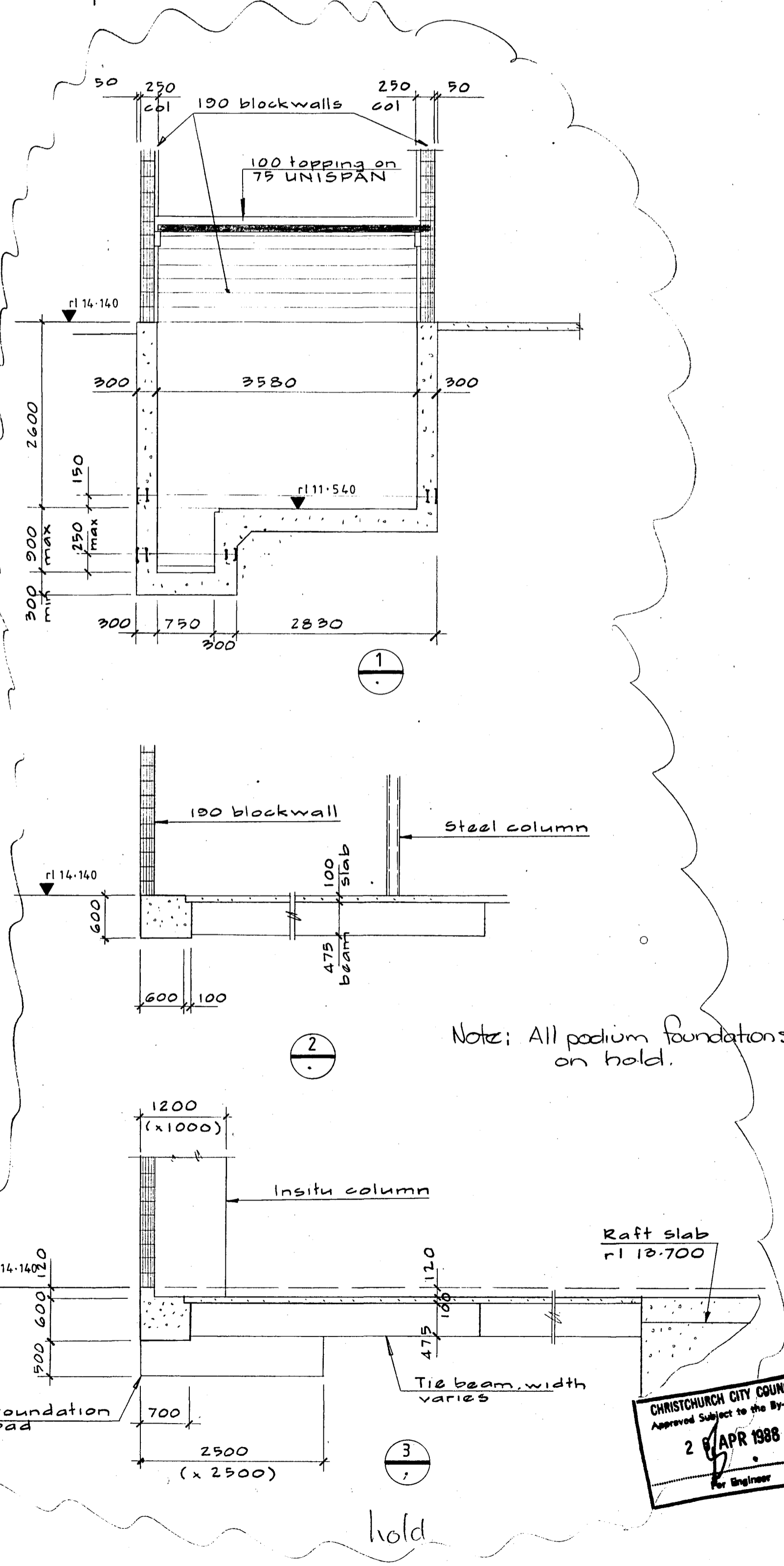
43  
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780  
375  
2625

Armagh Street



foundation reinforcing:  
 RAFT SLAB - see drawings S100 to S103.  
 CRANE BASE - see drawing S104.  
 PODIUM & SUBSTATION - see drawing S111.  
 CAST-IN WATER & SEWER PIPE - see arch dwgs



ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

4	6	7	8	9	10	11	12	13	14	15	17	31	45
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Rev	Date	Amendments
1	5/2/88	ISSUE 1
2	22/2/88	FOUNDATION PERMIT
3	4/3/88	PERMIT
A	29/3/88	CONSTRUCTION raft slab & crane base
B	15/4/88	850 SETDOWN AT 1/B

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HOLMES CONSULTING GROUP  
STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

ROBERT JONES HOUSE  
CHRISTCHURCH

DRAWN: G. K. R. SCALE: 1:100  
APPROVED: [Signature]

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Law  
2 APR 1988  
[Signature]  
SHEET TITLE: FOUNDATION CARCASS PLAN

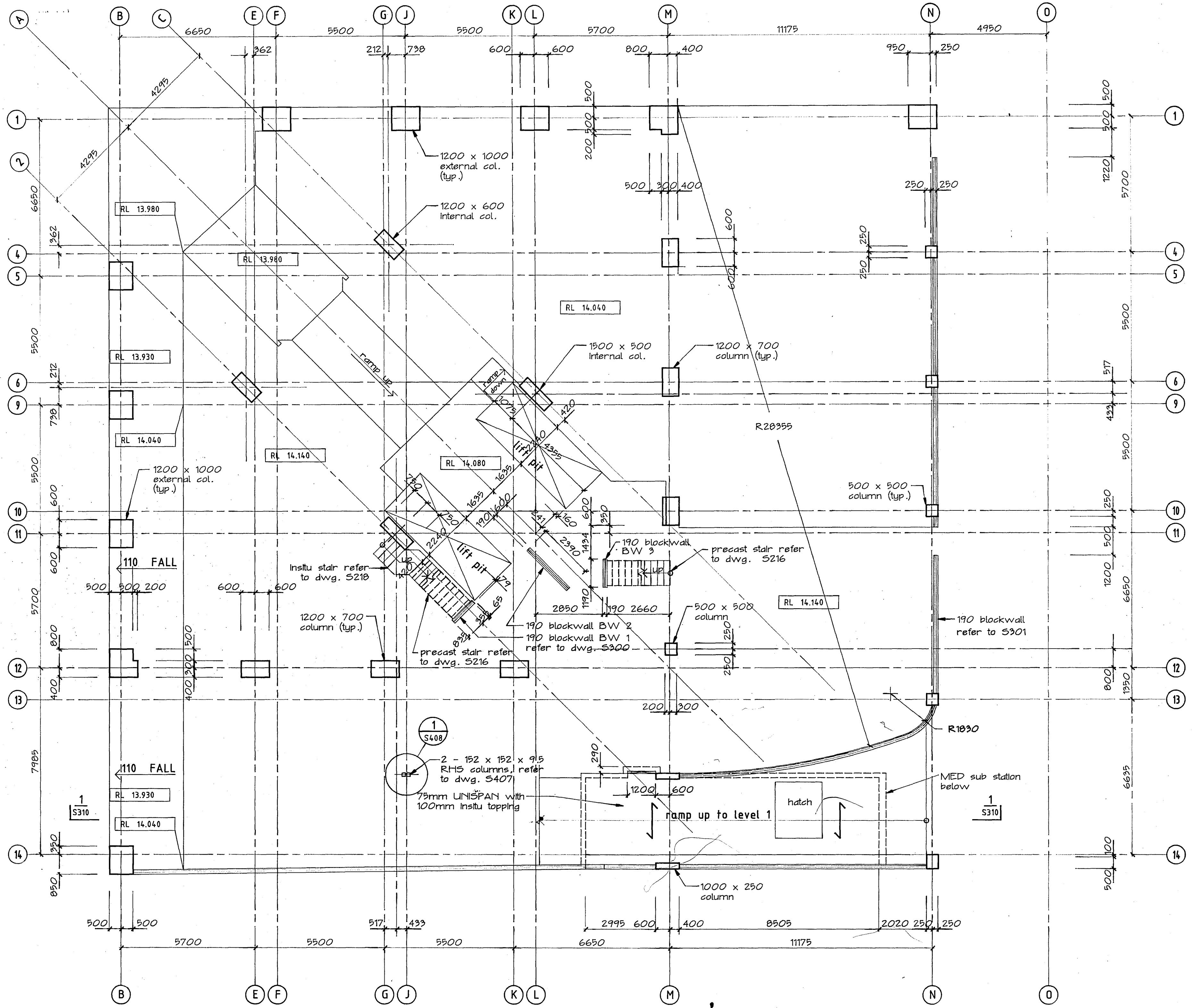
JOB NO: 2281 SHEET NO: S2 REV: B



ALL DIMONS TO BE VERIFIED ON SITE BEFORE ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number														
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Rev.	Date	Amndmet
1	22/2/88	foundation permit
2	4/3/88	part



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HOLMES CONSULTING GROUP STRUCTURAL AND CIVIL ENGINEERS Christchurch, Wellington, New Plymouth, Auckland

# LANDMARK TOWER CHRISTCHURCH

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
For Engineer

DRAWN: H.A.O. SCALE: 1:  
APPROVED: R.A.P.

SHEET TITLE:  
FLOOR PLANS  
LEVEL 0  
CARCASS

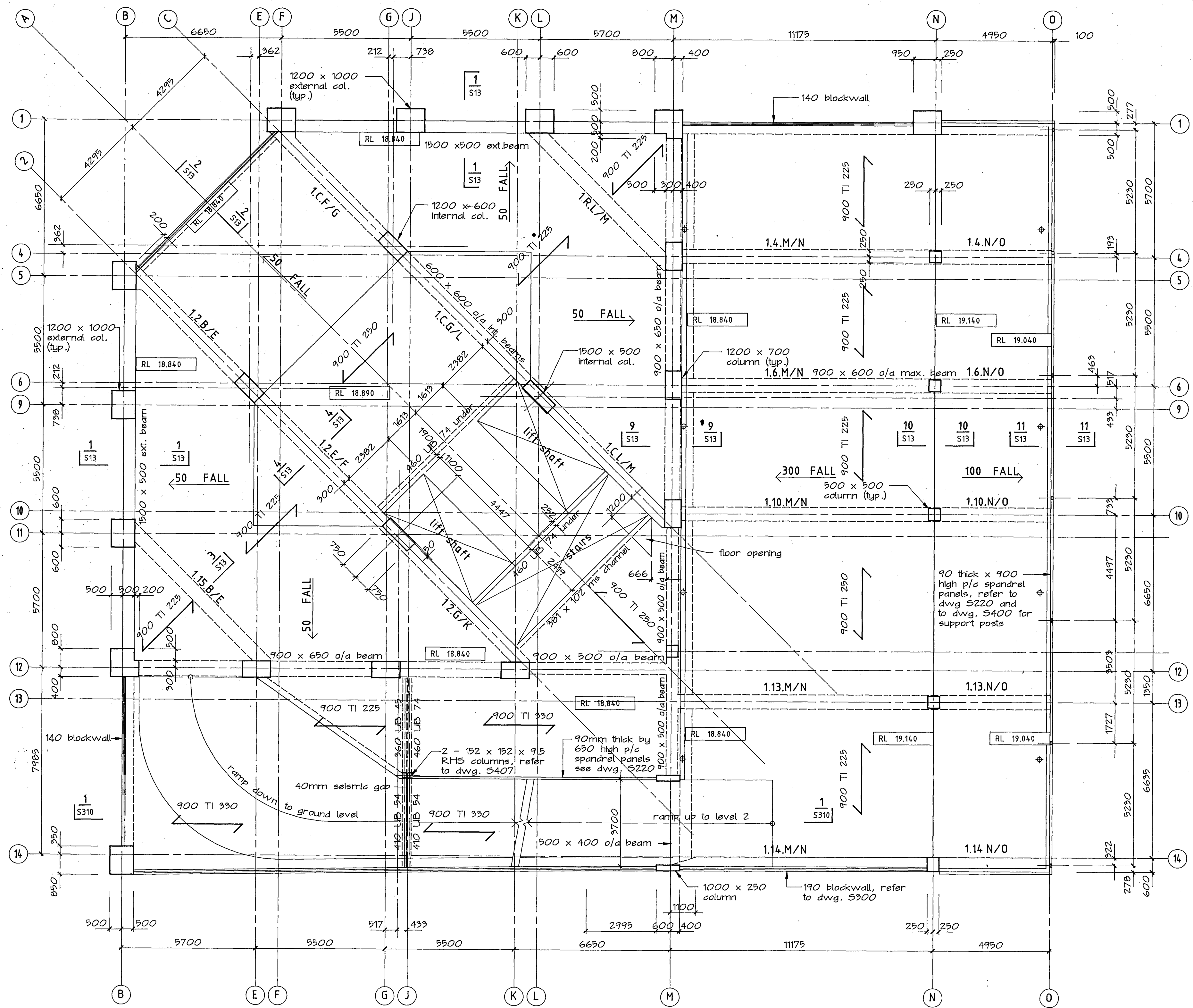
JOB NO: 2281 SHEET NO: S4 REV: 1

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

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Rev.	Date	Amendment
1	22/2/00	foundation permit
2	4/3/00	permit



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 Christchurch, Wellington, New Plymouth, Auckland

LANDMARK TOWER  
 CHRISTCHURCH

CHRISTCHURCH CITY COUNCIL  
 Approval Subject to the By-Laws  
 26 APR 1988  
 For Engineer

DRAWN: H.A.O. SCALE: 1:100  
 APPROVED: R.A.P.

SHEET TITLE:  
 FLOOR PLANS  
 LEVEL 1  
 CARCASS

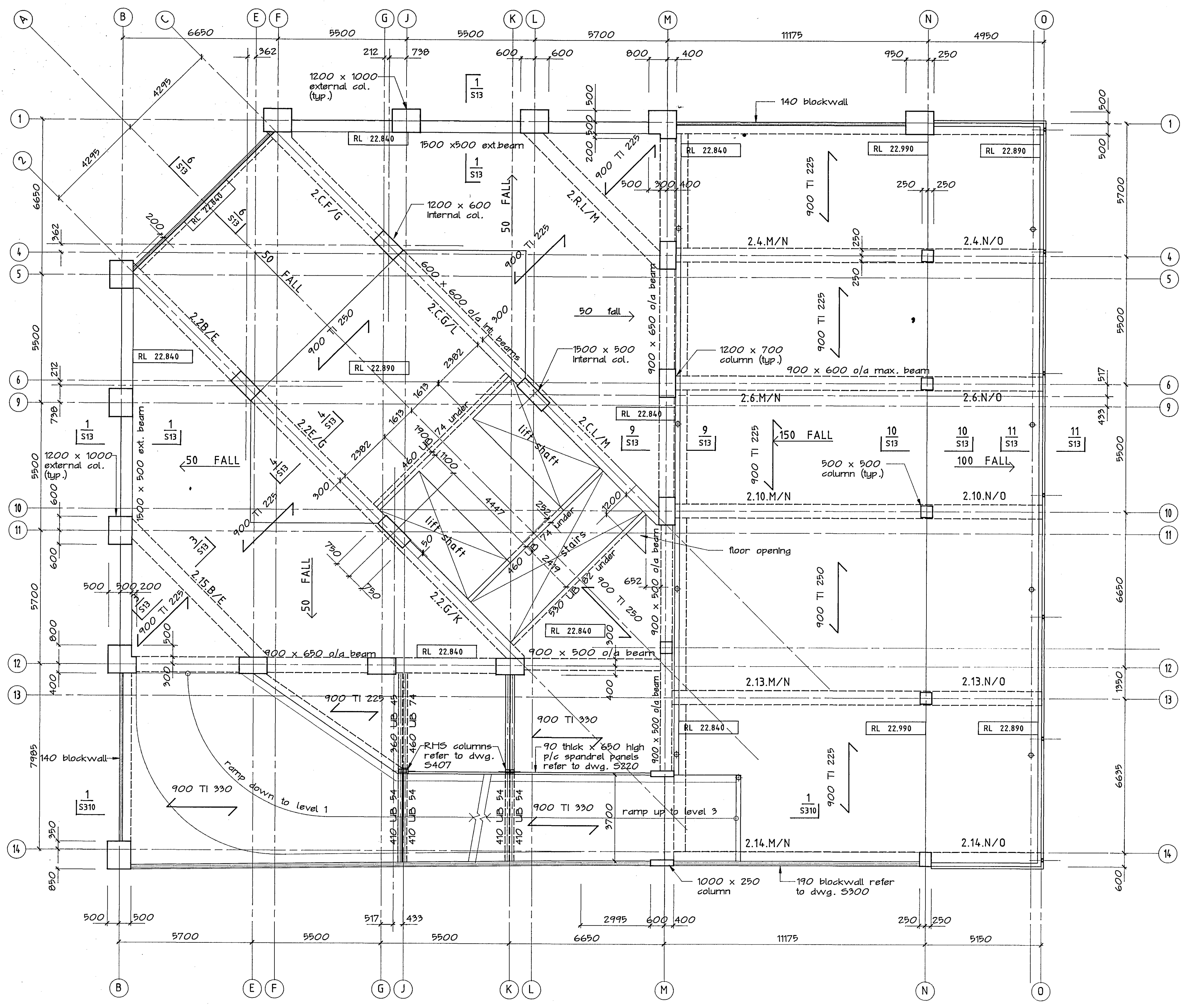
JOB NO: 2281 SHEET NO: S5 REV: 2

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

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Rev.	Date	Amendment
1	22/2/00	foundation permit
2	4/3/00	permit



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**LANDMARK TOWER**  
  
**CHRISTCHURCH**

CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
**26 APR 1988**  
 For Engineer

DRAWN: H.A.O SCALE: 1:100  
 APPROVED: R.E.P

SHEET TITLE:  
 FLOOR PLANS  
 LEVEL 2  
 CARCASS

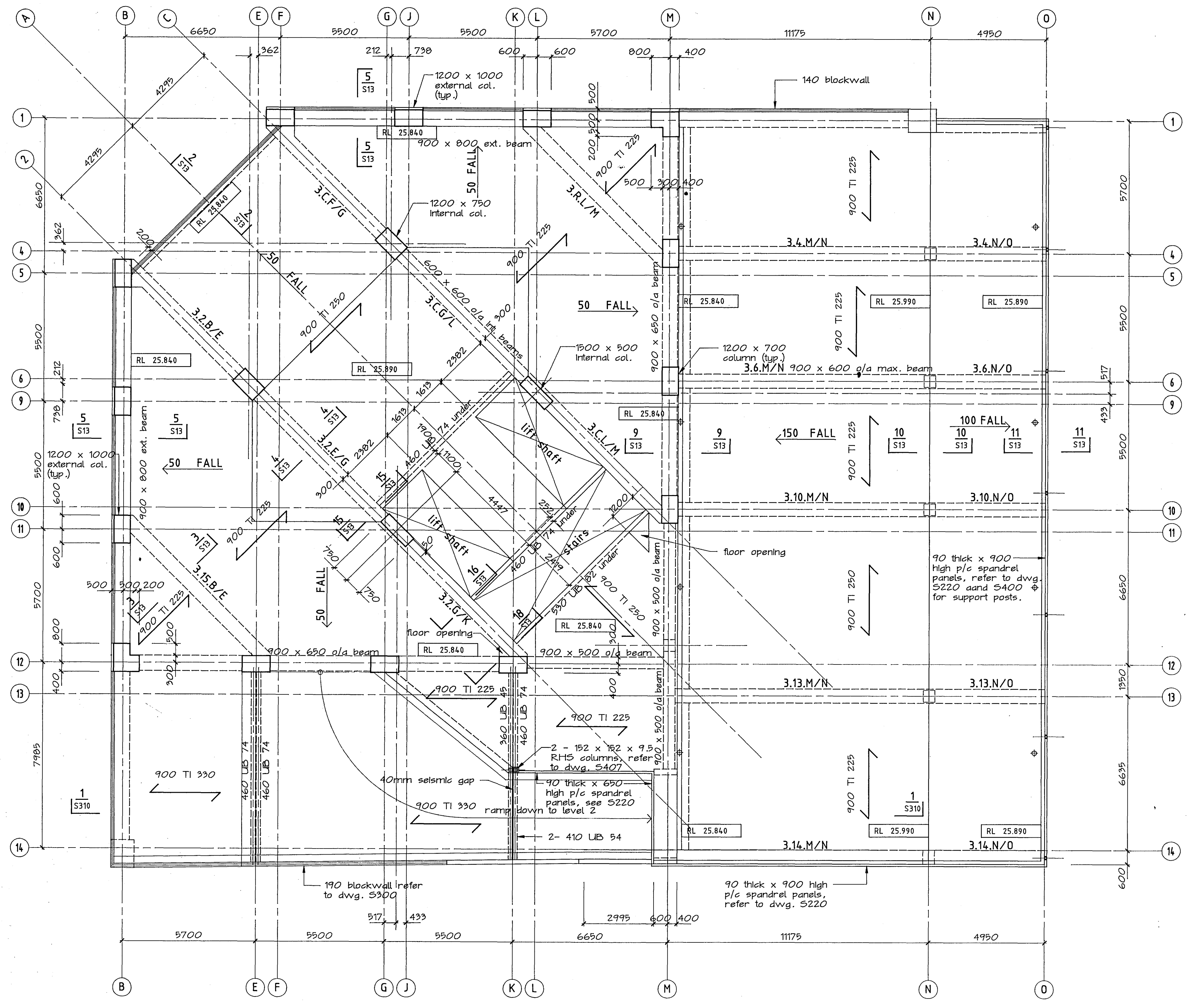
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ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

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Rev.	Date	Amendment
1	22/2/00	foundation permit
2	4/9/00	permit



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# LANDMARK TOWER CHRISTCHURCH

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
2 APR 1988  
Per Engineer

DRAWN: H.A.O. SCALE: 1:100  
APPROVED: [Signature]

SHEET TITLE:  
FLOOR PLANS  
LEVEL 3  
CARCASS

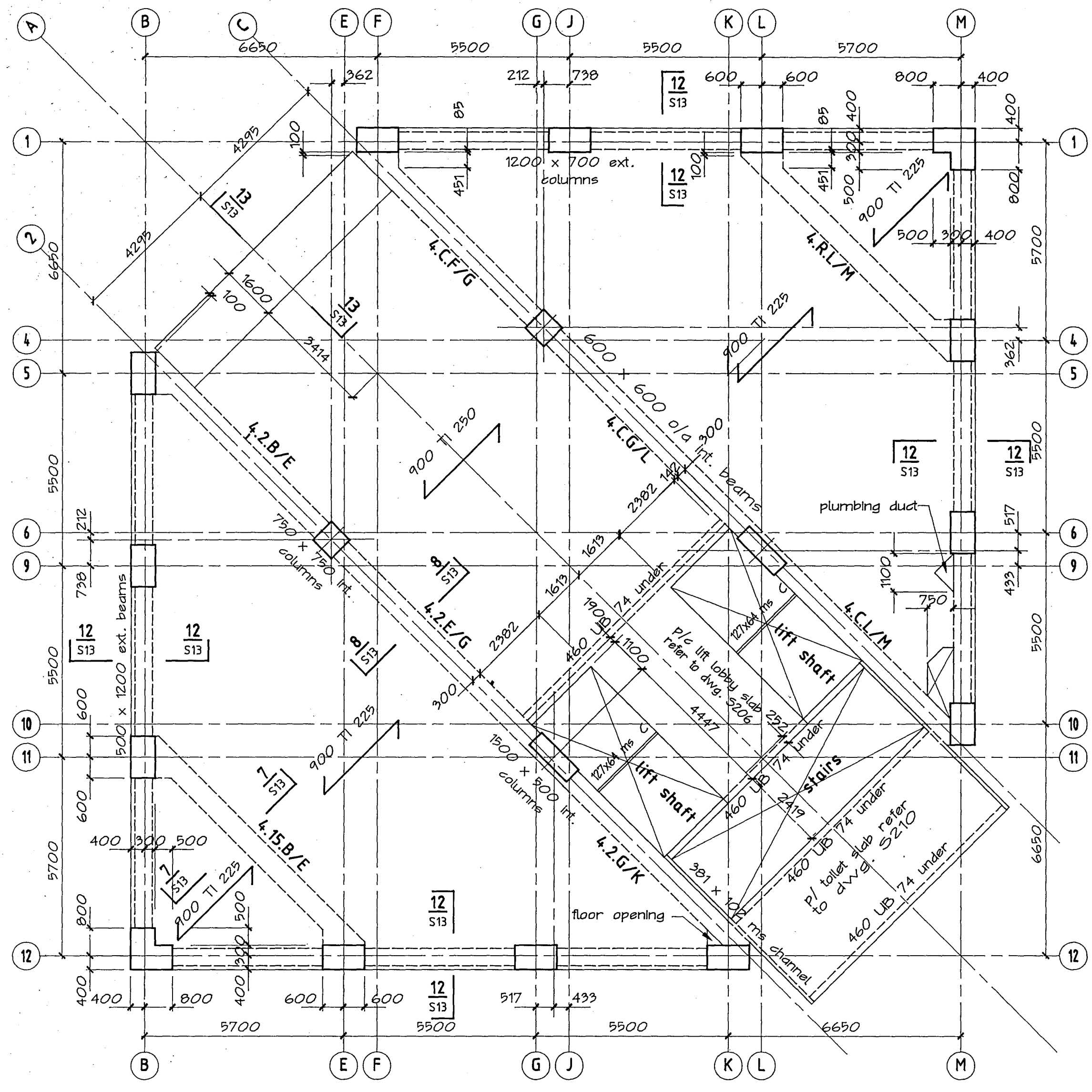
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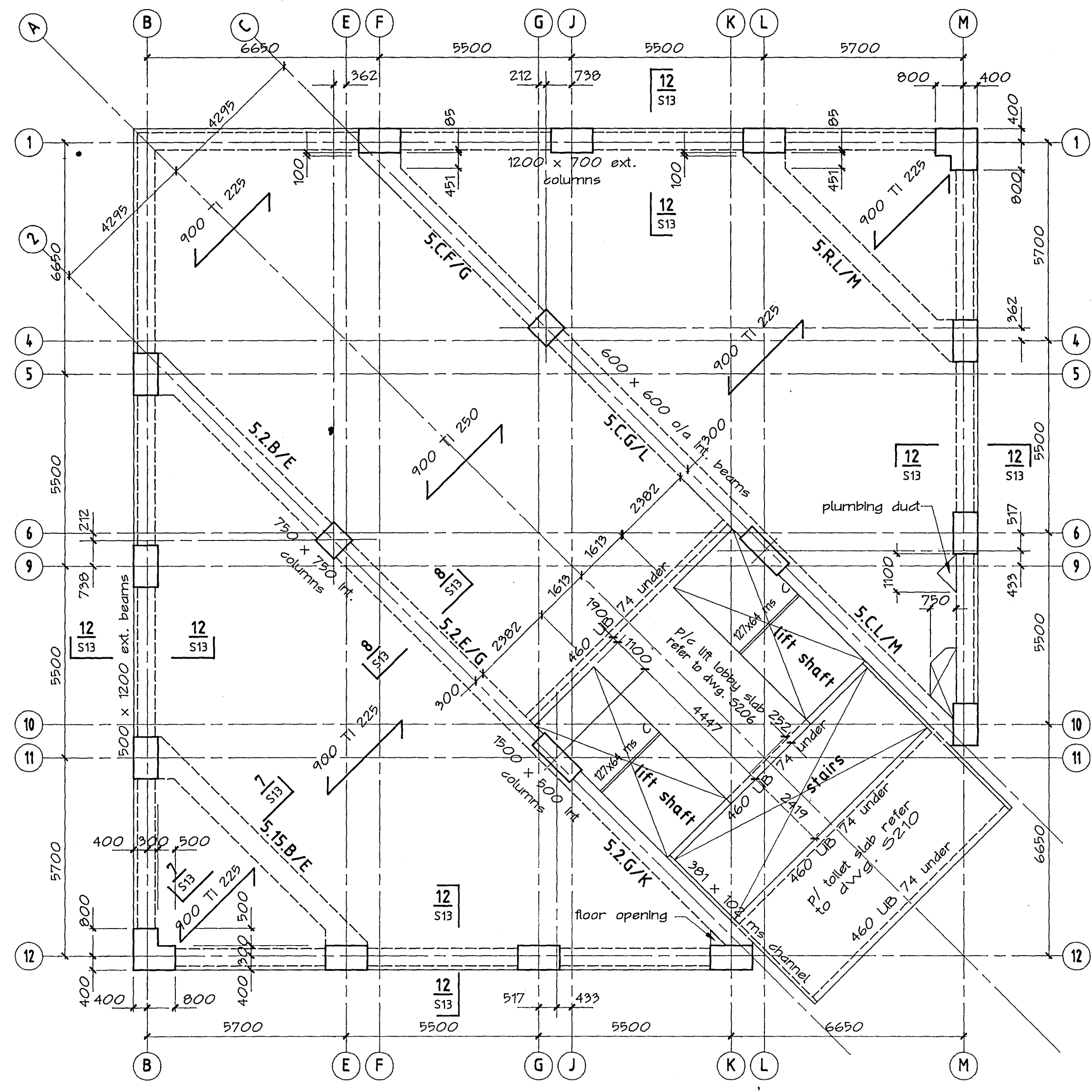
For package number

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Rev.	Date	Amendment
1	22/2/00	foundation permit
2	4/9/00	permit



plan level 4



NOTE: p/c beam call up shown refers to level 5 only

plan levels 5 & 6

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LANDMARK TOWER  
CHRISTCHURCH

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
For Engineer

DRAWN: H.A.O. SCALE: 1:100  
APPROVED:

SHEET TITLE:  
FLOOR PLANS  
LEVEL 4 TO 6  
CARCASS

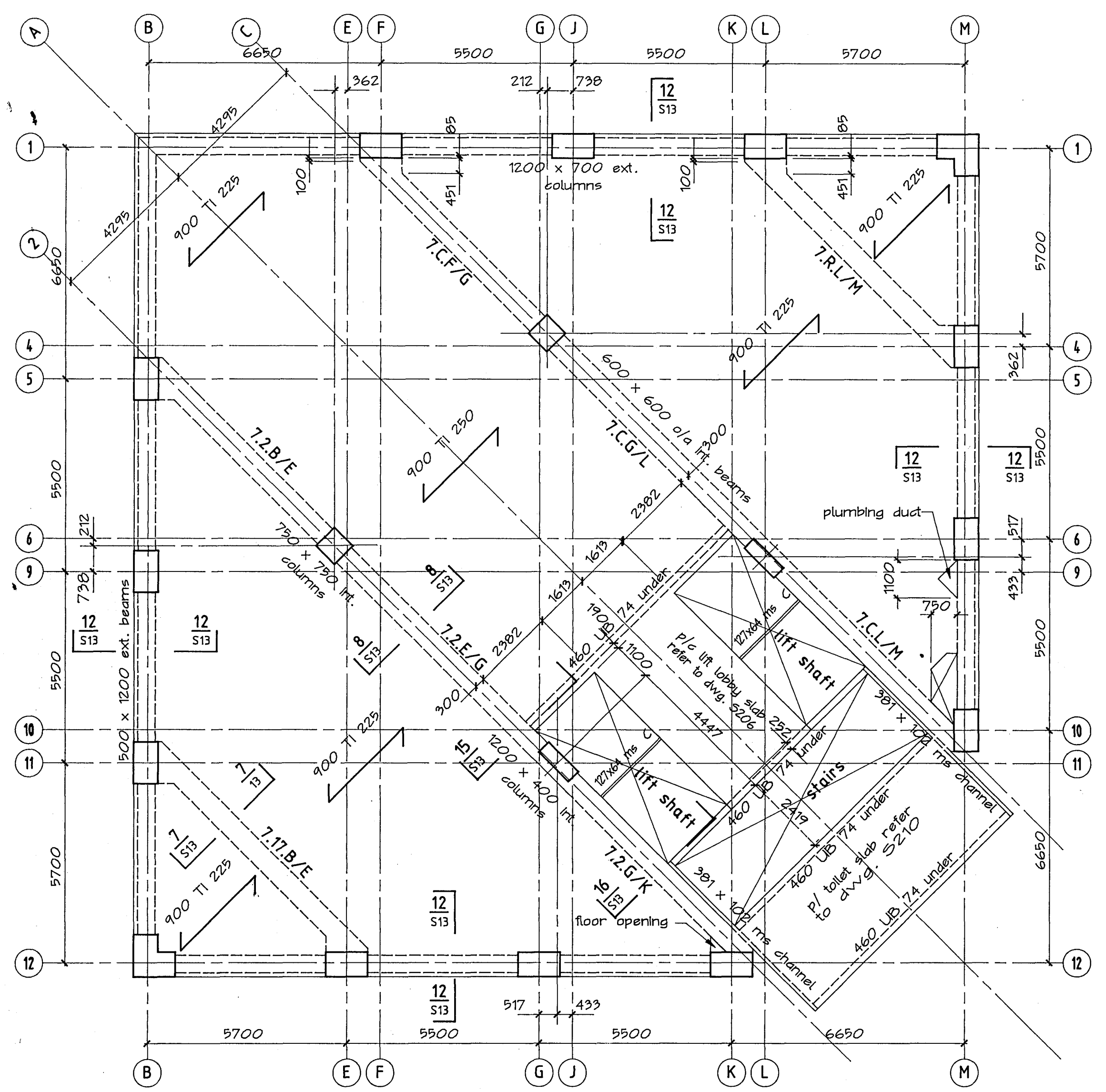
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ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

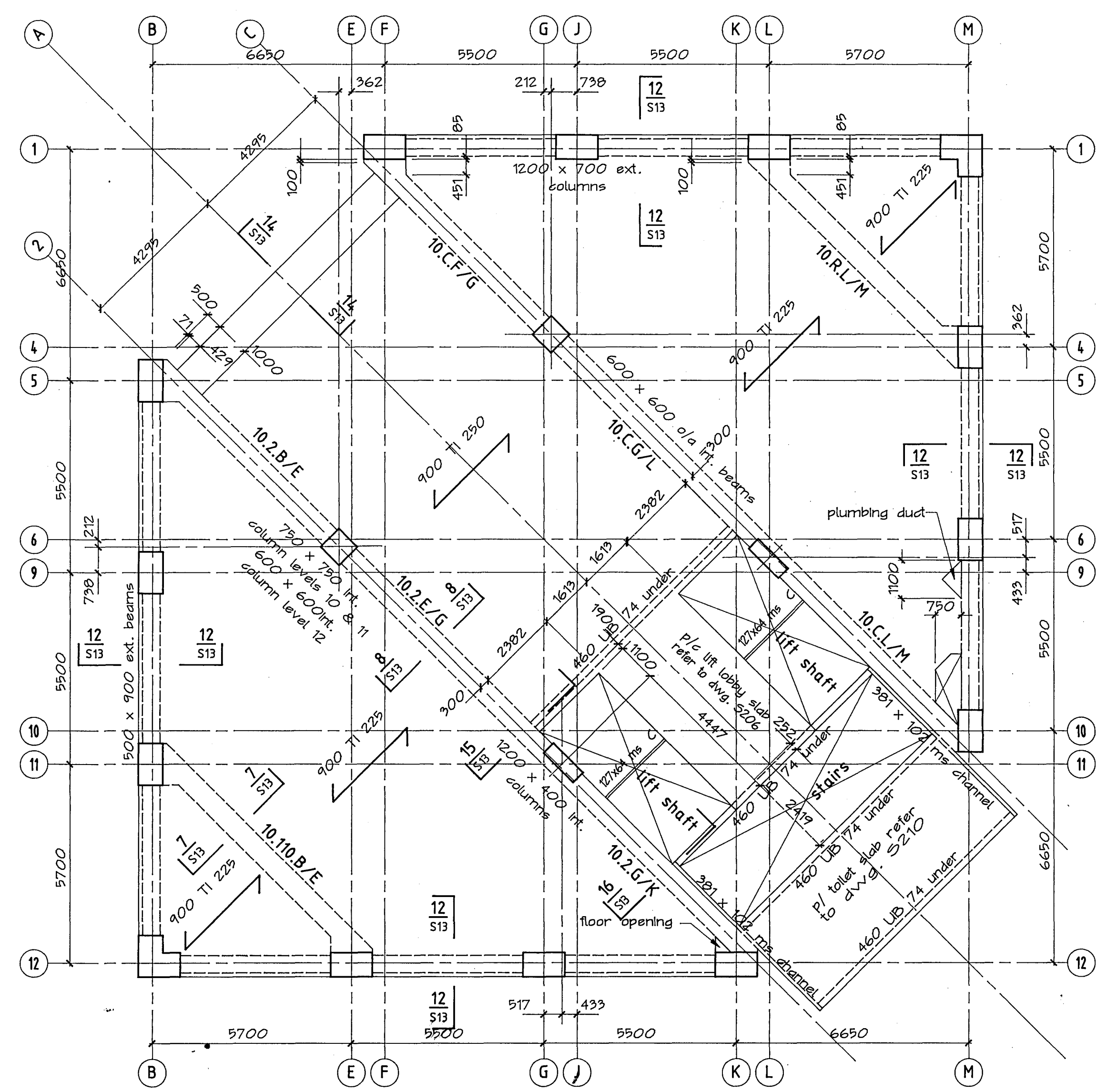
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Rev.	Date	Amendment
1	22/2/00	foundation permit
2	4/3/00	permit



NOTE: p/c beam call up shown refers to level 7 only.

plan levels 7 - 9



NOTE: p/c beam call up shown refers to level 10 only.

plan levels 10 - 12

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LANDMARK TOWER  
CHRISTCHURCH

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
2 APR 1988  
K. Brimrose

DRAWN: H.A.O. SCALE: 1:100  
APPROVED: [Signature]

SHEET TITLE:  
FLOOR PLANS  
LEVELS 7 TO 9 & 10 TO 12  
CARCASS

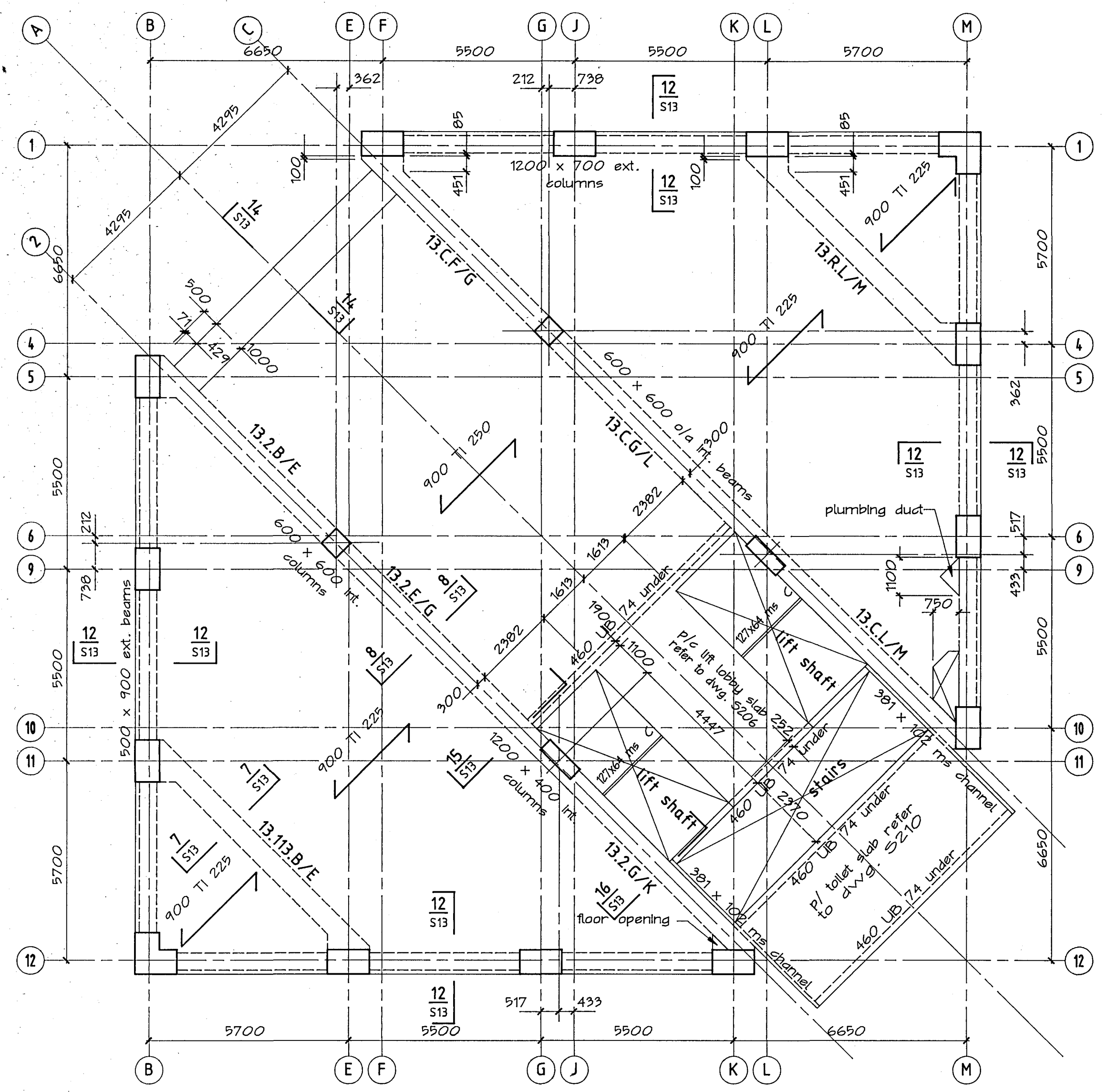
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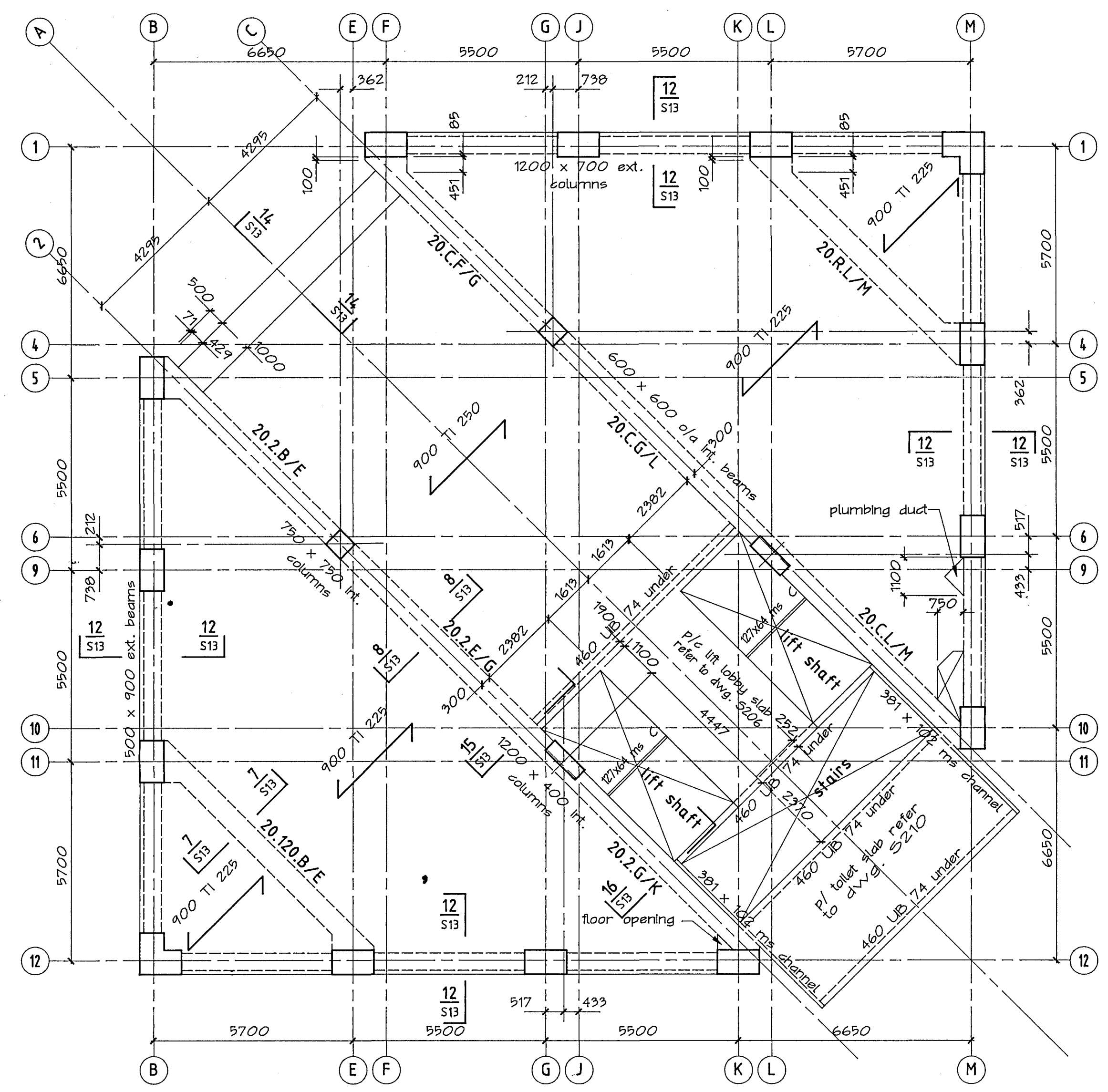
For package number

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Rev.	Date	Amendment
1	22/2/00	foundation permit
2	4/3/00	permit



plan levels 13 - 19



plan level 20  
To be confirmed

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CHRISTCHURCH

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26 APR 1988

DRAWN: H.A.D. SCALE: 1:100  
APPROVED: [Signature]

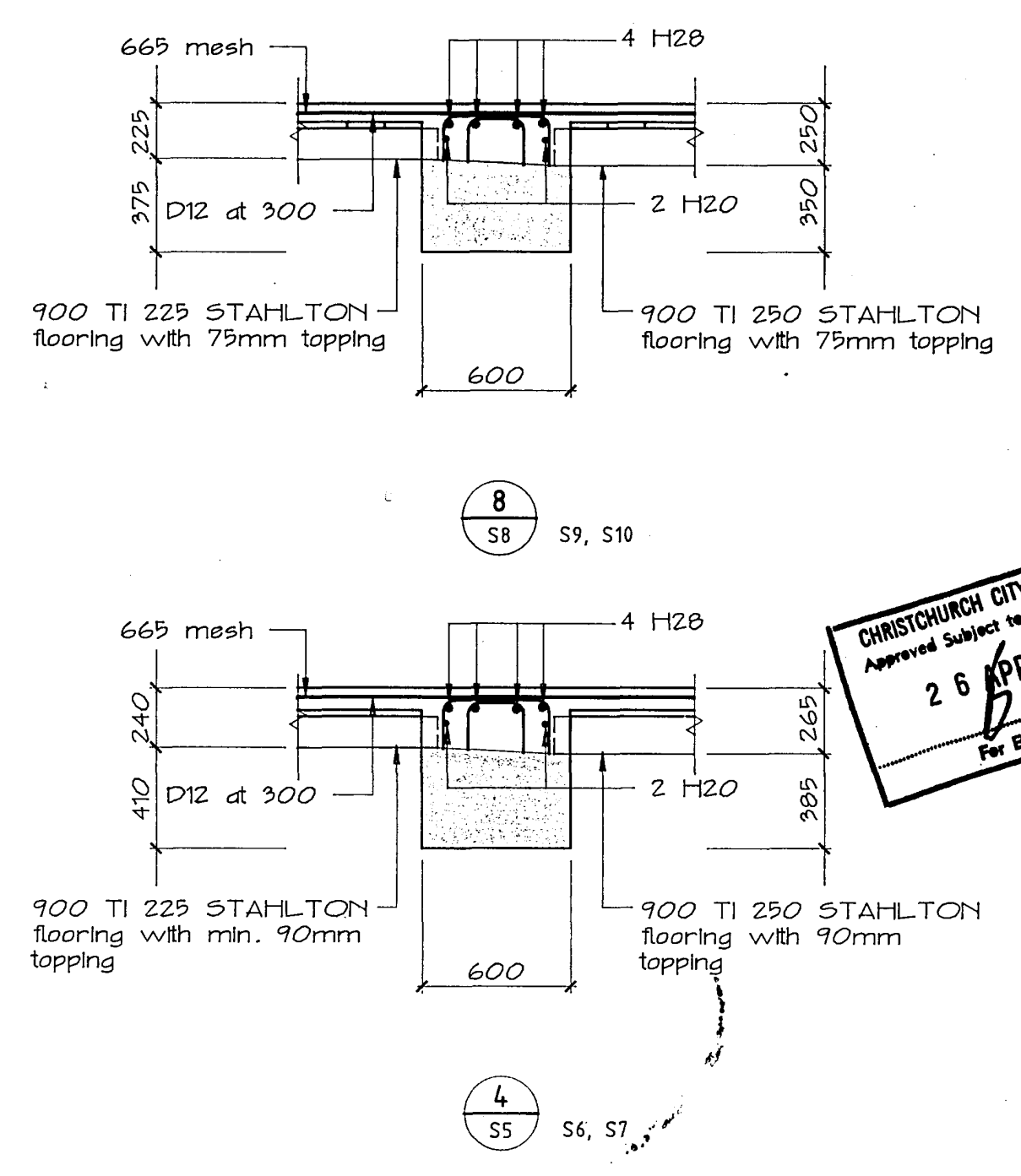
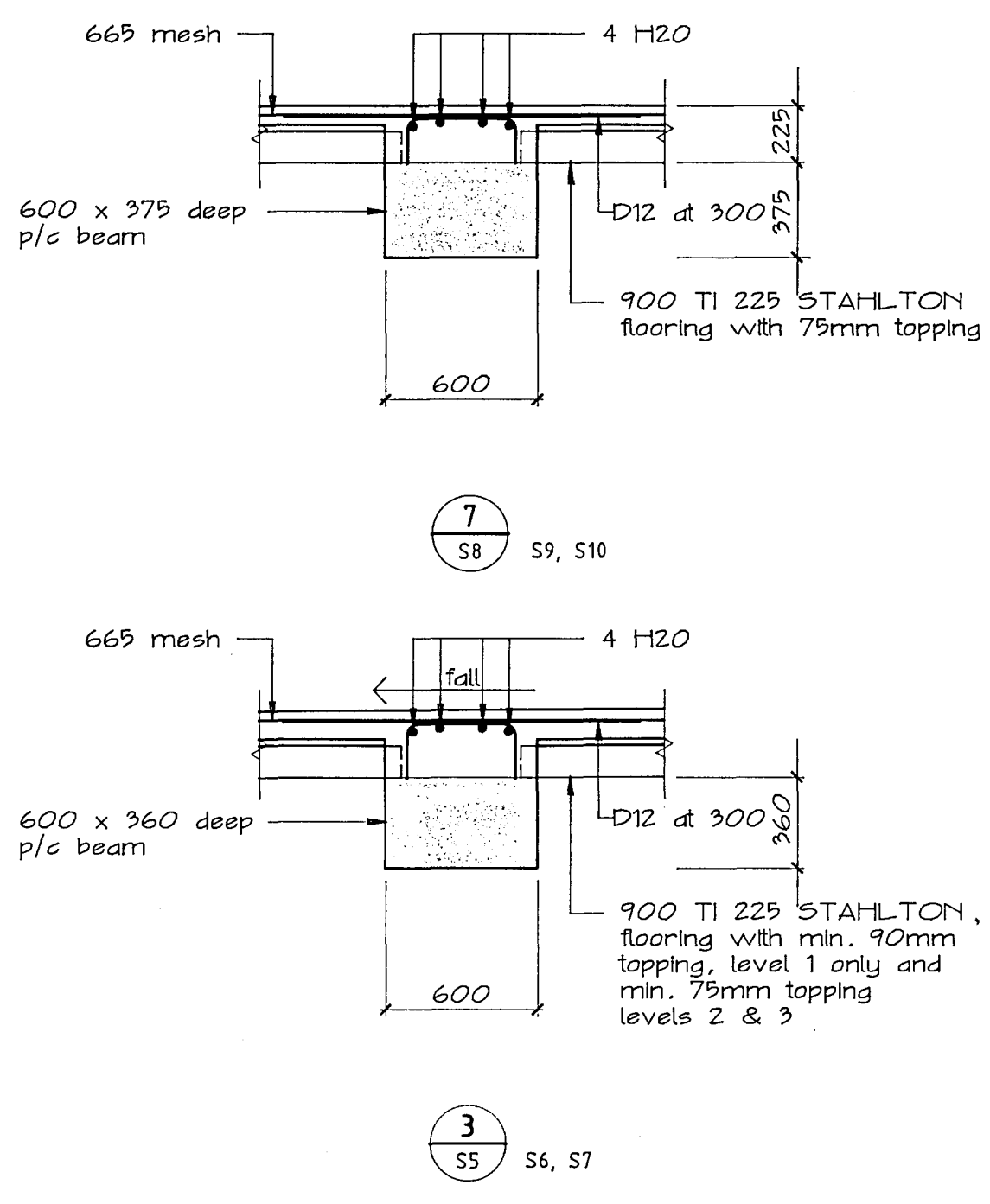
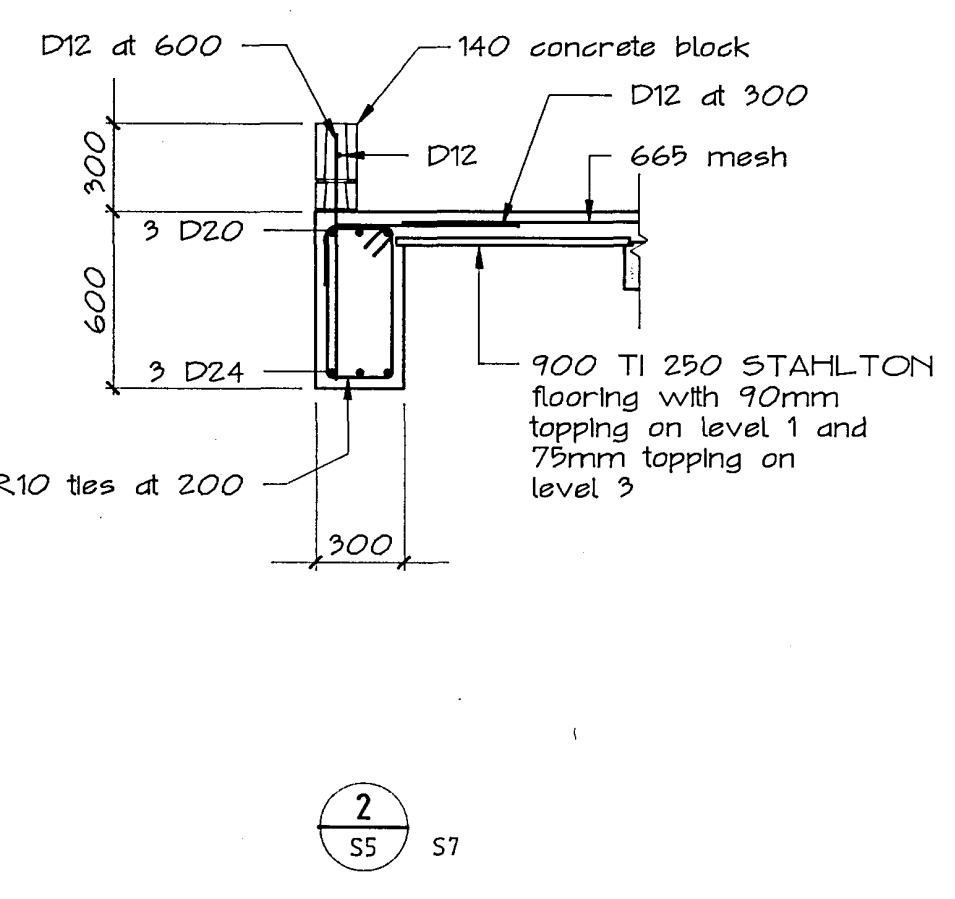
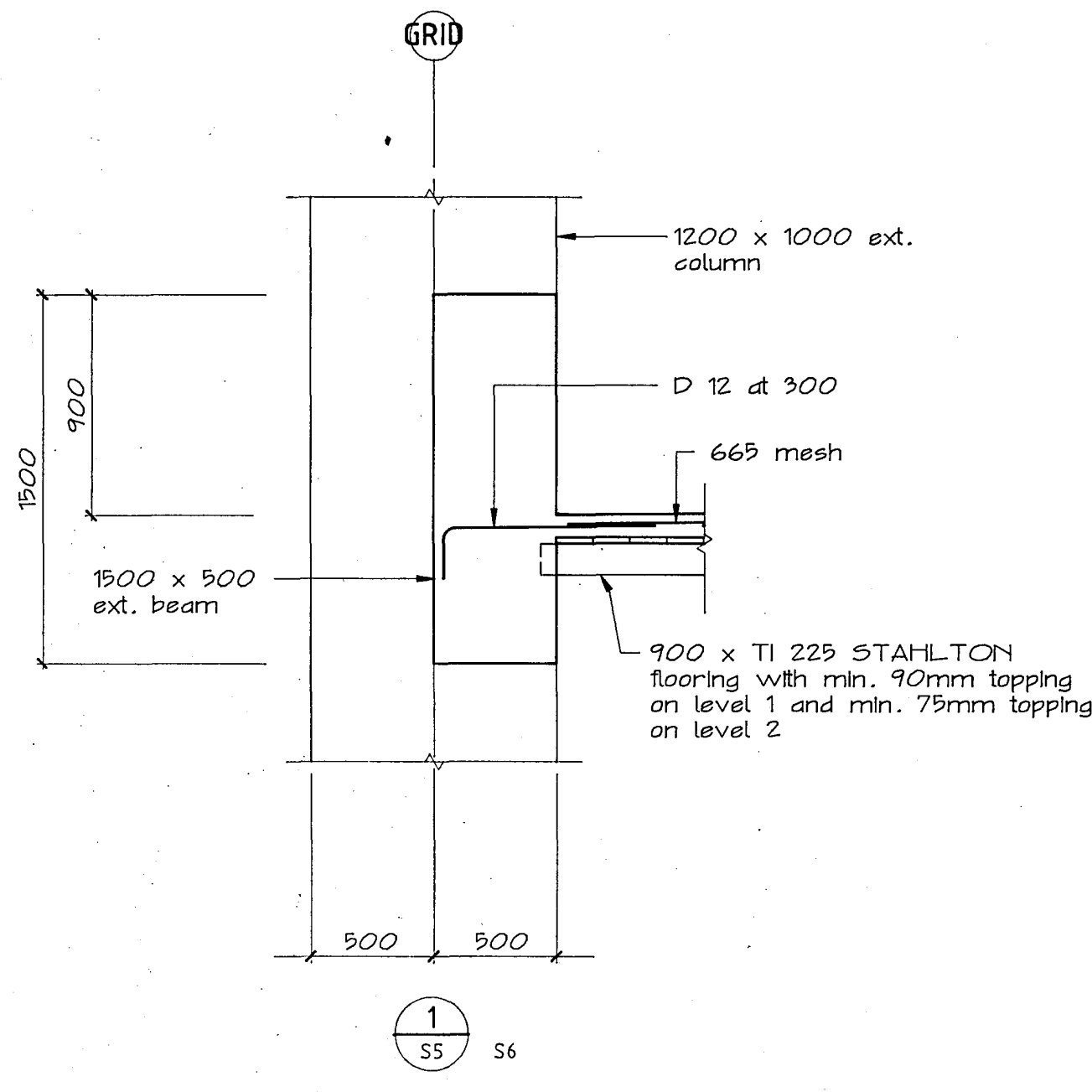
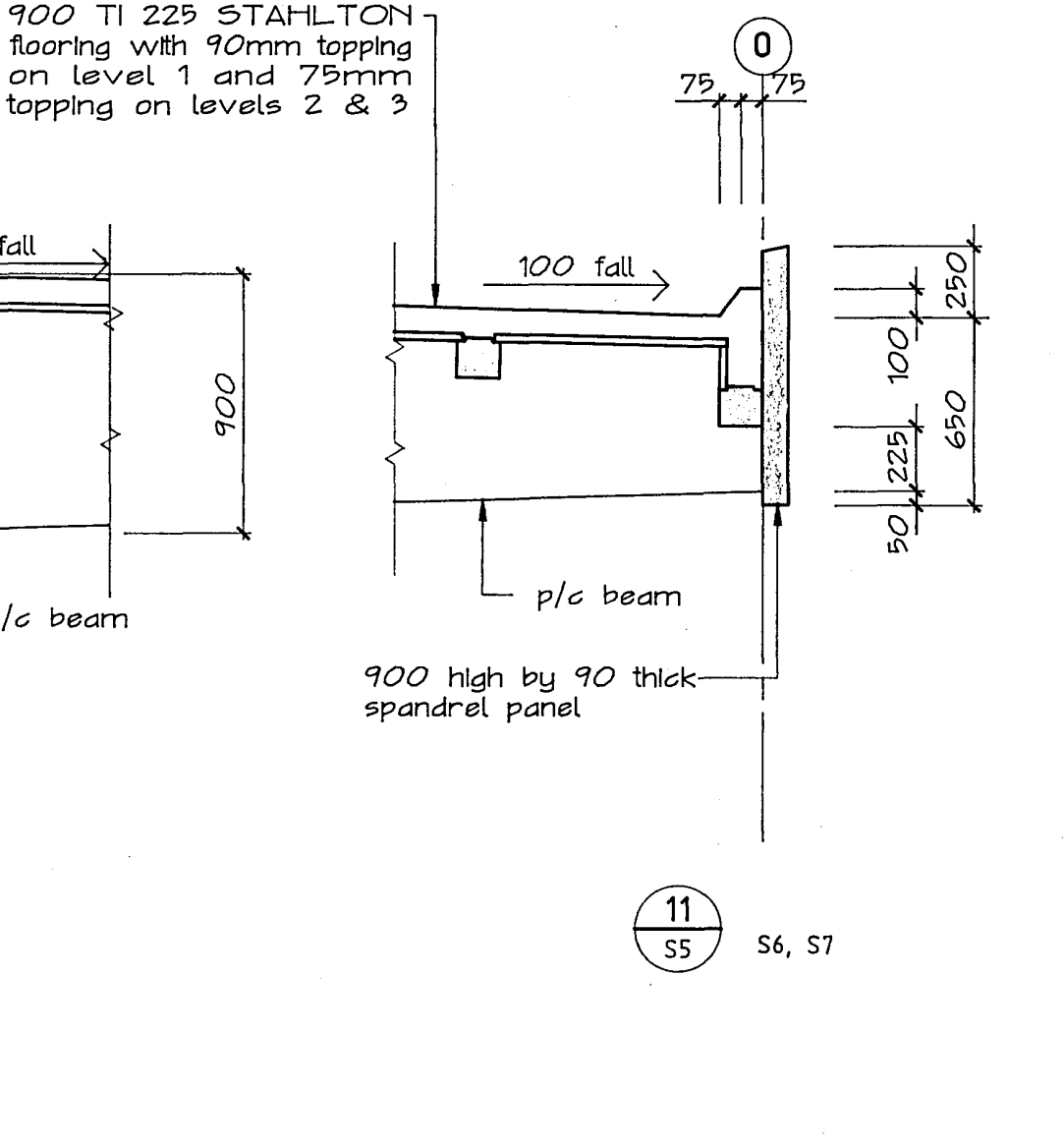
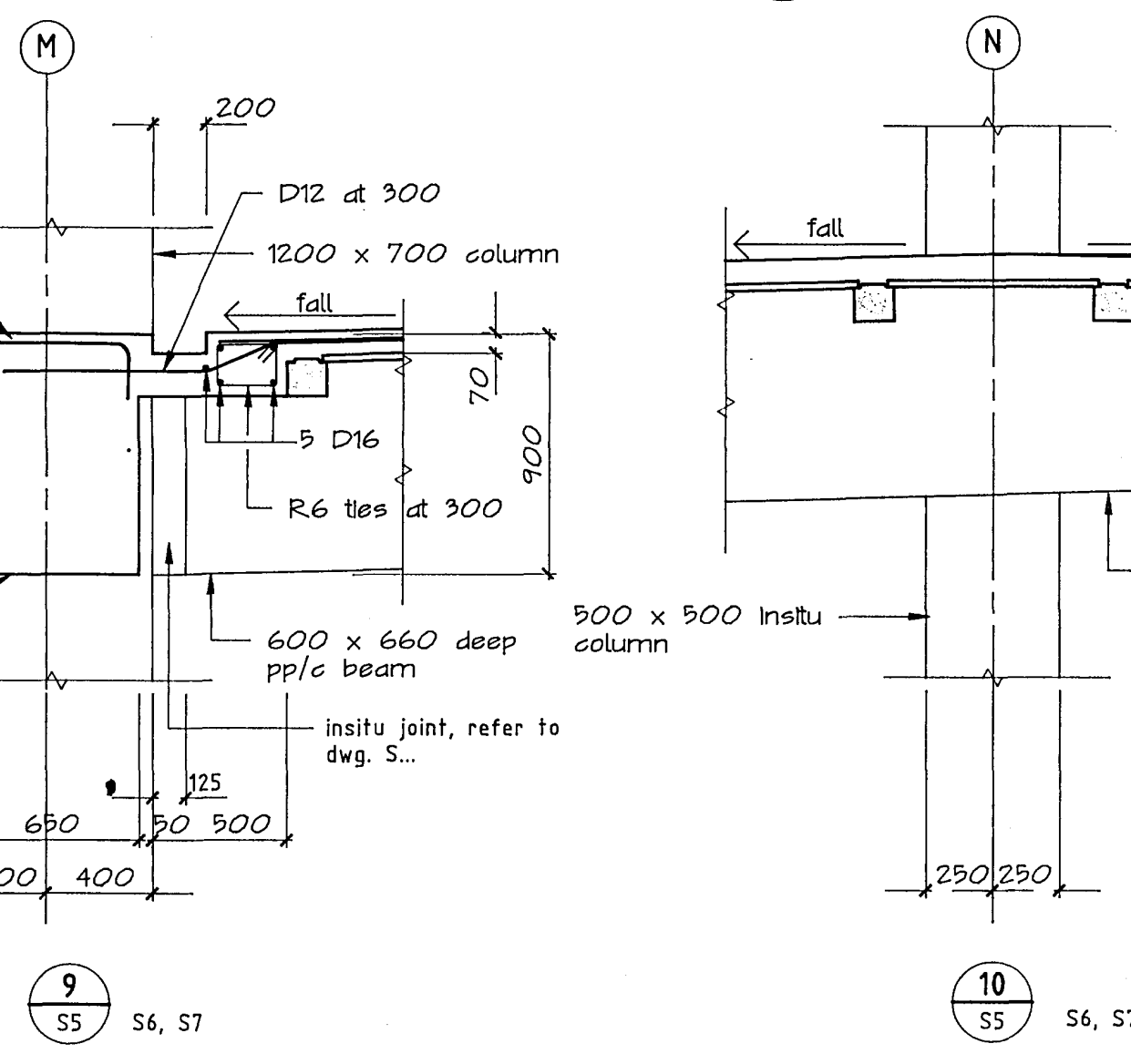
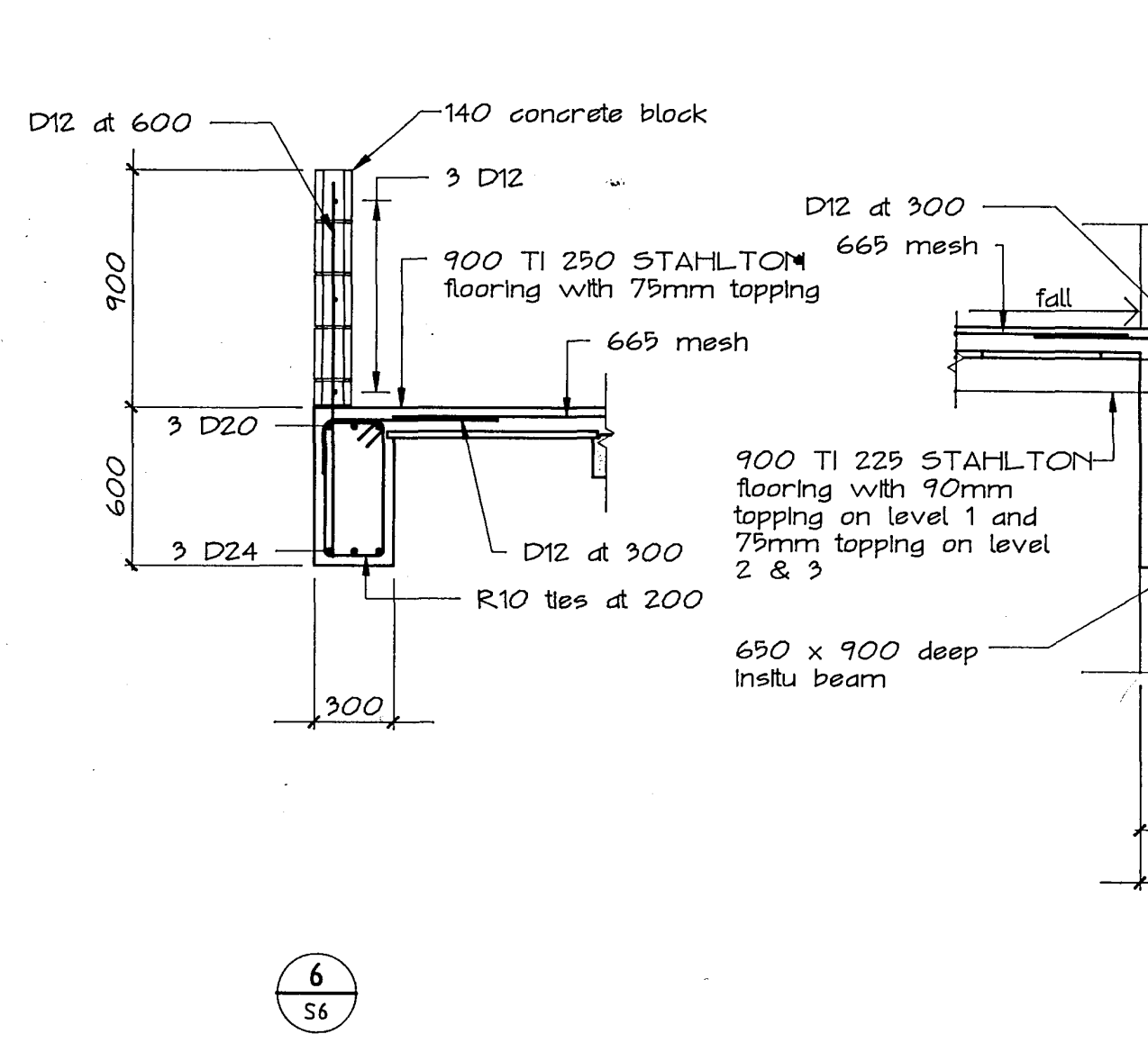
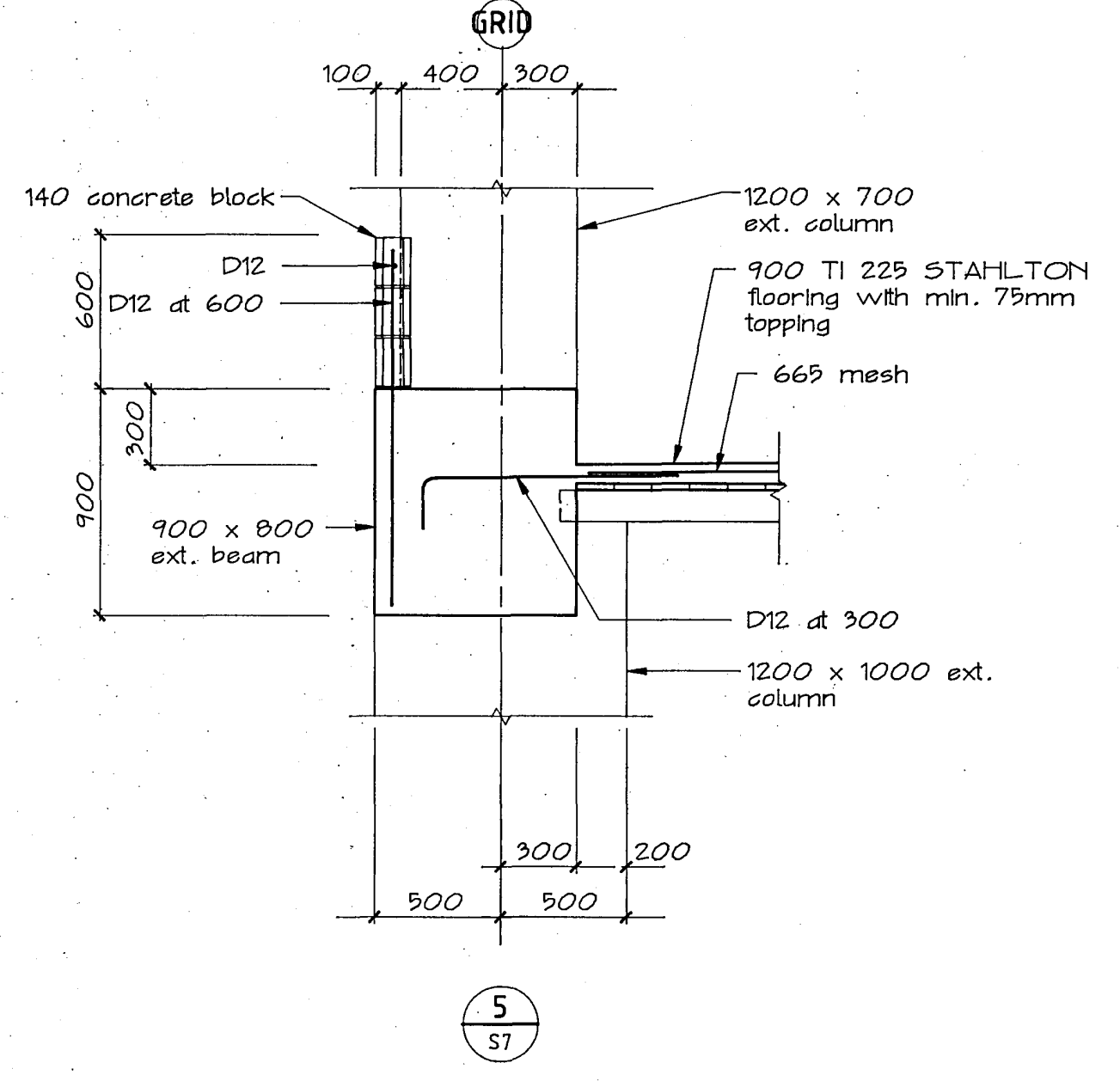
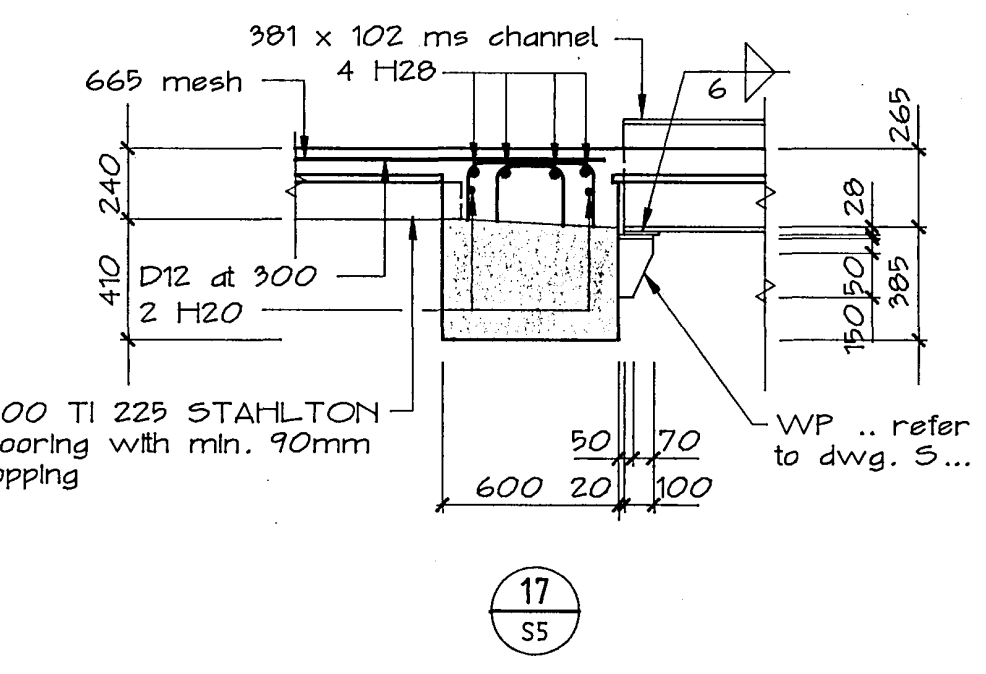
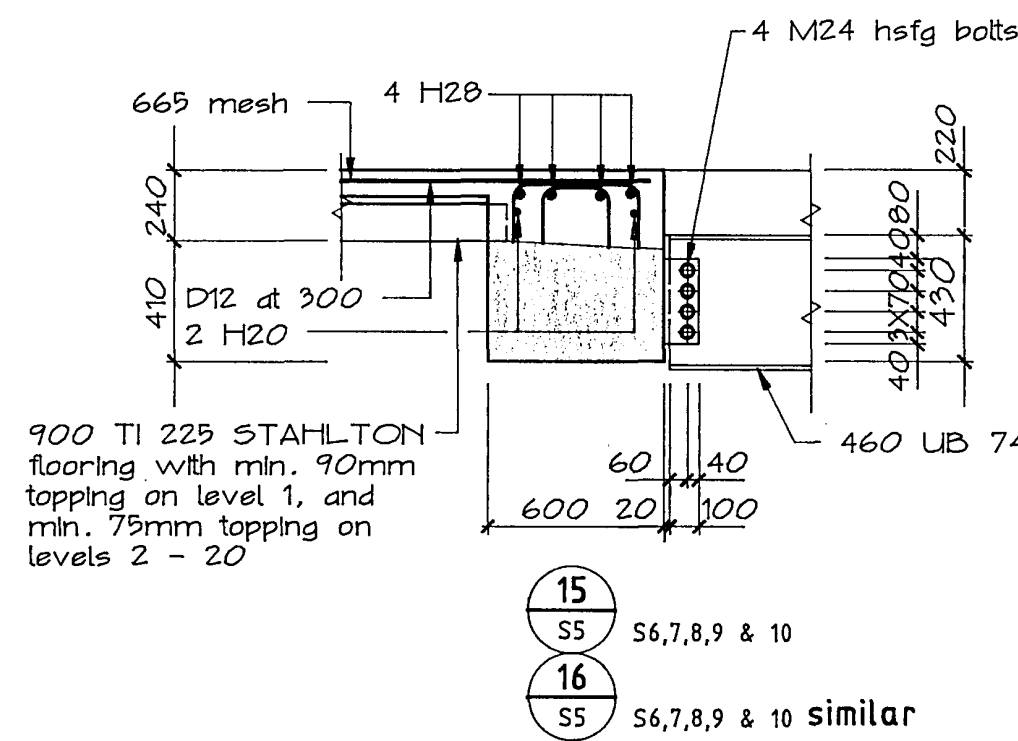
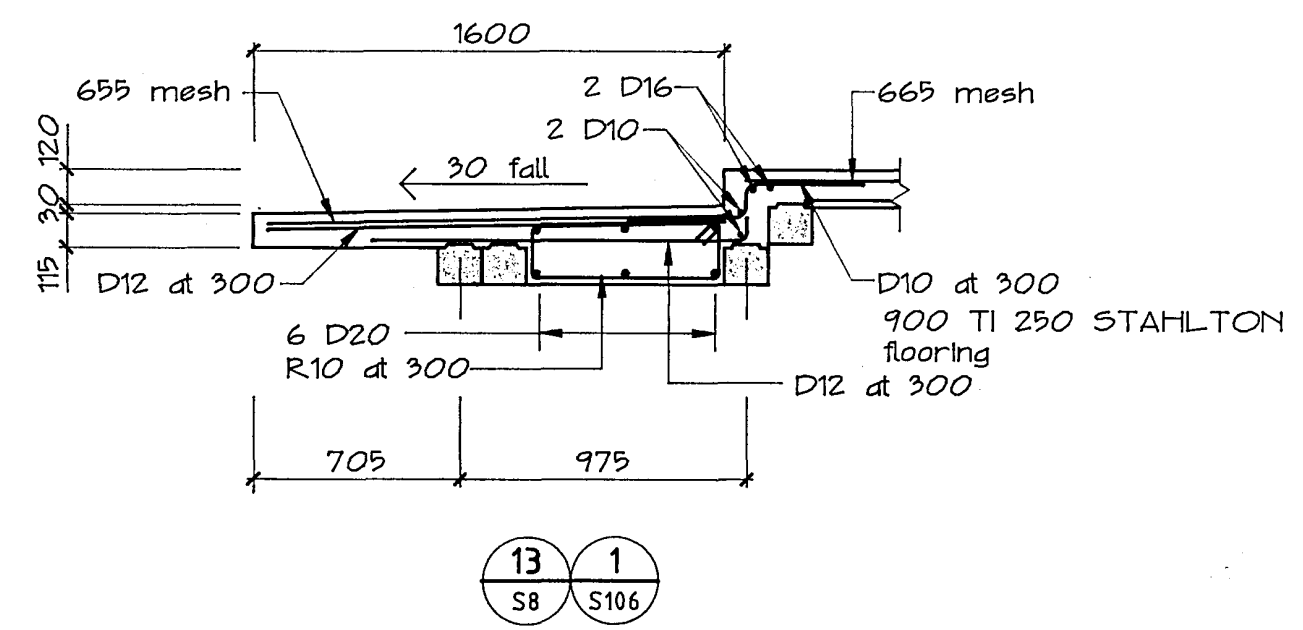
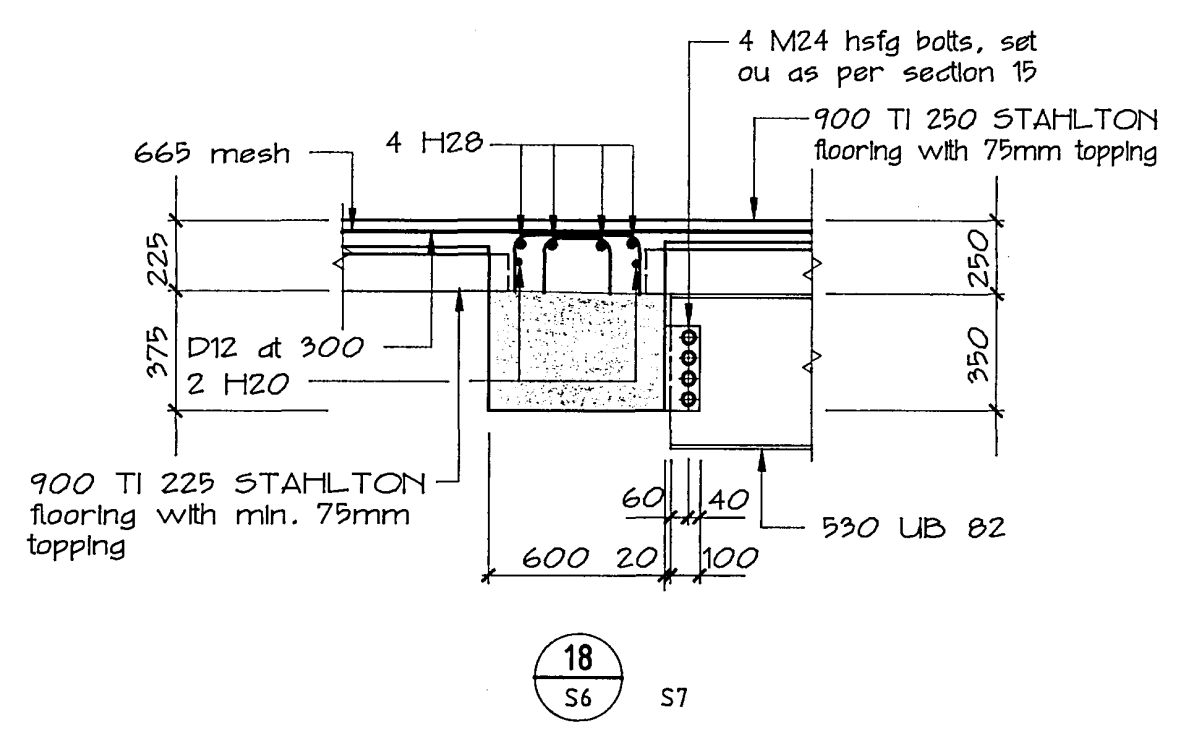
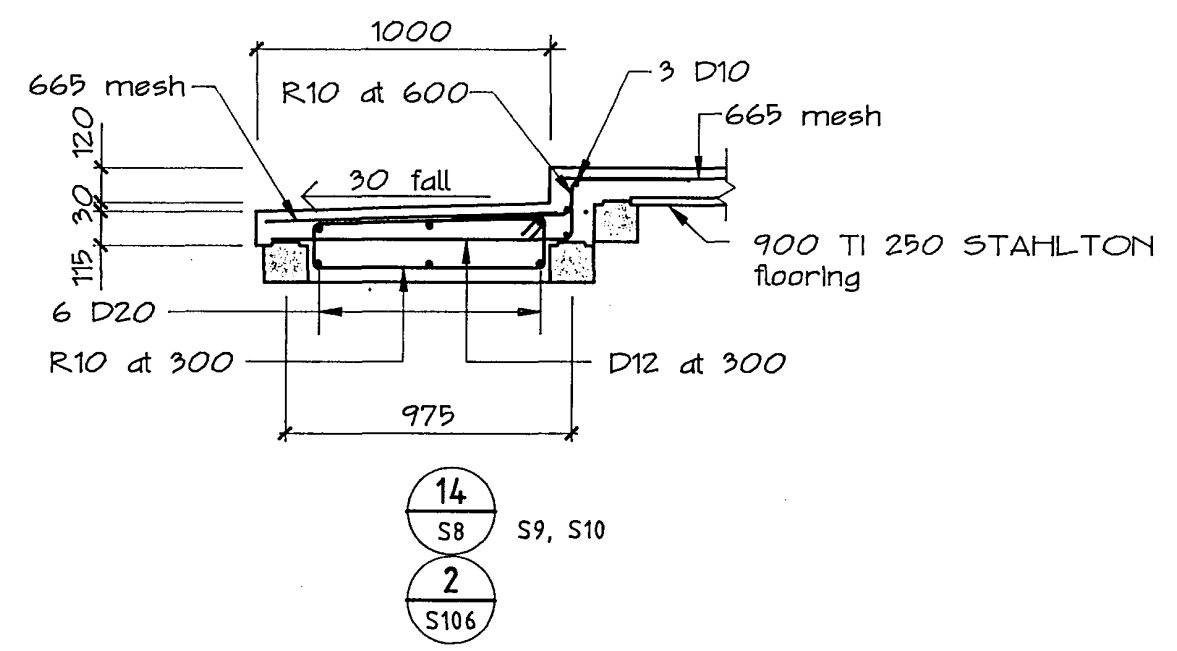
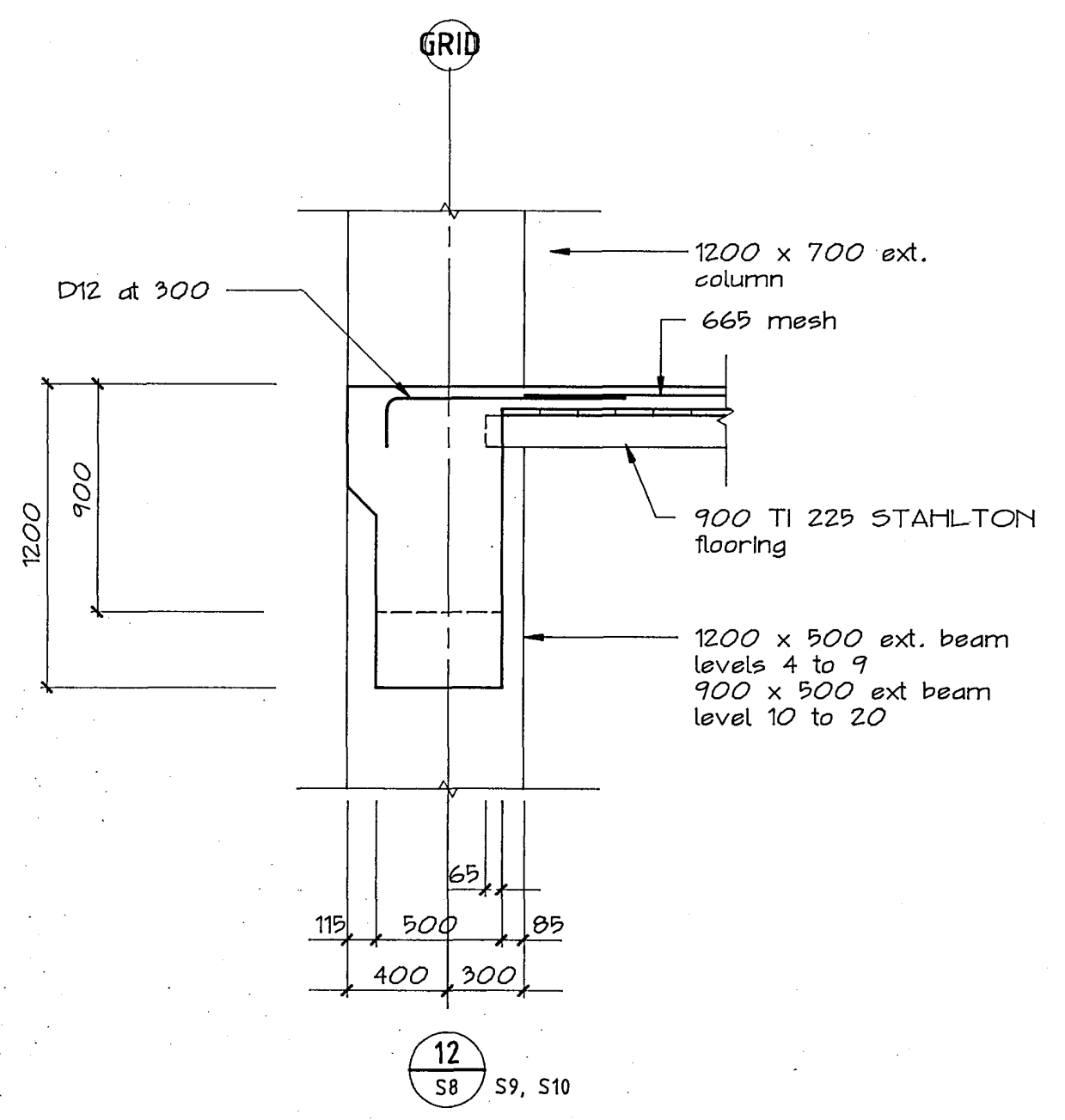
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FLOOR PLANS 18-19  
LEVELS 13 TO 19-20  
CARCASS 17

JOB NO: 2281 SHEET NO: S10 REV: 2

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number															
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Rev.	Date	Amendment
1	4/3/08	permit



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Christchurch, Wellington, New Plymouth, Auckland

# LANDMARK TOWER CHRISTCHURCH

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
For Engineer

DRAWN: H.A.O. SCALE: 1:25  
APPROVED: [Signature]

SHEET TITLE:  
FLOOR PLANS  
CARCASS DETAILS  
SECTION 1 TO 18

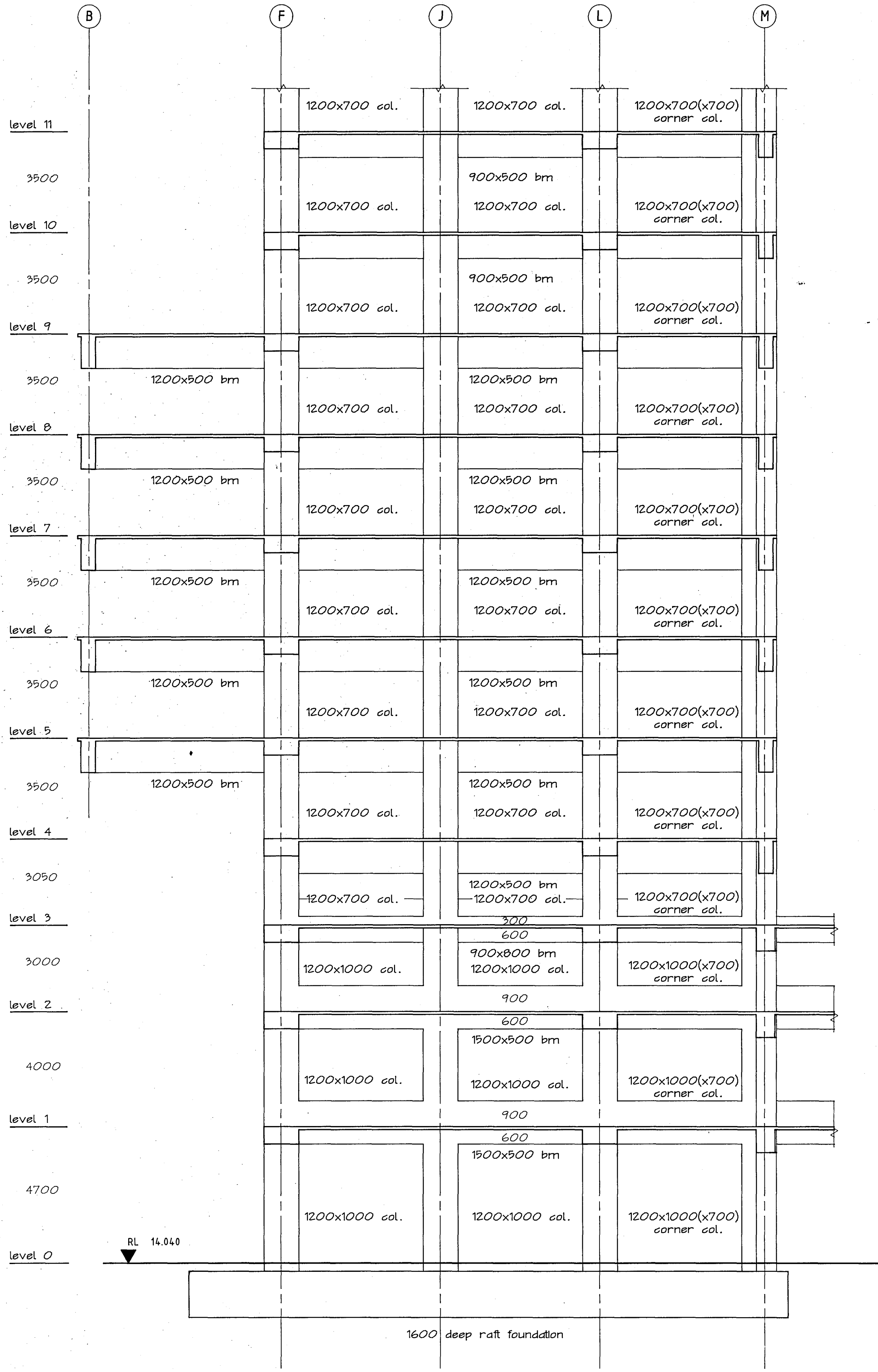
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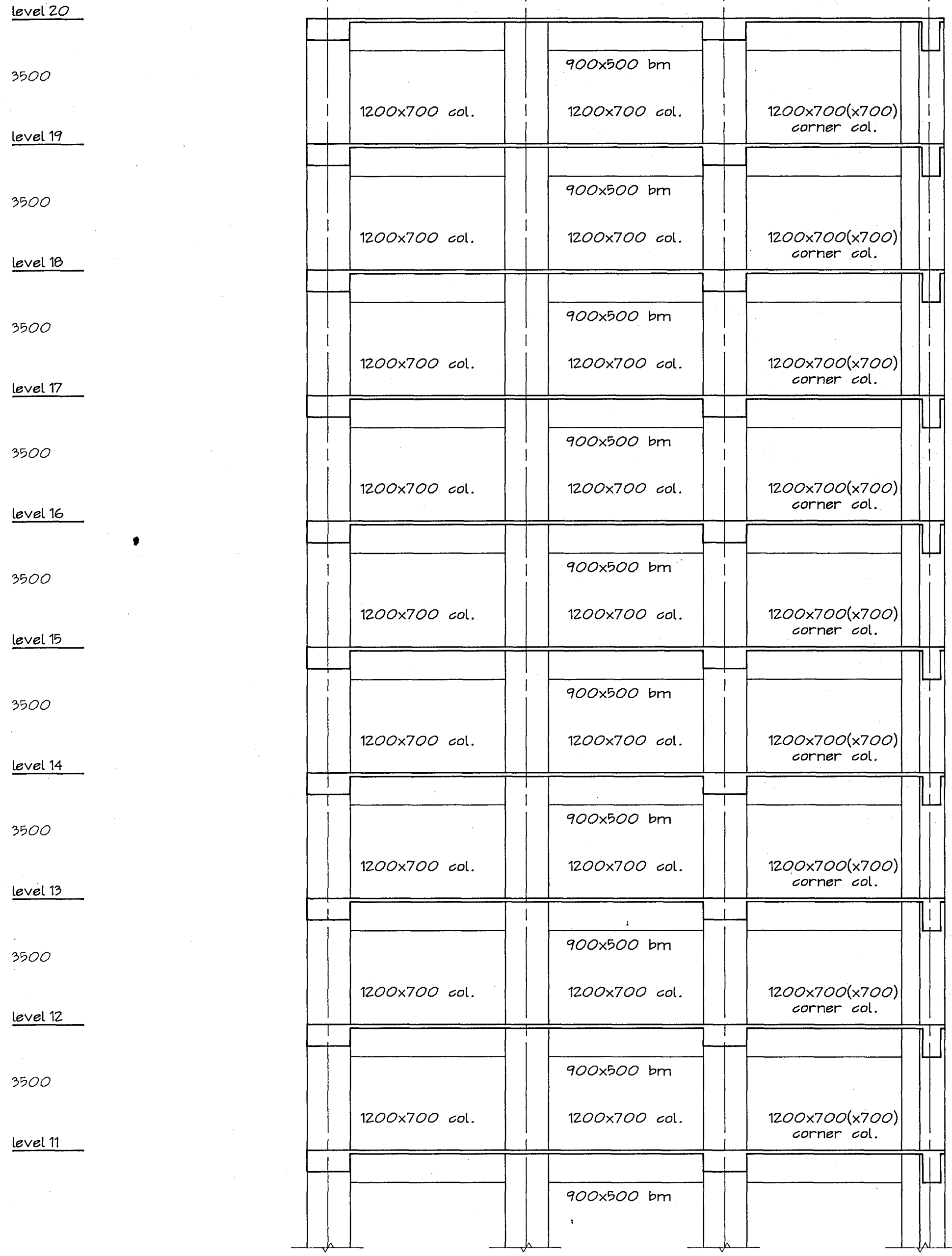
ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number															
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Rev.	Date	Amendment
1	22/2/88	foundation permit
2	4/3/88	PERMIT



FRAME ON GRID 1



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Christchurch, Wellington, New Plymouth, Auckland

LANDMARK TOWER  
CHRISTCHURCH

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
For Engineer

DRAWN: g.a.e SCALE: 1:100  
APPROVED: [Signature]

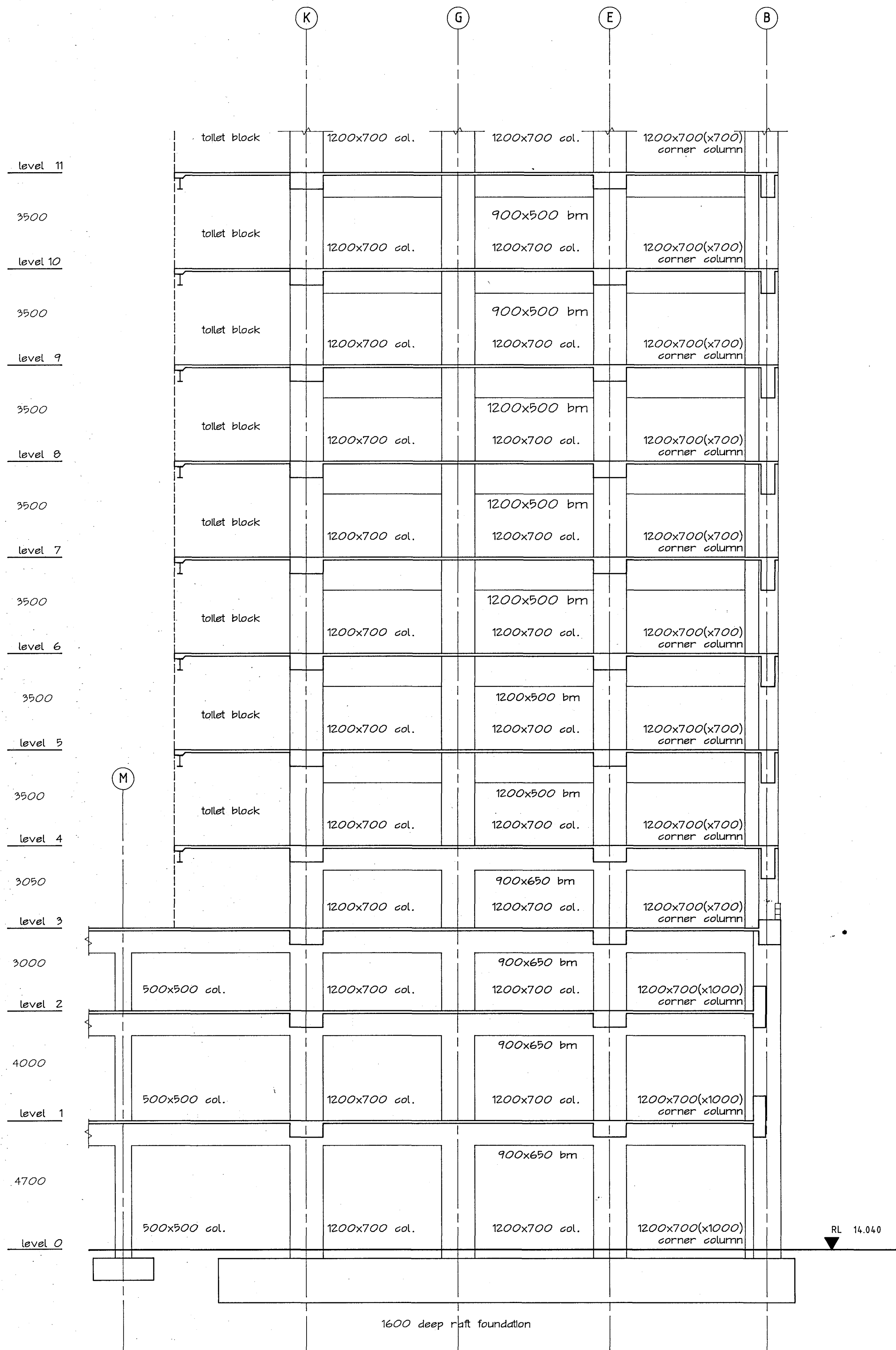
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FRAME ON GRID 1  
LEVELS 0 to 20  
CARCASS

JOB NO: 2281 SHEET NO: S30 REV: 2

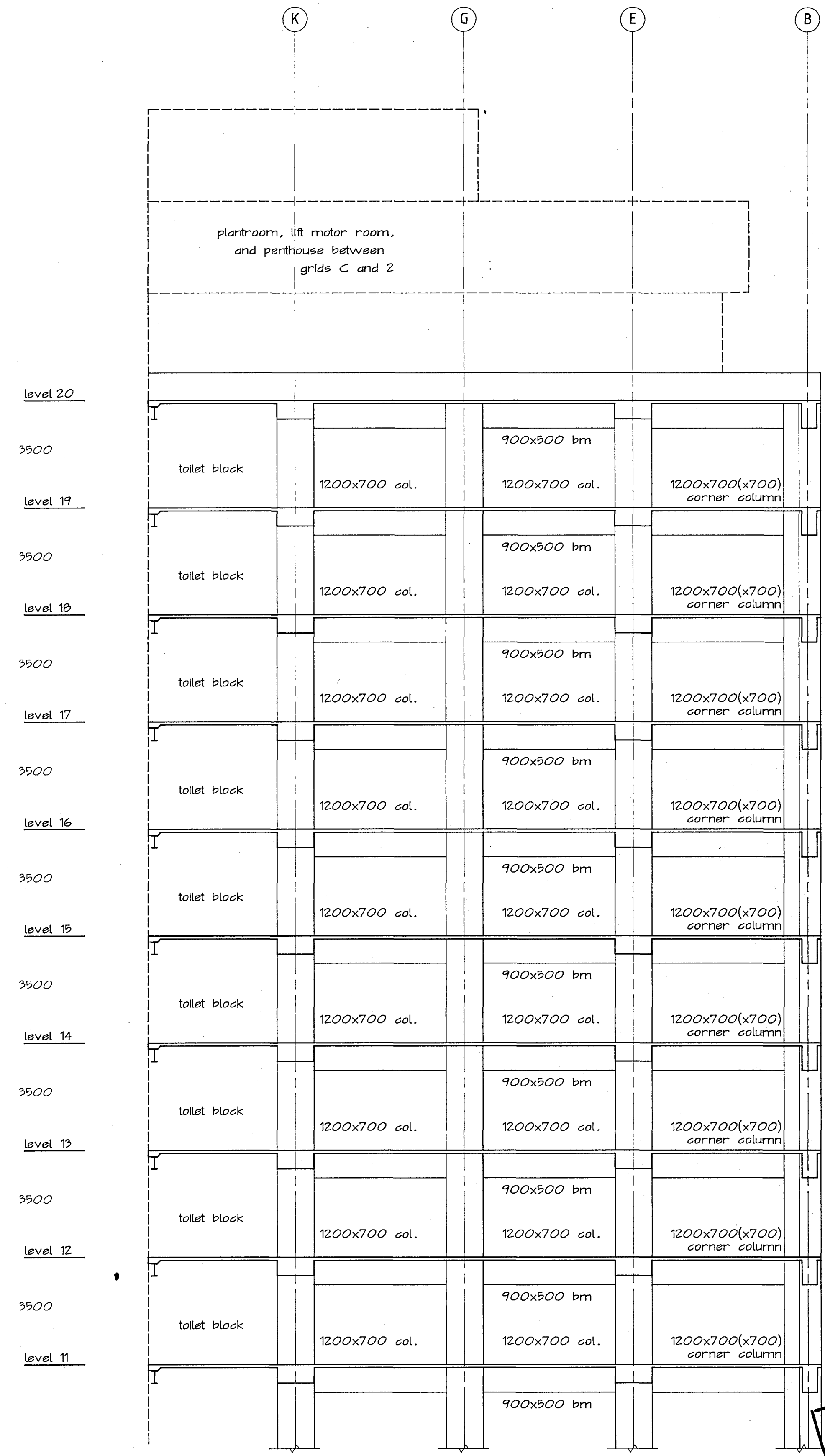
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For package number																
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Rev.	Date	Amendment
1	22/2/00	foundation permit
2	4/3/88	PERMIT



FRAME ON GRID 12



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Christchurch, Wellington, New Plymouth, Auckland

# LANDMARK TOWER CHRISTCHURCH

DRAWN: g.a.e SCALE: 1:100  
APPROVED: [Signature]

SHEET TITLE:  
FRAME ON GRID 12  
LEVELS 0 to 20  
CARCASS

JOB NO: 2281 SHEET NO: S31 REV: 2

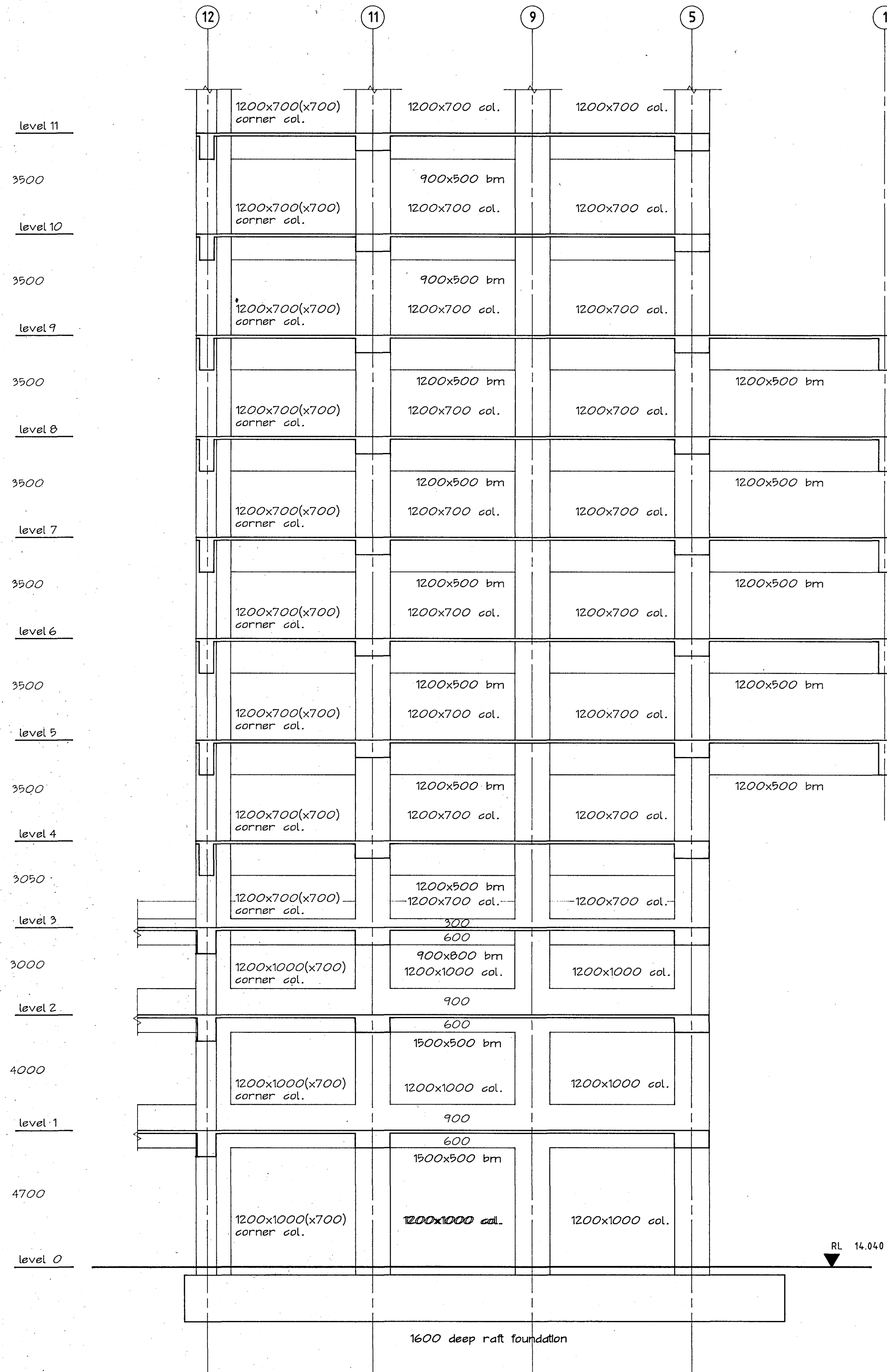
CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
For Engineer

ALL DIMENSIONS TO BE VERIFIED ON SITE  
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COMMENCING ANY WORK

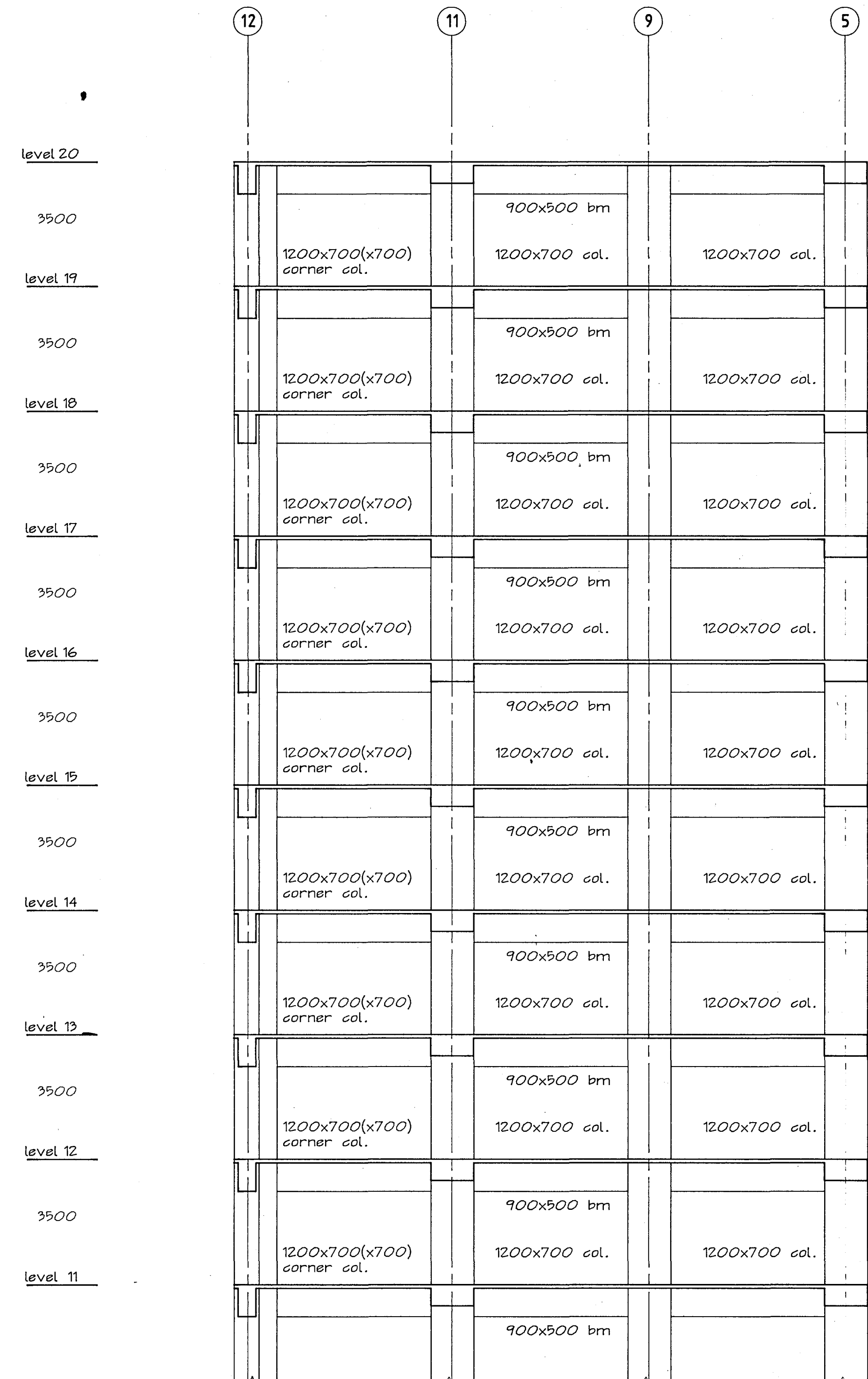
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Rev.	Date	Amendment
1	22/2/00	foundation permit
2	4/3/88	PERMIT



FRAME ON GRID B



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Christchurch, Wellington, New Plymouth, Auckland

**LANDMARK TOWER**  
**CHRISTCHURCH**

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
Per Engineer

DRAWN: g.a.e SCALE: 1:100  
APPROVED: [Signature]

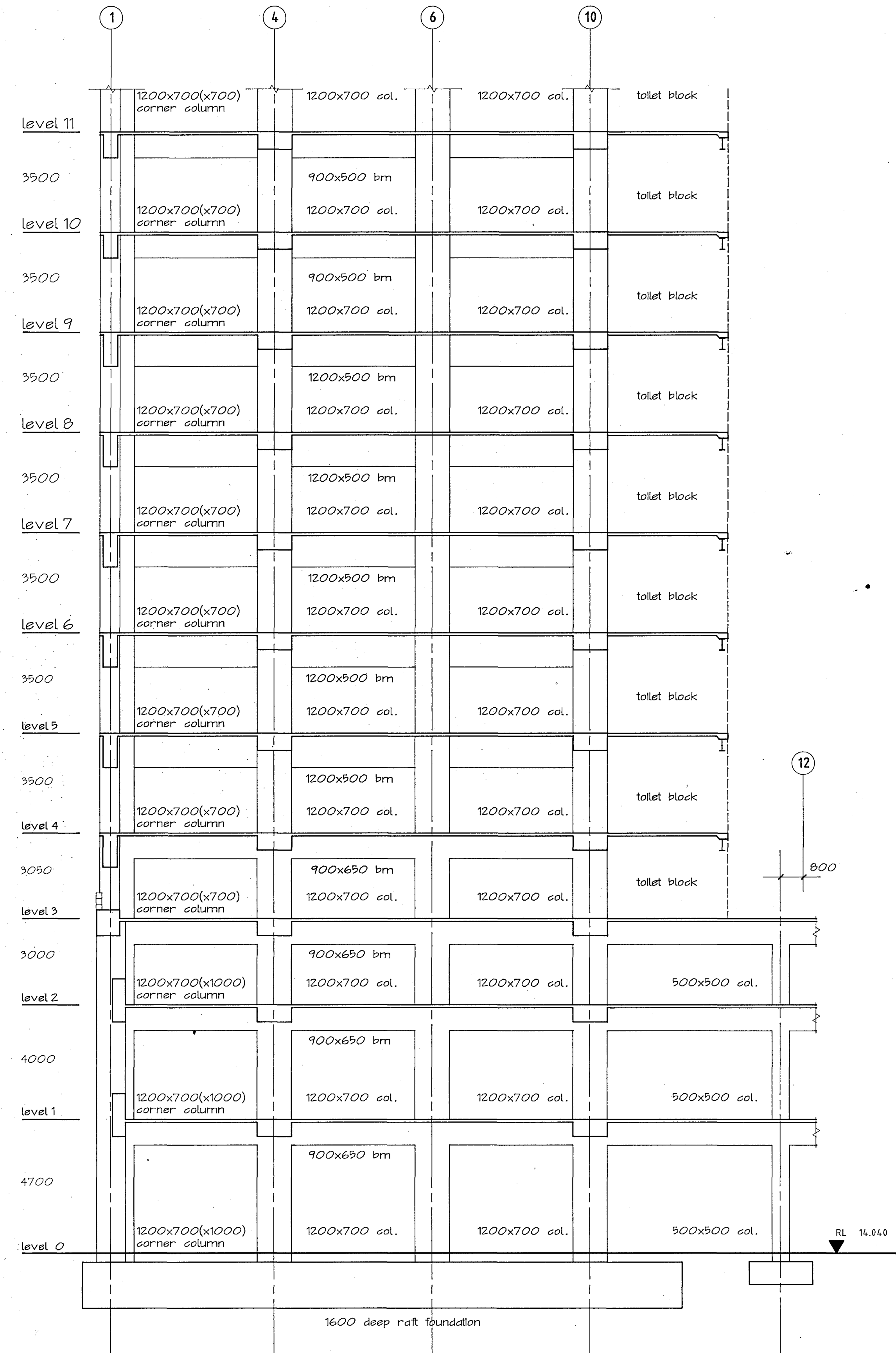
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LEVELS 0 to 20  
CARCASS

JOB NO: 2281 SHEET NO: S32 REV: 2

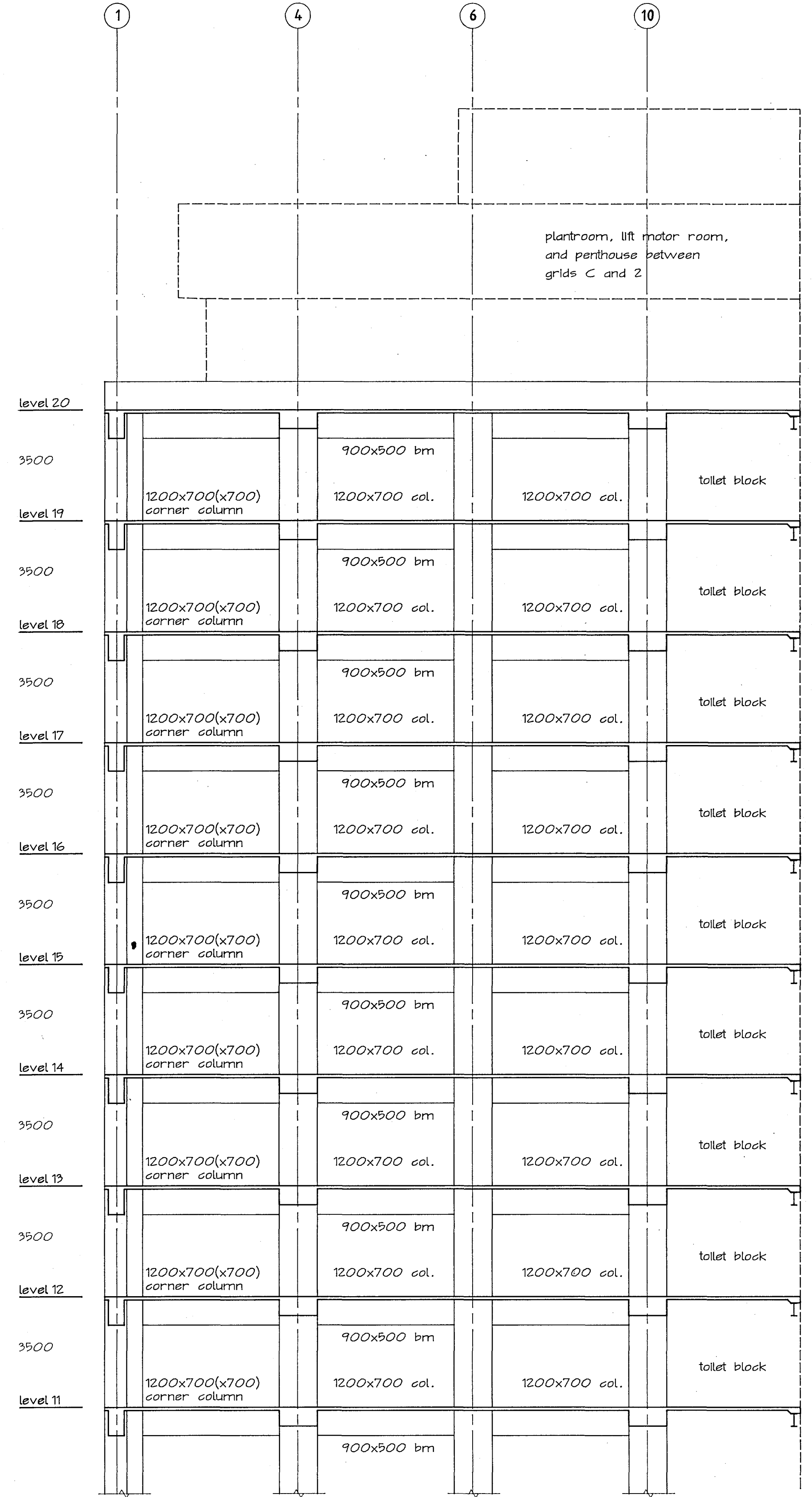
ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number															
4	6	7	8	9	10	11	12	13	14	15	17	31	45		

Rev.	Date	Amendment
1	22/2/88	foundation permit
2	4/3/88	PERMIT



FRAME ON GRID M



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Christchurch, Wellington, New Plymouth, Auckland

### LANDMARK TOWER CHRISTCHURCH

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
M. Engineer

DRAWN: g.g.e SCALE: 1:100  
APPROVED: [Signature]

SHEET TITLE:  
FRAME ON GRID M  
LEVELS 0 to 20  
CARCASS

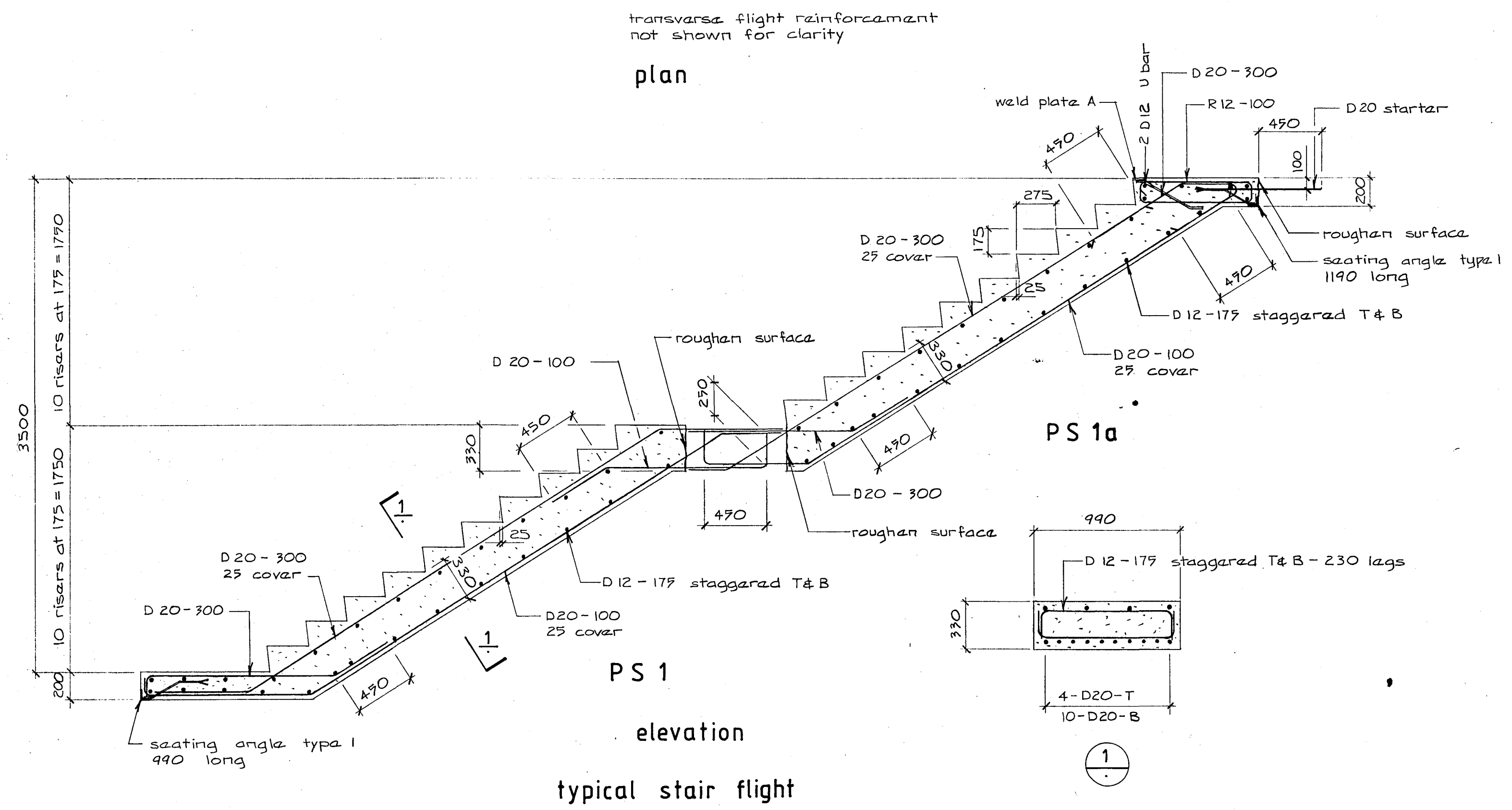
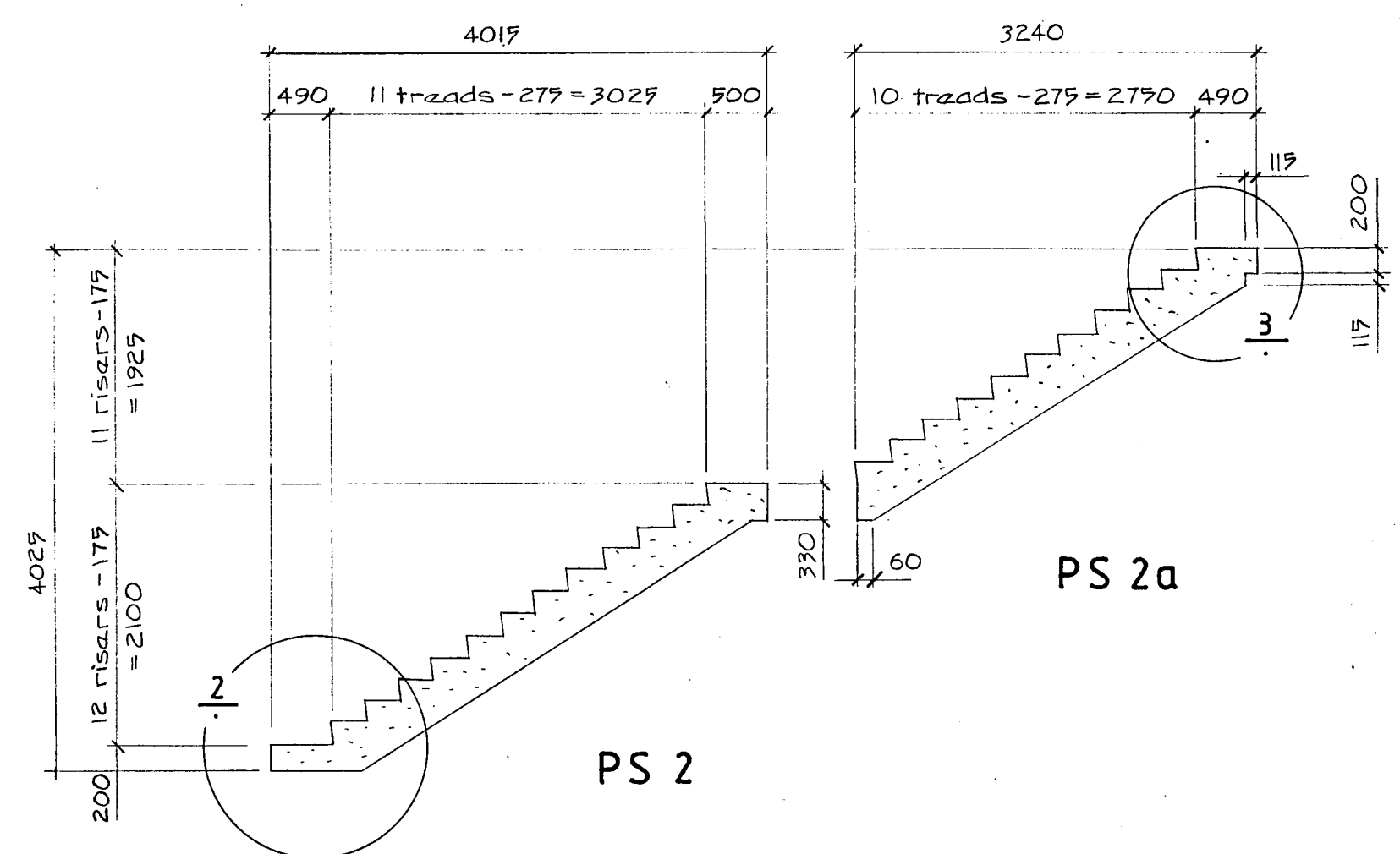
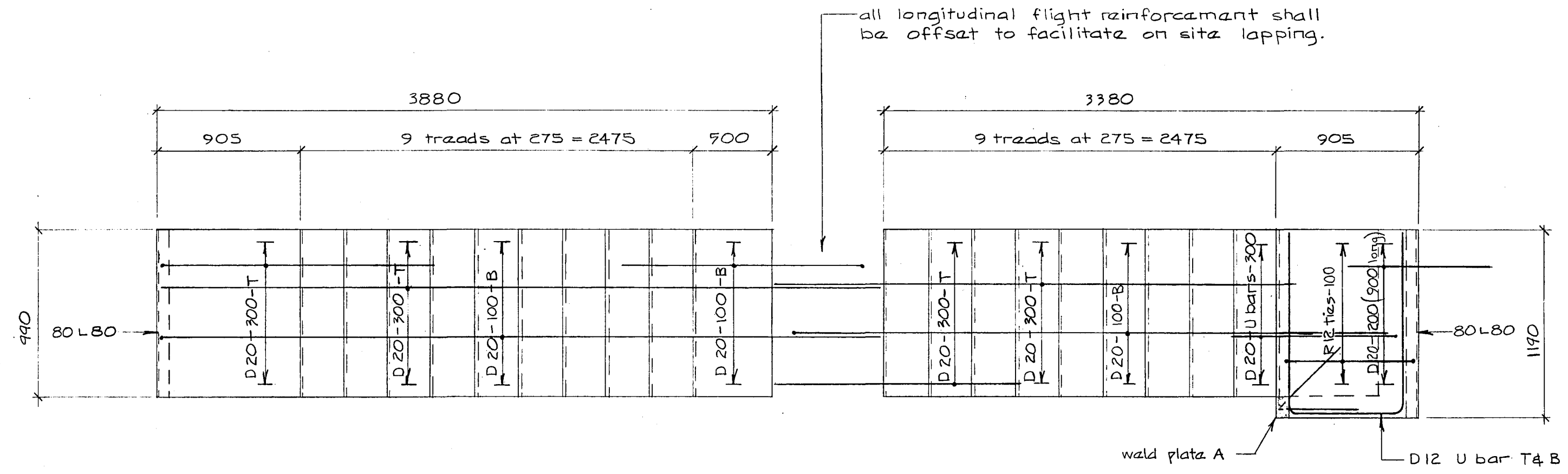
JOB NO: 2281 SHEET NO: S33 REV: 2

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

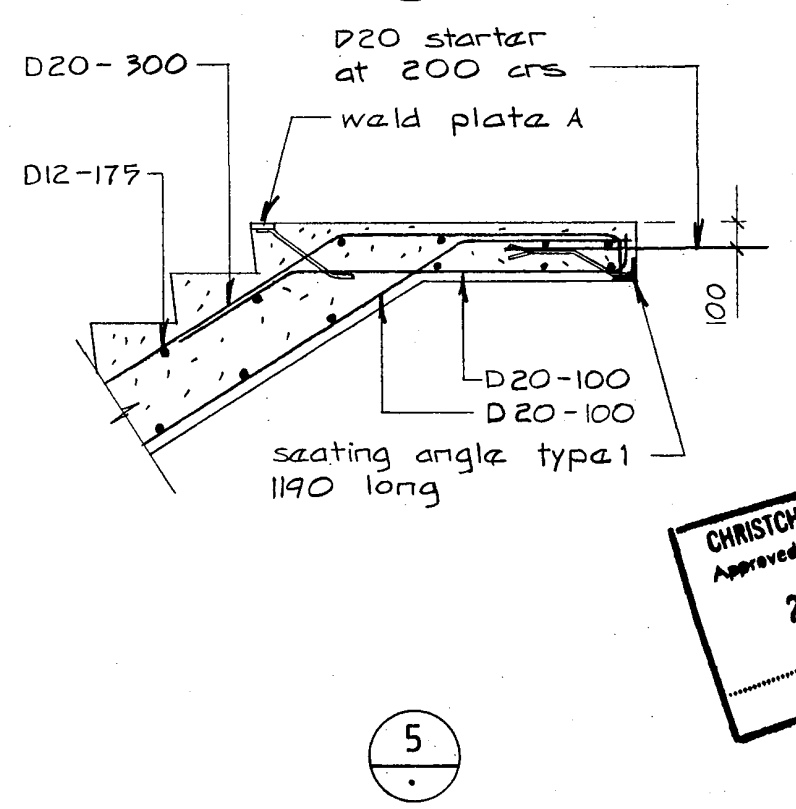
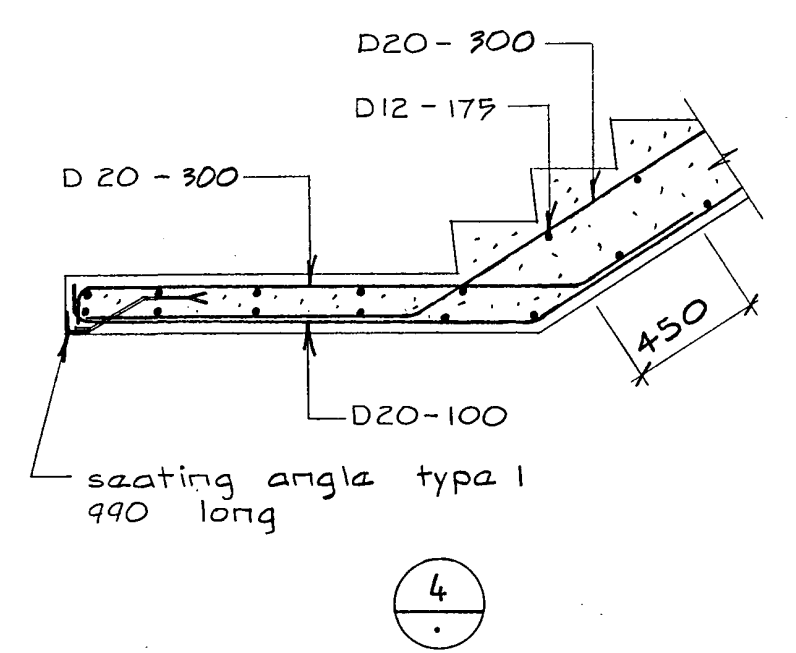
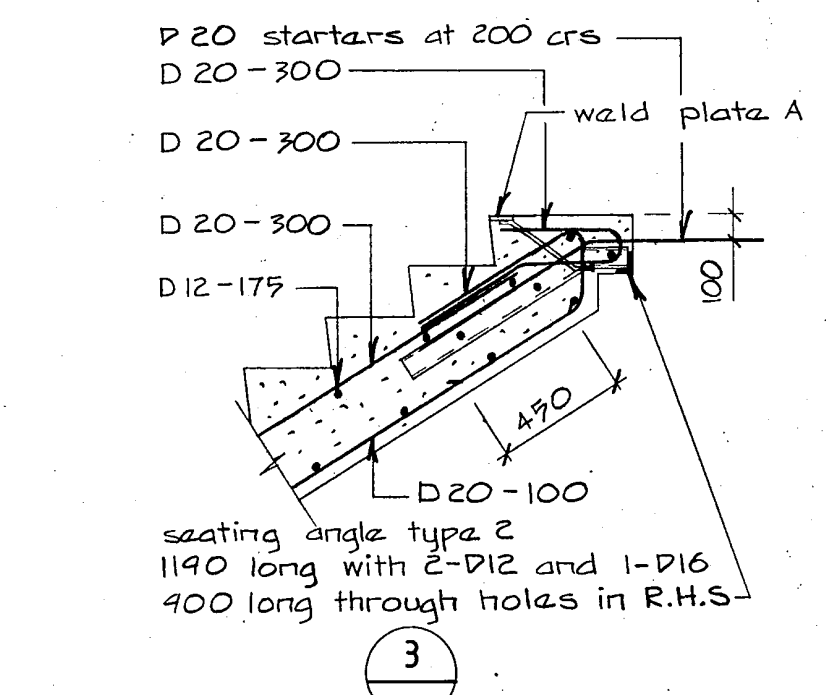
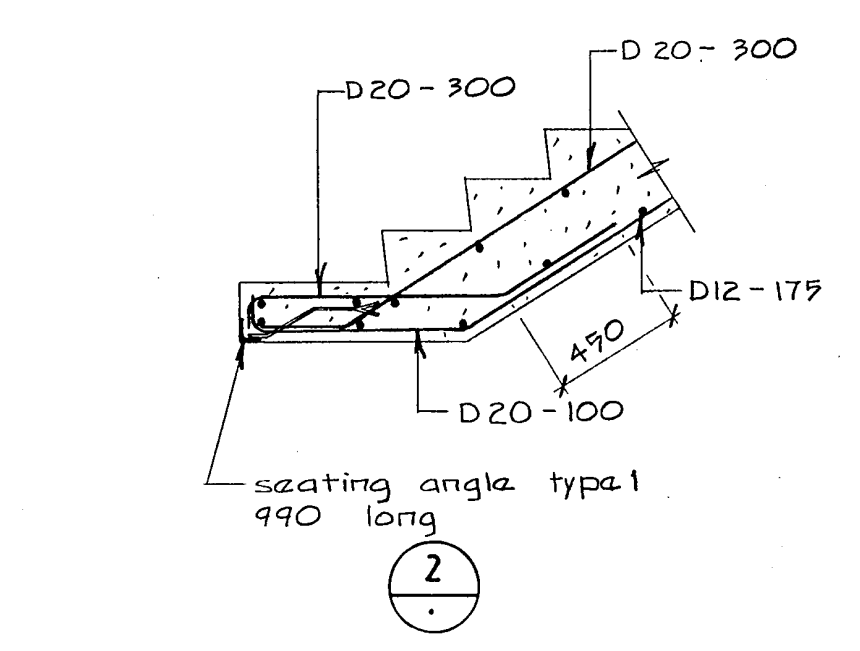
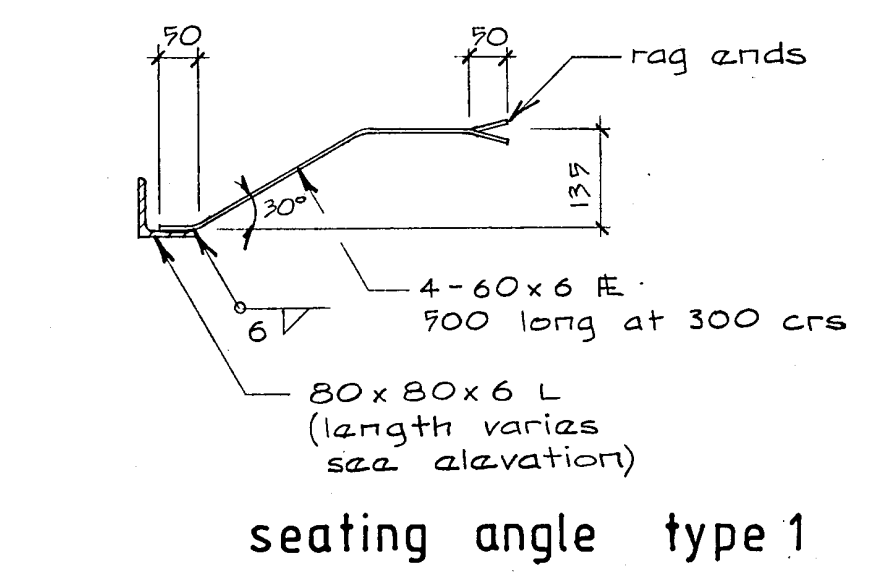
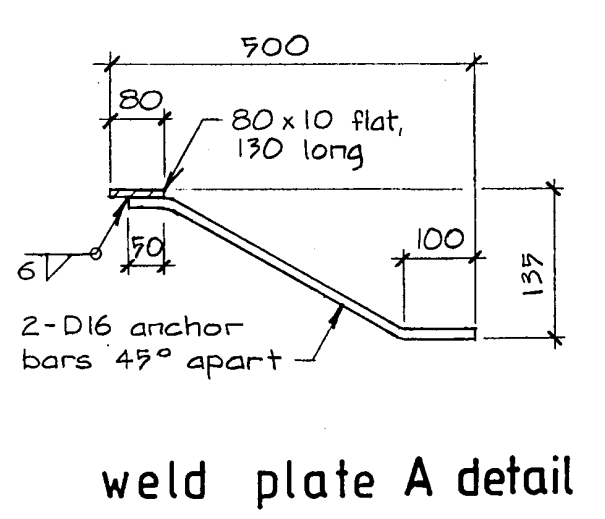
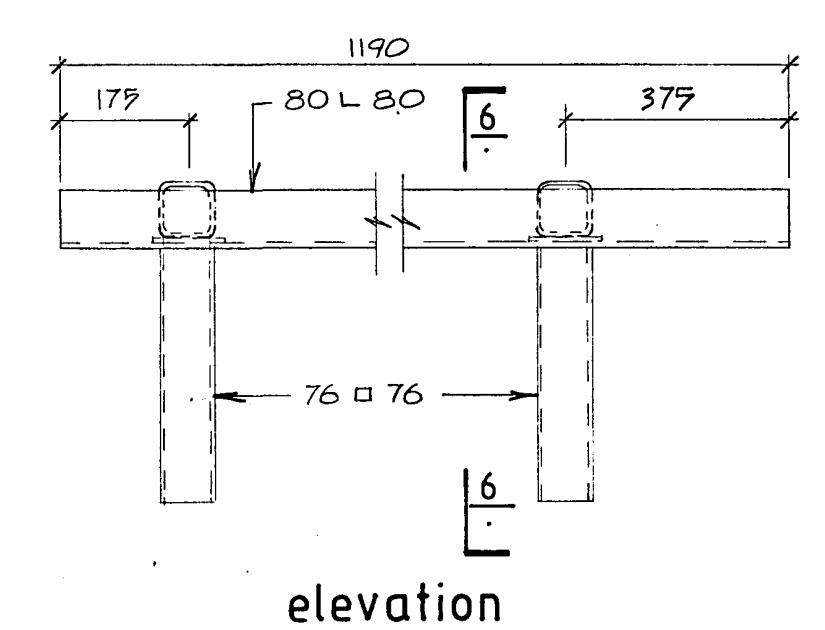
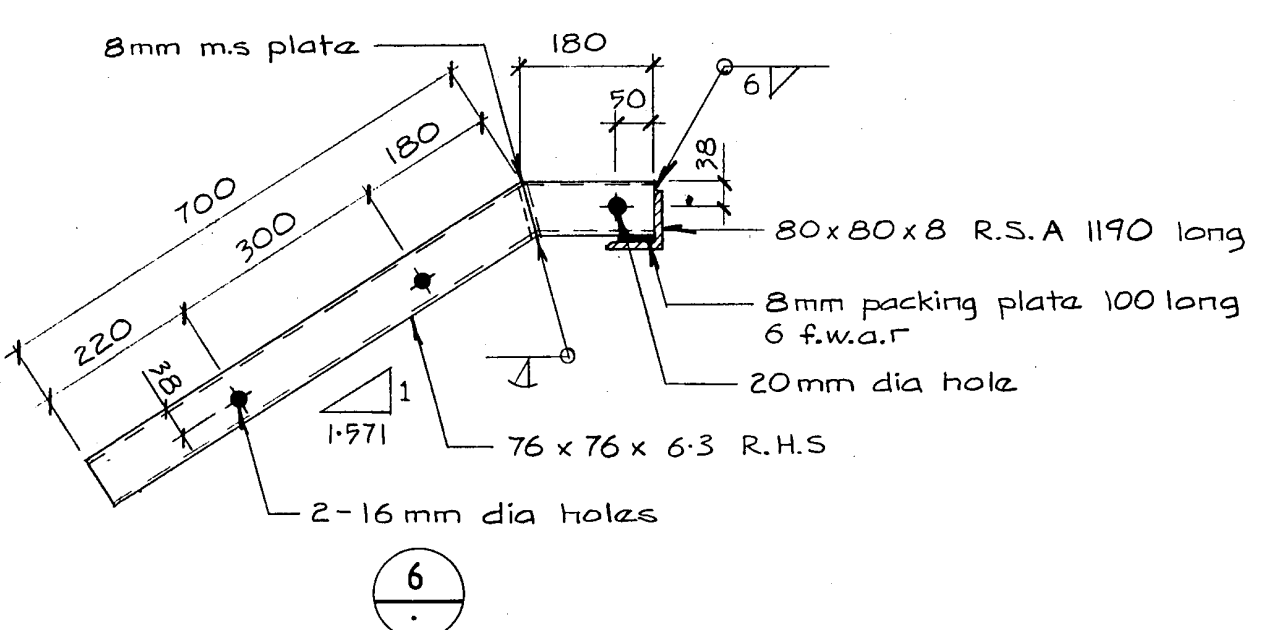
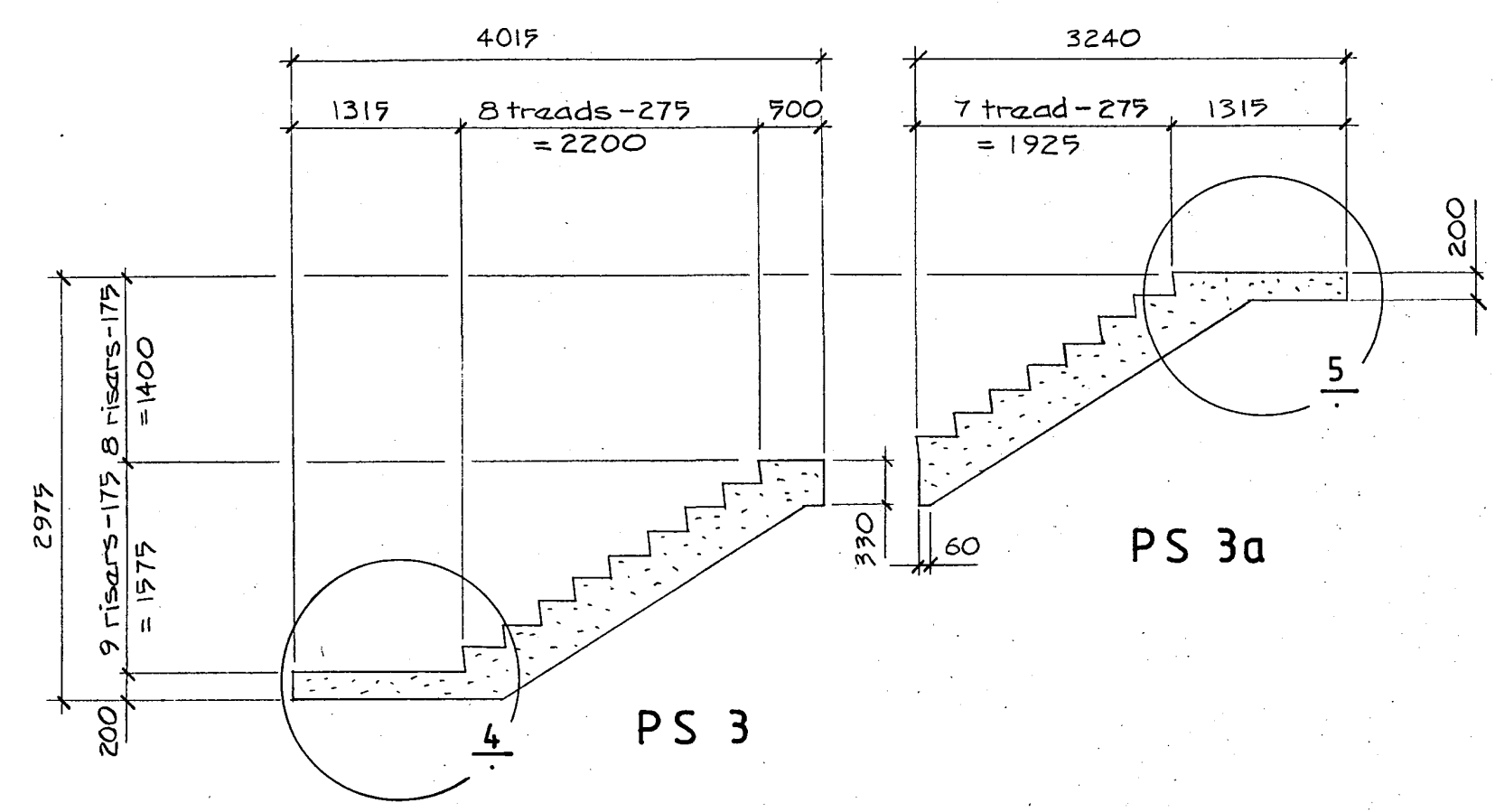
For package number

4	6	7	8	9	10	11	12	13	14	15	17	18	19
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Rev	Date	Amendment
1	4-3-88	Permit



reinforcement and dimensions shall be as for typical flight unless shown otherwise.



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Christchurch, Wellington, New Plymouth, Auckland

LANDMARK TOWER  
CHRISTCHURCH

DRAWN: J.W SCALE: 1:10 1:25 1:50  
APPROVED: R.C.P.

SHEET TITLE:  
PRECAST STAIRS  
PS 1 TO PS 3

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
For Engineer

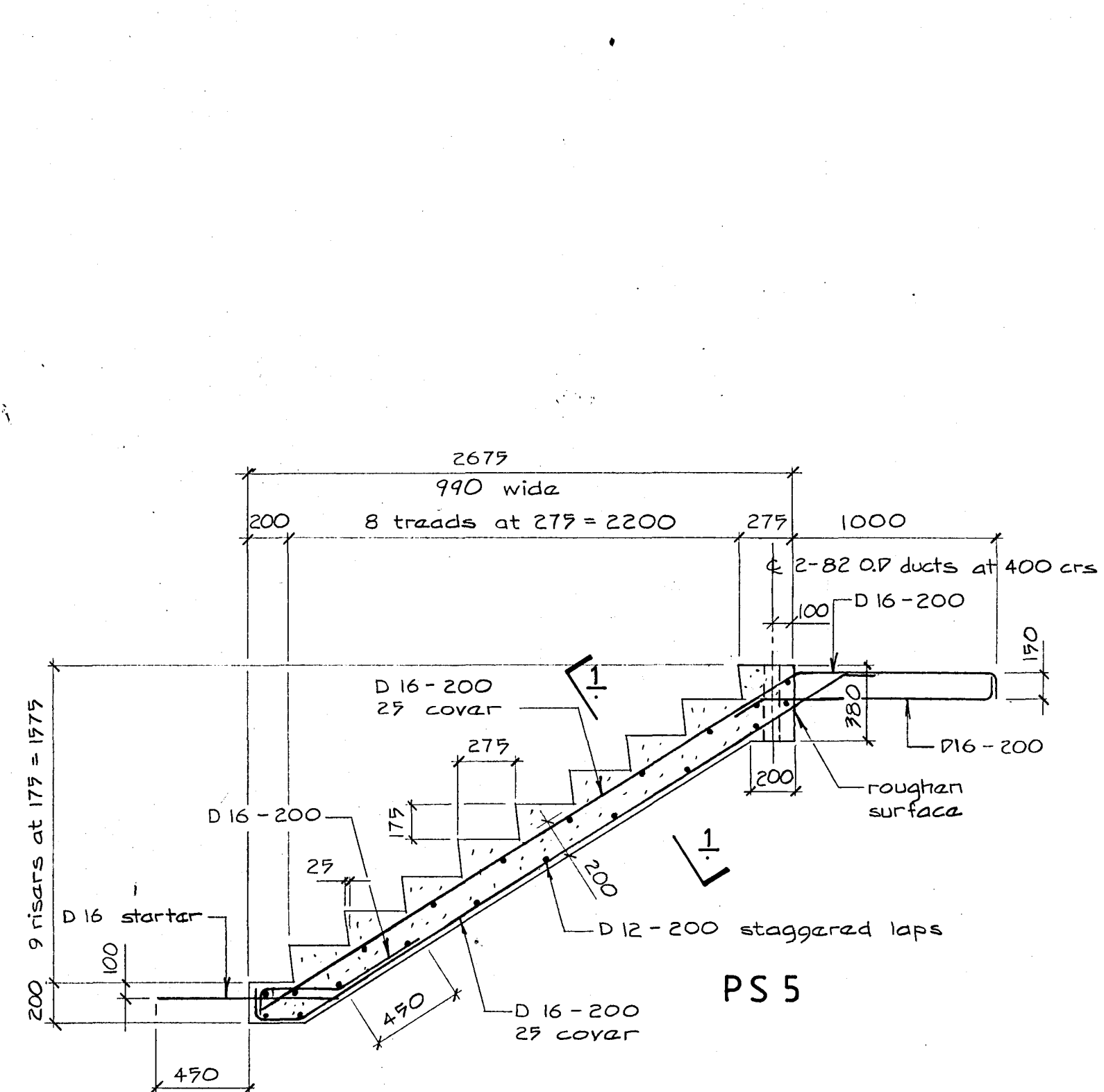
JOB NO: 2281 SHEET NO: S 215 REV: 1

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

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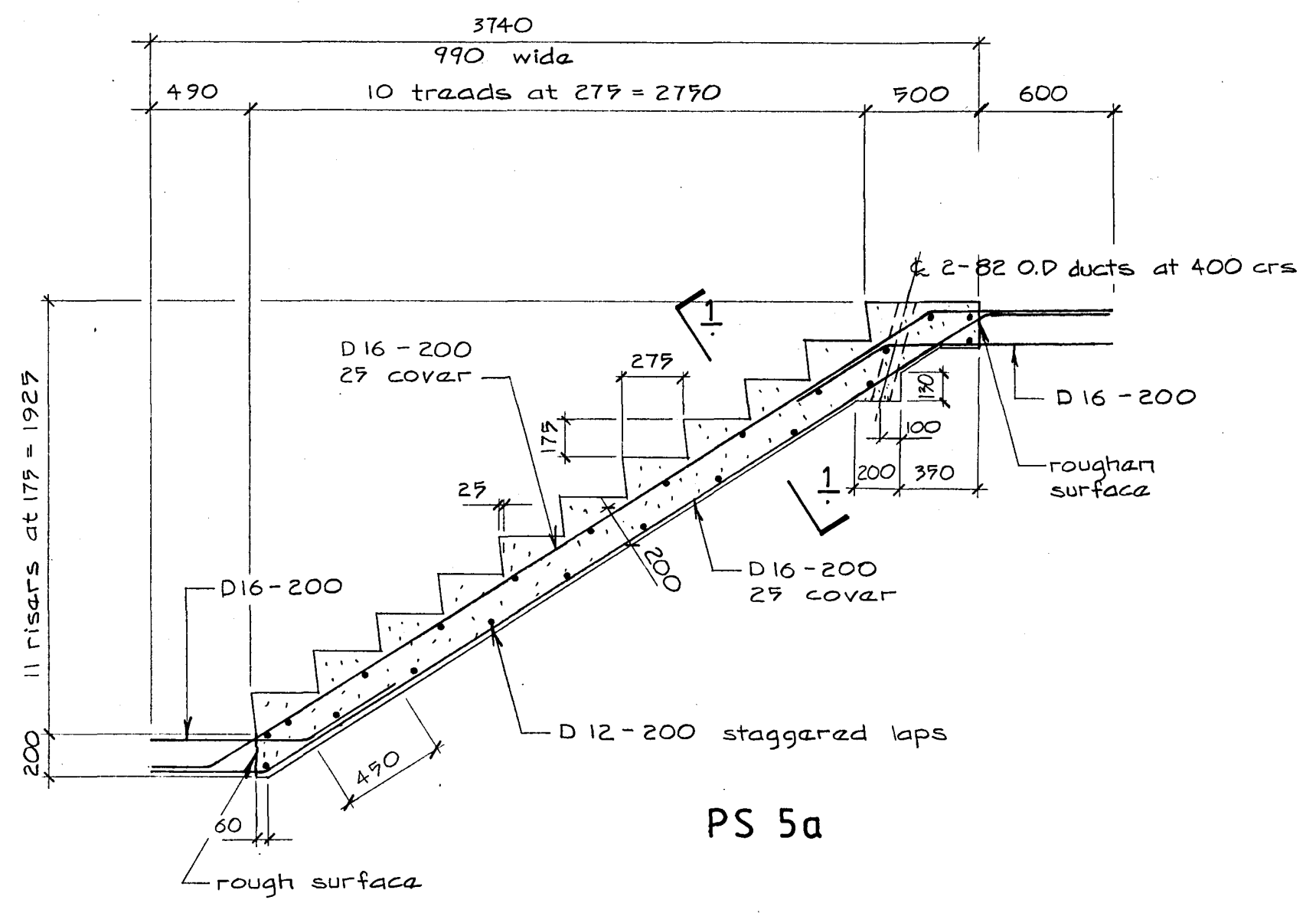
Rev	Date	Amendment
1	4-3-88	Permit



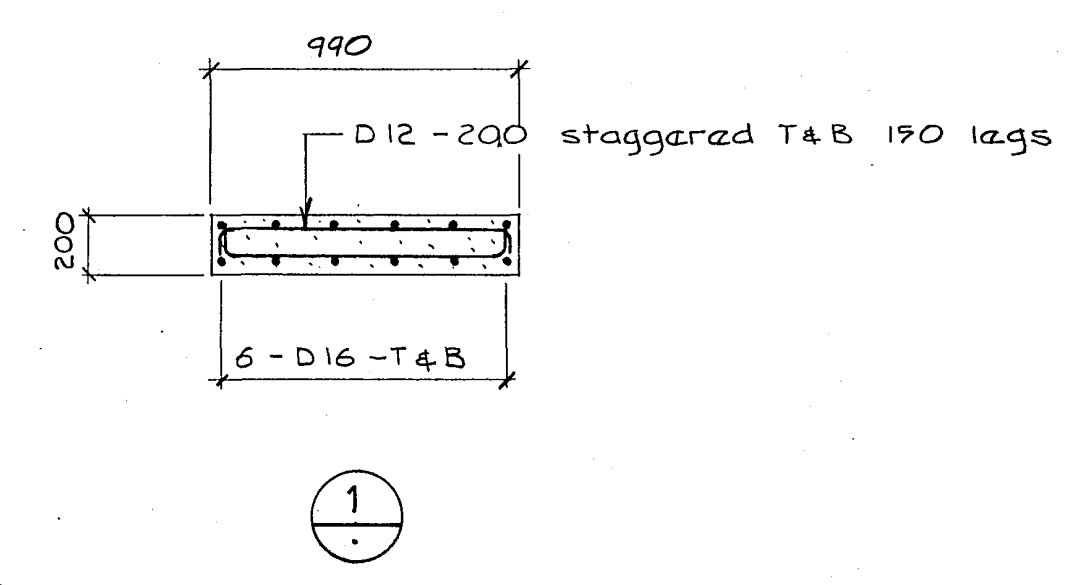
PS 5

elevation

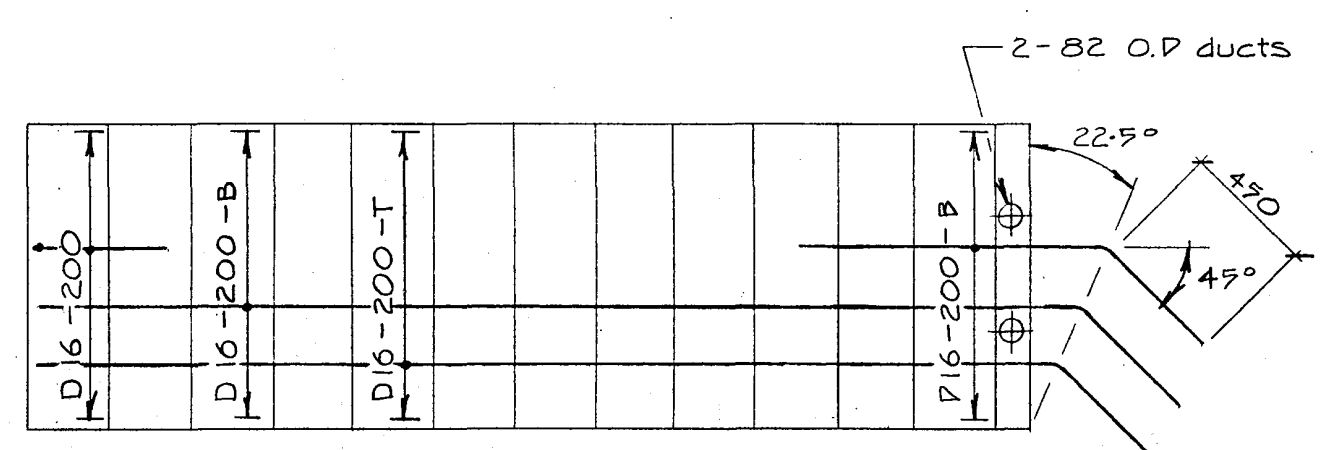
all longitudinal flight reinforcement shall be placed to facilitate on site lapping



PS 5a

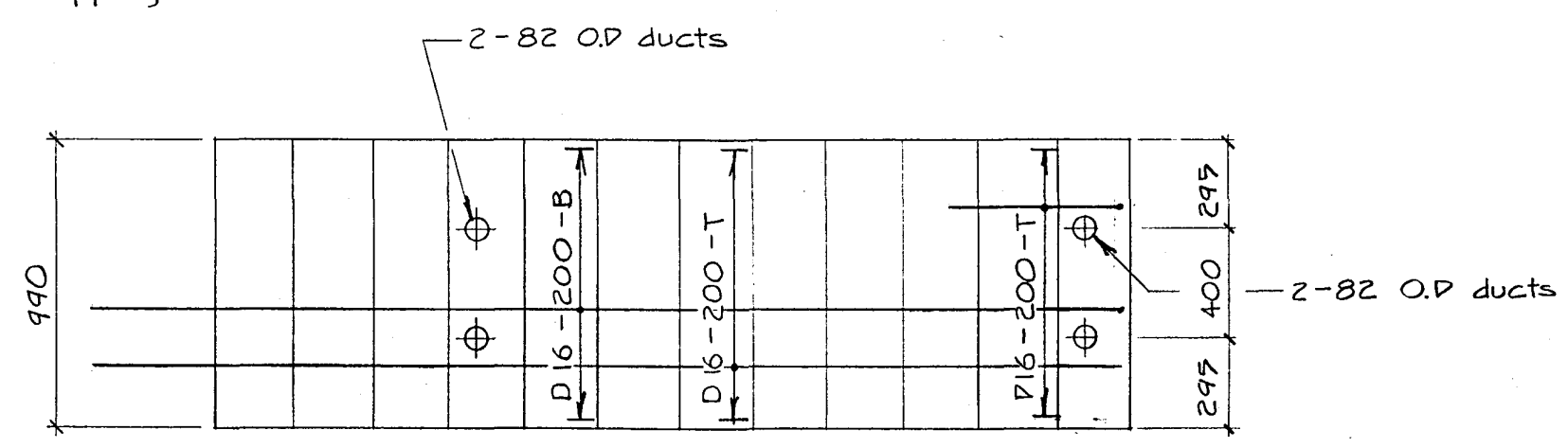


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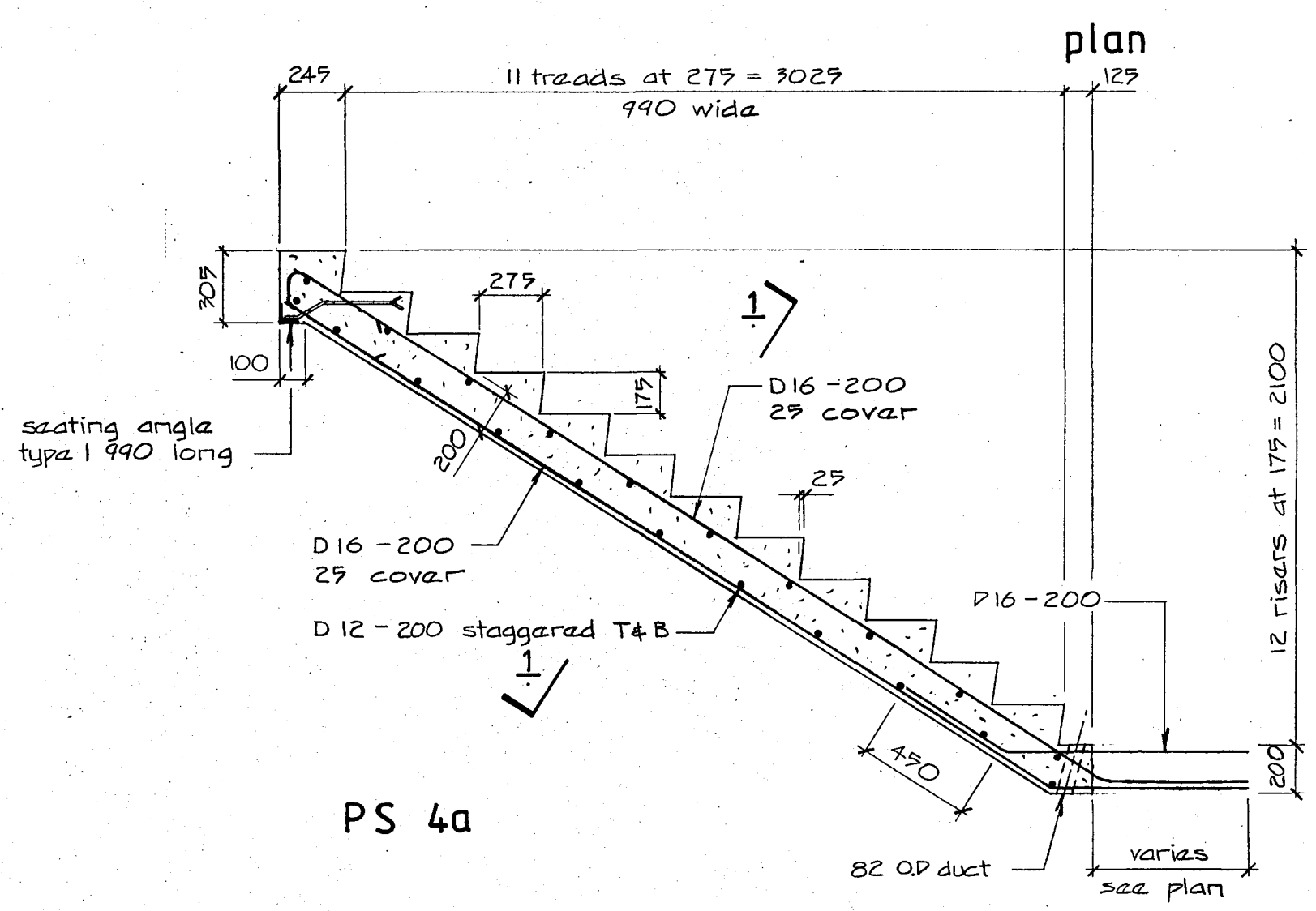


PS 4a

Note: Transverse flight reinforcement not shown for clarity.

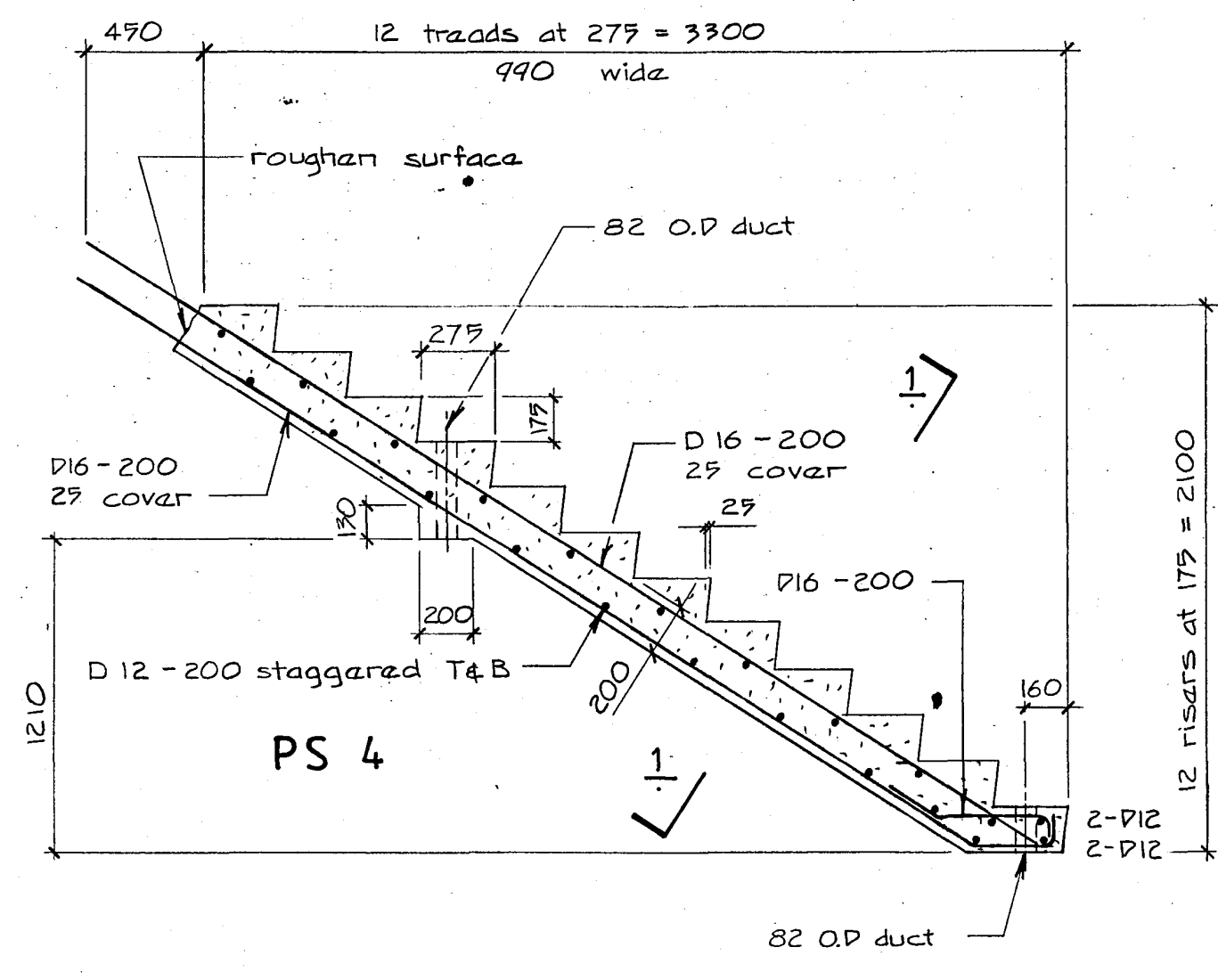


PS 4



PS 4a

elevation



PS 4

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Christchurch, Wellington & Auckland

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STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

LANDMARK TOWER  
CHRISTCHURCH

DRAWN: J.W. SCALE: 1:25  
APPROVED: R.A.P.

SHEET TITLE:  
PRECAST STAIRS  
PS 4 TO PS 5

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
Engineer

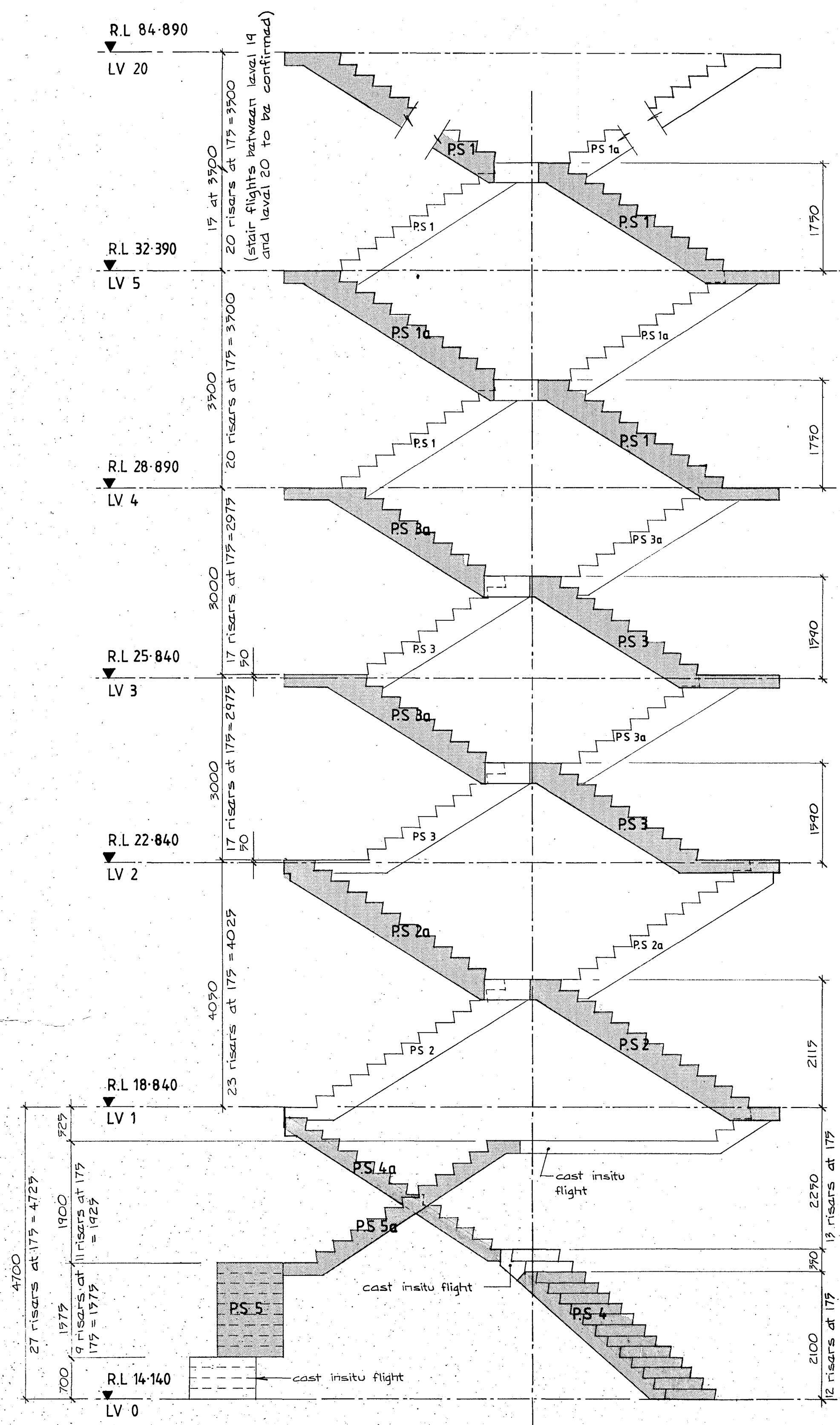
JOB NO: 2281 SHEET NO: S 216 REV: 1

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

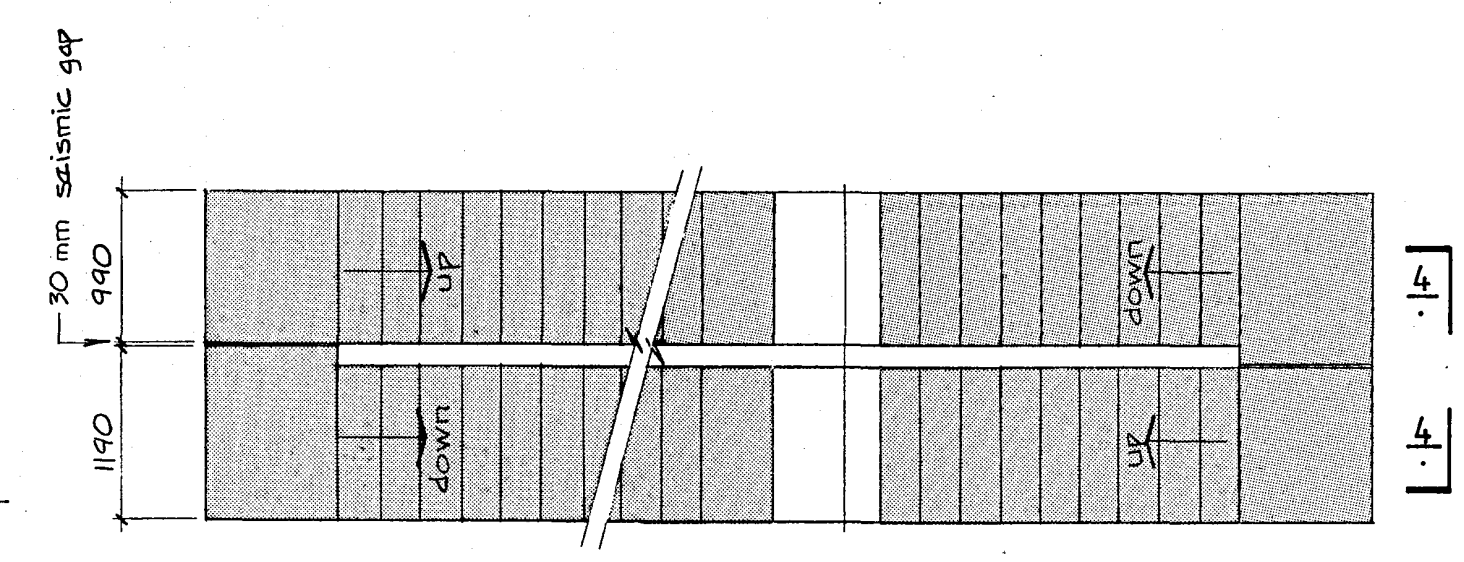
For package number

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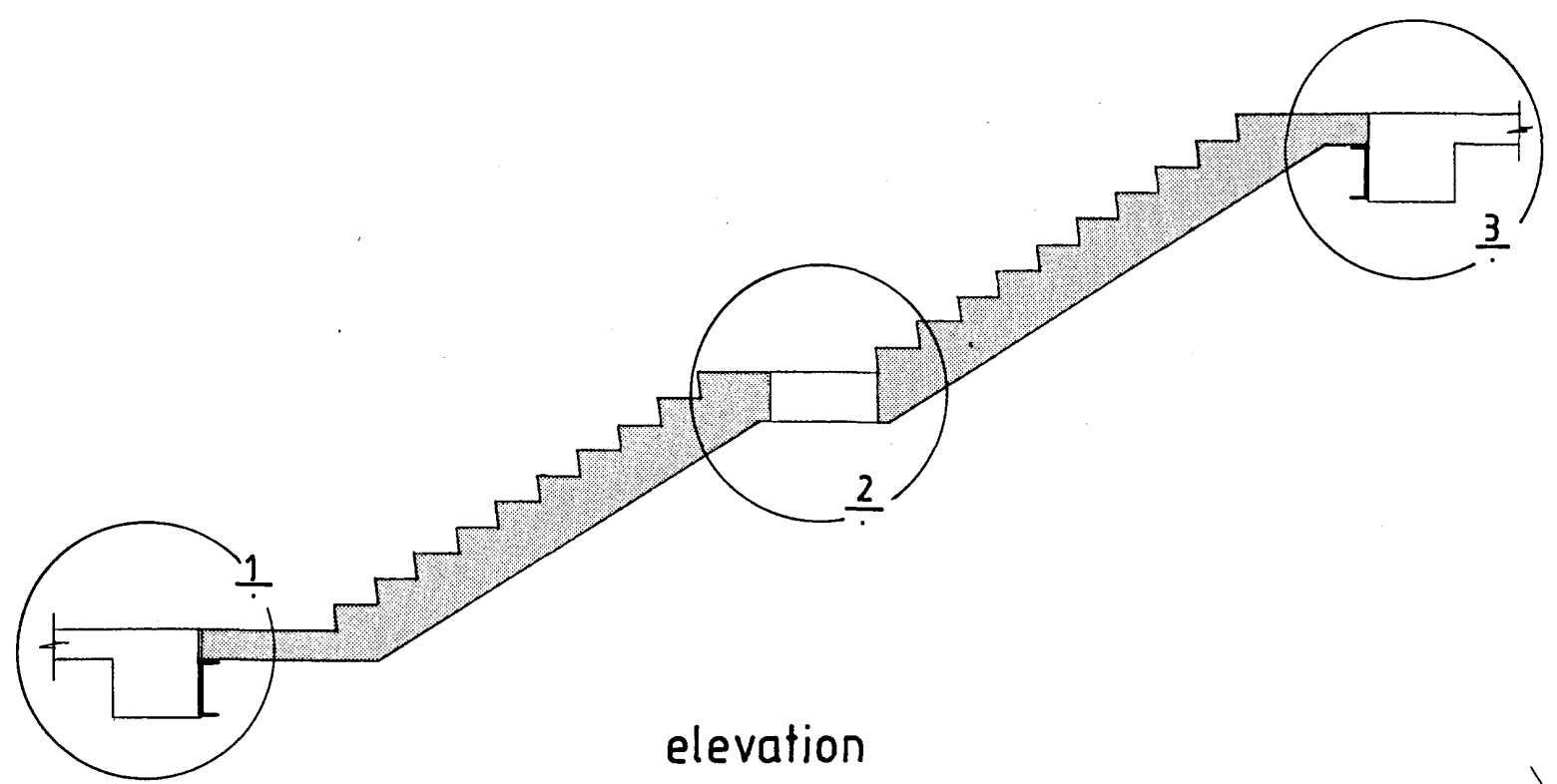
Rev	Date	Amendment
1	4-3-88	Permit



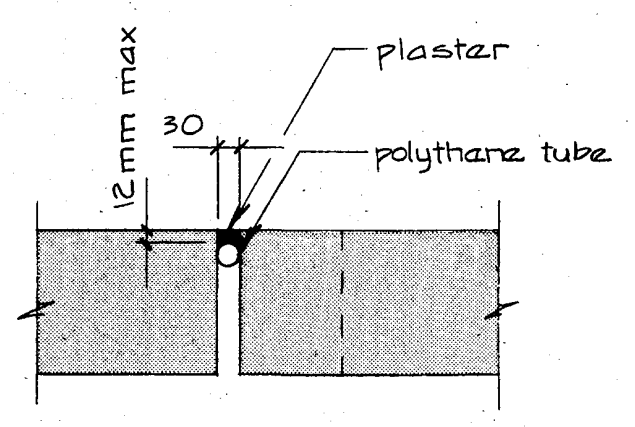
stair elevation



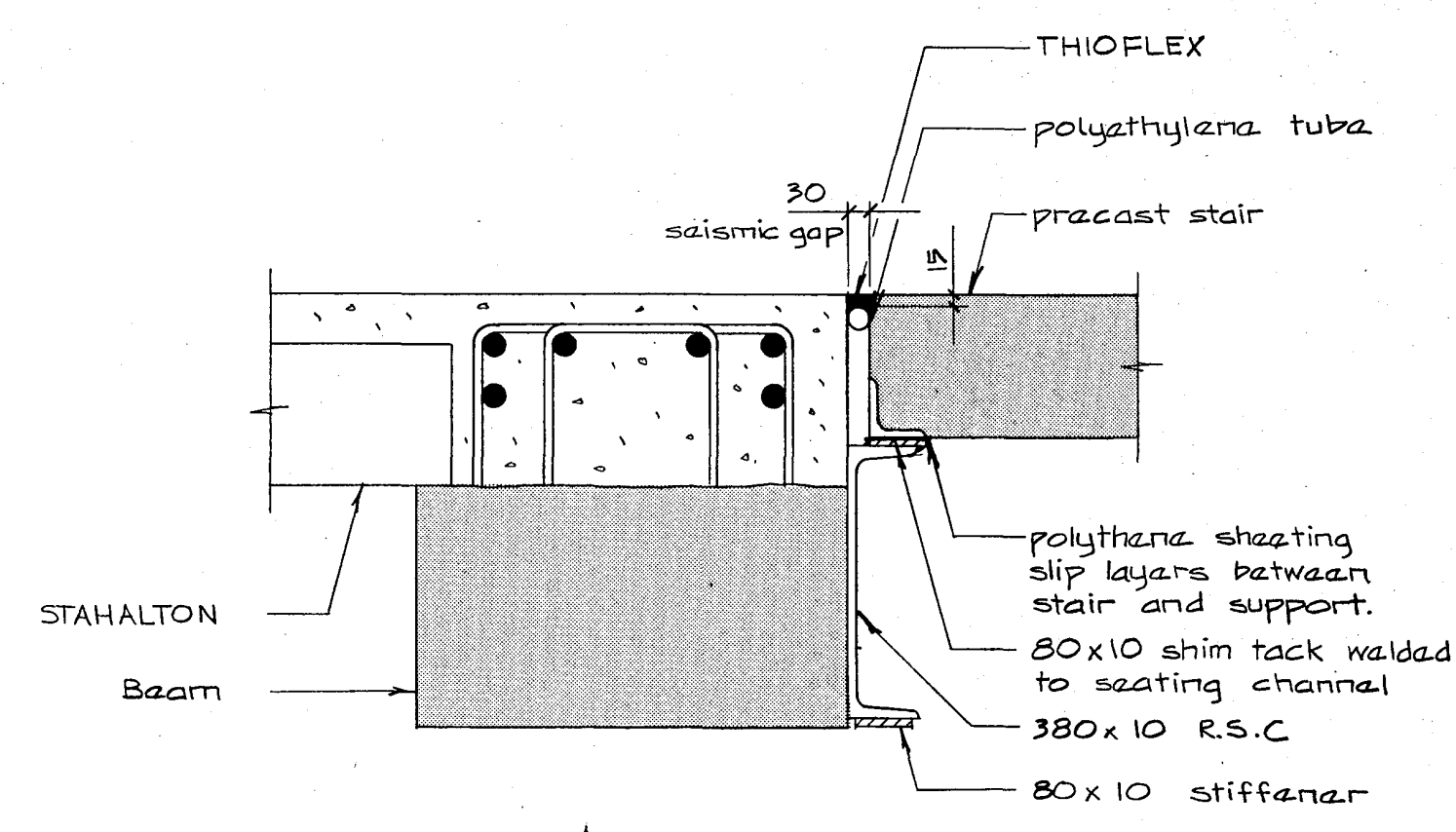
plan



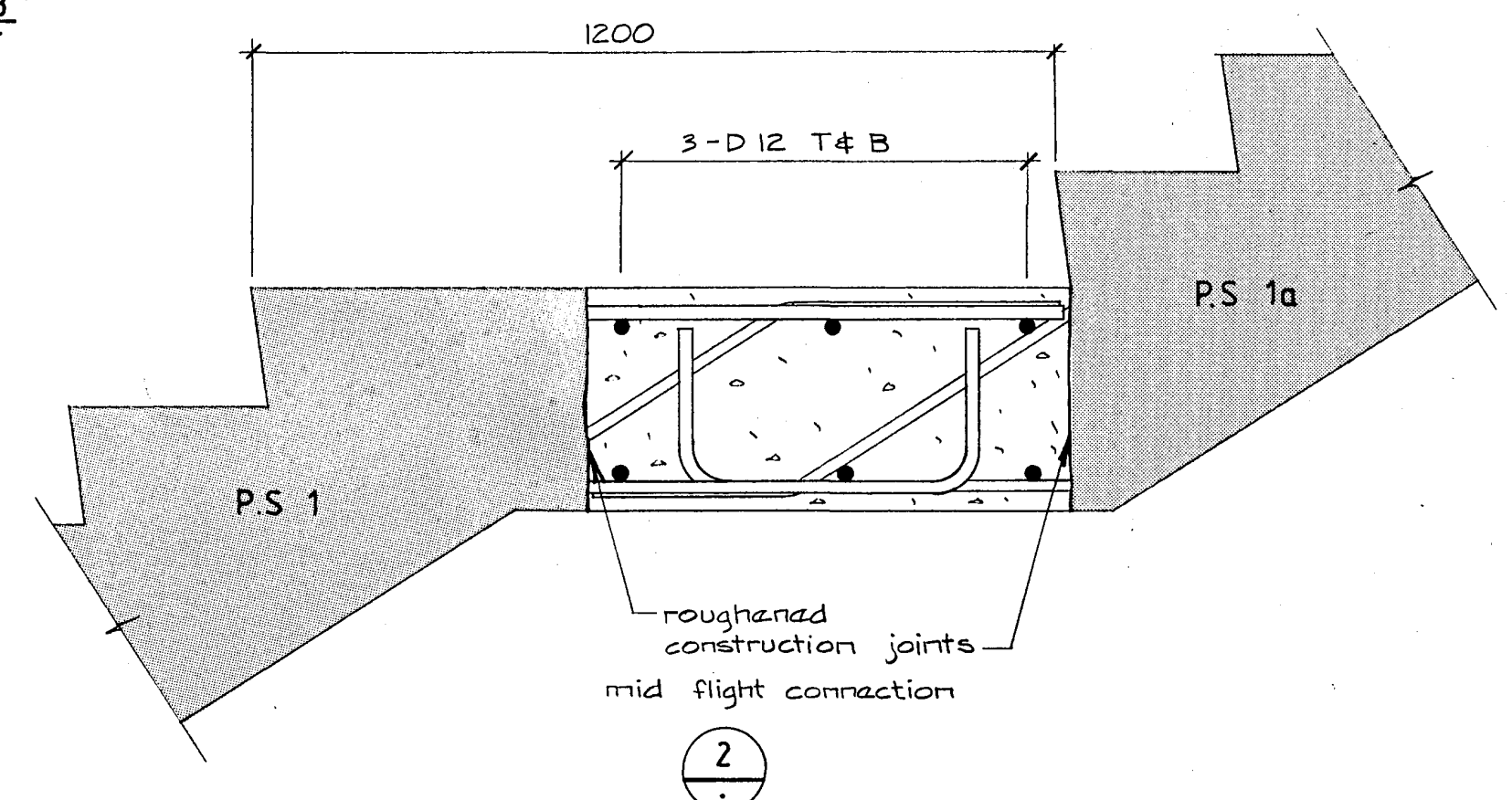
elevation  
(typical stair flight connection)



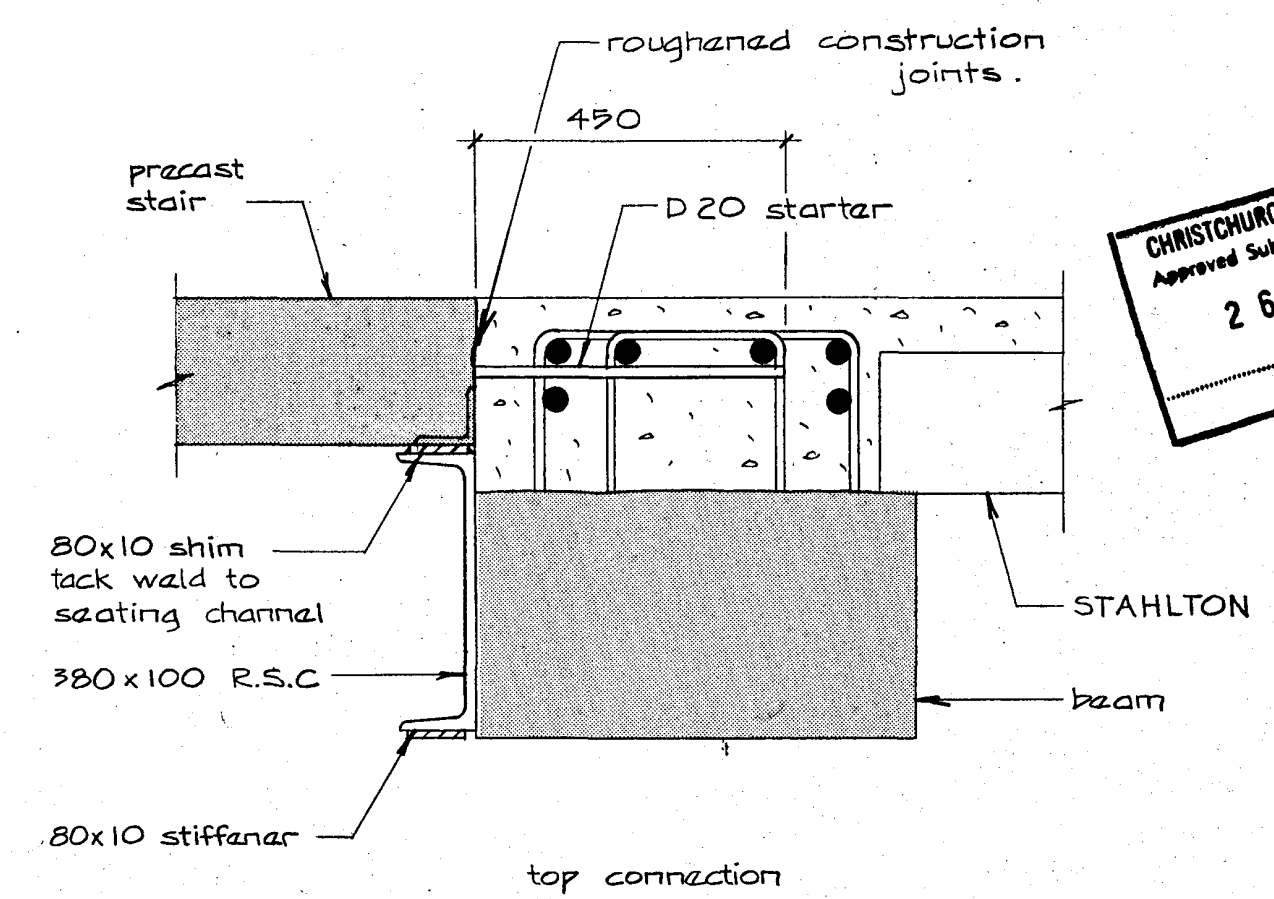
4



bottom connection  
1  
sliding detail



2



3  
fixed detail

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Christchurch, Wellington, New Plymouth, Auckland

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-laws  
26 APR 1988  
Engineer

LANDMARK TOWER  
CHRISTCHURCH

DRAWN: J.W. SCALE: 1:50 1:10  
APPROVED: R.A.P.

SHEET TITLE:  
PRECAST STAIR CONNECTIONS  
AND LAYOUT

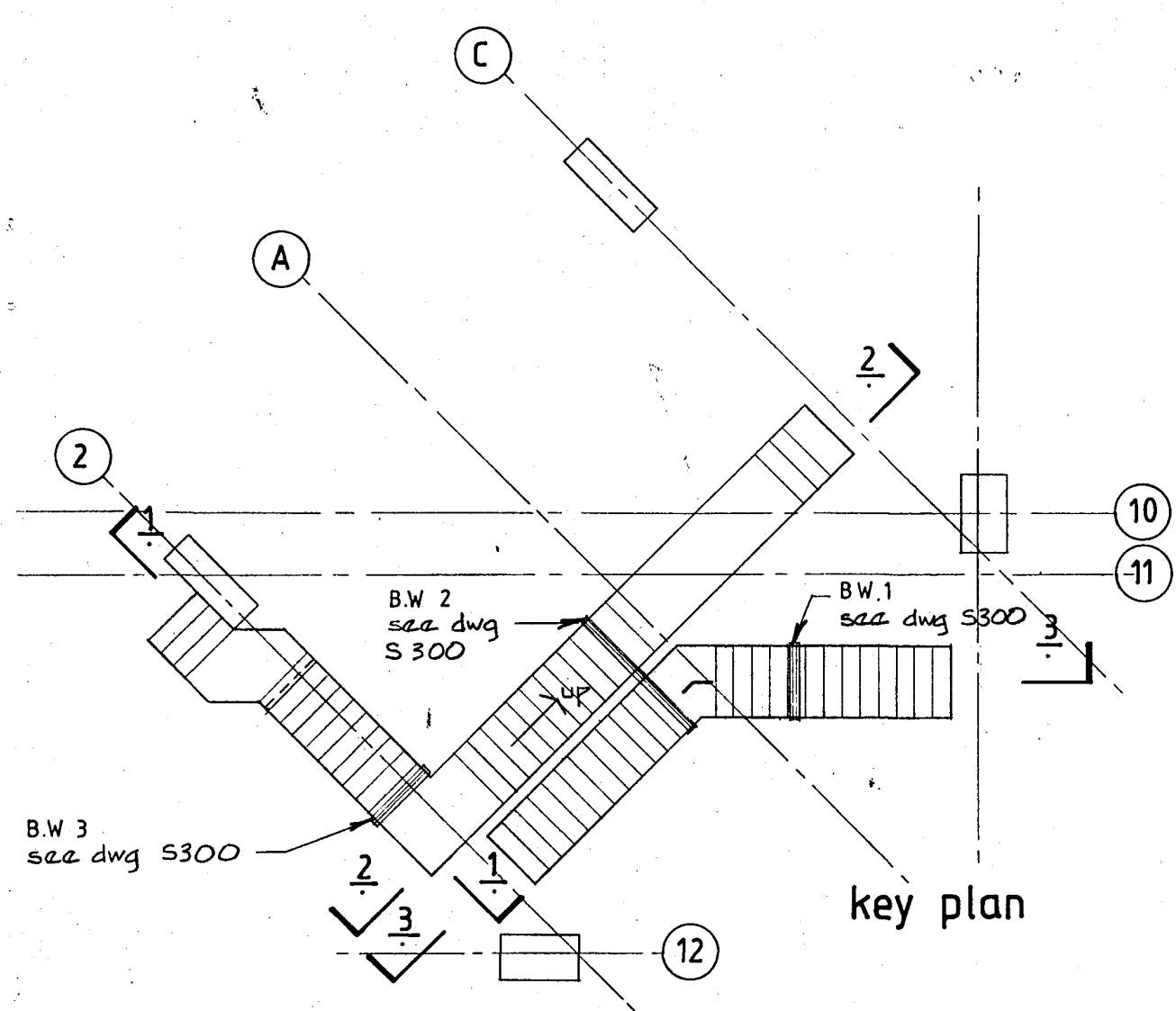
JOB NO: 2281 SHEET NO: S 217 REV: 1

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

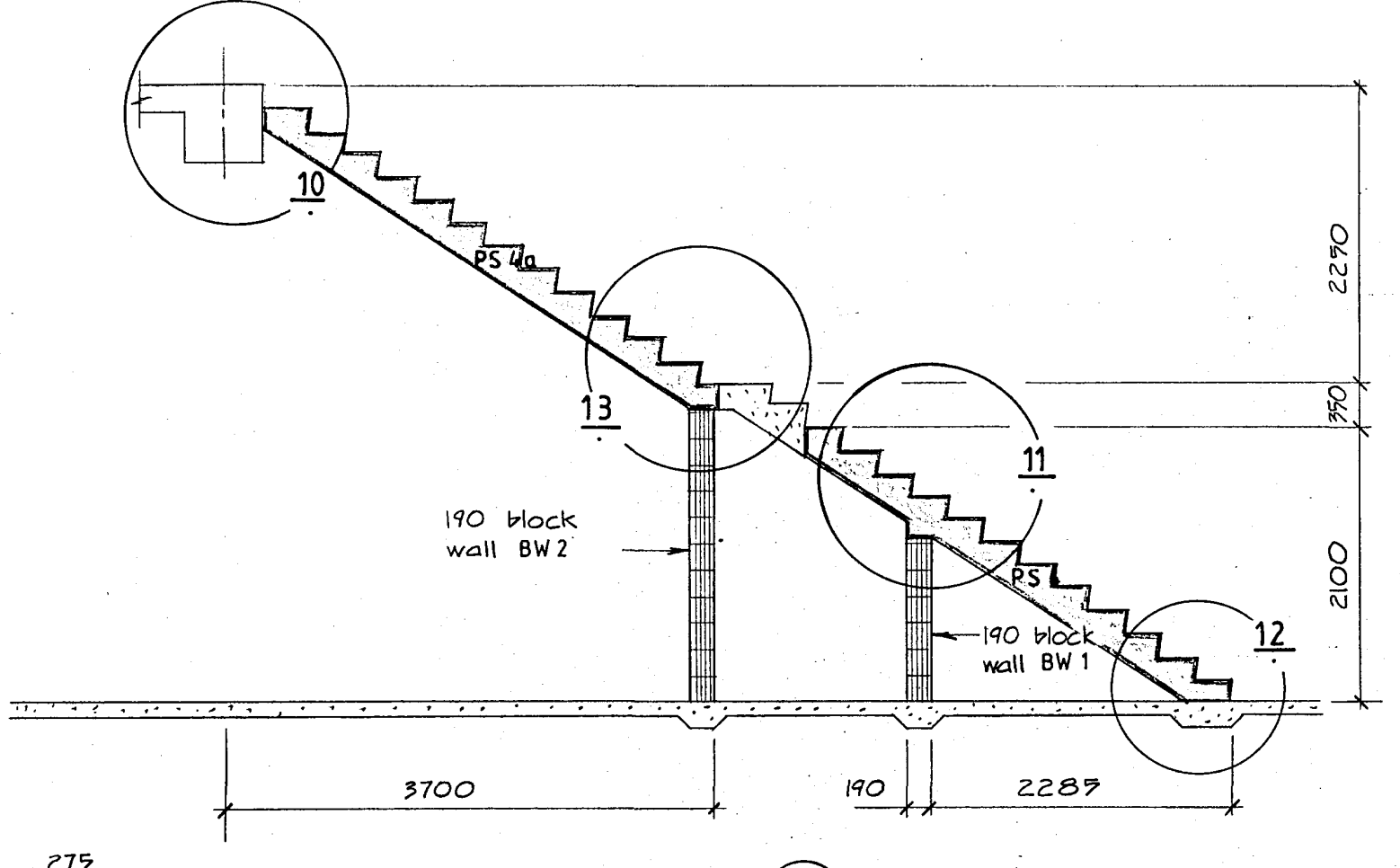
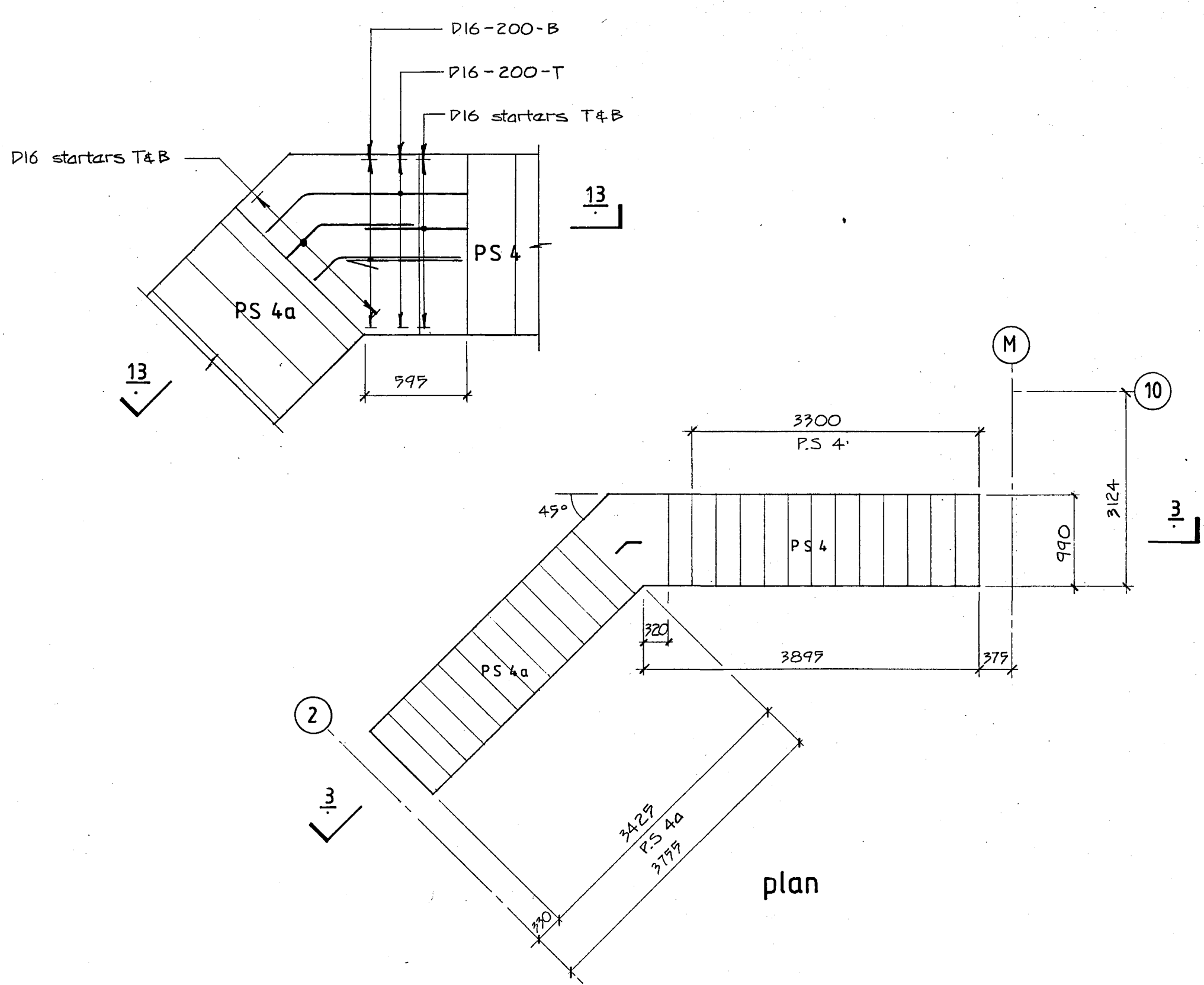
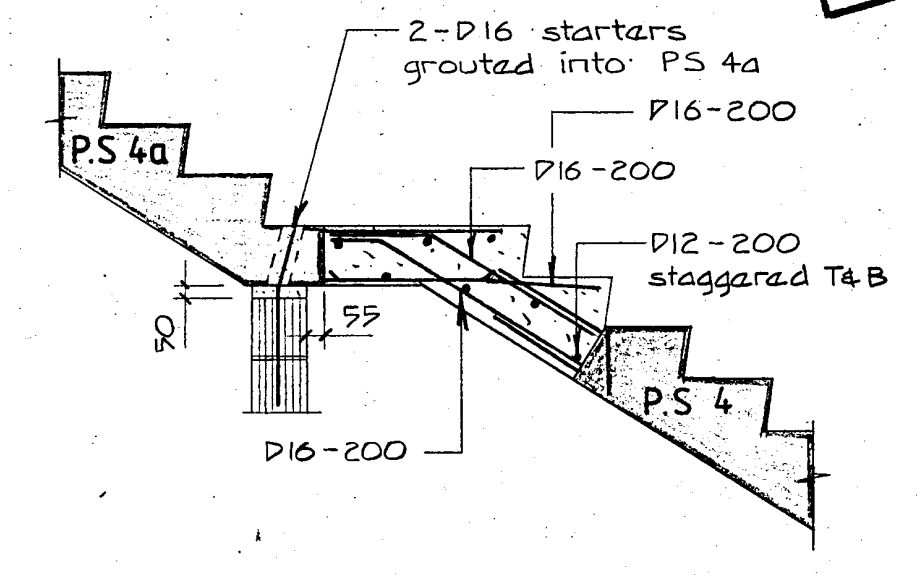
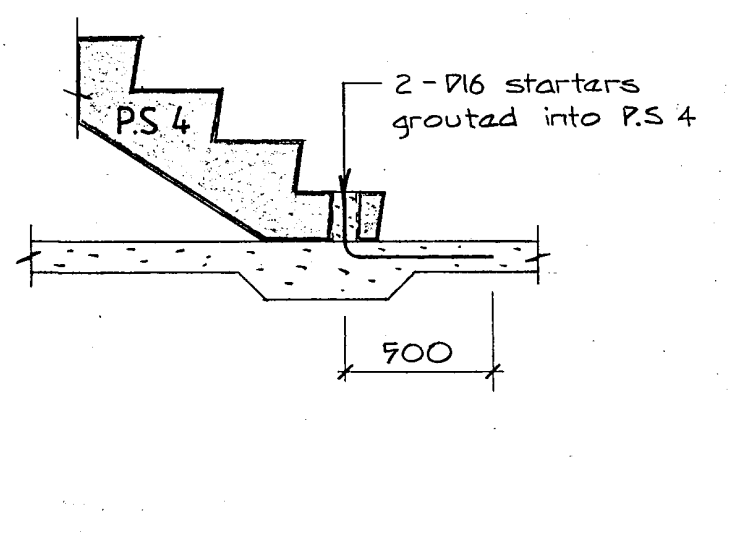
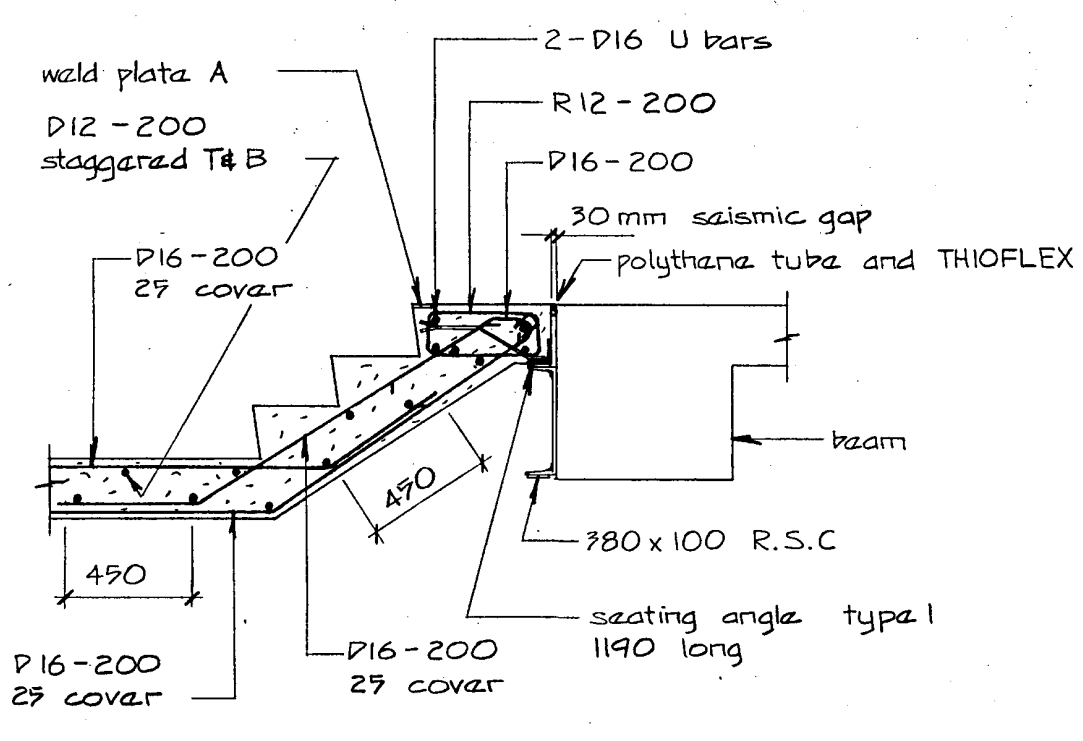
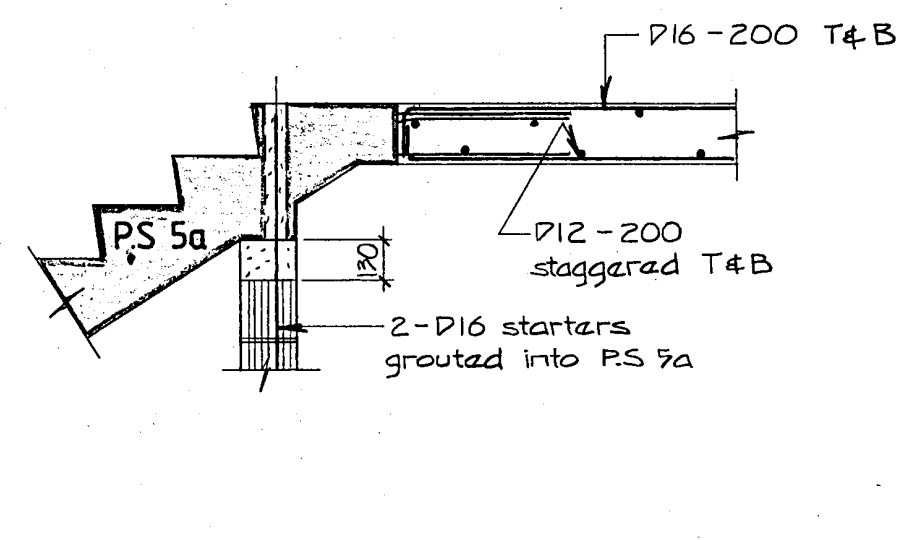
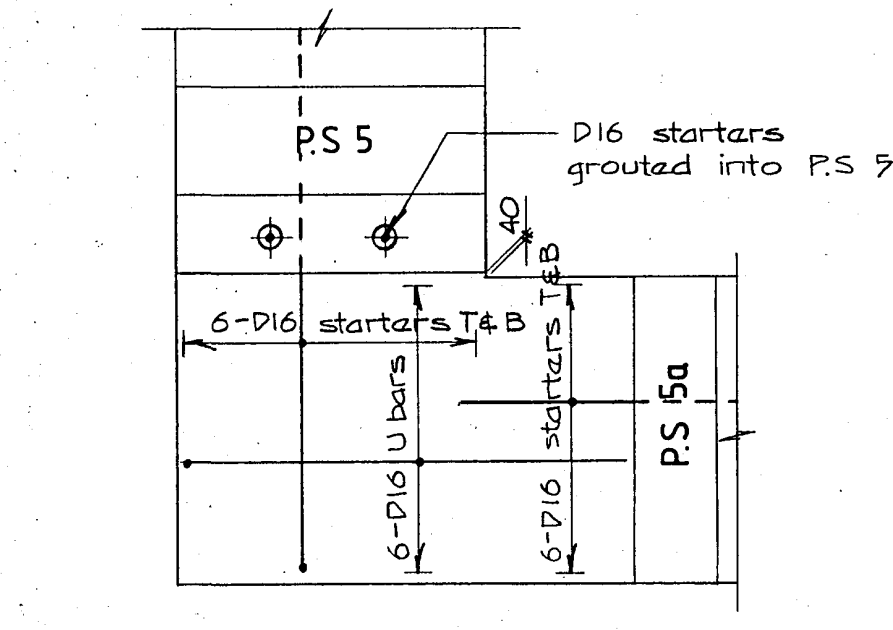
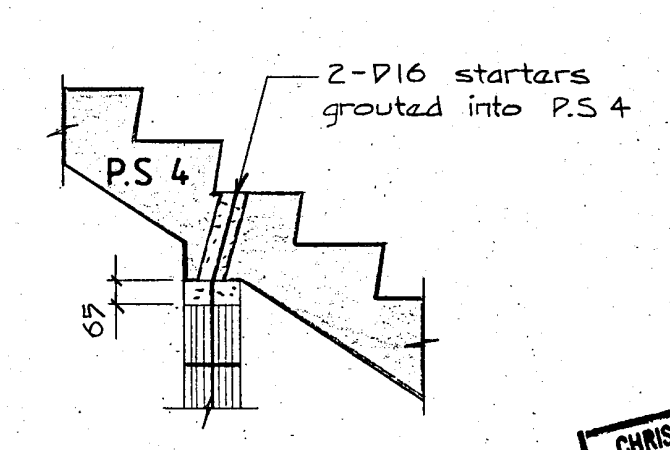
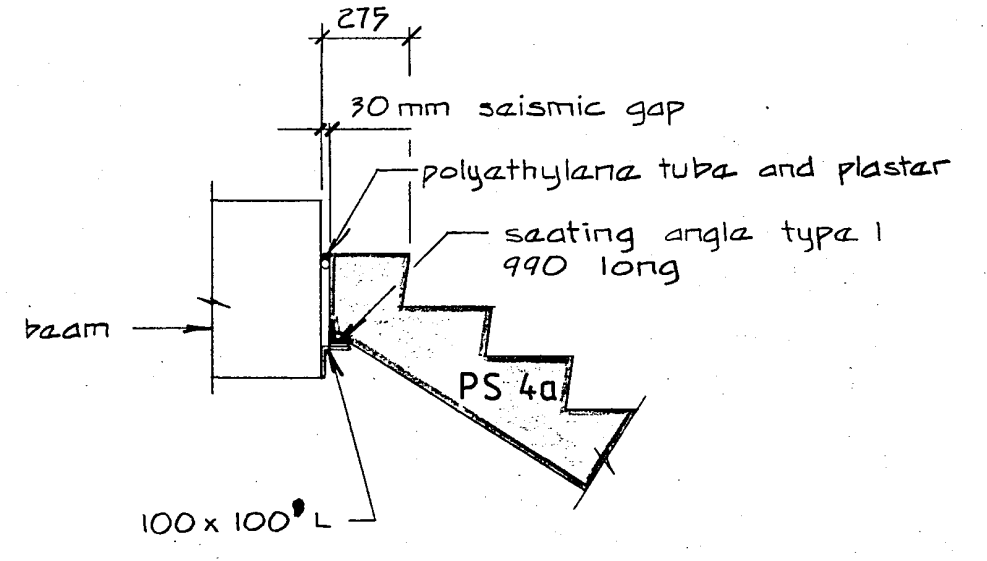
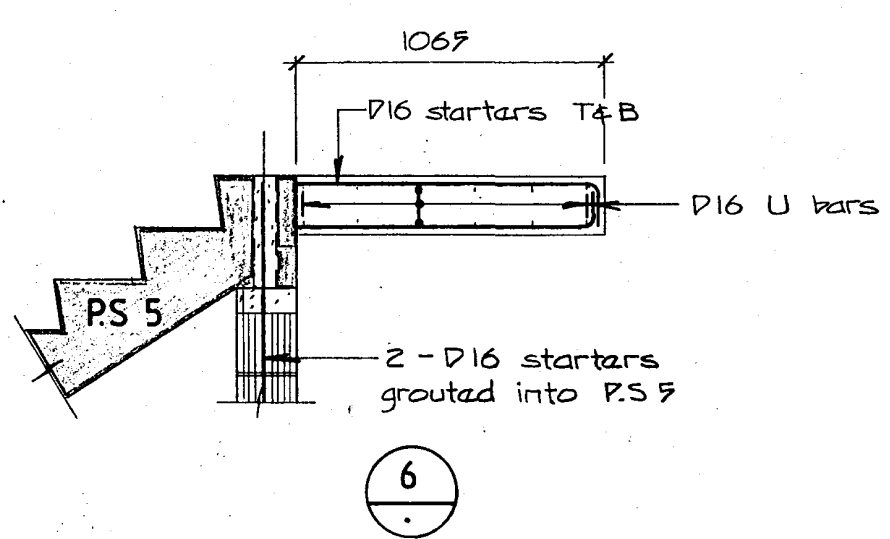
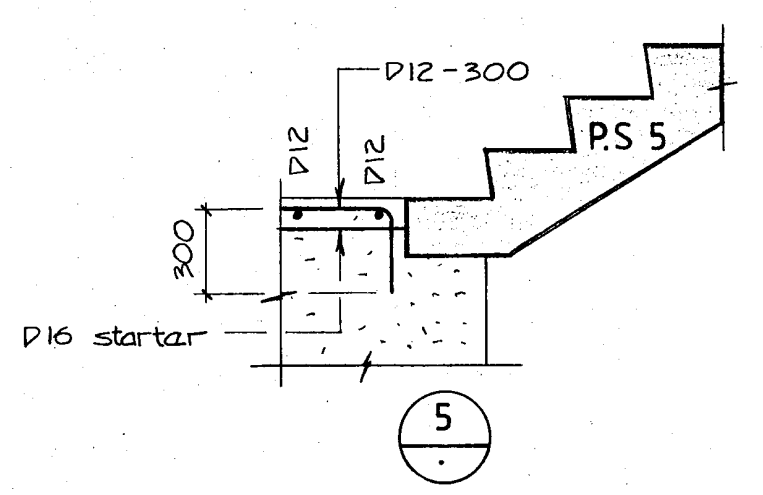
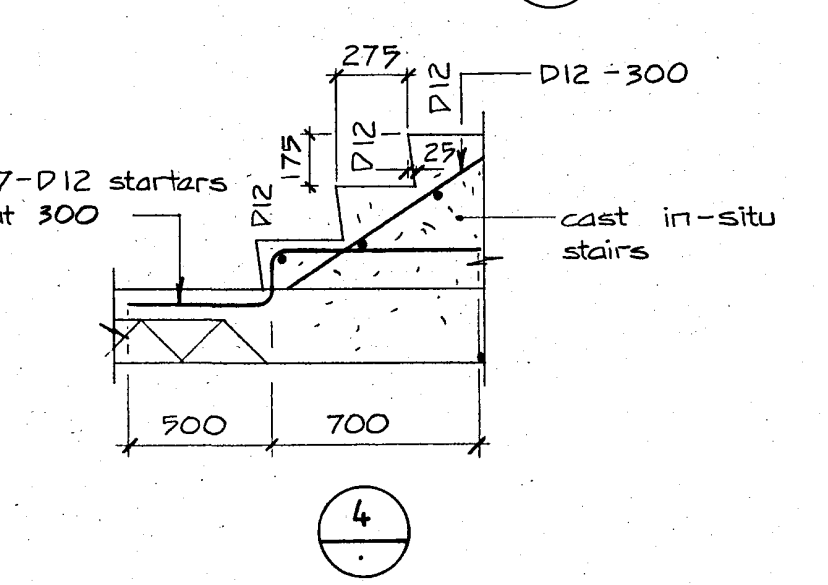
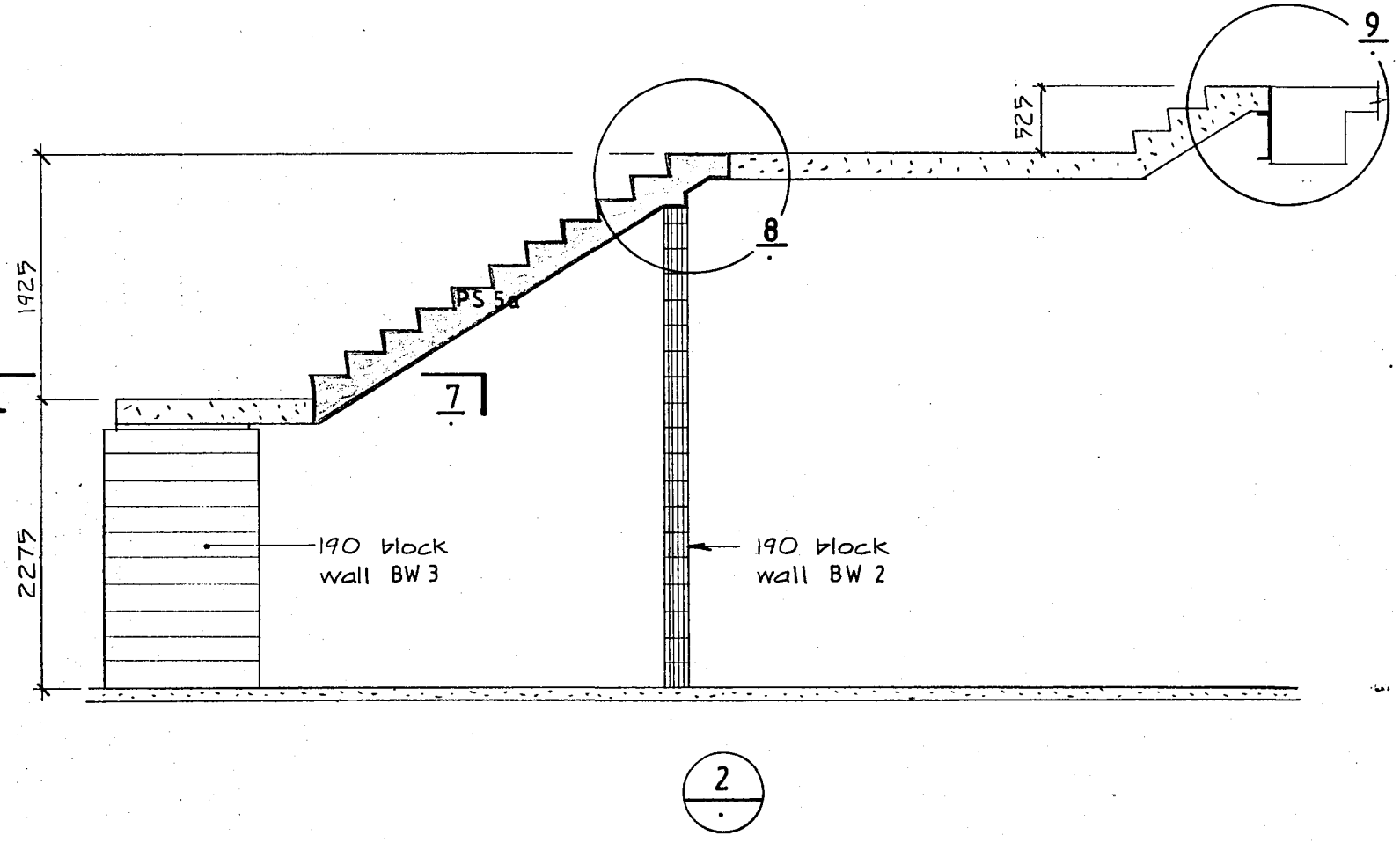
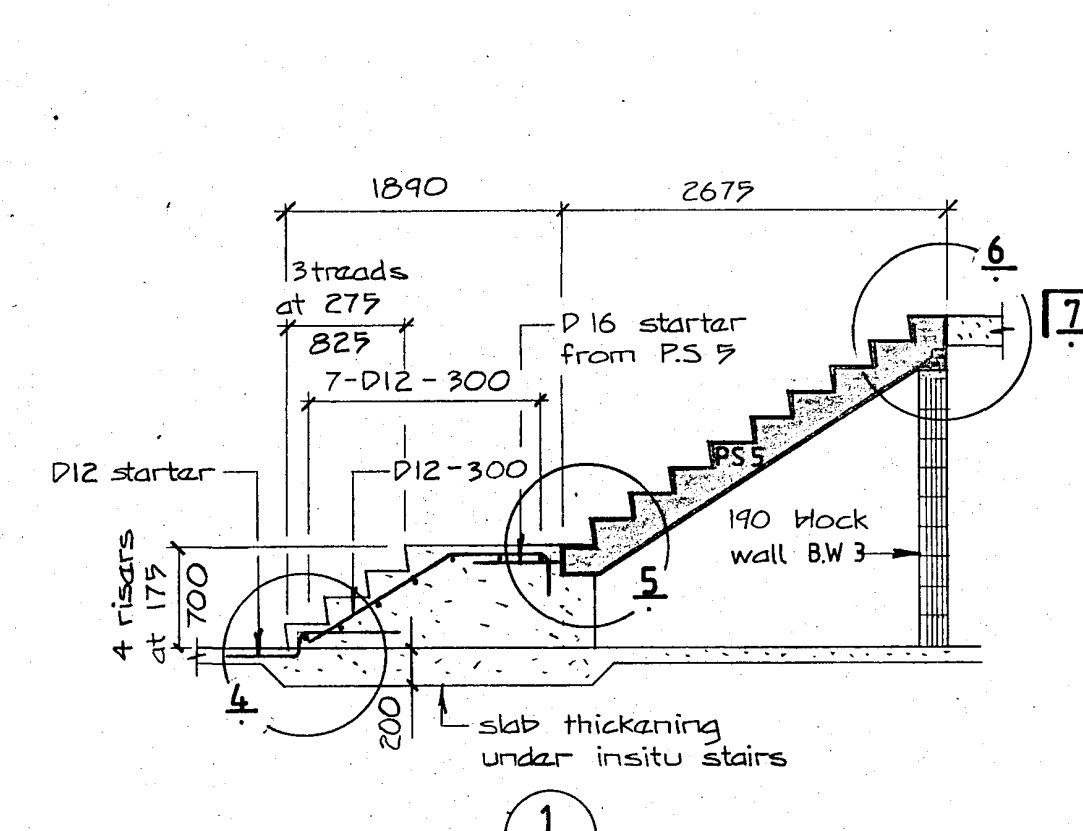
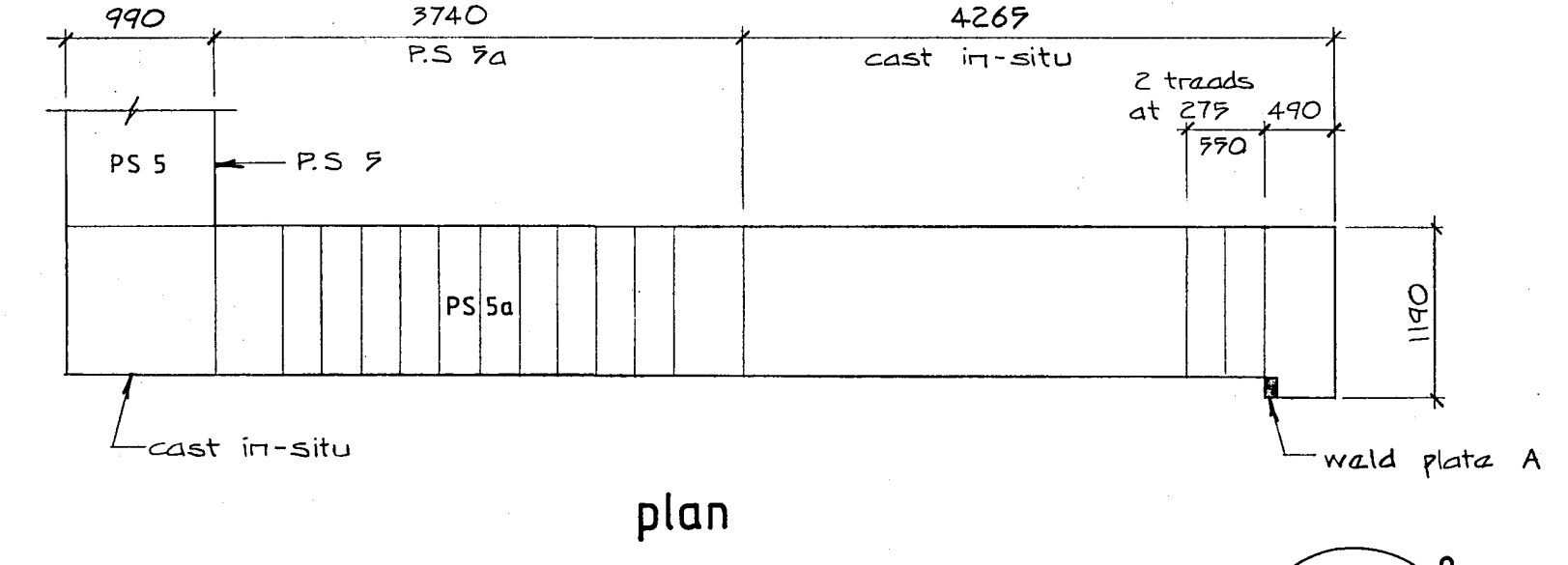
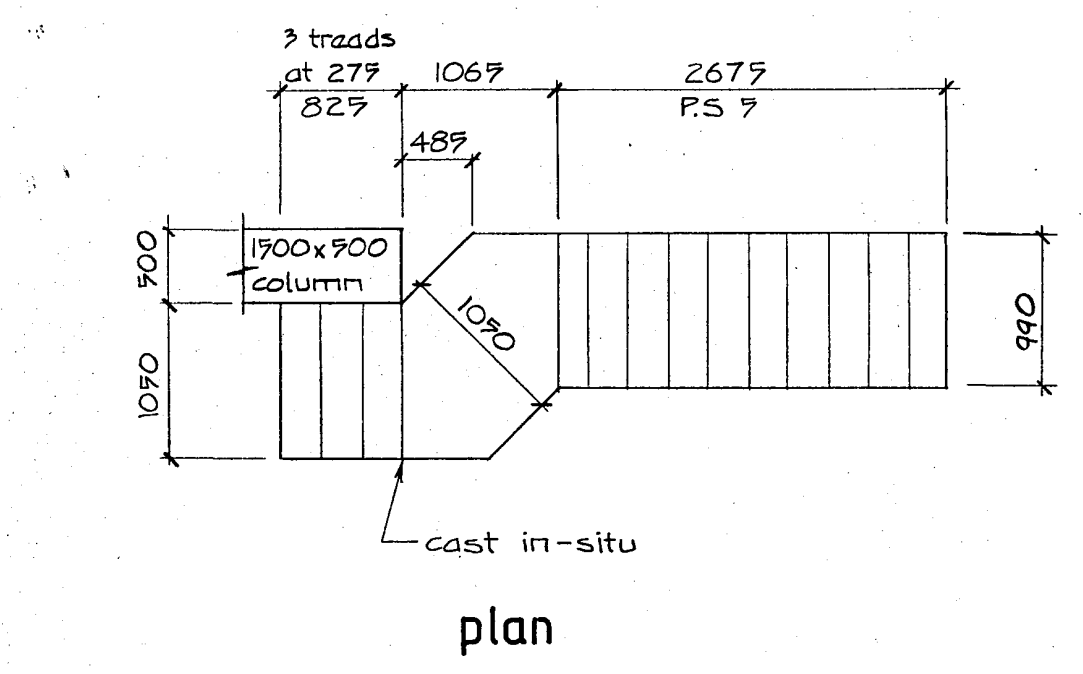
For package number

4	6	7	8	9	10	11	12	13	14	15	17	18	19
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Rev	Date	Amendment
1	4-3-88	Permit



• for weld plate and seating angle details see dwg S219  
 • this drawing shall be read in conjunction with dwg S217



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 STRUCTURAL AND CIVIL ENGINEERS  
 Christchurch, Wellington, New Plymouth, Auckland

CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 28 APR 888  
 For Engineer

LANDMARK TOWER  
 CHRISTCHURCH

DRAWN: J.W SCALE: 1:100 1:50 1:25  
 APPROVED: R.A.P.

SHEET TITLE:  
 PRECAST STAIR CONNECTIONS  
 AND IN-SITU STAIR DETAILS

JOB NO: 2281 SHEET NO: S218 REV: 1



ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

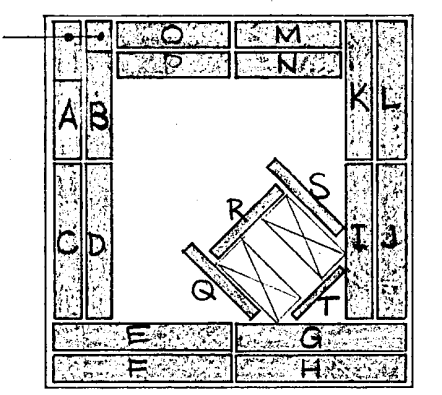
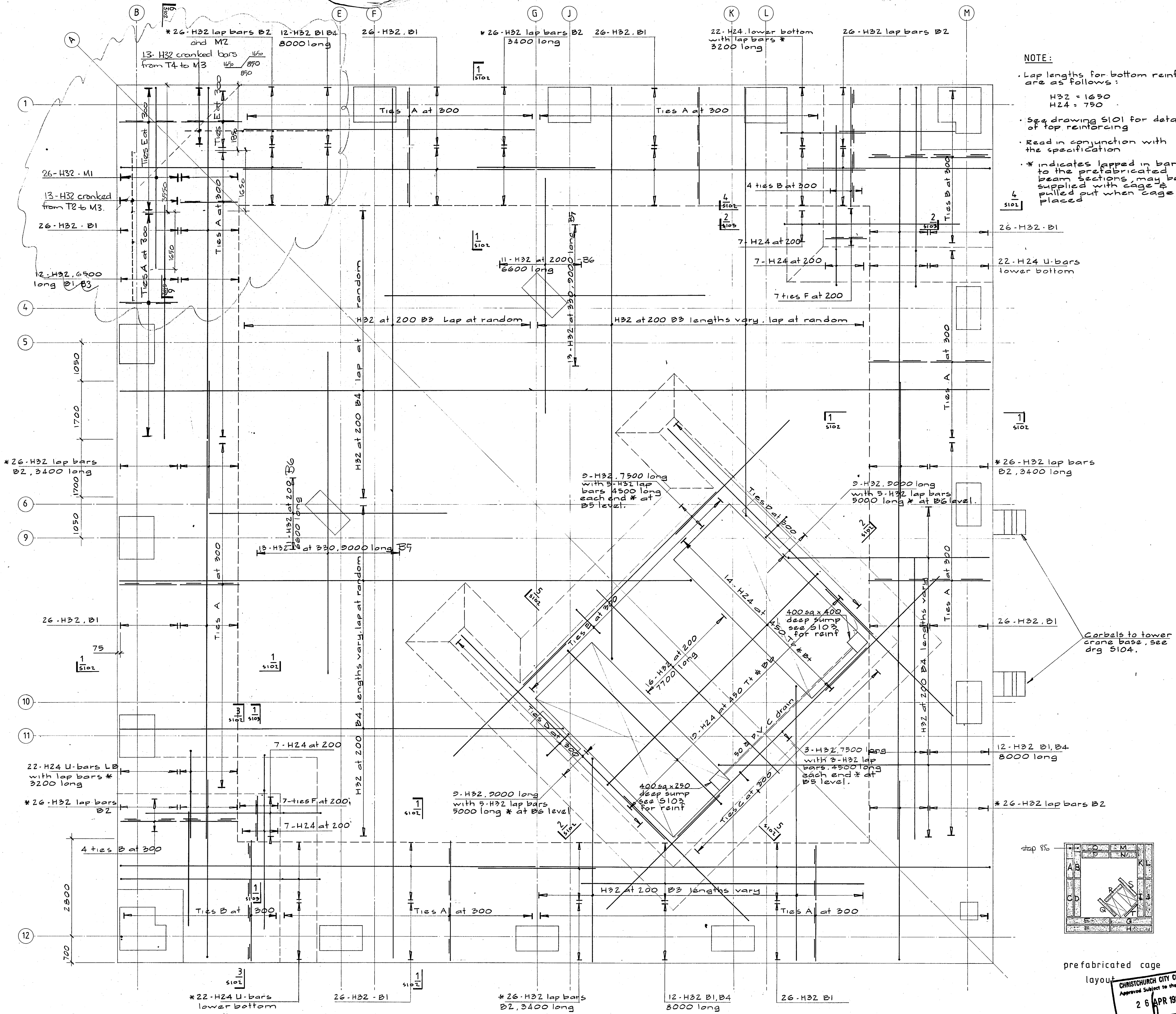
For package number

4	6	7	8	9	10	11	12	13	14	15	17	31	45
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Rev	Date	Amendments
1	5/2/88	ISSUE 1
2	17/2/88	ISSUE 2 Sumps & sections added
3	22/2/88	FOUNDATION PERMIT
4	4/3/88	PERMIT
A	29/3/88	CONSTRUCTION
B	14/4/88	8% sddown at 1/B.

**NOTE:**

- Lap lengths for bottom reinf are as follows:  
H32 = 1650  
H24 = 750
- See drawing S101 for details of top reinforcing
- Read in conjunction with the specification
- \* indicates lapped in bar to the prefabricated beam sections, may be supplied with cage & pulled out when cage placed



prefabricated cage layout

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Law  
26 APR 1988  
For Engineer

Warren & Mahoney Architects Ltd  
Christchurch, Wellington & Auckland

HOLMES CONSULTING GROUP  
STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

**ROBERT JONES HOUSE**  
**CHRISTCHURCH**

DRAWN: G.K.R. SCALE: 1:50  
APPROVED: *[Signature]*

SHEET TITLE:  
**RAFT SLAB REINFORCING PLAN**  
**- BOTTOM REINFORCING**

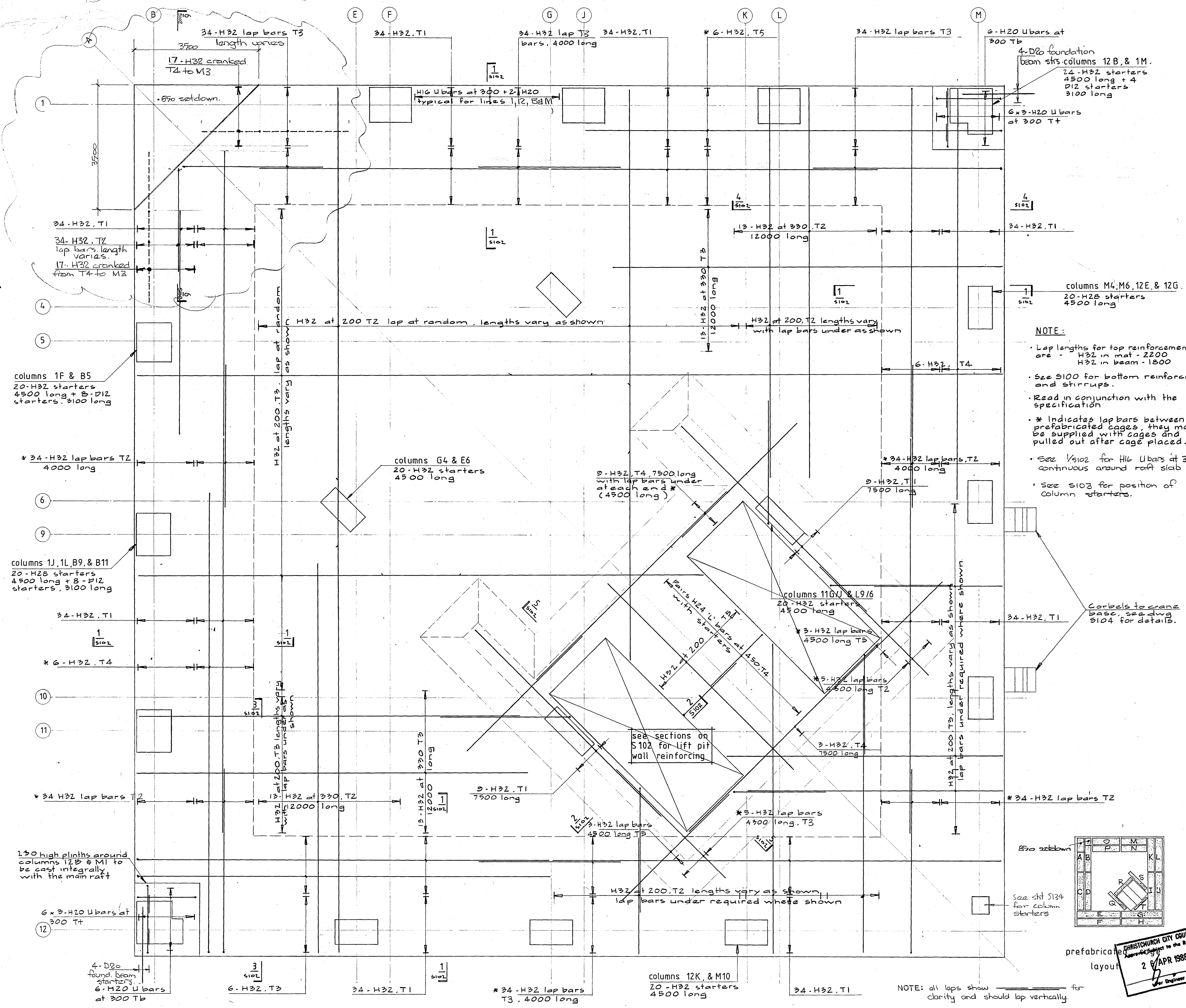
JOB NO: 2281 SHEET NO: S100 REV: B

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

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Rev	Date	Amendments
1	5/2/88	ISSUE 1
2	17/2/88	ISSUE 2 Starters to 12B & 1M
3	22/2/88	FOUNDATION PERMIT
4	4/3/88	PERMIT
A	29/3/88	CONSTRUCTION
B	14/4/88	850mm setback at 1/B.



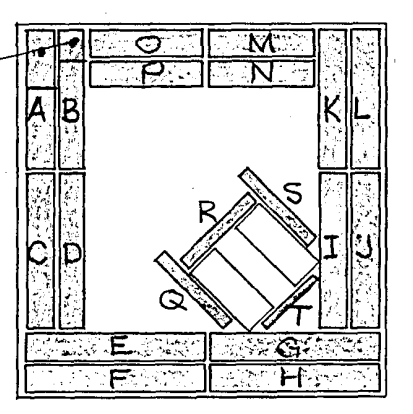
**NOTE:**

- Lap lengths for top reinforcement are - H32 in mat - 2200  
H32 in beam - 1800
- See S100 for bottom reinforcing and stirrups.
- Read in conjunction with the specification
- \* Indicates lap bars between prefabricated cages, they may be supplied with cages and pulled out after cage placed.
- See S102 for H16 Ubars at 300 continuous around raft slab
- See S103 for position of column starters.

columns 1F & B5  
20-H32 starters  
4500 long + 8-D12 starters, 3100 long

columns 1J, 1L, B9, & B11  
20-H28 starters  
4500 long + 8-D12 starters, 3100 long

1.50 high plinths around columns 12B & M1 to be cast integrally with the main raft



prefabricated cages layout

Warren & Mahoney Architects Ltd  
Christchurch, New Zealand

**HOLMES CONSULTING GROUP**  
STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

**ROBERT JONES HOUSE**  
**CHRISTCHURCH**

DRAWN: G.K.R. SCALE: 1:50  
APPROVED: [Signature]

SHEET TITLE  
**RAFT SLAB REINFORCING PLAN**  
- TOP REINFORCING

CHRISTCHURCH CITY COUNCIL  
Approved by the By-Laws  
26 APR 1988  
[Signature]  
[Title]

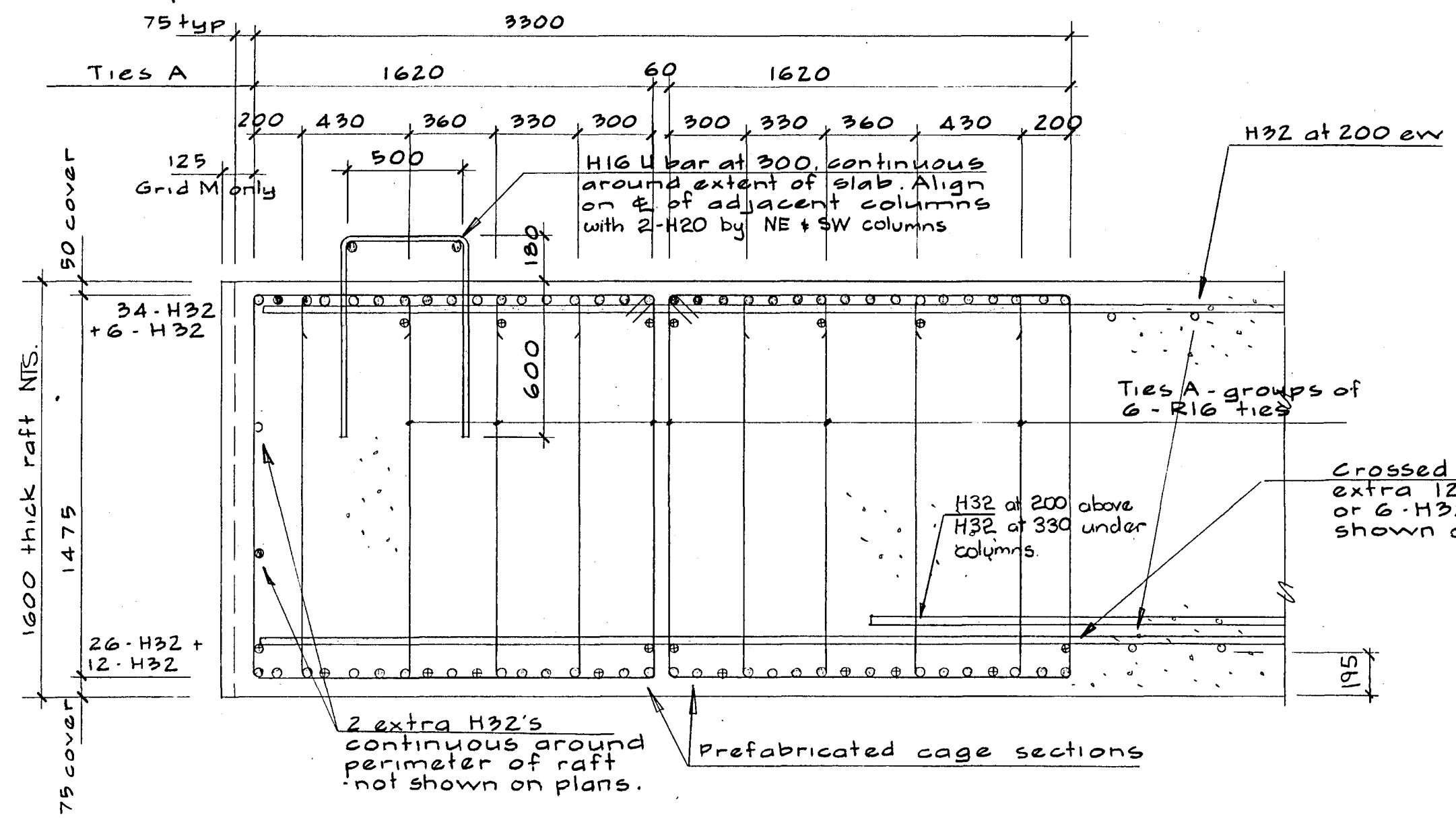
JOB NO: 2281 SHEET NO: S107 REV: B

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

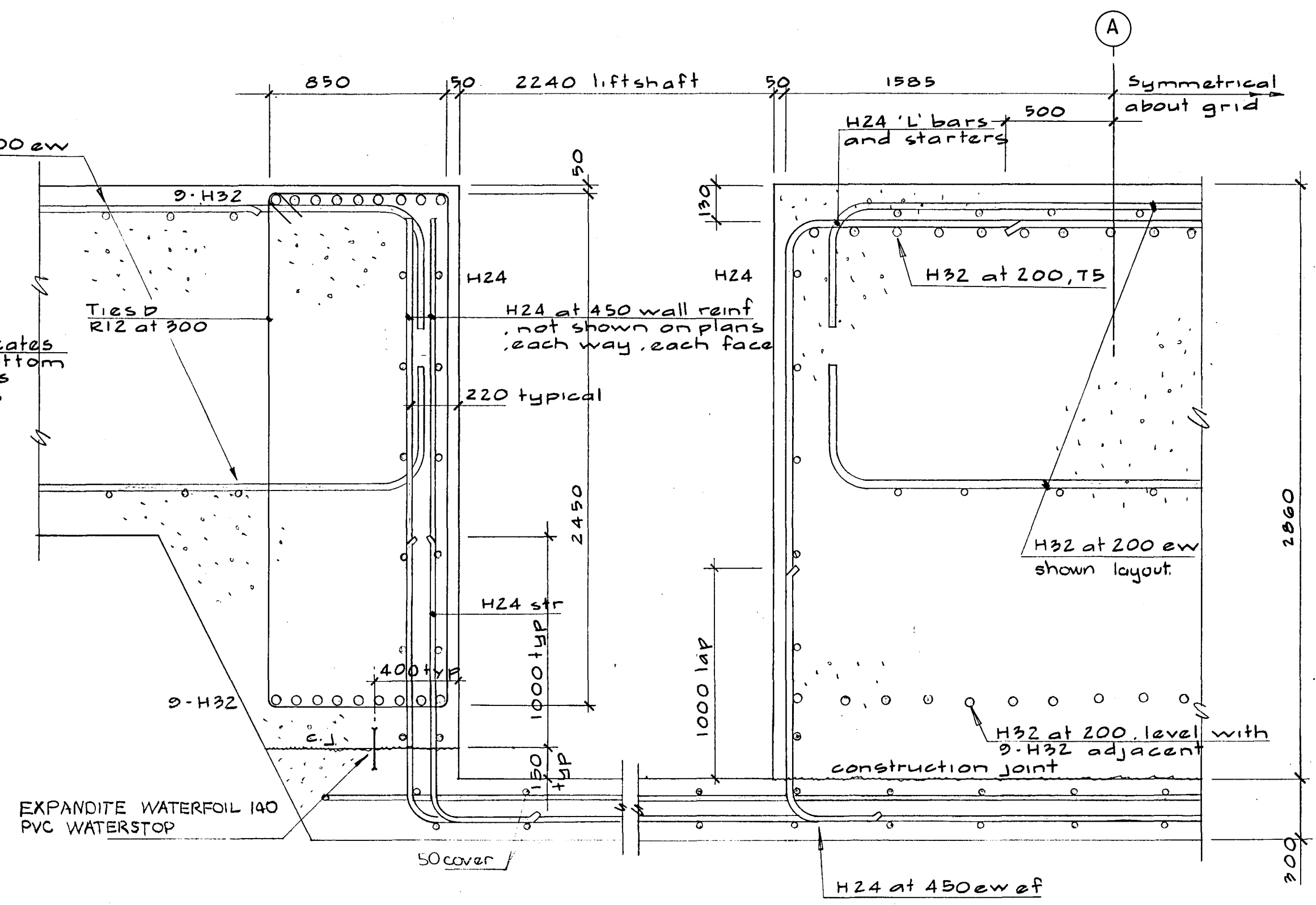
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Rev	Date	Amendments
1	5/2/88	ISSUE 1
2	22/2/88	FOUNDATION PERMIT
3	4/3/88	PERMIT
A	29/3/88	CONSTRUCTION
B	15/4/88	SECTION 6 ADDED

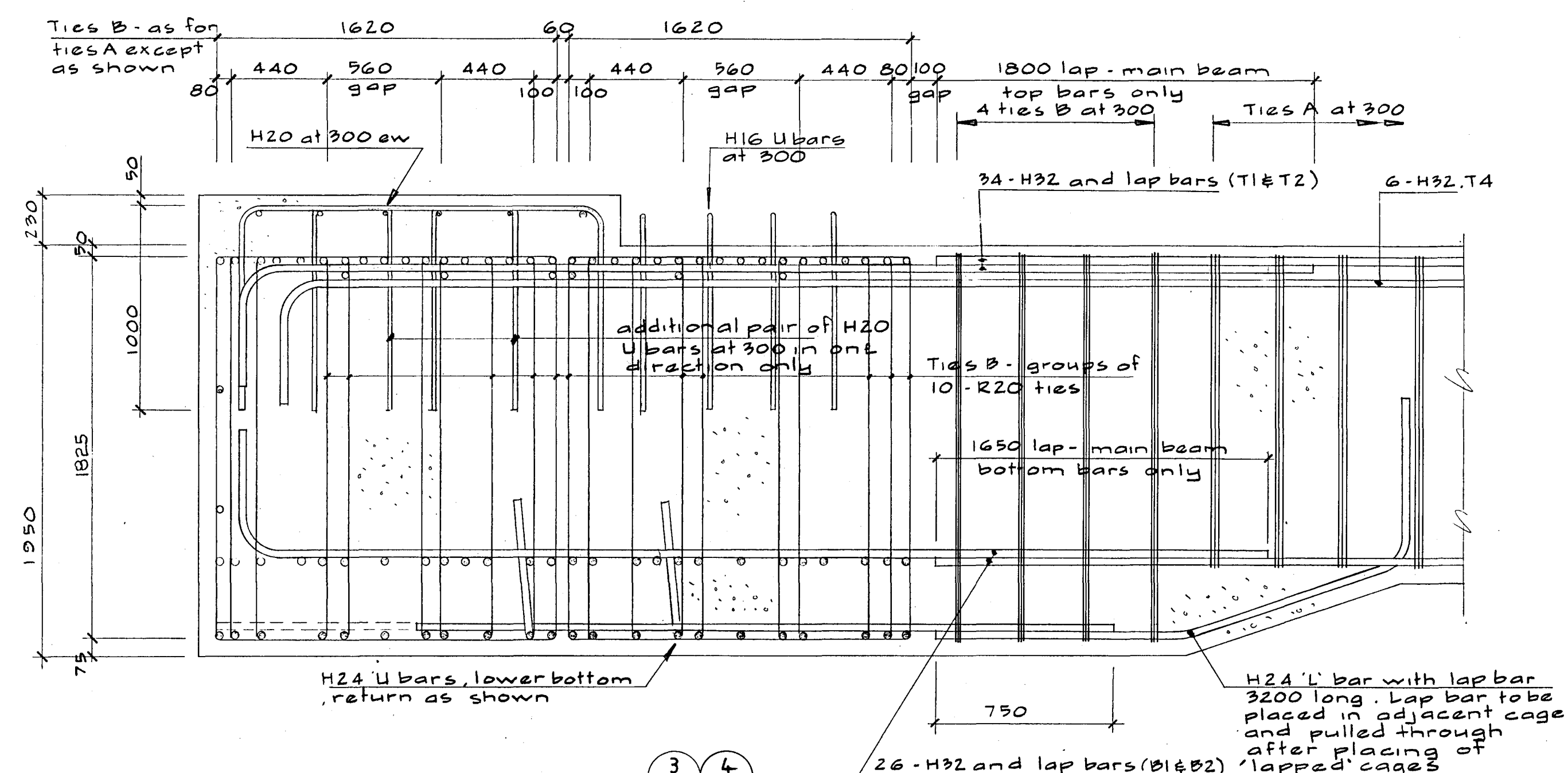


Crossed bar indicates extra 12-H32 bottom or 6-H32 top, as shown on plans

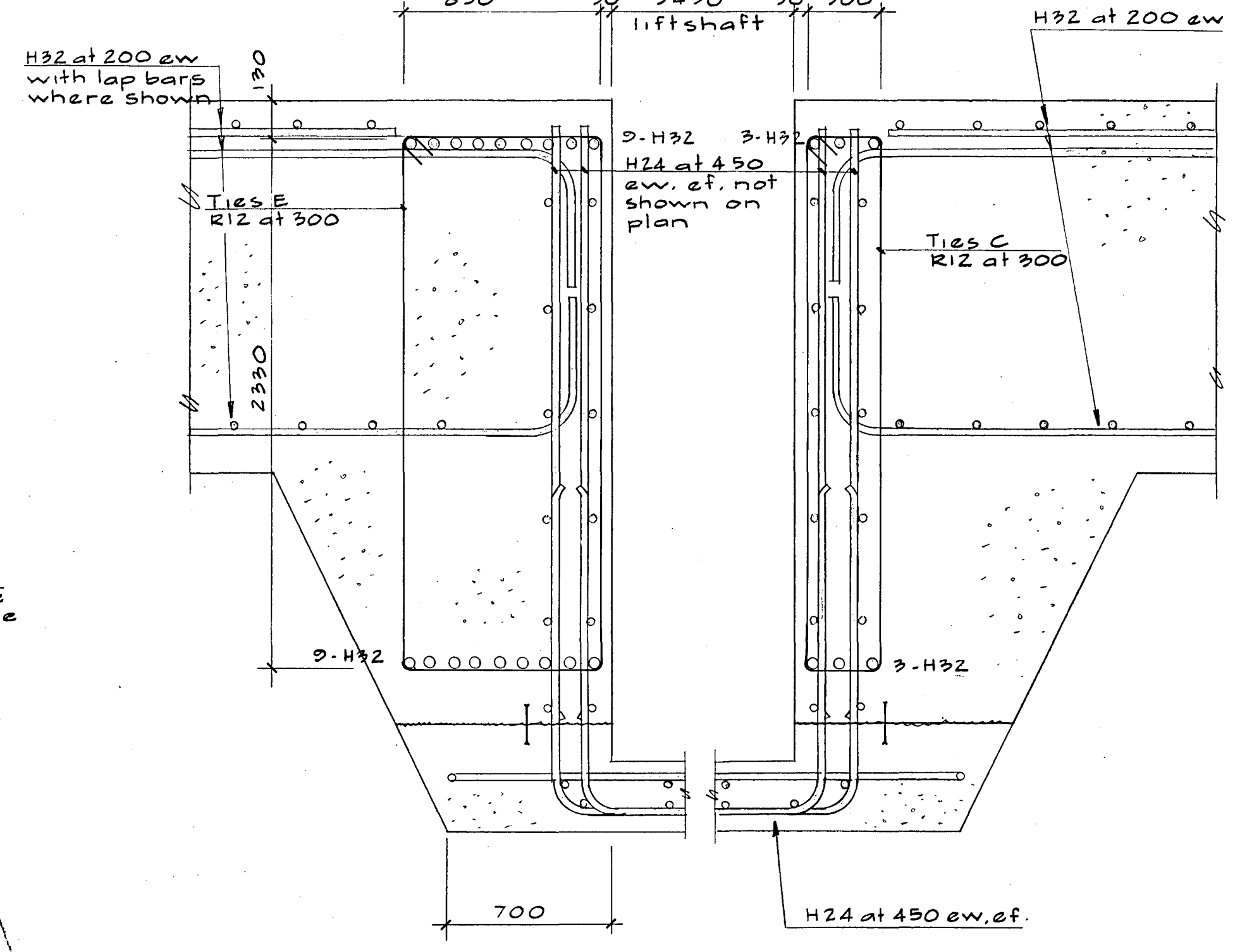
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S100, S101



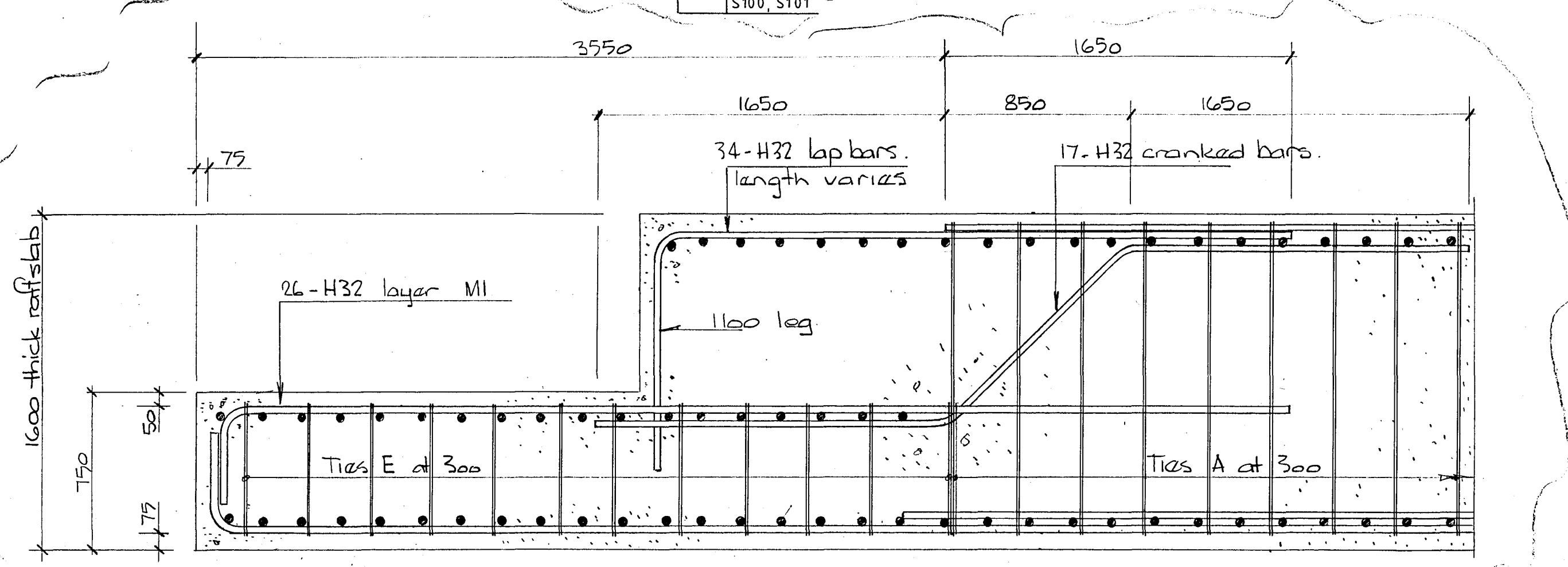
2  
S100, S101



3 4 similar (bar layers vary) S100, S101



5  
S100, S101



6  
S100, S101

Warren & Mahoney Architects Ltd  
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STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

ROBERT JONES HOUSE  
CHRISTCHURCH

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
Engineer

DRAWN: G.K.R. SCALE: 1:20  
APPROVED: [Signature]

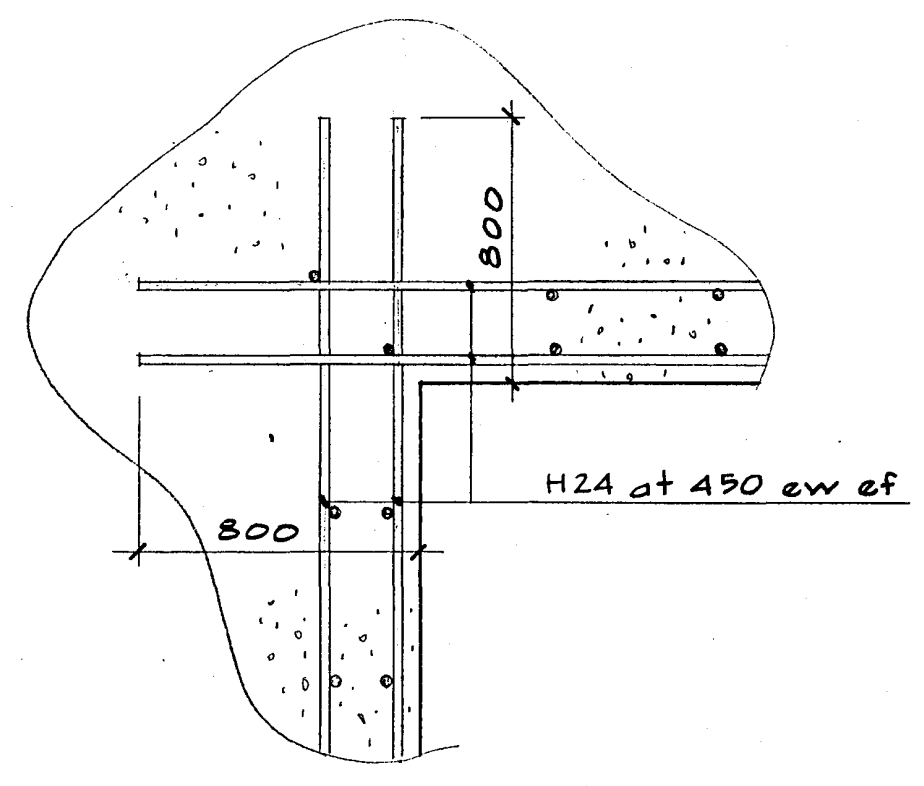
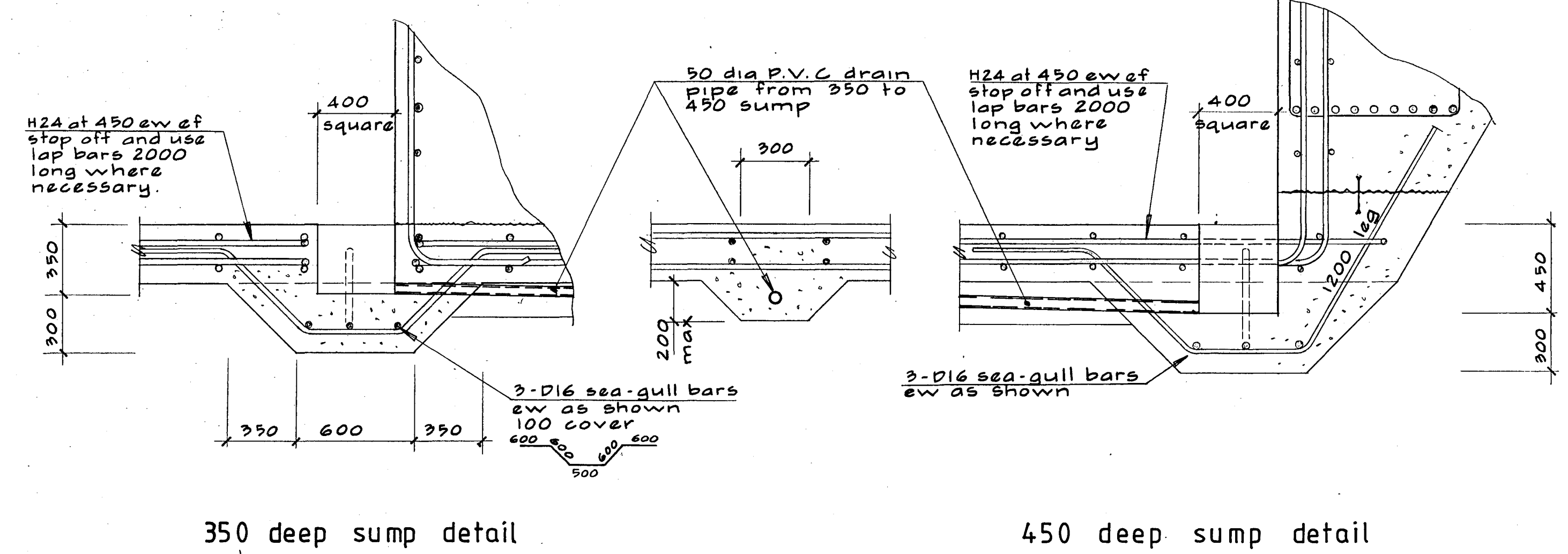
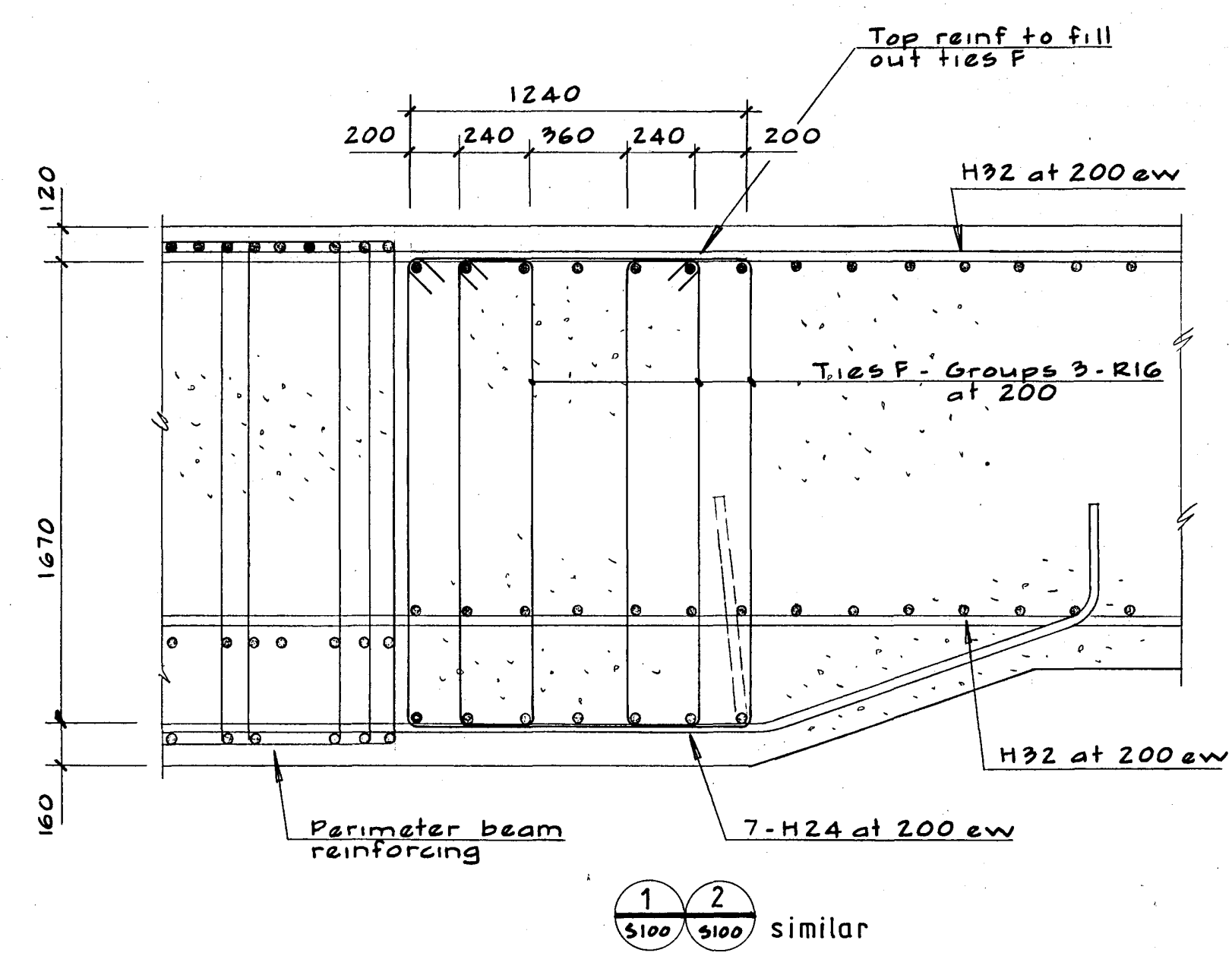
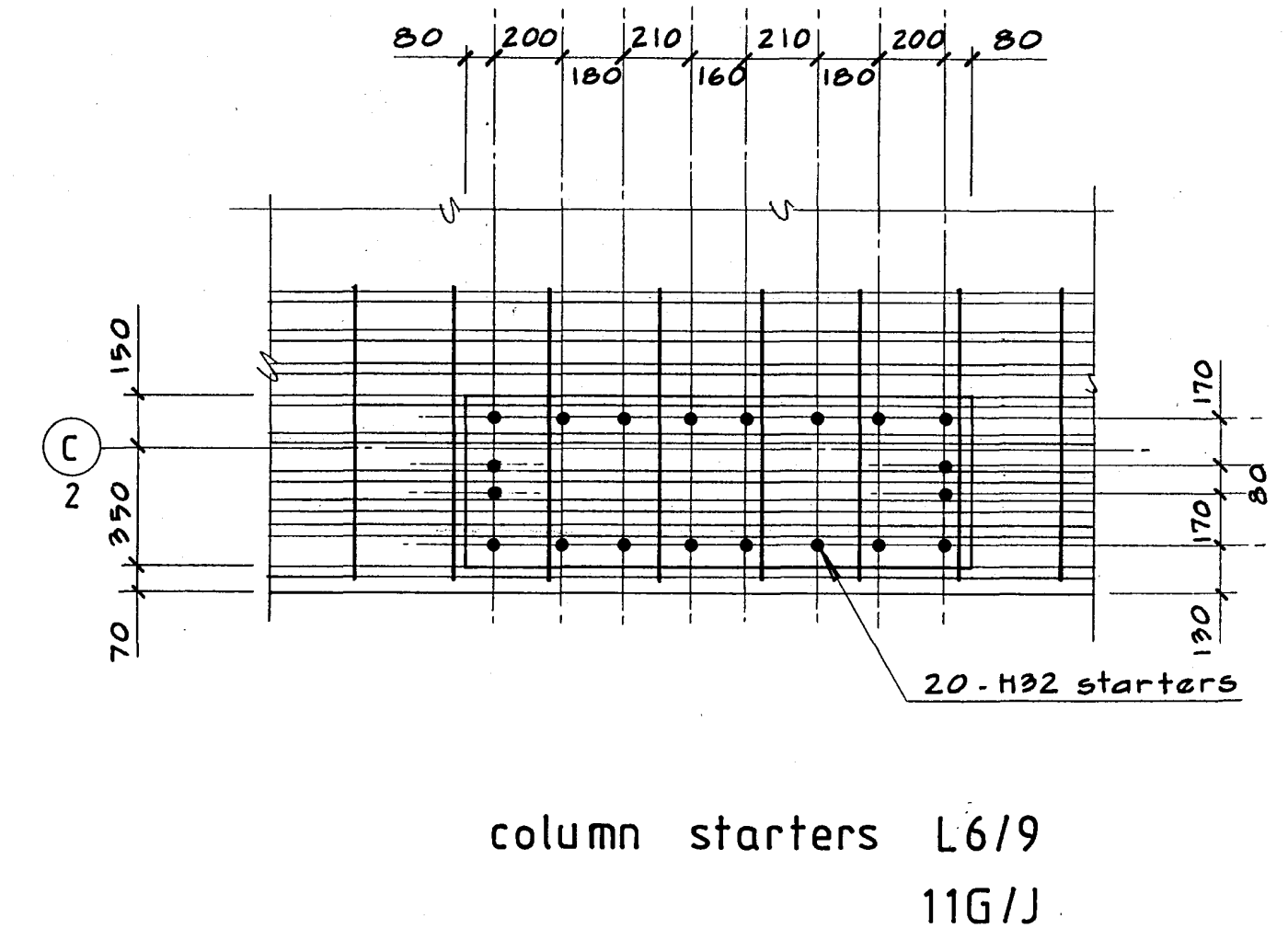
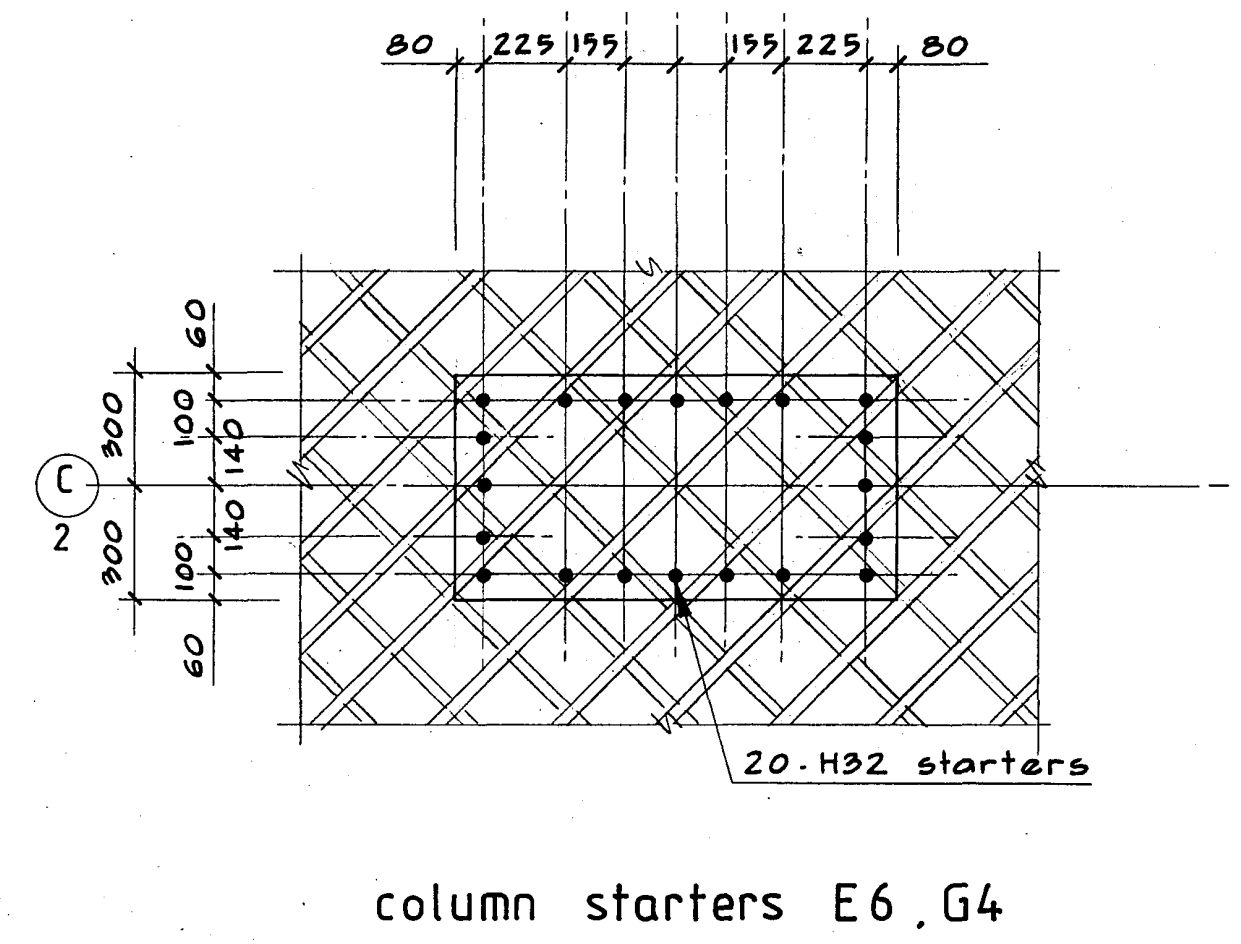
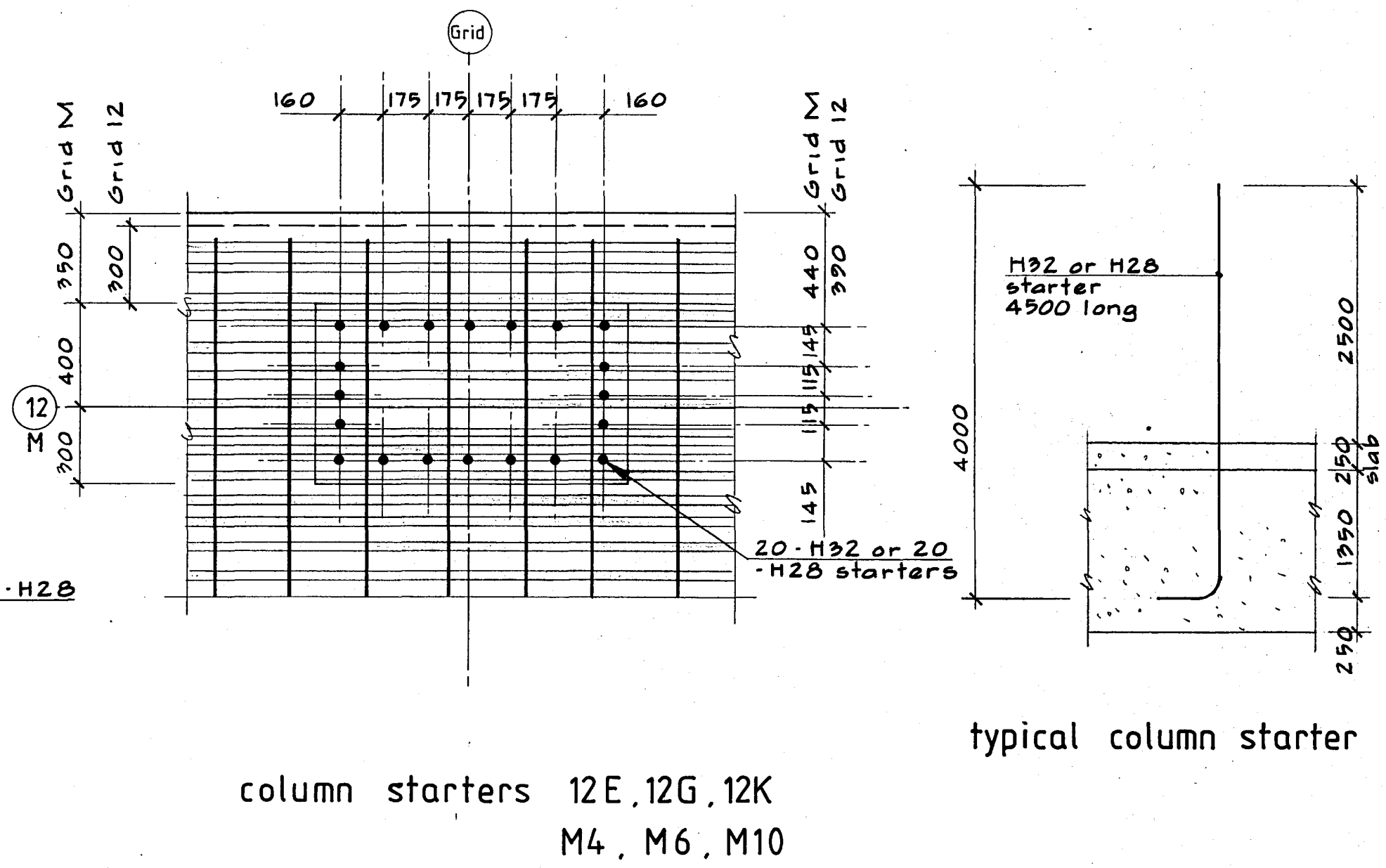
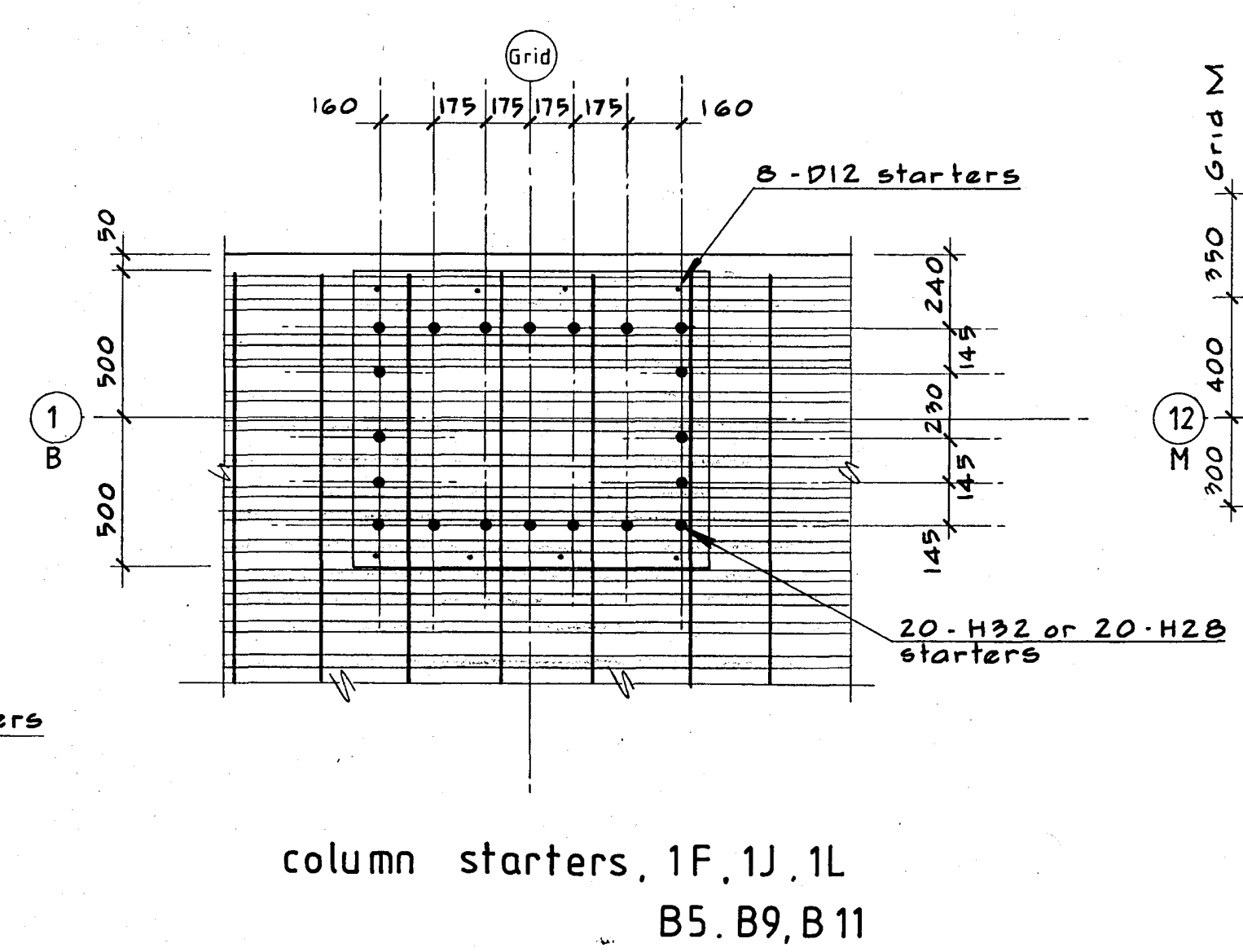
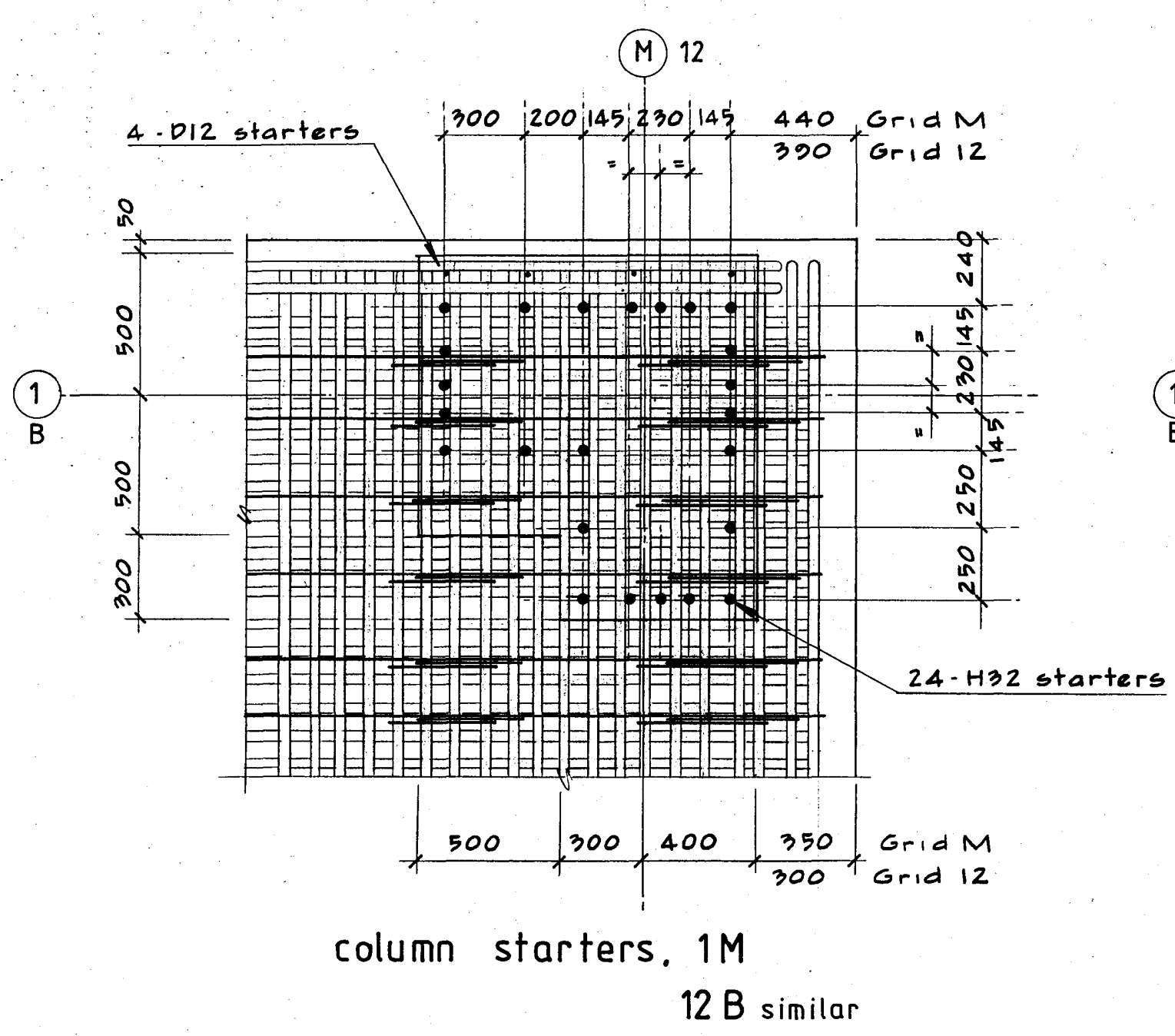
SHEET TITLE:  
RAFT SLAB AND LIFT PIT  
REINFORCING DETAILS

JOB NO: 2281 SHEET NO: S102 REV: B

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number															
4	6	7	8	9	10	11	12	13	14	15	17	31	45		

Rev	Date	Amendments
1	17/2/88	ISSUE 1
2	22/2/88	FOUNDATION PERMIT
3	4/3/88	PERMIT



Note: read in conjunction with drawings S100 to S102

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DRAWN: G.K.R. SCALE: 1:20  
APPROVED: [Signature]

SHEET TITLE:  
RAFT SLAB AND LIFT PIT  
REINFORCING DETAILS

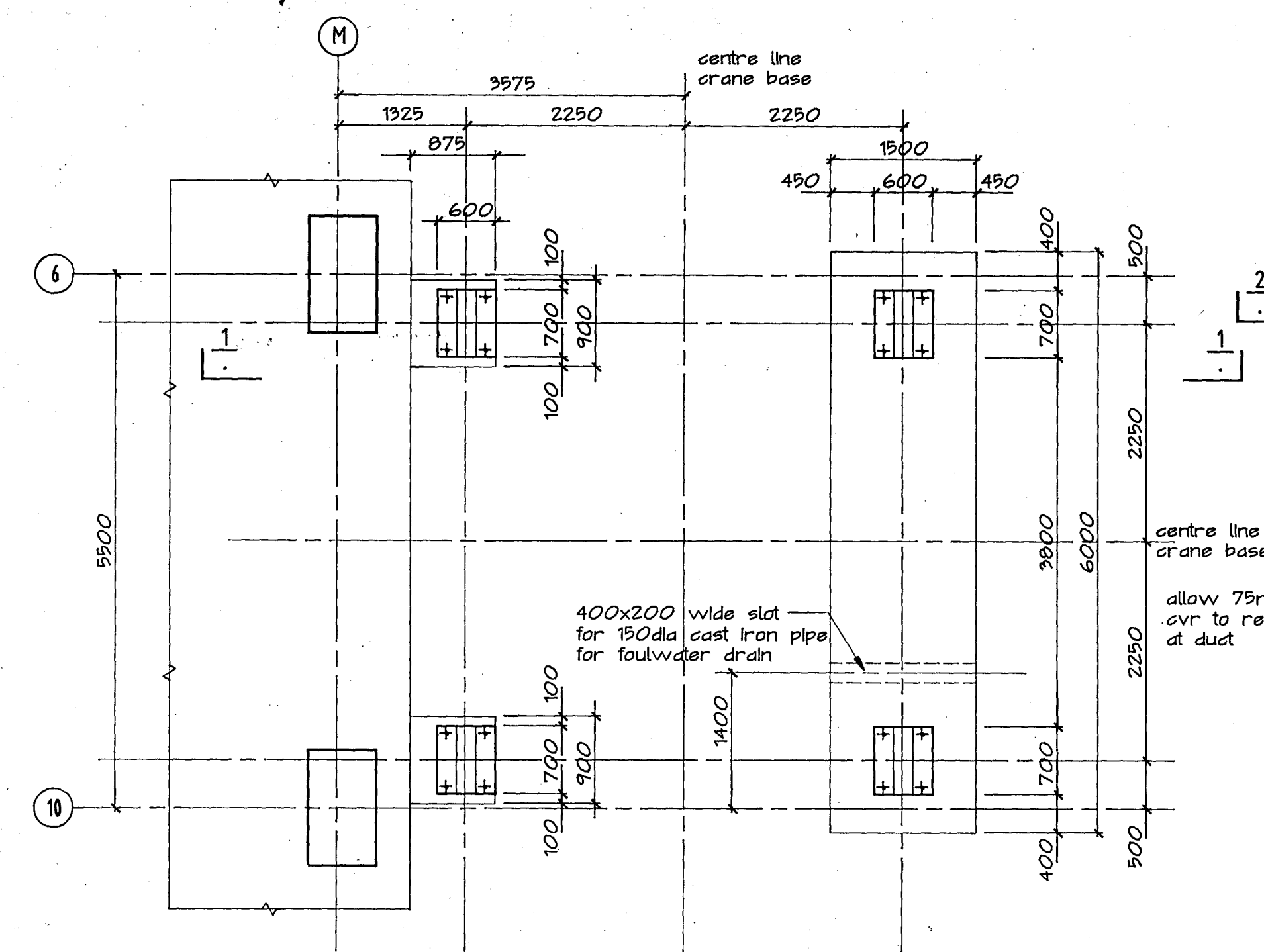
JOB NO: 2281 SHEET NO: S103 REV: 3

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Law  
26 APR 1988  
[Signature]  
For Engineer

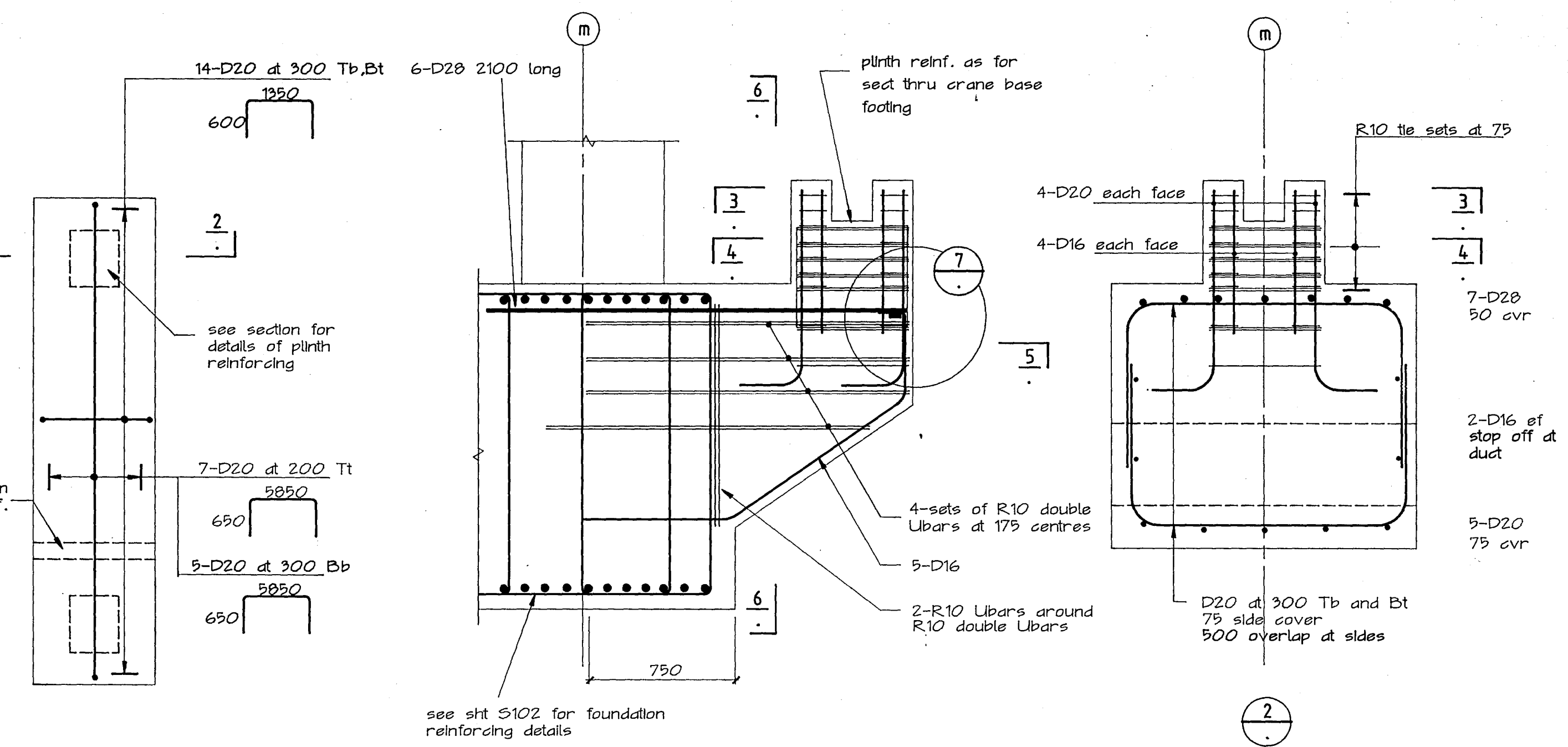
ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number															
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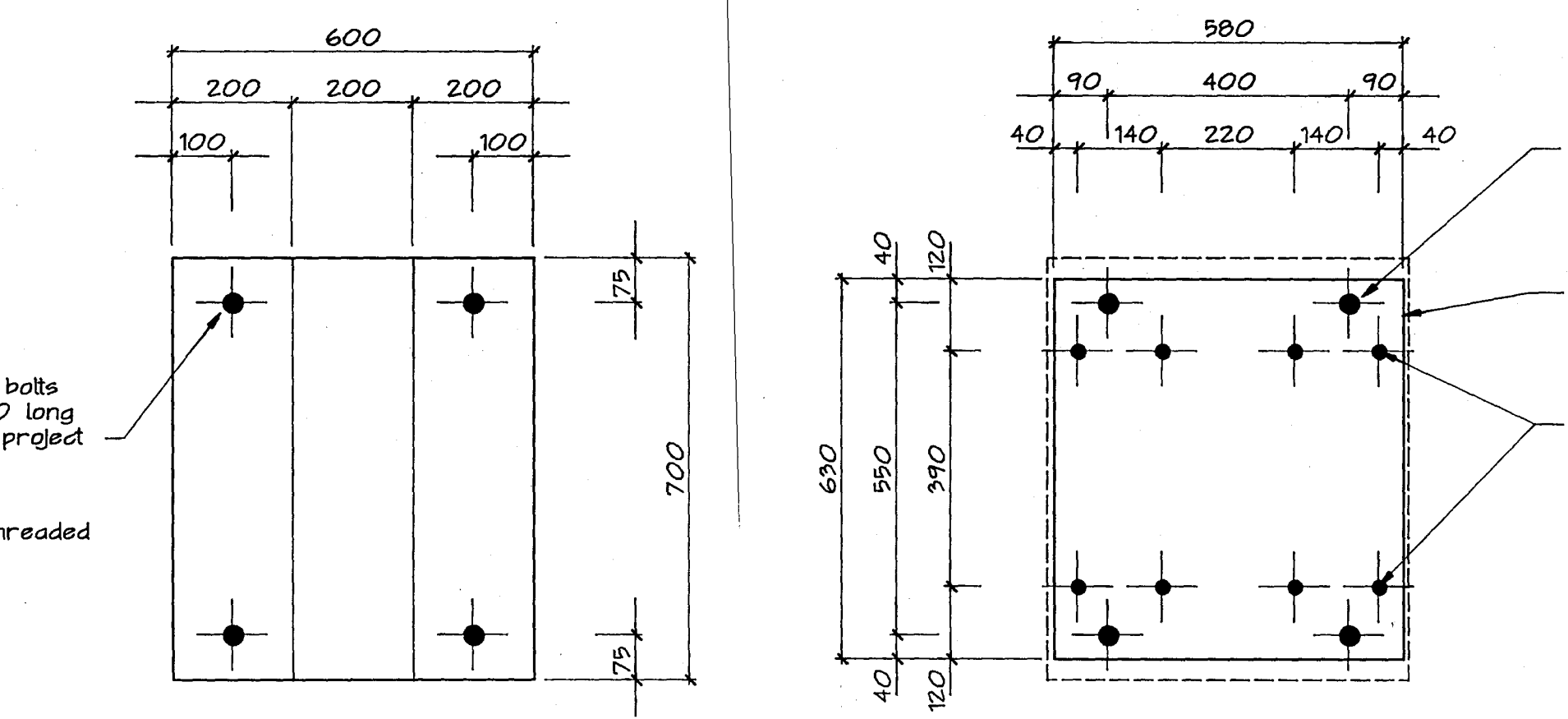
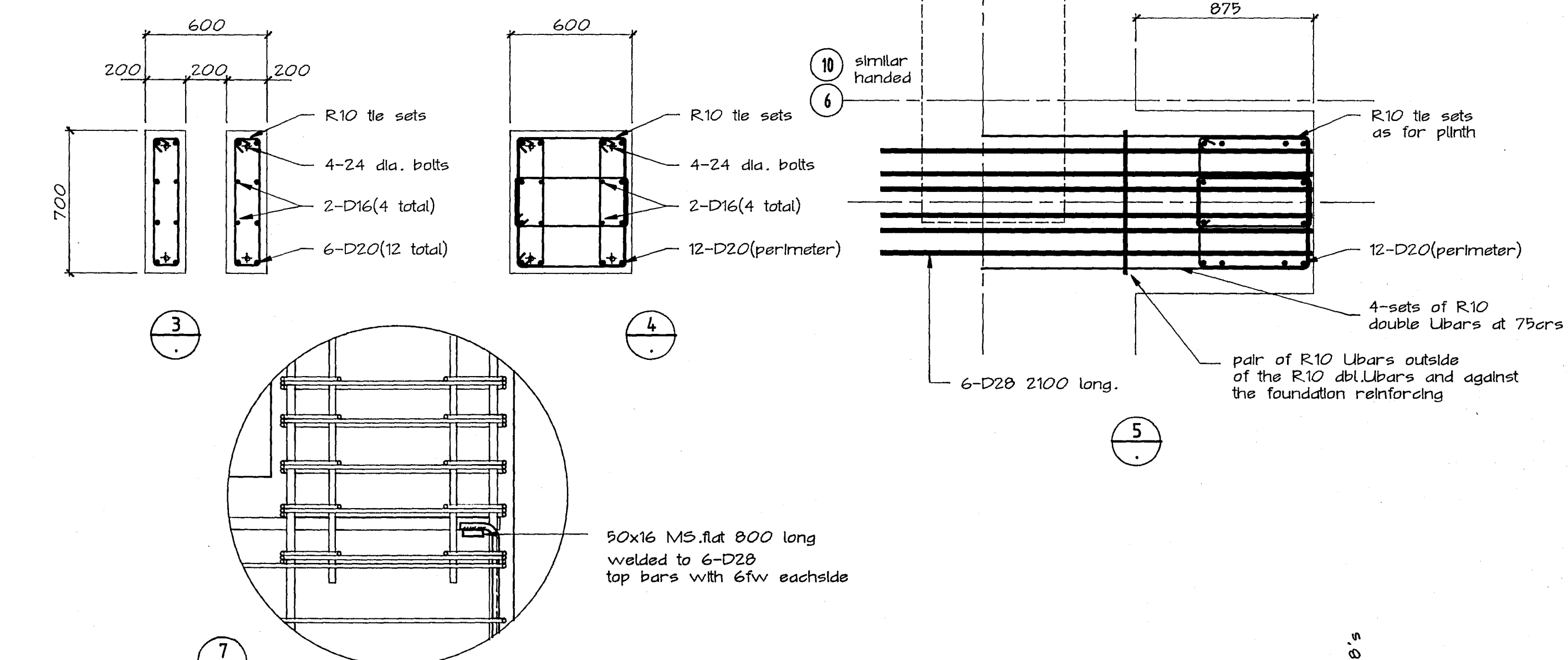
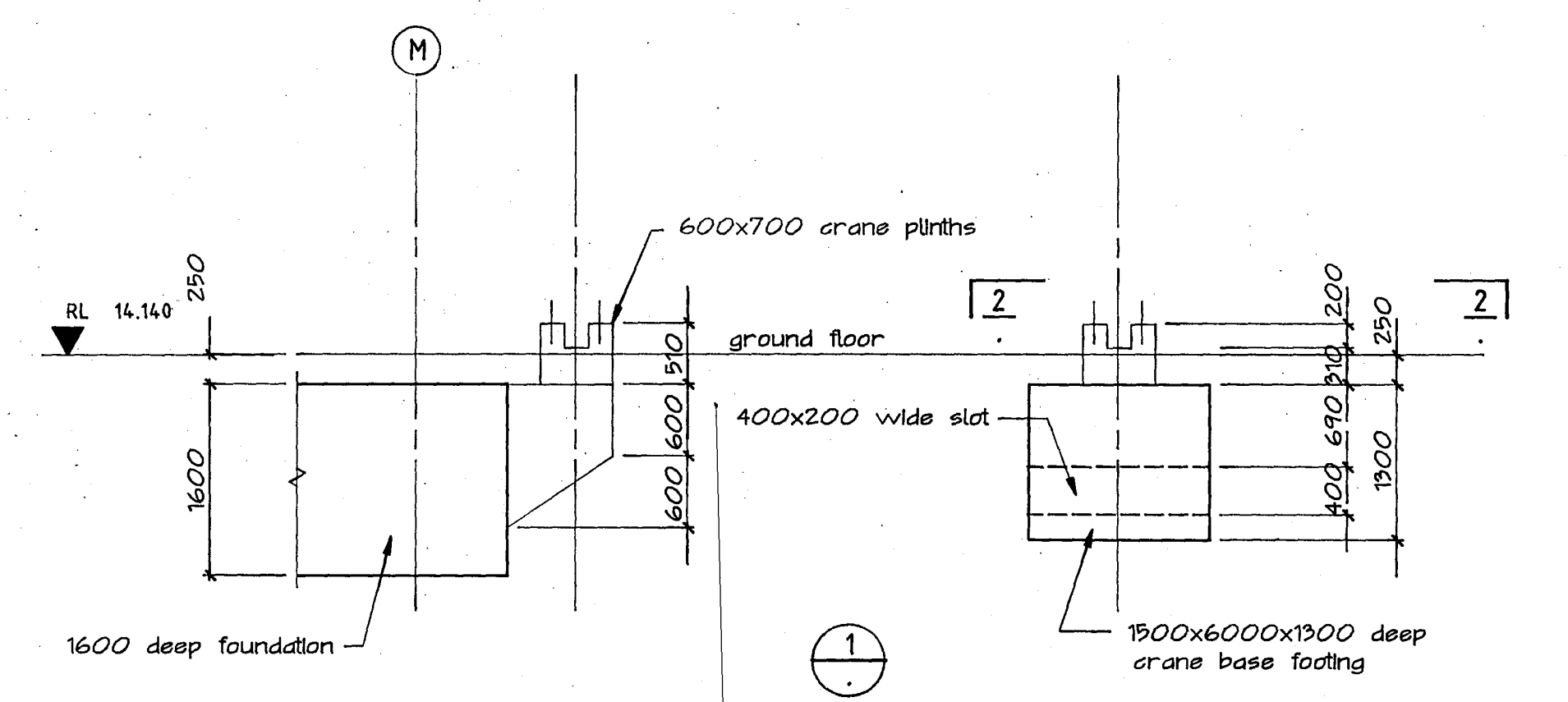
Rev.	Date	Amendment
1	9/2/88	first issue
2	22/2/88	foundation permit
3	25/2/88	crane base footing depth increased 300 for 400x200 duct
4	4/3/88	PERMIT



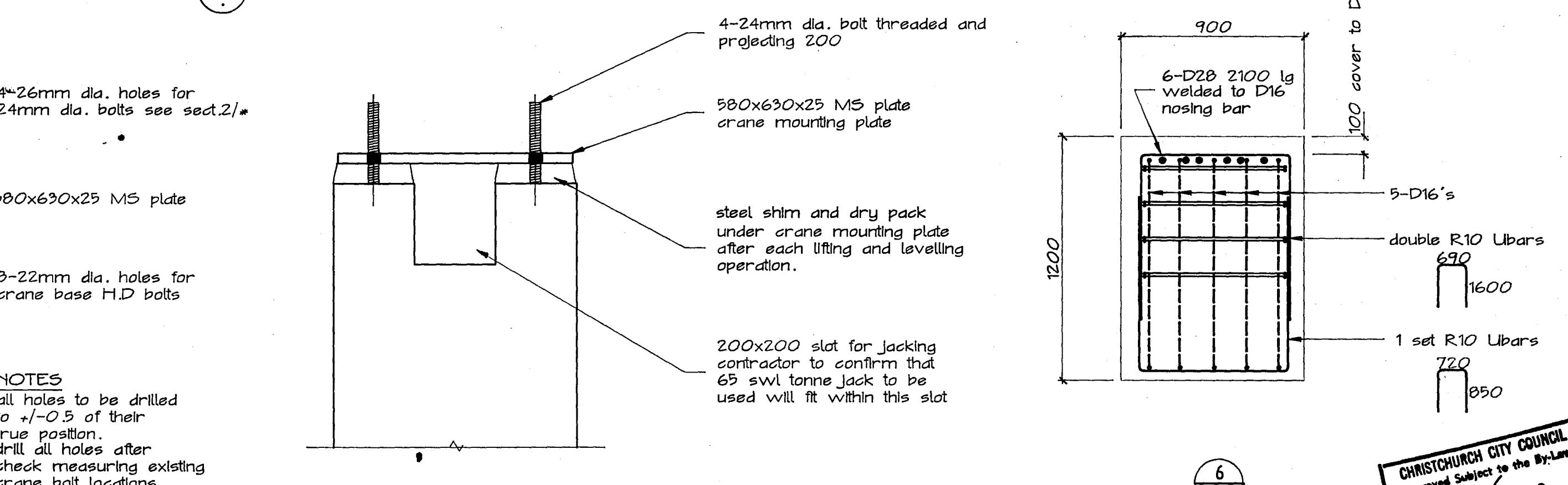
crane base setout plan



plan of crane base footing reinforcing



crane mounting plate



crane mounting plate levelling detail

**NOTES**  
 all holes to be drilled to +/-0.5 of their true position.  
 drill all holes after check measuring existing crane bolt locations.

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DRAWN: g.a.e SCALE: 1:10, 1:20, 1:50  
APPROVED: R.A.P.

SHEET TITLE:  
CRANE BASE  
PLAN AND DETAILS  
CARCASS AND REINFORCING

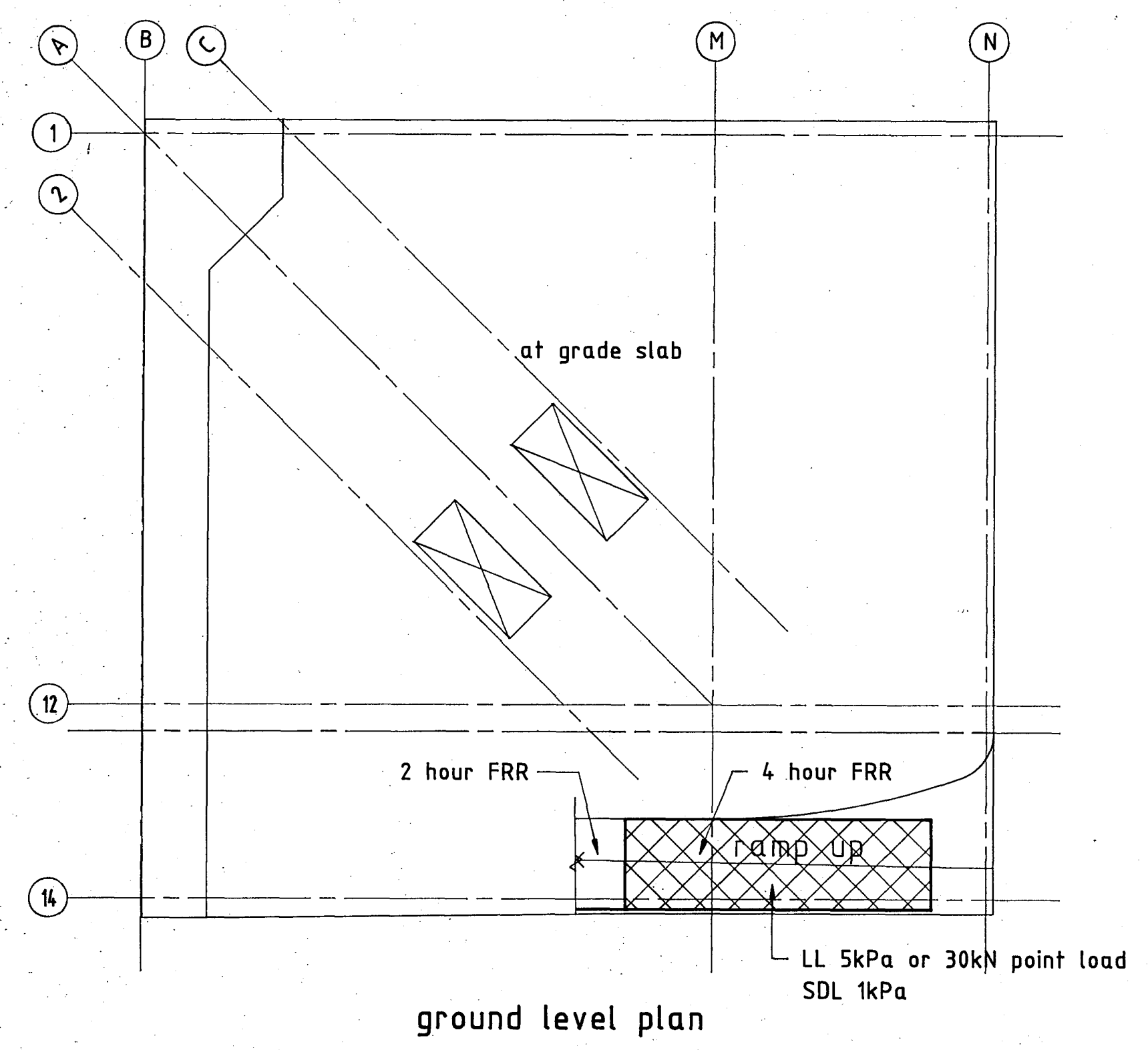
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26 APR 1988  
For Engineer

JOB NO: 2281 SHEET NO: S104 REV: 4

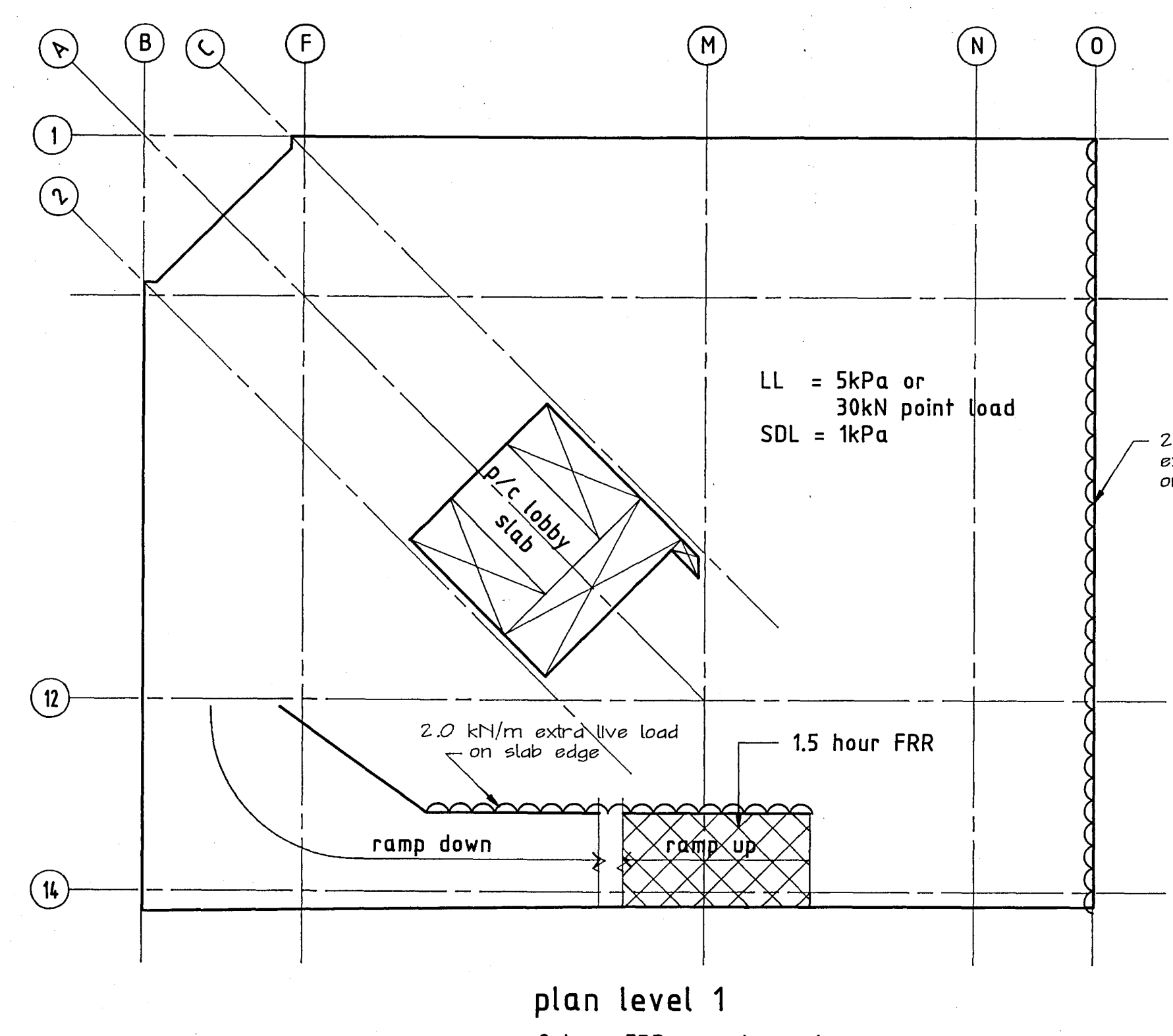
ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number															
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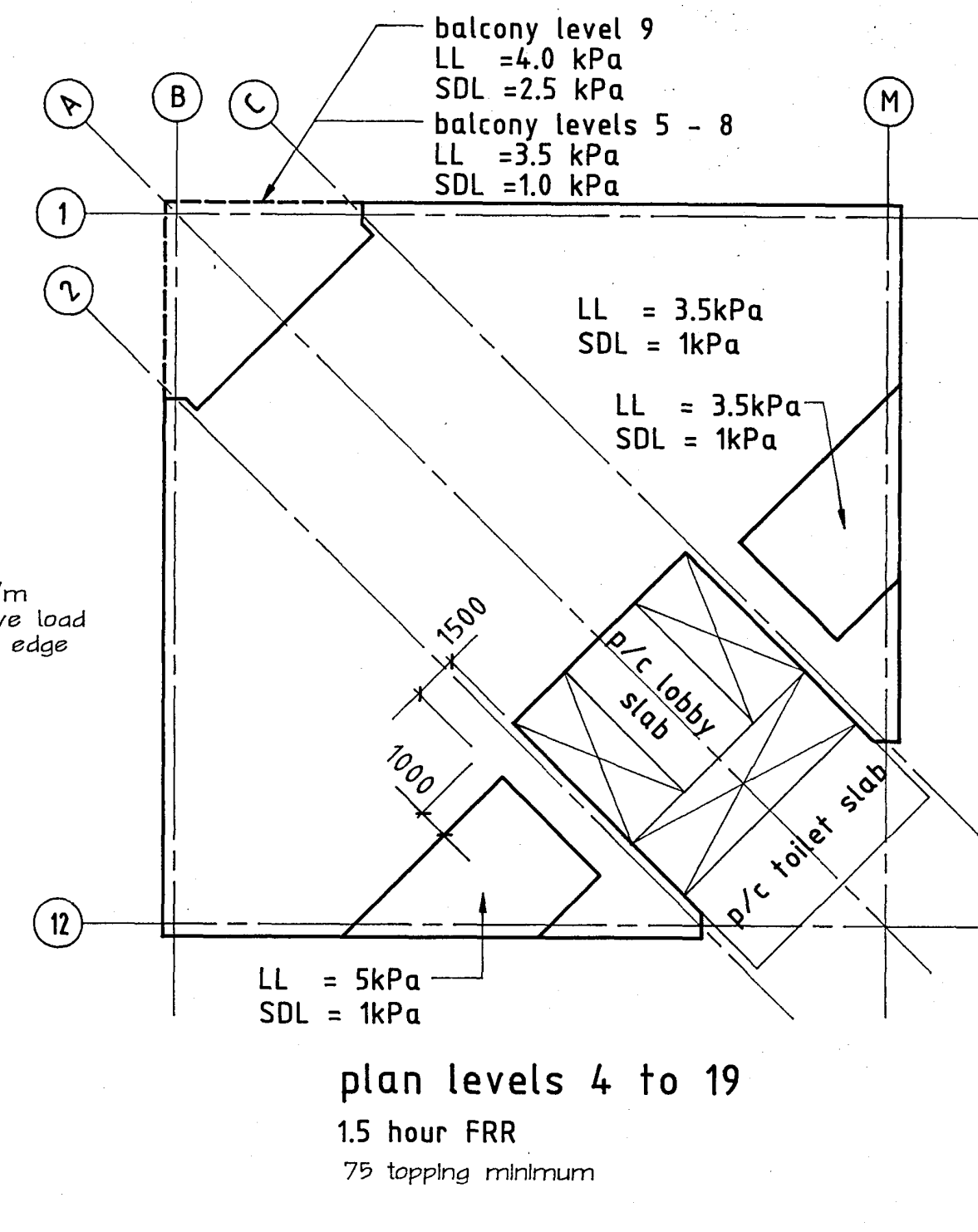
Rev.	Date	Amendment
1	4/3/00	permit



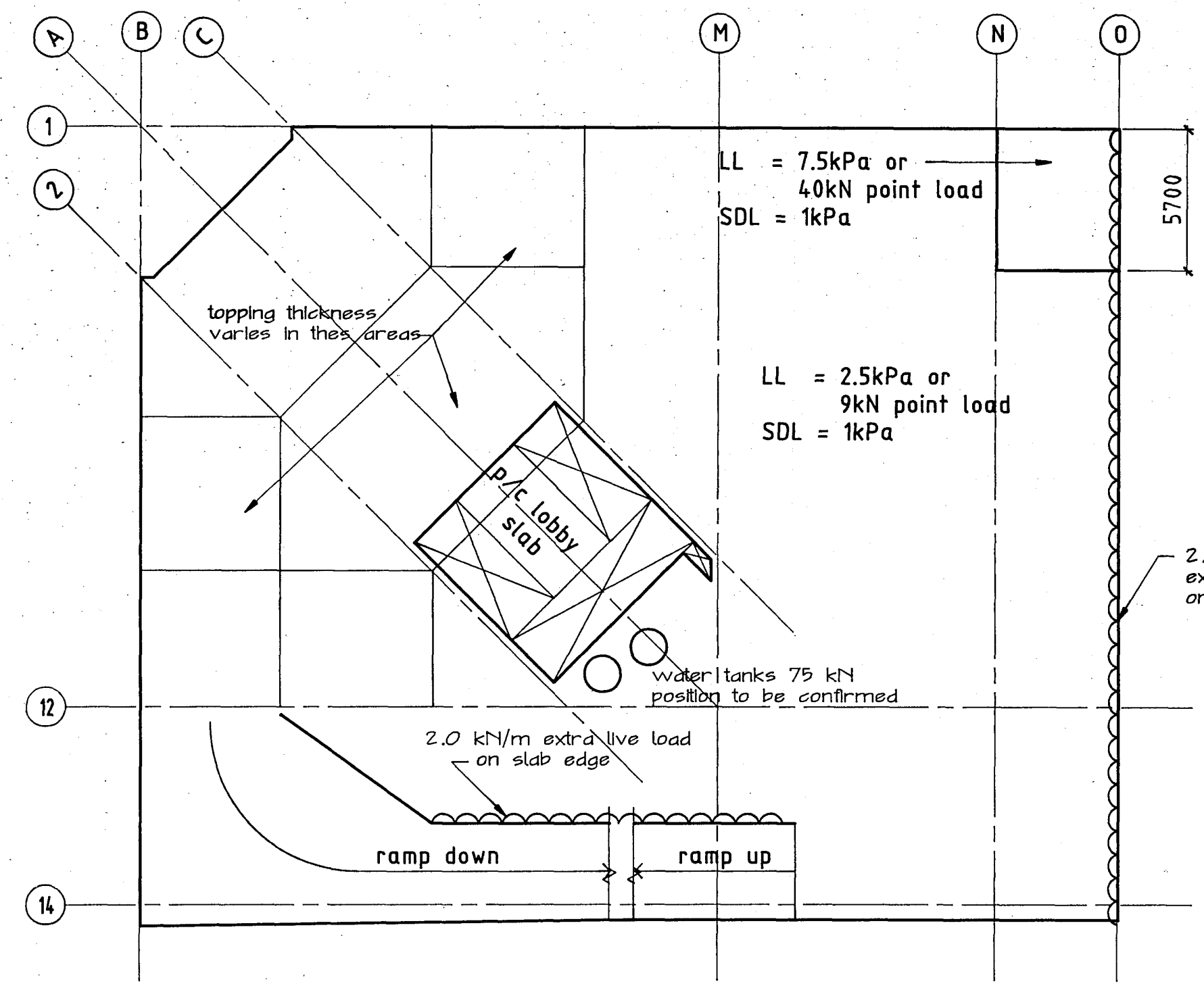
ground level plan



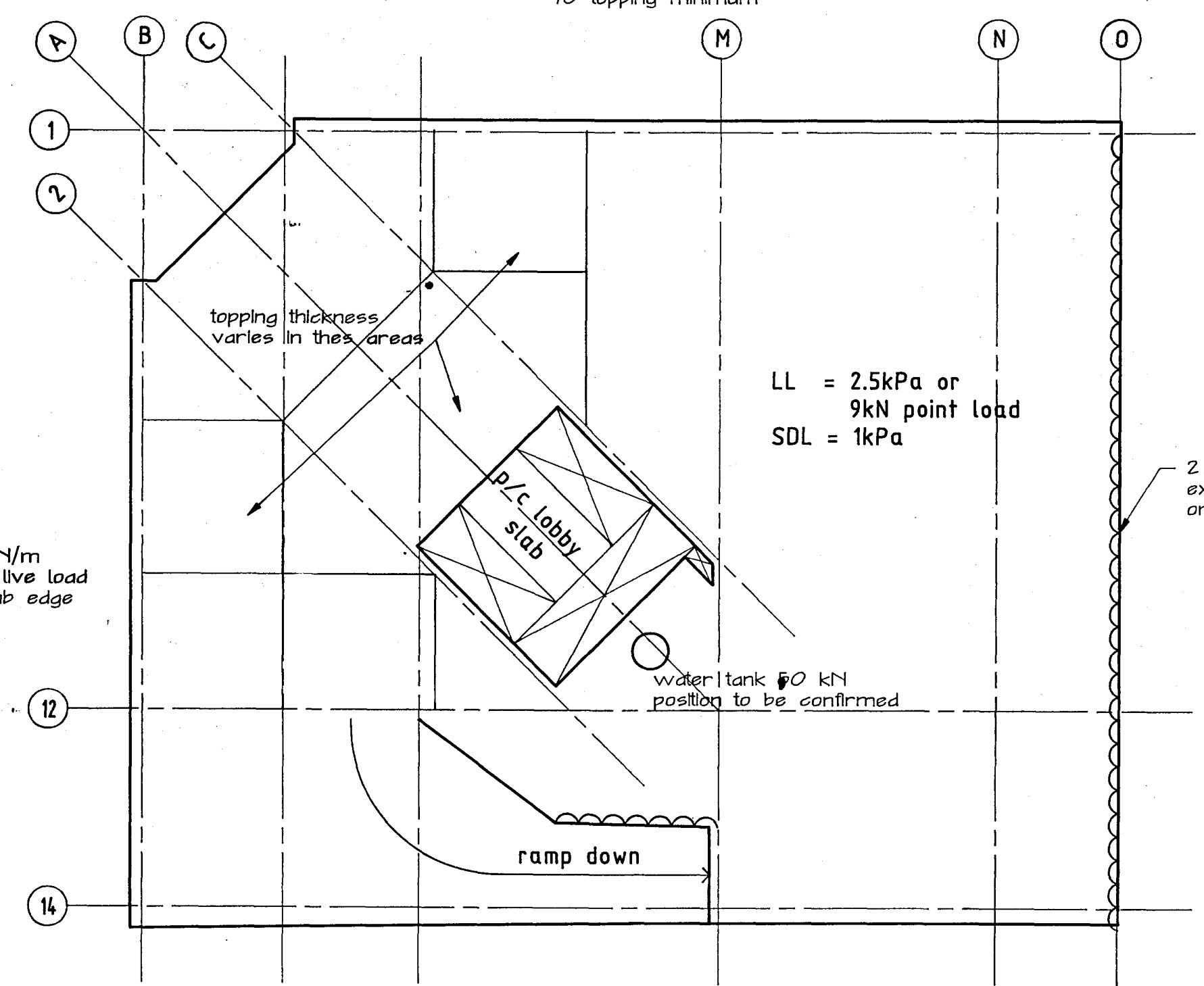
plan level 1  
2 hour FRR except as shown  
90 topping minimum



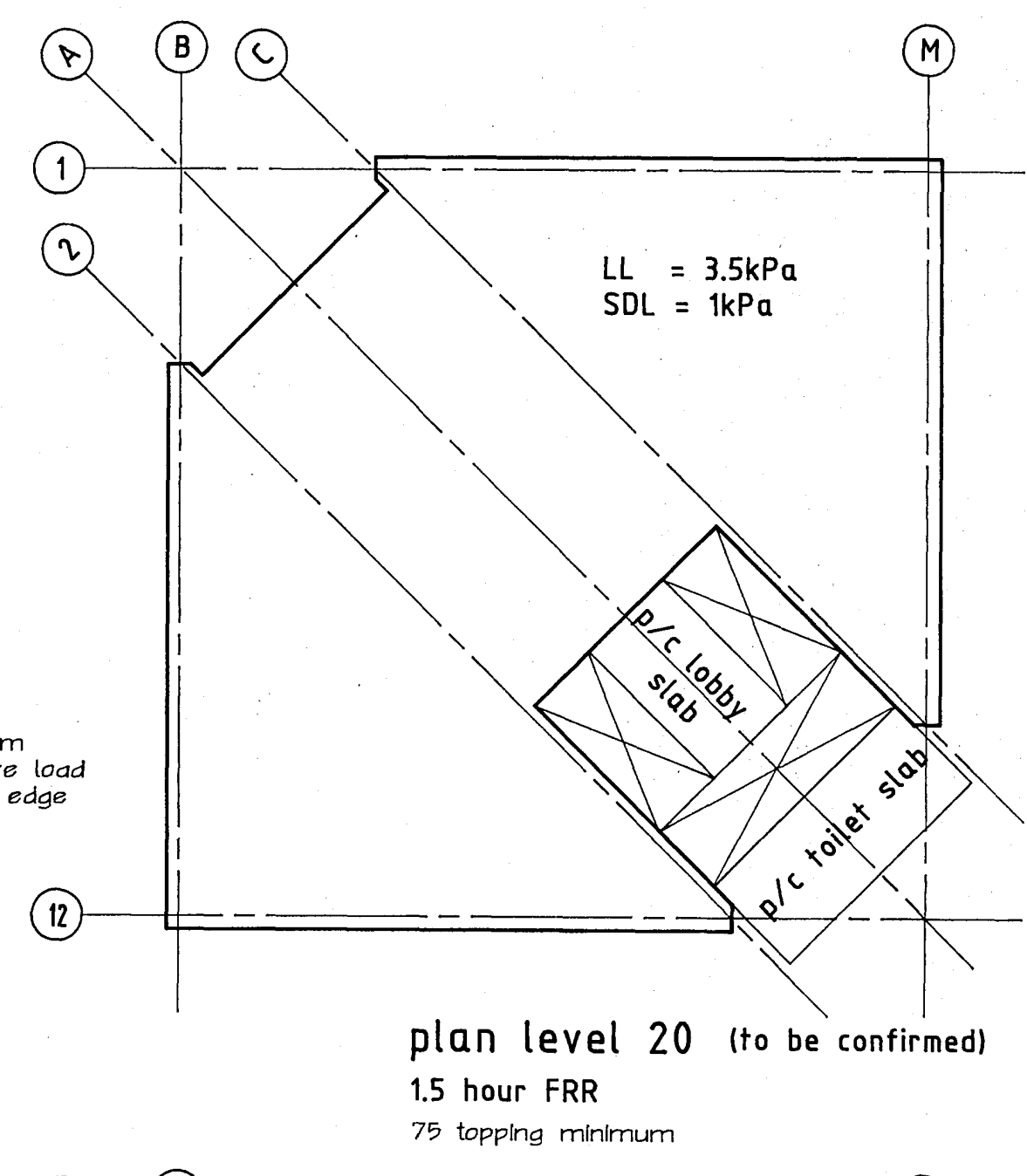
plan levels 4 to 19  
1.5 hour FRR  
75 topping minimum



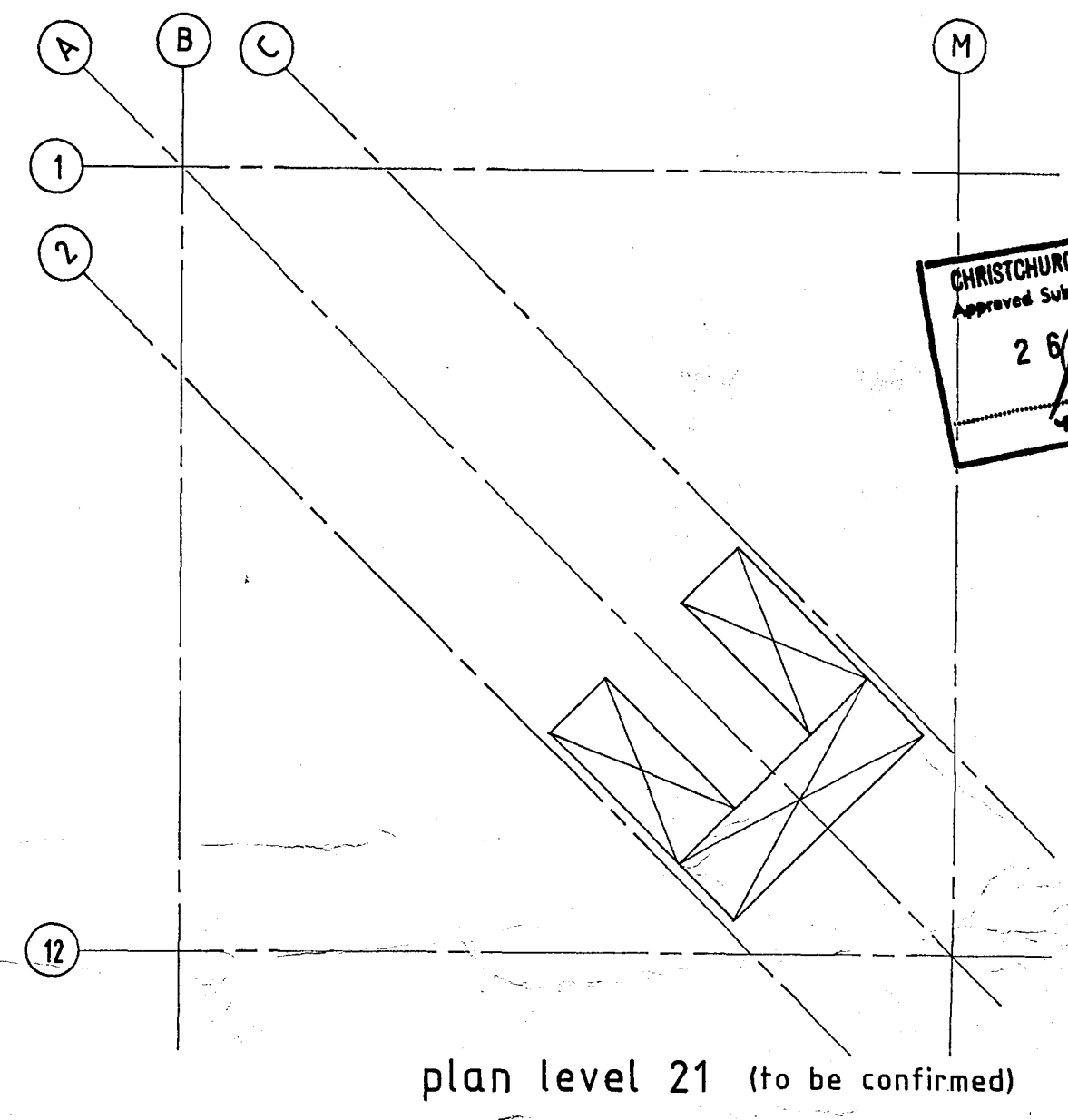
plan level 2  
1.5 hour FRR  
75 topping minimum



plan level 3  
1.5 hour FRR  
75 topping minimum



plan level 20 (to be confirmed)  
1.5 hour FRR  
75 topping minimum



plan level 21 (to be confirmed)

NOTE: Carpark levels 1,2&3 have raised kerbs. Floor designer must check the architectural and structural floor plans to establish the extent of this kerbing and make the necessary load allowance in the floor design.

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26 APR 1988  
Per Engineer

LANDMARK TOWER  
CHRISTCHURCH

DRAWN: H.A.U. SCALE: 1:200  
APPROVED: R.A.P.

SHEET TITLE:  
FLOOR DESIGN LOADS  
LEVELS 0 TO 20

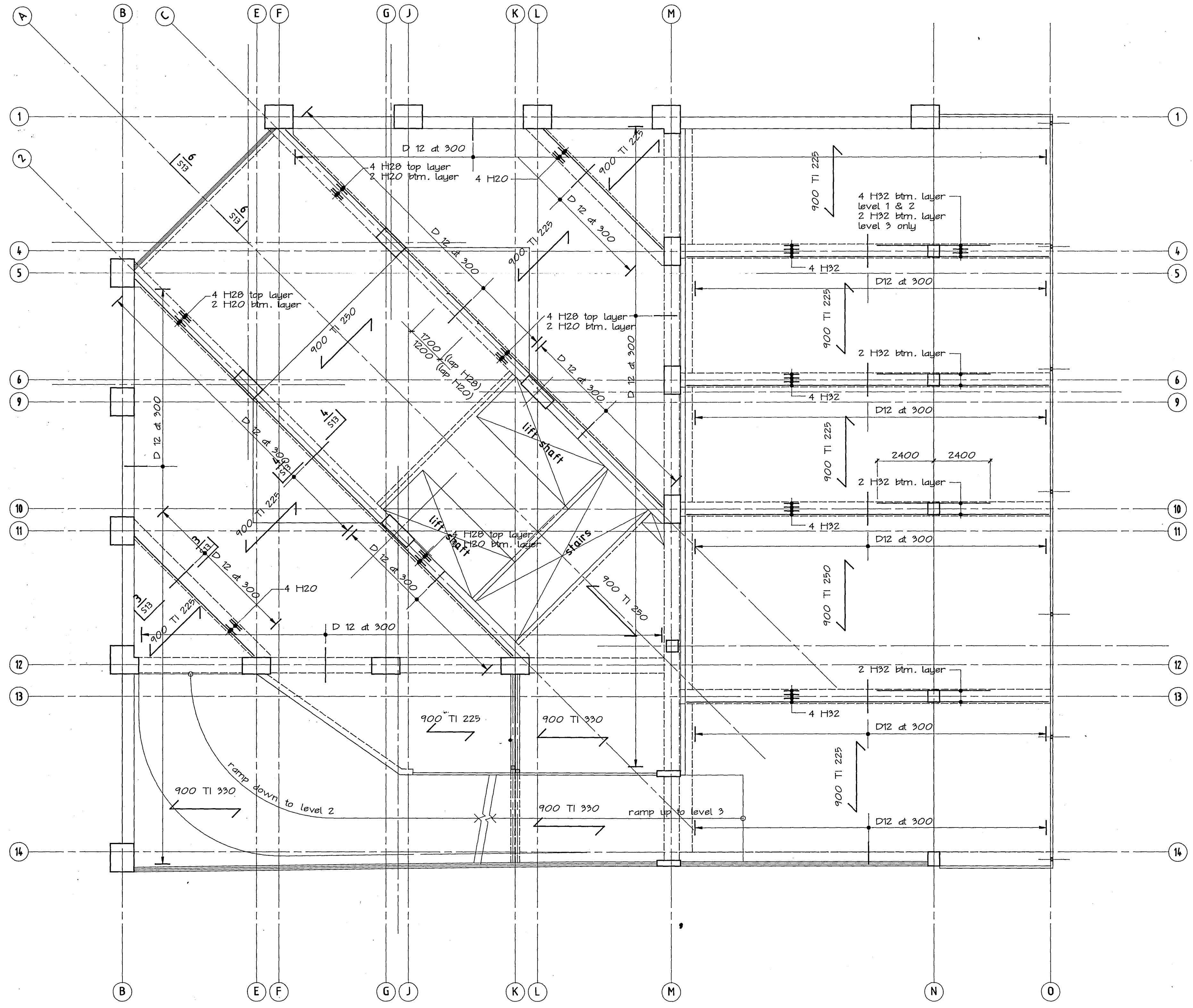
JOB NO: 2281 SHEET NO: S105 REV: 1

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

4	6	7	8	9	10	11	12	13	14	15	17	31	45
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Rev.	Date	Amendment
1	4/3/88	permit



typical floor reinf. level 2  
 reinf. levels 1 & 3 similar except as noted

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 For Engineer

DRAWN: H.A.O. SCALE: 1:100  
 APPROVED:

SHEET TITLE:  
 FLOOR PLAN  
 level 1, 2 & 3  
 REINFORCING

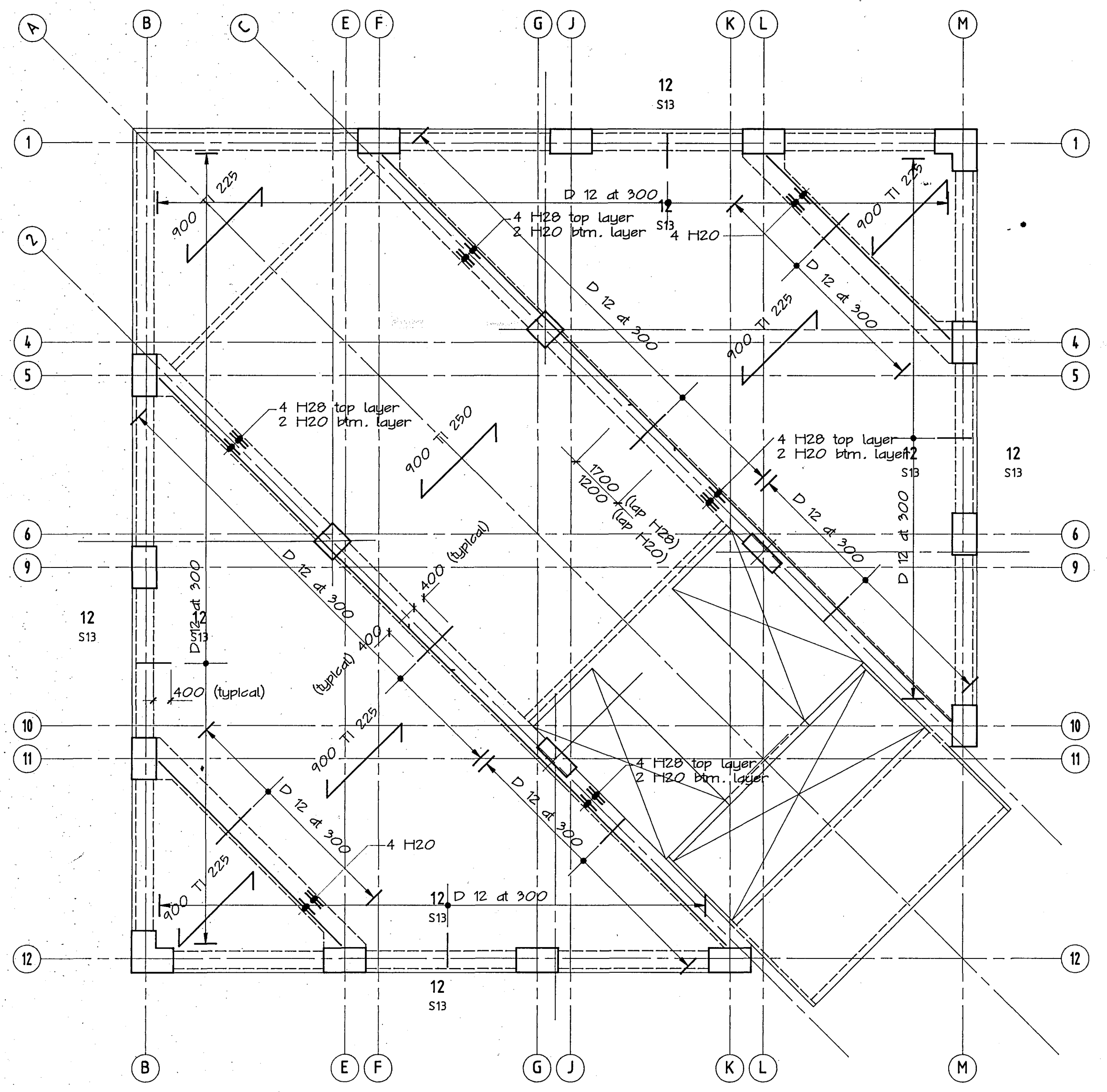
JOB NO: 2281	SHEET NO: S107	REV: 1
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ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

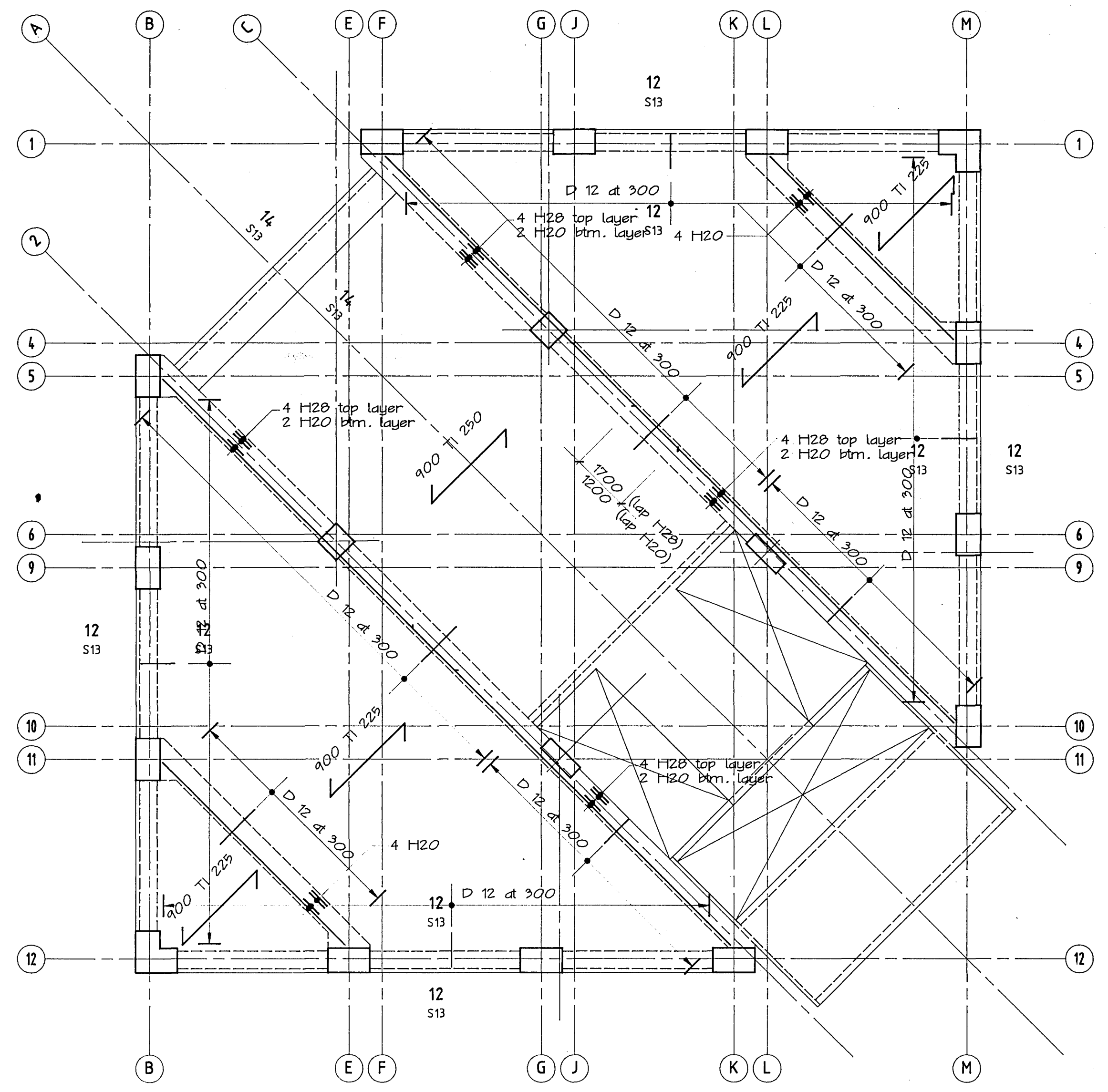
For package number

4	6	7	8	9	10	11	12	13	14	15	17	31	45
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Rev.	Date	Amendment
1	4/3/88	permit



typical floor reinf. level 5 to 8



typical floor reinf. level 4 & 9 to 20

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DRAWN: H.A.O. SCALE: 1 : 100  
APPROVED: [Signature]

SHEET TITLE:  
FLOOR PLANS  
LEVELS 4 TO 20  
REINFORCING

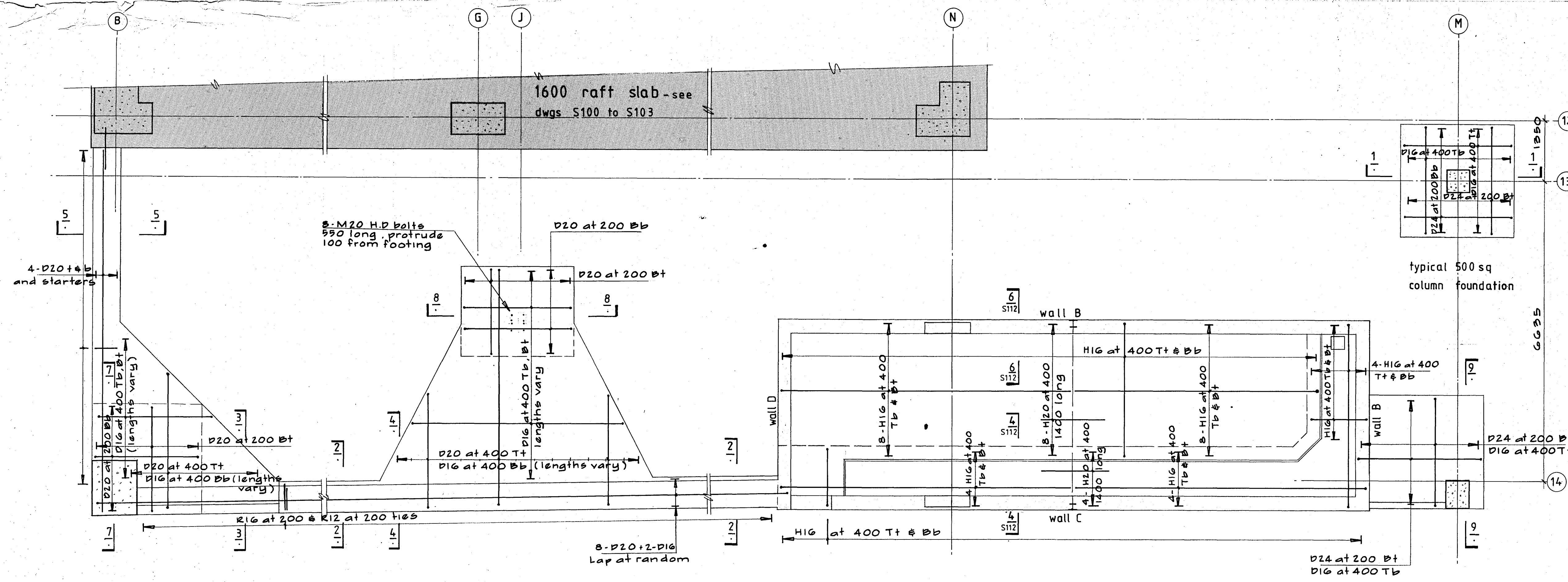
JOB NO: 2281	SHEET NO: S108	REV: 1
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ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

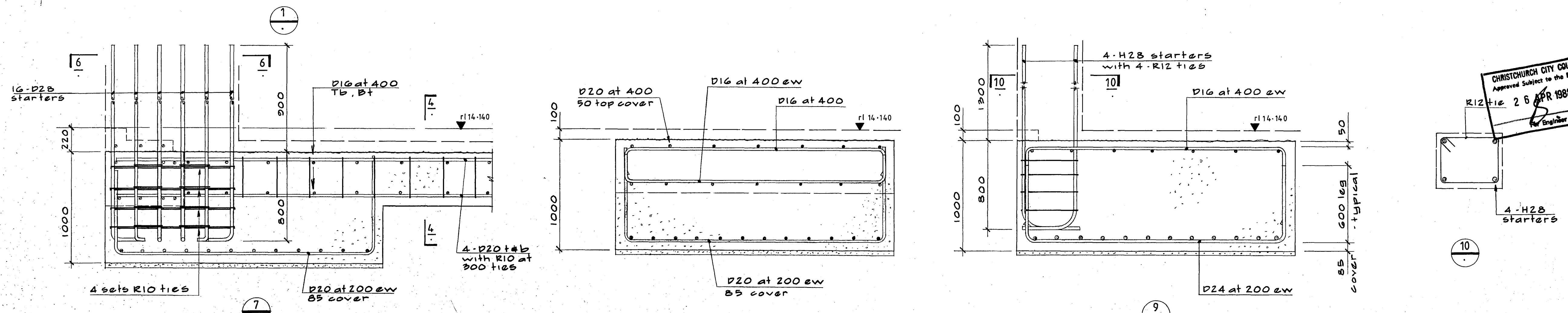
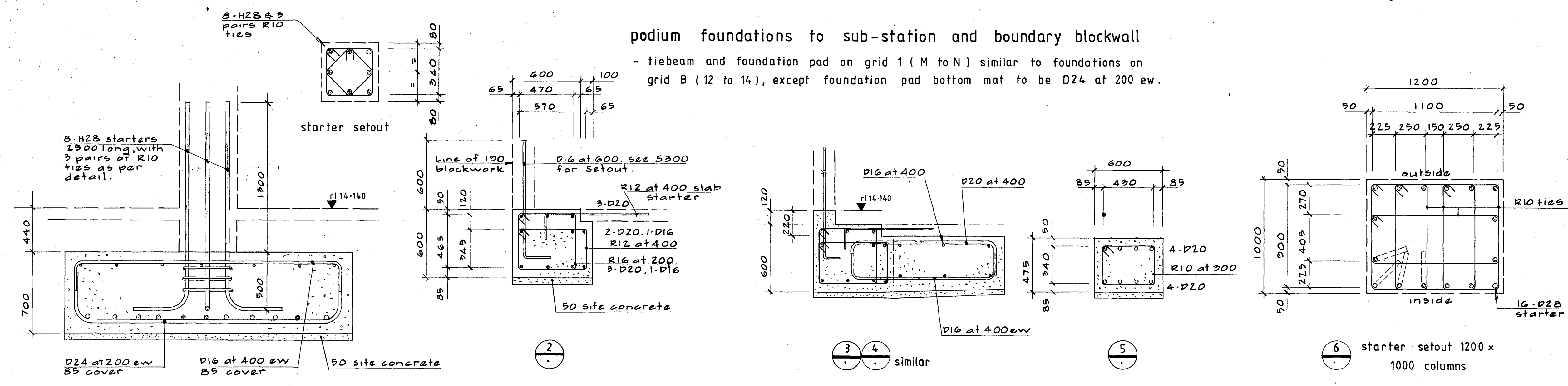
For package number															
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Rev	Date	Amendments
1	4/3/88	PERMIT



podium foundations to sub-station and boundary blockwall

- tiebeam and foundation pad on grid 1 (M to N) similar to foundations on grid B (12 to 14), except foundation pad bottom mat to be D24 at 200 ew.



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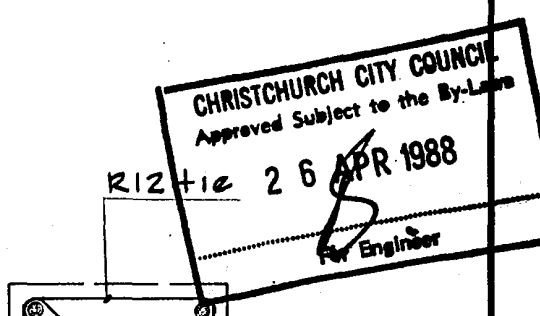
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LANDMARK TOWER  
CHRISTCHURCH

DRAWN: G.K.R. SCALE: 1:50 1:20  
APPROVED: R.A.P.

SHEET TITLE:  
PODIUM AND SUBSTATION  
FOUNDATIONS - REINFORCING

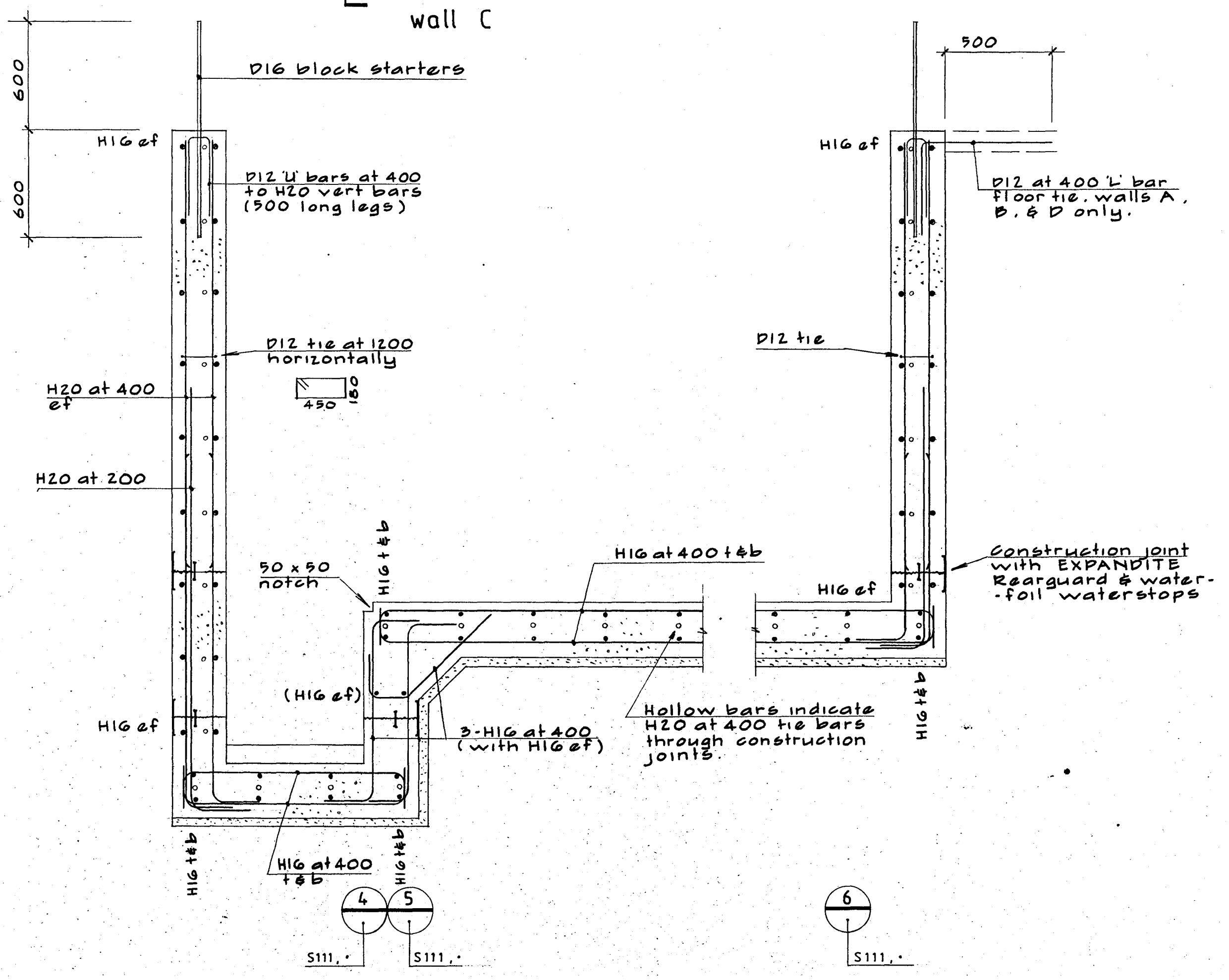
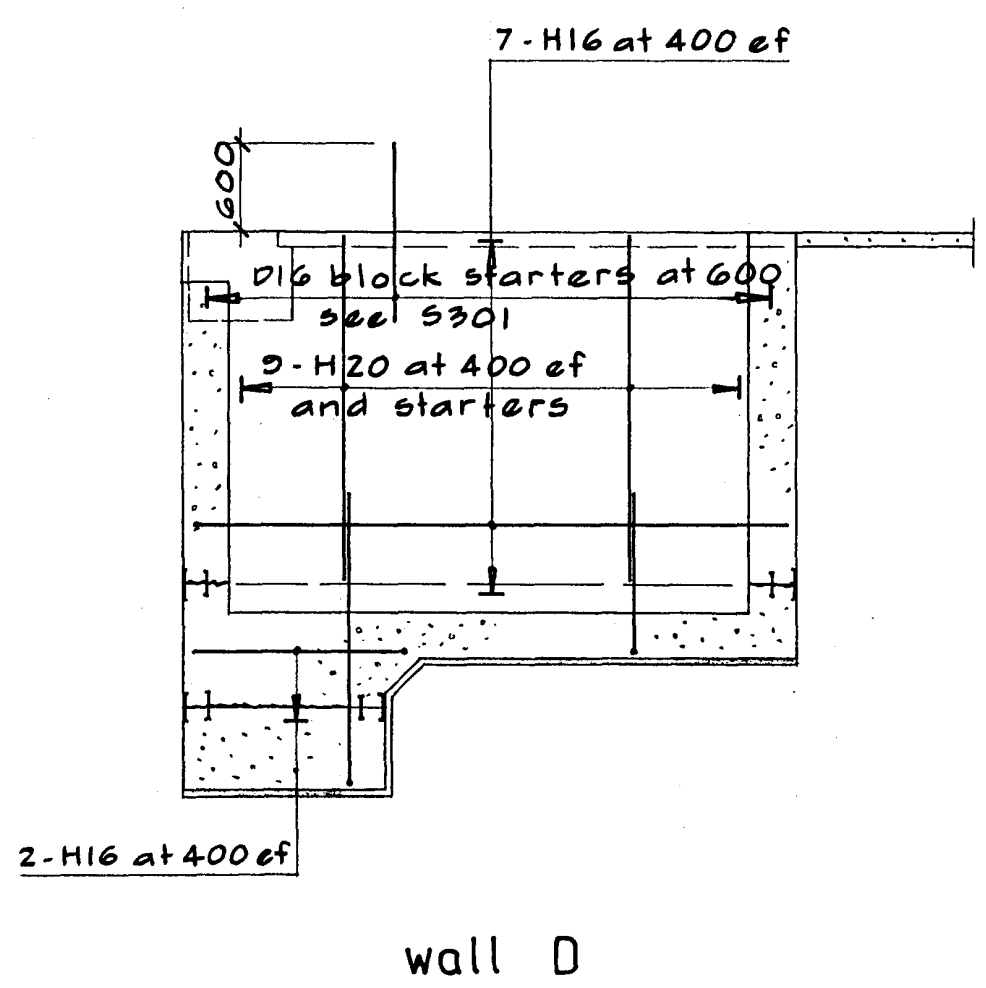
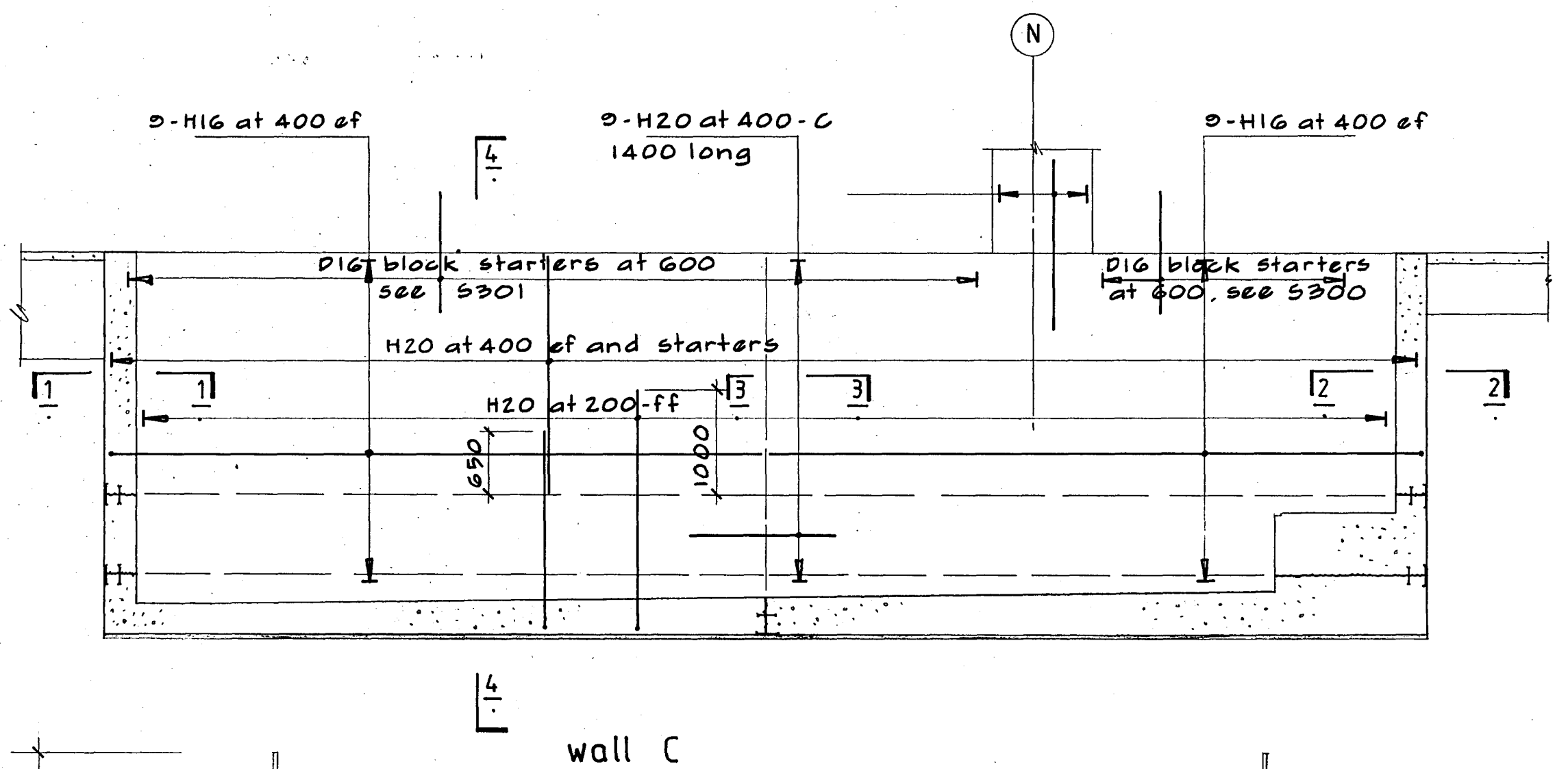
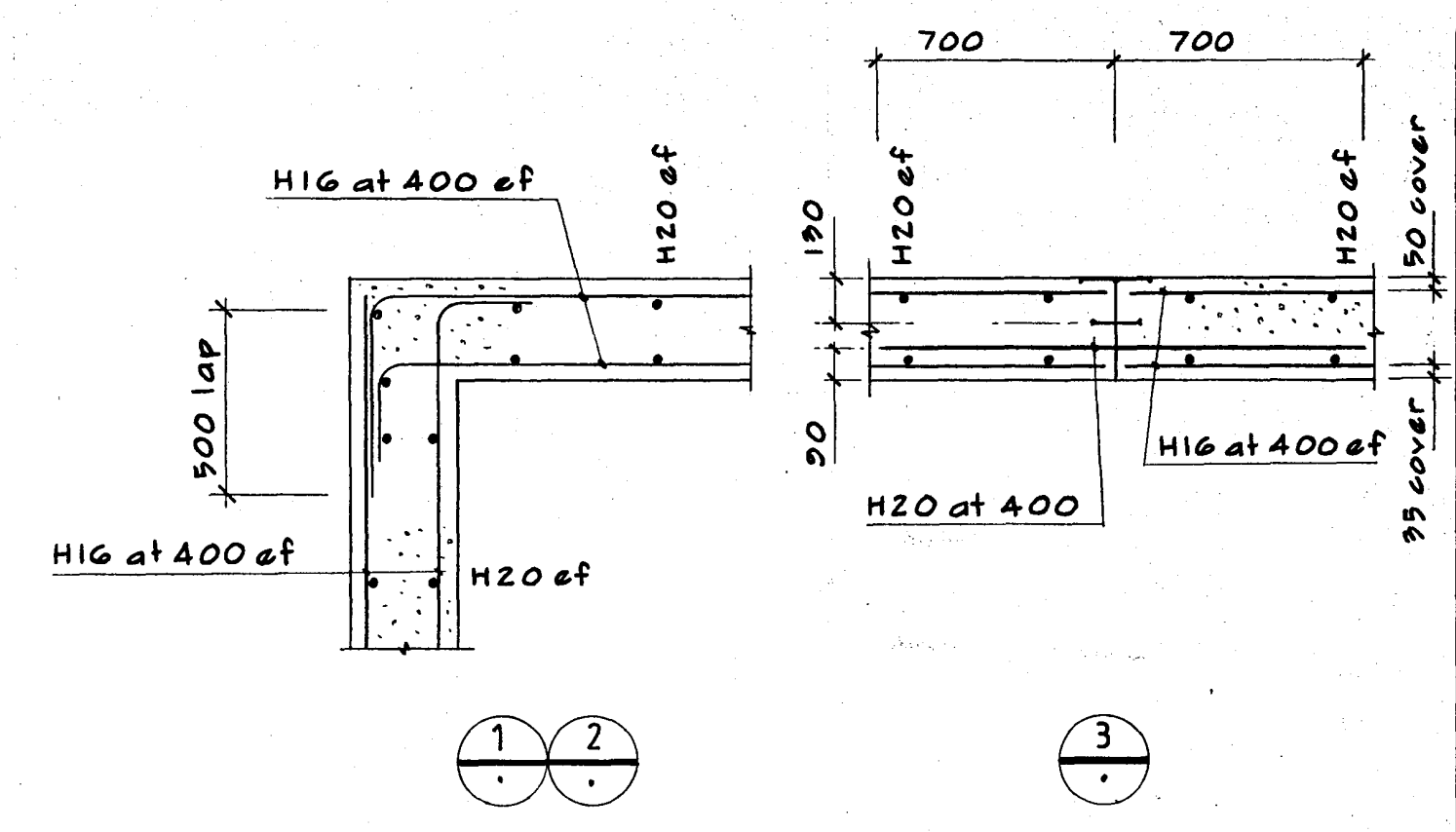
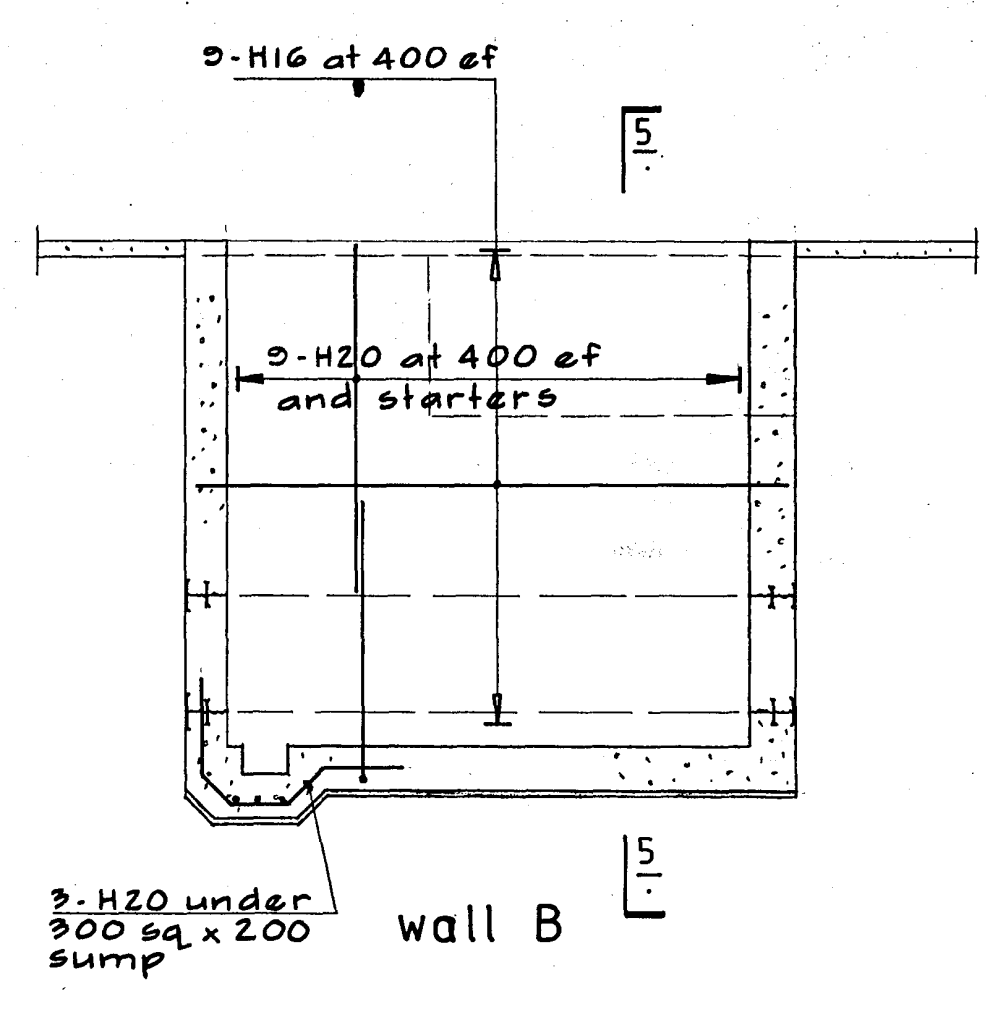
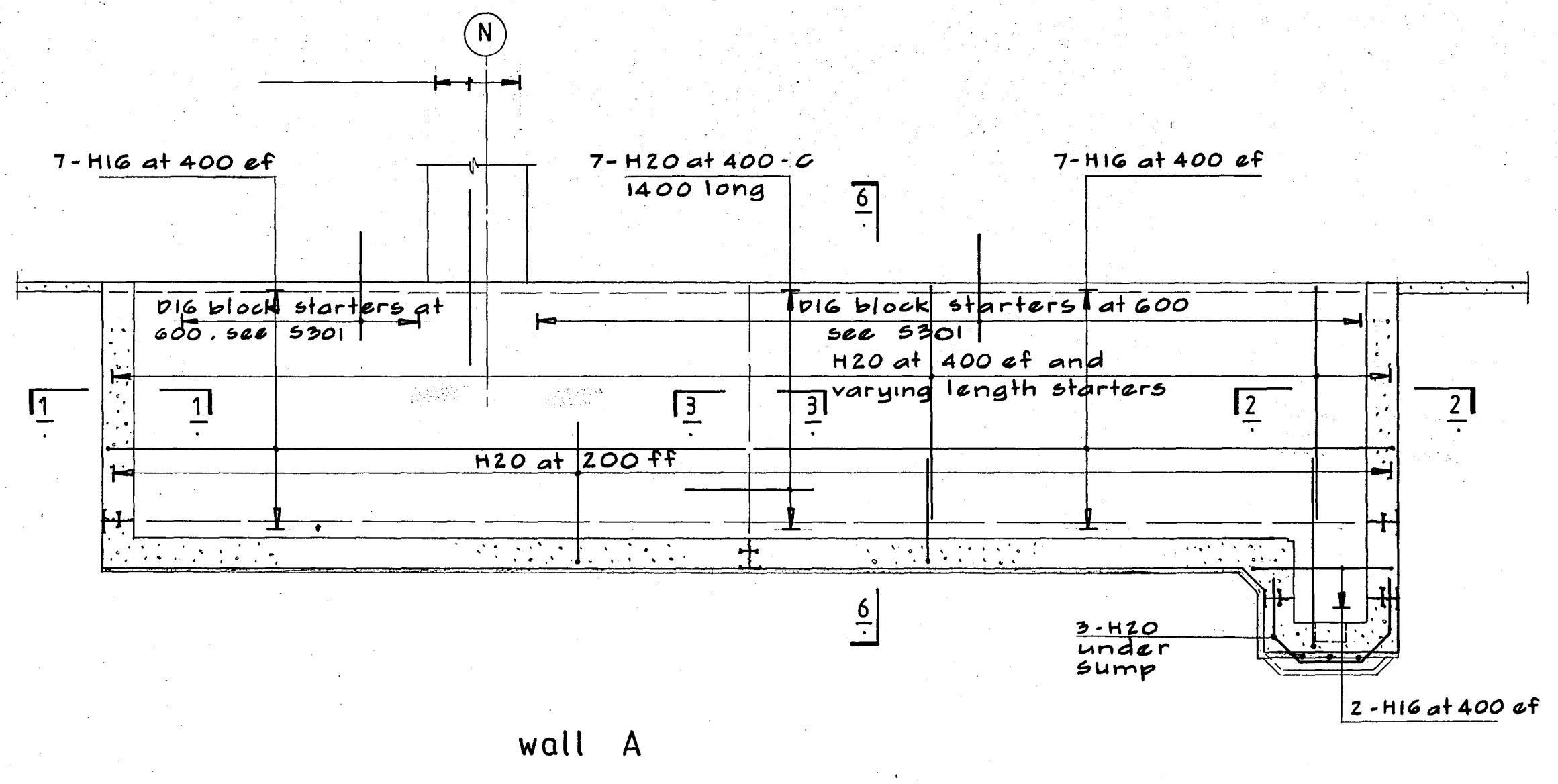
JOB NO: 2281 SHEET NO: S111 REV: 1



ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number														
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Rev	Date	Amendments
1	4/3/88	PERMIT



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26 APR 1988  
For Engineer

DRAWN: G. K. R. SCALE: 1:50 1:20  
APPROVED: R.A.P.

SHEET TITLE:  
SUBSTATION WALL REINFORCING  
AND DETAILS

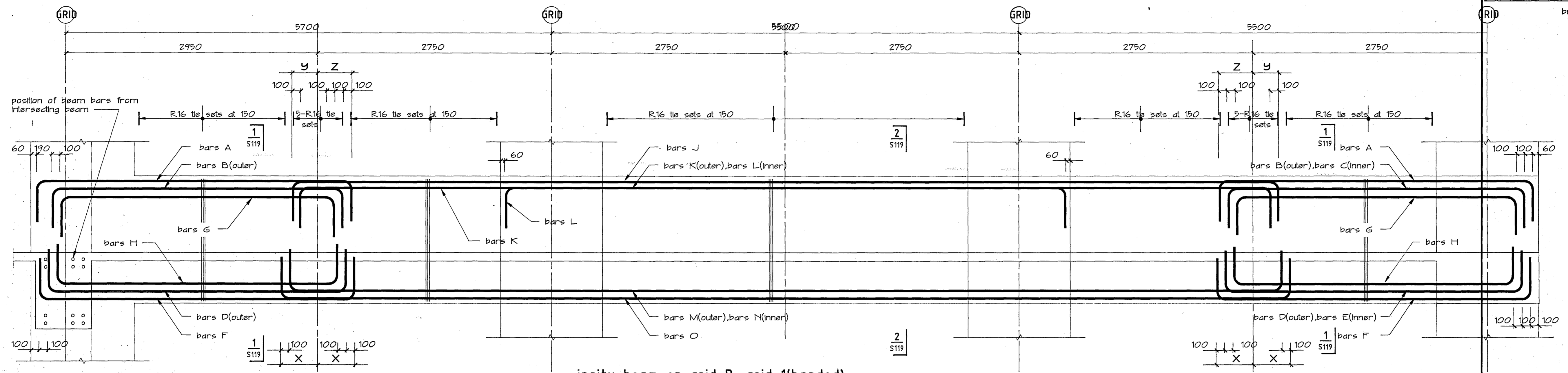
JOB NO: 2281 SHEET NO: S112 REV: 1

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

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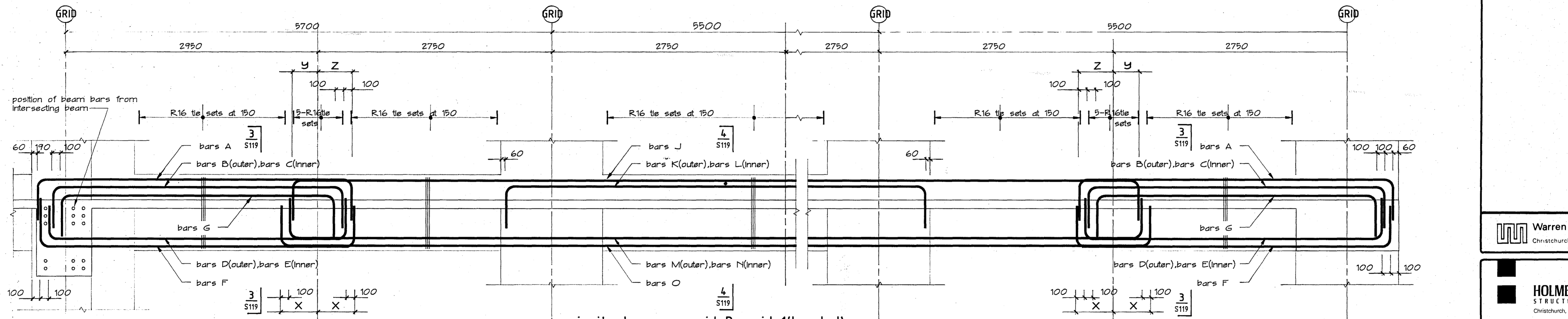
bml1B1.dwg



insitu beam on grid B, grid 1(handed) levels 1 and 2 only

NOTES: see sht.S120 for details of beam/column joint reinforcing and sht.S122 for typical sections at joints

Rev	Date	Amendment
1	4/3/88	PERMIT



insitu beam on grid B, grid 1(handed) level 3 only

NOTES: see sht.S120 for details of beam/column joint reinforcing and sht.S122 for typical sections at joints

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LEVEL	GRIDS	BEAM SIZE wide - deep	REINFORCING LAYER LAYOUT																	TIE SET TYPES					LAP LENGTH	FIXING DETAILS	REMARKS
			A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	A	B	X	Y	Z				
3	B.1(handed)	800 x 900 o/a	3-D32	2-D32	1-D32	2-D24	—	3-D32	—	—	4-D32	2-D32	—	2-D32	—	4-D32	—	—	R16 at 150	R16 at 150	390	340	340				
2	B.1(handed)	900 x 1500 o/a	2-D32	2-D32	—	2-D32	—	2-D32	2-D32	2-D24	3-D32	2-D32	1-D32	2-D32	1-D32	3-D32	—	—	R16 at 150	R16 at 150	490	440	540				
1	B.1(handed)	900 x 1500 o/a	2-D32	2-D32	—	2-D32	—	2-D32	2-D32	2-D24	3-D32	1-D32	2-D32	2-D32	1-D32	3-D32	—	—	R16 at 150	R16 at 150	490	440	540				

DRAWN: g.a.e. SCALE: 1:25  
APPROVED: R.a.P.

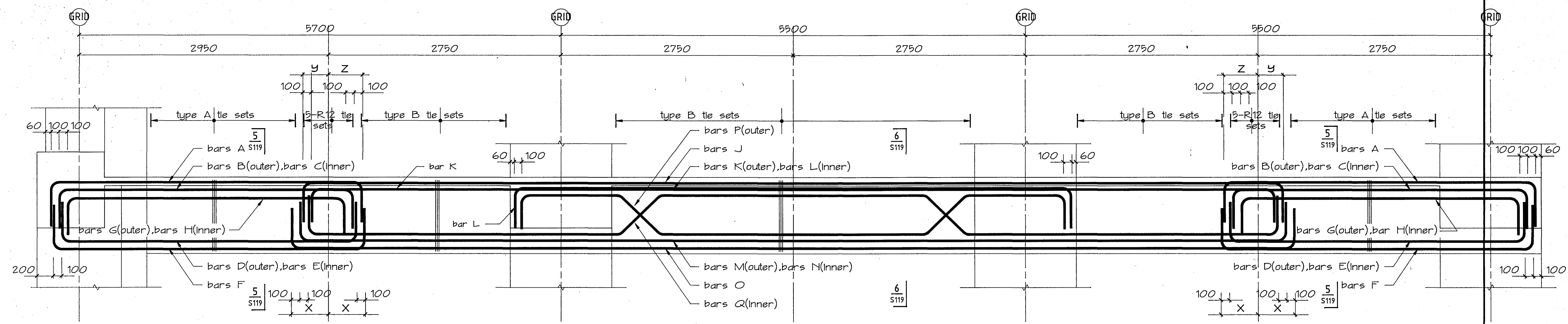
SHEET TITLE:  
EXTERNAL INSITU BEAMS  
LEVEL 1 to 3, GRIDS 1 & B  
REINFORCING

JOB NO: 2281 SHEET NO: S115 REV: 1

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

for package number

4	6	7	8	9	10	11	12	13	14	15	17	31	45
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1	4-3-88	Permit
Rev	Date	Amendment

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26/4/88  
R.P. Engineer

**LANDMARK TOWER**  
**CHRISTCHURCH**

LEVEL	GRIDS	BEAM SIZE wide - deep	REINFORCING LAYER LAYOUT																	TIE SET A	TIE SET B	LAP X	LENGTH Y	LENGTH Z	FIXING DETAILS	REMARKS
			A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q								
4	M, 12(handed)	650 x 900 o/a	3-D32	2-D32	1-D32	2-D32	—	3-D32	2-D24	—	4-D32	2-D24	2-D32	2-D24	2-D32	4-D32	—	—	R12 at 100	R16 at 150	490	340	440			
3	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "		
2	" "	" "	3-D32	2-D32	1-D32	2-D32	—	3-D32	2-D32	—	4-D32	2-D24	2-D32	2-D24	2-D32	4-D32	—	—	R16 at 150	R16 at 150	490	440	540			
1	" "	" "	3-D32	2-D32	1-D32	2-D32	—	3-D32	2-D32	1-D32	4-D32	2-D24	2-D32	2-D24	2-D32	4-D32	2-D32	2-D32	" "	" "	" "	" "	" "	" "		

DRAWN: g.a.e. SCALE: 1:25  
APPROVED: R.P.

SHEET TITLE:  
**EXTERNAL INSITU BEAMS**  
**LEVELS 1 to 4, GRIDS 12 & M**  
**REINFORCING**

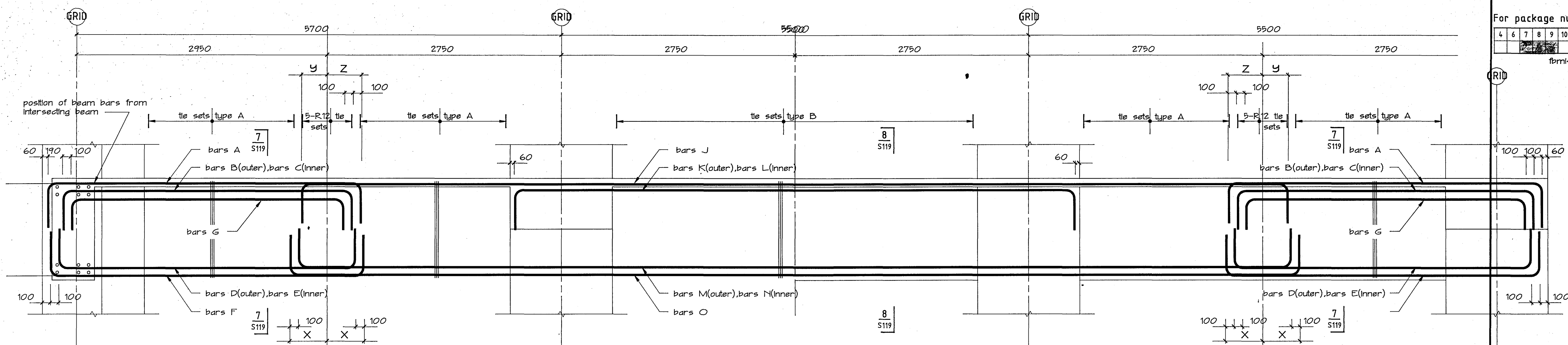
JOB NO:	SHEET NO:	REV:
2281	S116	1

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

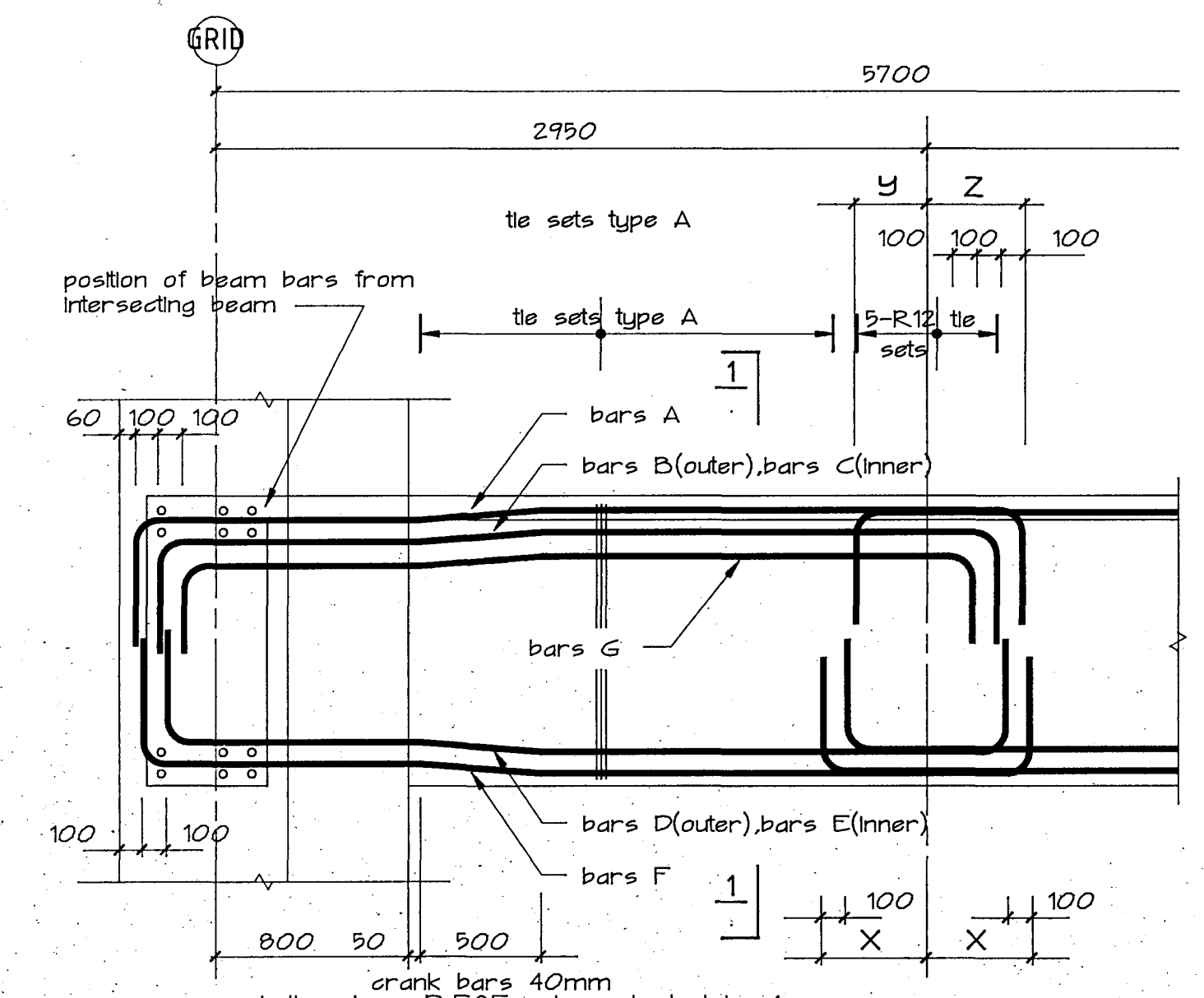
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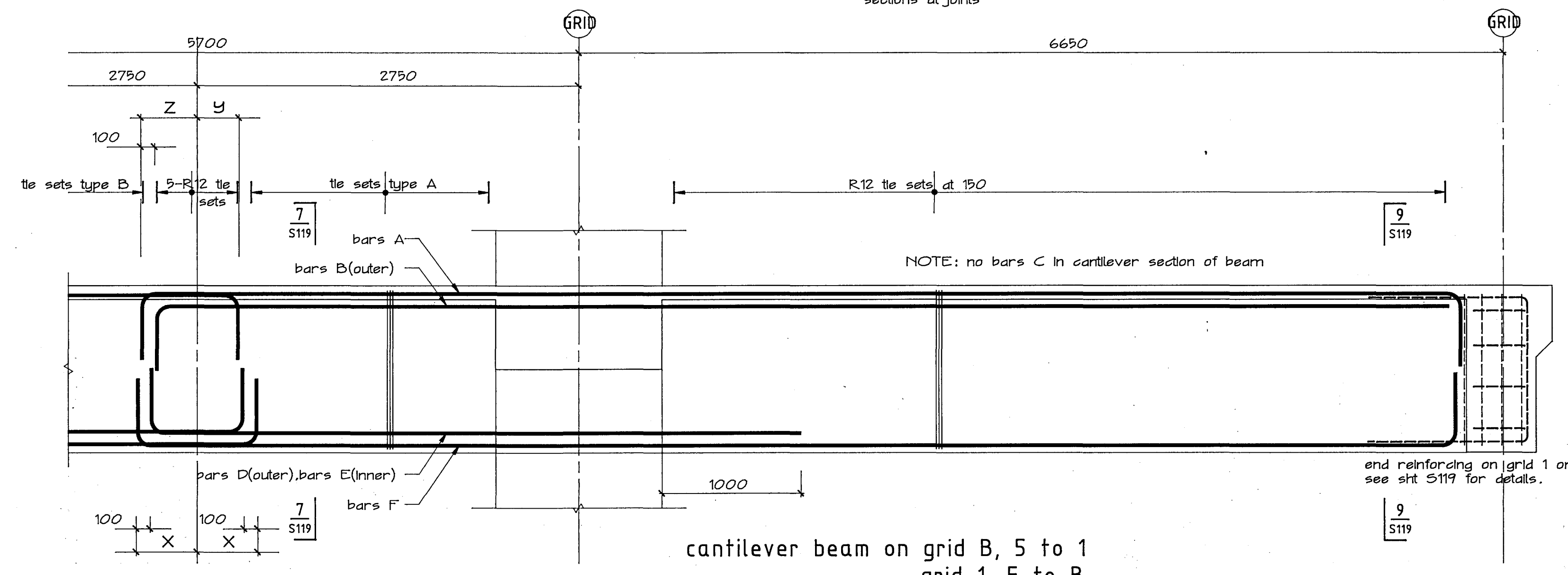
insitu beam on grid B, M(similar) grids 1 & 12 (handed)

NOTES 1: see sht.S120 for details of beam/column joint reinforcing and sht.S122 for typical sections at joints



part insitu beam on grid M (1/4) & grid 12 (B/E)

NOTE 3: beam bars cranked on beams M(1/4) and 12(B/E)



cantilever beam on grid B, 5 to 1 grid 1, F to B

NOTE 2: beam extends as cantilever from B/5 and F/1 to B/1

NOTE: no bars C in cantilever section of beam

end reinforcing on grid 1 only see sht S119 for details.

LEVEL	GRIDS	BEAM SIZE wide - deep	REINFORCING LAYER LAYOUT																	TIE SET TYPES A B	LAP LENGTH X Y Z	FIXING DETAILS	REMARKS
			A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q					
9	B, 1(handed)	900 x 1200o/a	3-D32	2-D24	—	2-D24	—	3-D32	—	—	4-D32	—	—	—	—	4-D32	—	R12 at 100	R12 at 150	390	340	340	NOTE 2
9	M, 12(handed)	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	NOTE 3
8	B, 1(handed)	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	R12 at 150	. .	. .	. .	. .	NOTE 2
8	M, 12(handed)	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	NOTE 3
7	B, 1(handed)	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	NOTE 2
7	M, 12(handed)	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	NOTE 3
6	B, 1(handed)	. .	3-D32	2-D32	1-D32	2-D24	—	3-D32	—	—	4-D32	2-D32	—	2-D32	—	4-D32	—	R12 at 100	R16 at 150	390	340	340	NOTE 2
6	M, 12(handed)	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	NOTE 3
5	B, 1(handed)	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	NOTE 2
5	M, 12(handed)	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	NOTE 3
4	B, 1(handed)	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	R12 at 100	. .	. .	. .	. .	NOTE 2

bars D,E&F are not cranked at 12/B-E and M/1-4

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Christchurch, Wellington, New Plymouth, Auckland

LANDMARK TOWER  
CHRISTCHURCH

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
R. Engineer

DRAWN: g.a.e. SCALE: 1:25  
APPROVED: R.A.P.

SHEET TITLE:  
EXTERNAL INSITU BEAMS  
LEVELS 4-9, GRIDS 1,12,B&M  
REINFORCING

JOB NO: 2281 SHEET NO: S117 REV: 1

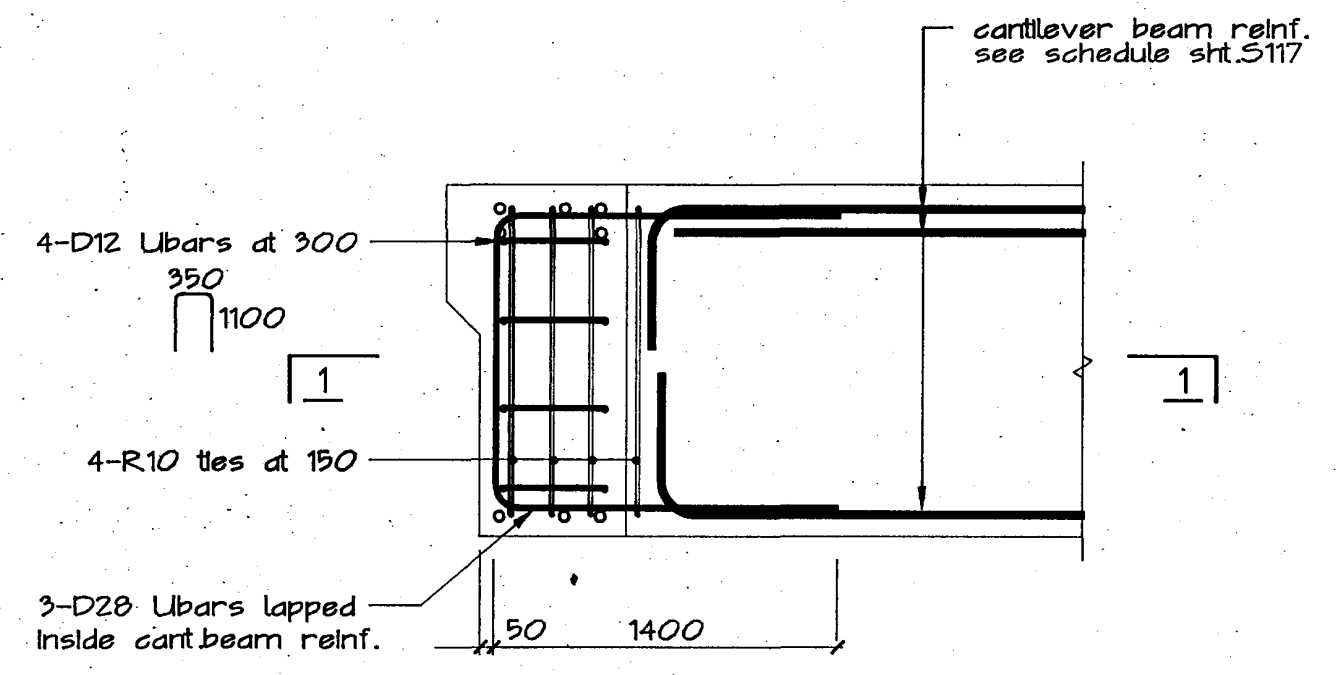


ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

4	6	7	8	9	10	11	12	13	14	15	17	31	45
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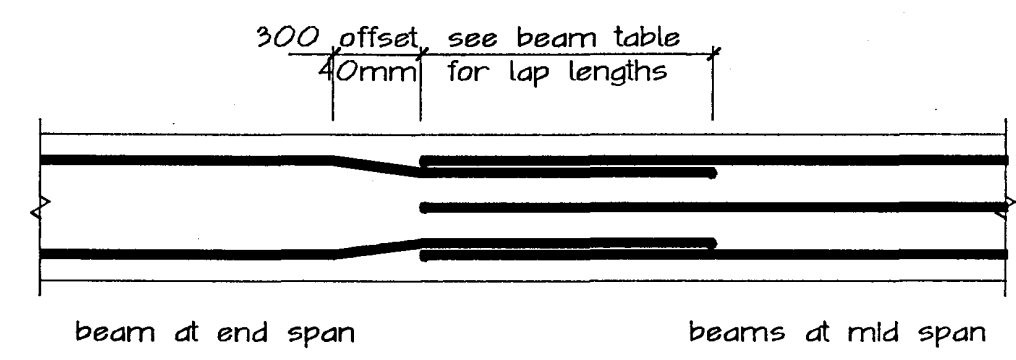
Rev.	Date	Amendment
1	4/3/08	permit



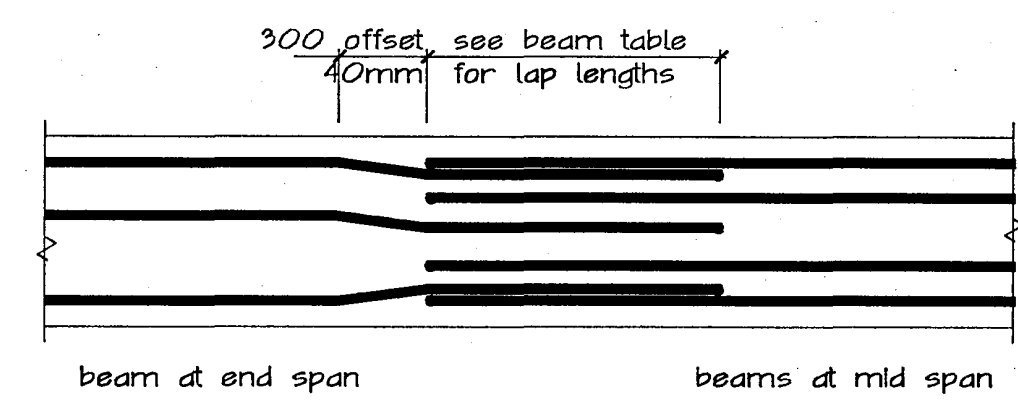
corner connection at cantilever beams levels 5 to 9

reinf. bar end detail

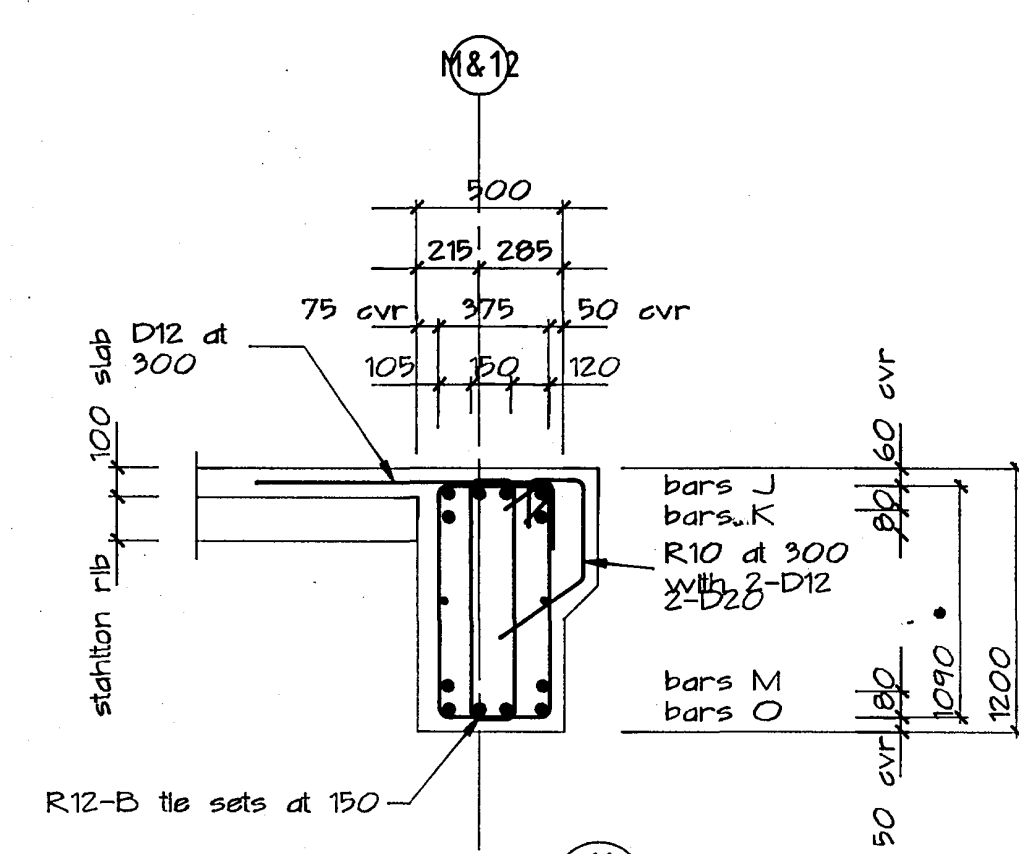
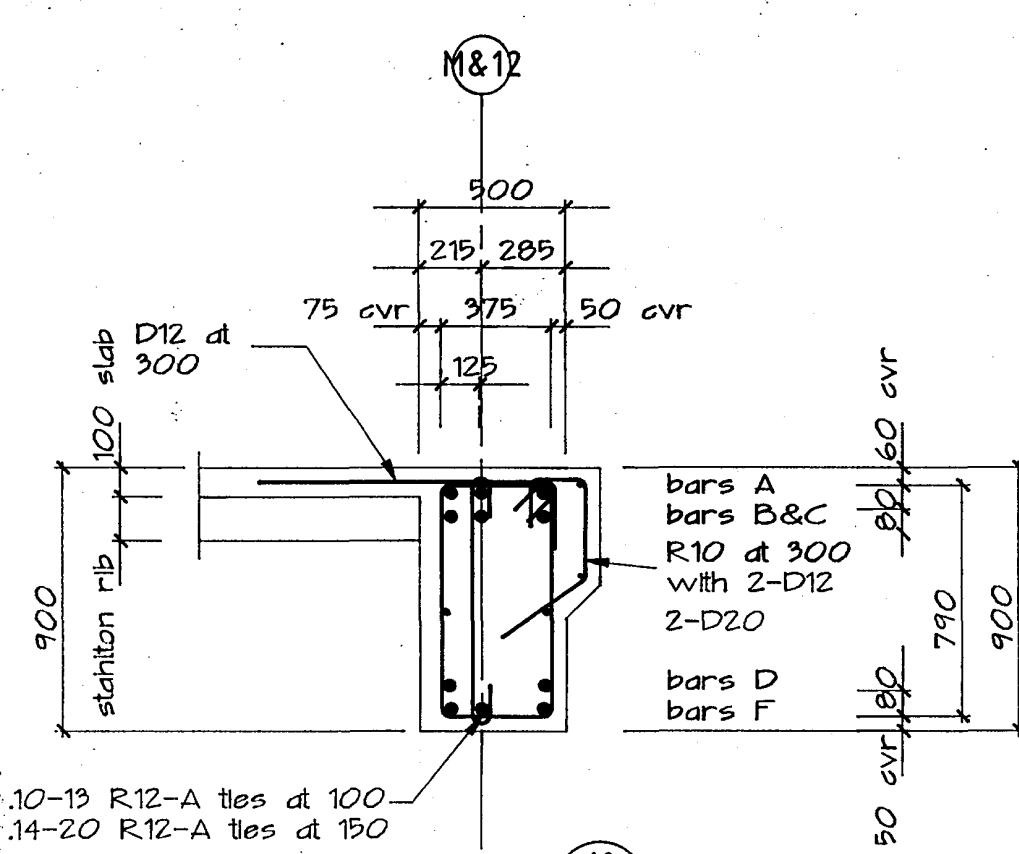
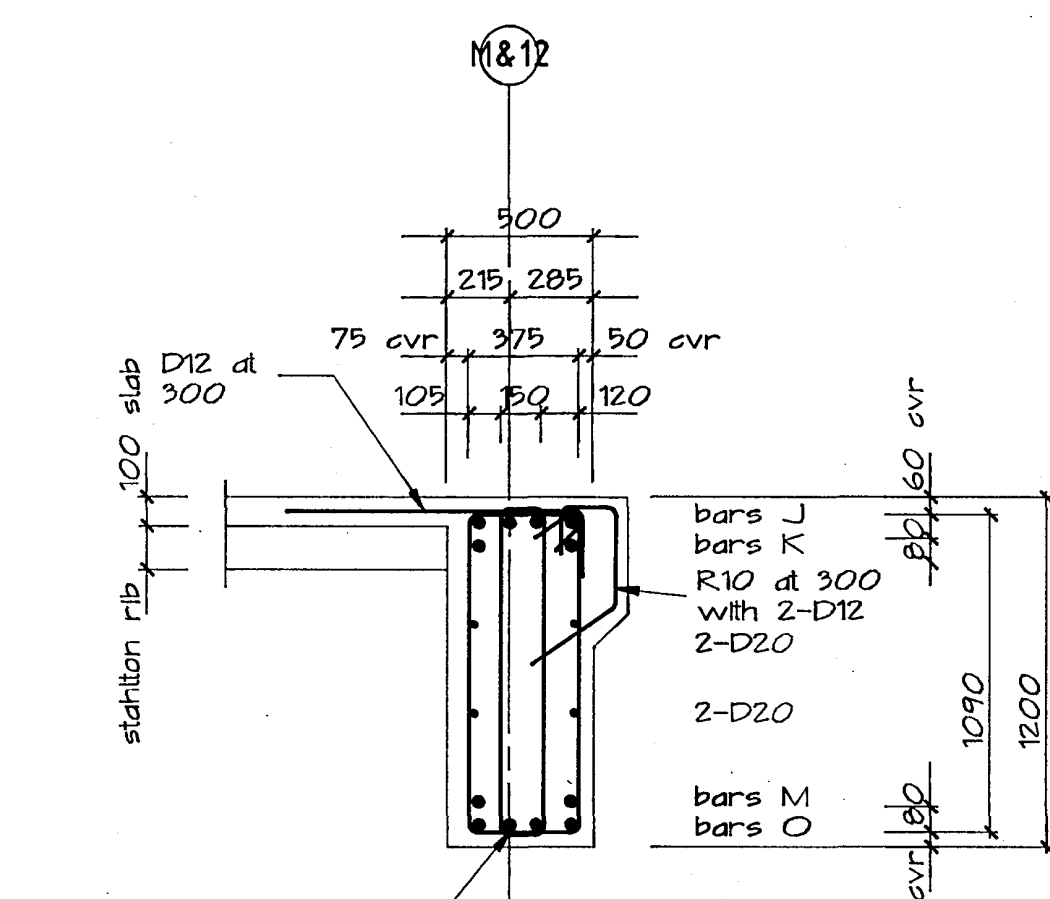
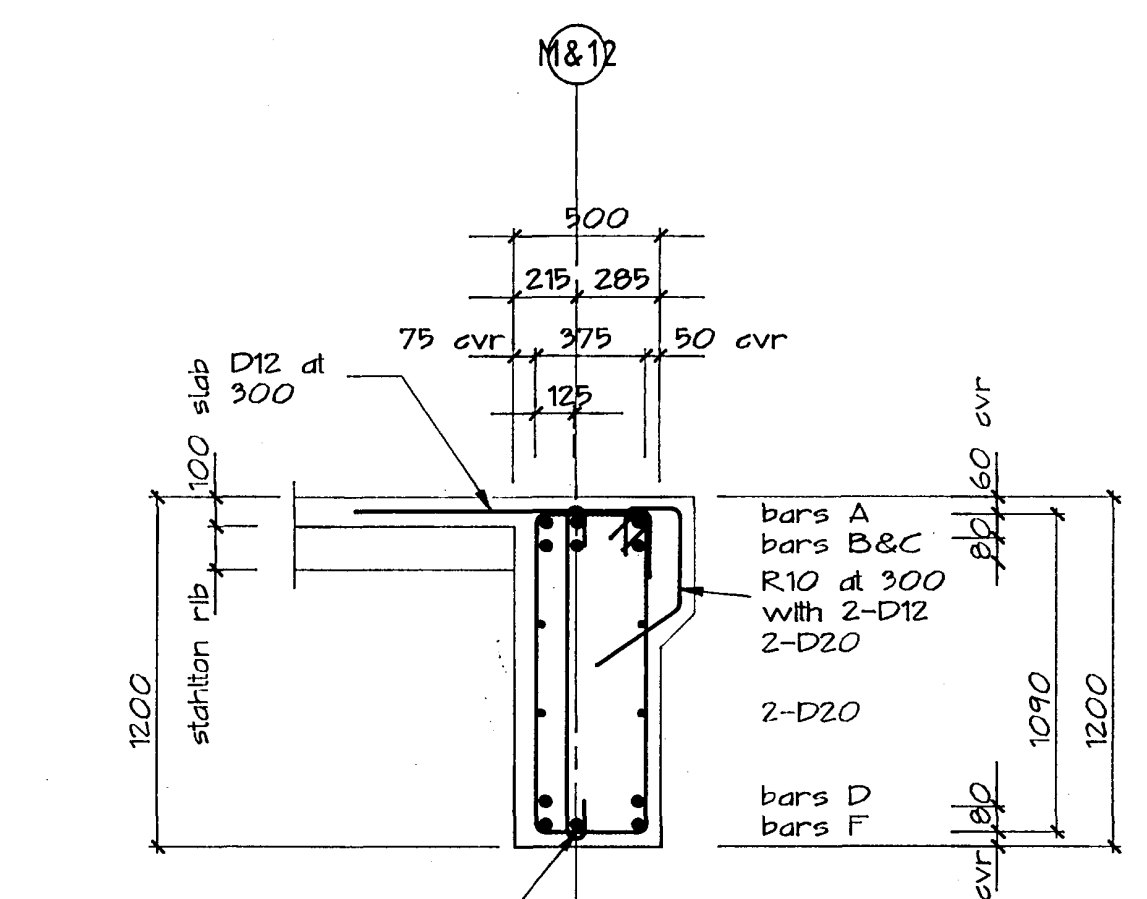
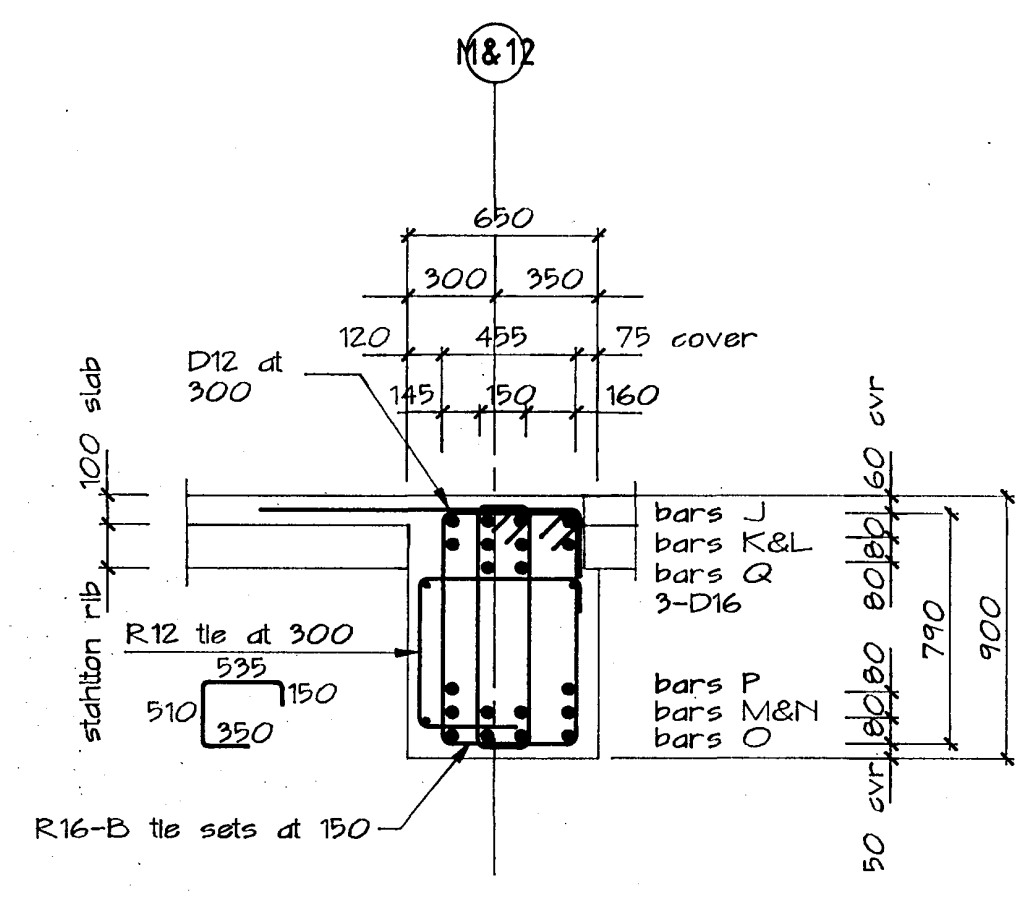
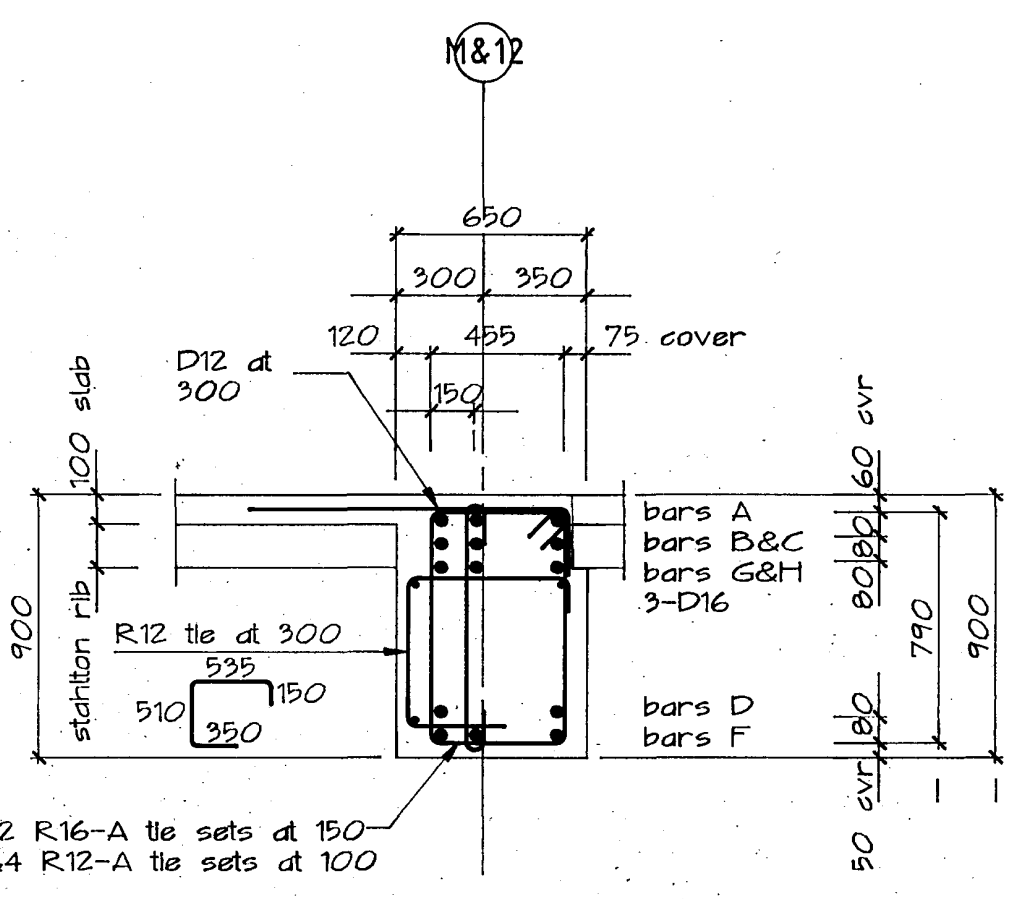
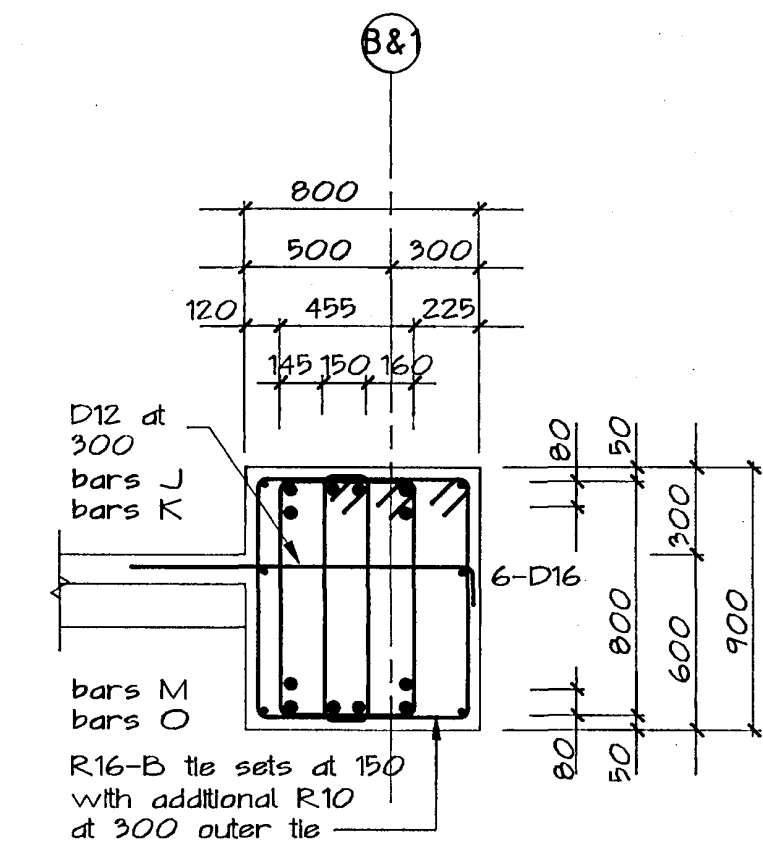
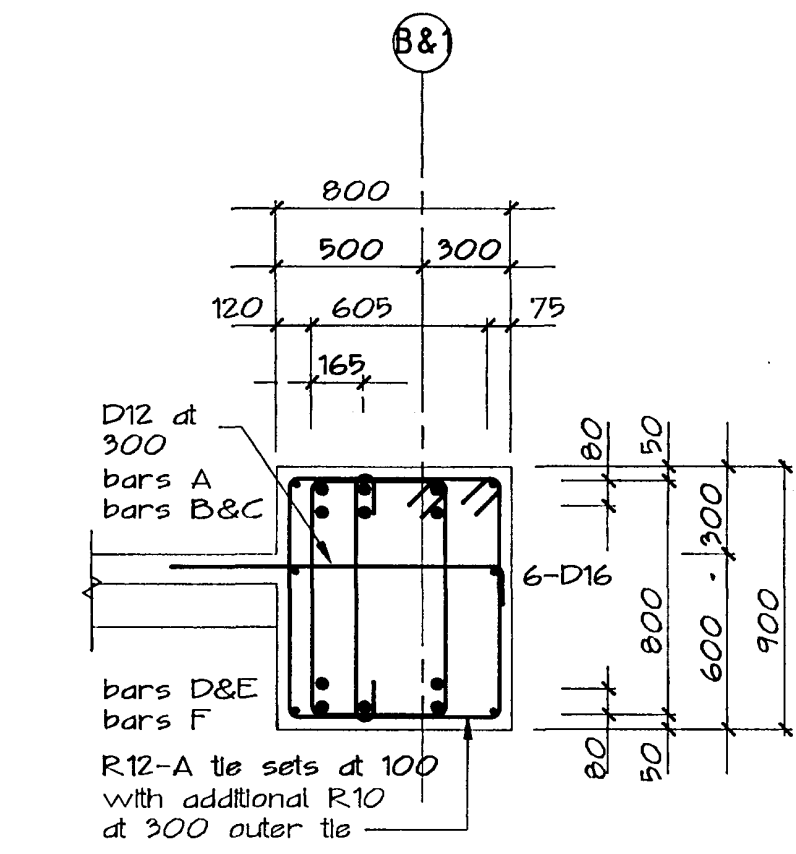
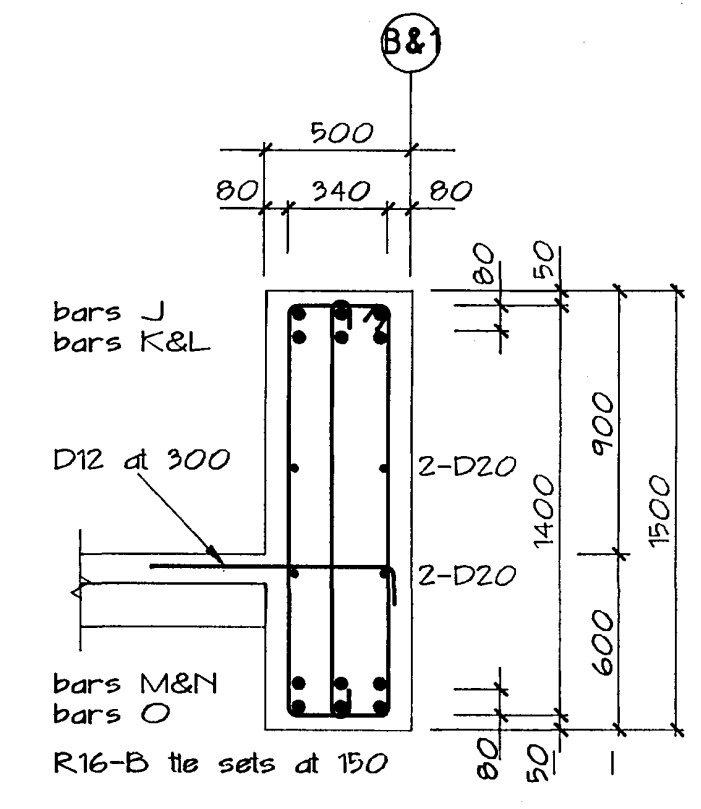
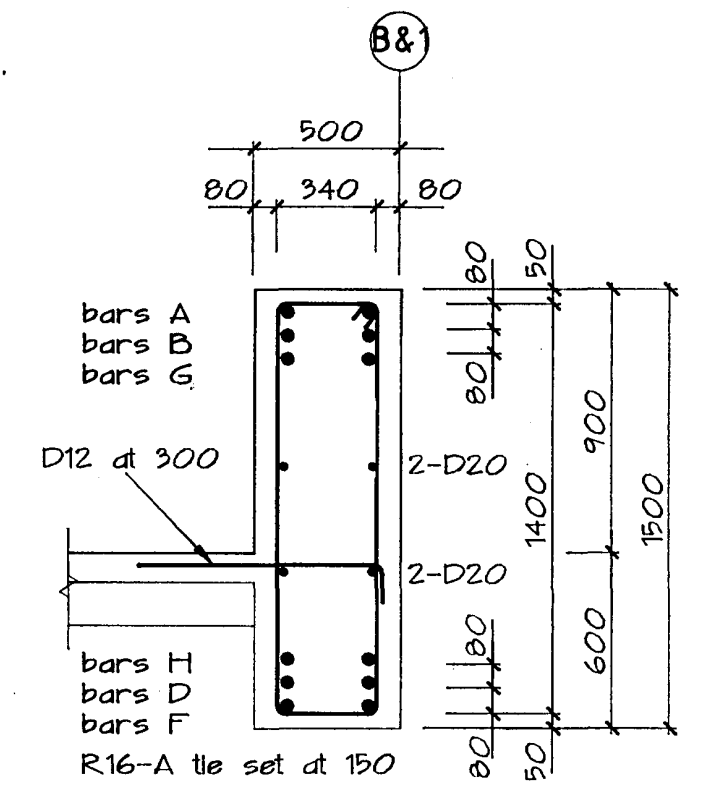
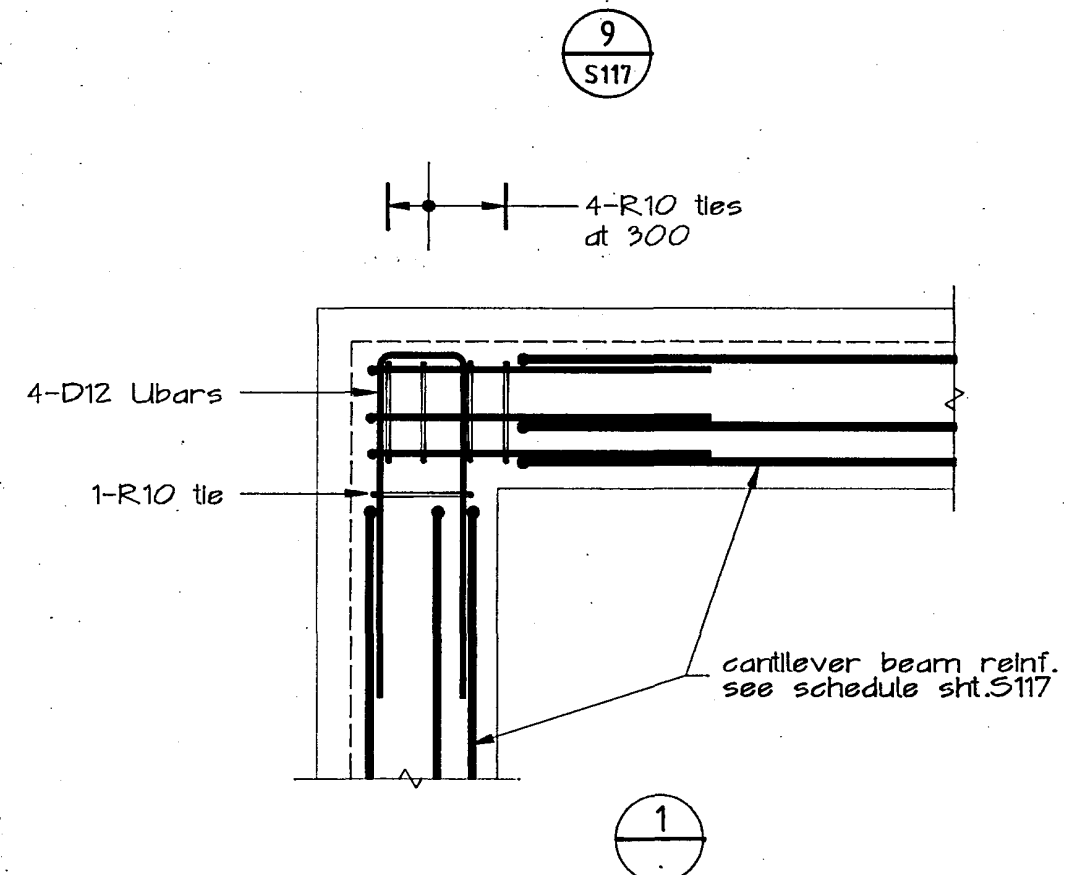
BAR DIA.	LENGTH 'A'	RAD. 'B'
D20	350	100
D24	400	120
D28	450	140
D32	510	192



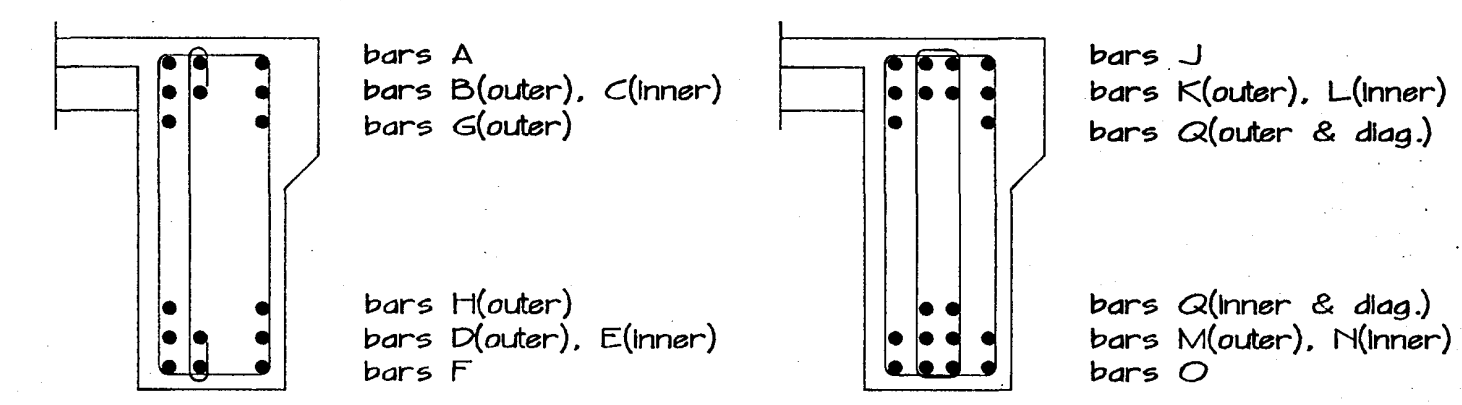
typical beam lap level 1&2 grids 1&B



typical beam lap



typical 900 and 1200 beam profile



typical beam bar positions

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Christchurch Wellington Auckland

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Christchurch, Wellington, New Plymouth, Auckland

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1998  
Per Engineer

LANDMARK TOWER  
CHRISTCHURCH

DRAWN: g.a.e SCALE: 1:25  
APPROVED: R.A.P.

SHEET TITLE:  
EXTERNAL INSITU BEAMS,  
SECTIONS AND DETAILS  
REINFORCING

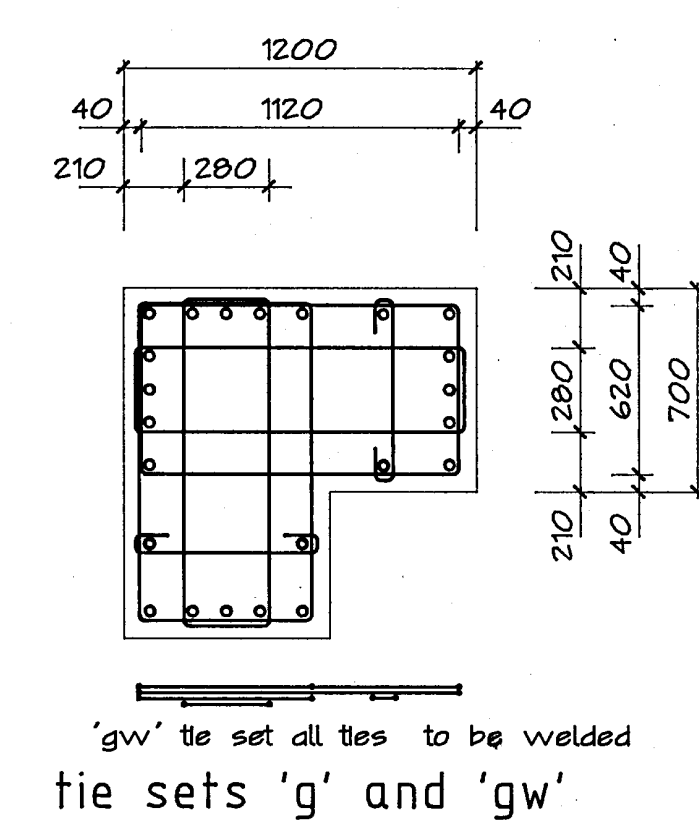
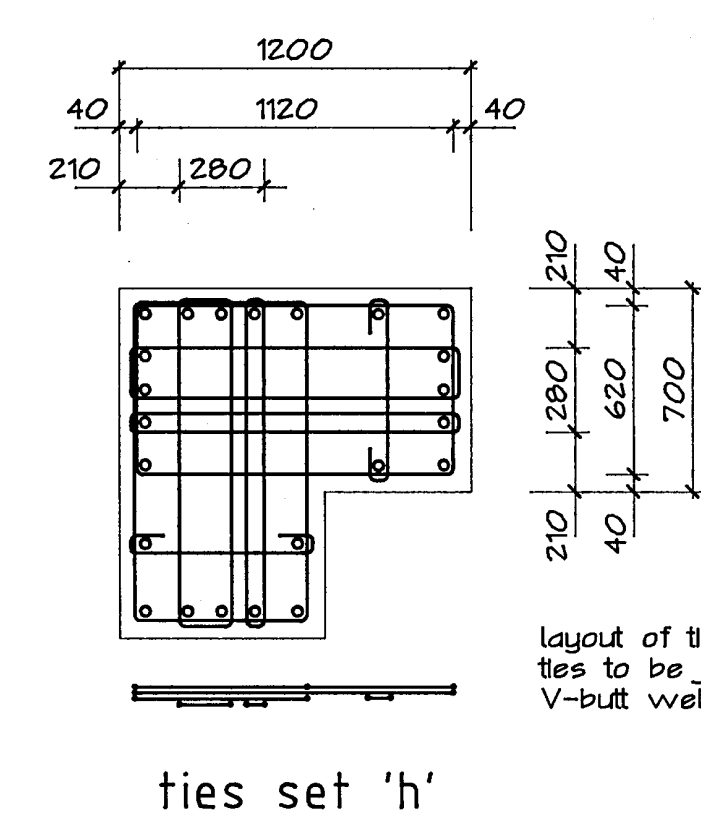
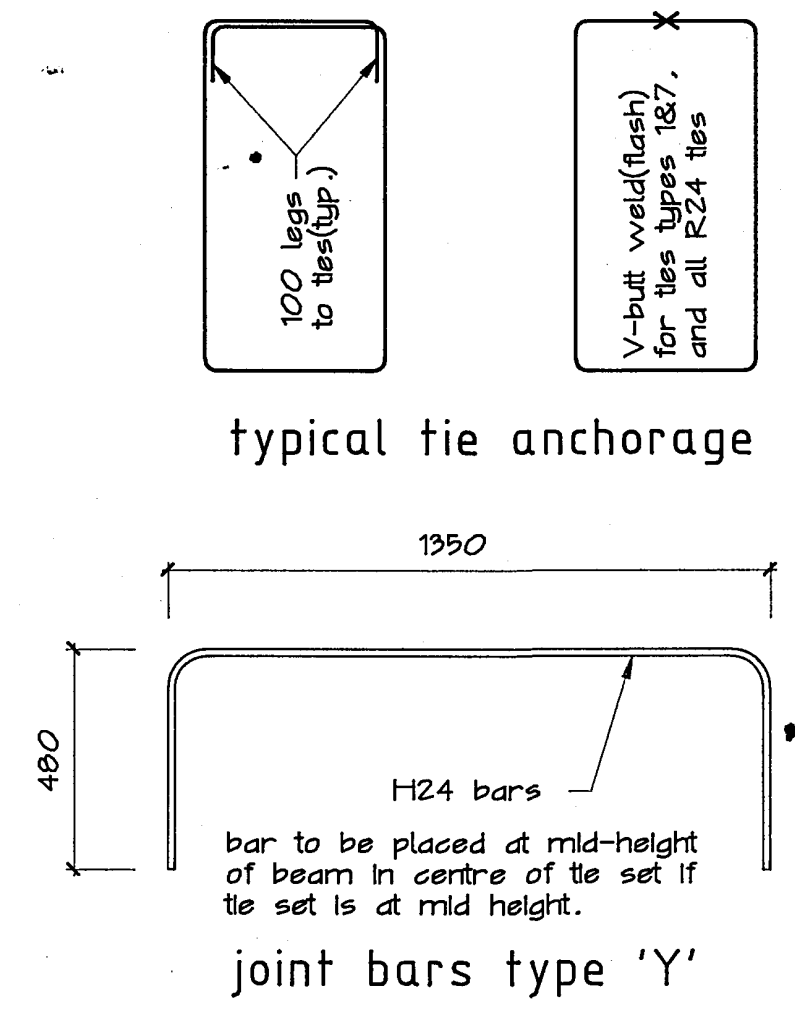
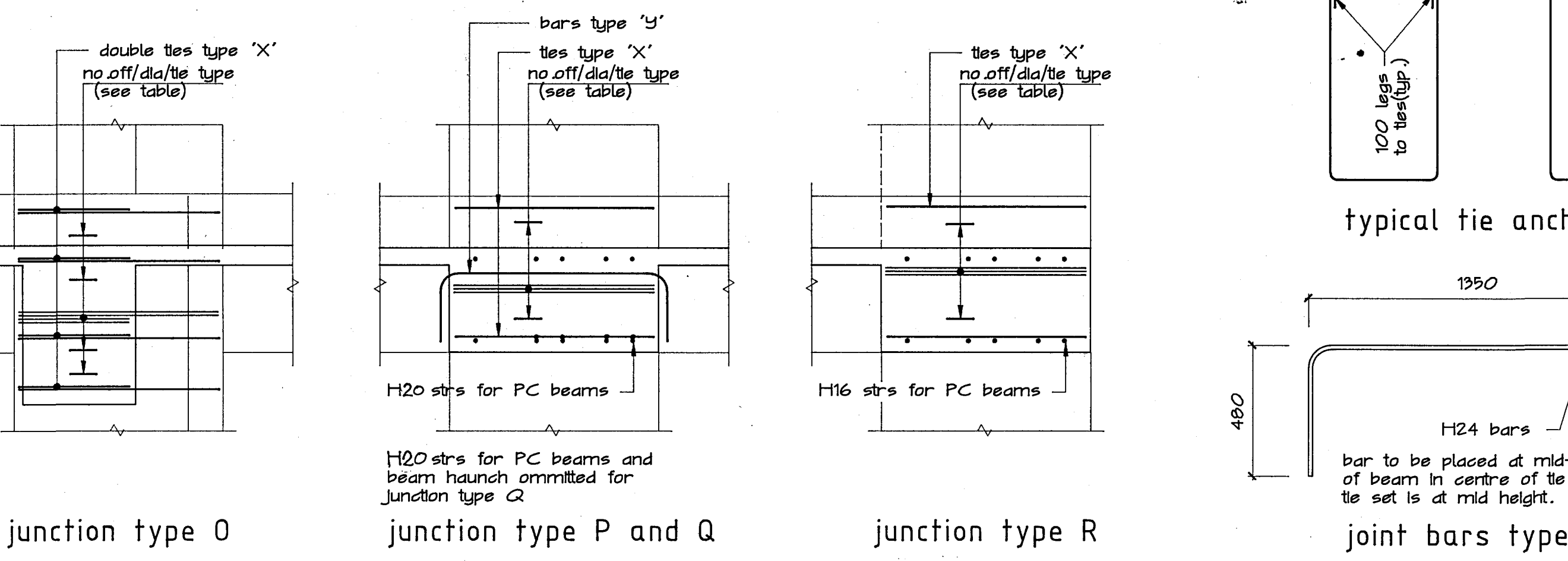
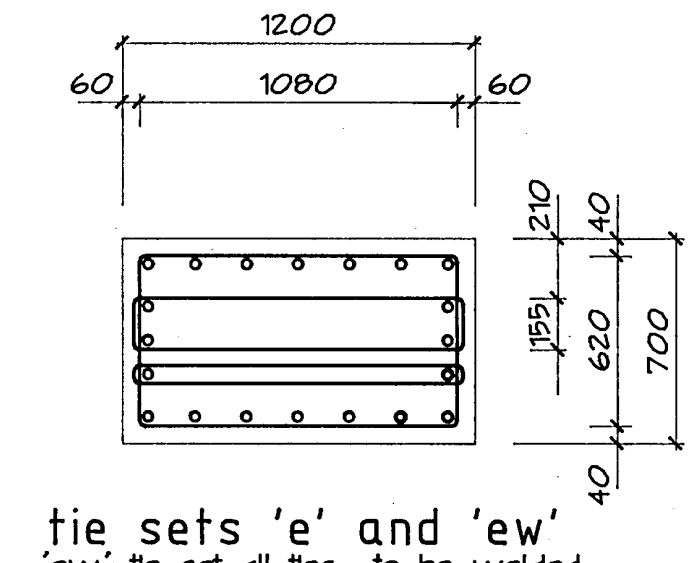
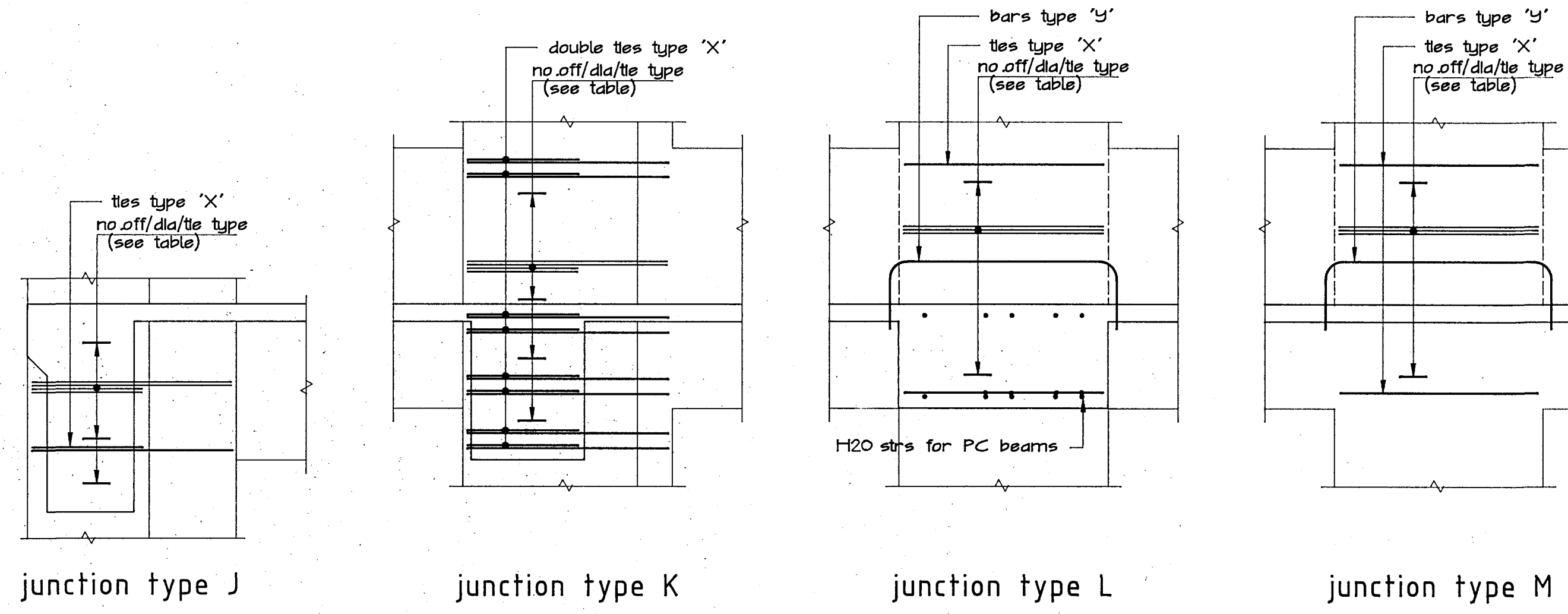
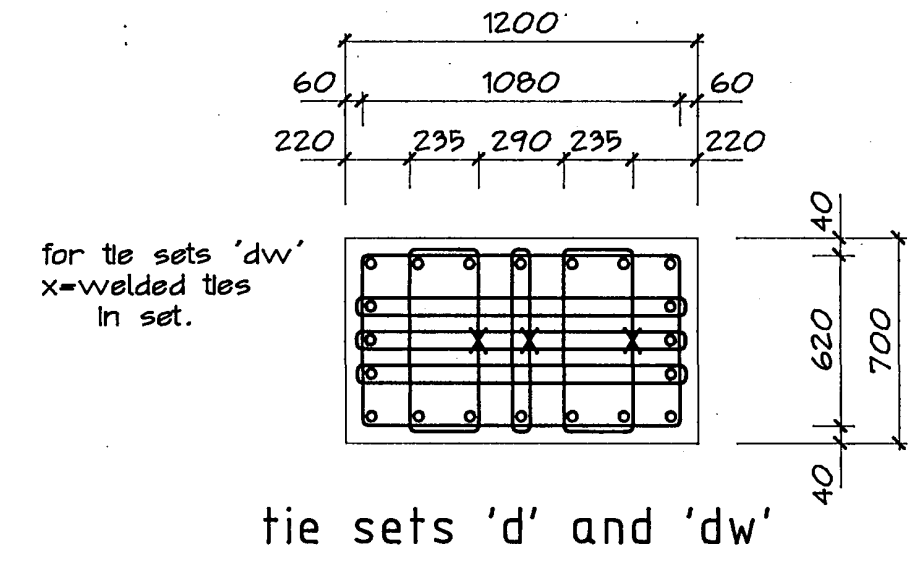
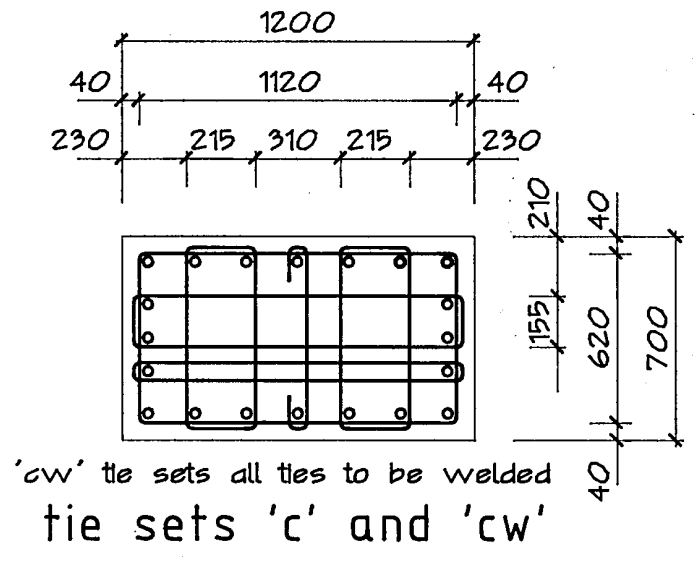
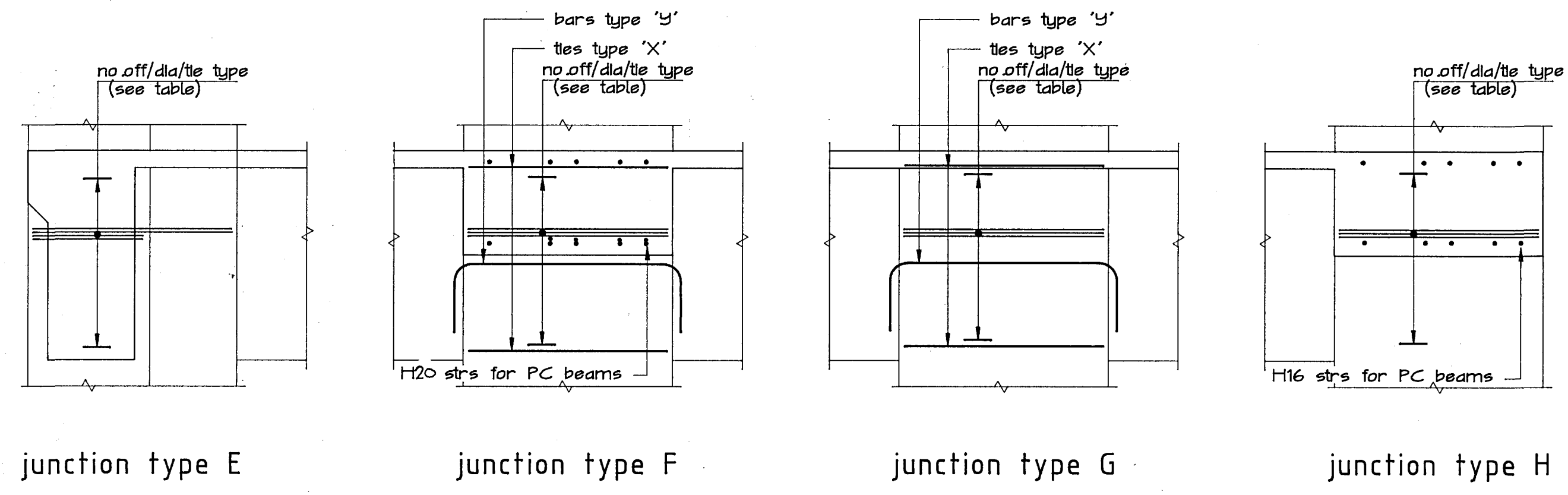
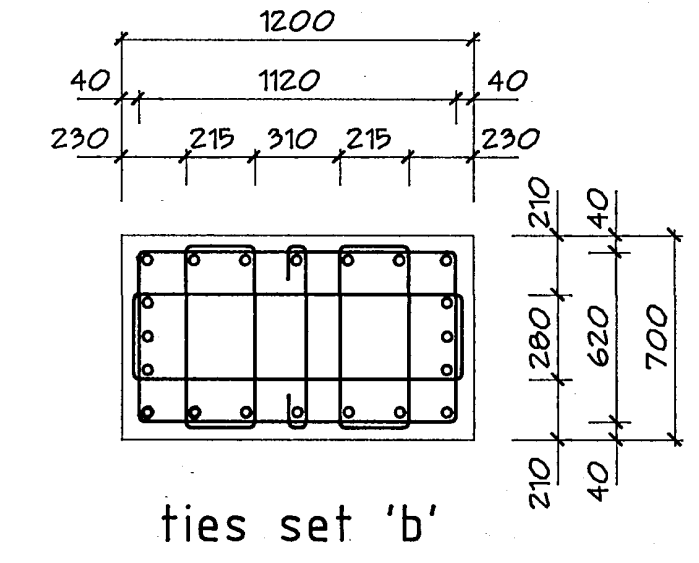
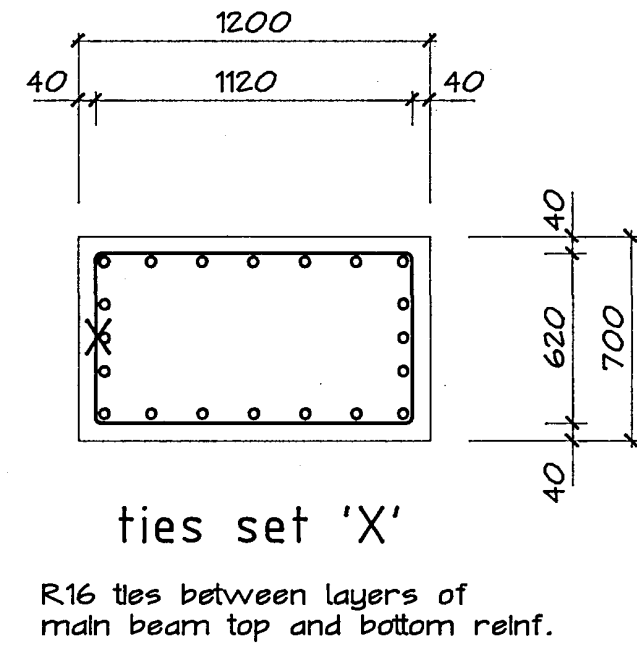
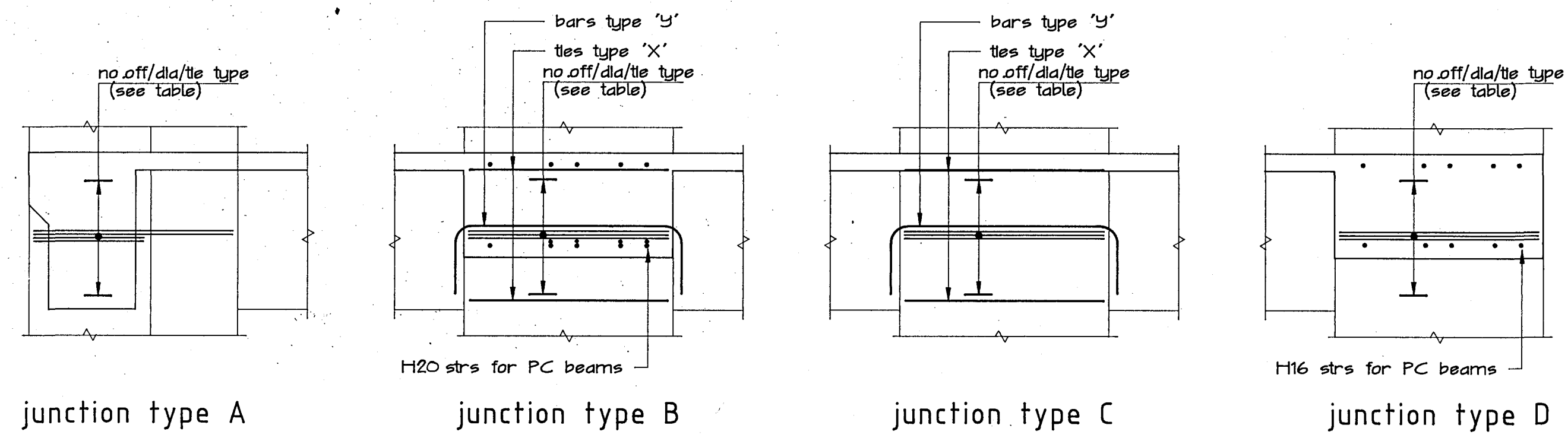
JOB NO: 2281 SHEET NO: S119 REV: 1

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

4	6	7	8	9	10	11	12	13	14	15	17	31	45
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Rev.	Date	Amendment
1	4/9/88	permit



NOTES 1: read in conjunction with sht.S117  
 2: all tie sets with suffix 'w' to be welded or part welded. For remainder see typical tie anchorage detail.

bmdrld.dwg

**HOLMES CONSULTING GROUP**  
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 Christchurch, Wellington, New Plymouth, Auckland

CHRISTCHURCH CITY COUNCIL LANDMARK TOWER  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

DRAWN: g.a.e SCALE: 1:25  
 APPROVED: R.A.P.

SHEET TITLE:  
 BEAM COLUMN JUNCTIONS  
 LEVELS 1 TO 20  
 REINFORCING

JOB NO: 2281 SHEET NO: S120 REV: 1





ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

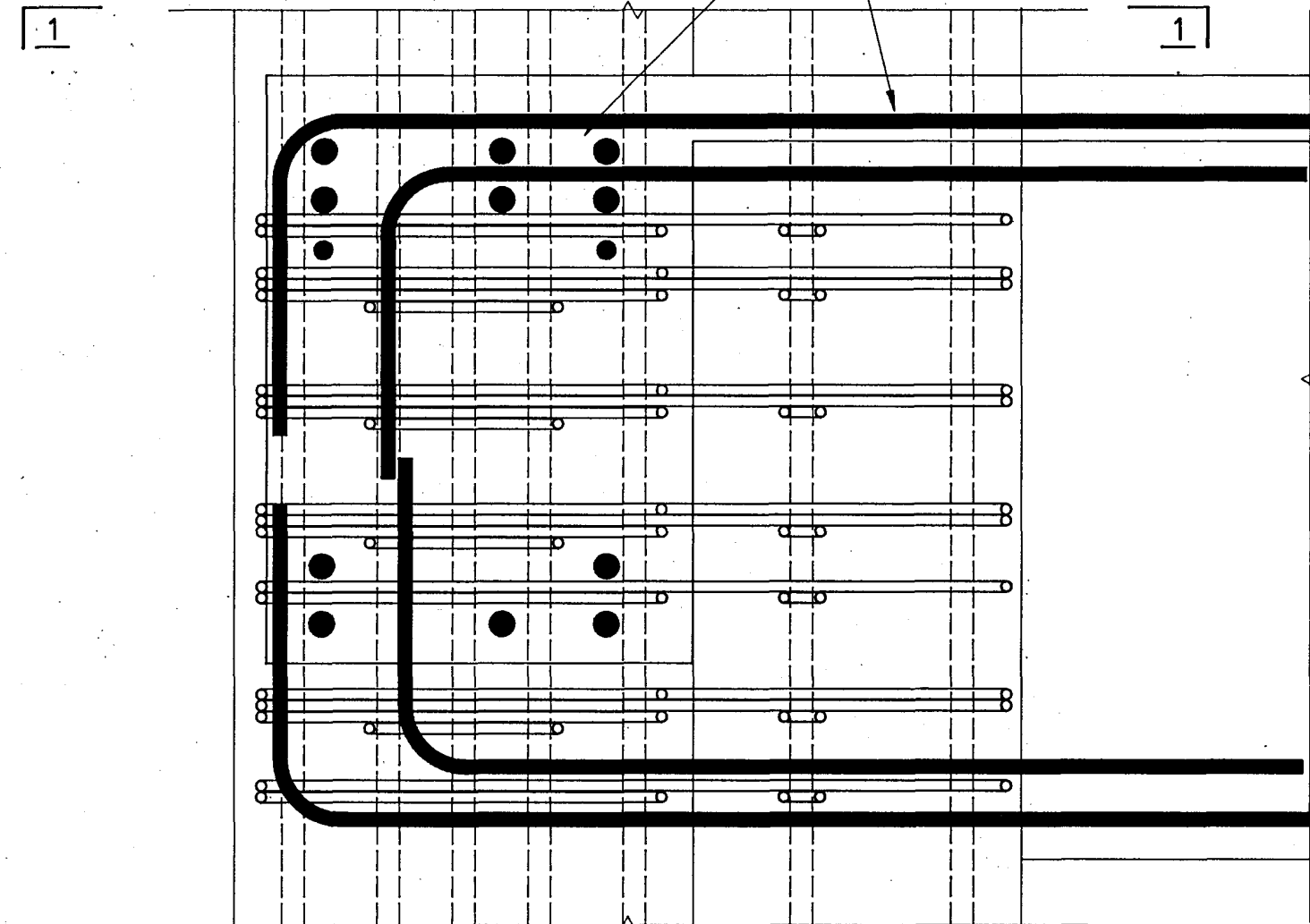
For package number

4	6	7	8	9	10	11	12	13	14	15	17	31	45
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Rev. Date Amendment

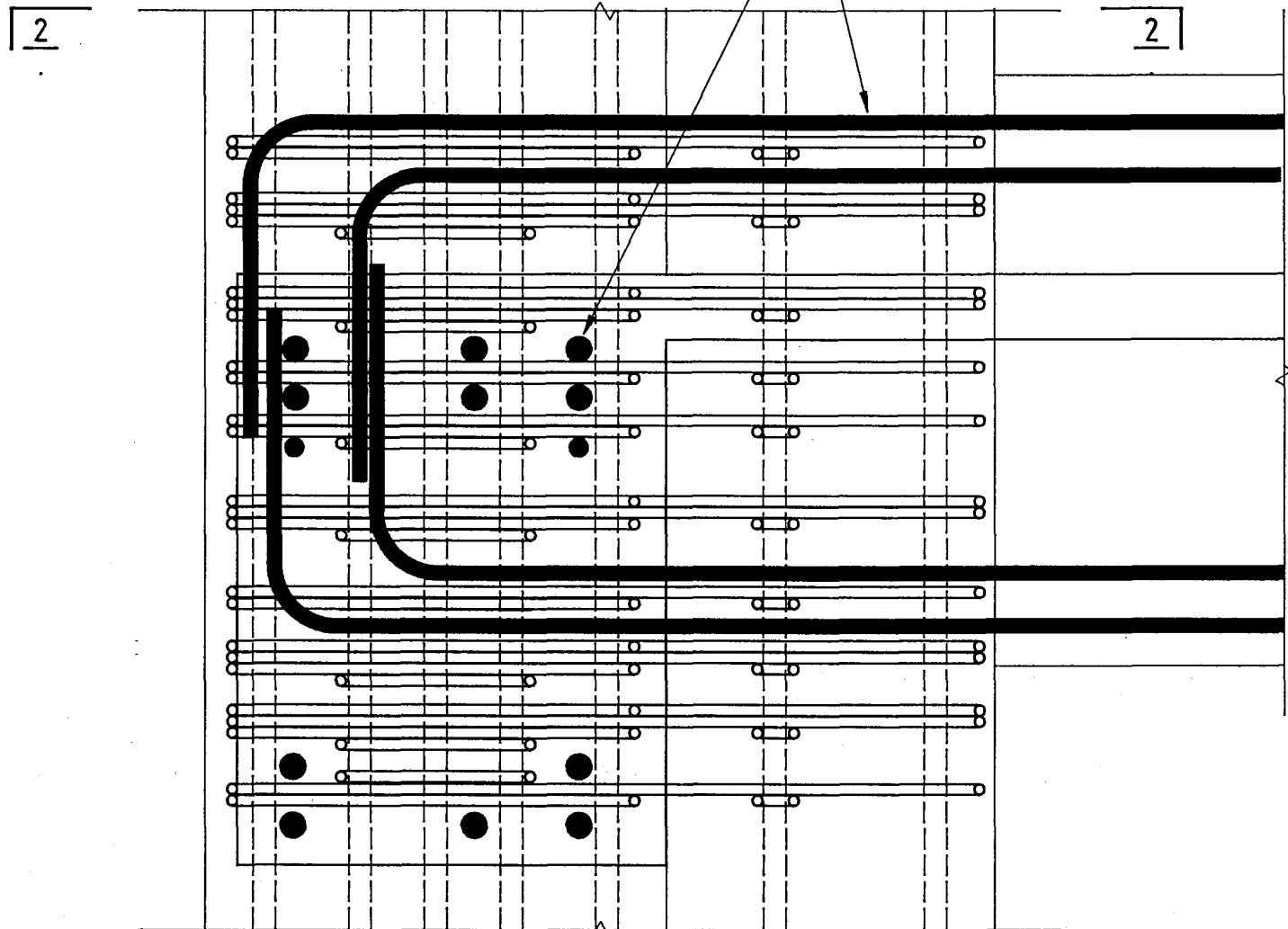
1	4-3-88	Permit
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See beam elevations and schedules for details of beam bars into junction



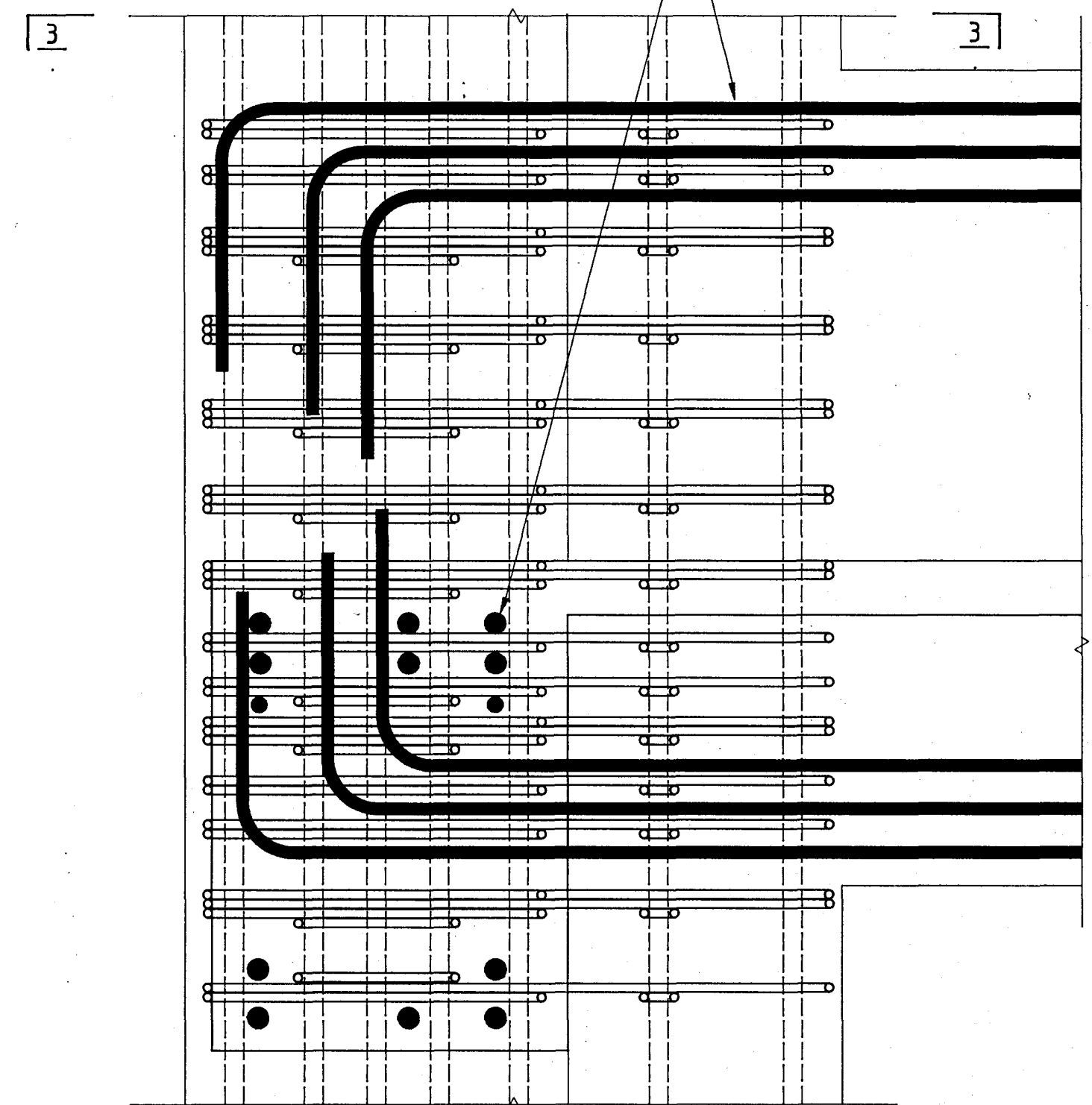
columns 12/B & 1/M

See beam elevations and schedules for details of beam bars into junction



columns 12/B & 1/M

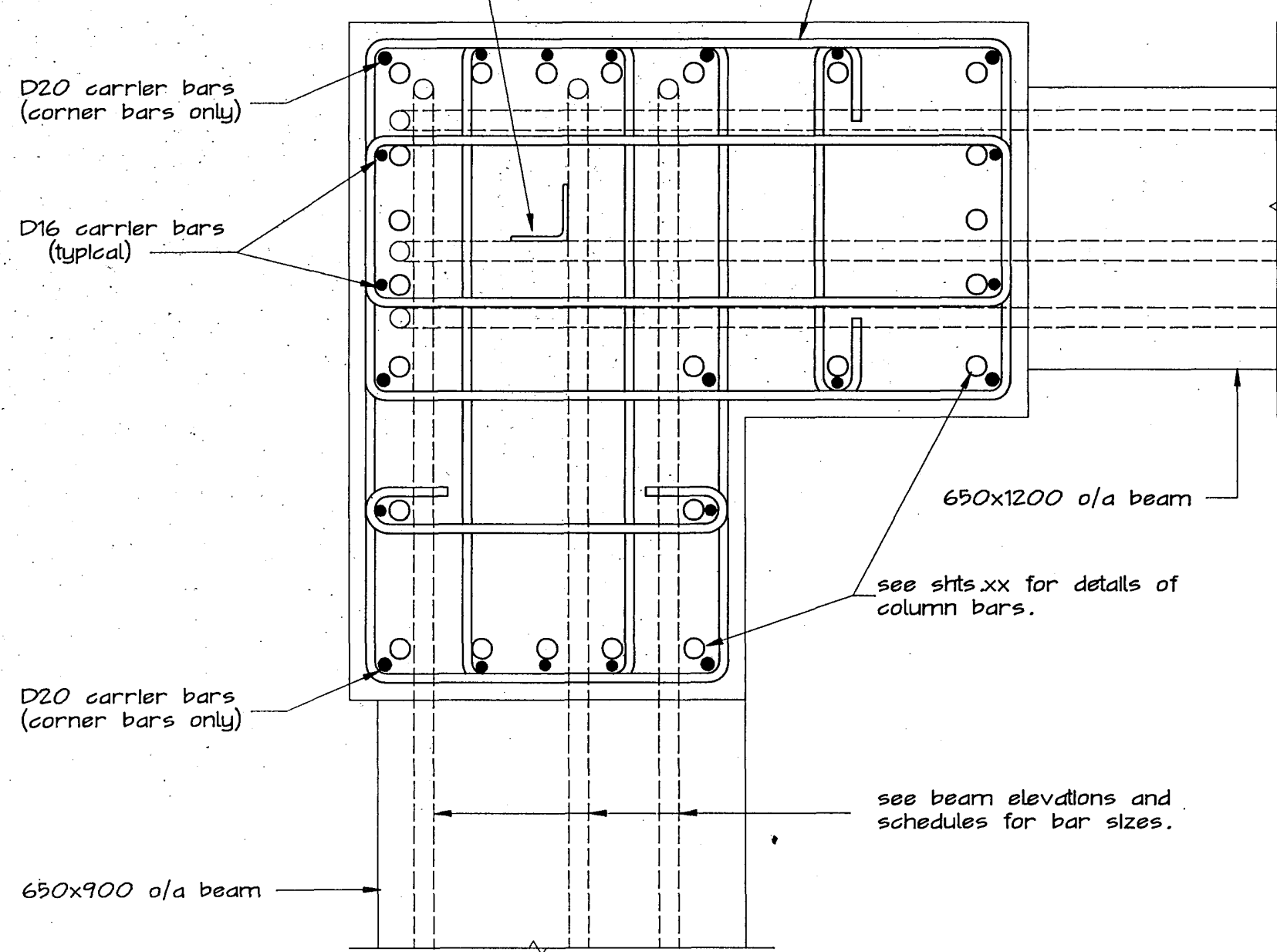
See beam elevations and schedules for details of beam bars into junction



columns 12/B & 1/M

102x102x8 angle stiffener. 850 or 1150 long to suit beam depths, welded to beam bars with 6 fw 90 long.

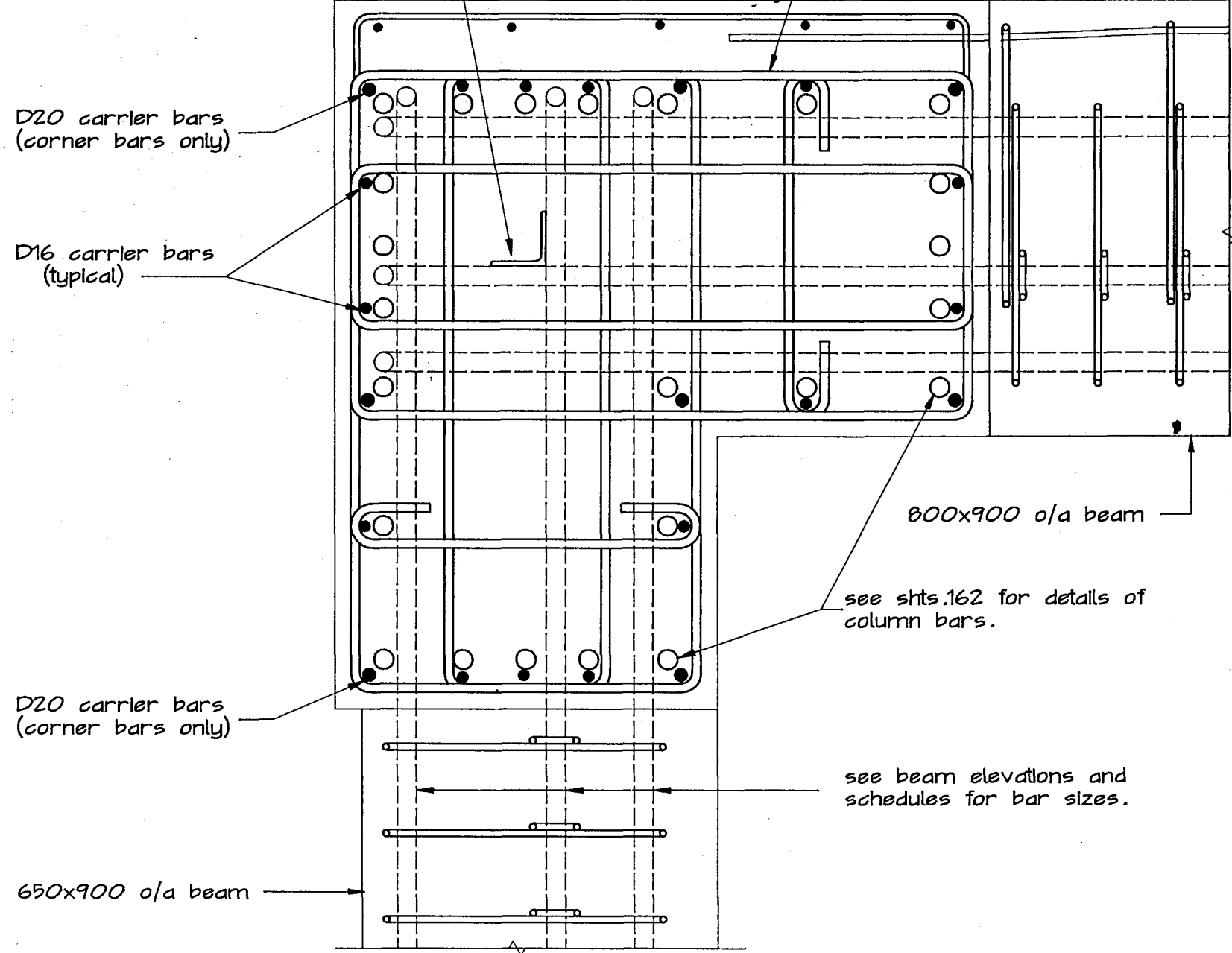
R16 tie sets with welded joints see sht 5xx for numbers off and dimensions.



1

102x102x8 angle stiffener. 1150 long to suit beam depths, welded to beam bars with 6 fw 90 long.

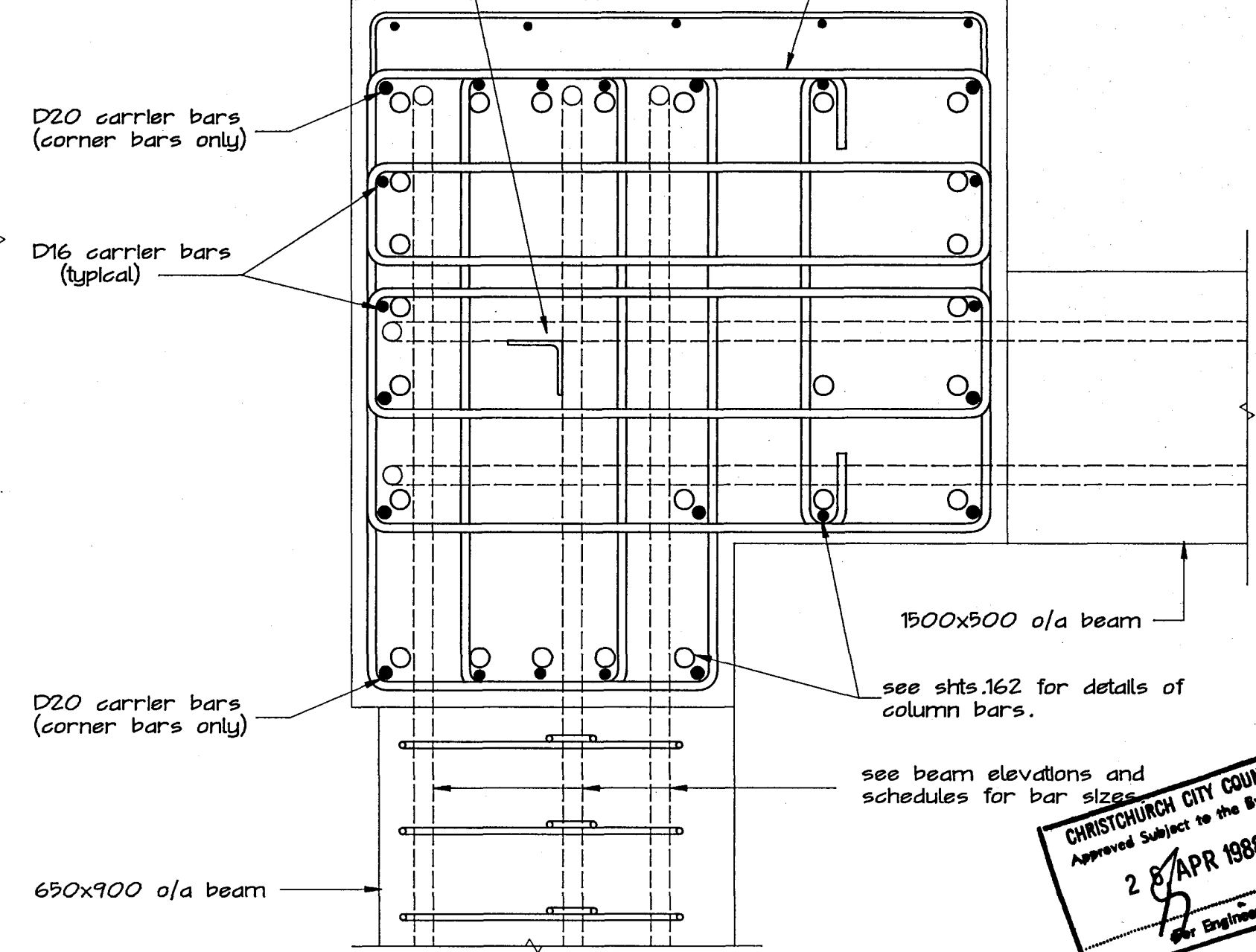
R16 tie sets with welded joints see sht 5xx for numbers off and dimensions.



2

102x102x8 angle stiffener. 1700 long to suit beam depths, welded to beam bars with 6 fw 90 long.

R16 tie sets with welded joints see sht 5121 for numbers off and dimensions.



3

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
28/4/1988  
Eng. Engineer

Warren & Mahoney Architects Ltd  
Christchurch, Wellington & Auckland

HOLMES CONSULTING GROUP  
STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

LANDMARK TOWER  
CHRISTCHURCH

DRAWN: SCALE: 1:10  
APPROVED: a.e. R.e.p.

SHEET TITLE:  
TYPICAL BEAM COLUMN JUNCTIONS  
LEVEL 1 to 4  
REINFORCING

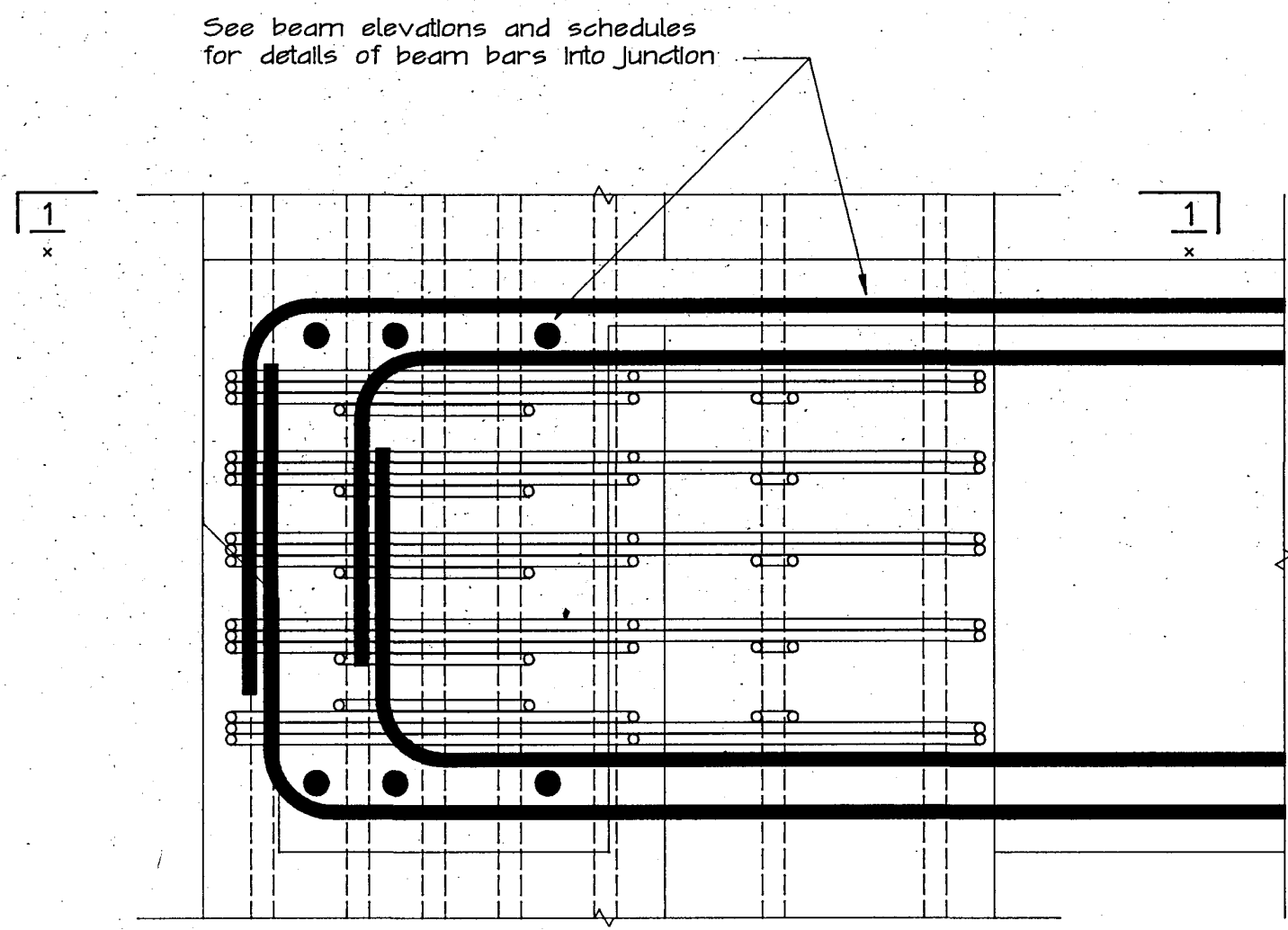
JOB NO. SHEET NO. REV.  
2281 S122 1

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

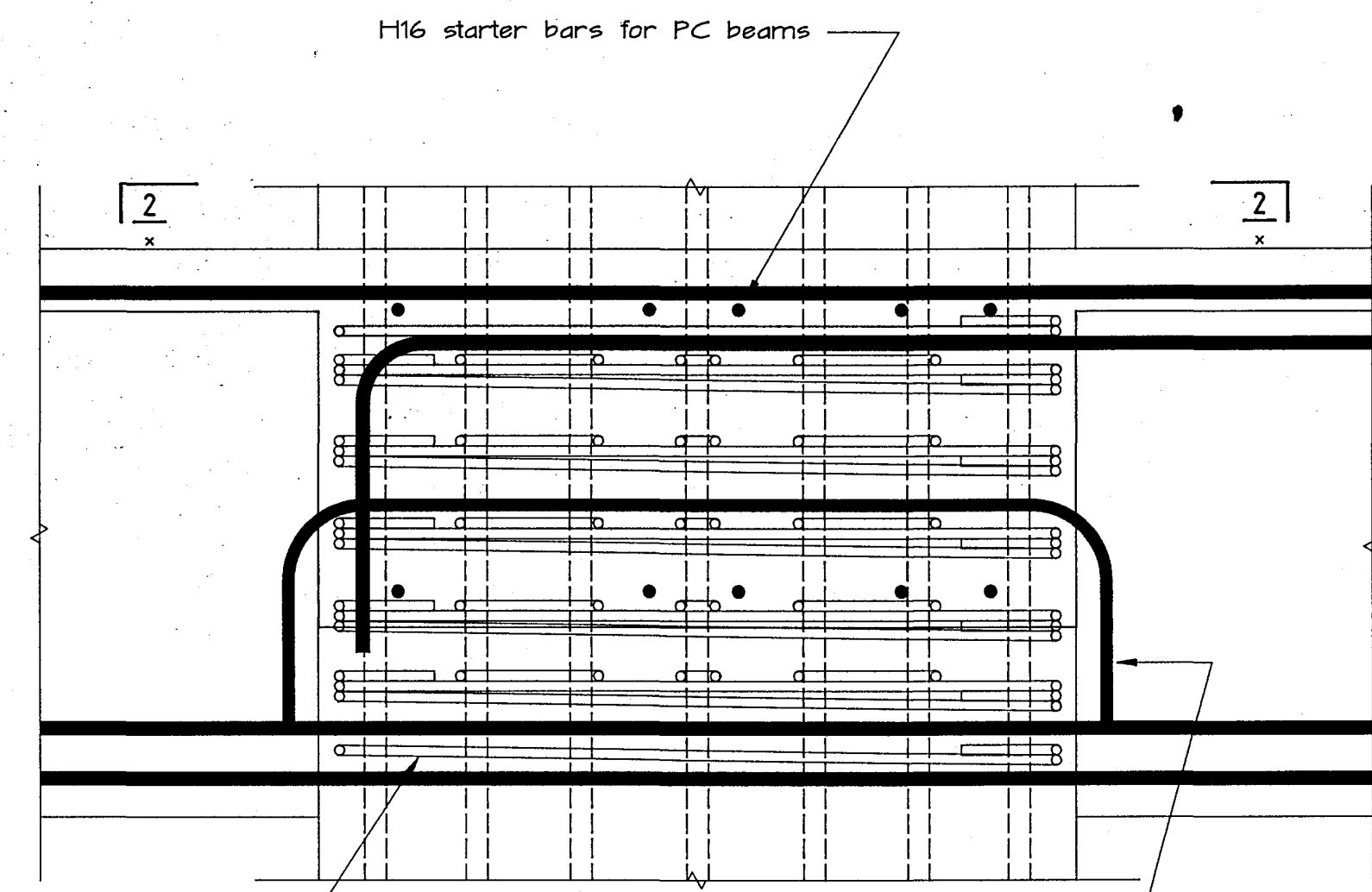
For package number

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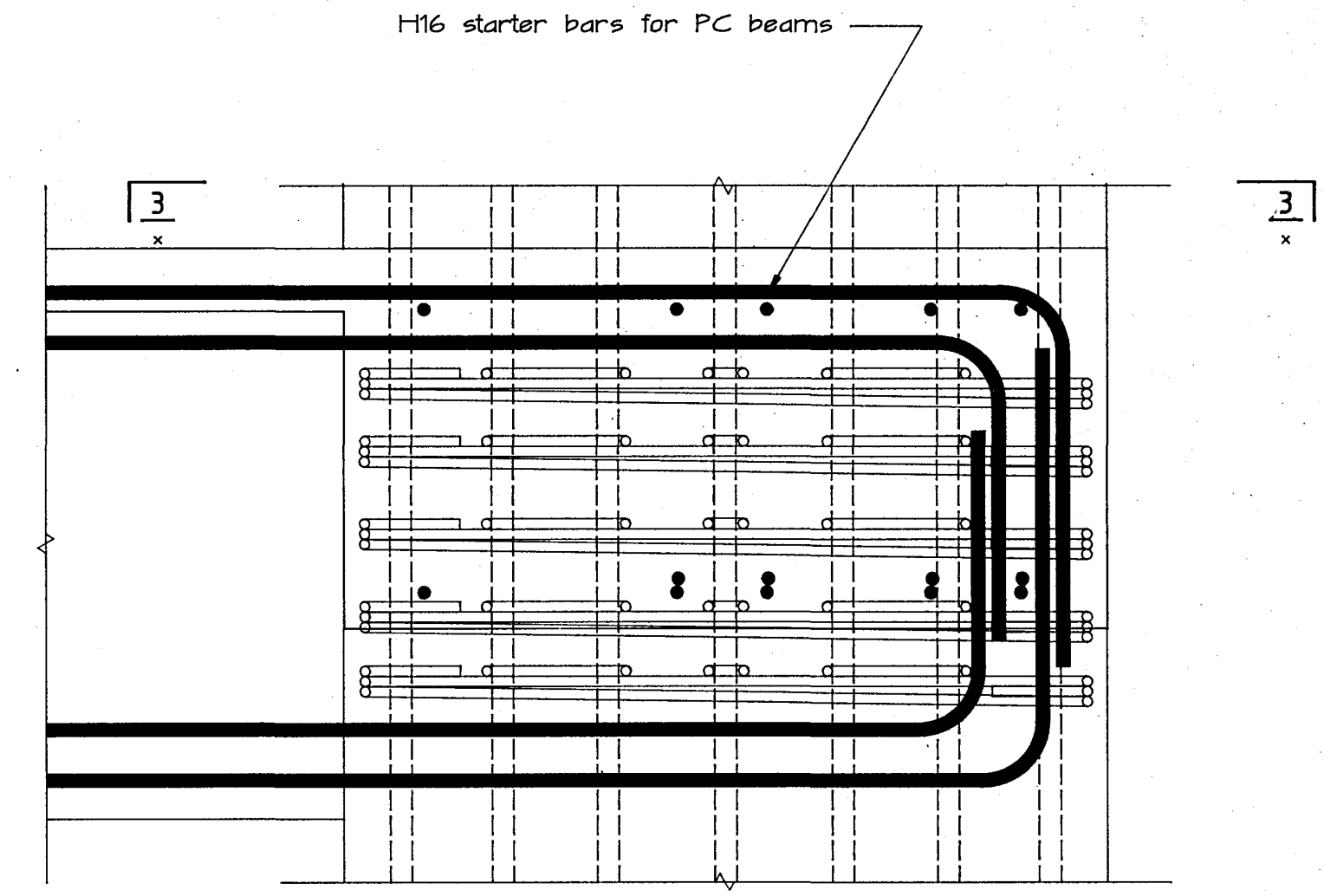
Rev.	Date	Amendment
1	4/3/00	permit



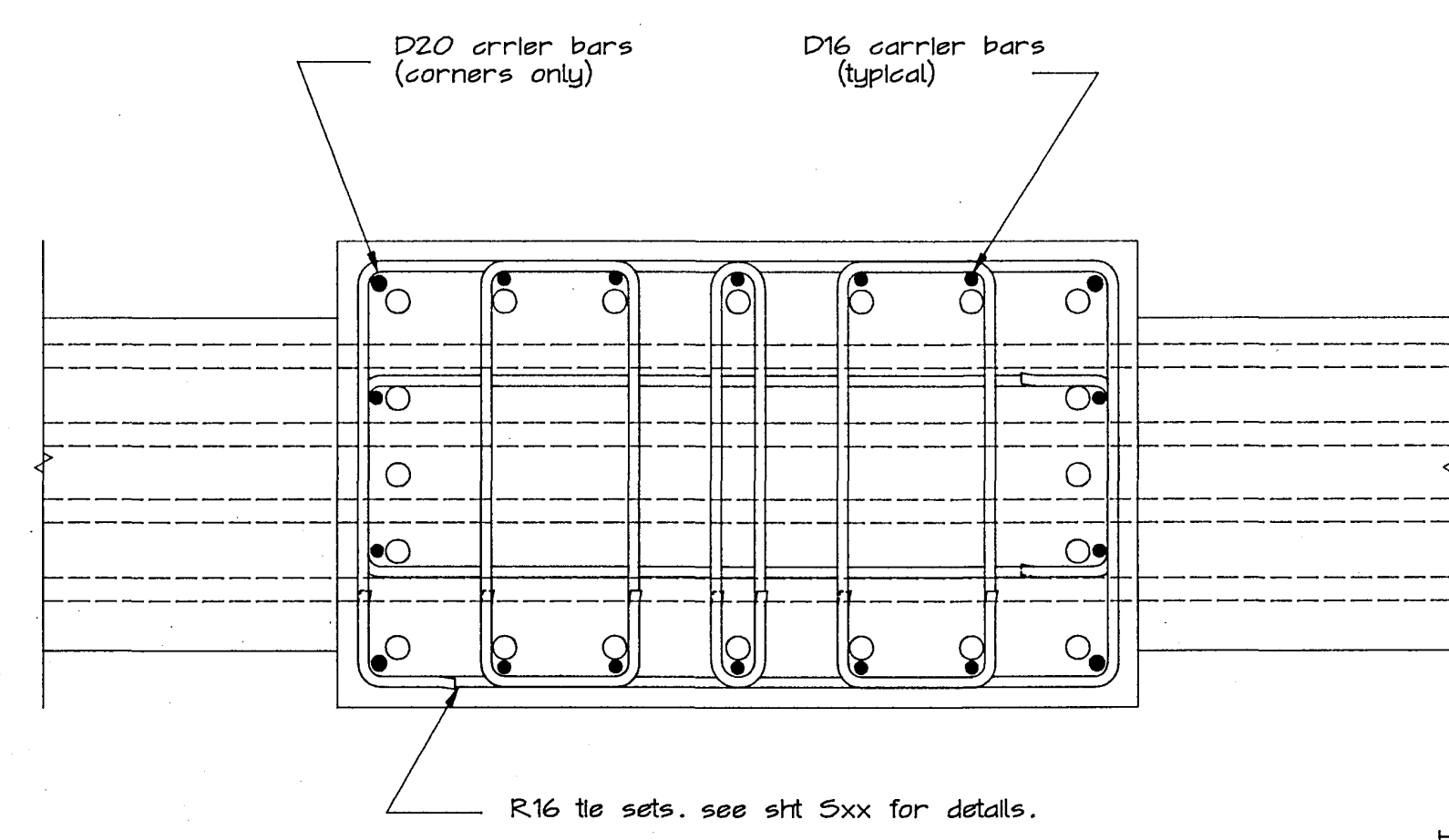
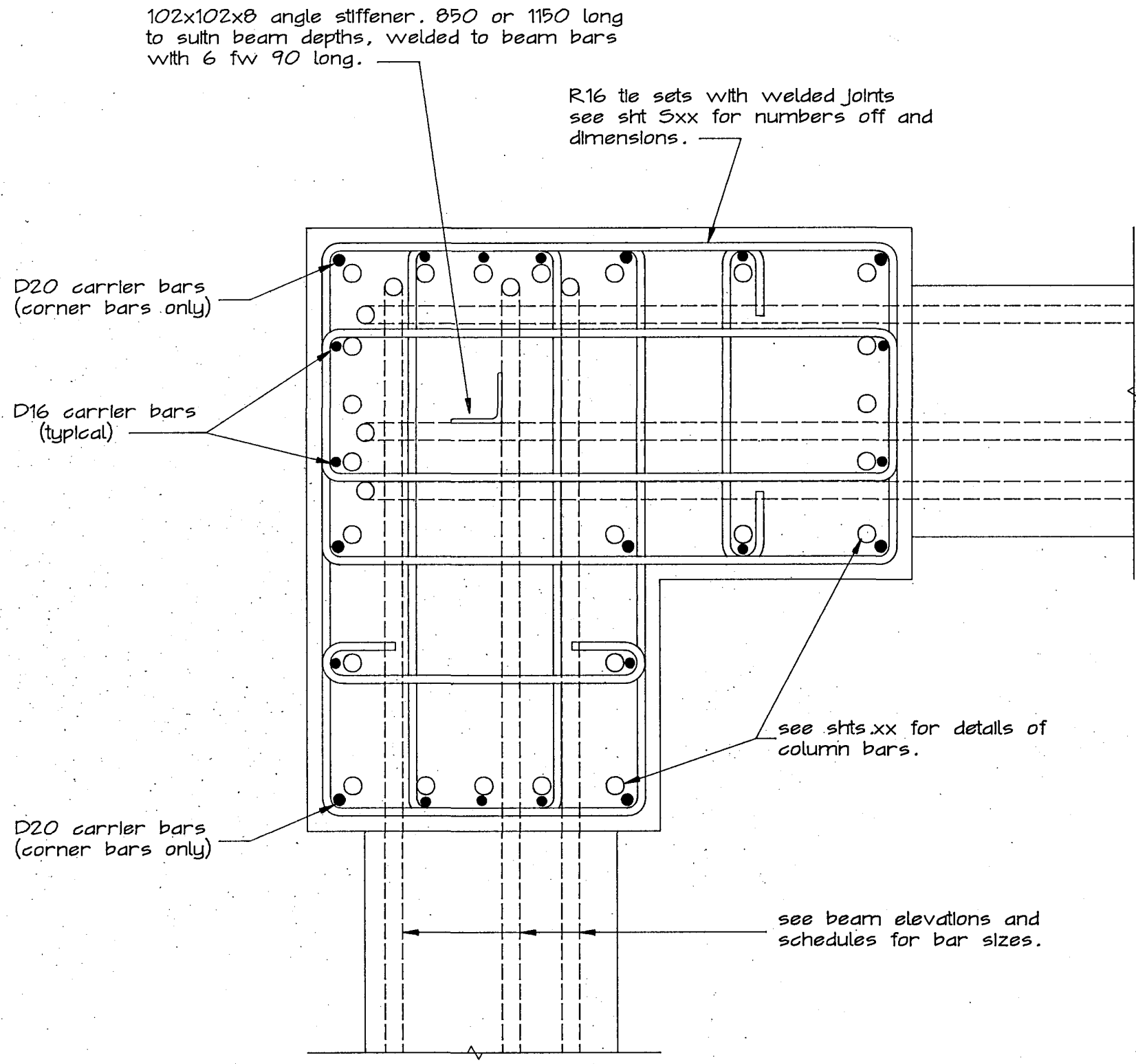
columns 12/B & 1/M



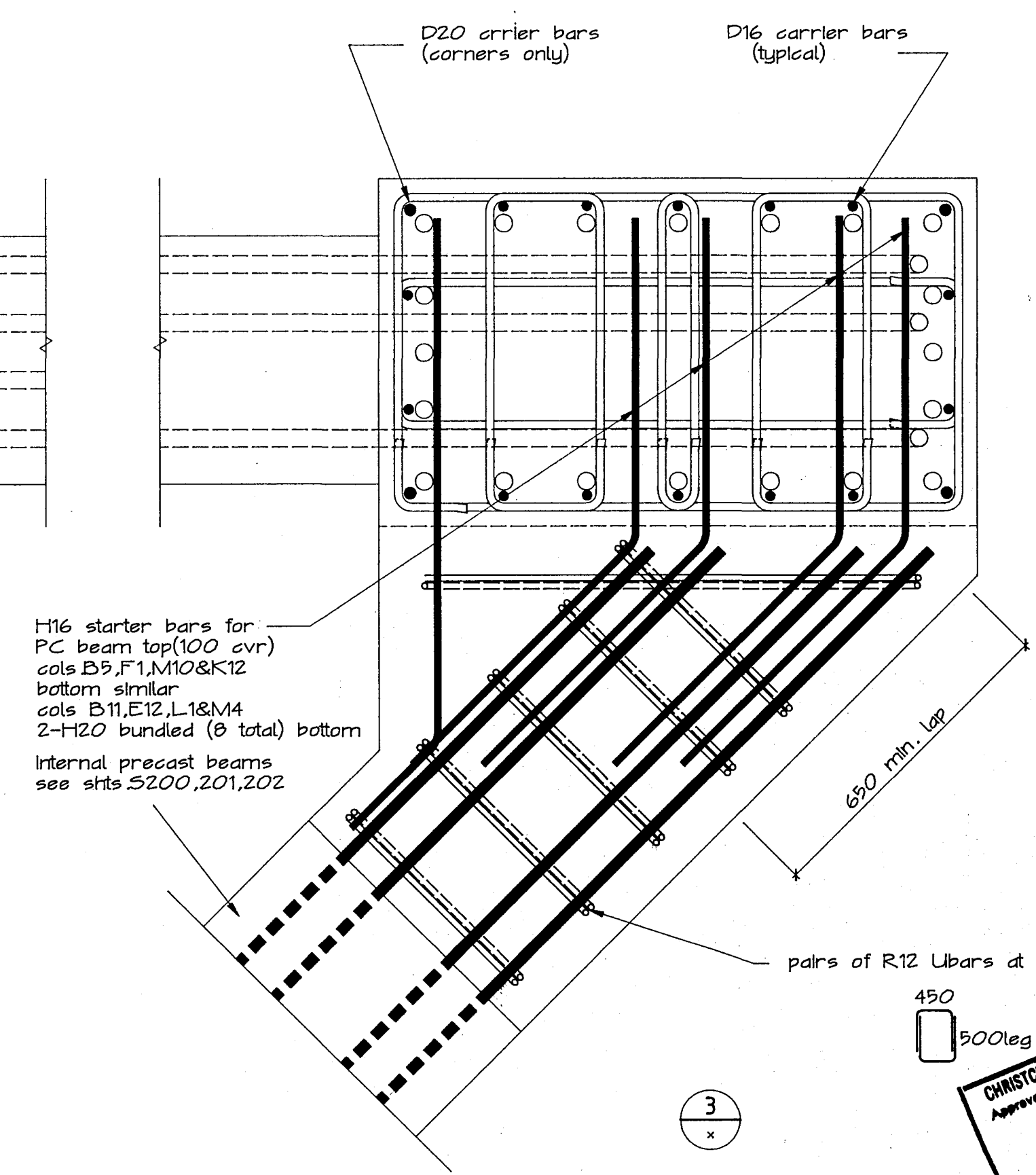
columns 9/B, 1/J, 6/M & 12/G  
11/B, 1/L, 4/M & 12/E similar  
(with connection to PC beams)



columns 5/B, 1/F, 10/M & 12/B



NOTES: (1) see sheets xx, yy, zz for details of tie dia spacing and numbers off.  
(2) carrier bars to extend min. 50 past top and bottom tie sets.



CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
For Engineer

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STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

LANDMARK TOWER  
CHRISTCHURCH

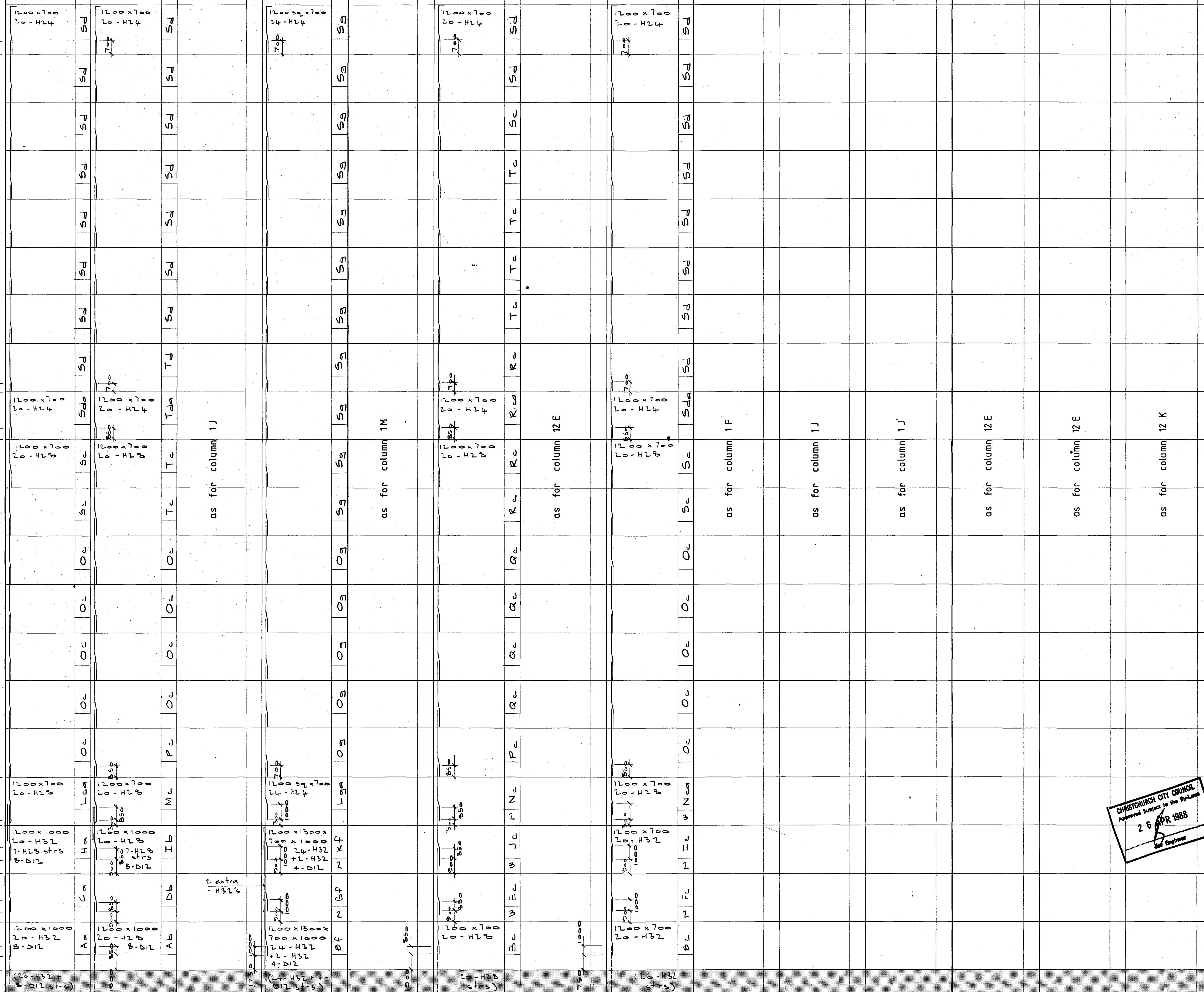
DRAWN: g.a.e SCALE: 1:10  
APPROVED:

SHEET TITLE:  
TYPICAL BEAM COLUMN JUNCTIONS  
LEVEL 10 to 20  
REINFORCING

JOB NO: 2281 SHEET NO: S123 REV: 1

	col 1F	col 1J	col 1L	col 1M	col 12 B	col 12 E	col 12 G	col 12 / K	col B5	col B9	col B11	col M4	col M6	col M10
18-19	PS	PS	PS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
17	PS	PS	PS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
16	PS	PS	PS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
15	PS	PS	PS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
14	PS	PS	PS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
13	PS	PS	PS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
12	PS	PS	PS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
11	PS	PS	PS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
10	PS	PS	PS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
9	PS	PS	PS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
8	PS	PS	PS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
7	PS	PS	PS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
6	PS	PS	PS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
5	PS	PS	PS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
4	PS	PS	PS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
3	PS	PS	PS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
2	PS	PS	PS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
1	PS	PS	PS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS

L.M.R r188-390  
 20 r184-890  
 19 r181-390  
 18 r177-890  
 17 r174-390  
 16 r170-890  
 15 r167-390  
 14 r163-890  
 13 r160-390  
 12 r156-890  
 11 r153-390  
 10 r149-890  
 9 r146-390  
 8 r142-890  
 7 r139-390  
 6 r135-890  
 5 r132-390  
 4 r128-890  
 3 r125-840  
 2 r122-840  
 1 r118-840  
 Top of raft r113-700



see foundation drawings for starter details

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

4	6	7	8	9	10	11	12	13	14	15	17	31	45
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Rev	Date	Amendments
1	4.3.88	PERMIT

**Warren & Mahoney Architects Ltd**  
 Christchurch Wellington & Auckland

**HOLMES CONSULTING GROUP**  
 STRUCTURAL AND CIVIL ENGINEERS  
 Christchurch, Wellington, New Plymouth, Auckland

LANDMARK TOWER  
 CHRISTCHURCH

CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 S. Engineer

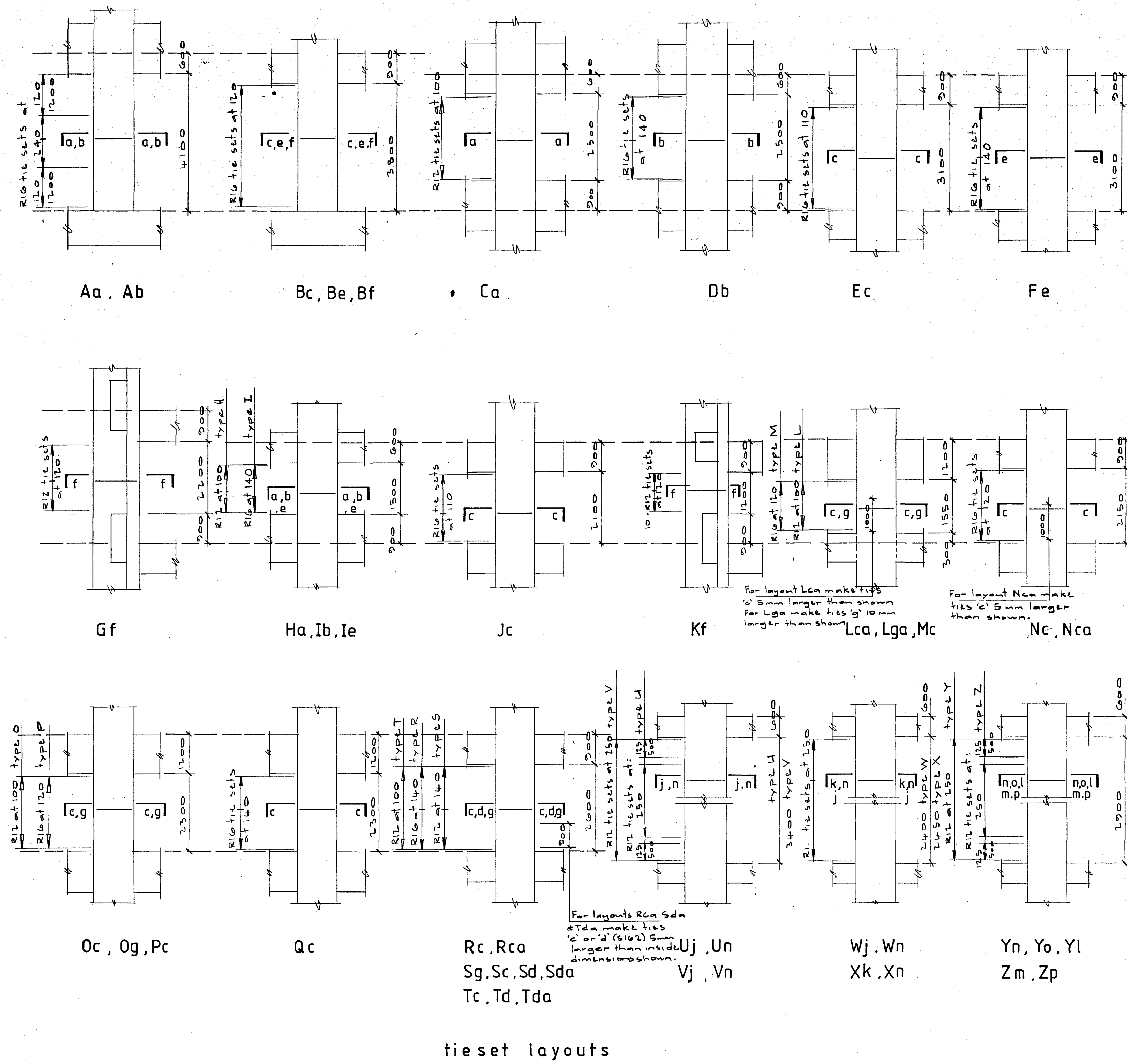
DRAWN: G.K.R SCALE: N.T.S  
 APPROVED: R.A.P.

SHEET TITLE:  
 INSITU COLUMN SCHEDULE - TOWER

JOB NO: 2281 SHEET NO: S130 REV: 1

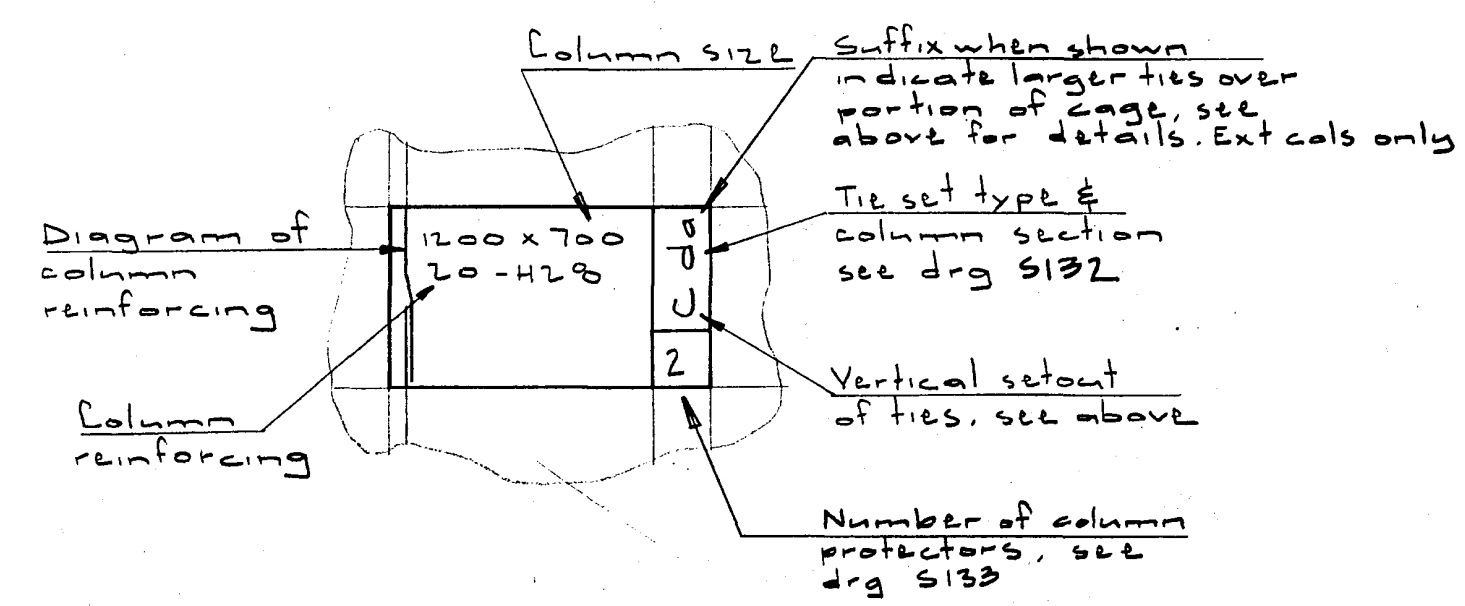
	col G4	col E6	col 11G/J	col L9/6
LMR rl 88-390				
20 rl 84-890				
19 rl 81-390	12-410 500		12-410 500	Zp
18 rl 77-890				Zp
17 rl 74-390				Zp
16 rl 70-890				Zp
15 rl 67-390				Zp
14 rl 63-890				Zp
13 rl 60-390				Zp
12 rl 56-890	600 12-410 750 16-432 1000		600 12-410 750 16-432 1000	Zp
11 rl 53-390				Yo
10 rl 49-890				Yo
9 rl 46-390		as for column G4		Yo
8 rl 42-890				Yo
7 rl 39-390				Yo
6 rl 35-890				Yo
5 rl 32-390				Yo
4 rl 28-890	750 x 750 16-432			Yo
3 rl 25-840				Xn
2 rl 22-840	1200 x 750 16-432 + 4-b12			Xn
1 rl 18-840	1200 x 600 20-432			Wn
Top of raft rl 13-700	1200 x 600 20-432		1500 x 500 20-432	Un

see foundation drawings for starter details



notes:

- For external column schedule see drawing S130
- For column sections and tie details see above and drawing S132
- Unless shown otherwise on schedules, bar lap lengths are as follows:
  - Interior columns (G4 E6 11G/J, L9/6)
    - H32 = 1000
    - H16 = 500
  - Exterior columns (Lines 1, 2, B, M)
    - H32 = 1000
    - H28 = 850
    - H24 = 700
- Bar lengths for bars are as follows:
  - H32 = 400
  - H28 = 350
  - H24 = 300
  - H16 = 200



key to schedules

on drg S130 and this sheet

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

4	6	7	8	9	10	11	12	13	14	15	17	31	45
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Rev Date Amendments

1	4.3.88	PERMIT
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Warren & Mahoney Architects Ltd  
Christchurch Wellington & Auckland

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STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

LANDMARK TOWER  
CHRISTCHURCH

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
Engineer

DRAWN: G.K.R SCALE: 1:100  
APPROVED: R.A.P.

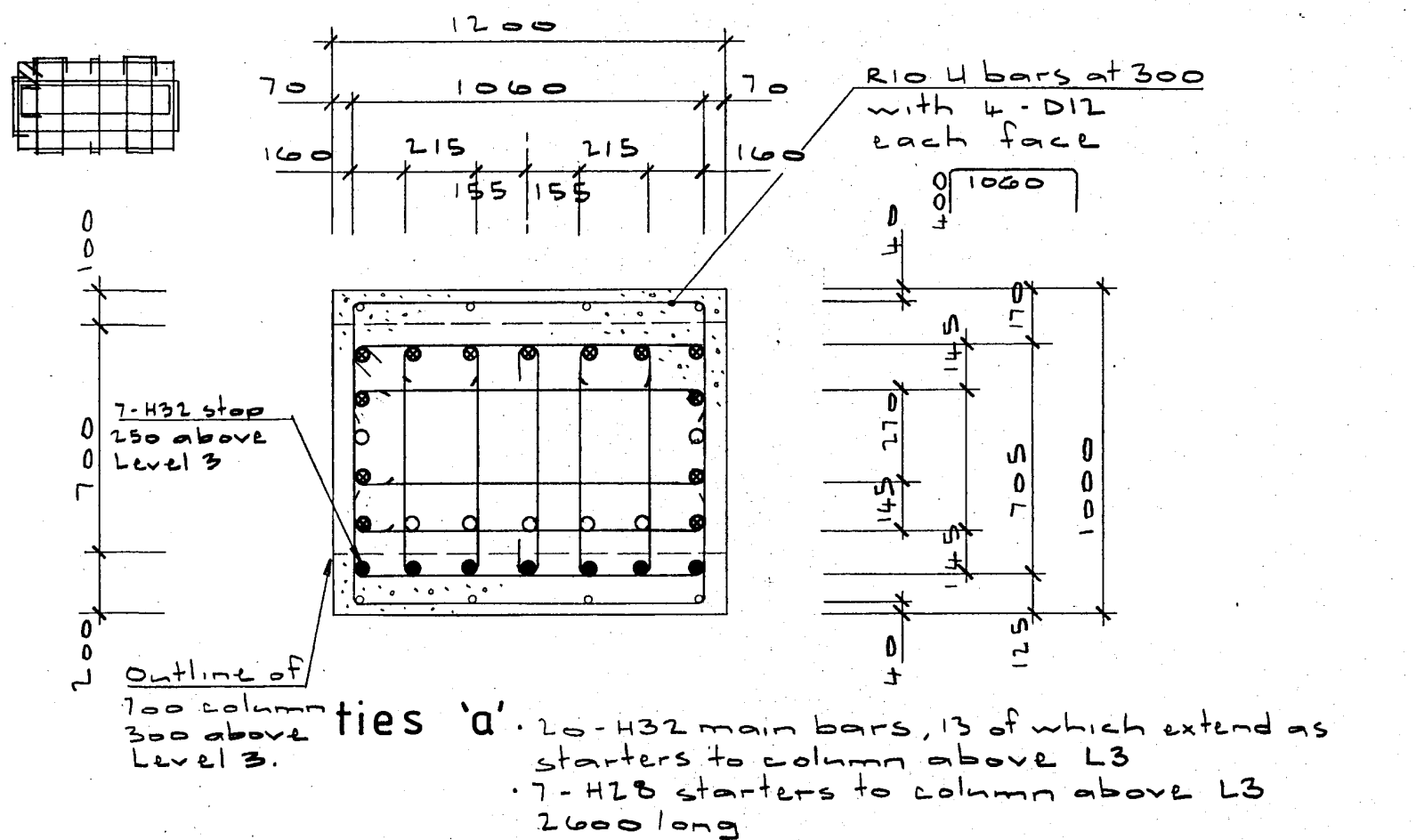
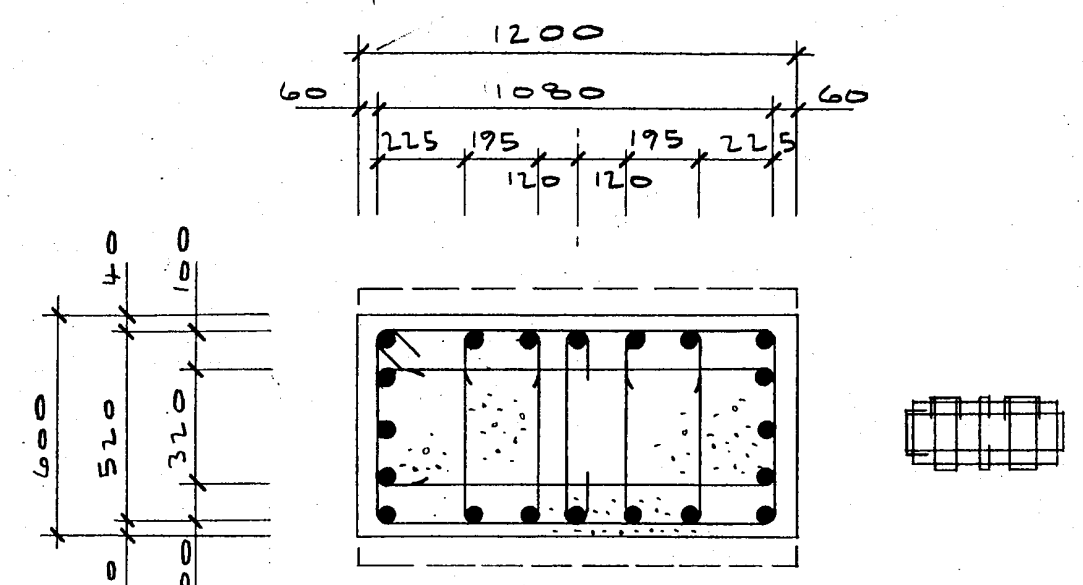
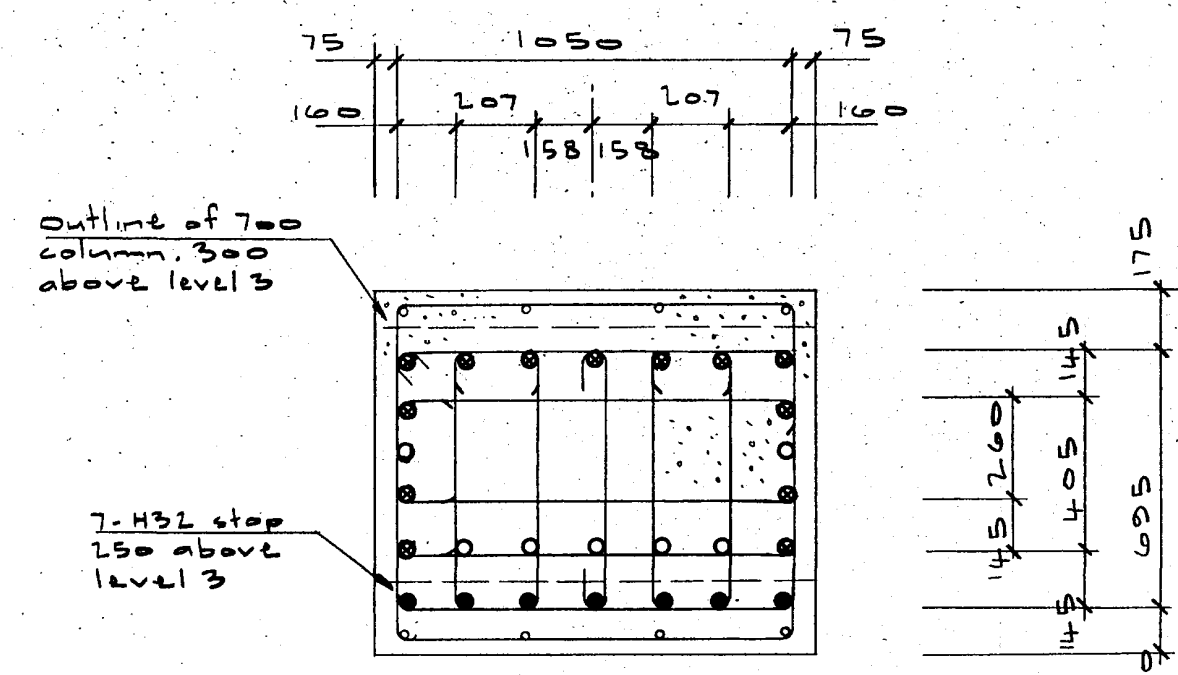
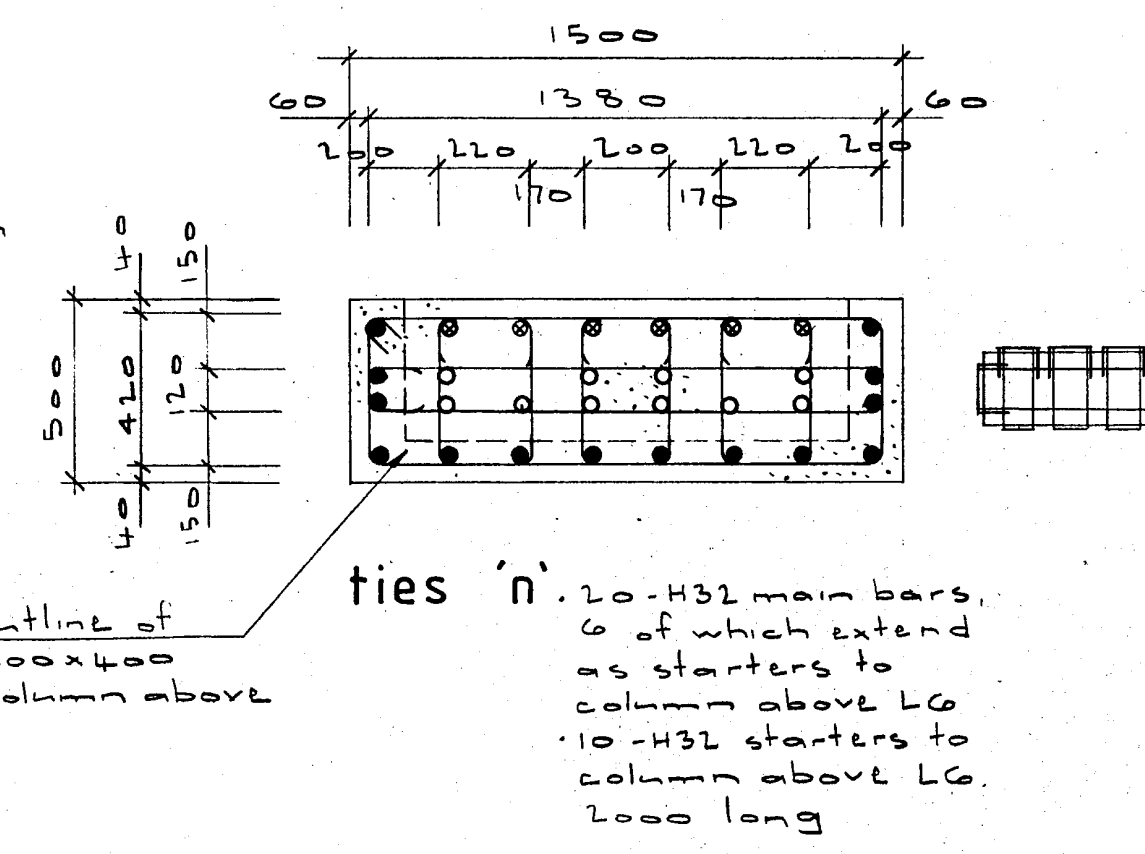
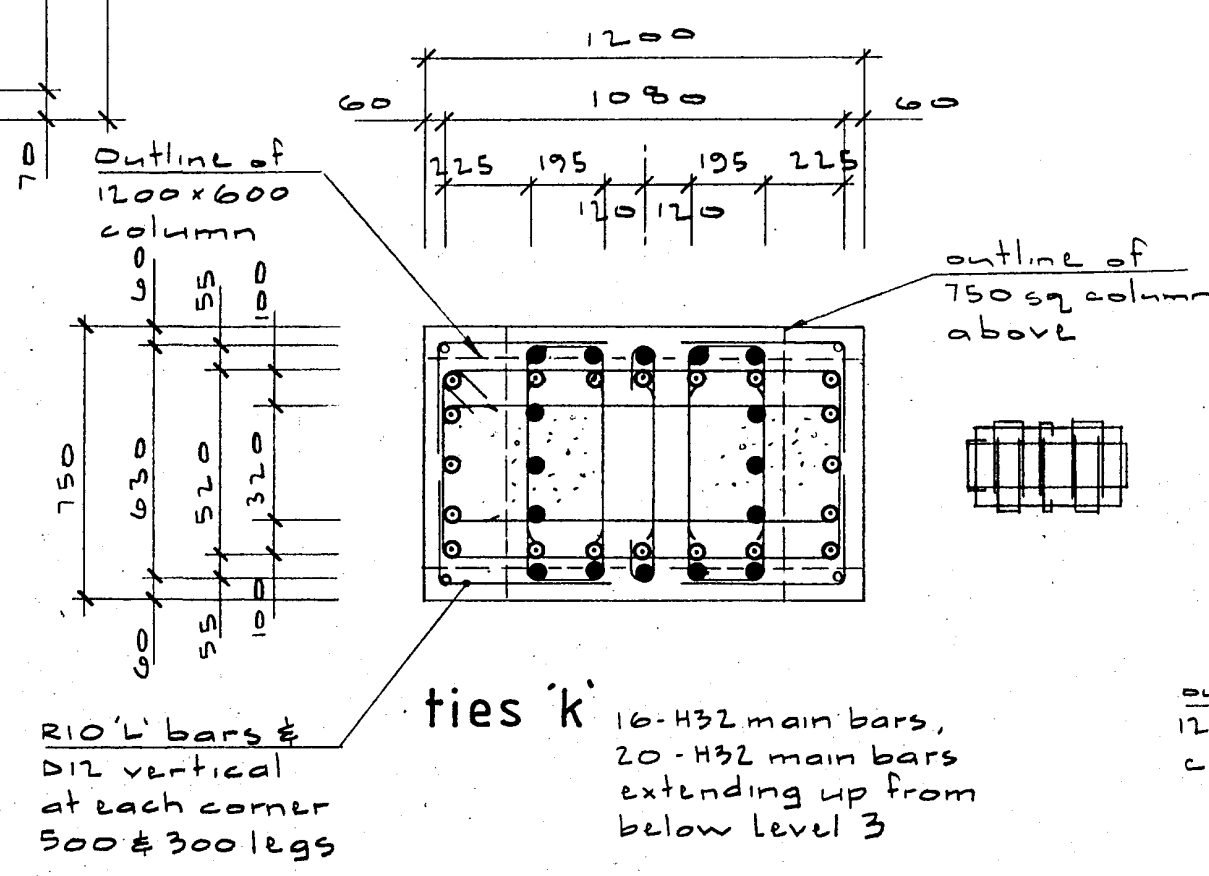
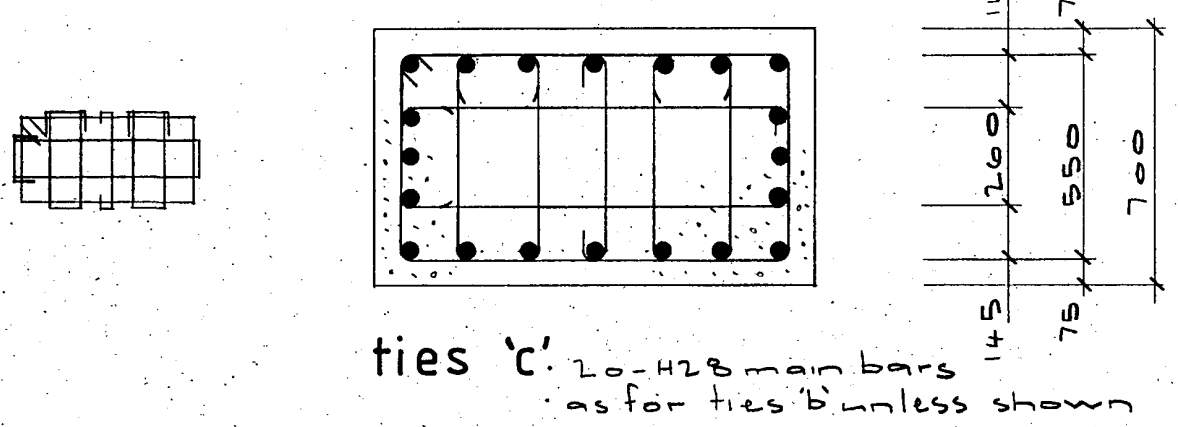
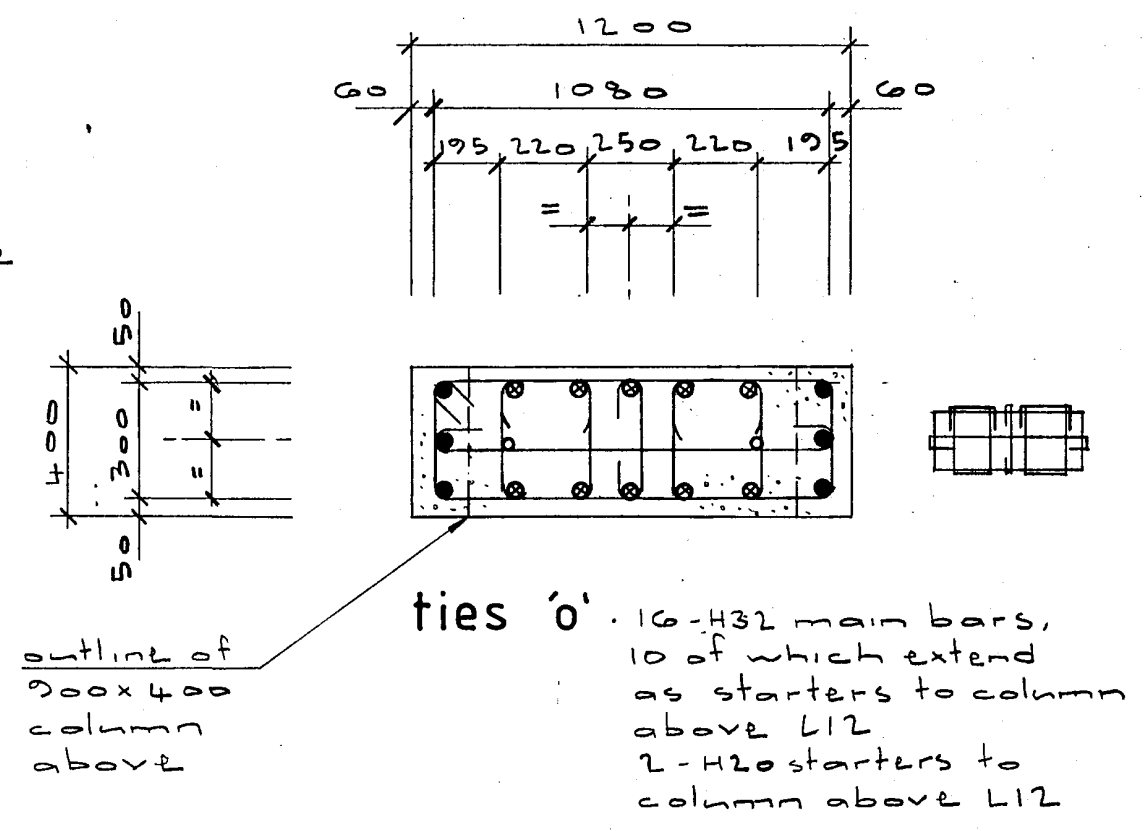
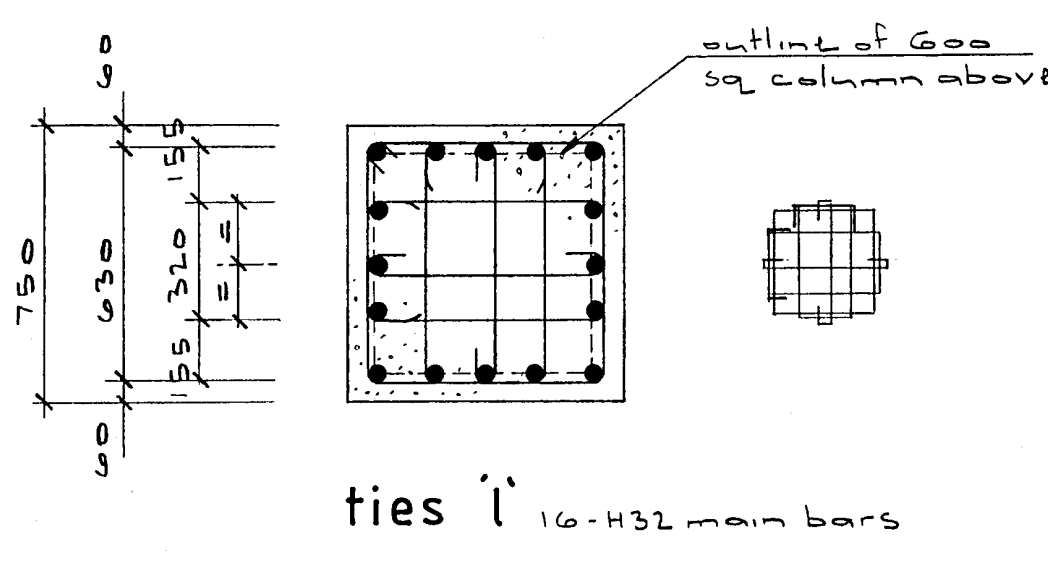
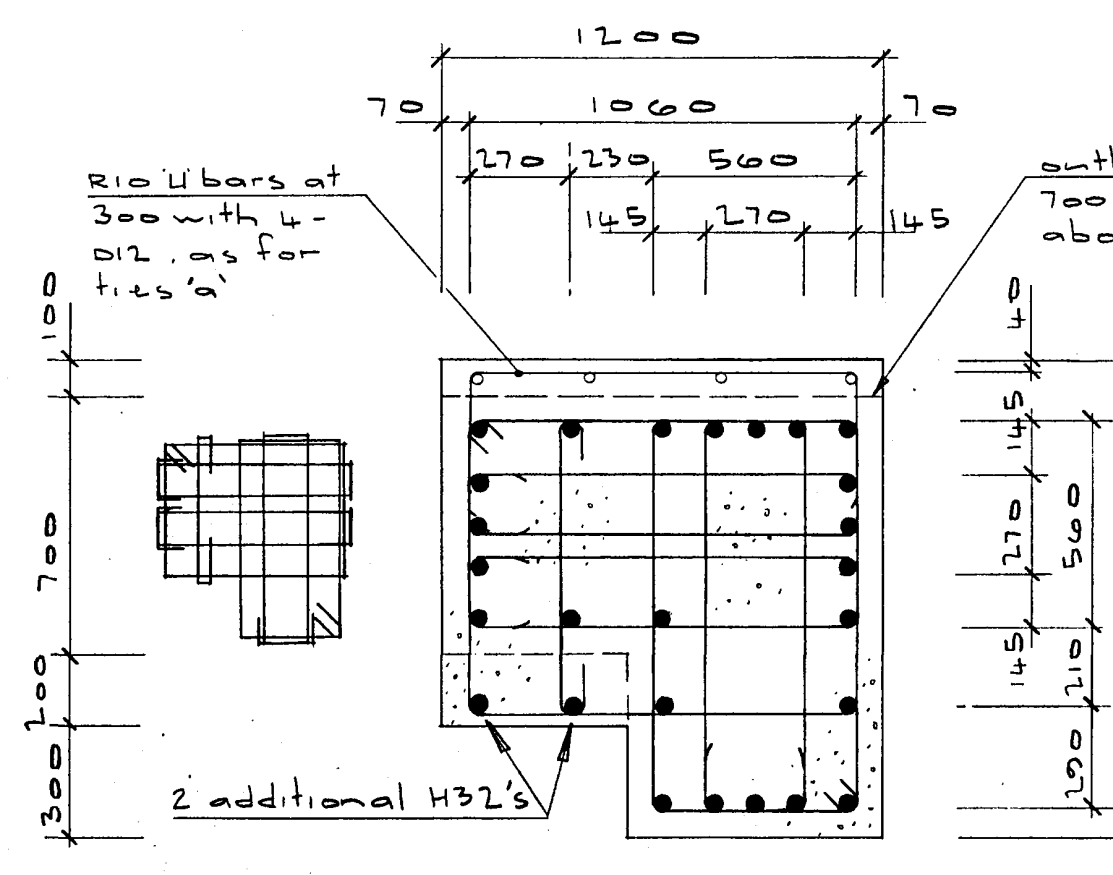
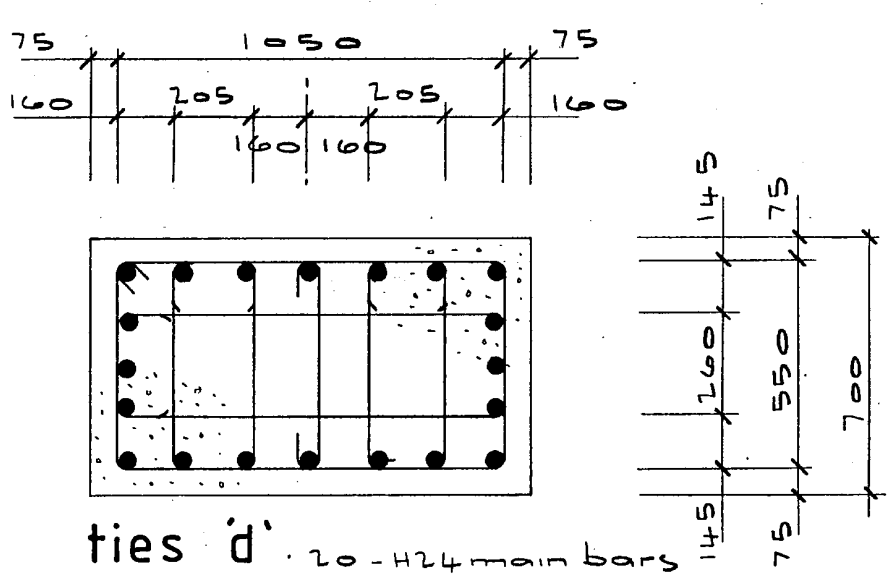
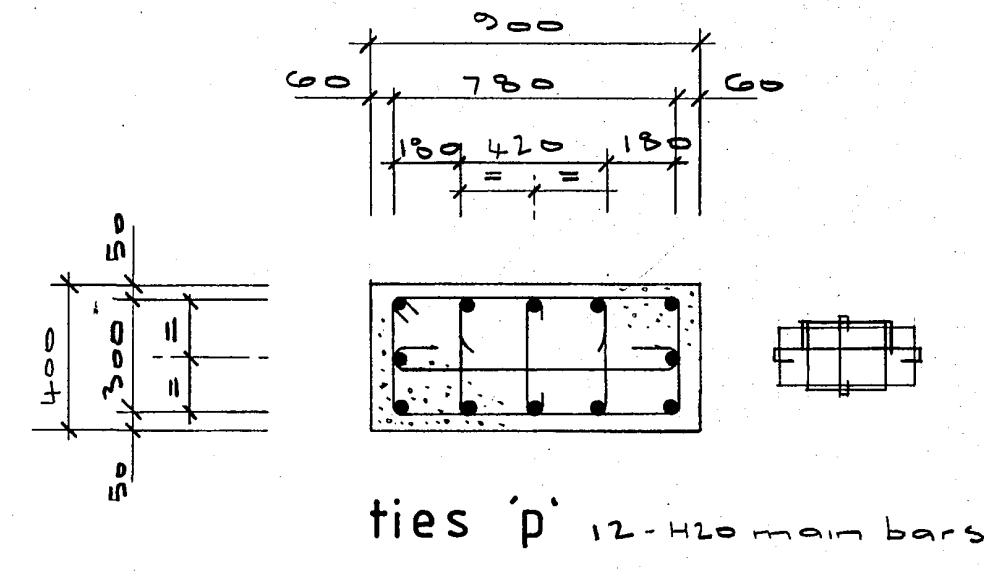
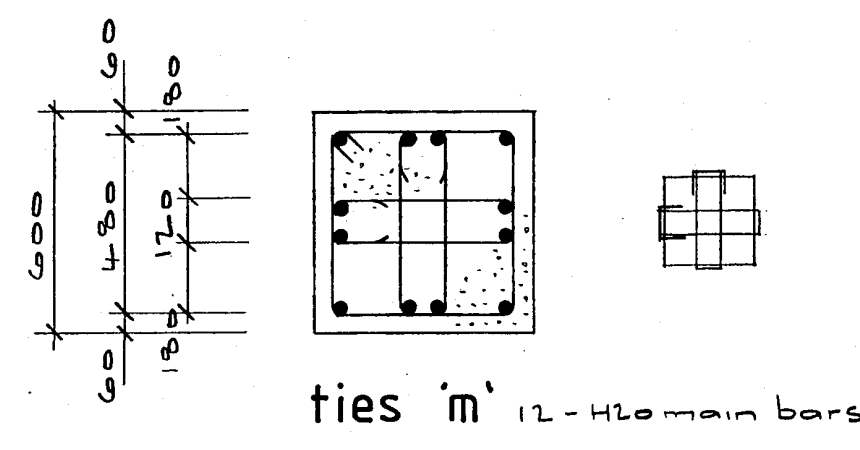
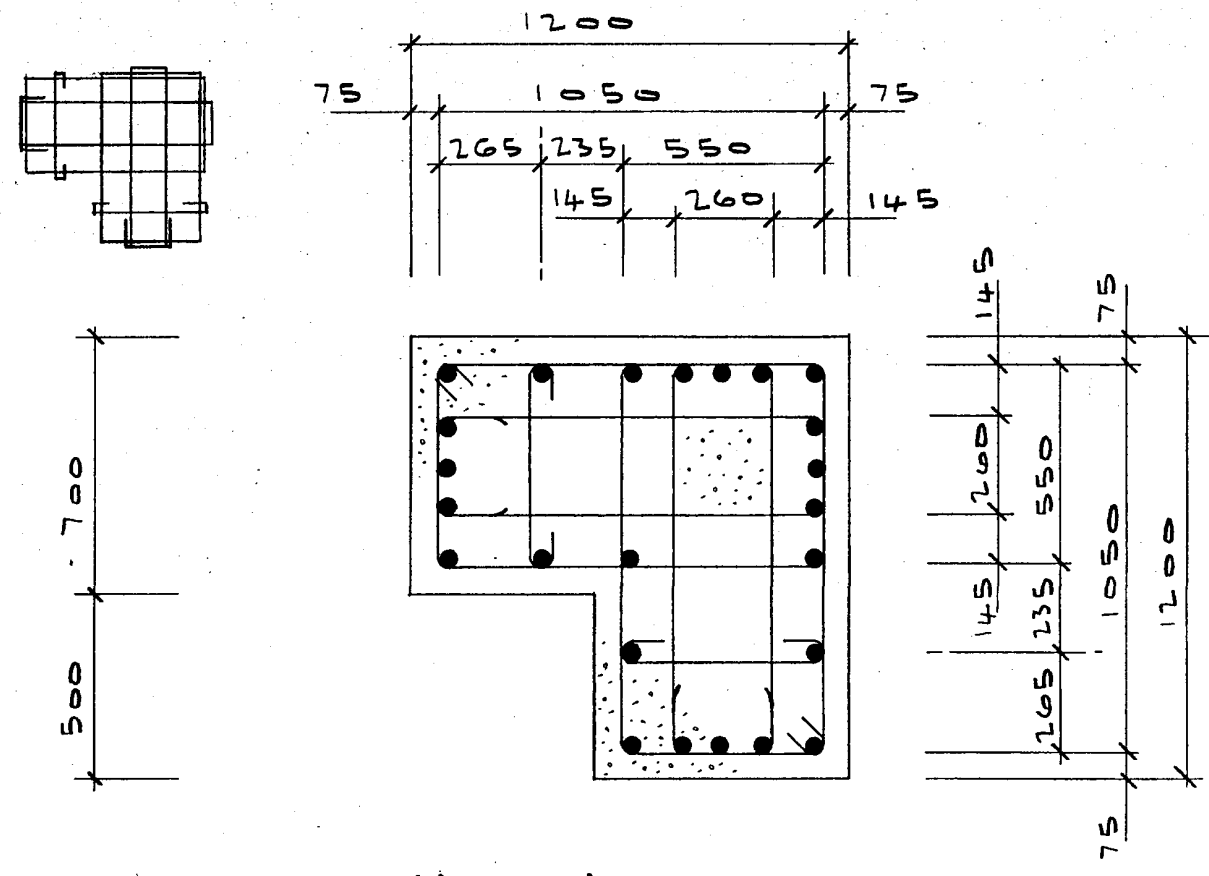
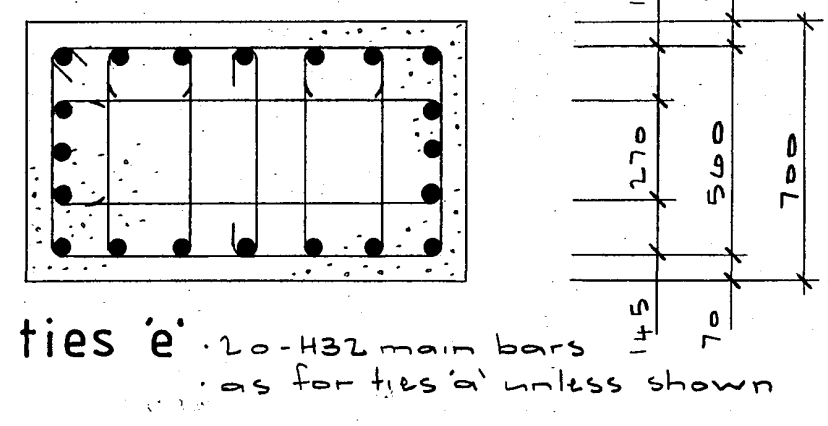
SHEET TITLE:  
INSITU COLUMN SCHEDULE - TOWER  
AND TIESET LAYOUTS

JOB NO: 2281 SHEET NO: S131 REV: 1

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number															
4	6	7	8	9	10	11	12	13	14	15	17	31	45		

Rev	Date	Amendments
1	4.3.88	PERMIT



- KEY TO SECTIONS
- Main column bar
  - Main column bar that extends above other column bars at a change in column section
  - starter bar
  - 20-H32 extending up through level 3 to the underside of level 4. Ties type 'k' only

NOTES

For reinforcing schedules see drwgs S160 & S161.

For vertical setout of ties 'a', 'c' etc see dwg S161

Stirrup dimensions shown are inside dimensions.

Warren & Mahoney Architects Ltd  
Christchurch, Wellington & Auckland

HOLMES CONSULTING GROUP  
STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

LANDMARK TOWER  
CHRISTCHURCH

DRAWN: G.K.R. SCALE: 1:20  
APPROVED: R.A.P.

SHEET TITLE:  
INSITU COLUMNS - TOWER  
TIESETS AND COLUMN SECTIONS

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
For Engineer

JOB NO: 2 281 SHEET NO: S132 REV: 1

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number															
4	6	7	8	9	10	11	12	13	14	15	17	31	45		

Rev	Date	Amendments
1	4.3.88	PERMIT

Beam Schedule Level 1							
Revision	APP'VD for constn	LOCATION	DR'WG REF	BEAM TYPE	LENGTH		COMMENTS
		1 . R . L/M	202	P1d	5755		
		1 . C . F/G	202	P2h	5415		
		1 . C . G/L	202	P3h	7520		BF.5
		1 . C . L/M	202	P4h	5775		BF.3
		1 . 2 . B/E	202	P2j	5415		
		1 . 2 . E/G	202	P3j	7520		BF.5
		1 . 2 . G/K	202	P4j	5775		BF.4
		1 . 15 . B/E	202	P1e	5755		
		1 . 4 . M/N	203	P5	7100		2 R.H.S stubs
		1 . 4 . N/O	203	P6	7000		
		1 . 6 . M/N	203	P5	7100		2 R.H.S stubs
		1 . 6 . N/O	203	P6	7000		
		1 . 10 . M/N	203	P5	7100		2 R.H.S stubs
		1 . 10 . N/O	203	P6	7000		
		1 . 13 . M/N	203	P5	7100		2 R.H.S stubs
		1 . 13 . N/O	203	P6	7000		
		1 . 14 . M/N		P11			
		1 . 14 . N/O		P12			

Beam Schedule Level 2							
Revision	APP'VD for constn	LOCATION	DR'WG REF	BEAM TYPE	LENGTH		COMMENTS
		2 . R . L/M	202	P1b	5755		
		2 . C . F/G	202	P2f	5415		
		2 . C . G/L	202	P3f	7520		BF.5
		2 . C . L/M	202	P4f	5775		BF.3
		2 . 2 . B/E	202	P2g	5415		
		2 . 2 . E/G	202	P3g	7520		BF.5
		2 . 2 . G/K	202	P4g	5775		BF.4
		2 . 15 . B/E	202	P1c	5755		
		2 . 4 . M/N	203	P9	7100		2 R.H.S stubs
		2 . 4 . N/O	203	P10	7000		
		2 . 6 . M/N	203	P7	7100		2 R.H.S stubs
		2 . 6 . N/O	203	P8	7000		
		2 . 10 . M/N	203	P7	7100		2 R.H.S stubs
		2 . 10 . N/O	203	P8	7000		
		2 . 13 . M/N	203	P7	7100		2 R.H.S stubs
		2 . 13 . N/O	203	P8	7000		
		2 . 14 . M/N		P13			
		2 . 14 . N/O		P14			

Beam Schedule Level 3							
Revision	APP'VD for constn	LOCATION	DR'WG REF	BEAM TYPE	LENGTH		COMMENTS
		3 . R . L/M	202	P1b	5755		
		3 . C . F/G	202	P2f	5415		
		3 . C . G/L	202	P3f	7520		BF.5
		3 . C . L/M	202	P4f	5775		BF.3
		3 . 2 . B/E	202	P2g	5415		
		3 . 2 . E/G	202	P3g	7520		BF.5
		3 . 2 . G/K	202	P4g	5775		BF.4
		3 . 15 . B/E	202	P1c	5755		
		3 . 4 . M/N	203	P7	7100		2 R.H.S stubs.
		3 . 4 . N/O	203	P8	7000		
		3 . 6 . M/N	203	P7	7100		2 R.H.S stubs
		3 . 6 . N/O	203	P8	7000		
		3 . 10 . M/N	203	P7	7100		2 R.H.S stubs
		3 . 10 . N/O	203	P8	7000		
		3 . 13 . M/N	203	P7	7100		2 R.H.S stubs
		3 . 13 . N/O	203	P8	7000		
		3 . 14 . M/N		P15			
		3 . 14 . N/O		P16			

Beam Schedule Level 4							
Revision	APP'VD for constn	LOCATION	DR'WG REF	BEAM TYPE	LENGTH		COMMENTS
		4 . R . L/M	201	P1	5755		
		4 . C . F/G	202	P2b	5640		
		4 . C . G/L	202	P3d	7750		BF.5
		4 . C . L/M	202	P4d	5775		BF.1
		4 . 2 . B/E	202	P2c	5640		
		4 . 2 . E/G	202	P3e	7750		BF.5
		4 . 2 . G/K	202	P4e	5775		BF.2
		4 . 15 . B/E	201	P1a	5755		

Beam Schedule Level 5							
Revision	APP'VD for constn	LOCATION	DR'WG REF	BEAM TYPE	LENGTH		COMMENTS
		5 . R . L/M	201	P1	5755		
		5 . C . F/G	202	P2d	5640		
		5 . C . G/L	202	P3d	7750		BF.5
		5 . C . L/M	202	P4d	5775		BF.1
		5 . 2 . B/E	202	P2e	5640		
		5 . 2 . E/G	202	P3e	7750		BF.5
		5 . 2 . G/K	202	P4e	5775		BF.2
		5 . 15 . B/E	201	P1a	5755		

Beam Schedule Level 6							
Revision	APP'VD for constn	LOCATION	DR'WG REF	BEAM TYPE	LENGTH		COMMENTS
		6 . R . L/M	201	P1	5755		
		6 . C . F/G	202	P2d	5640		
		6 . C . G/L	202	P3d	7750		BF.5
		6 . C . L/M	202	P4d	5775		BF.1
		6 . 2 . B/E	202	P2e	5640		
		6 . 2 . E/G	202	P3e	7750		BF.5
		6 . 2 . G/K	202	P4e	5775		BF.2
		6 . 15 . B/E	201	P1a	5755		

Beam Schedule Levels 7 to 12							
Revision	APP'VD for constn	LOCATION	DR'WG REF	BEAM TYPE	LENGTH		COMMENTS
		7 to 12 . R . L/M	201	P1	5755		
		7 & 8 . C . F/G	202	P2d	5640		
		9 to 12 . C . F/G	202	P2b	5640		
		7 to 12 . C . G/L	202	P3b	7900		BF.5
		7 to 12 . C . L/M	202	P4b	5925		BF.1
		7 & 8 . 2 . B/E	202	P2e	5640		
		9 to 12 . 2 . B/E	202	P2c	5640		
		7 to 12 . 2 . E/G	202	P3c	7900		BF.5
		7 to 12 . 2 . G/K	202	P4c	5925		BF.2
		7 to 12 . 15 . B/E	201	P1a	5755		

Beam Schedule Levels 13 to 19							
Revision	APP'VD for constn	LOCATION	DR'WG REF	BEAM TYPE	LENGTH		COMMENTS
		13 to 19 . R . L/M	201	P1	5755		
		13 to 19 . C . F/G	201	P2	5715		
		13 to 19 . C . G/L	201	P3	8125		BF.5
		13 to 19 . C . L/M	201	P4	6075		BF.1
		13 to 19 . 2 . B/E	201	P2a	5715		
		13 to 19 . 2 . E/G	201	P3a	8125		BF.5
		13 to 19 . 2 . G/K	201	P4a	6075		BF.2
		13 to 19 . 2 . B/E	201	P1a	5355		

Beam Schedule Level 20							
Revision	APP'VD for constn	LOCATION	DR'WG REF	BEAM TYPE	LENGTH		COMMENTS
		20 . R . L/M	201	P1	5755		
		20 . C . F/G	201	P2	5715		
		20 . C . G/L	201	P3	8125		BF.5
		20 . C . L/M	201	P4	6075		BF.1
		20 . 2 . B/E	201	P2a	5715		
		20 . 2 . E/G	201	P3a	8125		BF.5
		20 . 2 . G/K	201	P4a	6075		BF.2
		20 . 15 . B/E	201	P1a	5755		

Warren & Mahoney Architects Ltd  
Christchurch Wellington & Auckland

HOLMES CONSULTING GROUP  
STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

# LANDMARK TOWER CHRISTCHURCH

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
G. K. R.

DRAWN: G. K. R. SCALE: N.T.S.  
APPROVED: R.A.P.

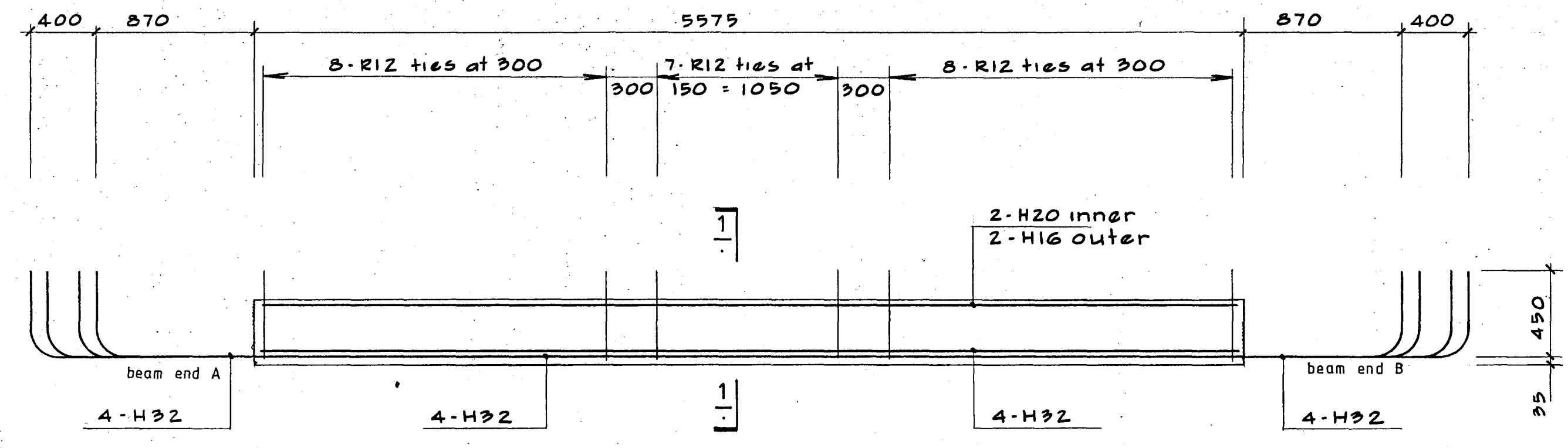
SHEET TITLE:  
PRECAST BEAM SCHEDULE  
LEVELS 1 TO 20

JOB NO: 2 2 8 1 SHEET NO: S200 REV: 1

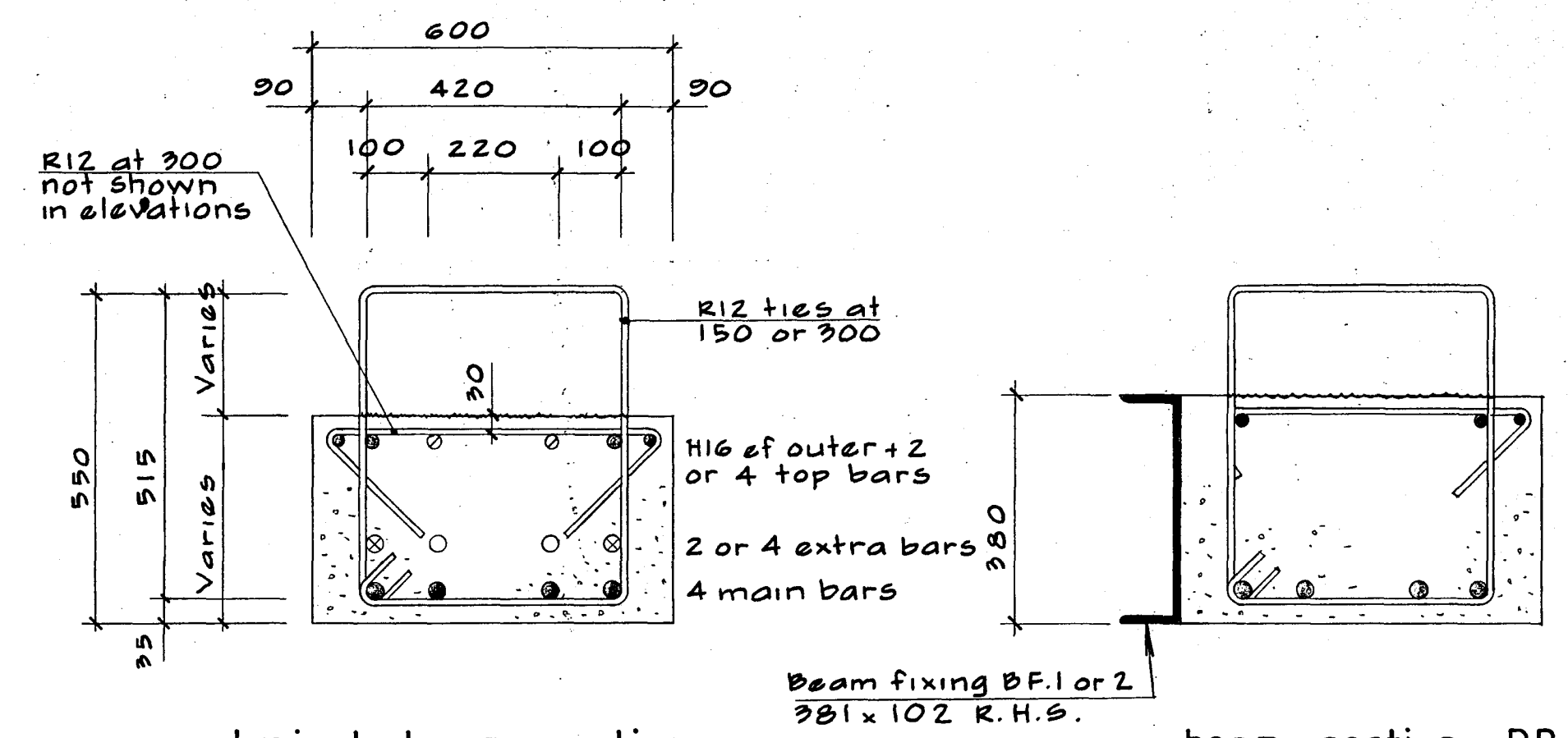
ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number															
4	6	7	8	9	10	11	12	13	14	15	17	31	45		

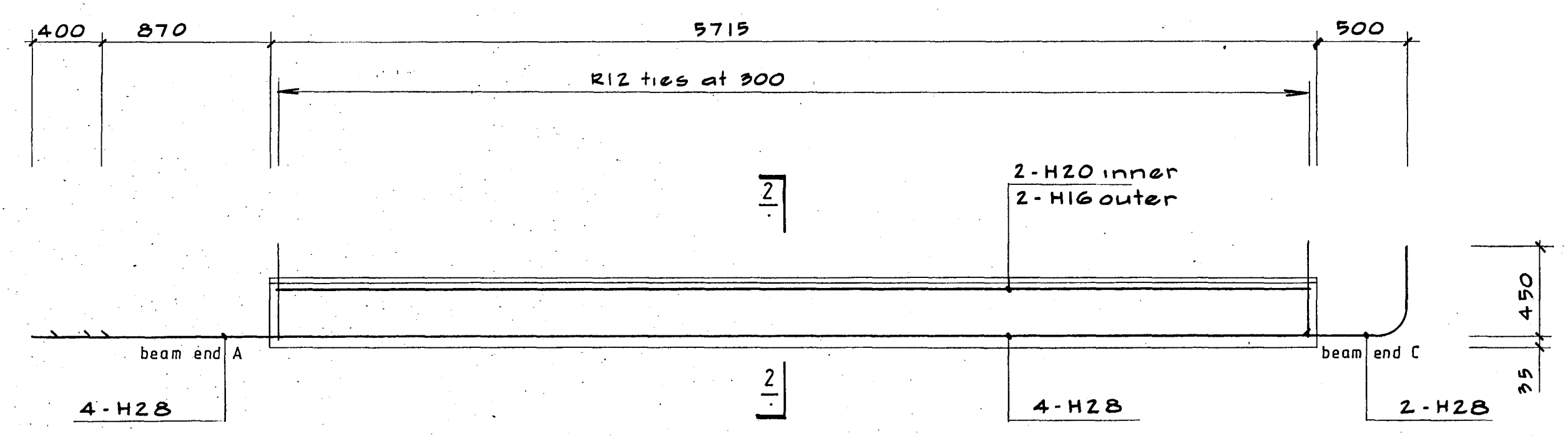
Rev	Date	Amendments
1	4 3 88	PERMIT



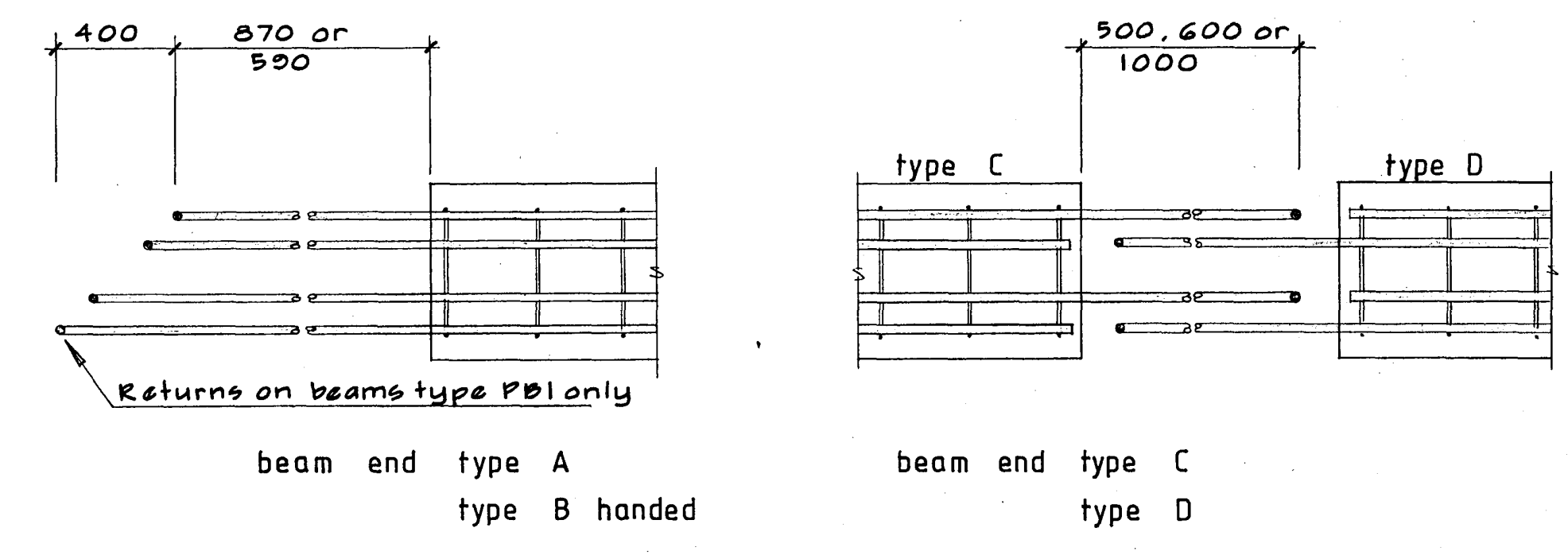
typical reinforcing, beam types PB.1  
PB.1 shown, PB.1a handed.



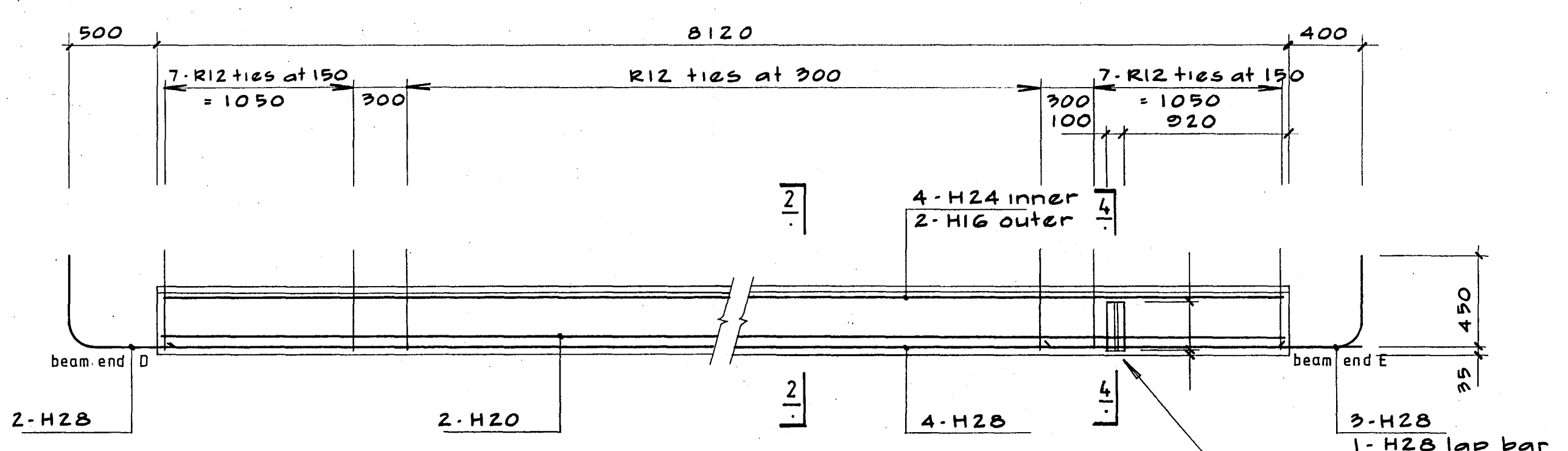
typical beam section - reinforcing  
beam section PB.4 through channel



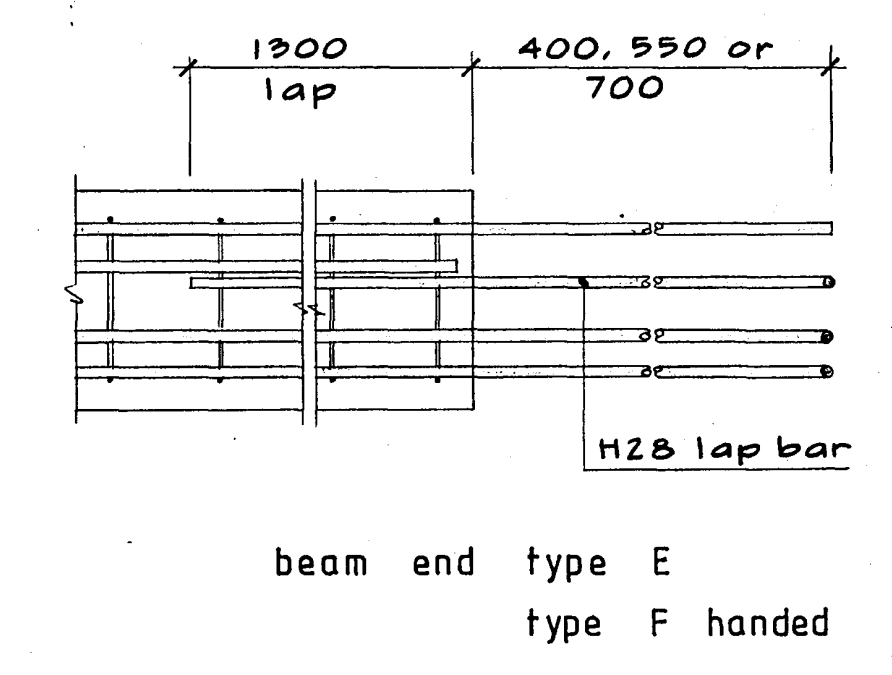
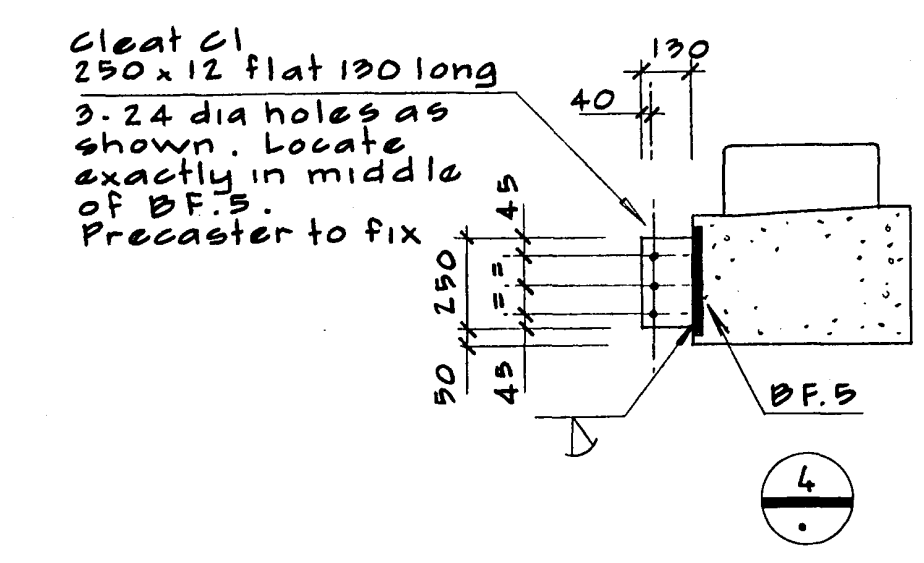
typical reinforcing, beam types PB.2  
PB.2 shown, PB.2a handed



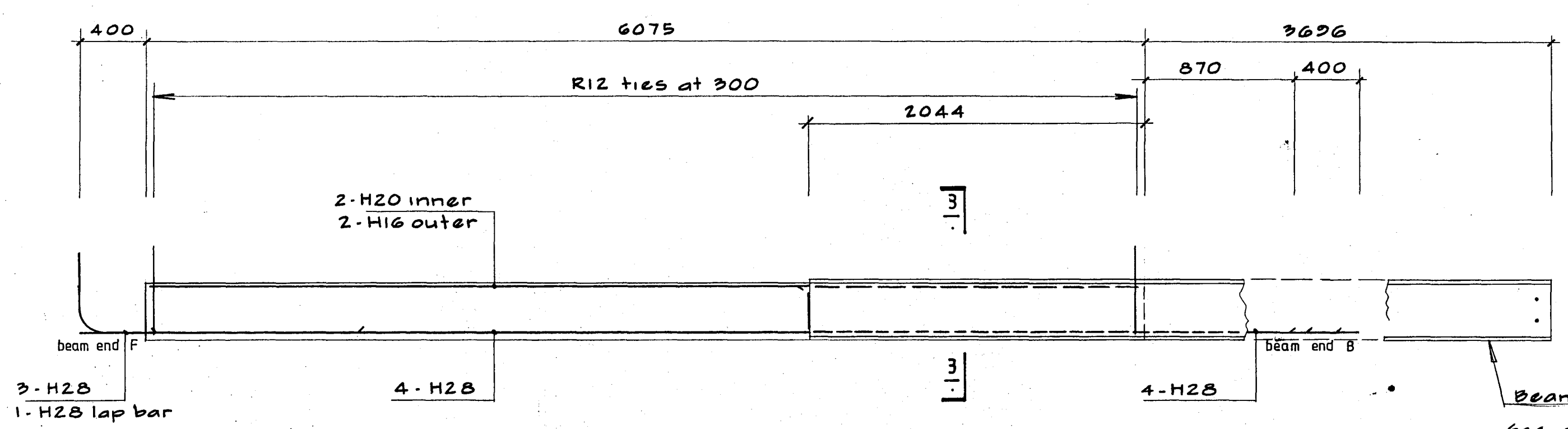
beam end type A  
type B handed  
beam end type C  
type D



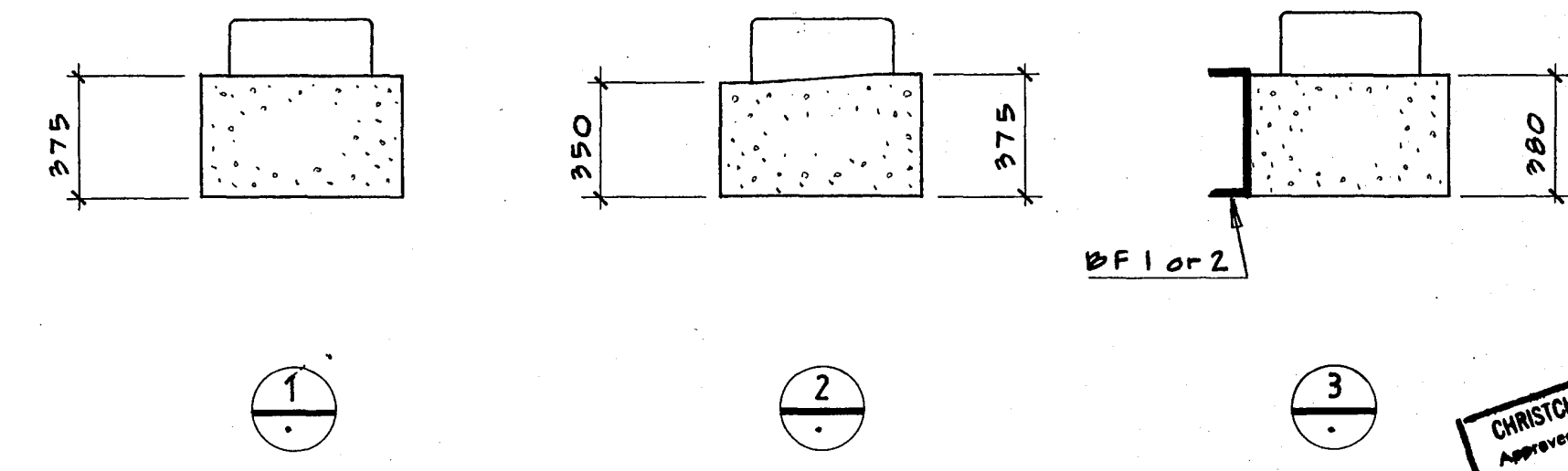
typical reinforcing, beam types PB.3  
PB.3 shown, PB.3a handed



beam end type E  
type F handed



typical reinforcing, beam types PB.4  
PB.4 shown, PB.4a handed



Beam fixing BF.1 (PB.4)  
BF.2 (PB.4a)  
see drwg

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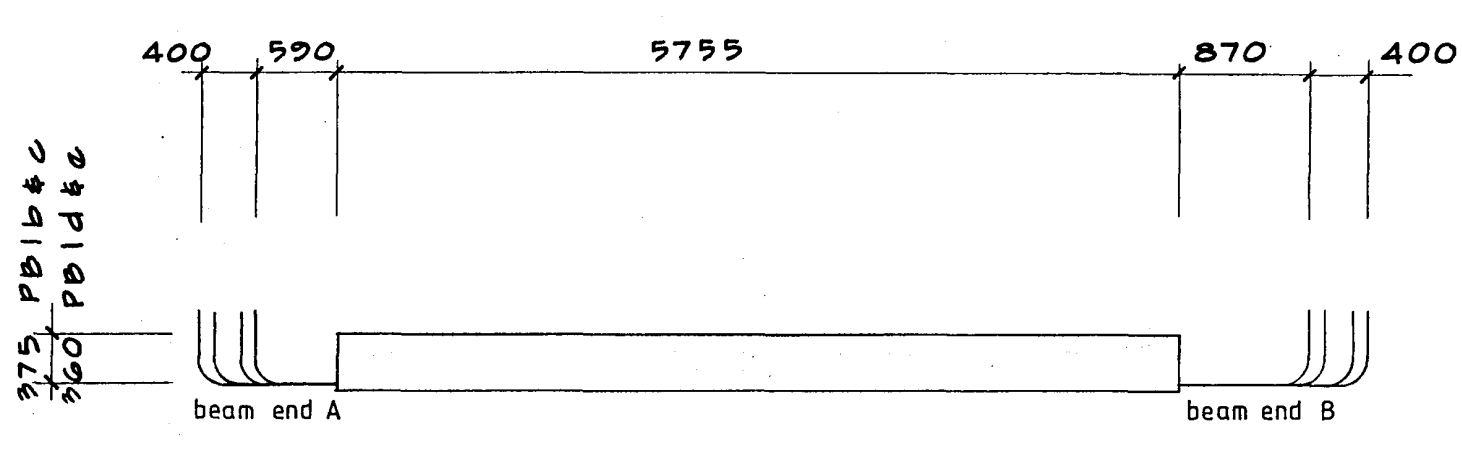
LANDMARK TOWER  
CHRISTCHURCH

DRAWN: G. K. R. SCALE: 1:25 1:10  
 APPROVED: R.A.P.  
 SHEET TITLE:  
 PRECAST BEAM REINFORCING  
 BEAM TYPES P1 TO P4

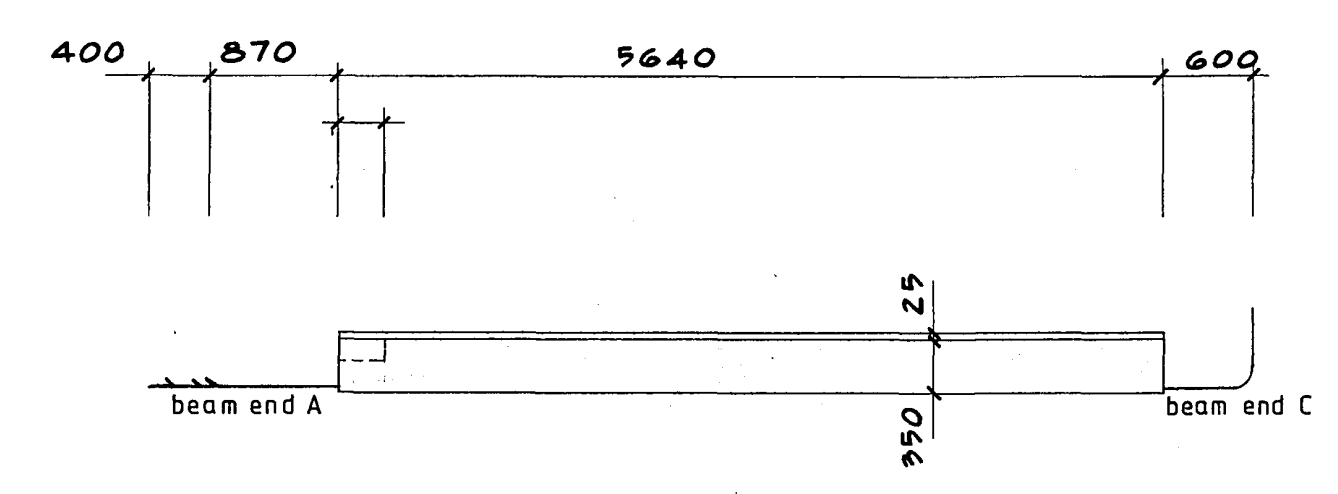
CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the By-Laws  
 26 APR 1988  
 For Engineer

JOB NO: 2281  
 SHEET NO: S201  
 REV: 1

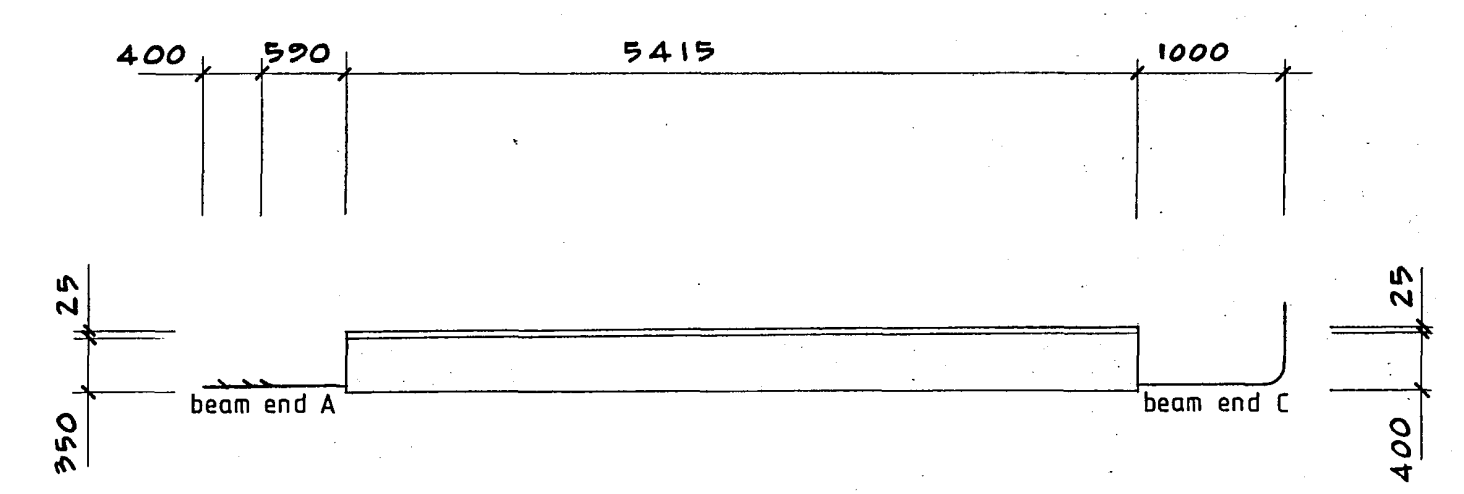




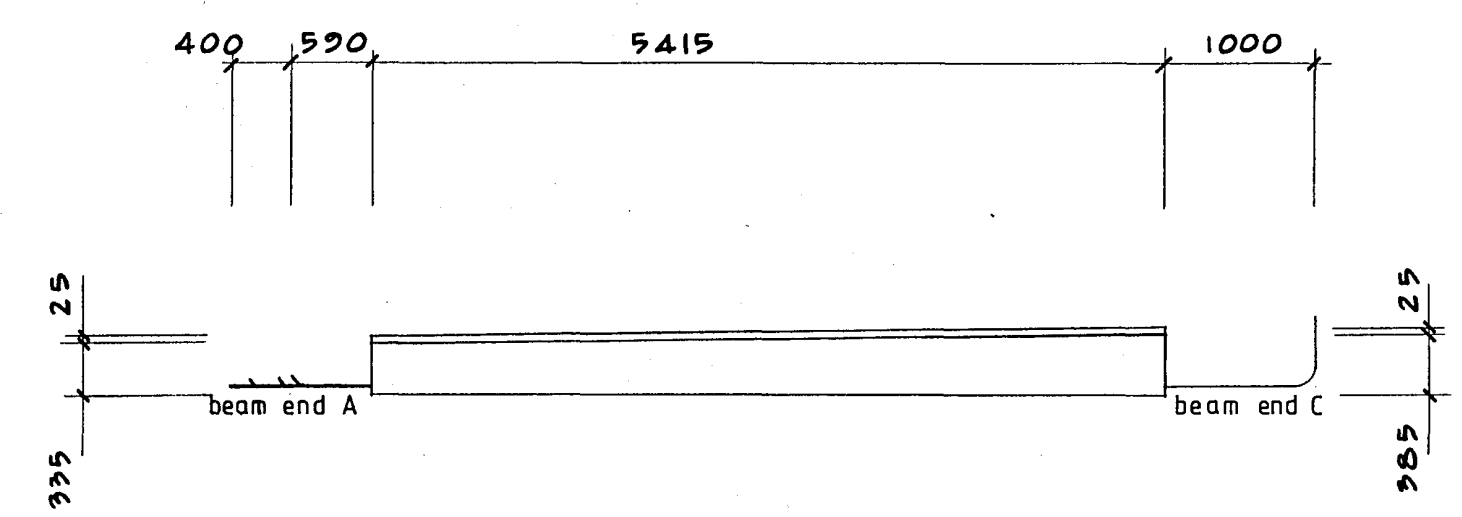
beam PB.1b  
PB.1c handed  
PB.1d  
PB.1e handed



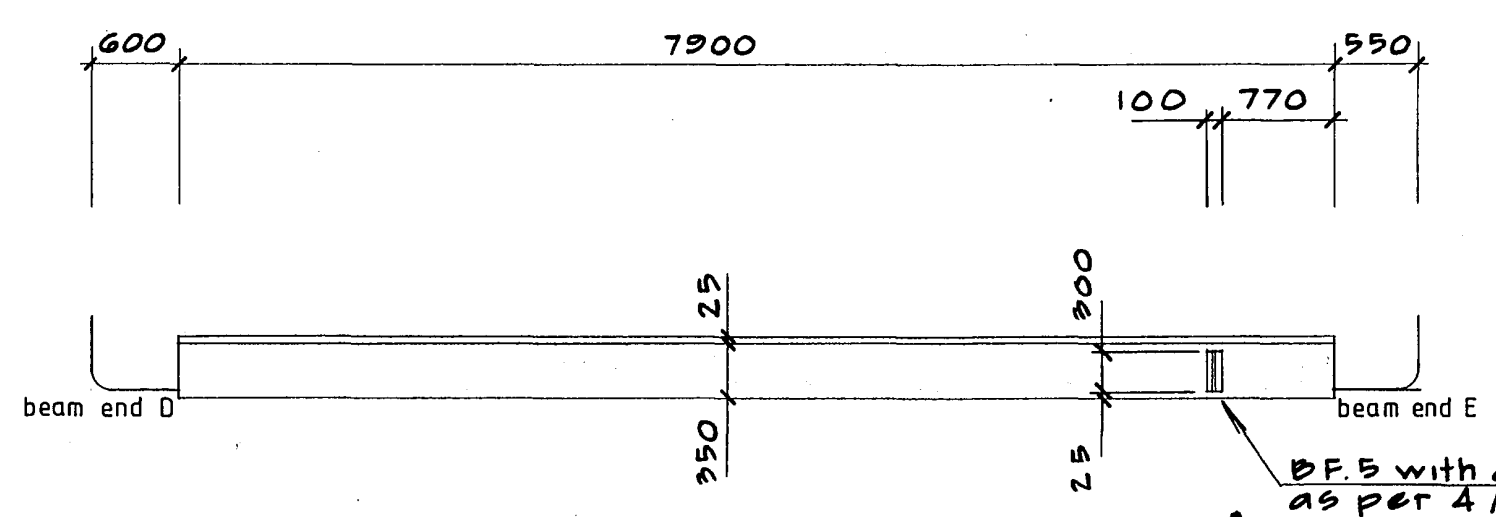
beam PB.2b  
PB.2c handed  
PB.2d  
PB.2e handed



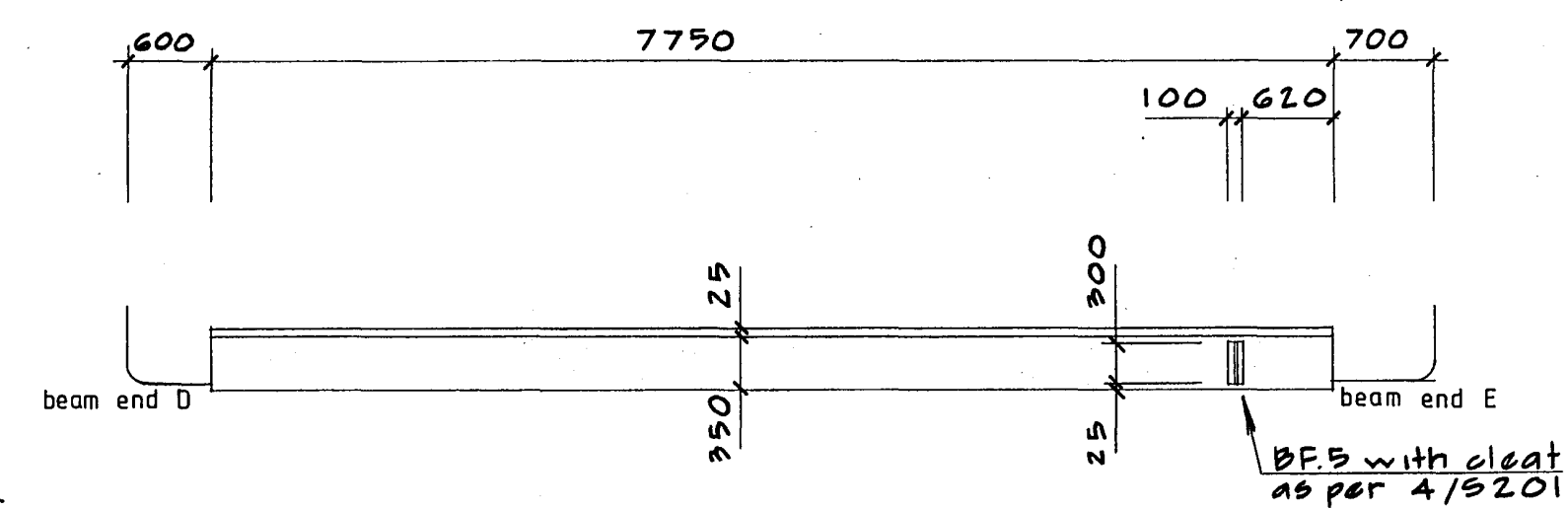
beam PB.2f  
PB.2g handed



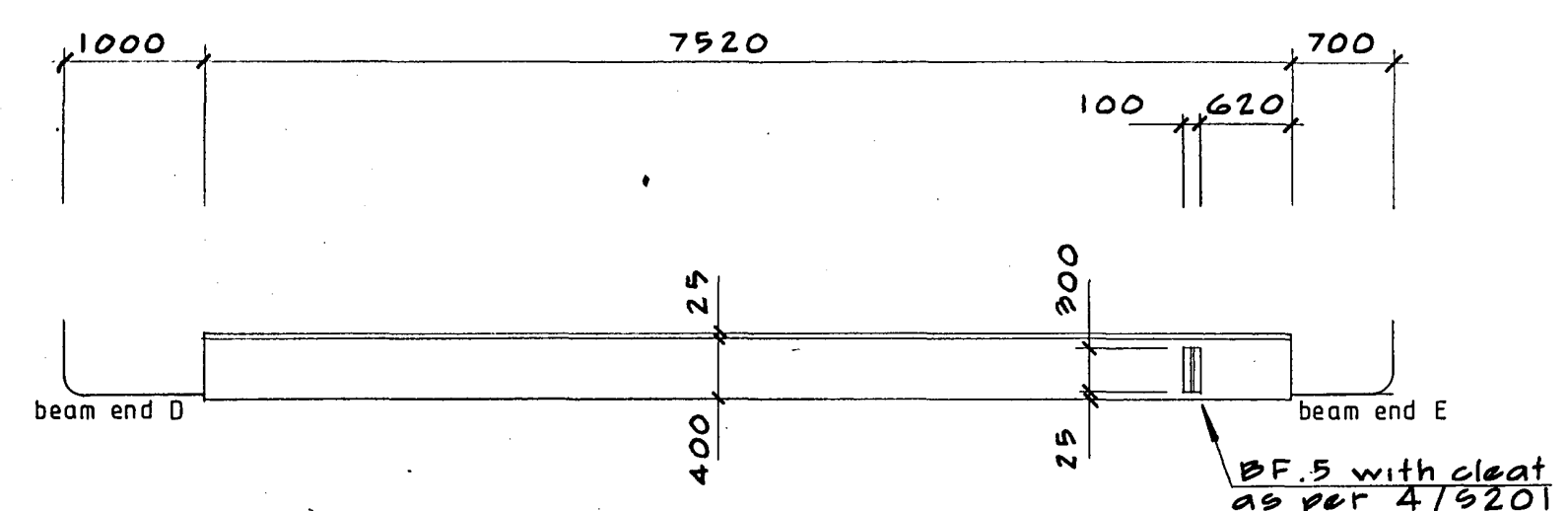
beam PB.2h  
PB.2j handed



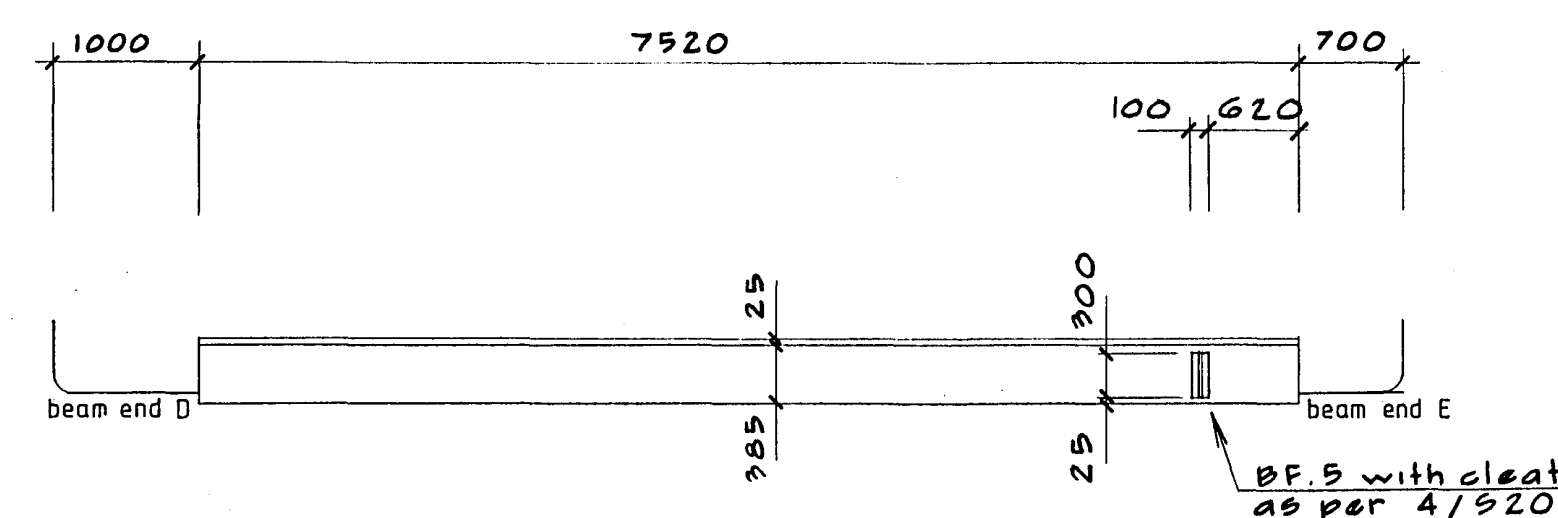
beam PB.3b  
PB.3c handed



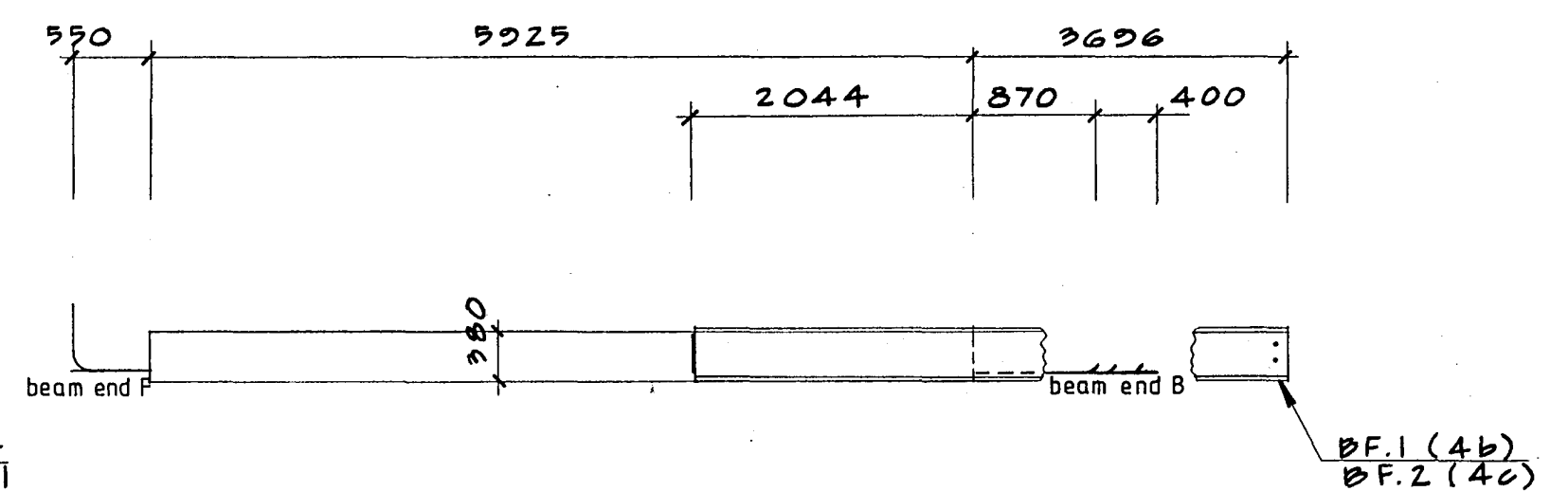
beam PB.3d  
PB.3e handed



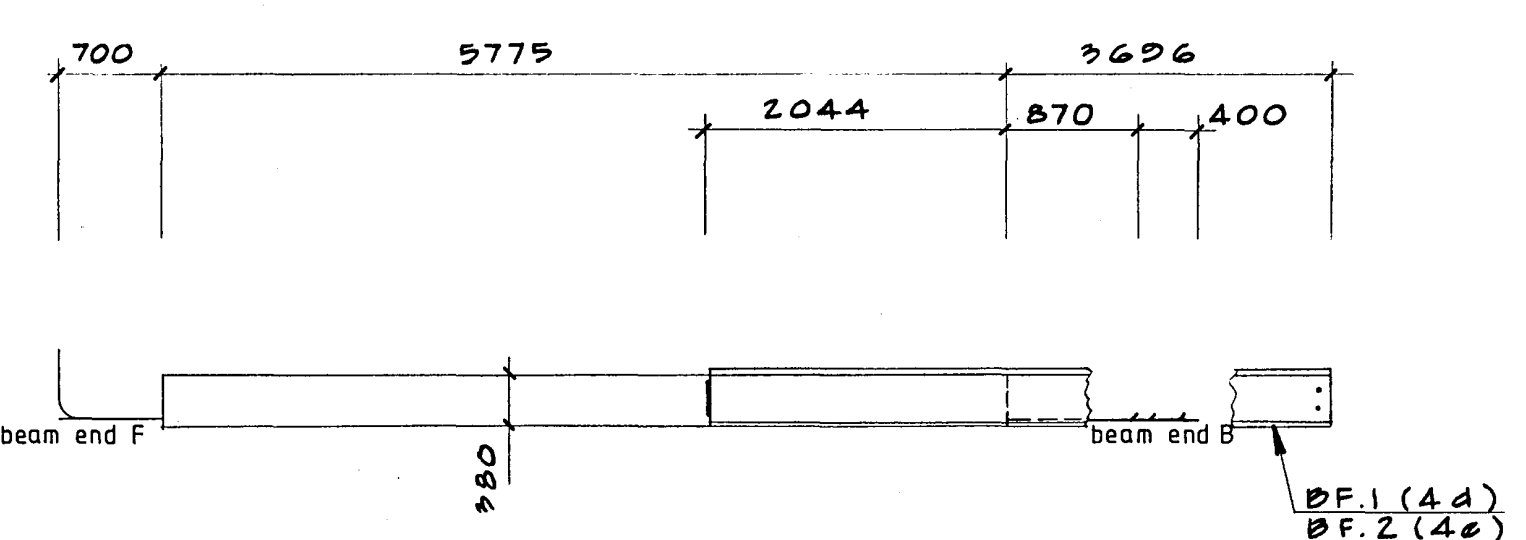
beam PB.3f  
PB.3g handed



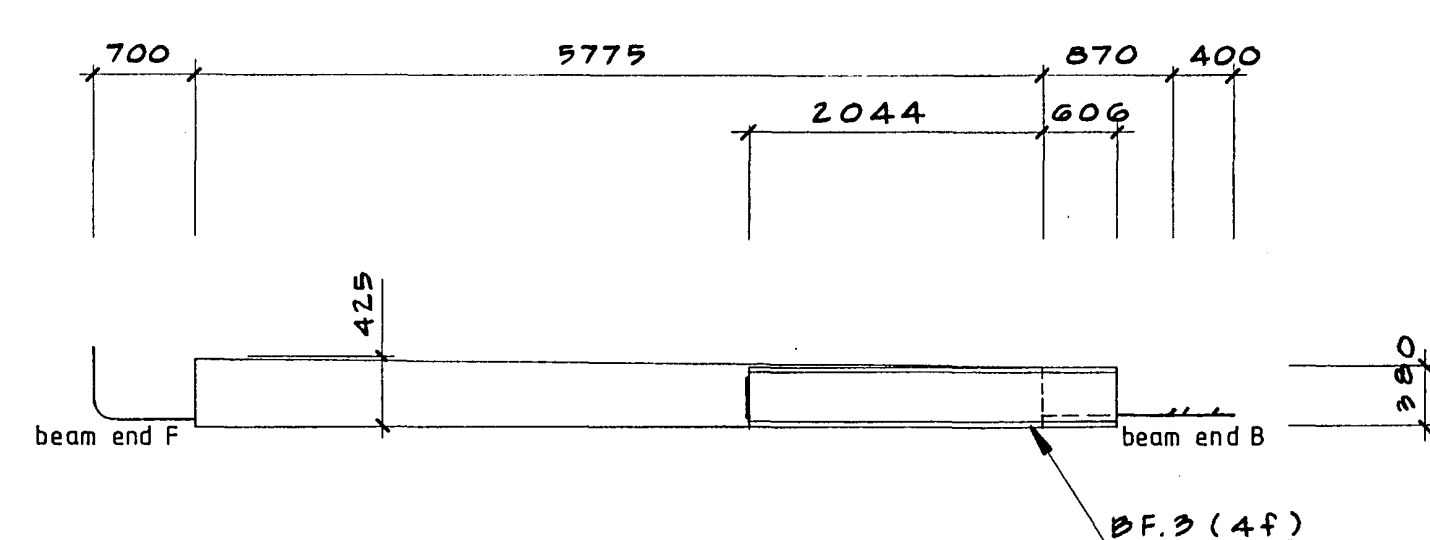
beam PB.3h  
PB.3j handed



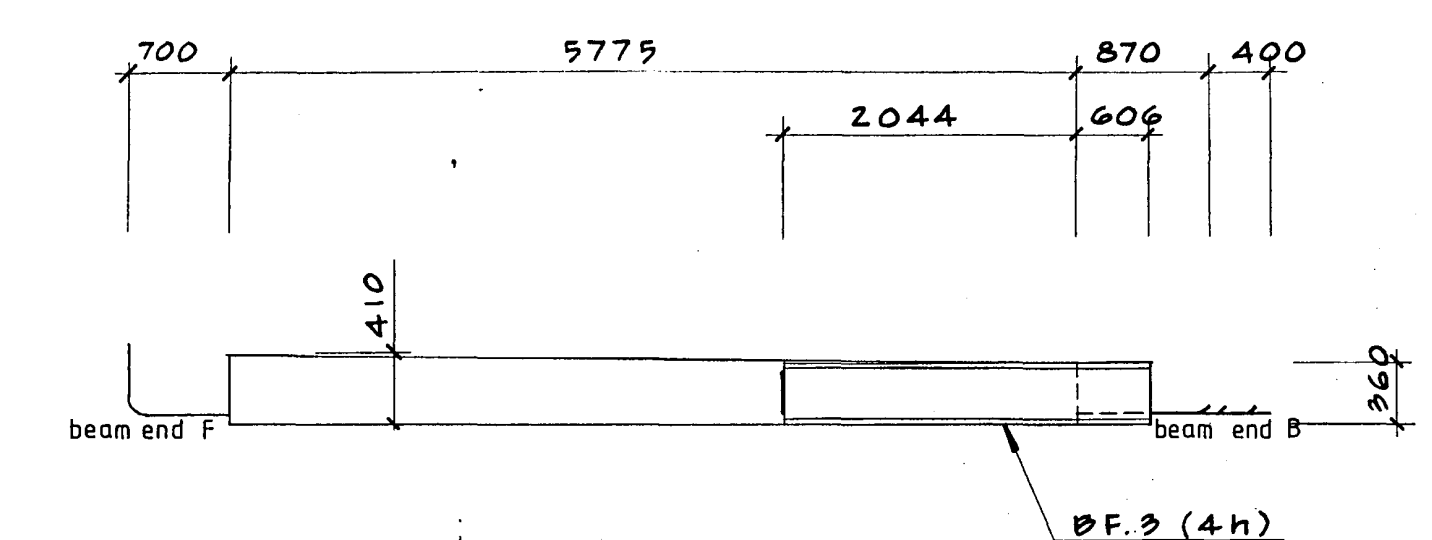
beam PB.4b  
PB.4c handed



beam PB.4d  
PB.4e handed



beam PB.4f  
PB.4g handed



beam PB.4h  
PB.4j handed

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

4	6	7	8	9	10	11	12	13	14	15	17	31	45
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Rev	Date	Amendments
1	4.3.88	PERMIT

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Christchurch, Wellington, New Plymouth, Auckland

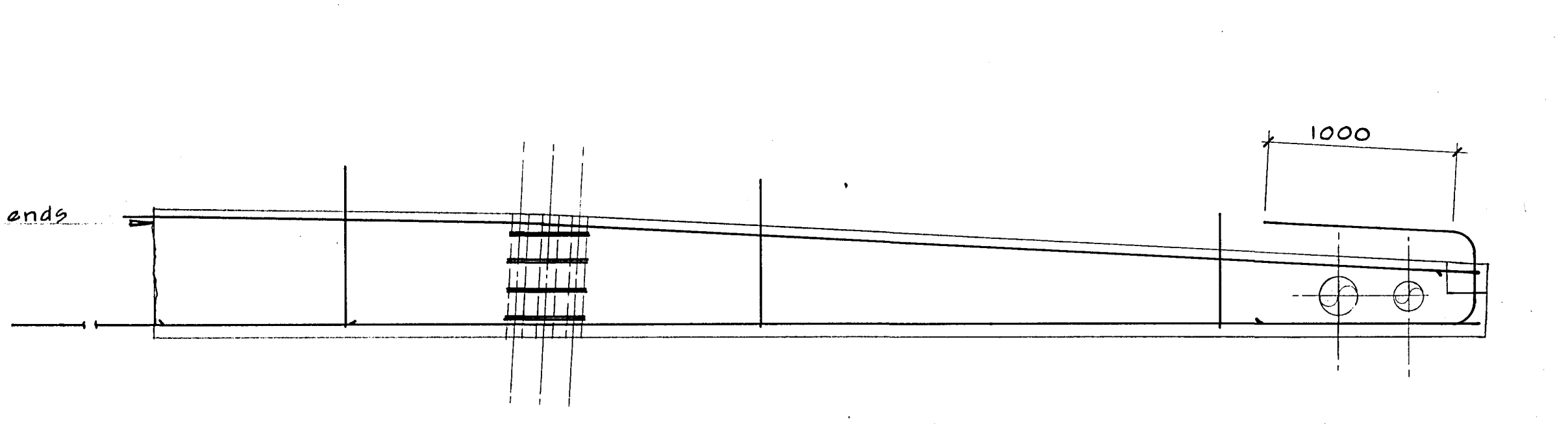
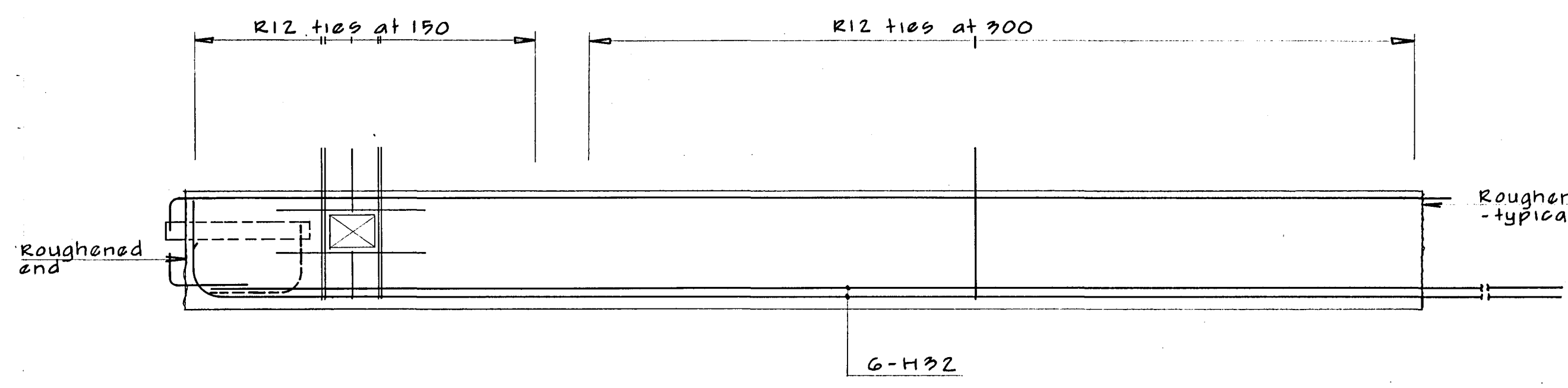
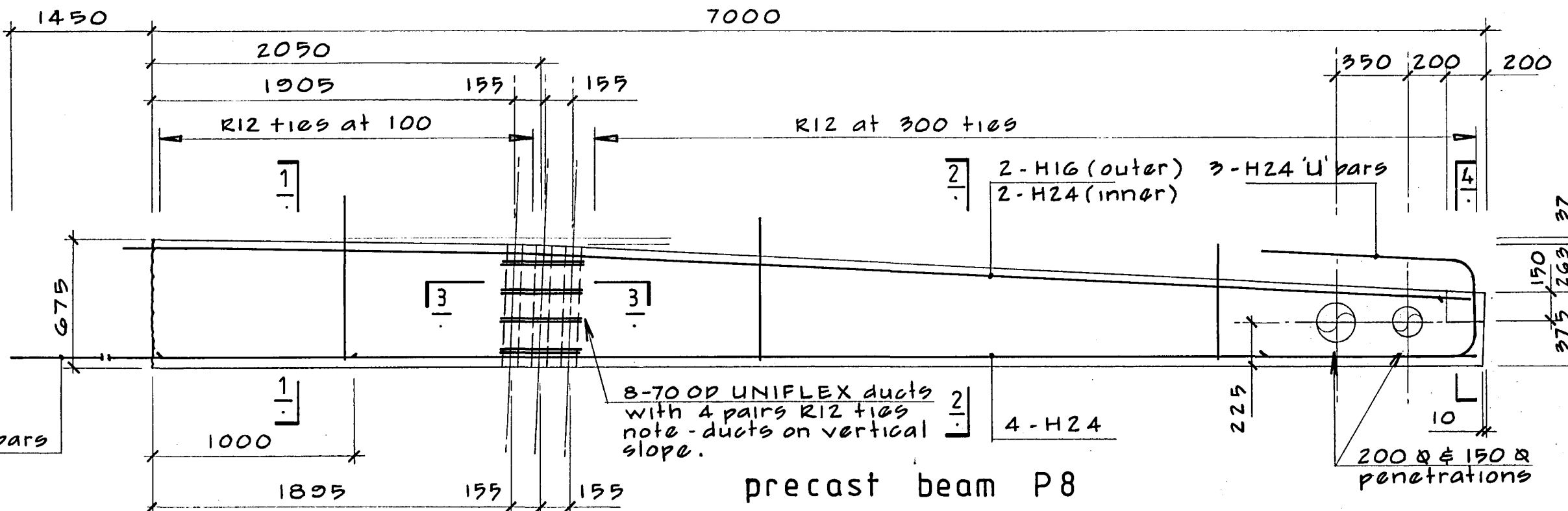
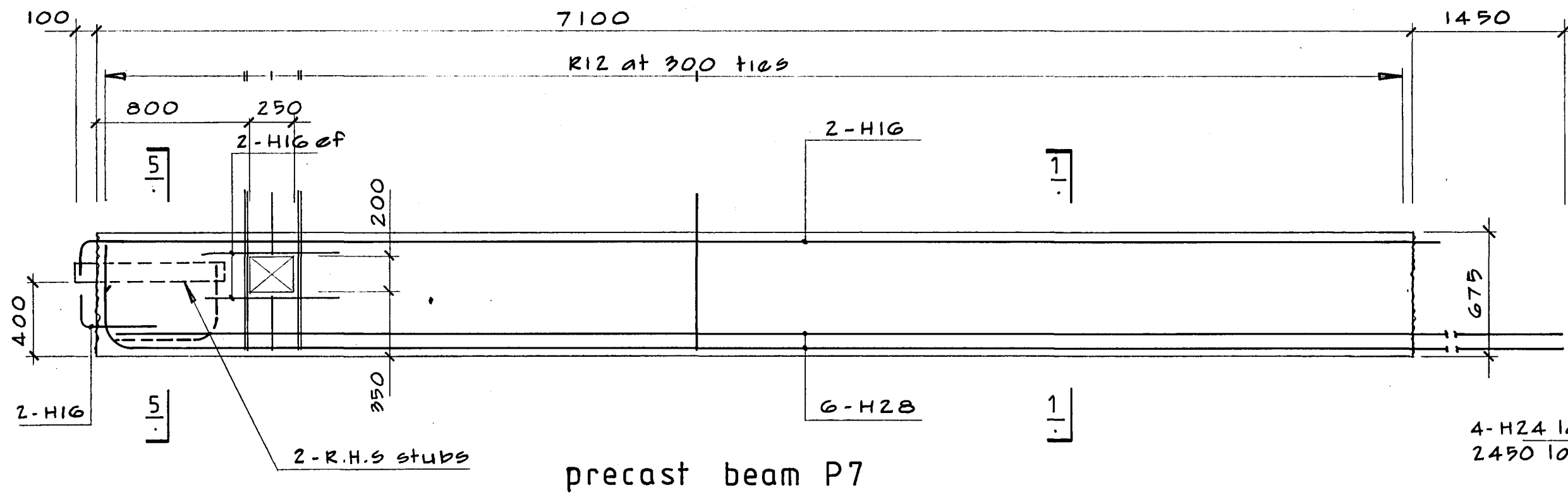
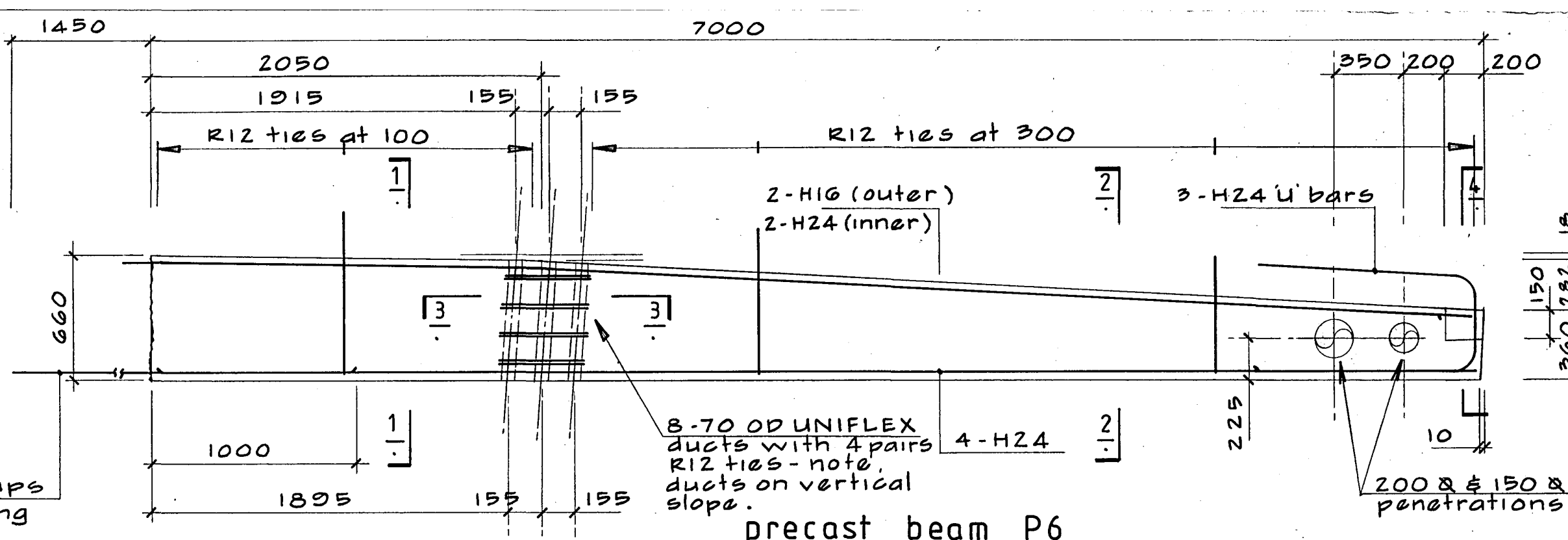
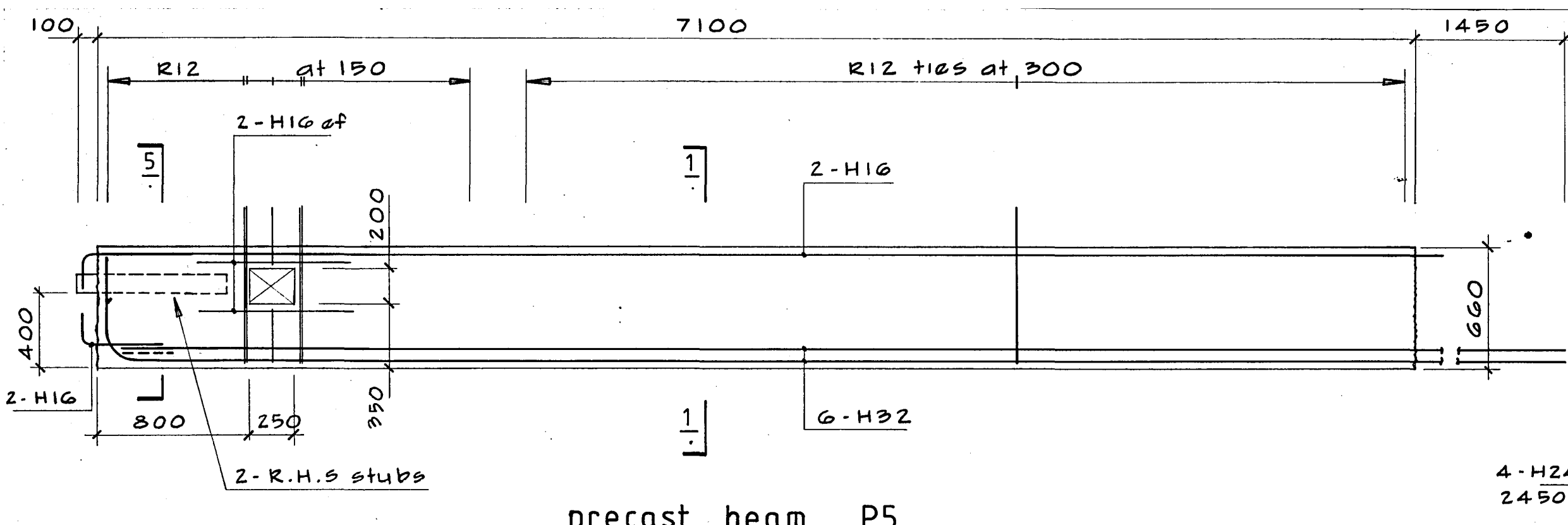
LANDMARK TOWER  
CHRISTCHURCH

DRAWN: G.K.R SCALE: 1:50 1:20  
APPROVED: R.A.P.

SHEET TITLE:  
PRECAST BEAMS P1 TO P4  
CARCASS VARIATIONS

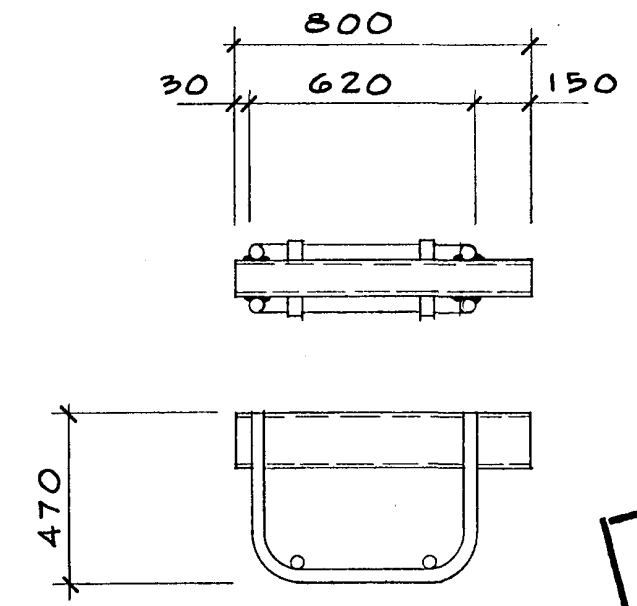
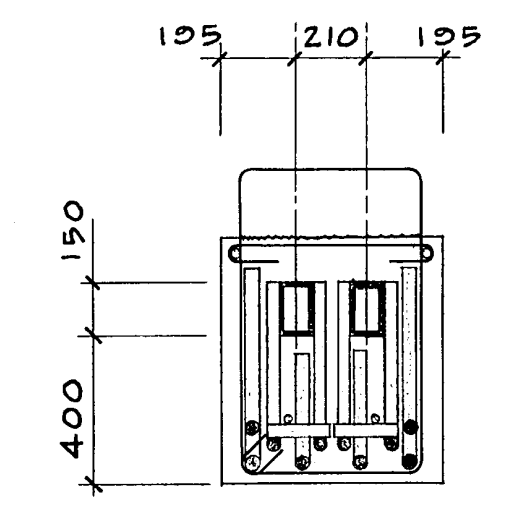
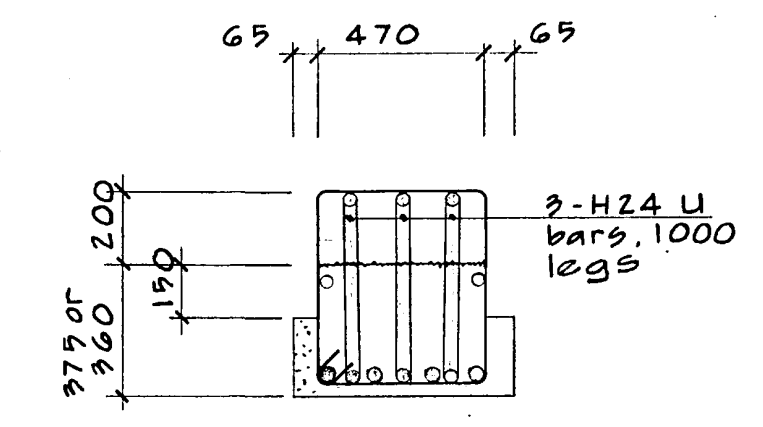
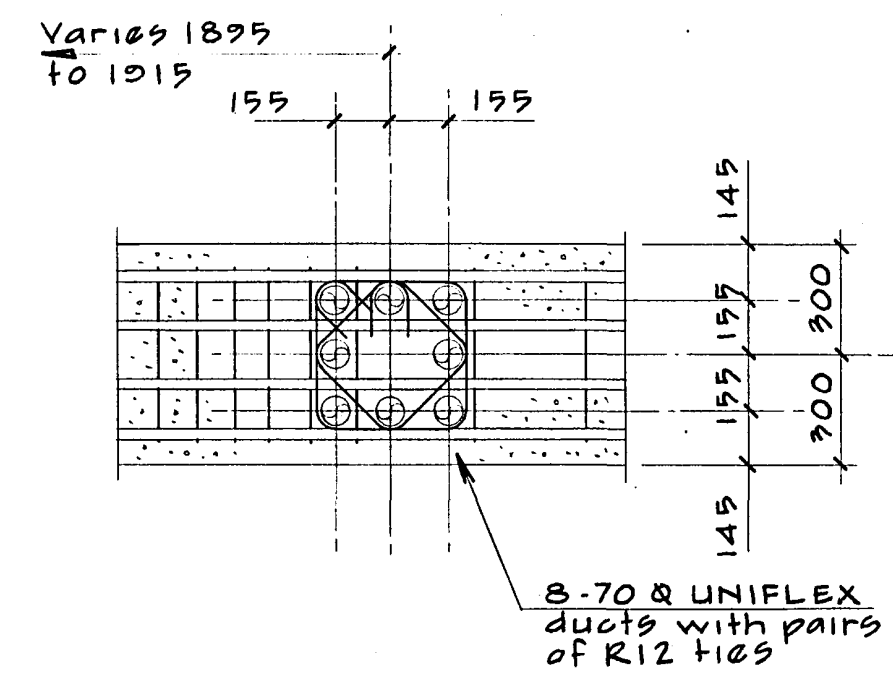
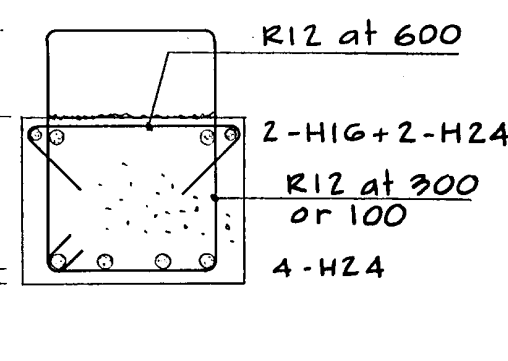
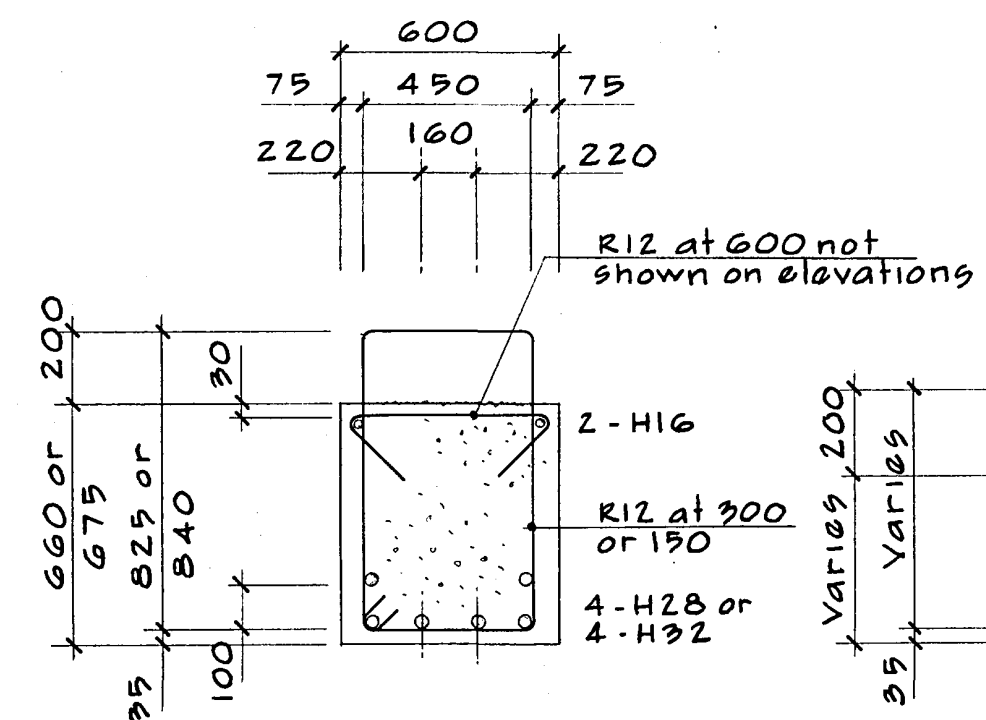
JOB NO: 2281 SHEET NO: S202 REV: 1

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
Engineer



ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK.

For package number															
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Rev	Date	Amendments													
1	4.3.88	PERMIT													



R.H.S stub  
152x102x9.5 R.H.S, 300 long  
2-D32 U bars, 12 fw each side to R.H.S.  
2-D32 stubs, 200 long, fw to U bars.

CHRISTCHURCH CITY COUNCIL  
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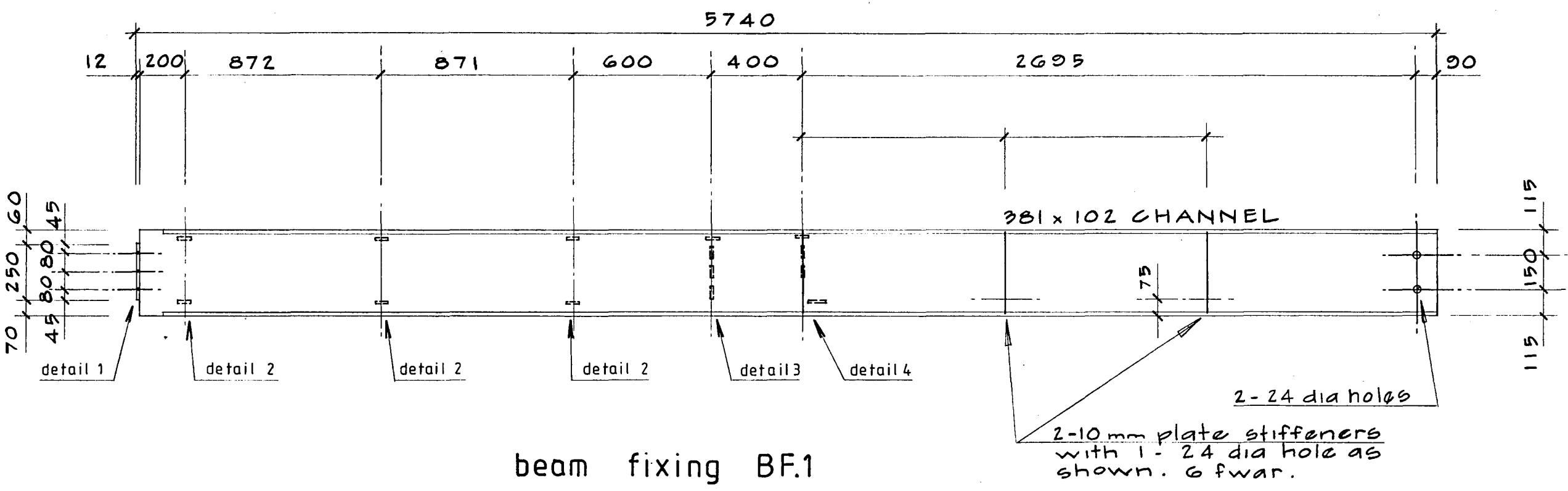
HOLMES CONSULTING GROUP  
STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

LANDMARK TOWER  
CHRISTCHURCH

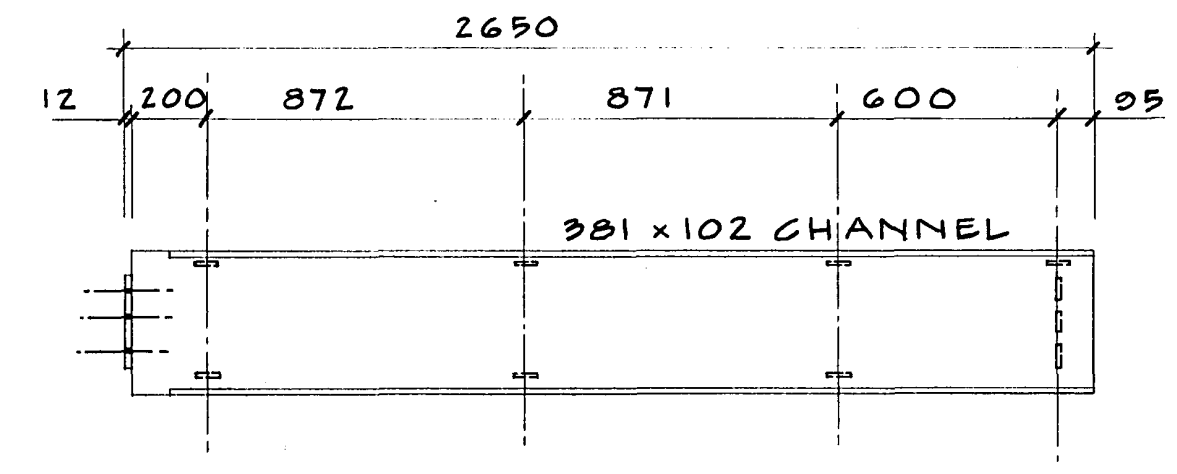
DRAWN: G.K.R. SCALE: 1:25 1:20  
APPROVED: R.A.P.

SHEET TITLE:  
PRECAST BEAM REINFORCING  
BEAMS TYPE P5 TO P10

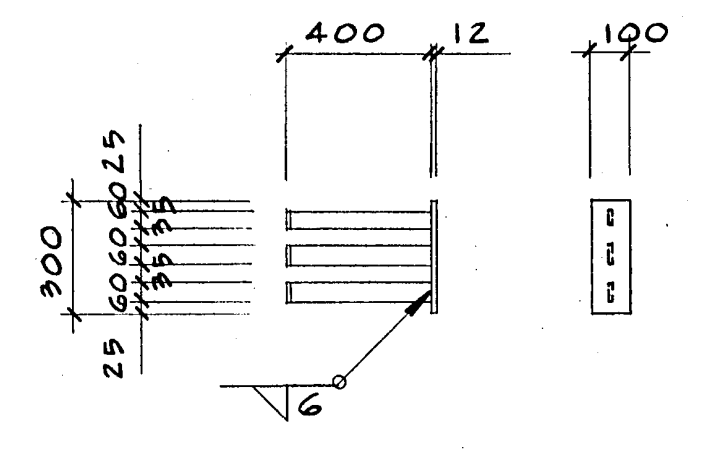
JOB NO: 2281 SHEET NO: S203 REV: 1



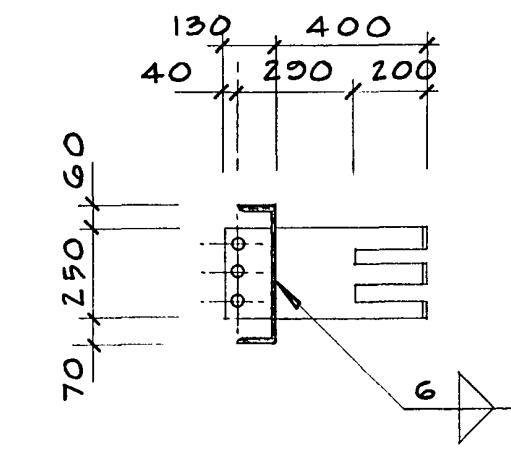
beam fixing BF.1  
BF.2 handed



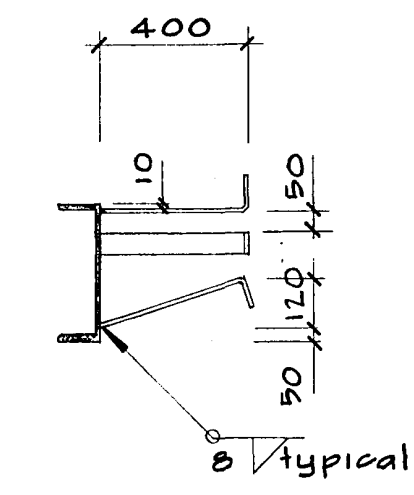
beam fixing BF.3  
BF.4 handed  
as for BF.1 & 2 unless shown



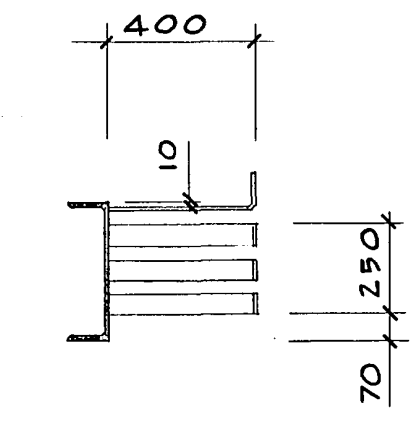
beam fixing BF.5  
- 100 x 12 flat, 300 long  
- 3-50 x 8 flats, 500 long  
bent as shown



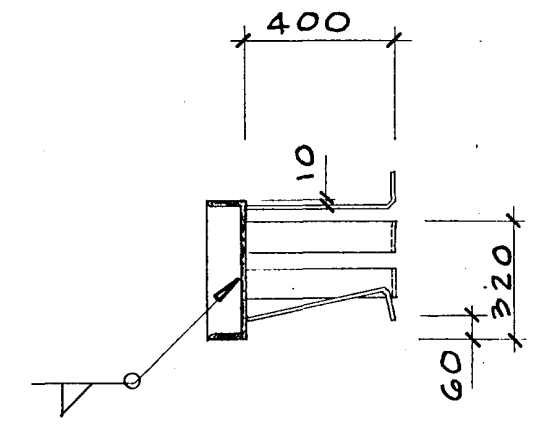
detail 1  
- 250 x 10 flat, 650 long  
bend 3-200 x 50 fins  
at end as shown.  
- 2-24 dia holes as shown  
- cut flanges of channel 100  
back as shown on elevation.



detail 2  
2-80 x 10 flats, 500  
long, top & bottom  
1-60 x 10 flat 500  
long



detail 3  
3-60 x 10 flats  
500 long  
1-80 x 10 flat  
500 long, top



detail 4  
- 4-80 x 10 flats  
500 long  
- 1-10 mm plate  
stiffener

ALL DIMENSIONS TO BE VERIFIED ON SITE  
BEFORE MAKING ANY SHOP DRAWINGS OR  
COMMENCING ANY WORK

For package number

4	6	7	8	9	10	11	12	13	14	15	17	31	43		
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Rev	Date	Amendments
1	4.3.88	PERMIT

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CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
Engineer

LANDMARK TOWER  
CHRISTCHURCH

DRAWN: G.K.R. SCALE: 1:20  
APPROVED: R.A.P.

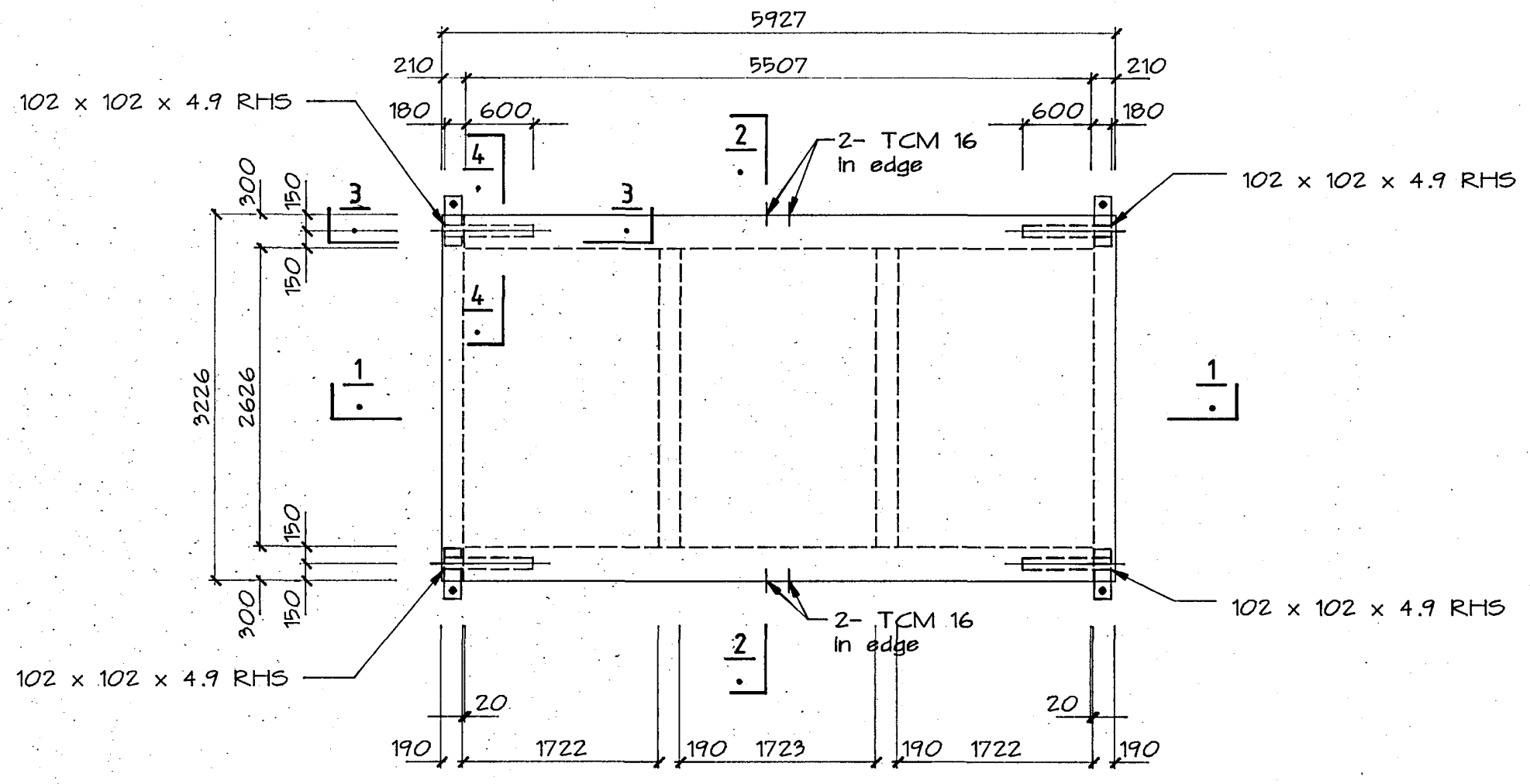
SHEET TITLE:  
PRECAST BEAM STEELWORK  
BF.1 TO 5

JOB NO: 2281	SHEET NO: S205	REV: 1
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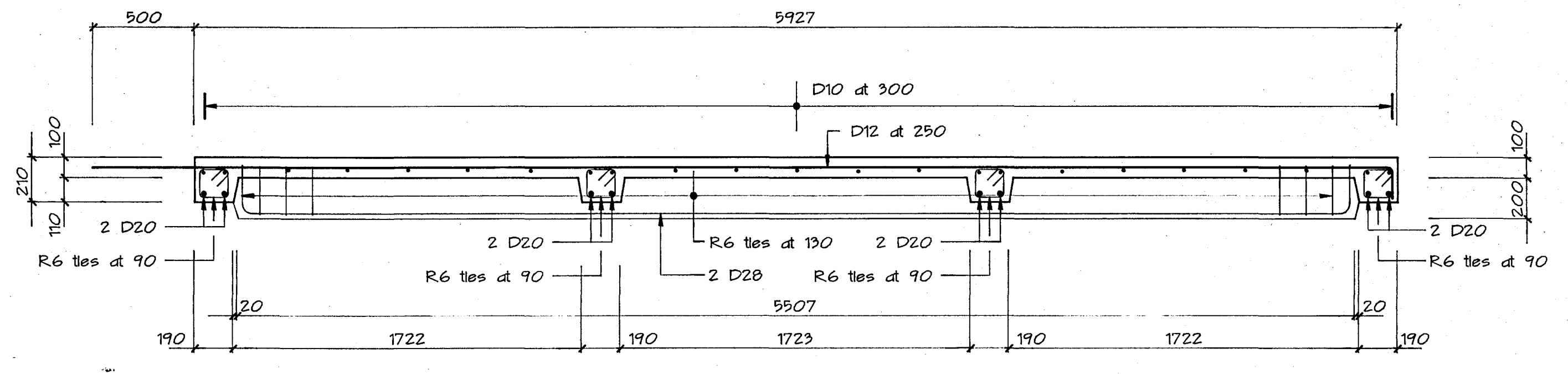
ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number															
4	6	7	8	9	10	11	12	13	14	15	17	31	45		

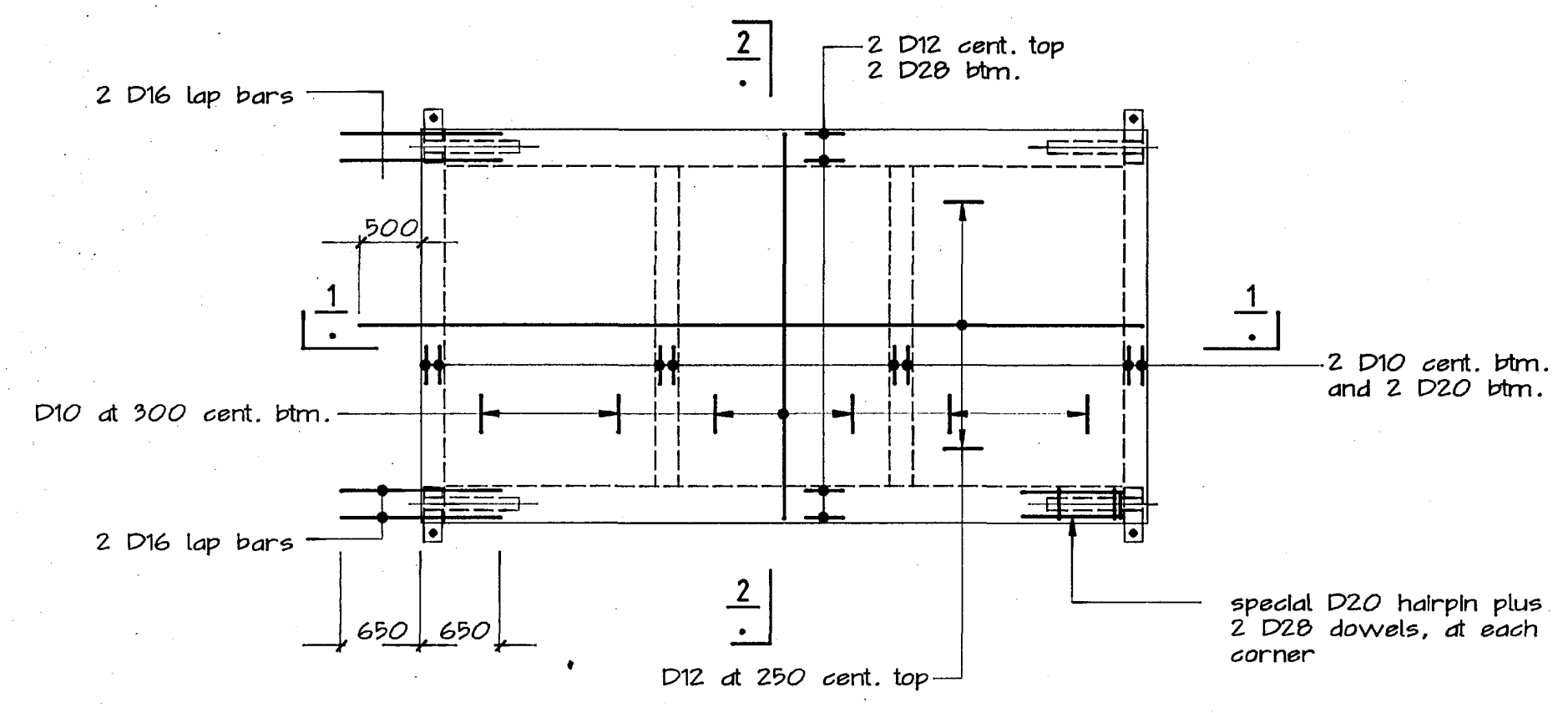
Rev.	Date	Amendment
1	4/3/88	Permit



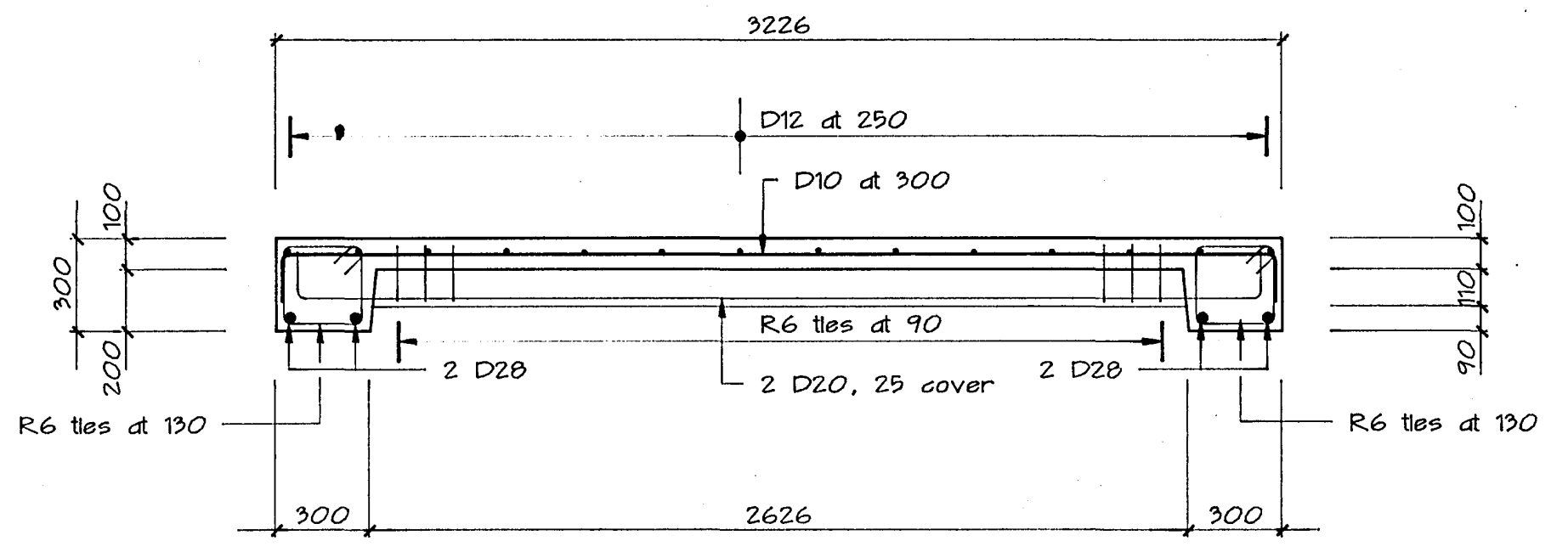
carcass plan



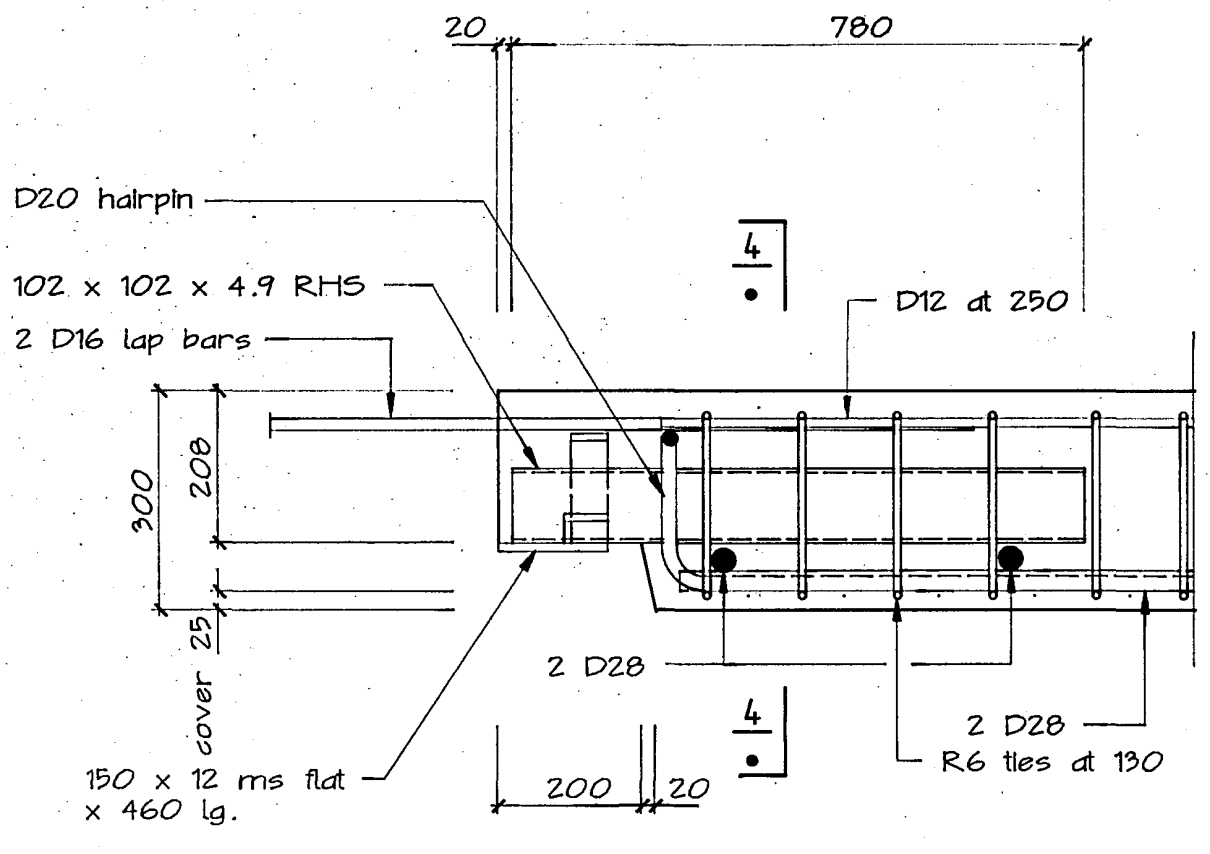
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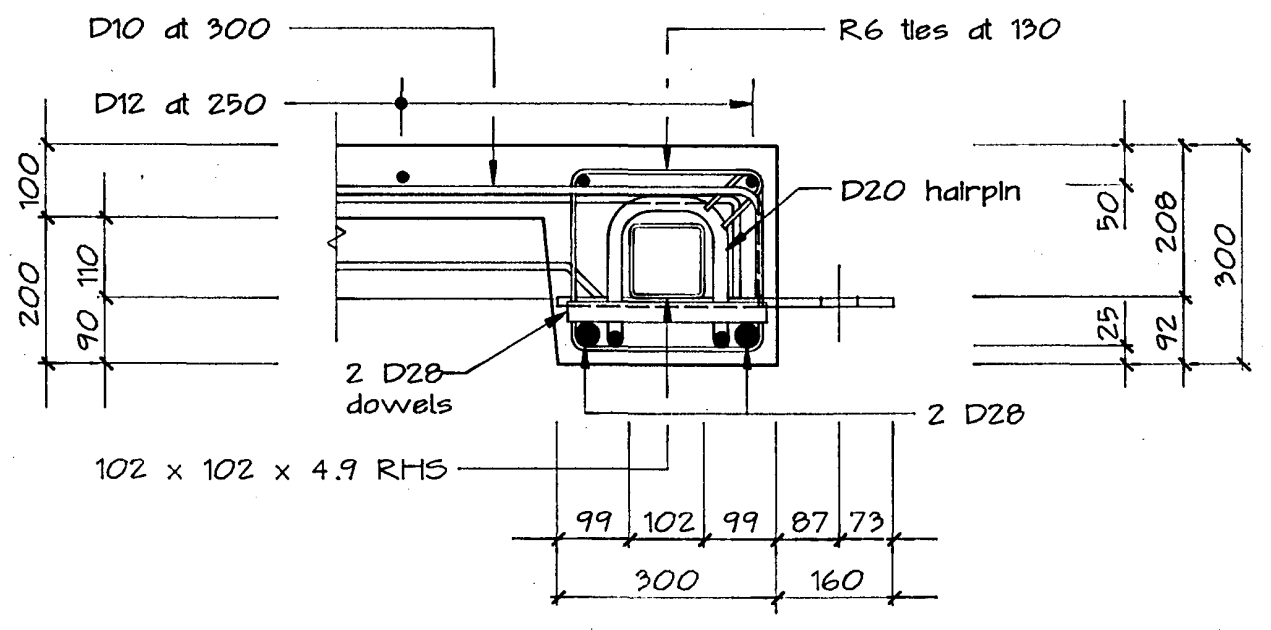
plan reinforcing



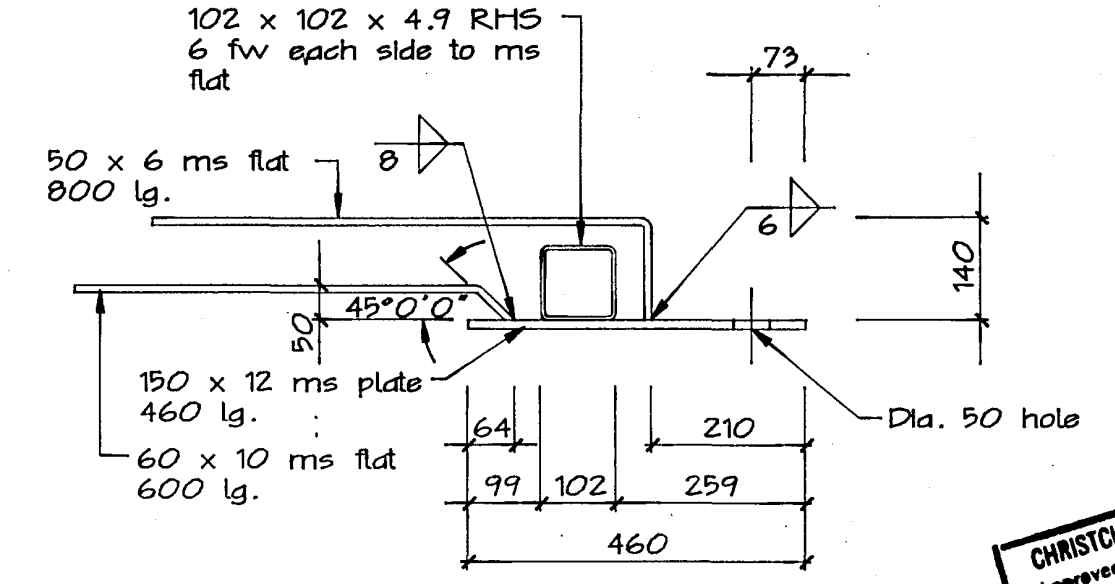
2



3



4



typical fixing bracket

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Christchurch, Wellington, New Plymouth, Auckland

LANDMARK TOWER  
CHRISTCHURCH

DRAWN: H.A.O. SCALE: 1:10, 1:20, 1:50  
APPROVED: R.A.P.

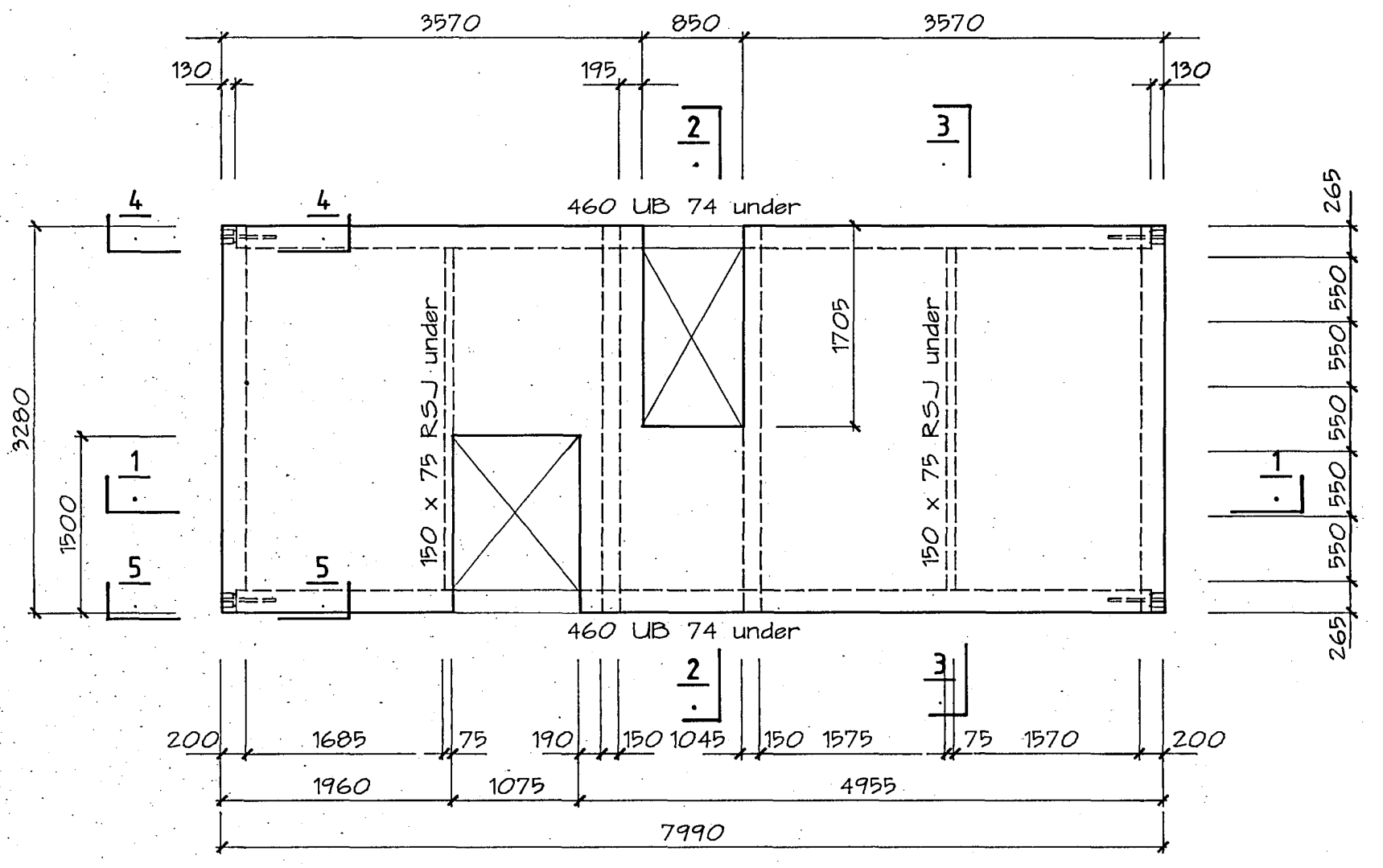
SHEET TITLE:  
PRECAST LIFT LOBBY SLAB  
PLAN & DETAILS

JOB NO: 2281 SHEET NO: S206 REV: 1

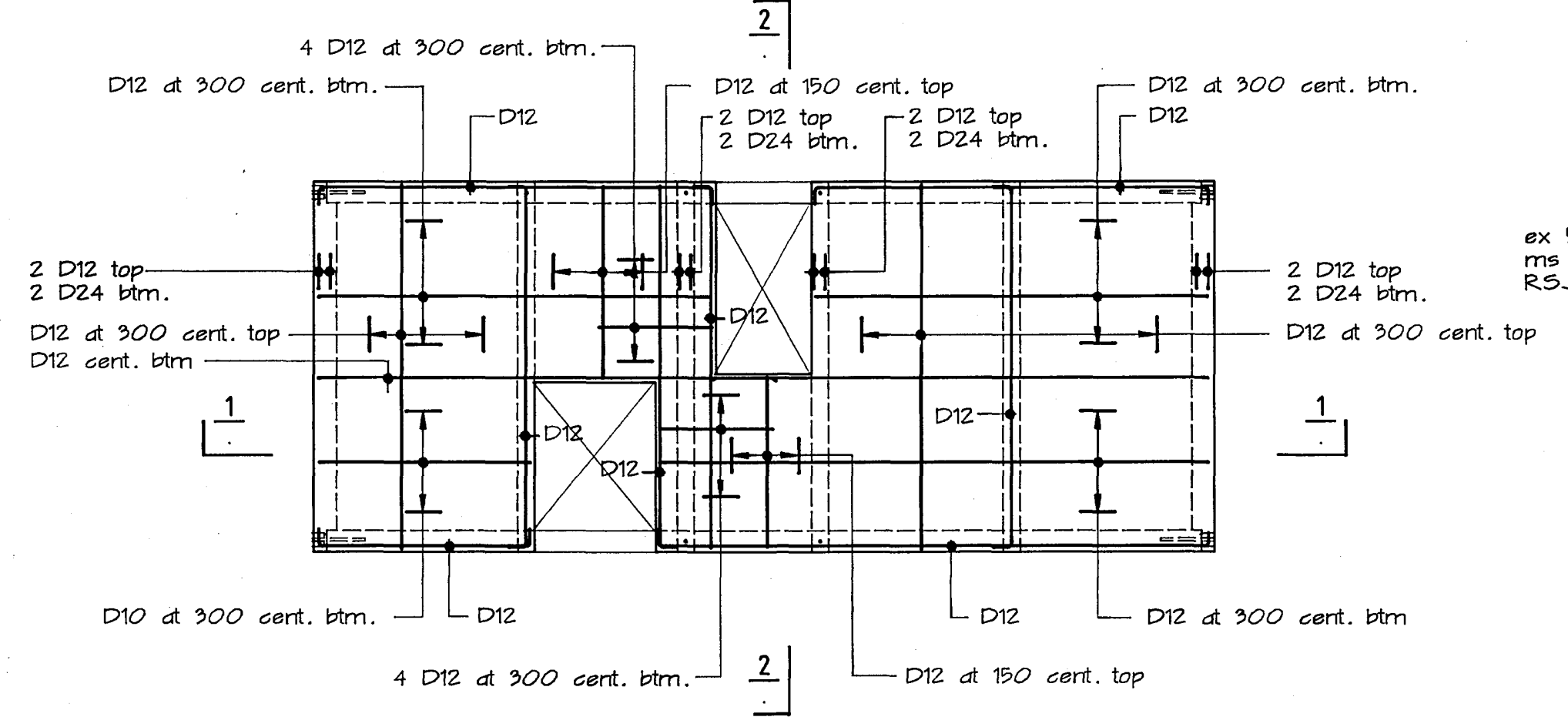
ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number															
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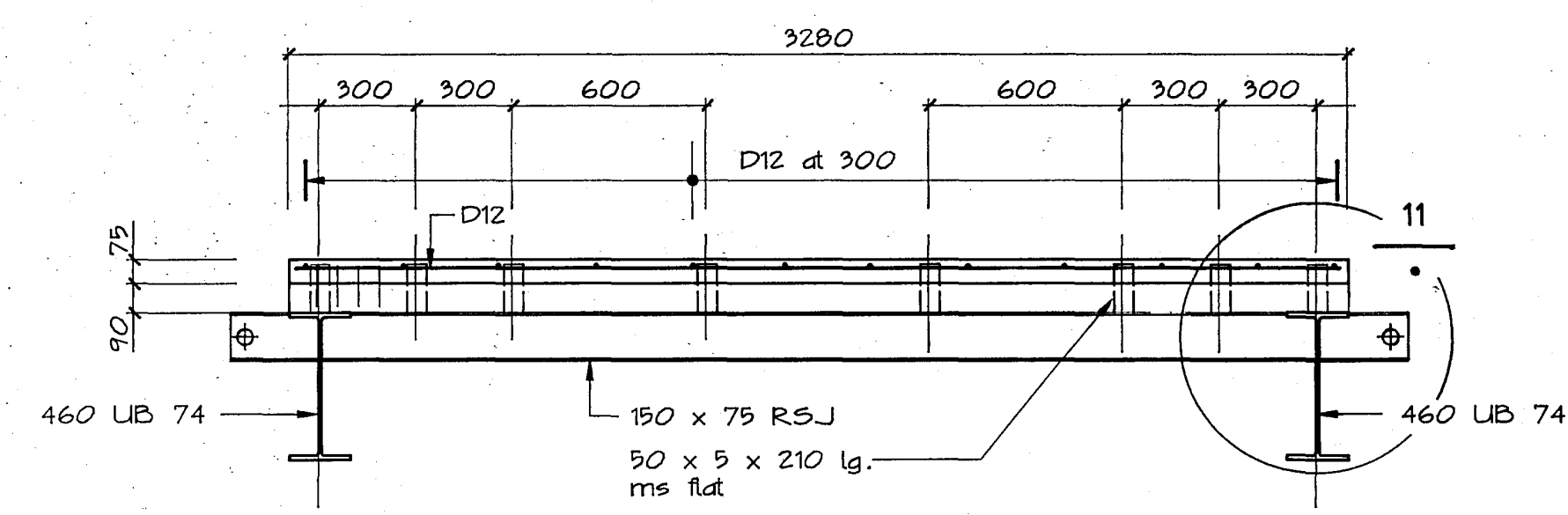
Rev.	Date	Amendment
2	4.3.88	PERMIT



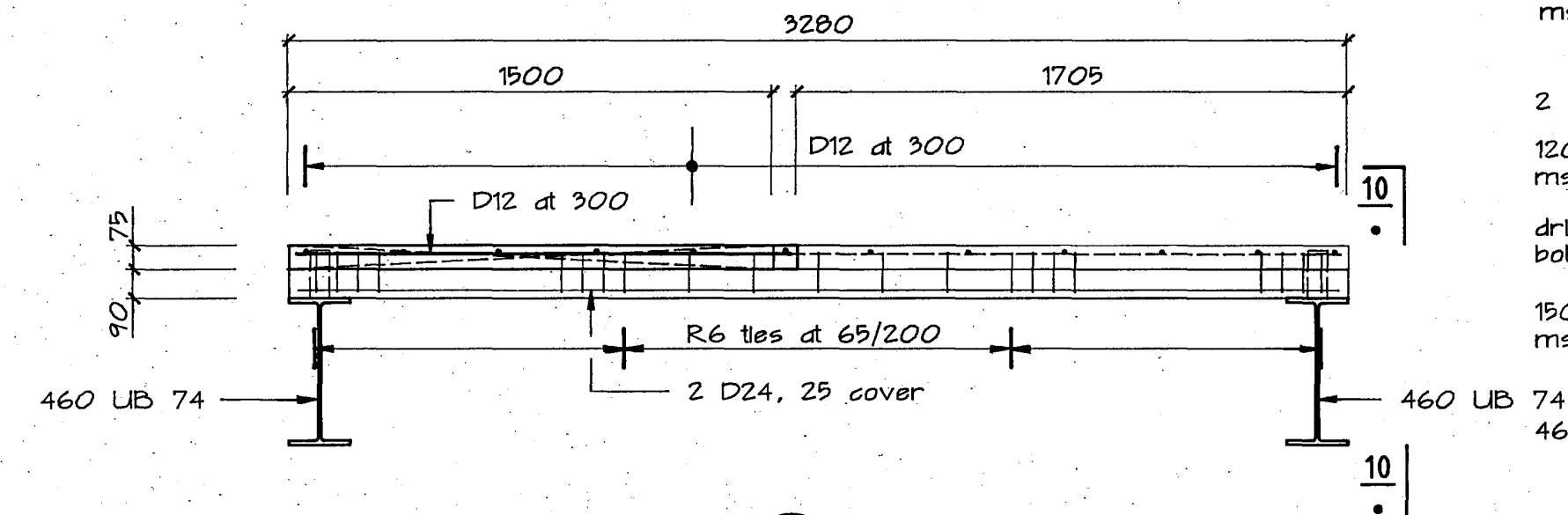
carcass plan



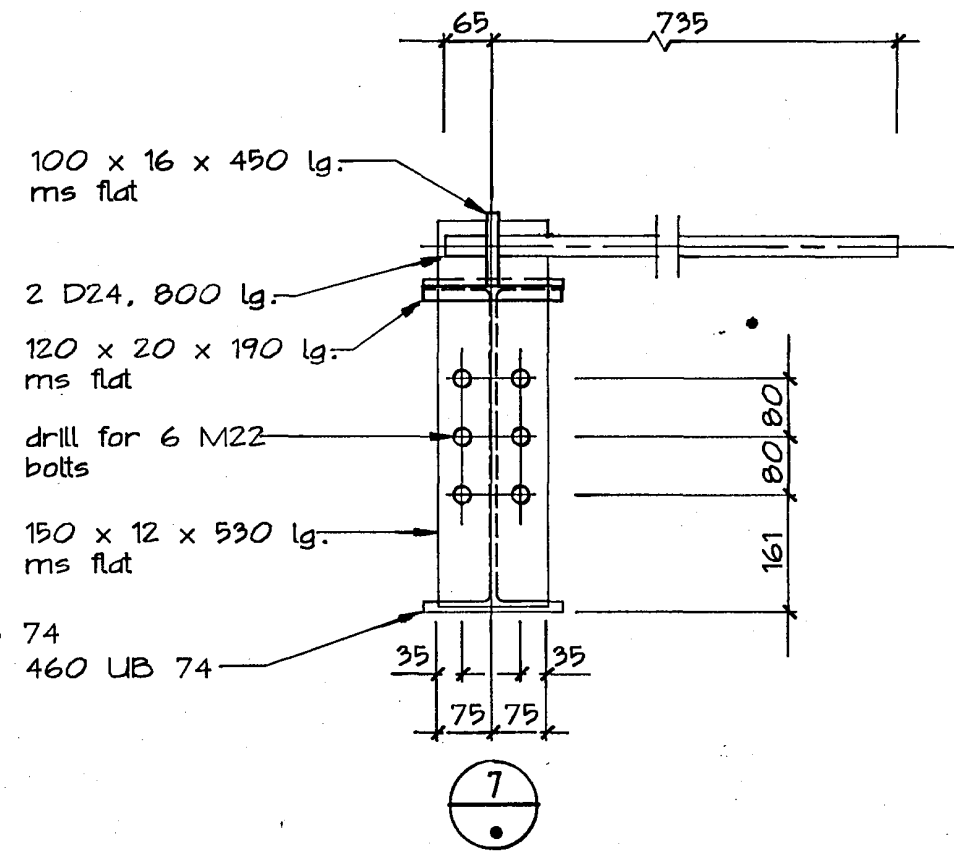
reinforcing plan



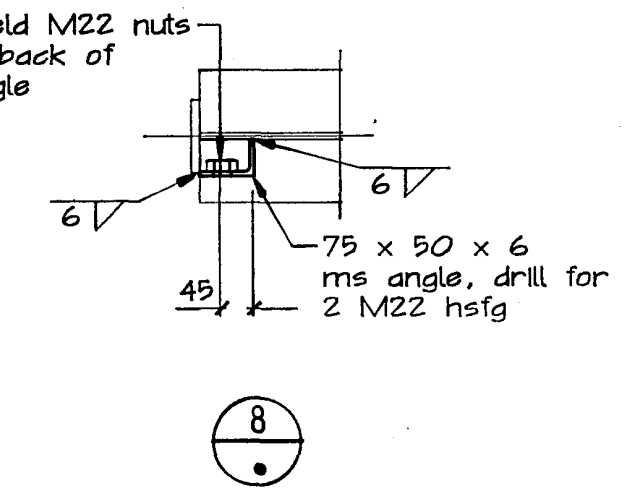
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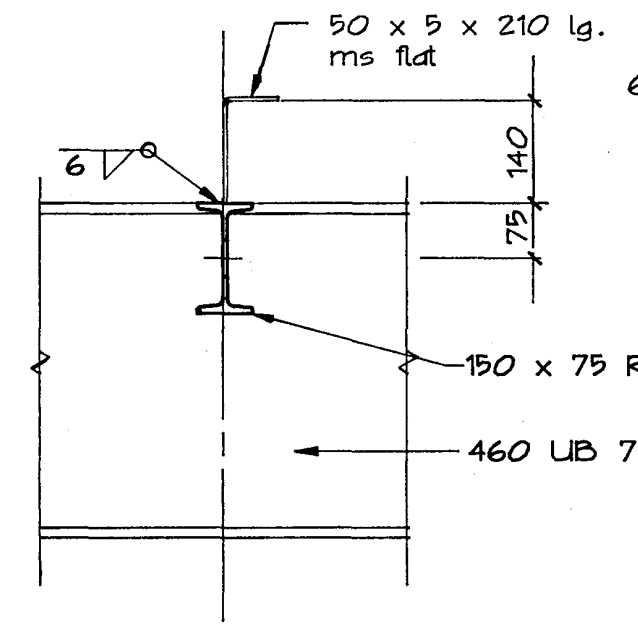
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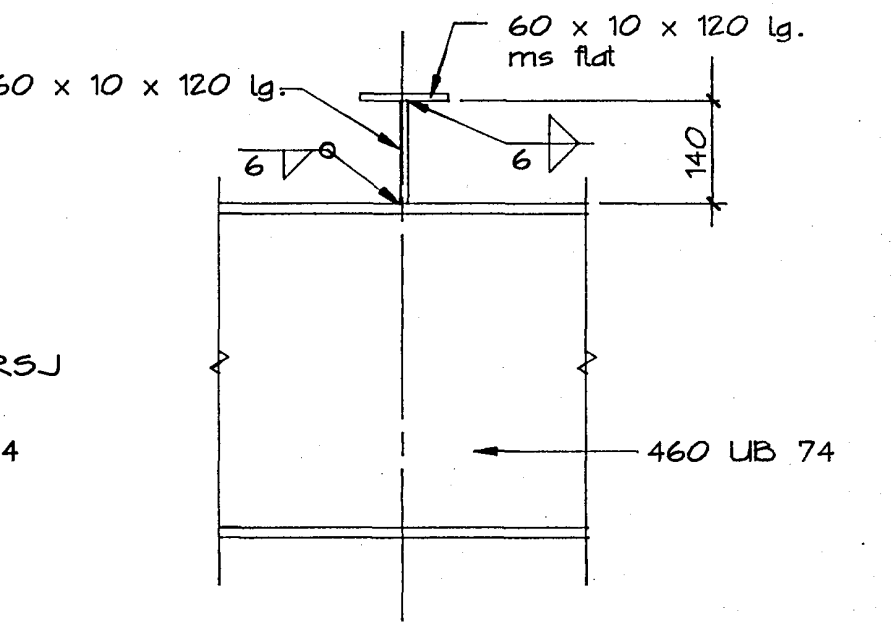
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8

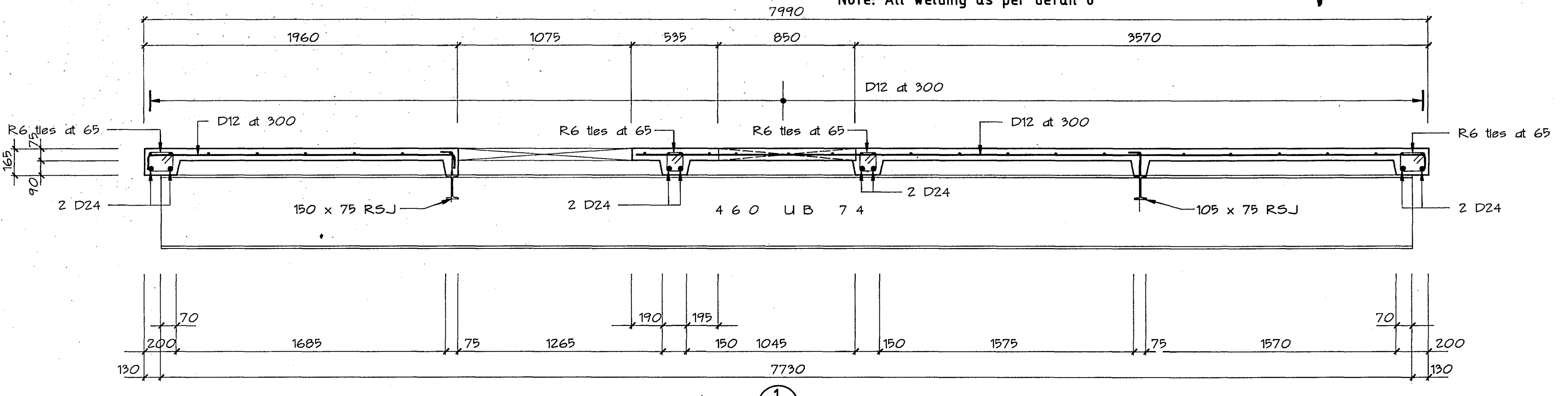


9

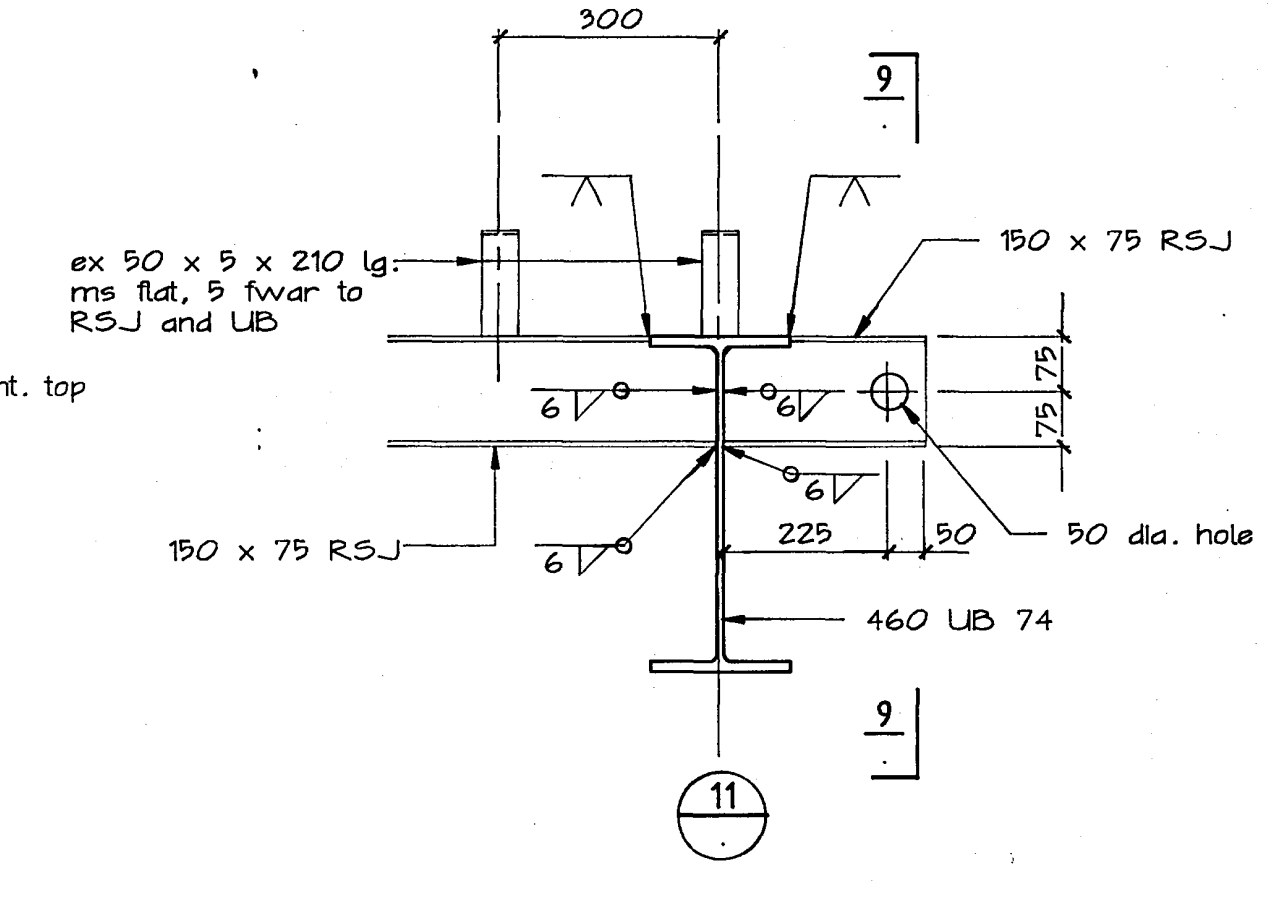


10

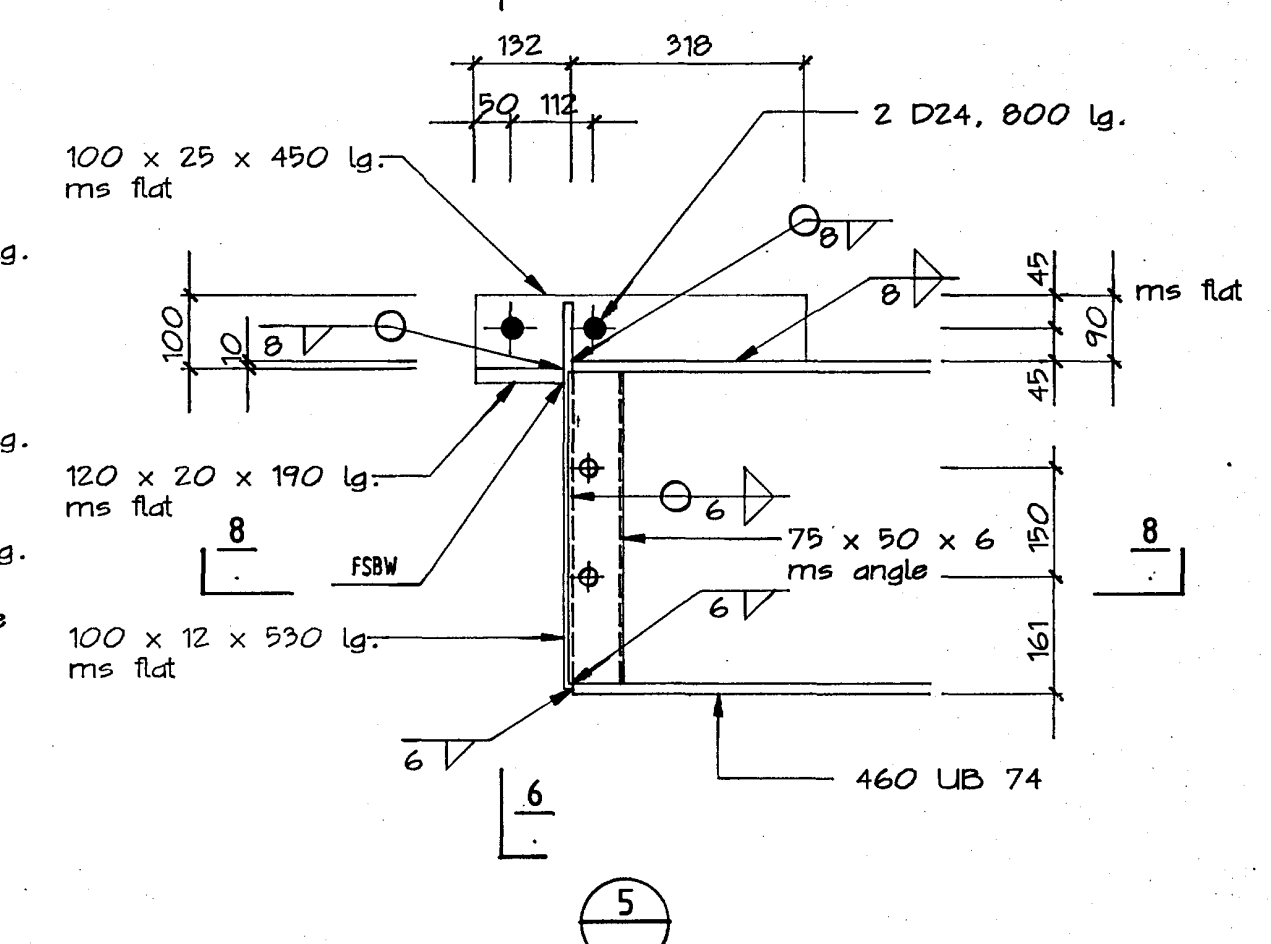
Note: All welding as per detail 6



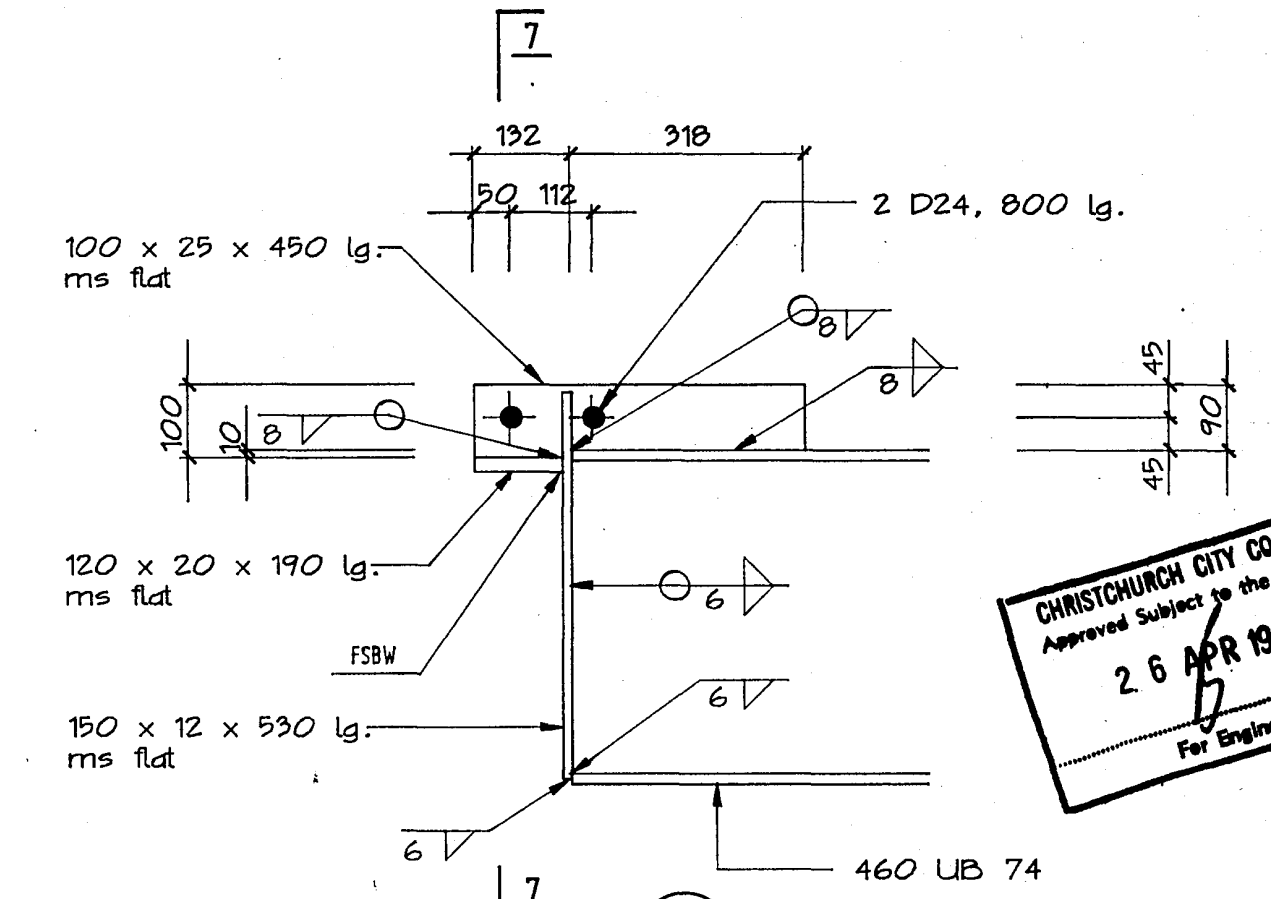
1



9



5



4

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LANDMARK TOWER  
CHRISTCHURCH

DRAWN: H.A.O SCALE:  
APPROVED: R.A.D

SHEET TITLE:  
PRECAST TOILET SLAB  
PLAN & DETAILS

JOB NO: 2281 SHEET NO: S210 REV: 2

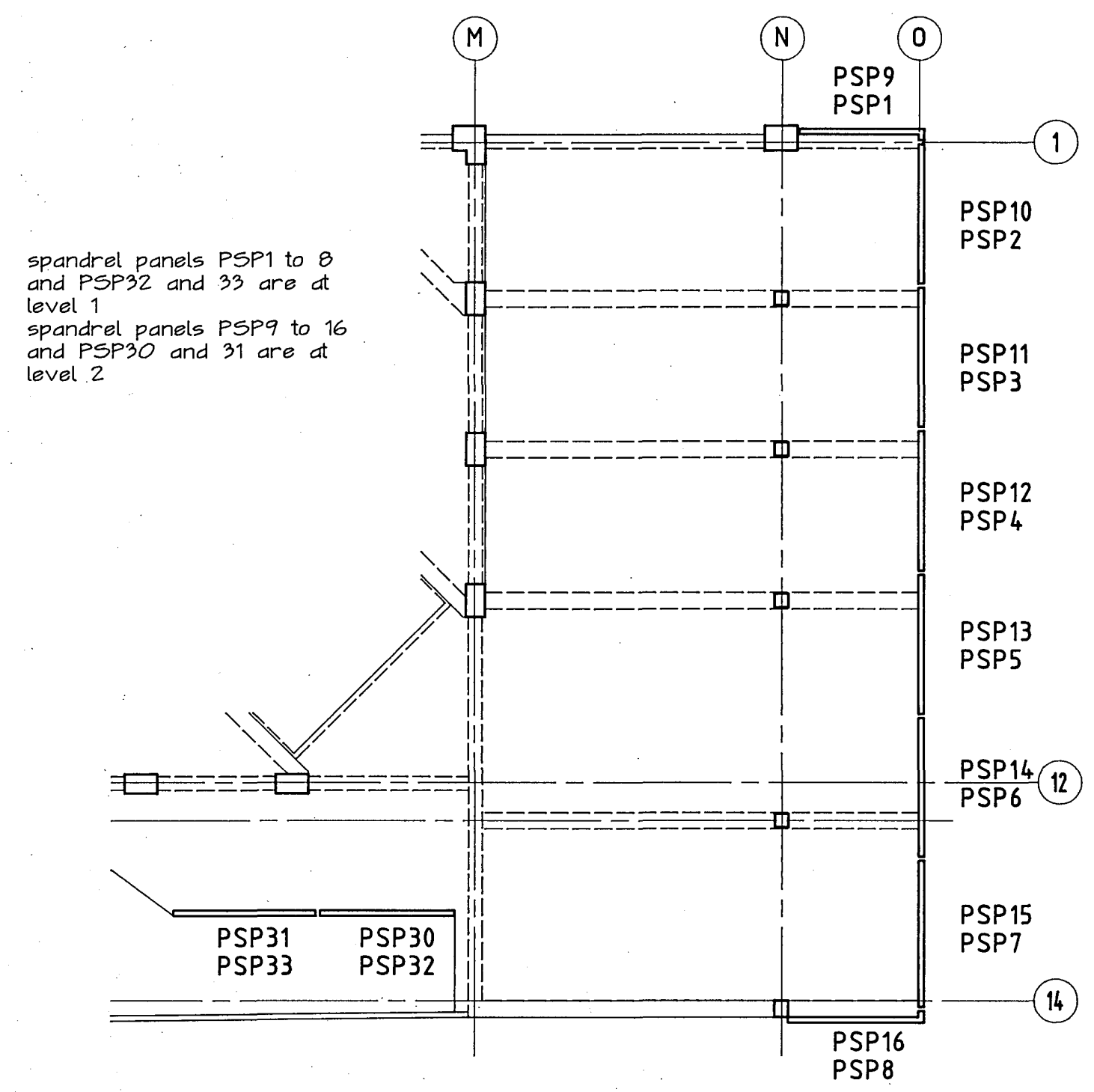
CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
For Engineer

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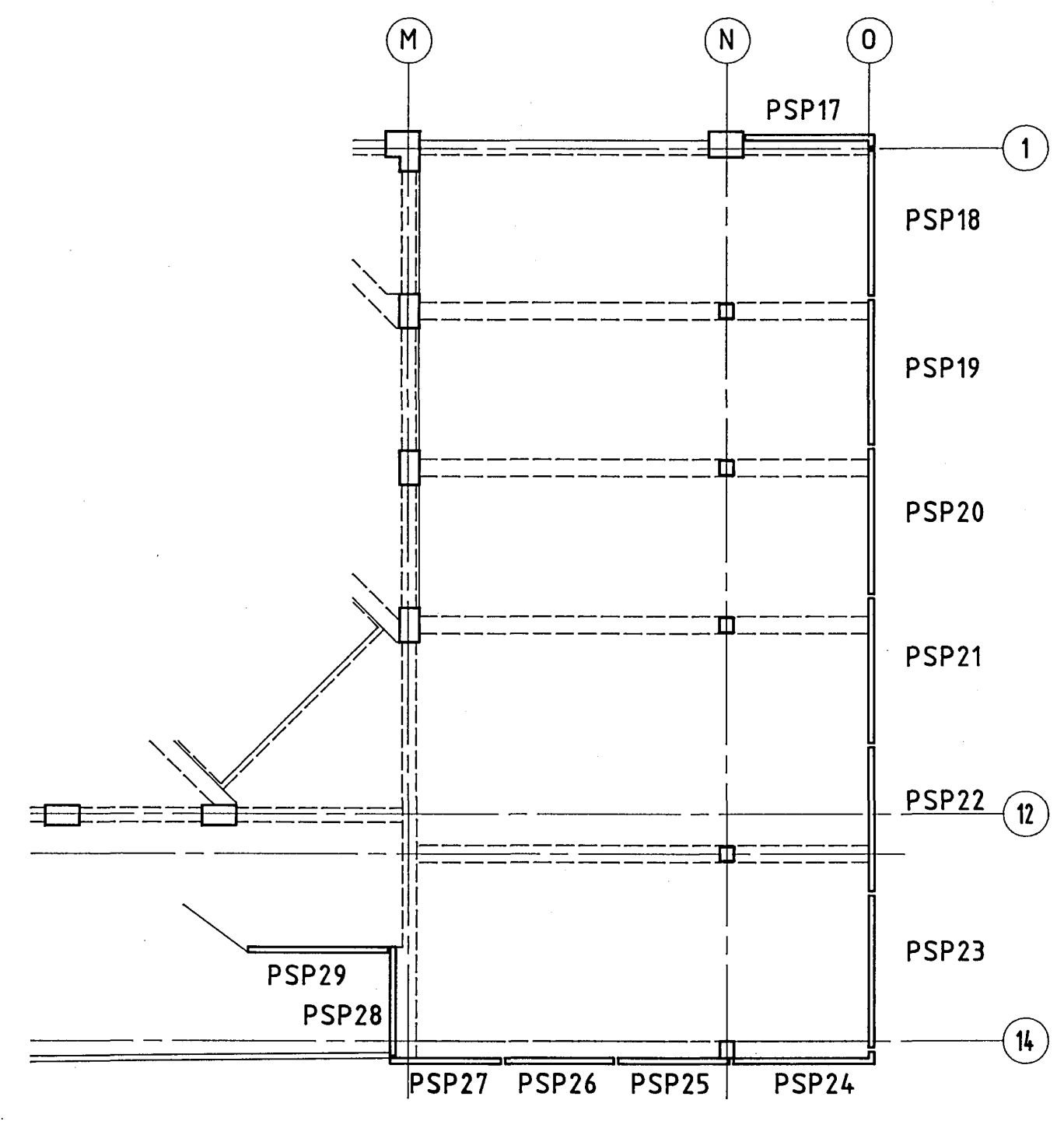
For package number

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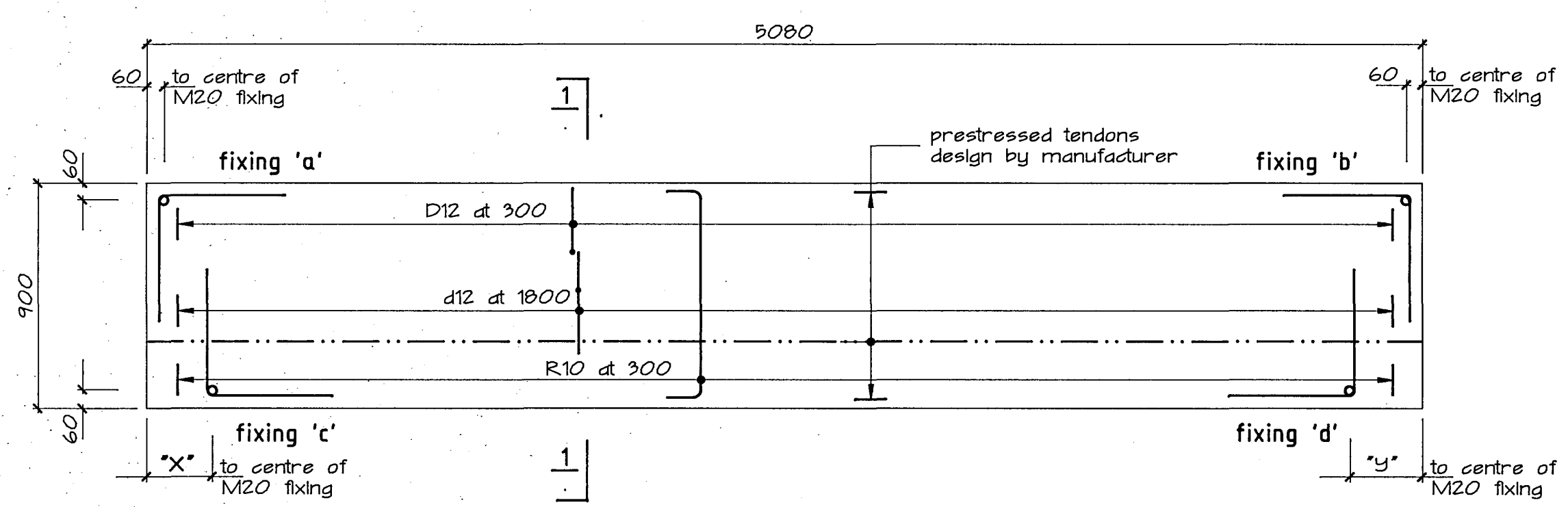
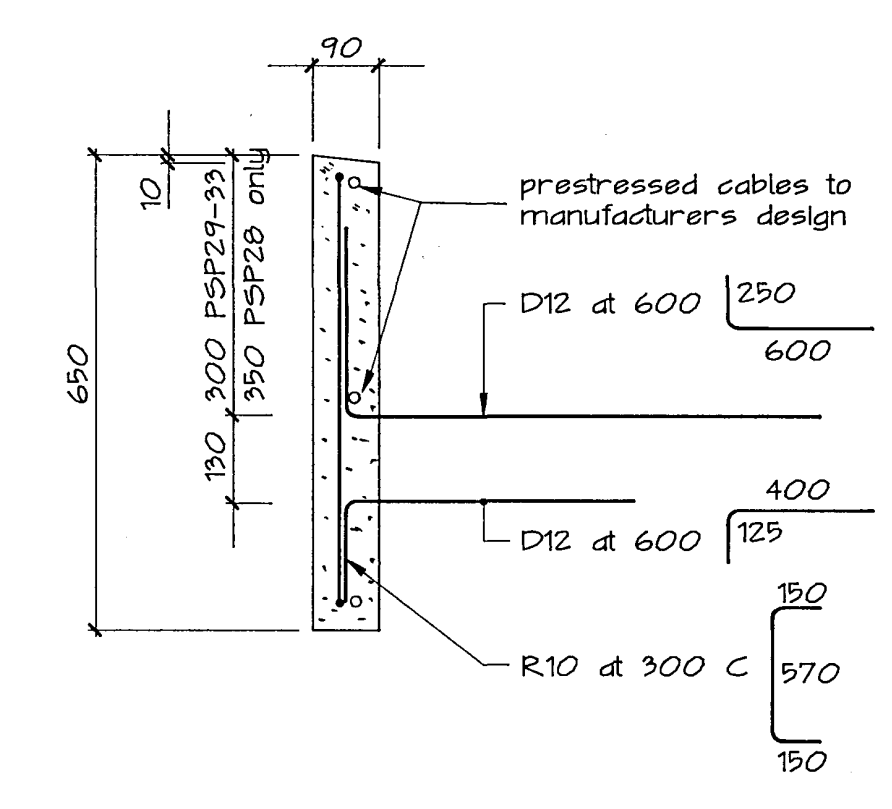
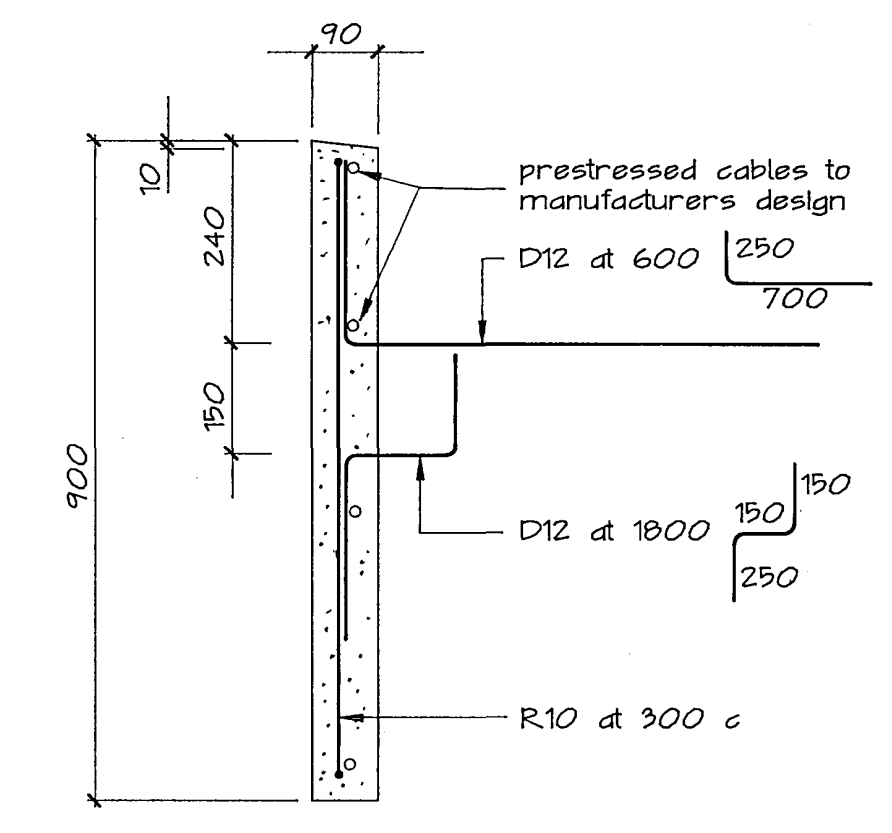
Rev.	Date	Amendment
1	4/3/00	permit



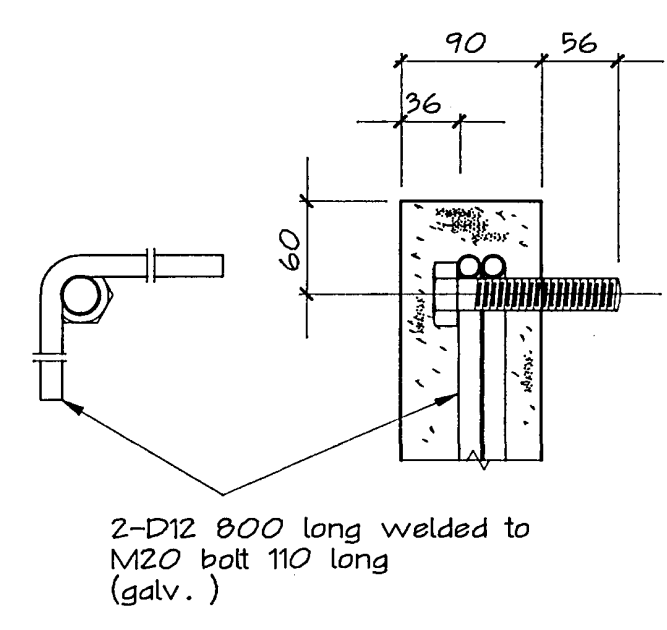
spandrel key plan levels 1 and 2



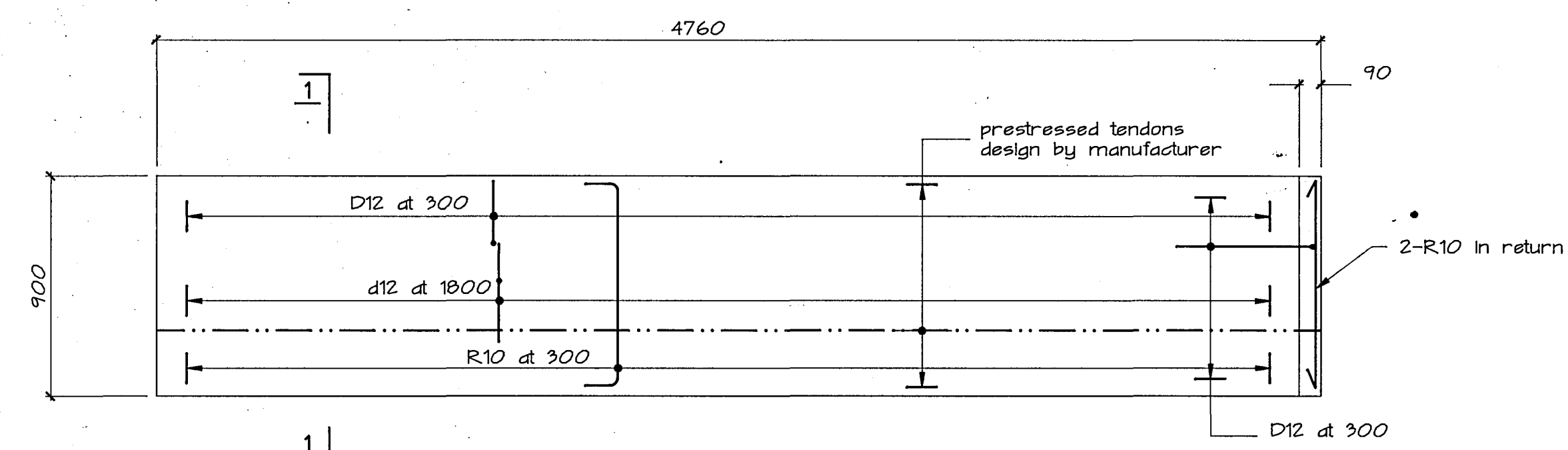
spandrel key plan level 3



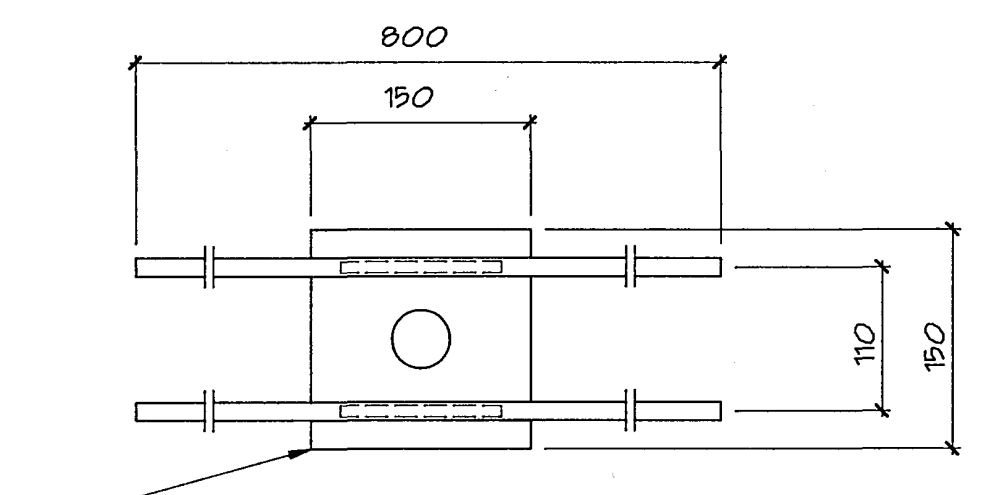
spandrel panels PSP2-7, 10-15, 18-23 and 25-27.



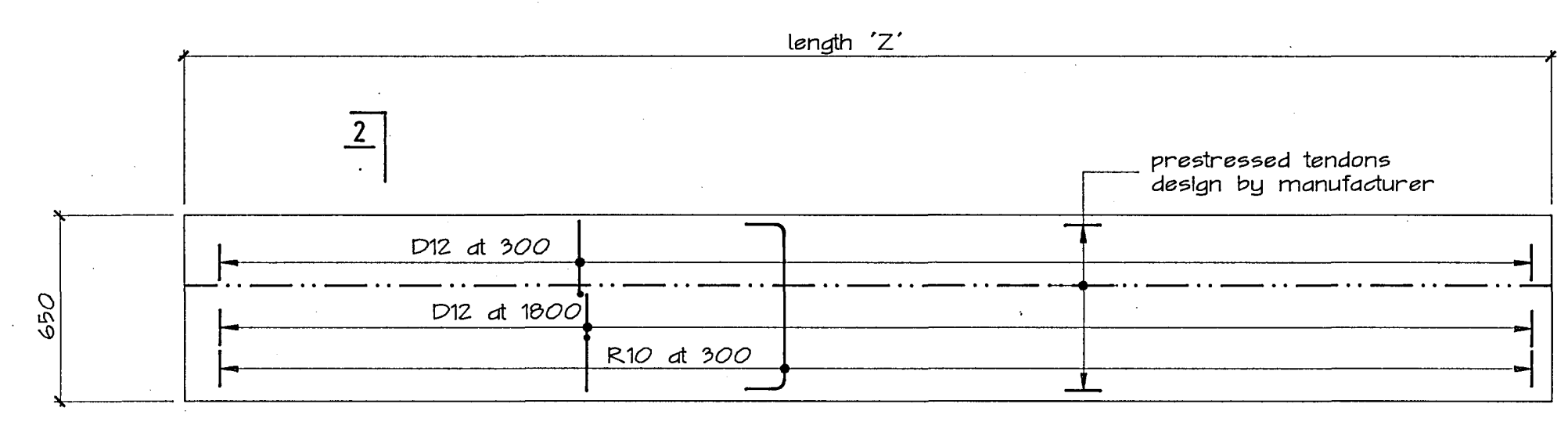
spandrel fixing assembly type SPA1



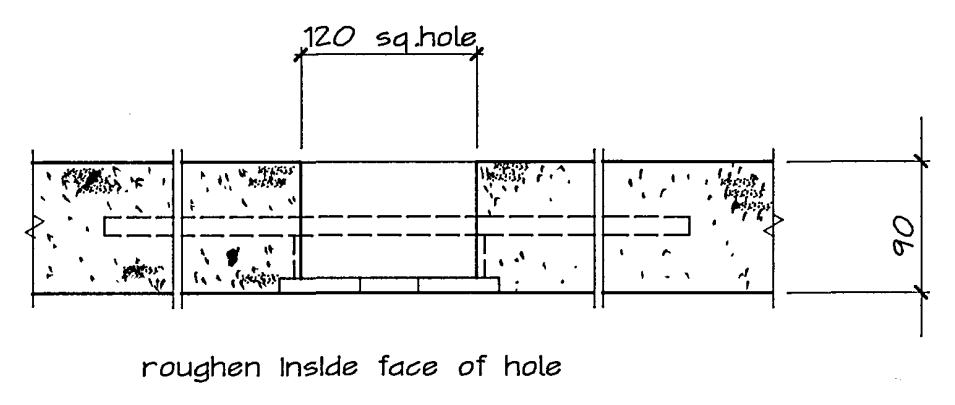
spandrel panel PSP1,8,9,16,17 and 24



spandrel fixing assembly type SPA2



spandrel panels PSP28 to 33



spandrel fixing assembly type SPA2

NOTE: at ends of spandrels carefully gas gauge back tendons at least 10mm. open out rebate at tendon location to 16mm. drill and remove metal splatter, wire brush clean and fill with plaster grade epoxy mortar.

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26 APR 1988  
For Engineer

DRAWN: G.A.E. SCALE: 1:200 1:20  
APPROVED:

SHEET TITLE:  
PRECAST SPANDREL PANELS  
LEVELS 1,2 and 3  
KEY PLAN, ELEVATIONS AND DETAILS

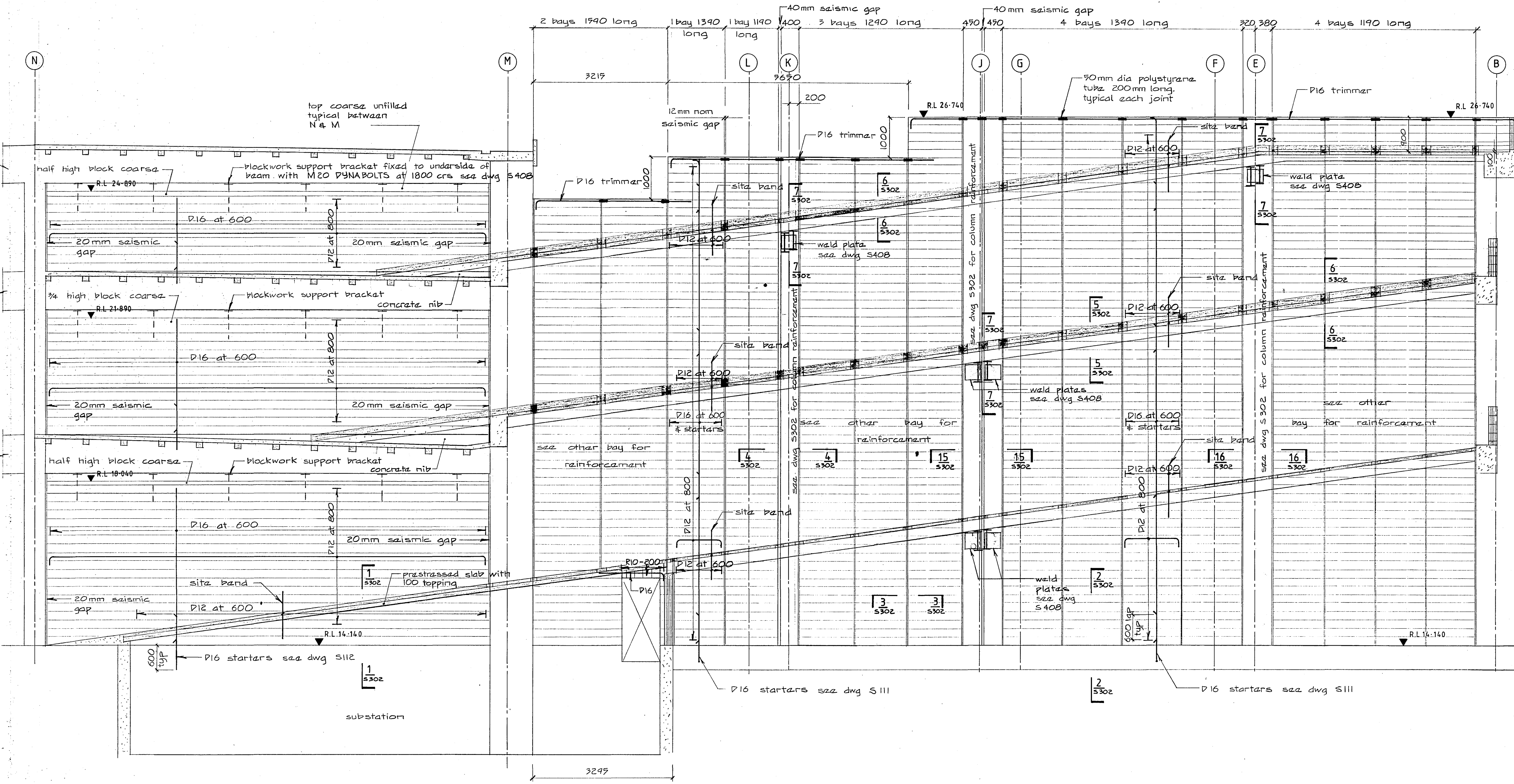
JOB NO: 2281 SHEET NO: S220 REV: 1

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

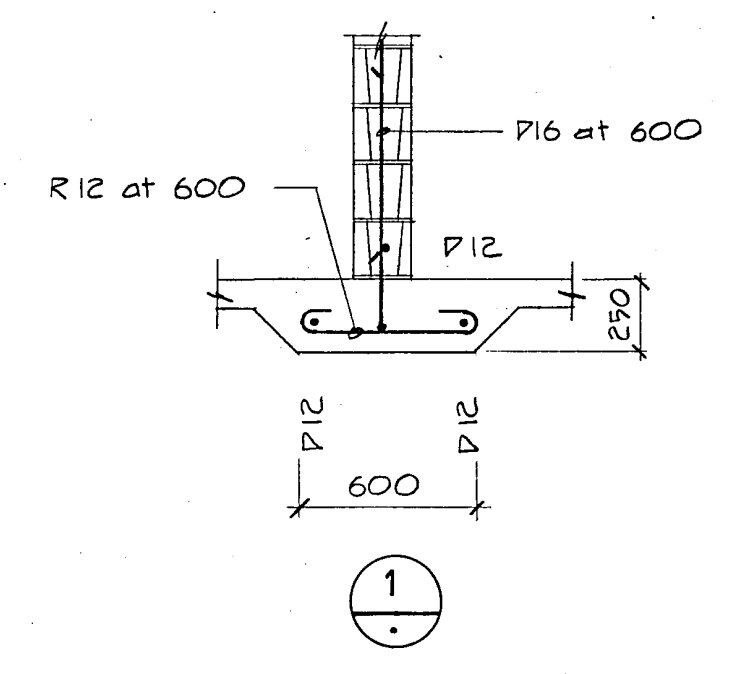
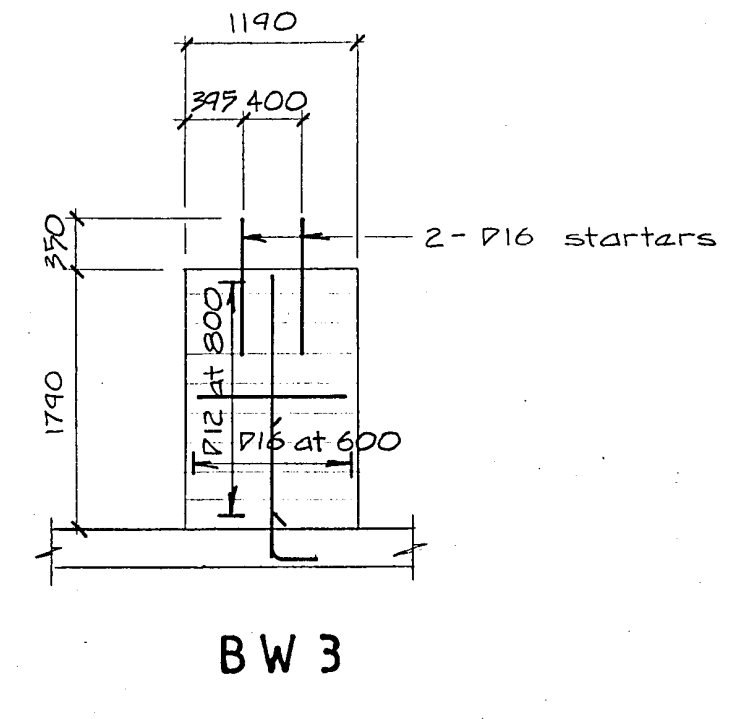
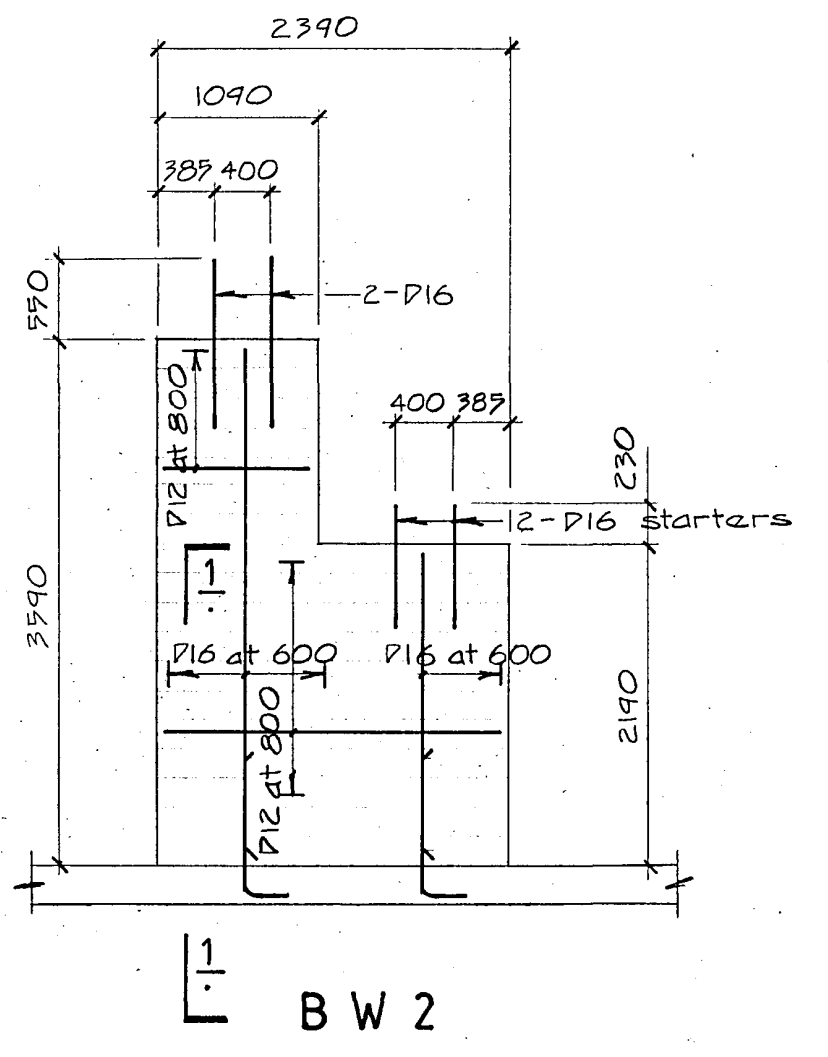
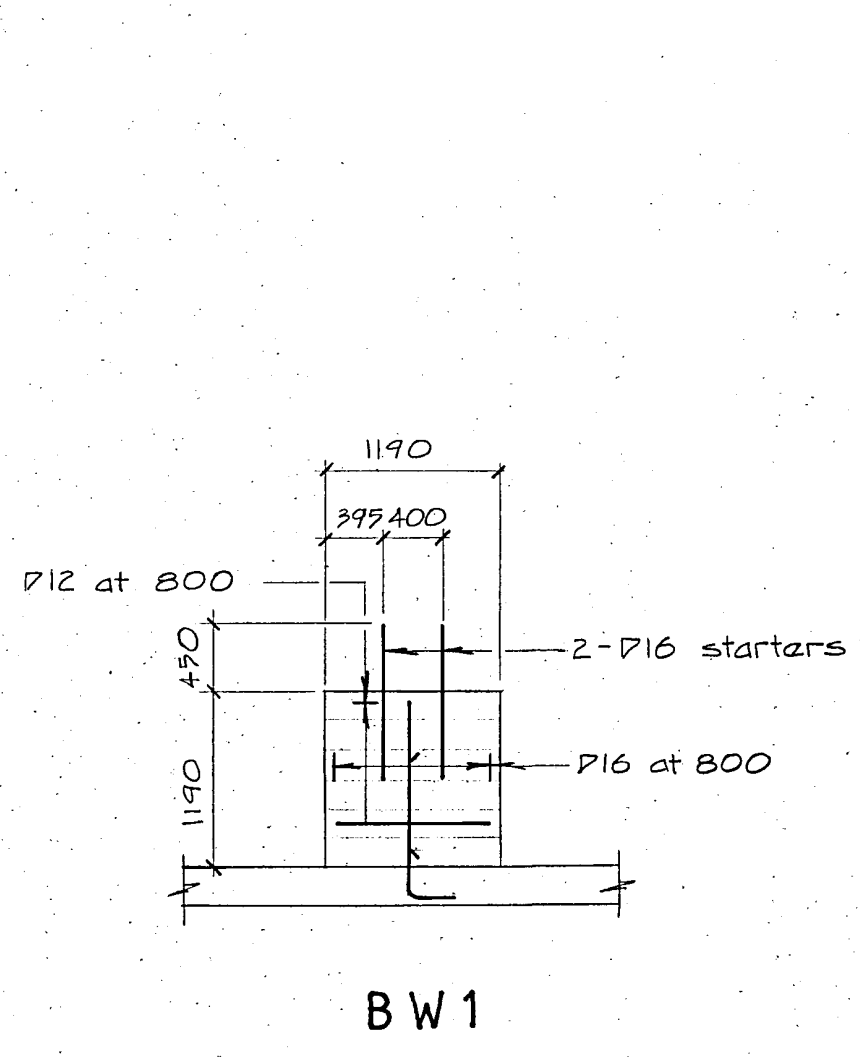
4	6	7	8	9	10	11	12	13	14	15	17	18	19
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Rev	Date	Amendment
1	4-3-88	Permit



blockwall near line 14

**NOTE**  
 all blockwork shall be solid filled unless shown otherwise.



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 26 APR 1988  
 Engineer

DRAWN: J.W. SCALE: 1:50  
 APPROVED: R.A.P.

SHEET TITLE:  
**BLOCKWALL ELEVATIONS**  
 LINE 14, BW 1, BW 2, BW 3, BW 4

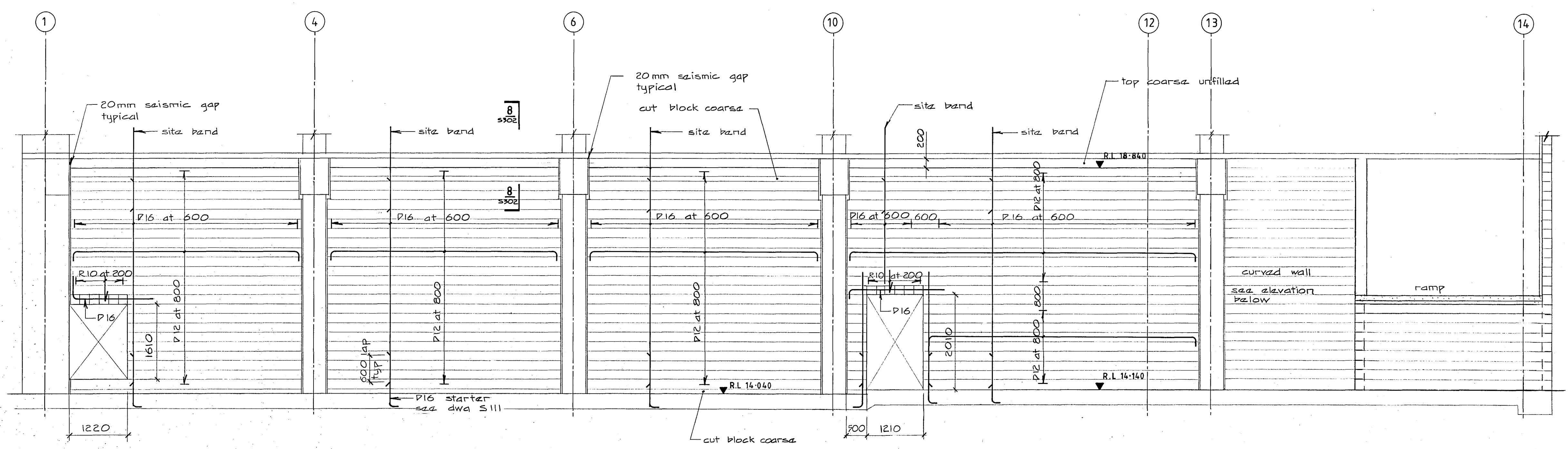
JOB NO: 2281 SHEET NO: S 300 REV: 1

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

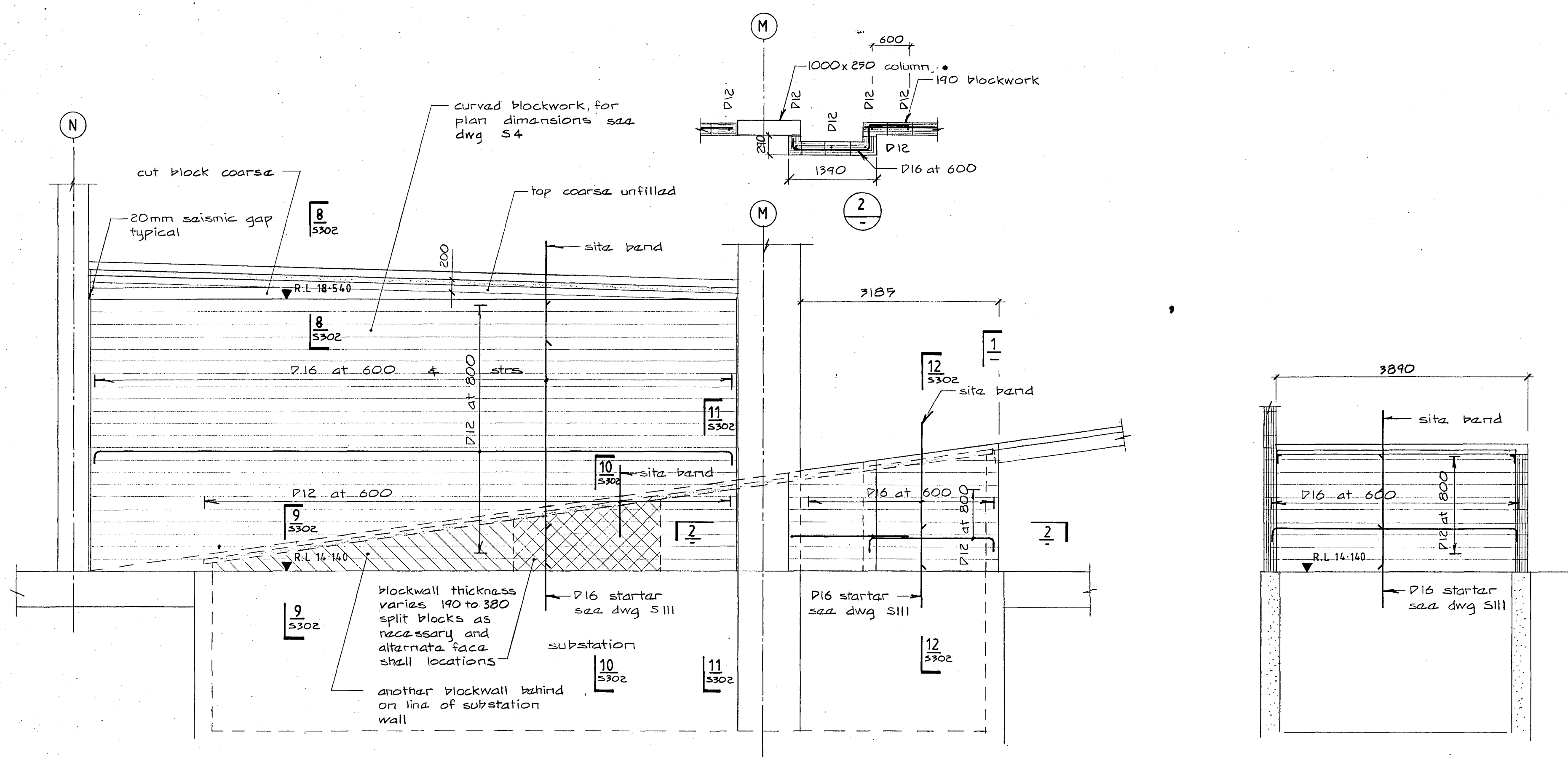
For package number

4	6	7	8	9	10	11	12	13	14	15	17	18	19
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blockwall on line N



blockwall between line 13 & 14

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CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Law  
26 APR 1988  
For Engineer

DRAWN: J.W. SCALE: 1:50  
APPROVED: R.A.P.

SHEET TITLE:  
BLOCKWALL ELEVATIONS  
LINE N & BETWEEN LINES 13 & 14

JOB NO: 2281	SHEET NO: S 301	REV: 1
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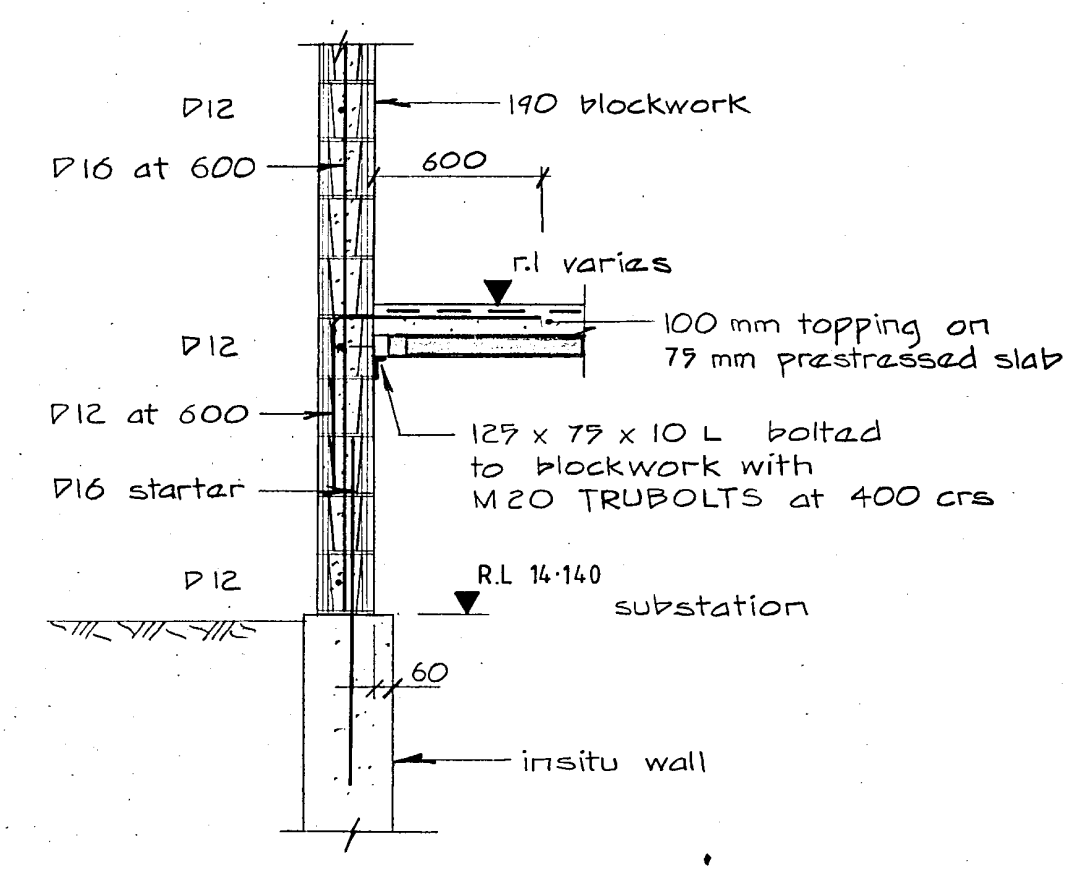


ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

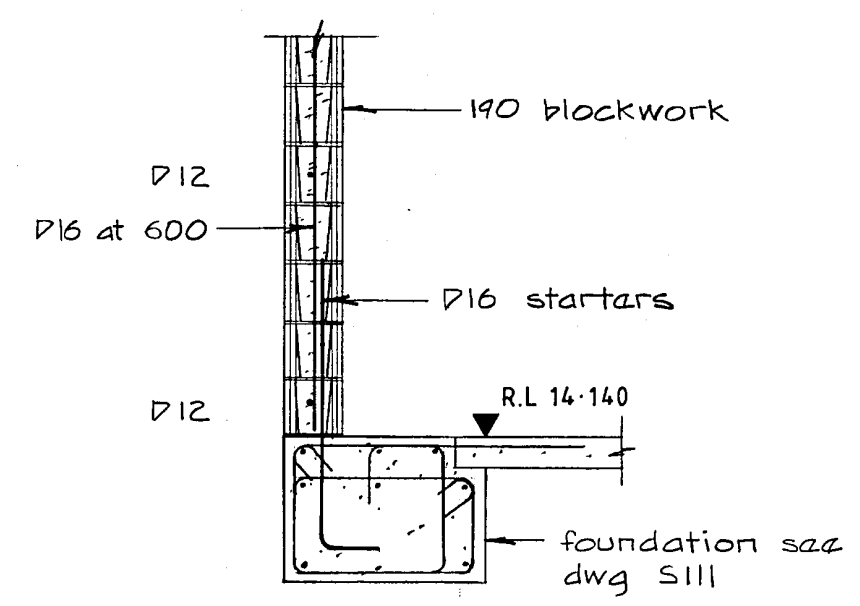
For package number

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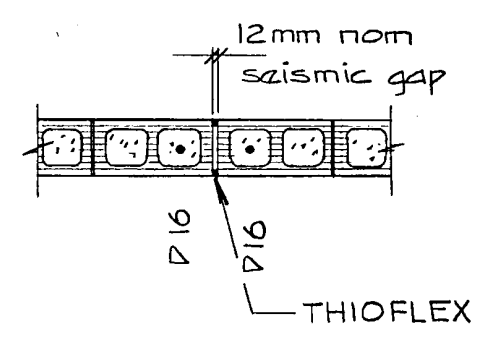
Rev	Date	Amendment
1	4-3-88	Permit



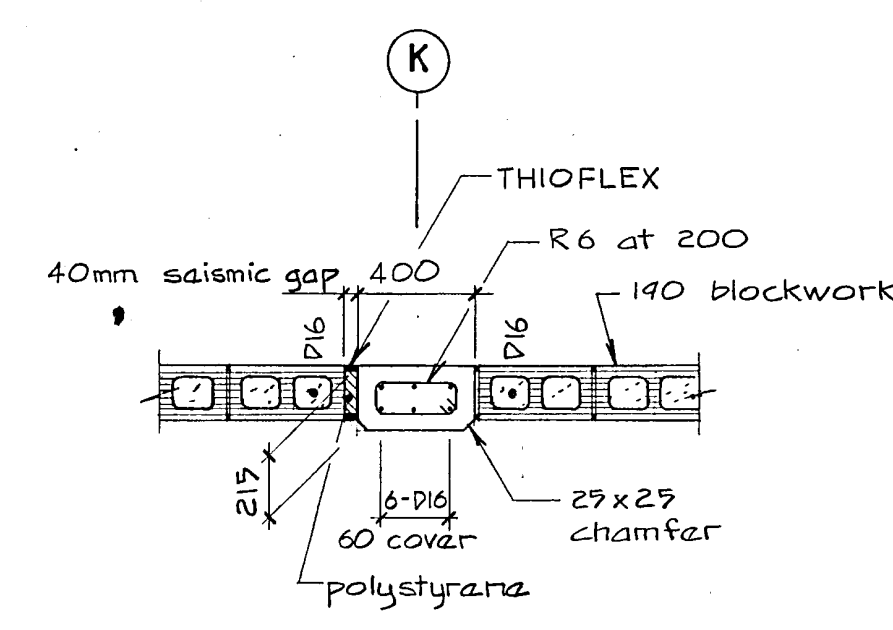
1  
S300



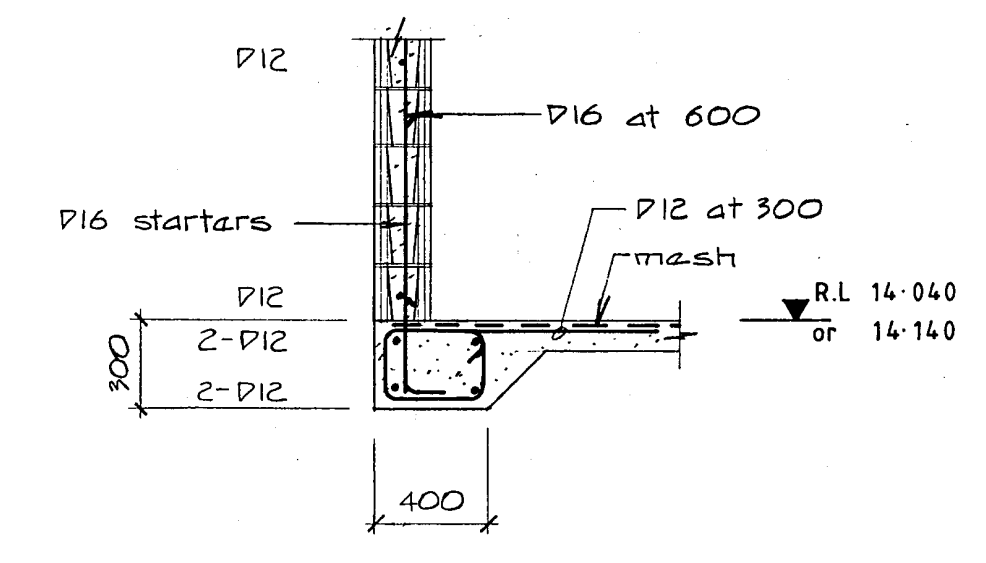
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S300



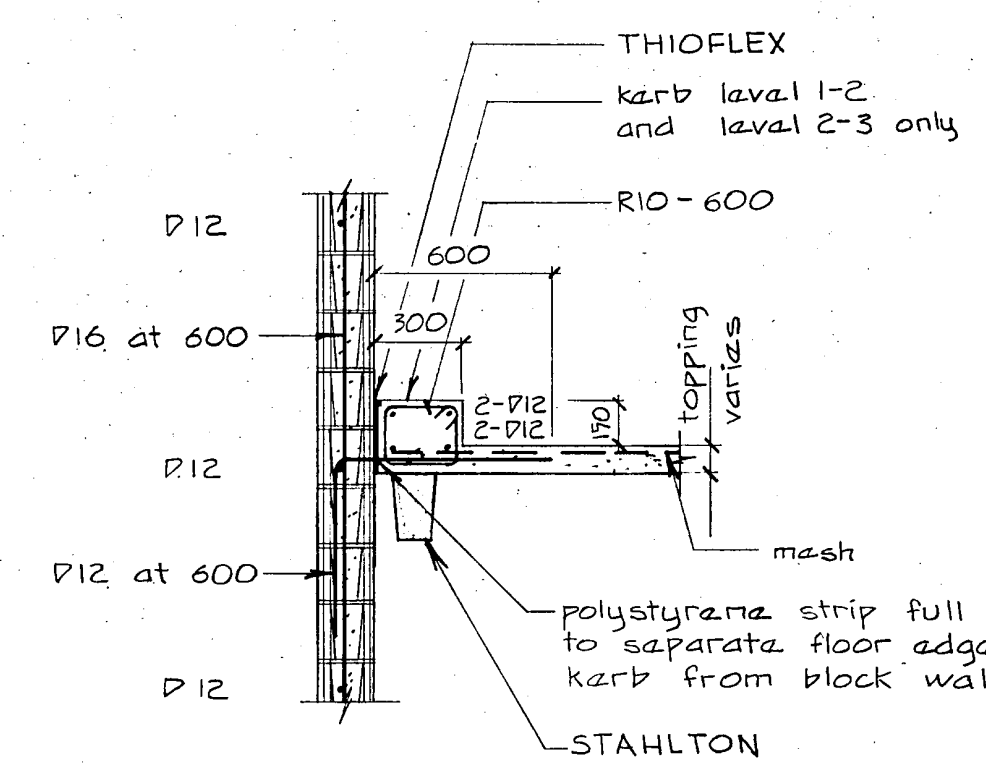
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S300



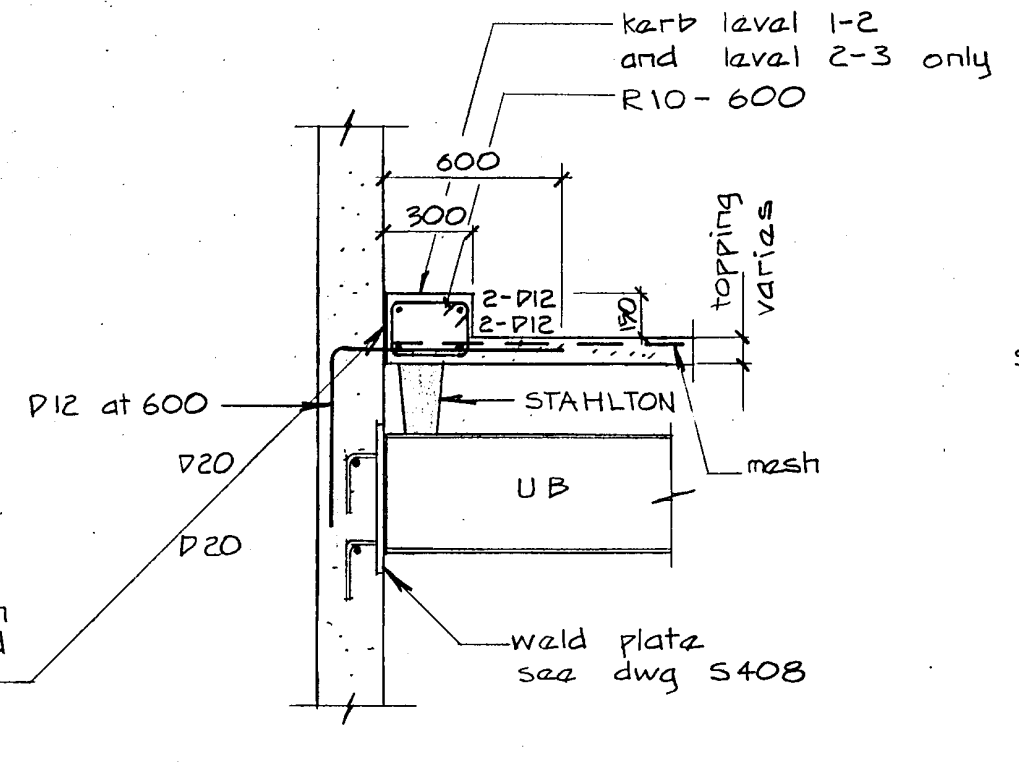
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S300



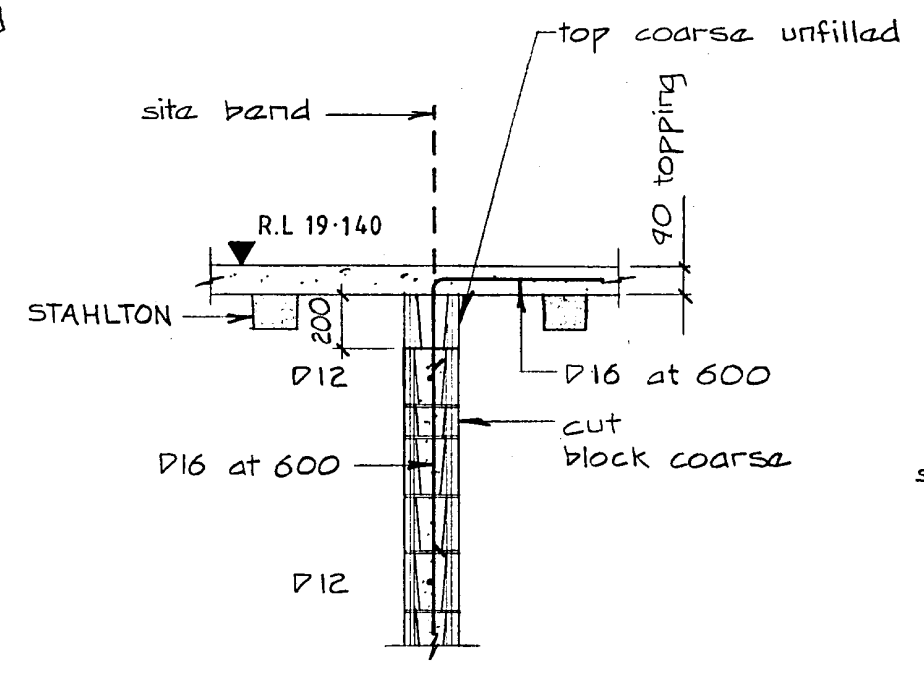
5  
S300



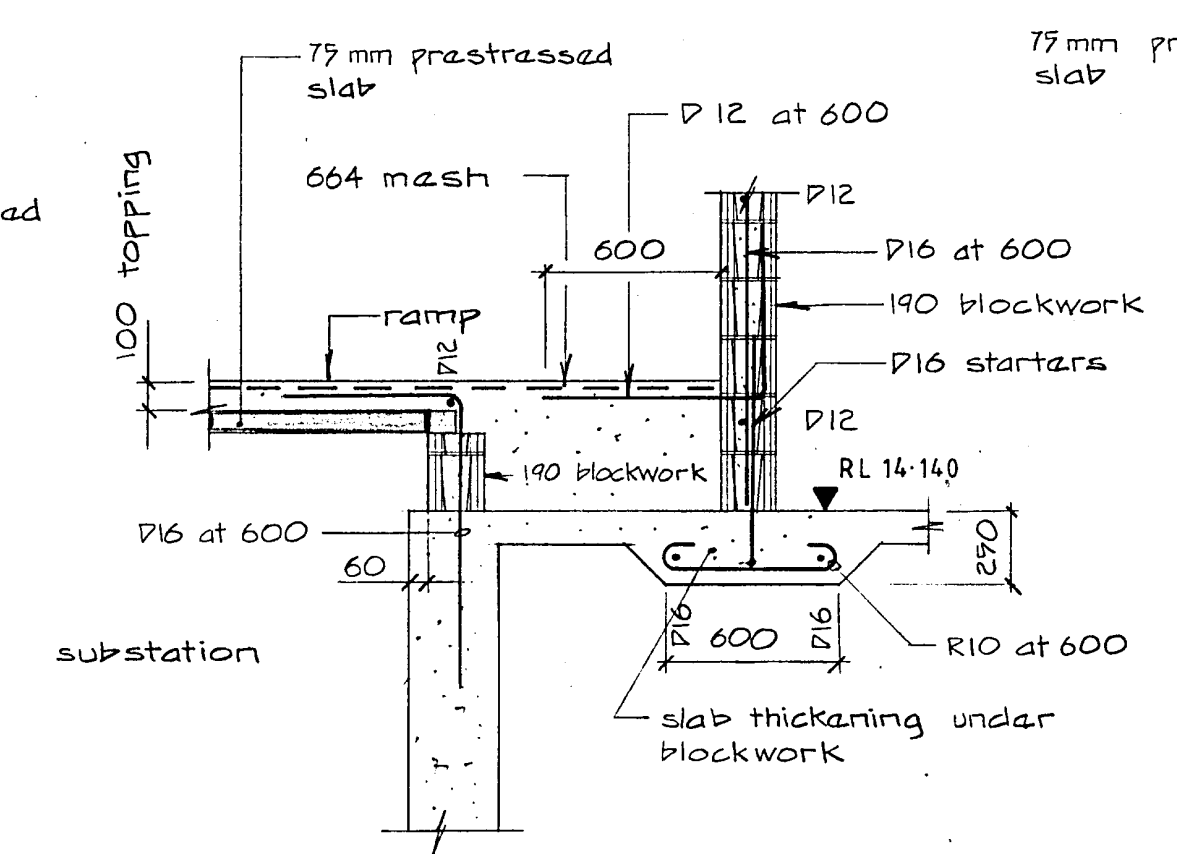
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S300



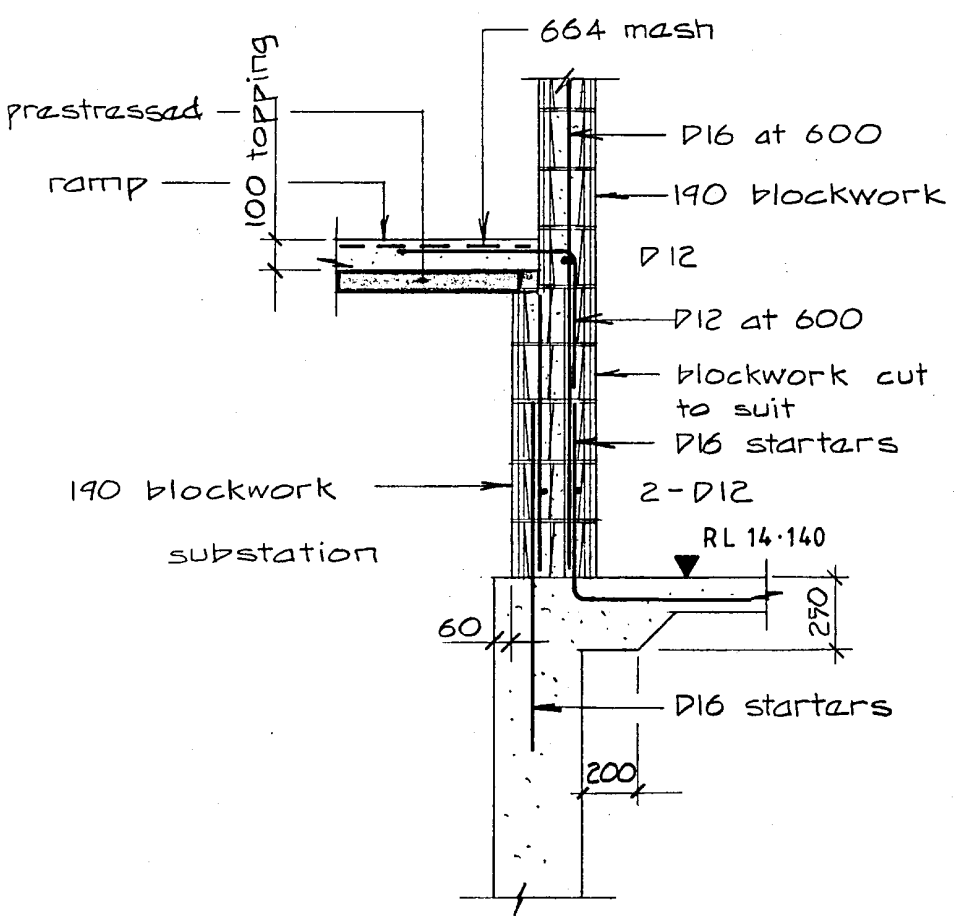
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S300



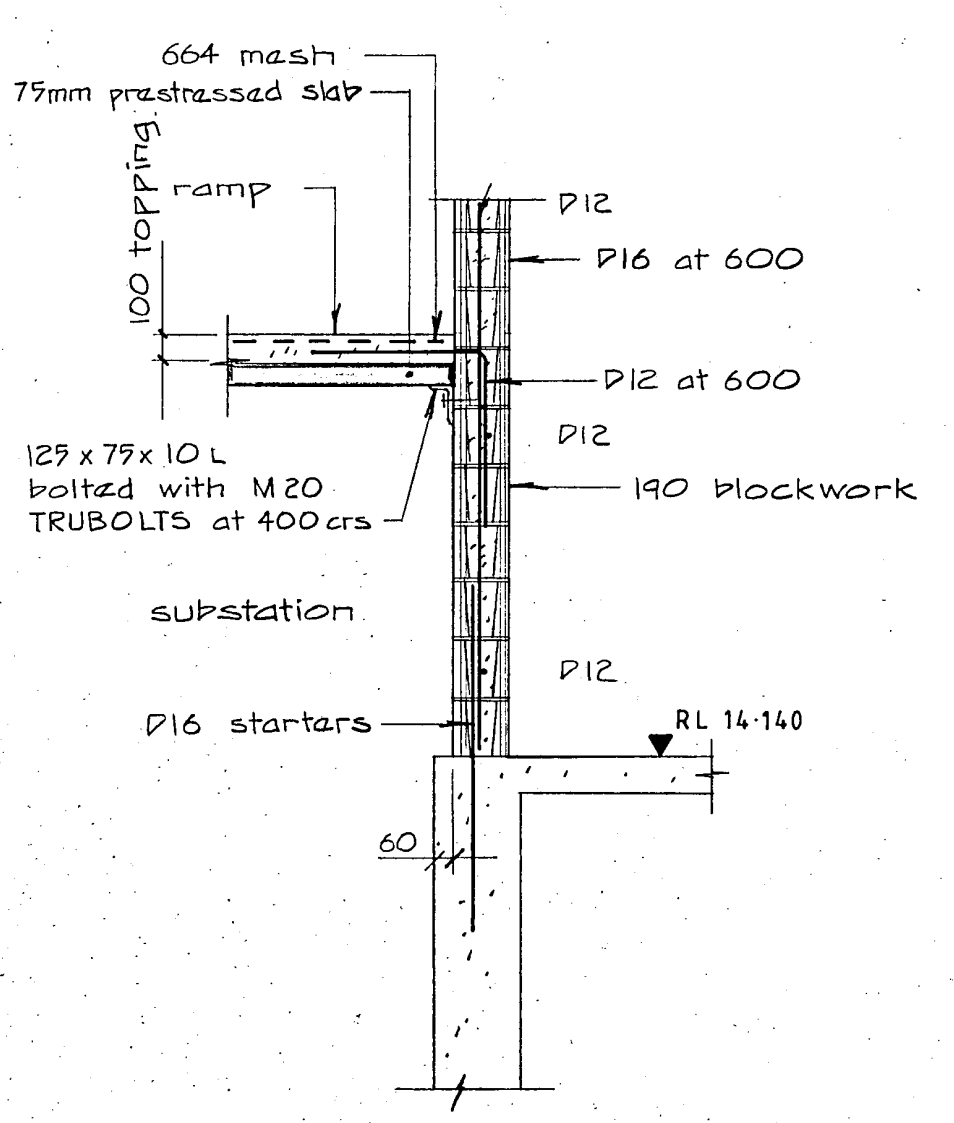
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S300



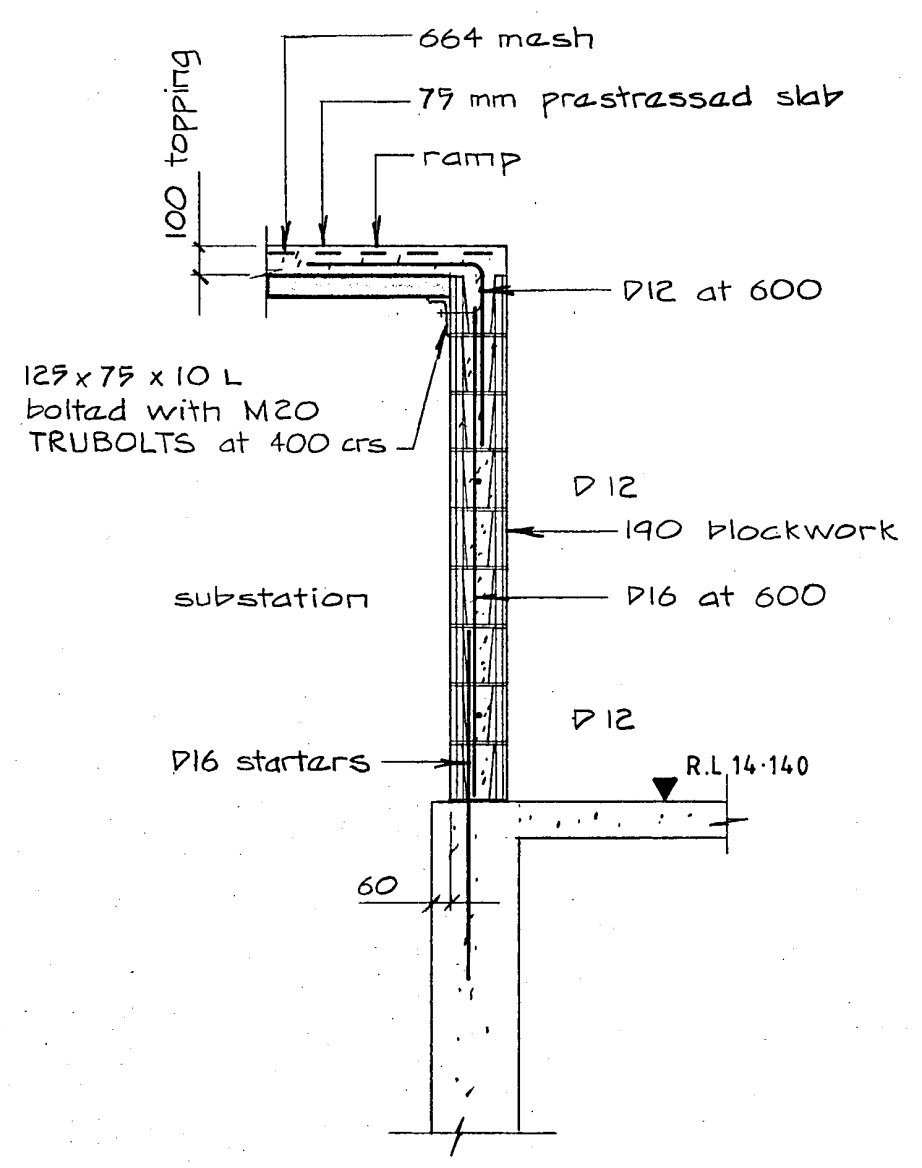
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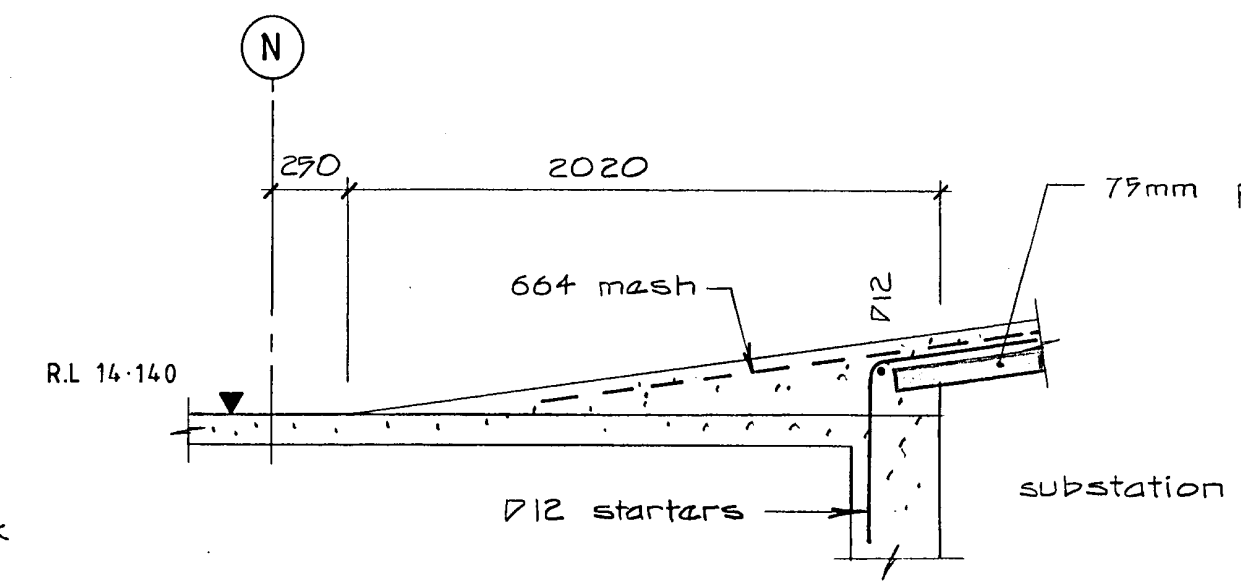
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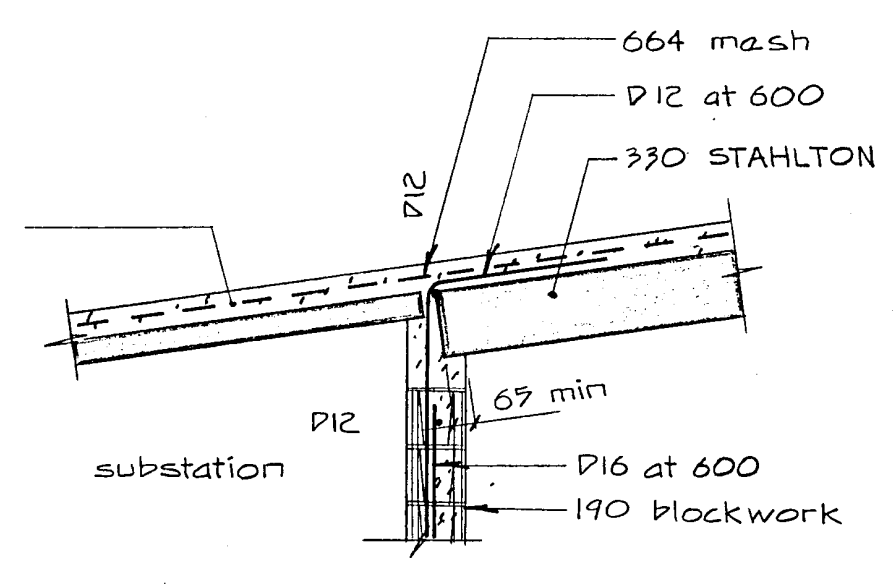
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S300



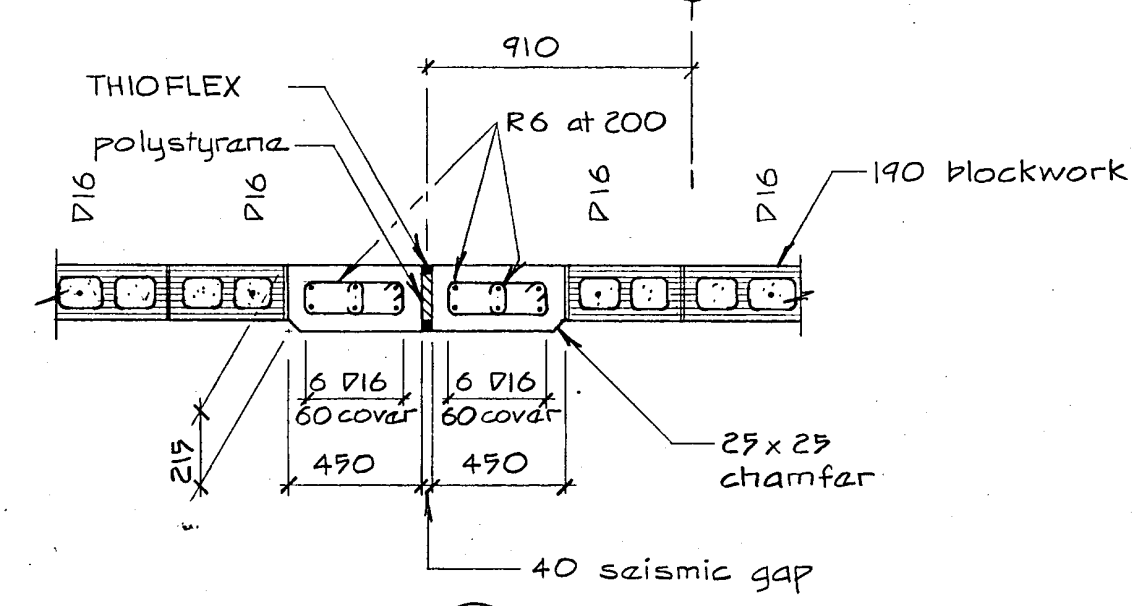
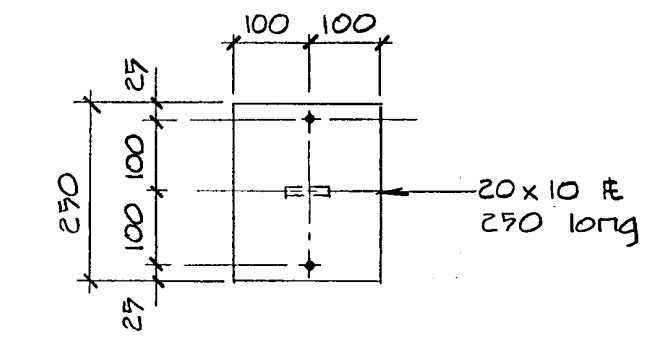
12  
S300



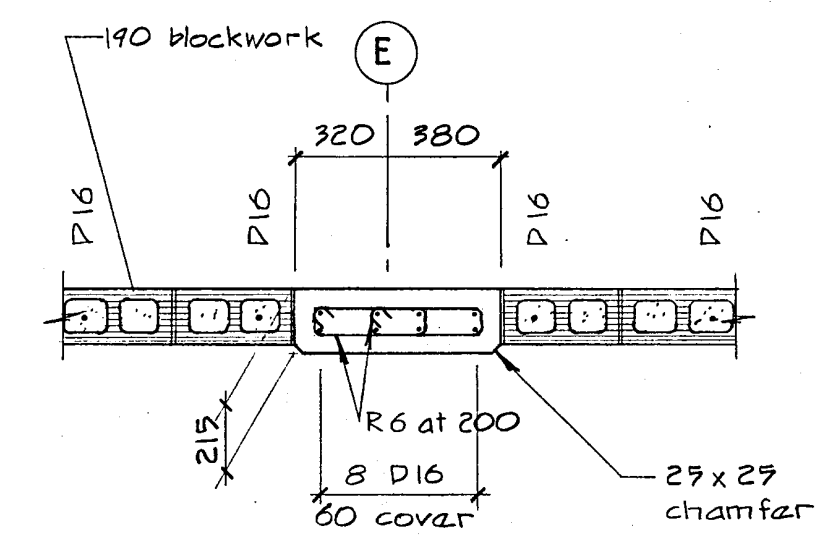
13  
S300



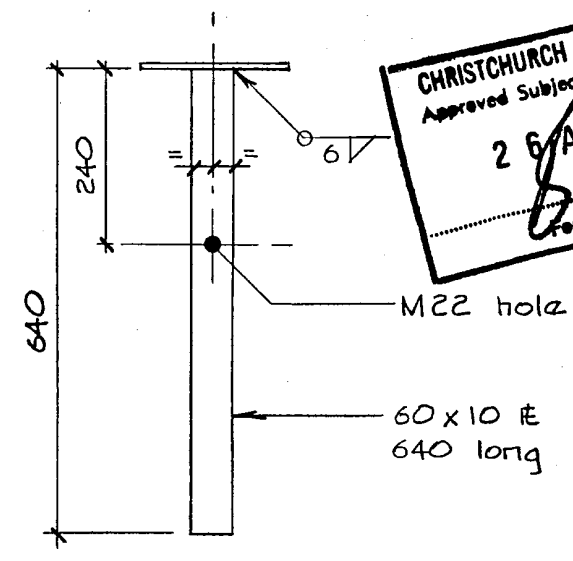
14  
S300



15  
S300



16  
S300



blockwork support bracket

- 200x10 # 290 long
- 2-14 dia holes as shown
- 60x10 # 640 long
- 1-22 dia hole as shown

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CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
2 APR 1988  
For Engineer

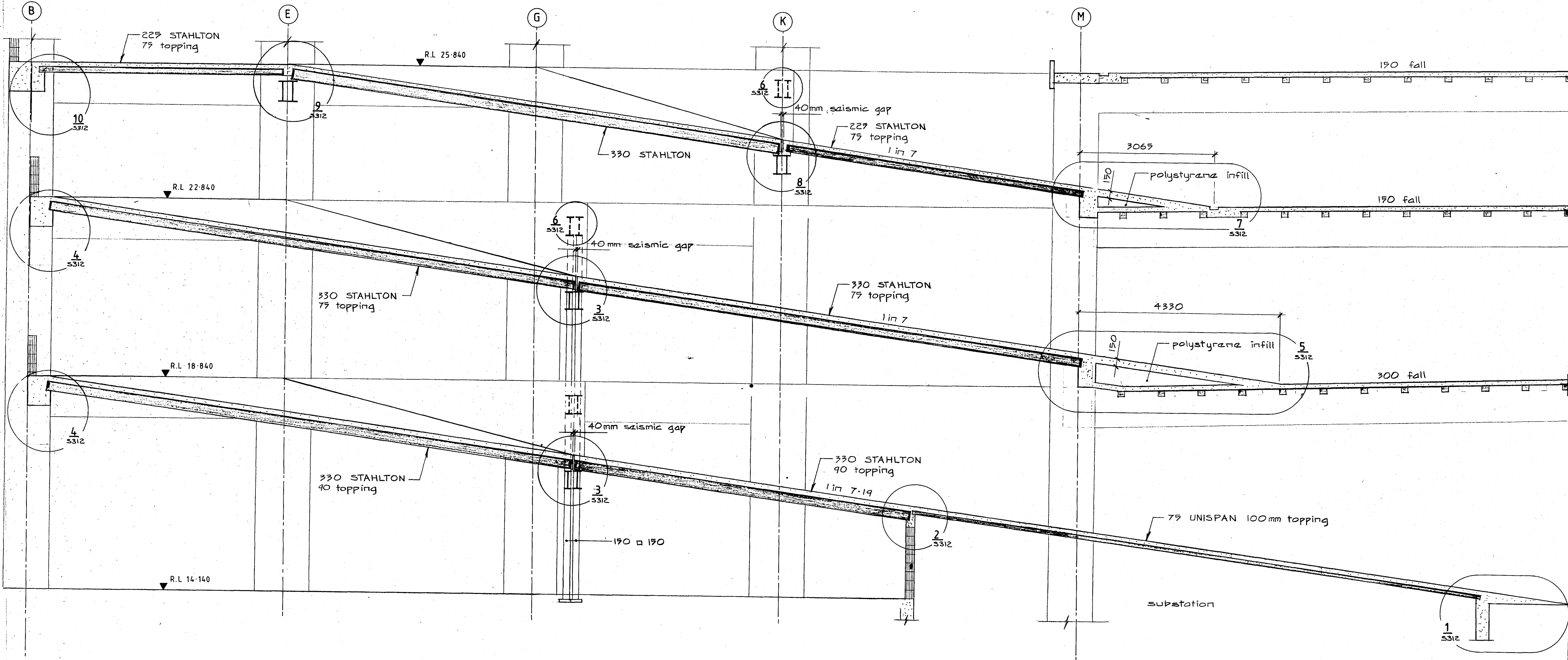
LANDMARK TOWER  
CHRISTCHURCH

DRAWN: J.W SCALE: 1:25  
APPROVED: R.A.P.

SHEET TITLE:  
BLOCKWALL DETAILS

JOB NO: 2281 SHEET NO: S 302 REV: 1

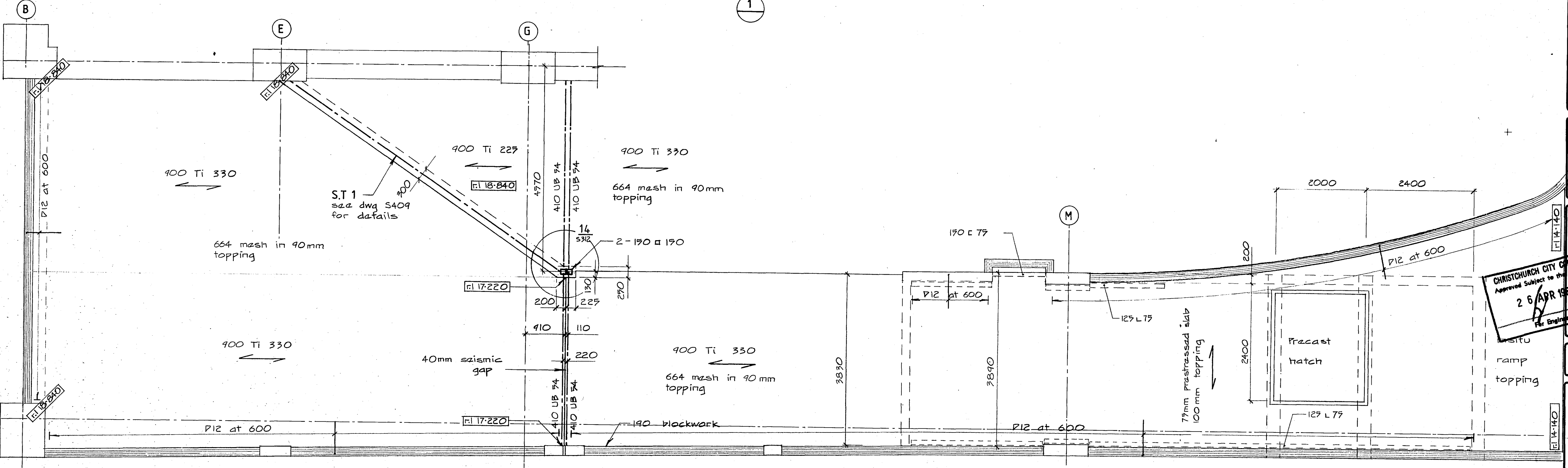
ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK



For package number

4	6	7	8	9	10	11	12	13	14	15	17	18	19
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Rev	Date	Amendment
1	4-3-88	Permit



ramp plan (level 0-1)

Warren & Mahoney Architects Ltd  
Christchurch Wellington & Auckland

HOLMES CONSULTING GROUP  
STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
Per Engineer

LANDMARK TOWER  
CHRISTCHURCH

DRAWN: J.W SCALE: 1:50  
APPROVED: R.A.P.

SHEET TITLE:  
RAMP SECTION AND  
RAMP PLAN LEVEL (0-1)

JOB NO: 2281	SHEET NO: S310	REV: 1
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CARCASS	
DRG	TITLE
S0	drawing Index
S1	crane load curves
S2	foundation and site plan
S3	excavation plan and details
S4	level 0 plan
S5	level 1 plan
S6	level 2 plan
S7	level 3 plan
S8	level 4,5&6 plans
S9	level 7-9 & 10-12 plans
S10	levels 13-19, & 20 plans
S13	details levels 1 to 20
S30	frame on grid 1
S31	frame on grid 12
S32	frame on grid B
S33	frame on grid M

INSITU CONCRETE	
DRG	TITLE
S100	raft plan reinforcing top steel
S101	raft plan reinforcing bottom steel
S102	raft slab and liftpl. reinf. details
S103	raft slab and liftpl. reinf. details
S104	crane base details carcass & reinf.
S105	floor design loadings key plans
S106	level 0 plan reinforcing
S107	levels 1,2&3 plans reinforcing
S108	level 3 plan reinforcing
S109	levels 4 to 20 plans reinforcing
S111	podium & substation foundations reinf.
S112	substation wall details reinf.
S115	external Insitu beams lev.1-3 reinf.
S116	external Insitu beams lev.1-4 reinf.
S117	external Insitu beams lev.4-9 reinf.
S118	external Insitu beams lev.10-20 reinf.
S119	external Insitu beams reinf. details
S120	beam/col. junction reinf. details
S121	beam/col. junction reinf. schedule
S122	beam/col. junction levels 1-4
S123	beam/col. junction levels 10-20
S130	tower column schedule reinf.
S131	tower column schedule reinf. details
S132	tower column schedule reinf. details
S133	podium cols. carcass & reinf. details

PRECAST CONCRETE	
DRG	TITLE
S200	precast beam schedule levels 1-20
S201	precast beams P1 to P4 reinforcing
S202	precast beams P1 to P4 carcass
S203	precast beam P5 to P10
S205	precast beam steelwork
S206	PC lift lobby slab plan & details reinf.
S210	PC toilet slab plan & details reinf.
S215	precast stairs P51 to P53 reinf.
S216	precast stairs P54 and P55 reinf.
S217	precast stairs layout and connections
S218	PC stair connections Insitu stair details
S220	precast spandrels

BLOCKWORK	
DRG	TITLE
S300	blockwall elev. grid 14, BW1 to BW4
S301	blockwall elev on N & between 13&14
S302	blockwork details
S310	ramp plan lev 0 to 1, ramp section
S311	ramp plan lev. 2 and 3
S312	ramp details reinforcing

STRUCTURAL STEELWORK	
DRG	TITLE
S400	typ. & podium floor, stairwall steelwork
S407	steelbeam elev. grids E,G&K
S408	steelbeam details
S409	ramp truss details

P.C AND STEEL CONNECTIONS	
DRG	TITLE
S500	PC beam to Insitu column connections

check as per folder plus  
 S2 }  
 S100 }  
 S101 }  
 S102 }  
 S416 }  
 S416 }  
 S417 }

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number															
4	6	7	8	9	10	11	12	13	14	15	17	31	45		

Rev.	Date	Amendment
1	4/9/88	permit

**CITY HEALTH DEPARTMENT**  
 TO THE OWNER/APPLICANT  
 Please advise all prospective occupiers of the following requirements of legislation administered in this department.  
**CLEAN AIR ACT 1972**  
 Details of all plant and processes involved in the handling or discharge of air pollutants as specified in the Schedule of the Clean Air Act 1972 must be submitted to the City Health Department for approval before installation and operation, as licensing may be necessary under the provisions of the Act.  
**HEALTH ACT 1956 AND REGULATIONS**  
 If the building is intended to be used as food or haireading premises it will be necessary for it to comply with all relevant bylaws and regulations as regards floors, walls, lighting, ventilation, washing facilities and other matters, depending on the type of business carried out.  
 Compliance is required by legislation, and application and registration fees must be paid before any food or haireading business commences. An adequate supply of wholesome drinking water shall be provided for the free use of the persons working on the premises.  
**NOISE CONTROL ACT 1982**  
 All noise producing plant and equipment must be suitably acoustically shielded, and all activities on the premises must be conducted, so as to ensure that noise does not exceed a reasonable level within the meaning of the Noise Control Act 1982. Where applicable, compliance with the Council's District Scheme should satisfy this requirement.  
**NOTE: BUILDING OR DEMOLITION CONTRACTORS Control of Noise on Building and Demolition Sites**  
 The Noise Control Act 1982 places a general obligation on persons, including builders and demolition contractors, to adopt the best practicable means to ensure that noise emitted from the site does not exceed a reasonable level. "Practicable means" includes proper design, installation, maintenance and supervision of plant, equipment and machinery and the manner and time of its operation.  
 The issue of a building permit does not absolve persons from compliance with the Act, and if there is a breach, a Noise Control Officer may require a reduction or cessation of the noise as appropriate to each case. Any further information on the above matters may be obtained by contacting the District Health Inspector, City Health Department.  
**DANGEROUS GOODS ACT AND REGULATIONS**  
 Where dangerous goods are stored or used on any premises, the installation must comply in all respects with the requirements of the Dangerous Goods Act and Regulations. This includes all I.P.G. installations.  
 Every application should be accompanied by a plan (in duplicate) showing details of all fire equipment, plant, room, workshop and the storage and use facilities of the dangerous goods.  
 It will be necessary for the details to be submitted one week prior to any installation, and installation must not depart in any material way from the details on the plan subsequently approved.  
 Any further information may be obtained by contacting the Dangerous Goods Inspector, City Health Department.  
 D. R. Bates  
 Director of Environmental Health  
 City Health Department  
 P.W.A. Ltd 3822

**Warren & Mahoney Architects Ltd**  
 Christchurch Wellington & Auckland

**HOLMES CONSULTING GROUP**  
 STRUCTURAL AND CIVIL ENGINEERS  
 Christchurch, Wellington, New Plymouth, Auckland

LANDMARK TOWER  
 CHRISTCHURCH

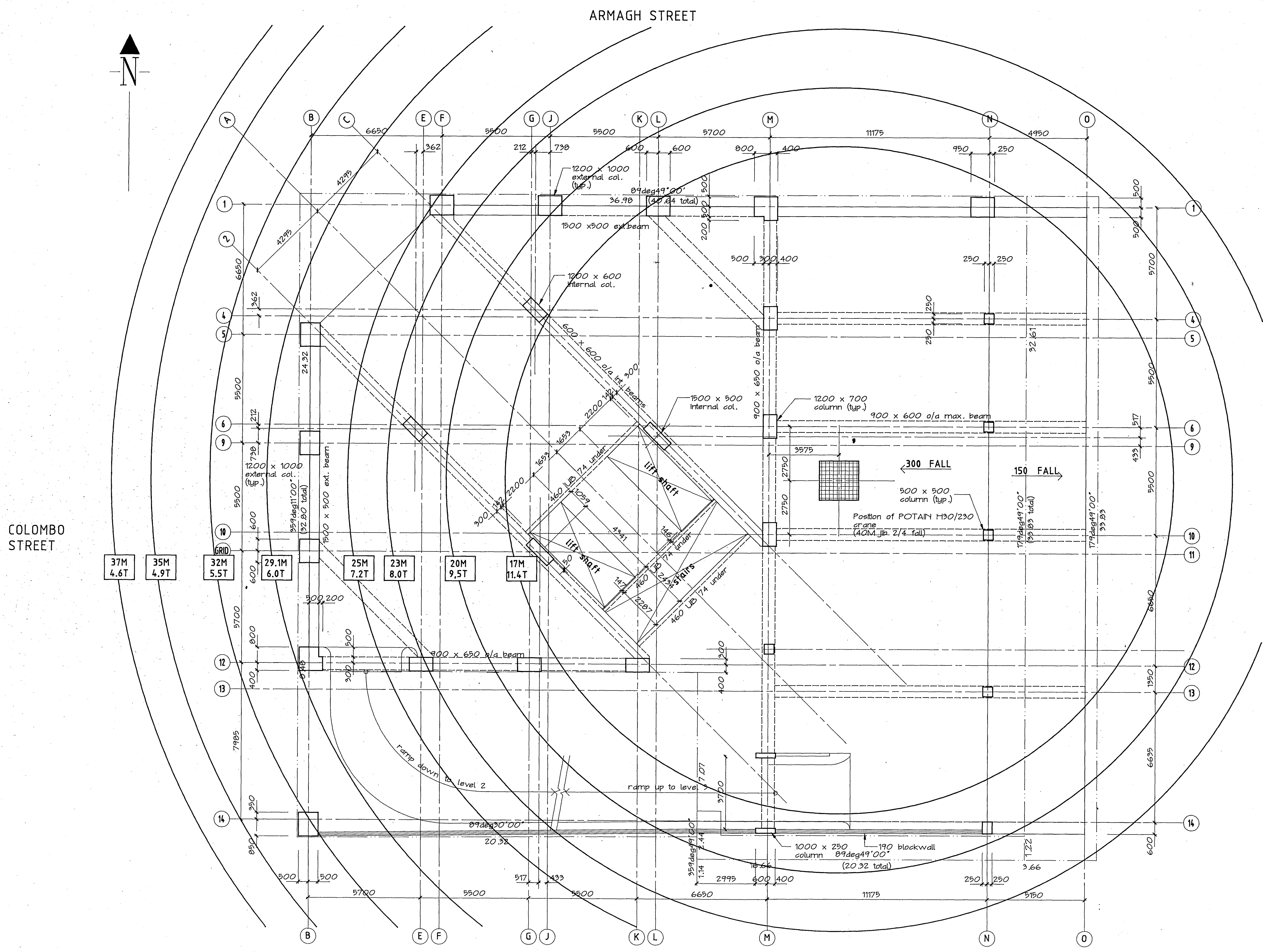
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 SHEET TITLE: DRAWING INDEX  
 CHRISTCHURCH CITY COUNCIL  
 Approved Subject to the Rules  
 2 APR 1988  
 For Engineer

JOB NO: 2281 SHEET NO: S0 REV: 1

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number																		
4	6	7	8	9	10	11	12	13	14	15	17	18	19					

Rev.	Date	Amendment
2	4-3-88	Permit



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STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

LANDMARK TOWER  
CHRISTCHURCH

DRAWN: 9.G.E SCALE: 1:100  
APPROVED:

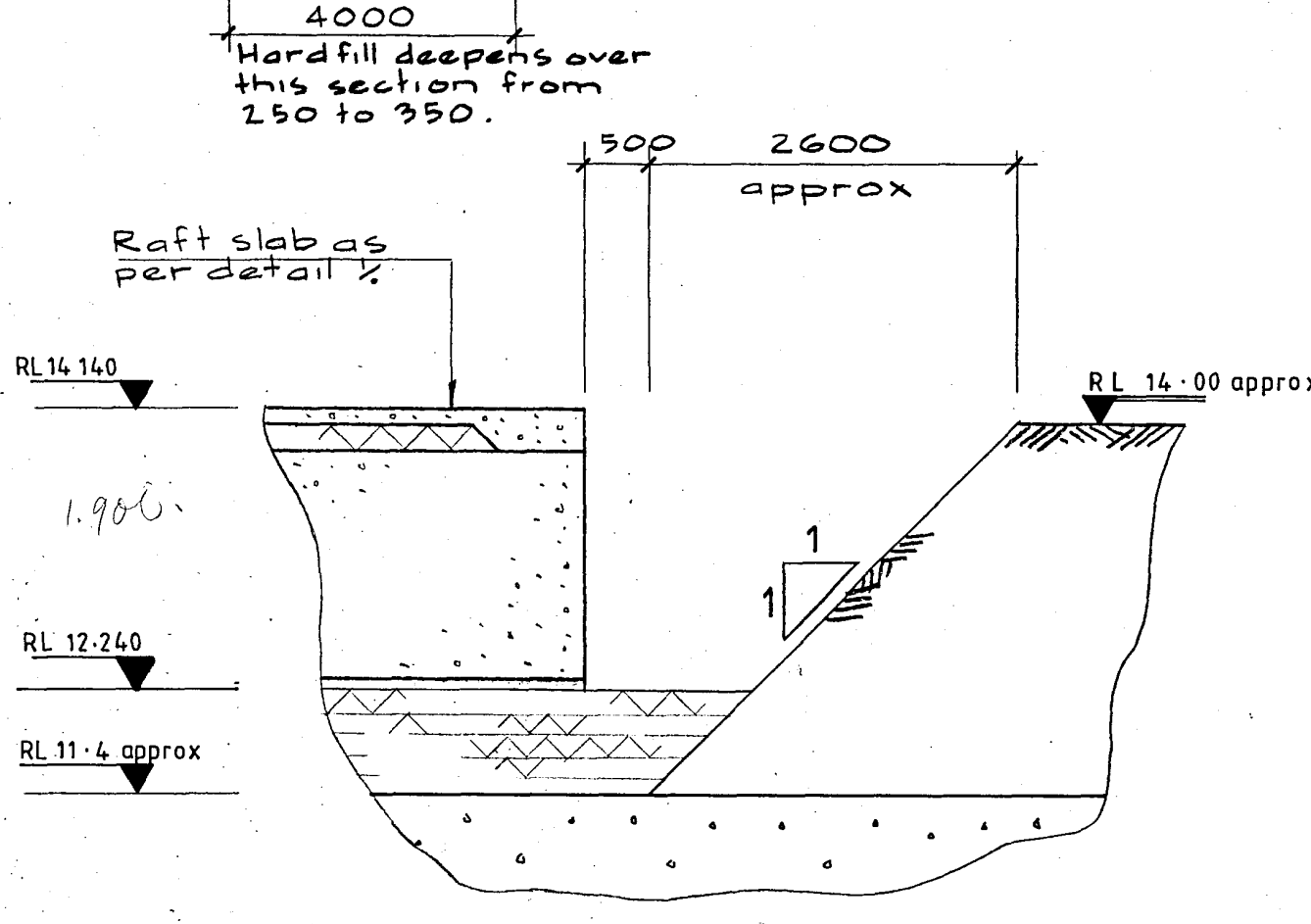
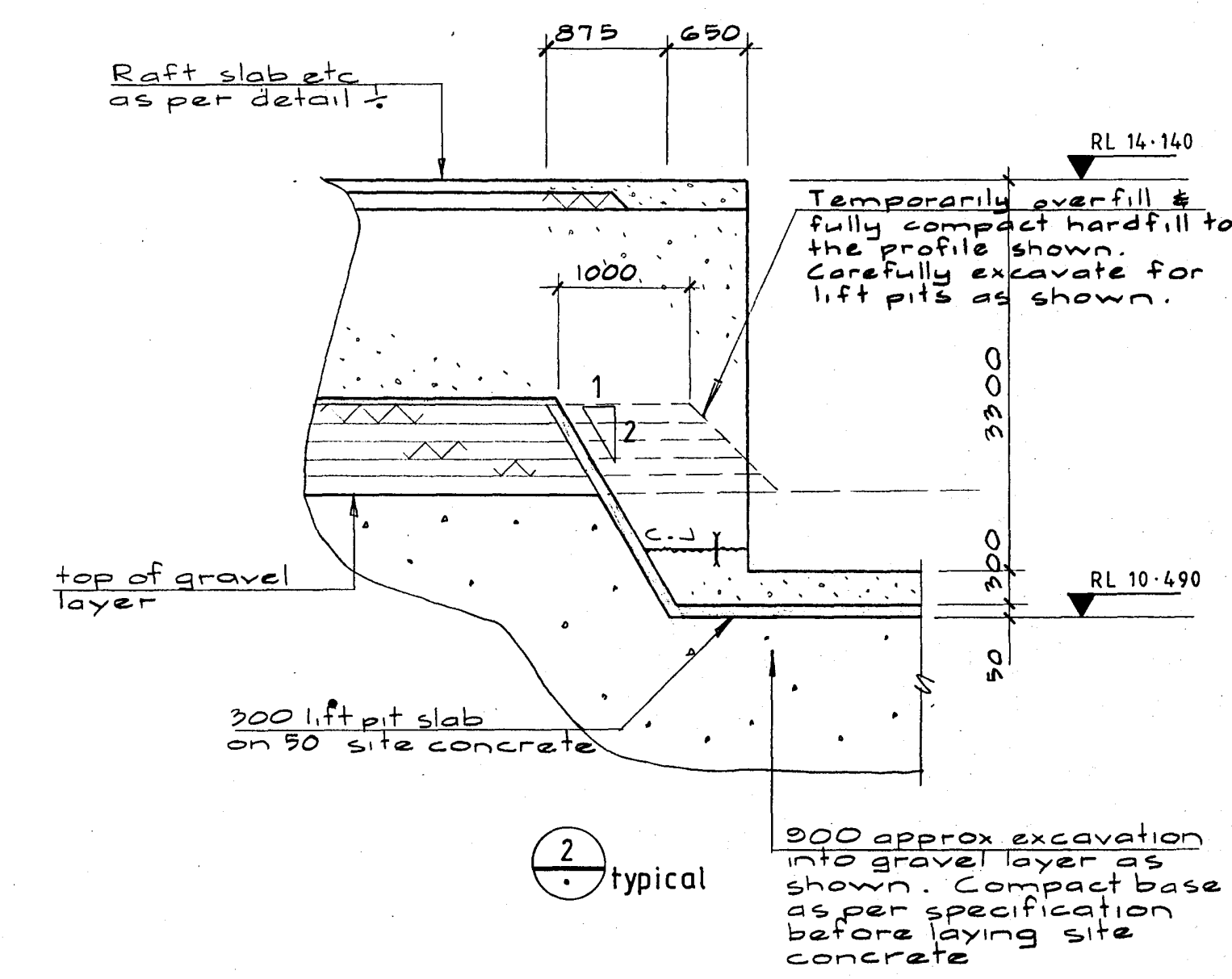
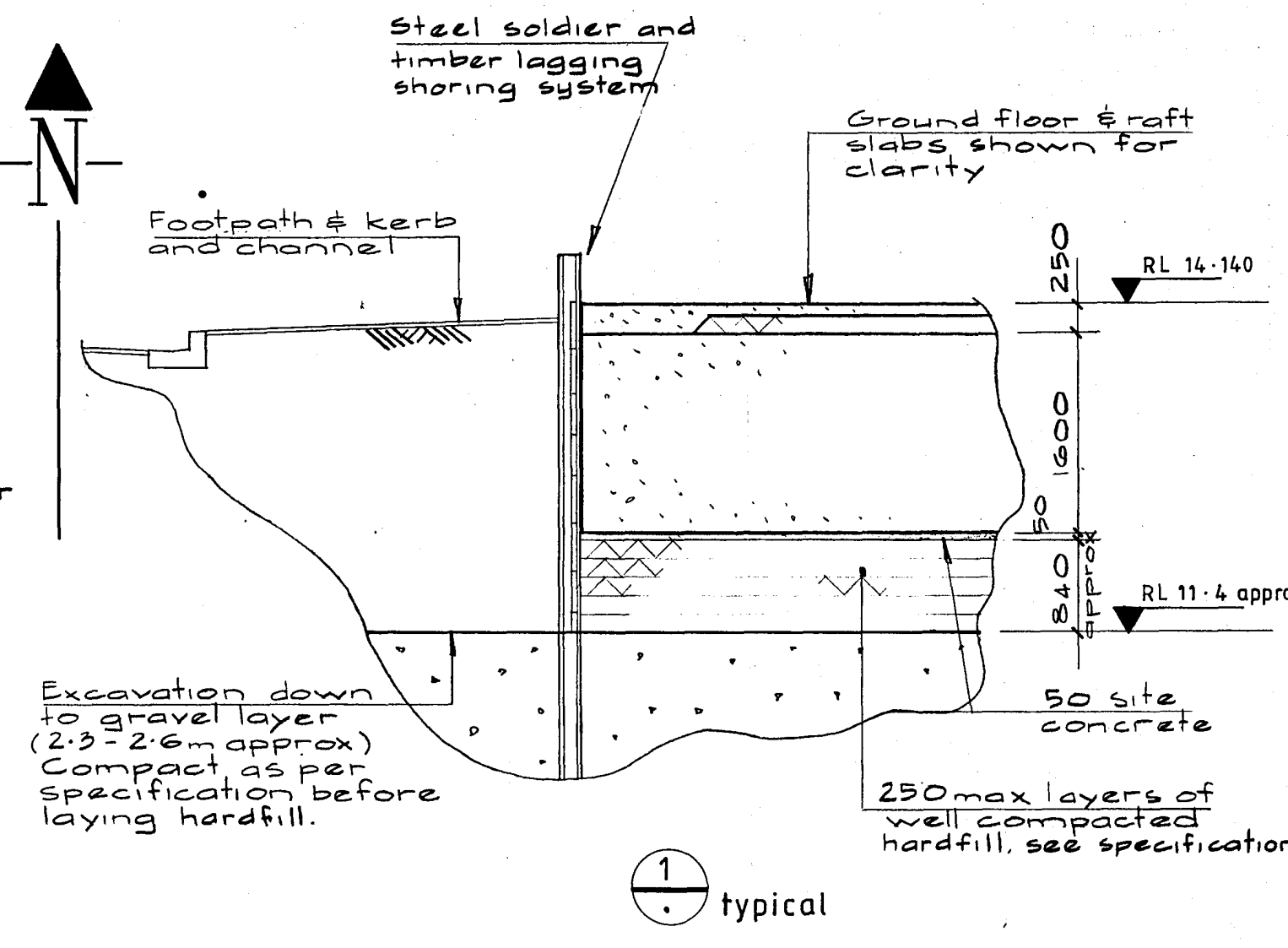
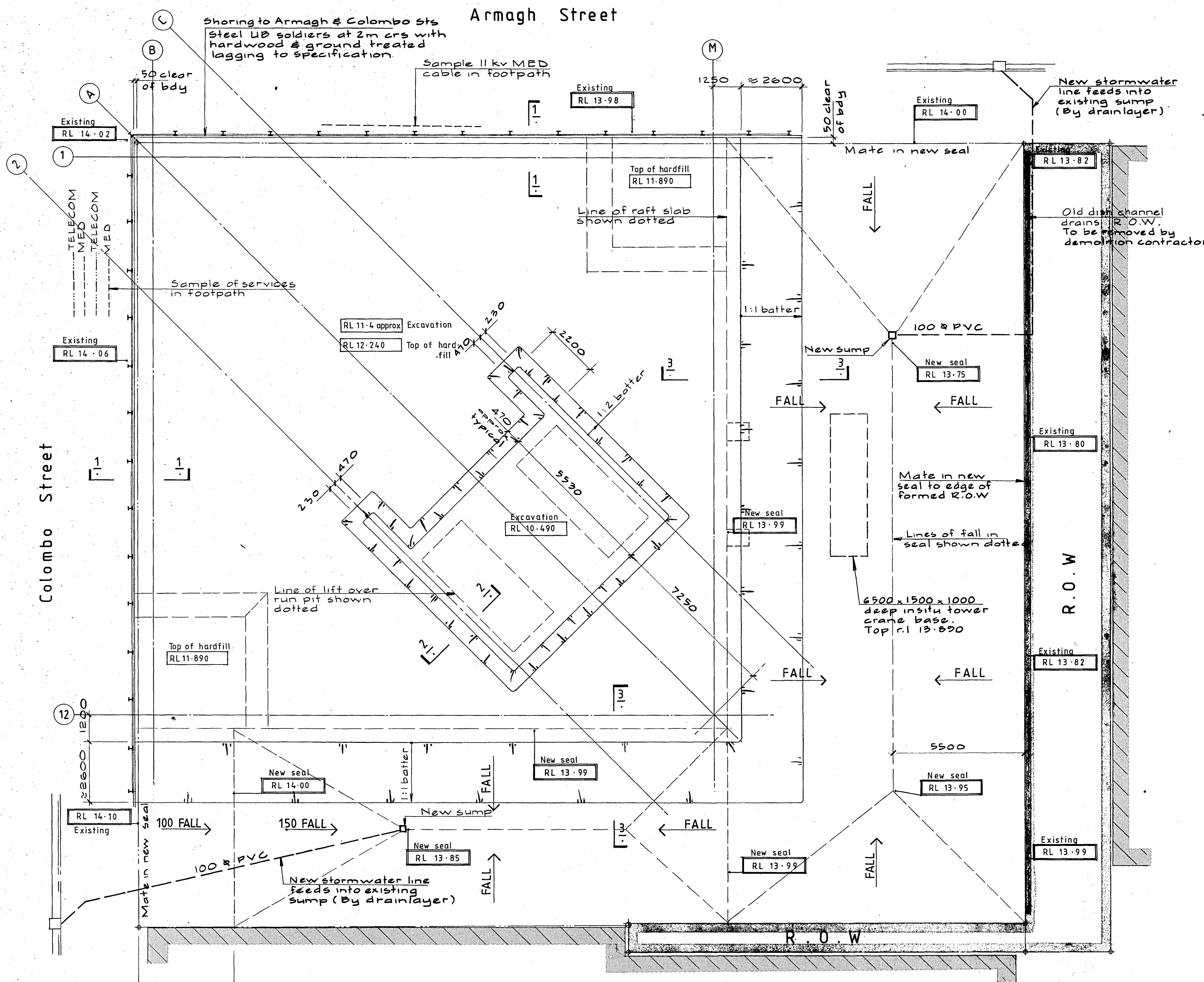
SHEET TITLE:  
CRANE LOAD CUR  
POTAIN H30/230  
(40M jib 2/4 fall)  
CANTONBURY CITY COUNCIL  
Approved Subject to the By-Laws  
28 APR 1988  
For Engineer

JOB NO: 2281 SHEET NO: S1 REV: 2

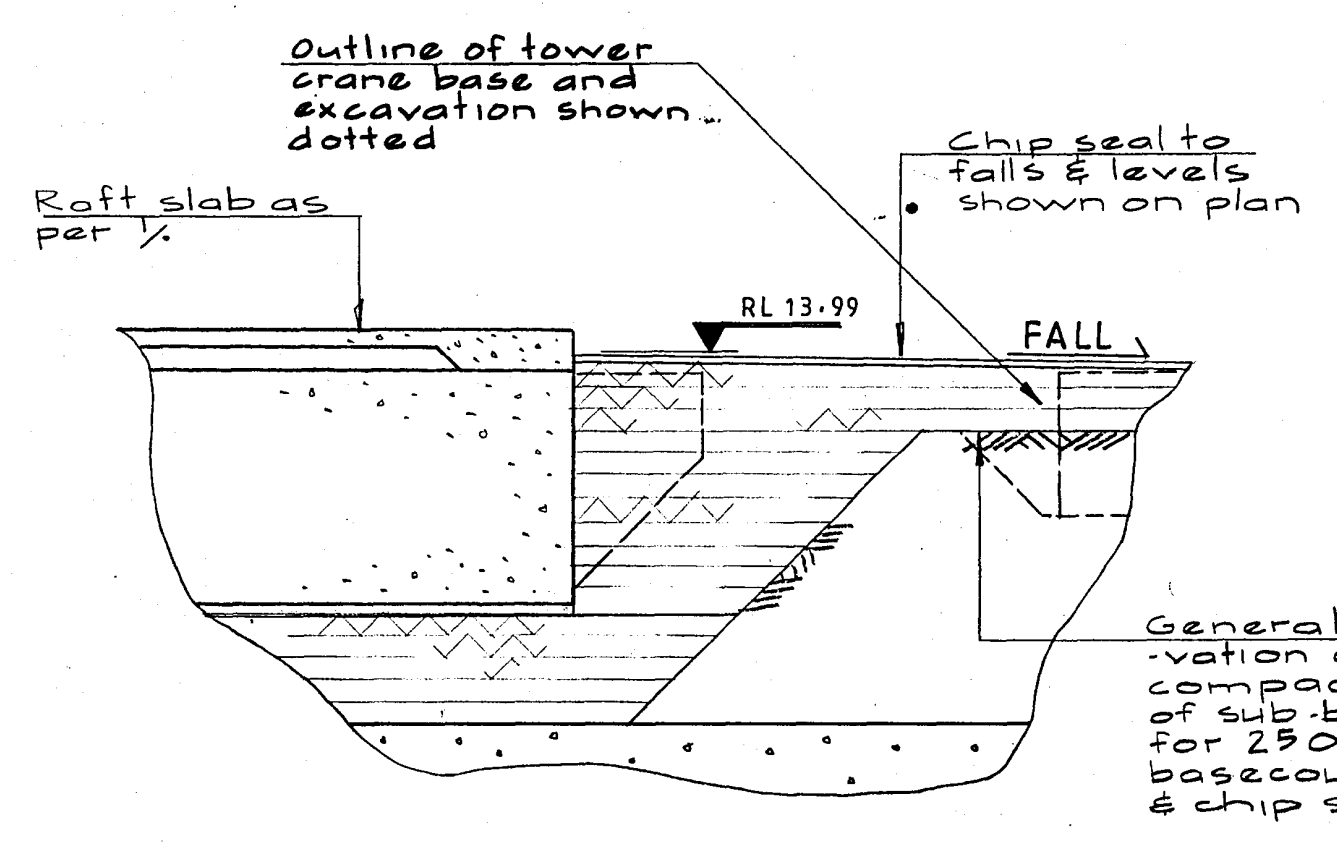
ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number															
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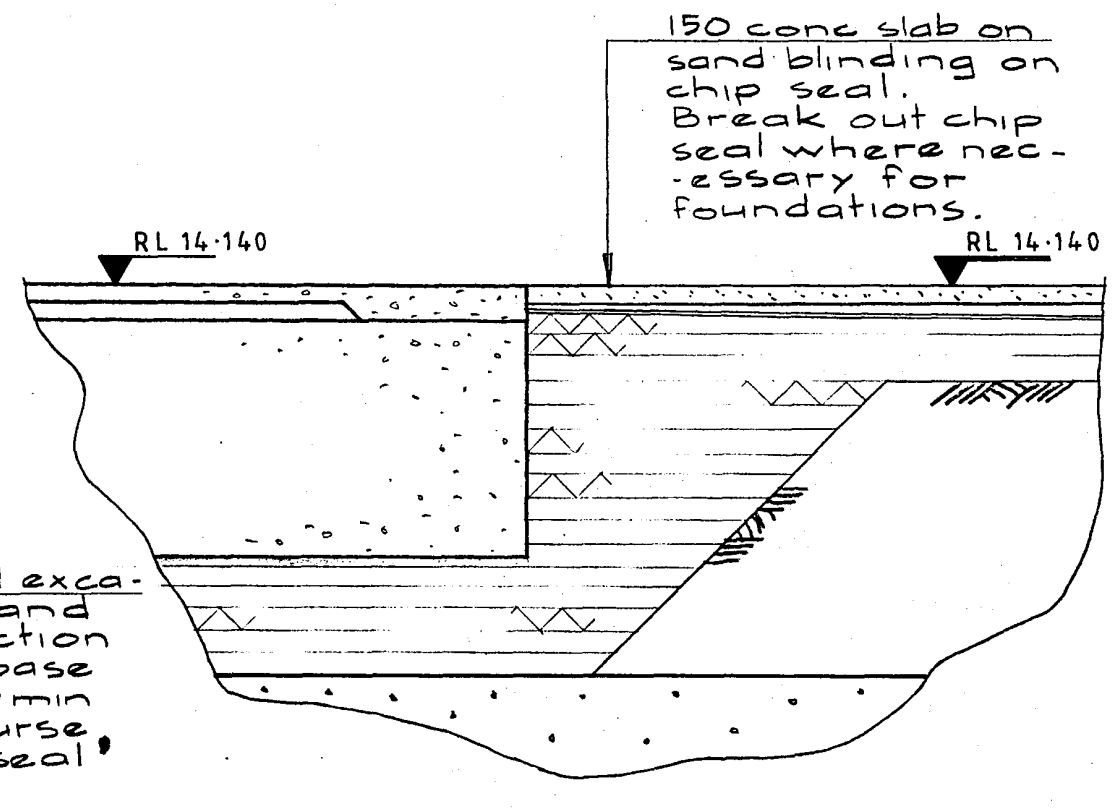
Rev	Date	Amendment
1	5/2/88	ISSUE 1
2	17/2/88	ISSUE 2 Tower crane base added
3	22/2/88	FOUNDATION PERMIT
4	4/3/88	PERMIT



stage 1



stage 2



stage 3 Relates to package B only

Warren & Mahoney Architects Ltd  
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STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

LANDMARK TOWER  
CHRISTCHURCH

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the Resource Management Act  
26 APR 1988  
For Engineer

DRAWN: G K R SCALE: 1:100 1:50  
APPROVED: [Signature]

EXCAVATION PLAN  
AND DETAILS

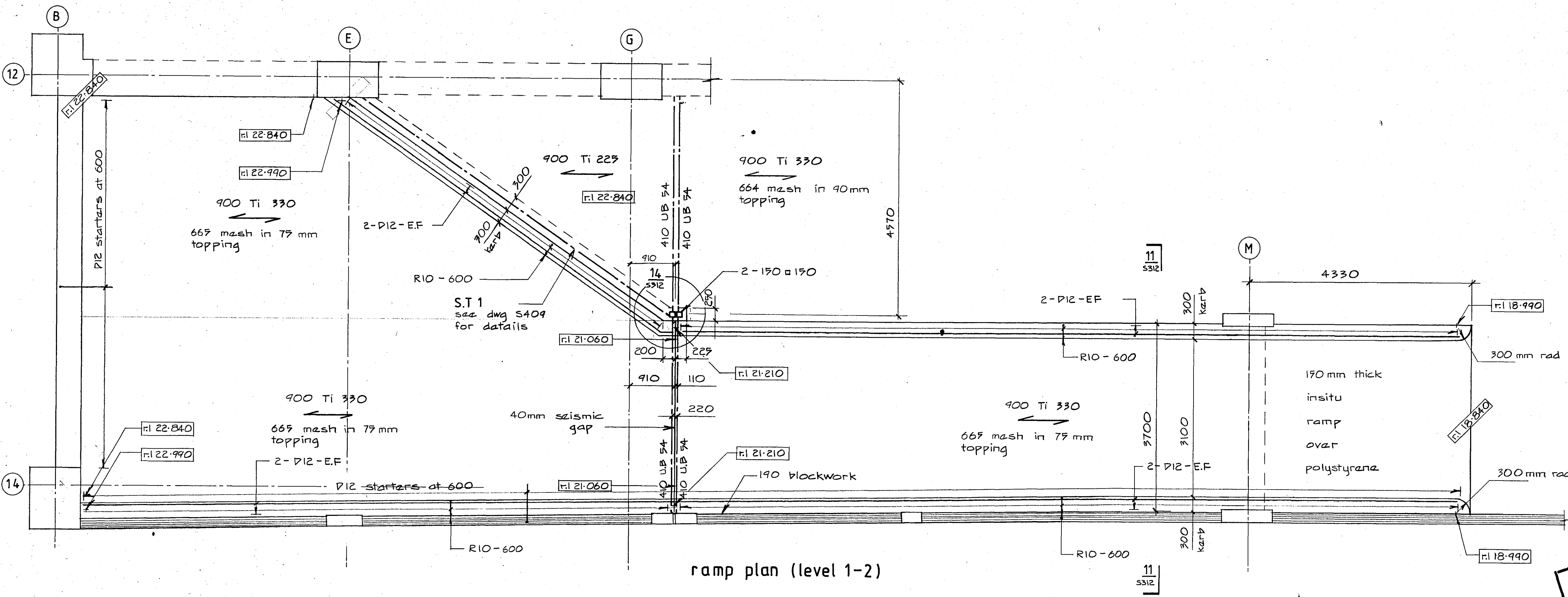
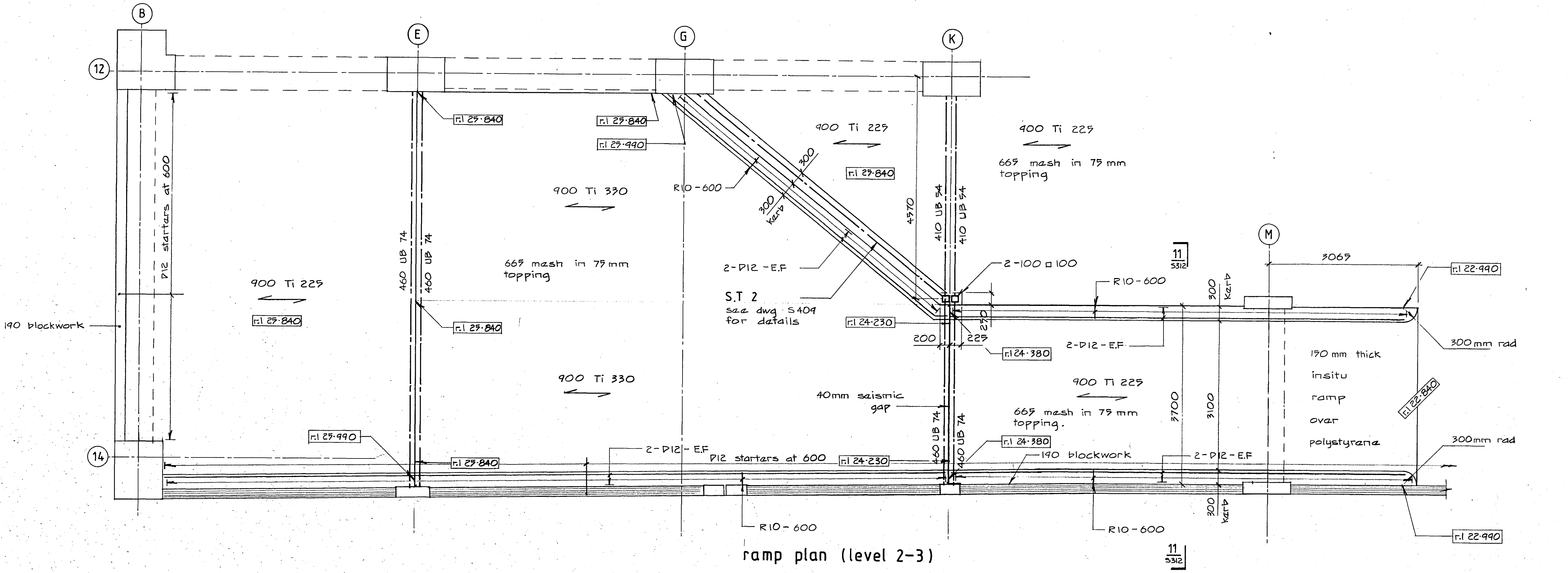
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ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

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Rev	Date	Amendment
1	4-3-88	Permit



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STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

**LANDMARK TOWER**  
**CHRISTCHURCH**

DRAWN: J.W. SCALE: 1:50  
APPROVED: R.A.P.

SHEET TITLE:  
**RAMP PLANS**  
LEVEL (1-2) & LEVEL (2-3)

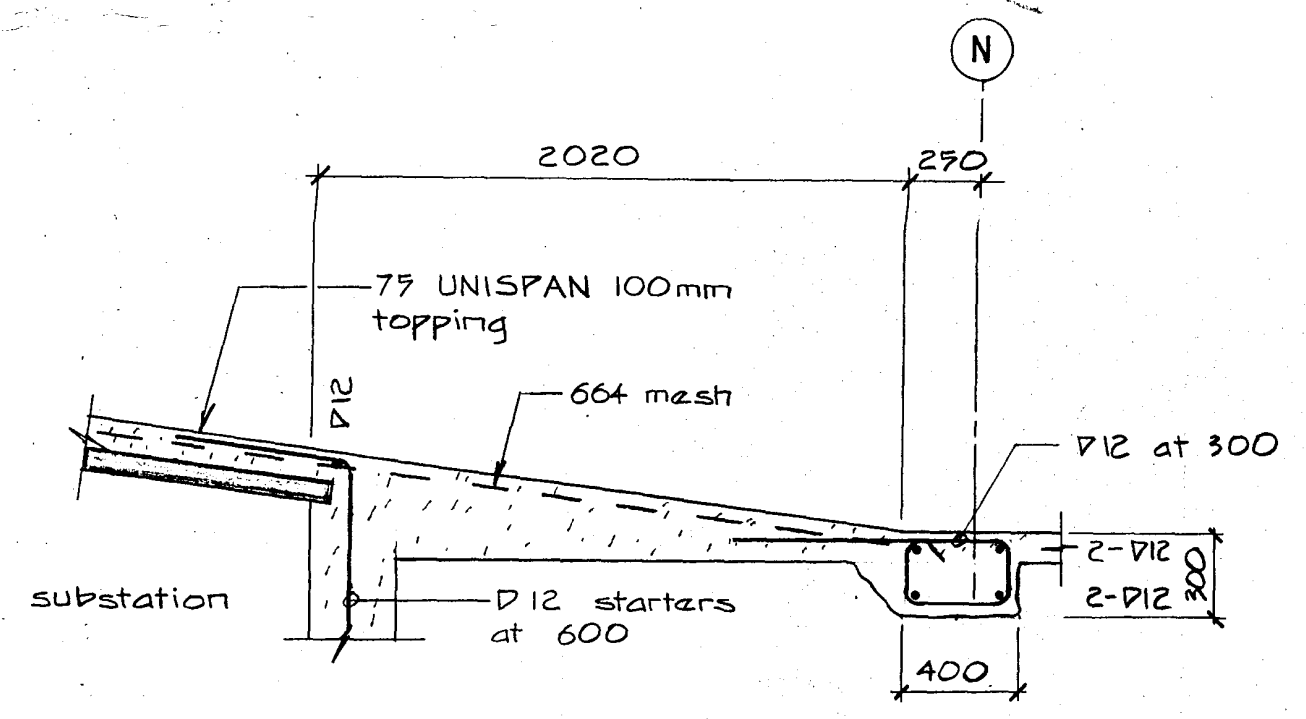
CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
For Engineer

JOB NO: 2281 SHEET NO: S311 REV: 1

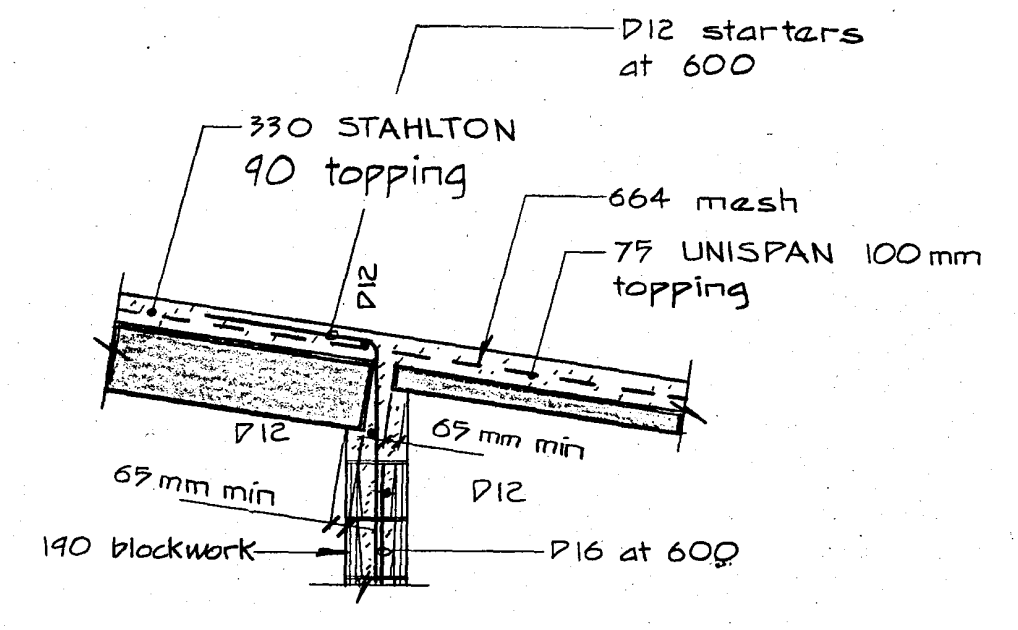
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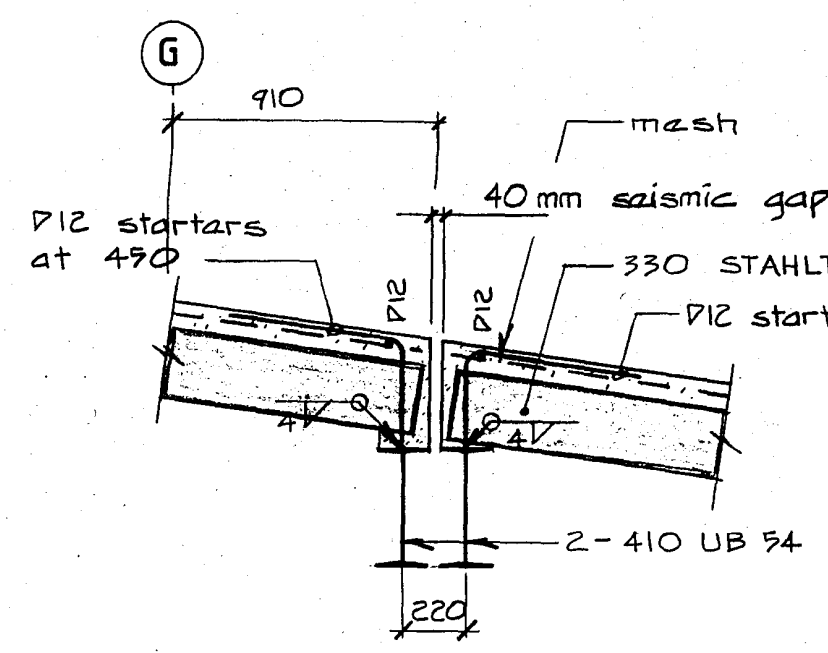
Rev	Date	Amendment
1	4-3-88	Permit



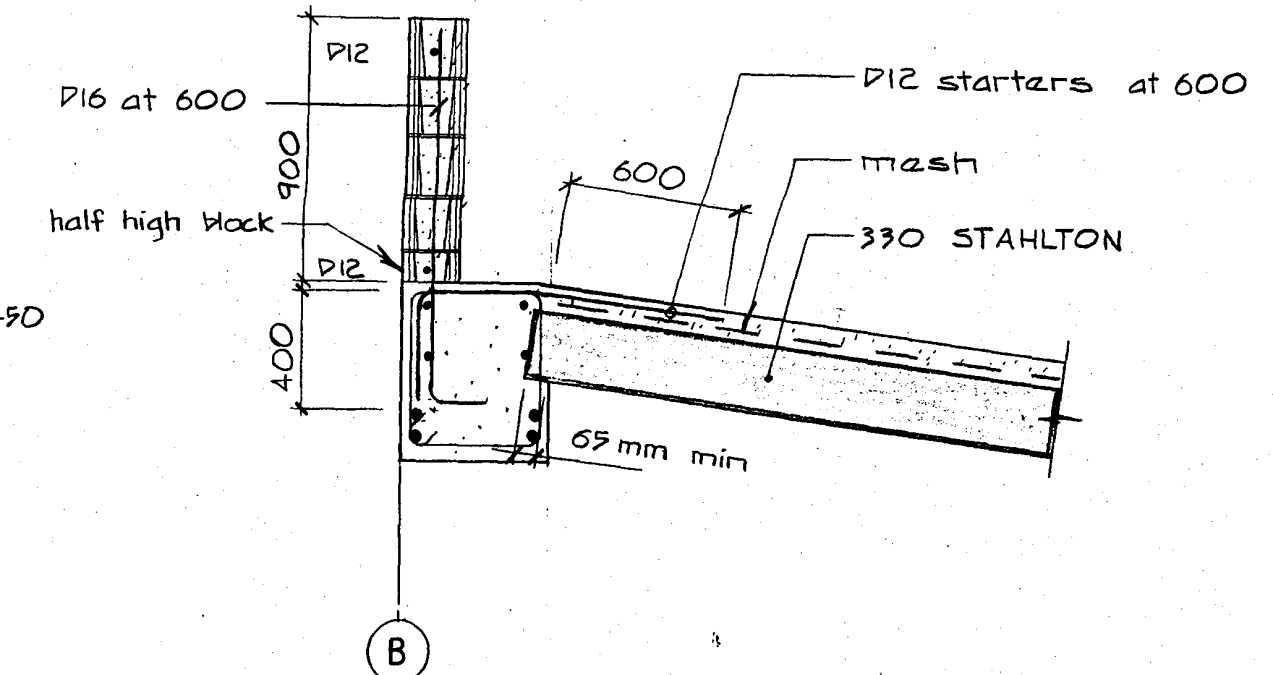
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S310



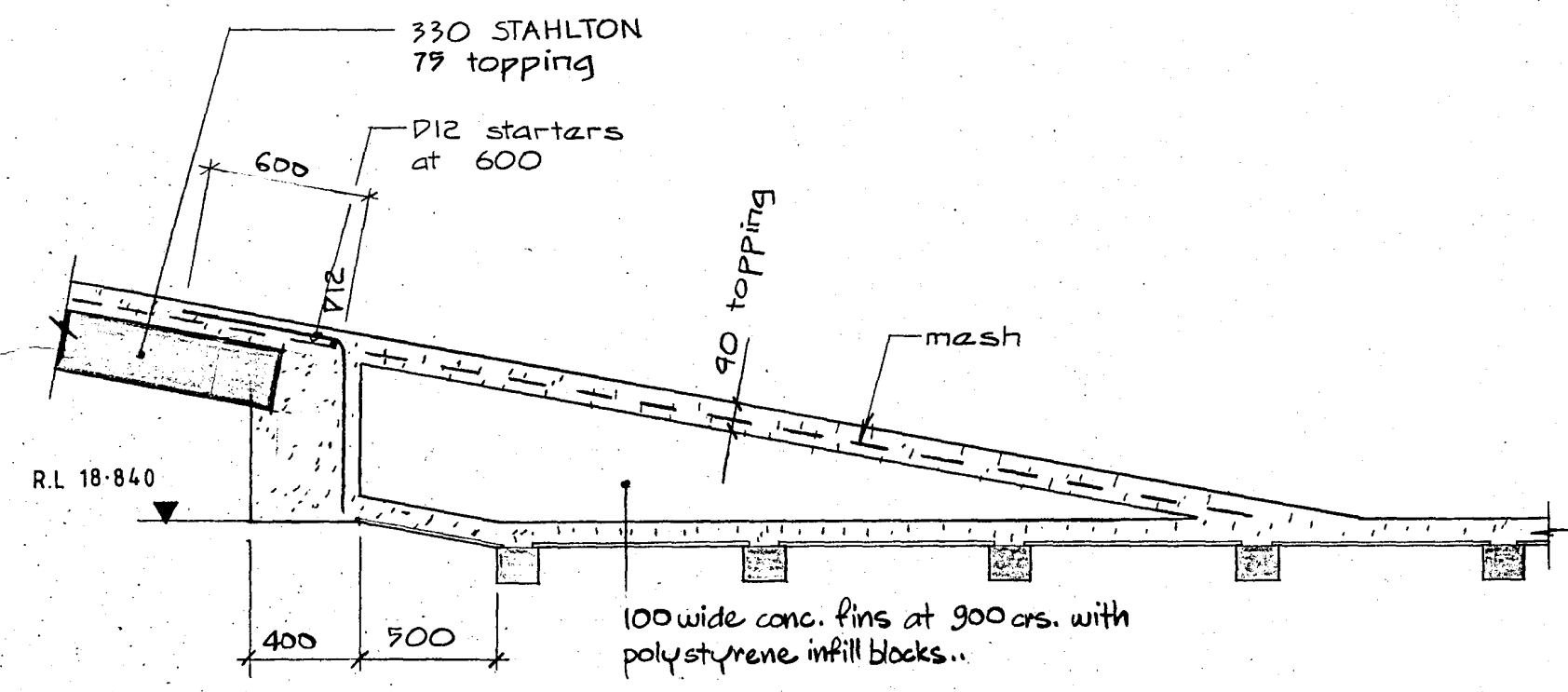
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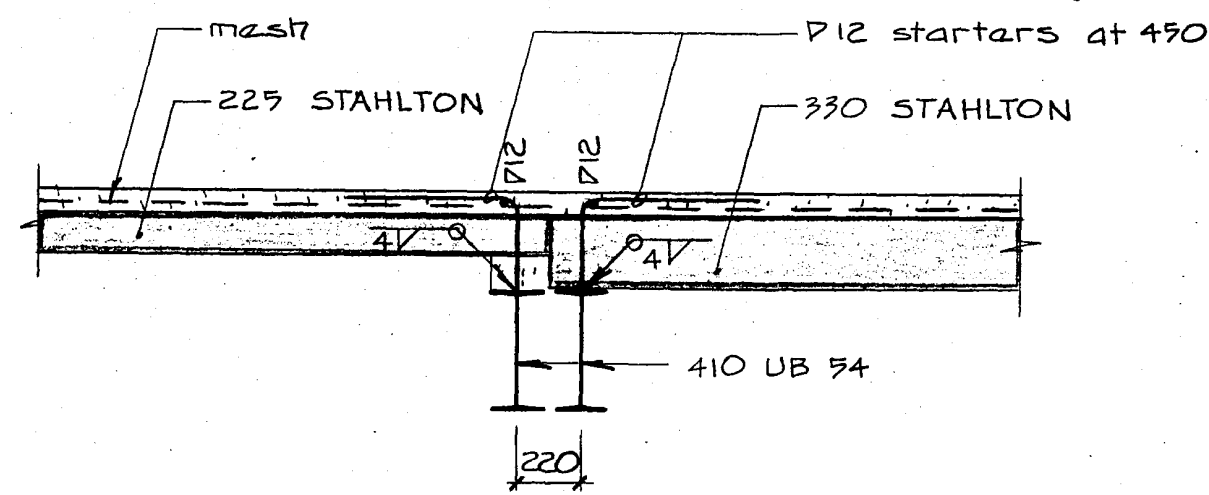
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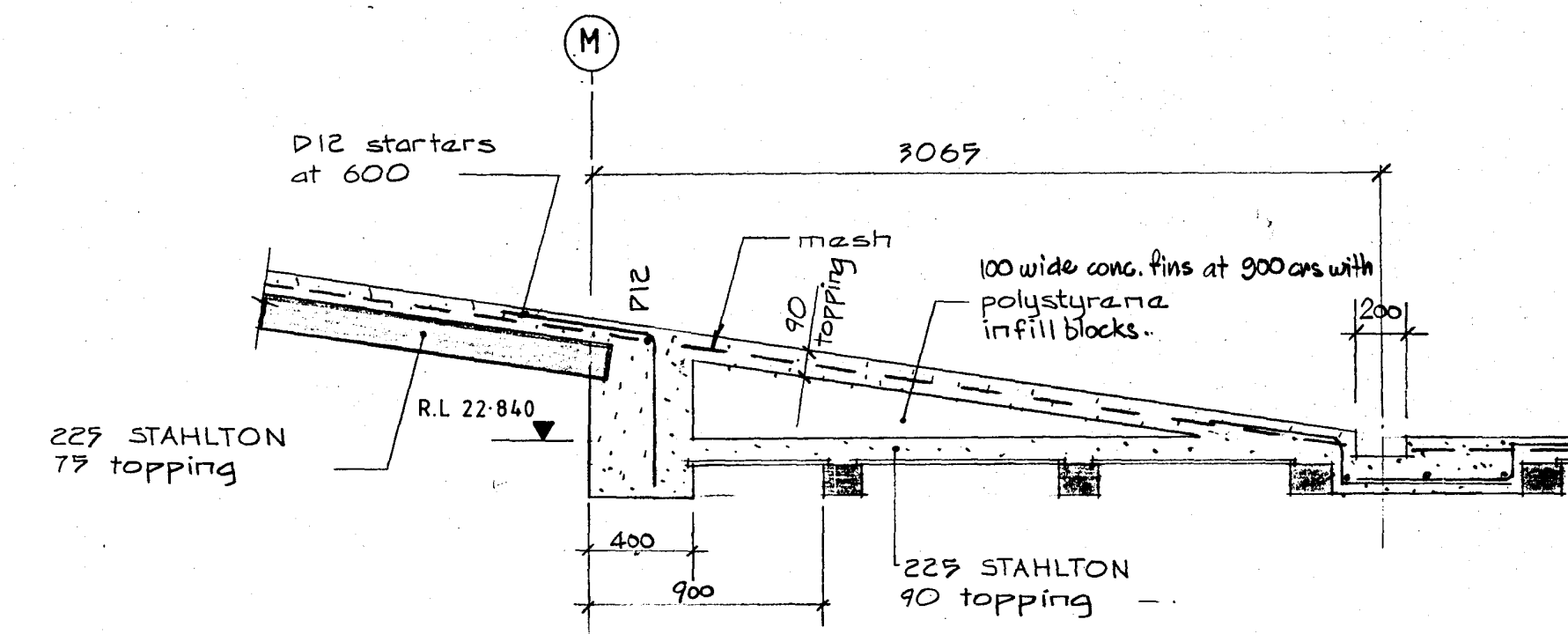
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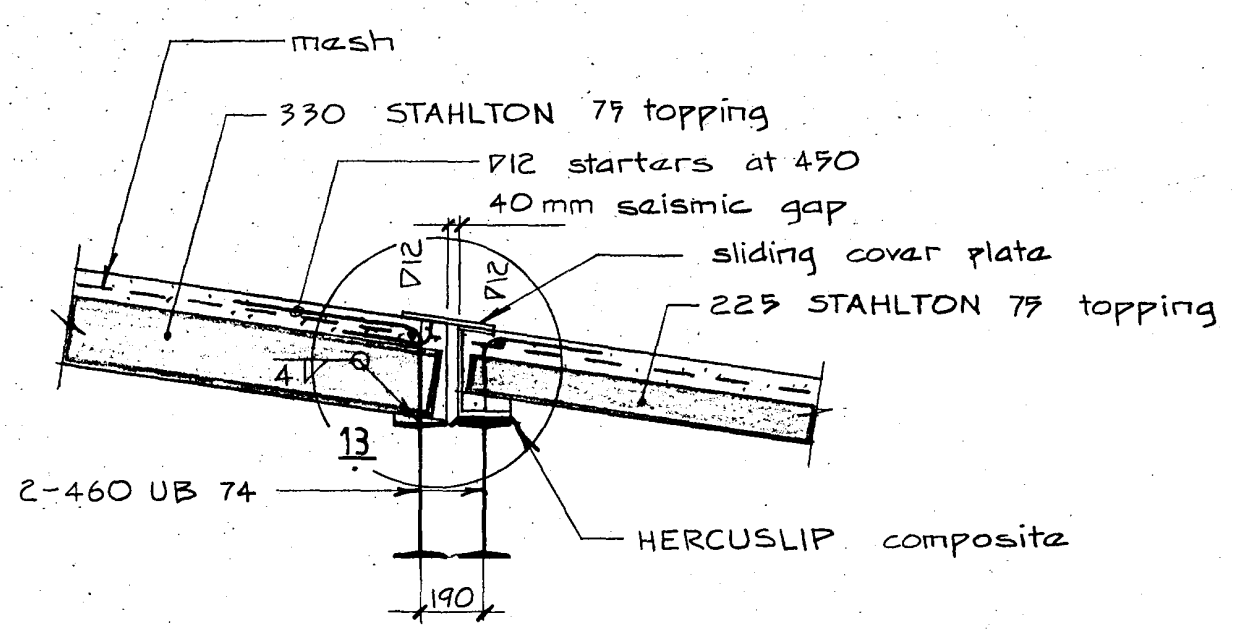
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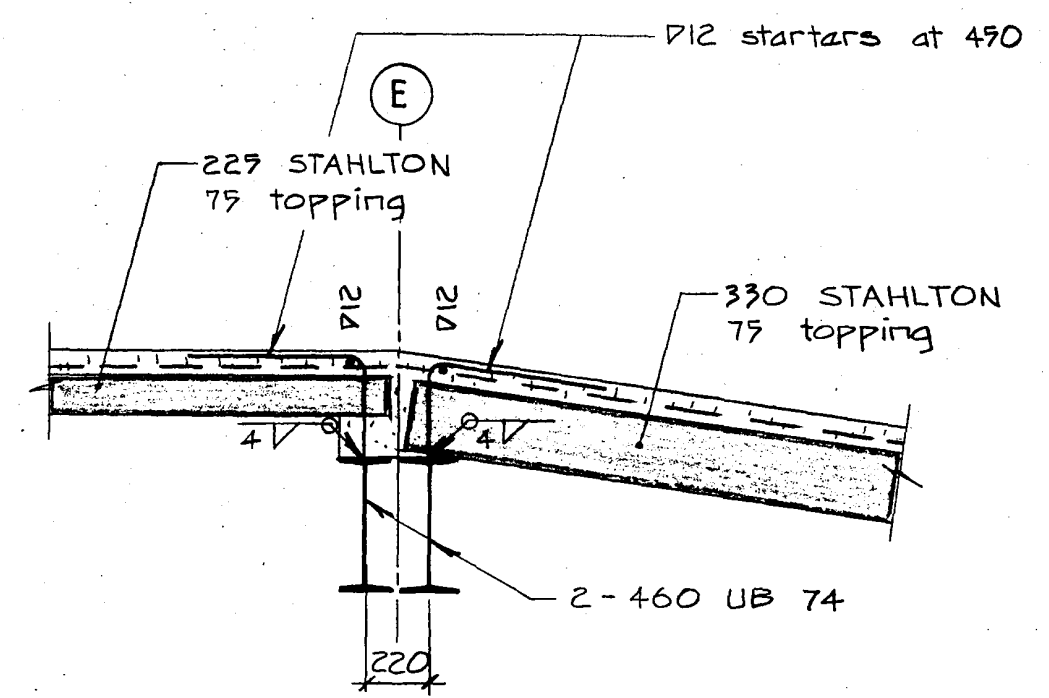
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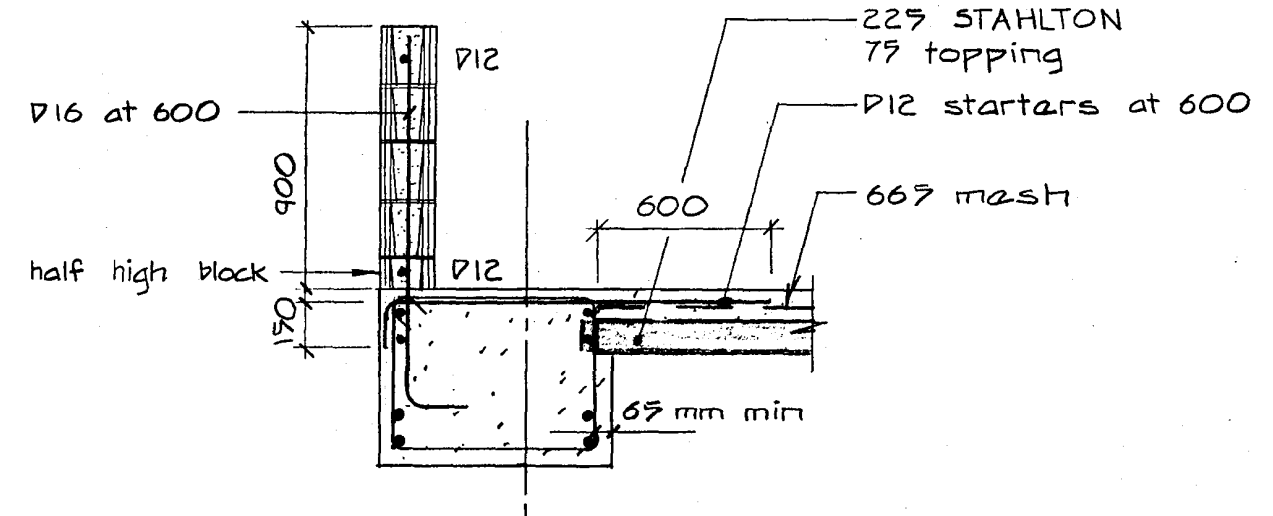
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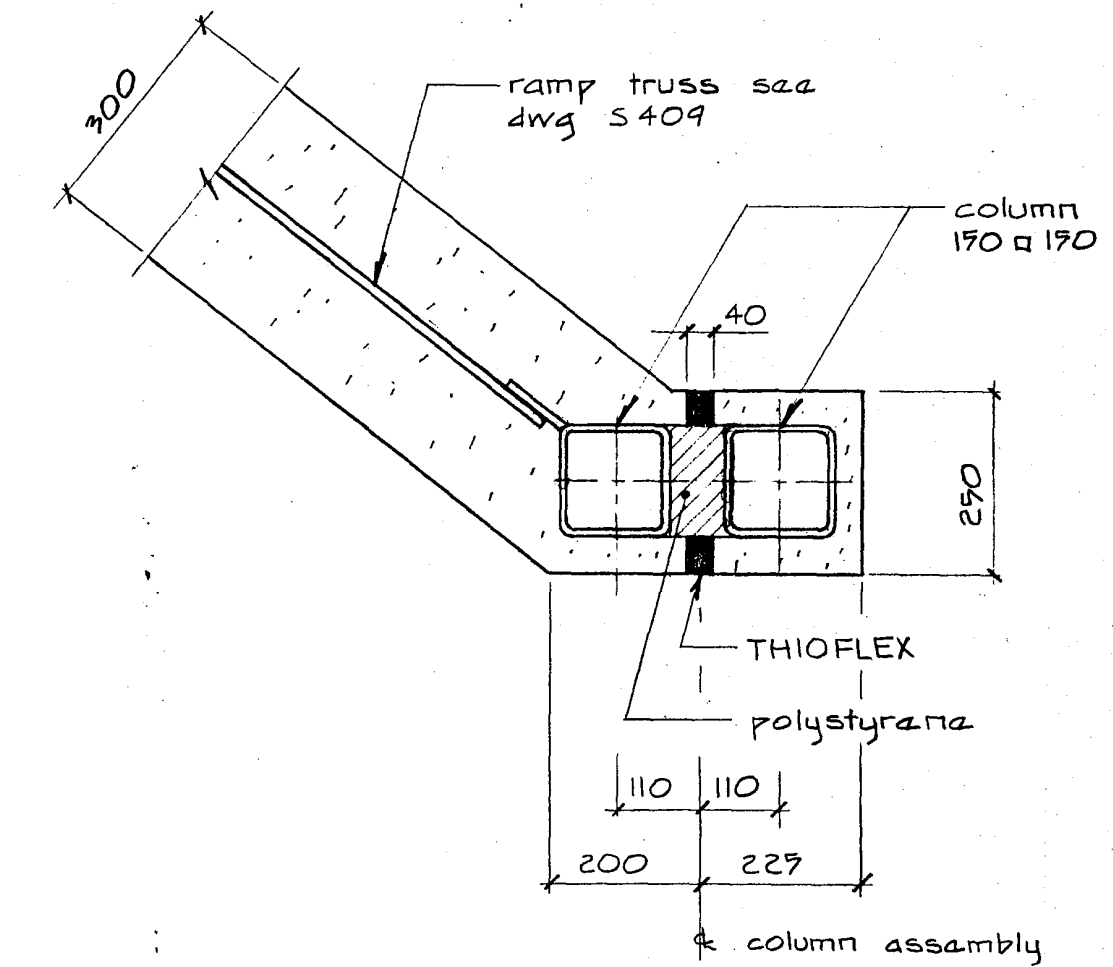
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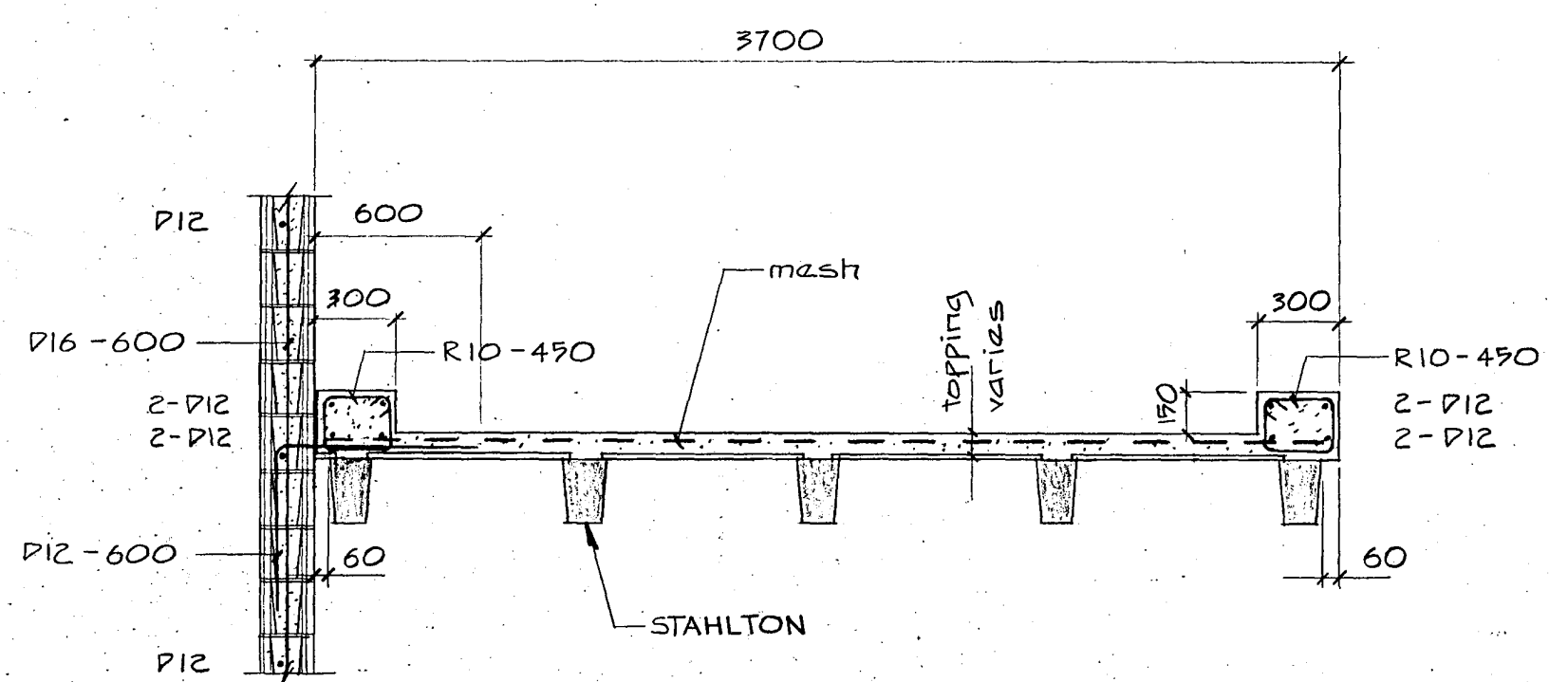
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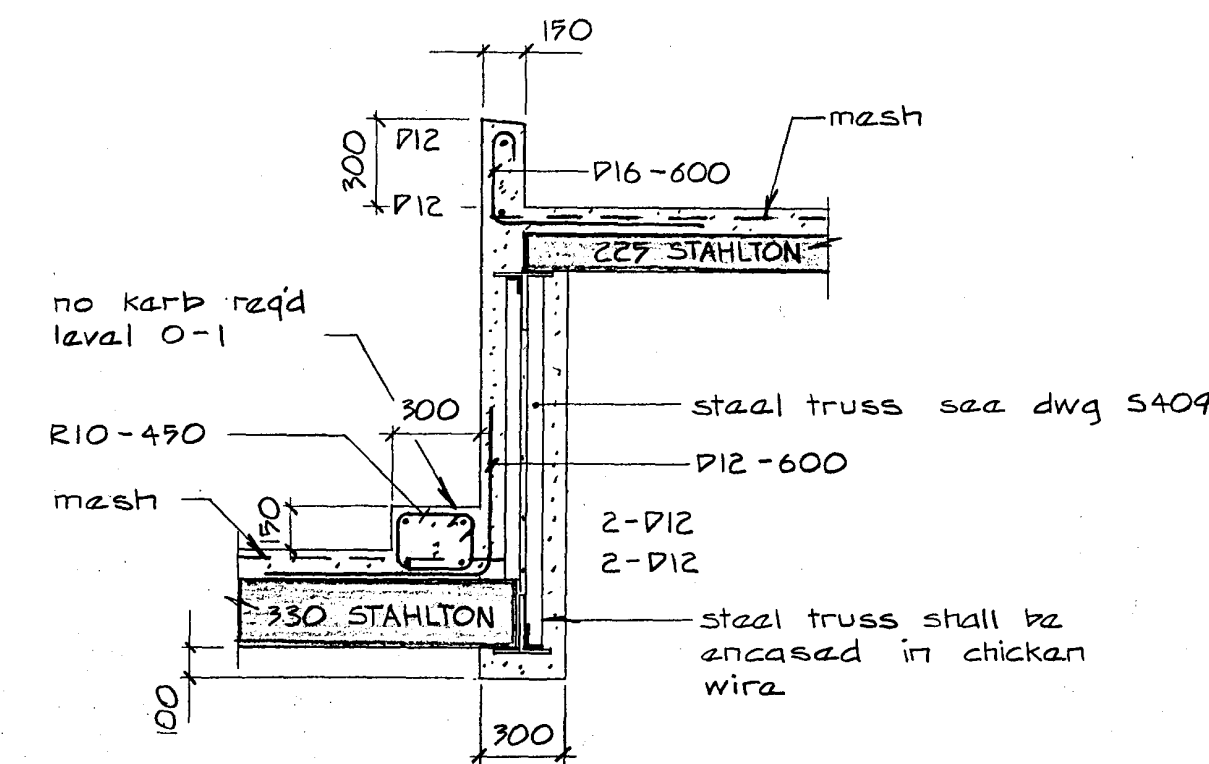
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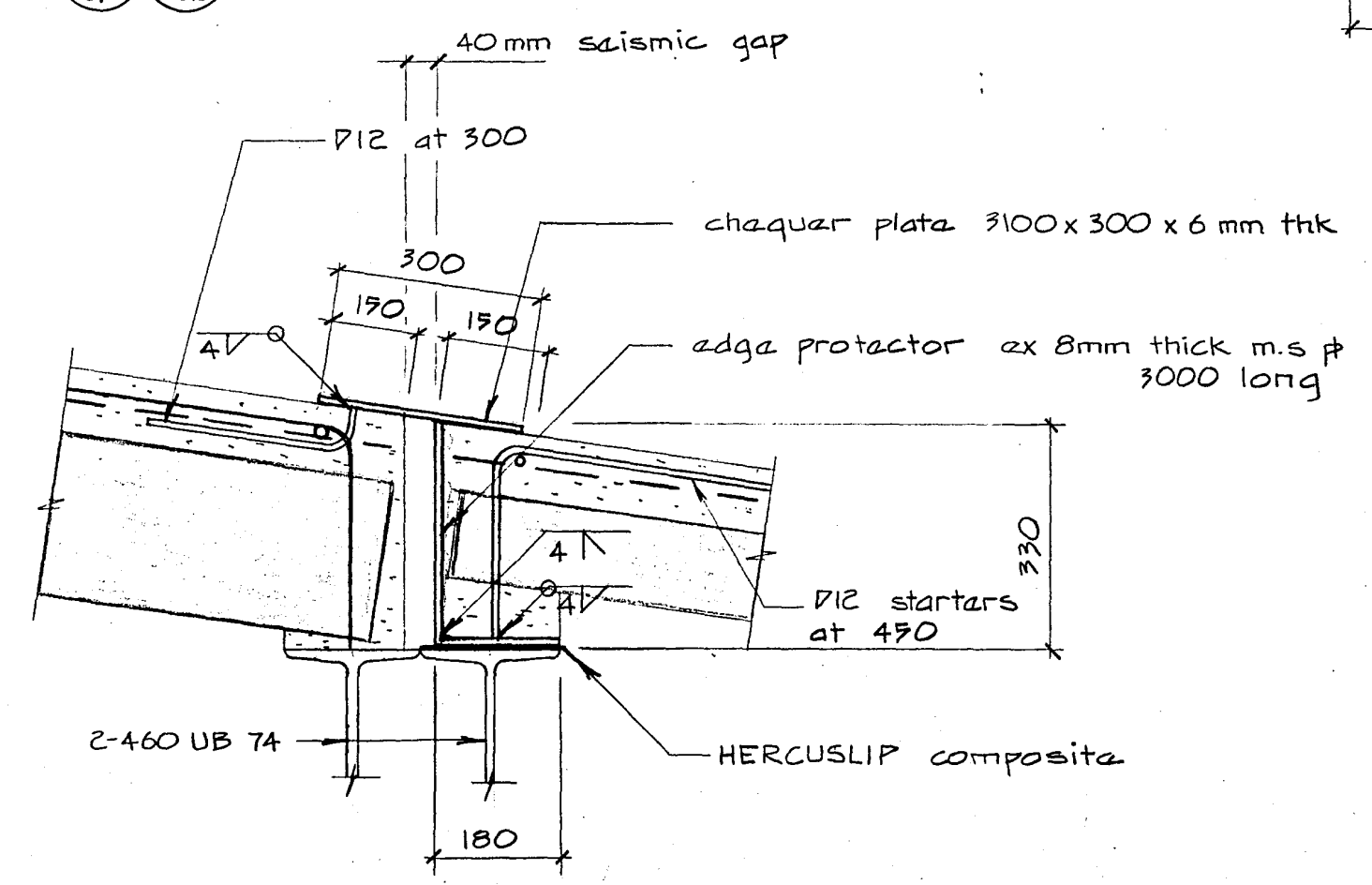
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S310



12  
S311



13  
S311



14  
S311

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Christchurch, Wellington & Auckland

HOLMES CONSULTING GROUP  
STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

# LANDMARK TOWER CHRISTCHURCH

DRAWN: J.W. SCALE: 1:25 1:10  
APPROVED: R.A.P.

SHEET TITLE:  
RAMP DETAILS

JOB NO: 2281 SHEET NO: S 312 REV: 1

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
For Engineer

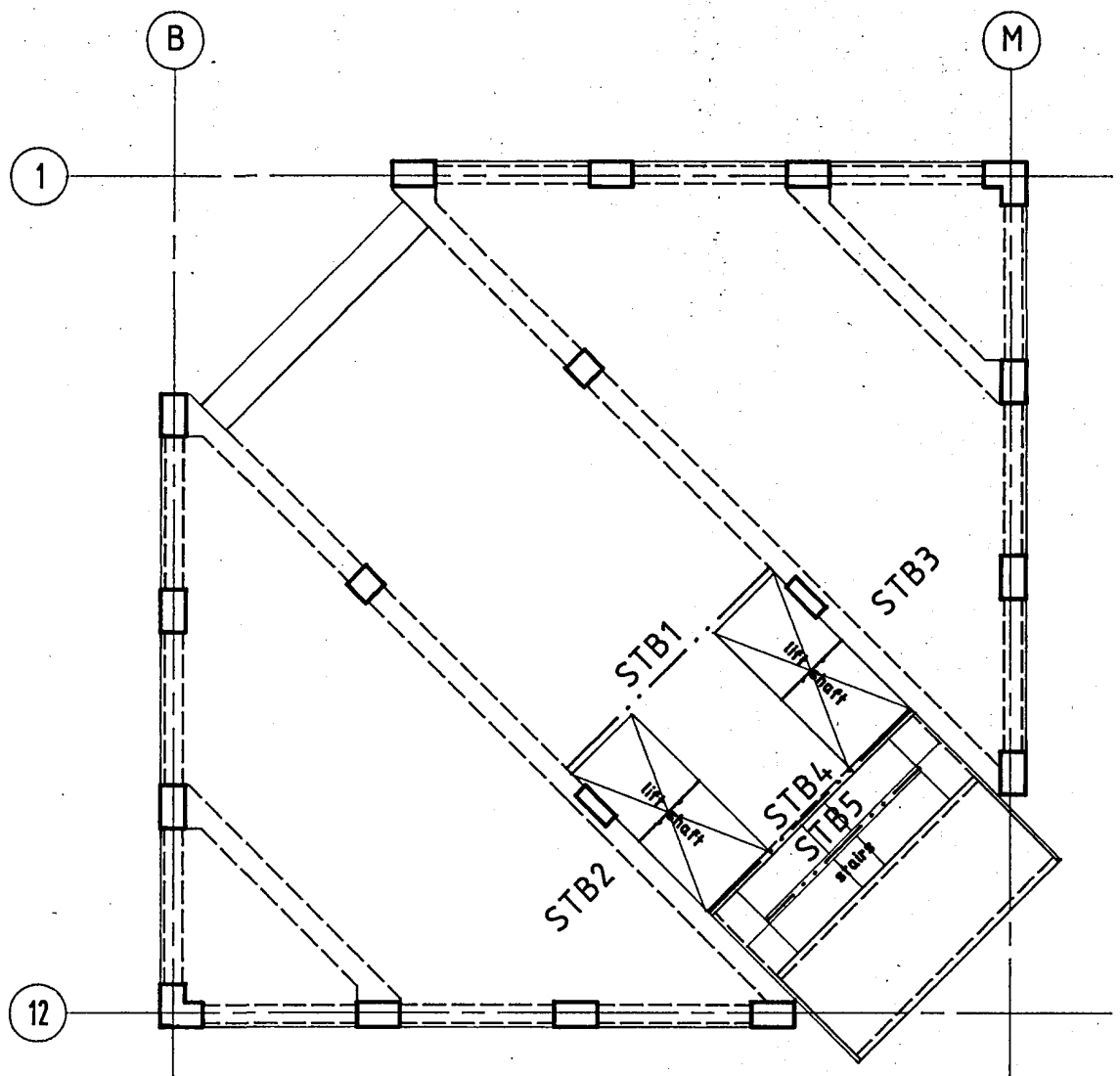
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For package number

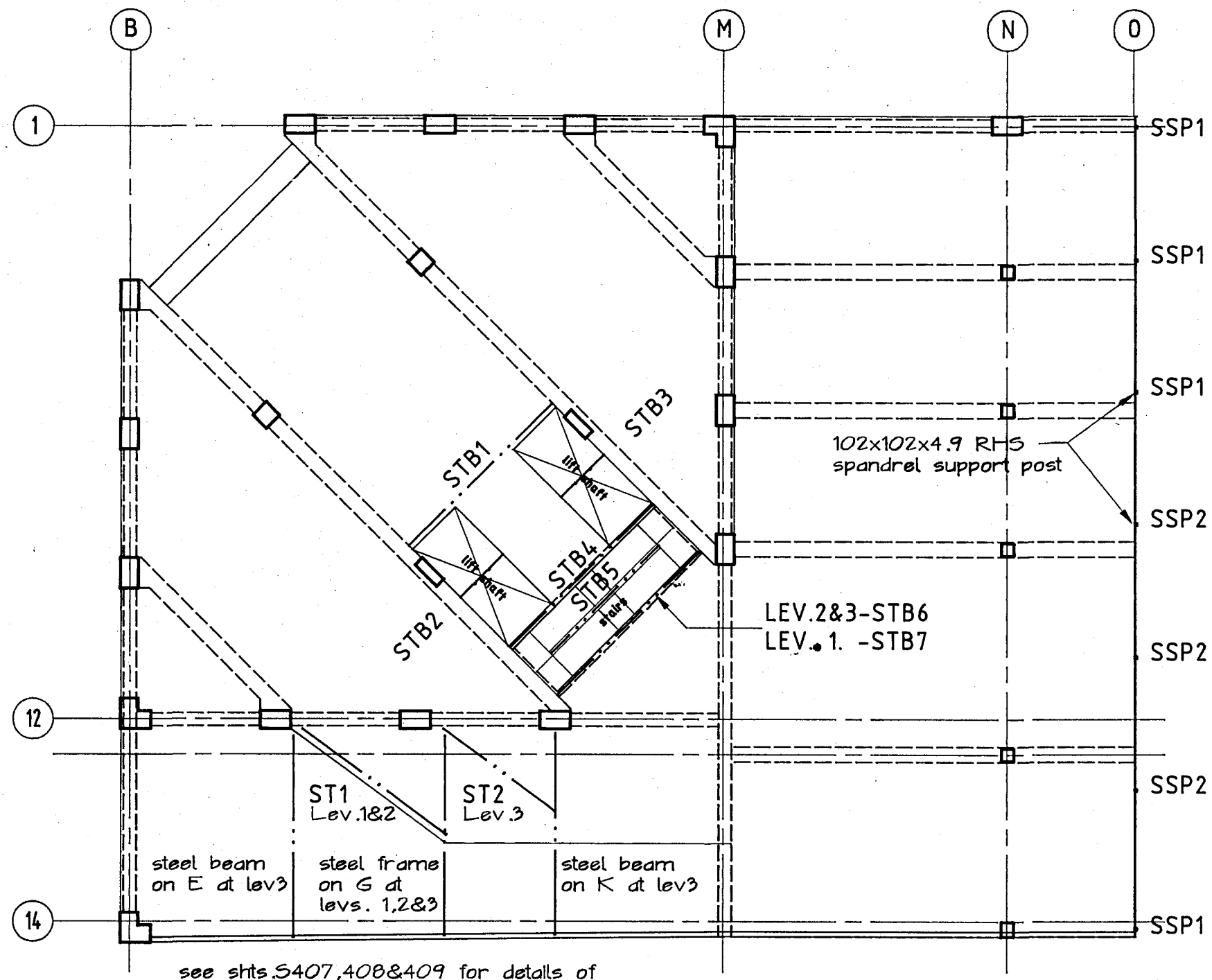
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Rev. Date Amendment

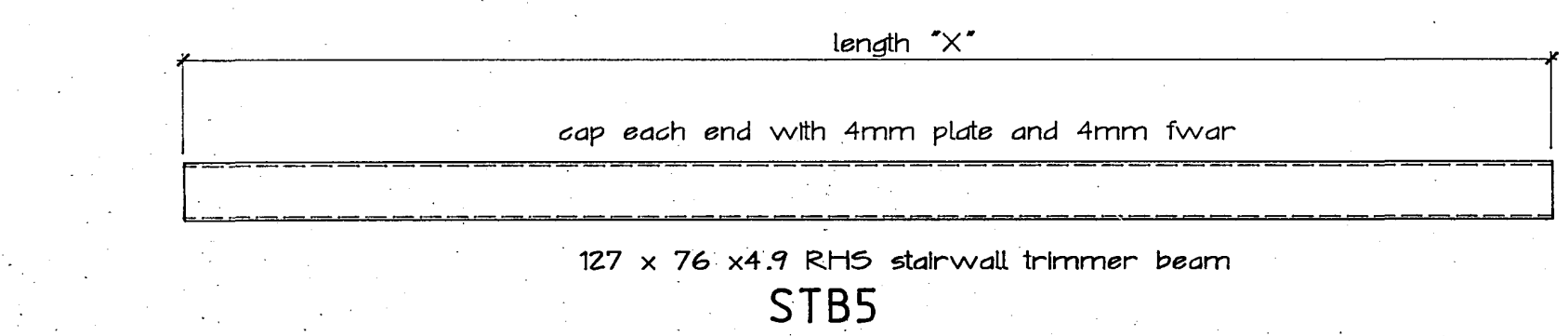
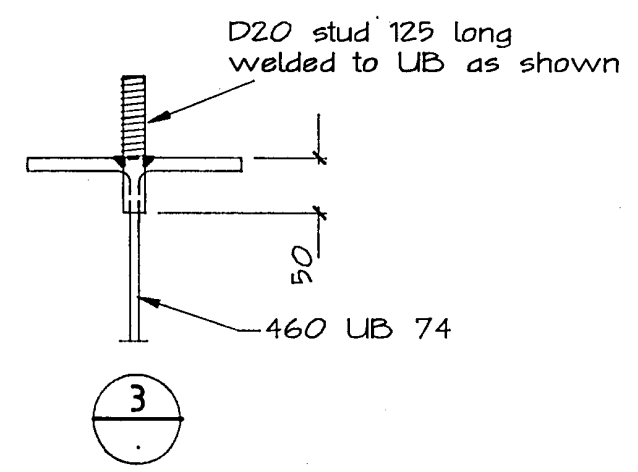
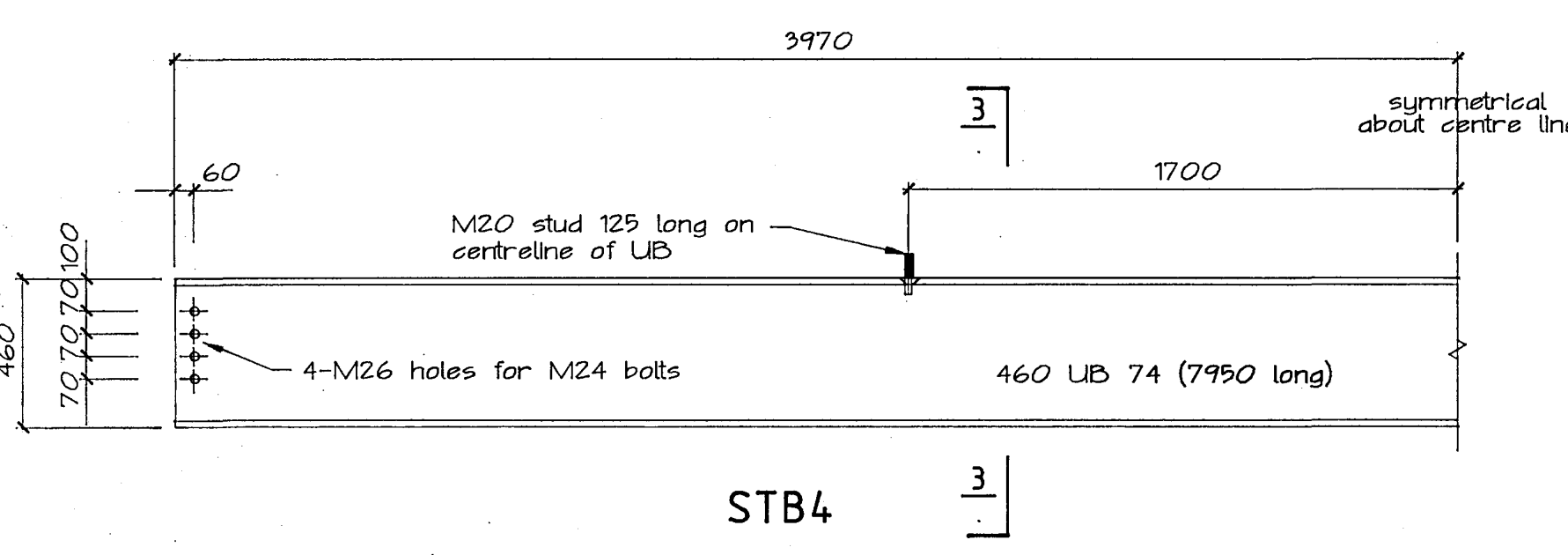
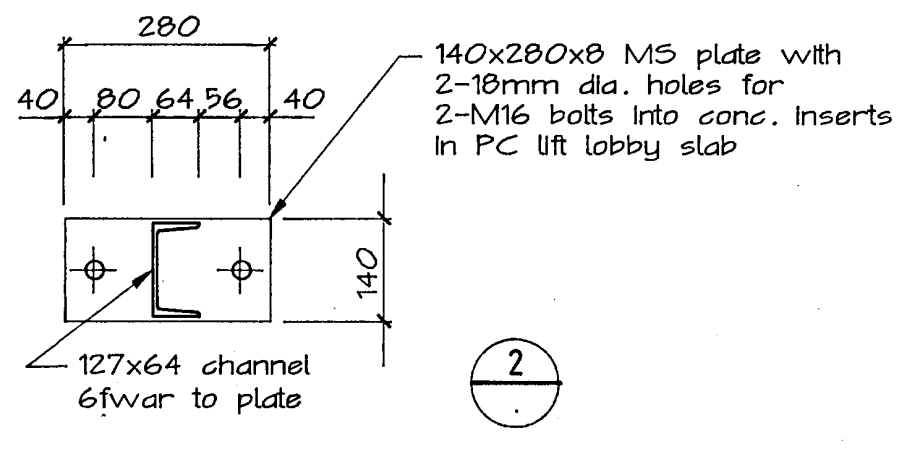
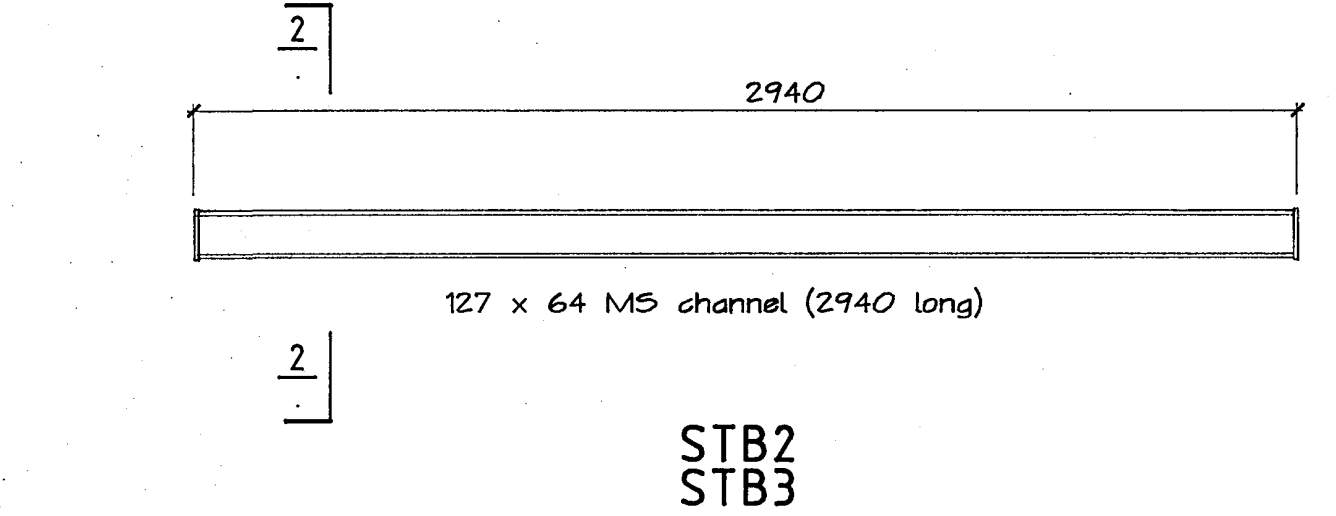
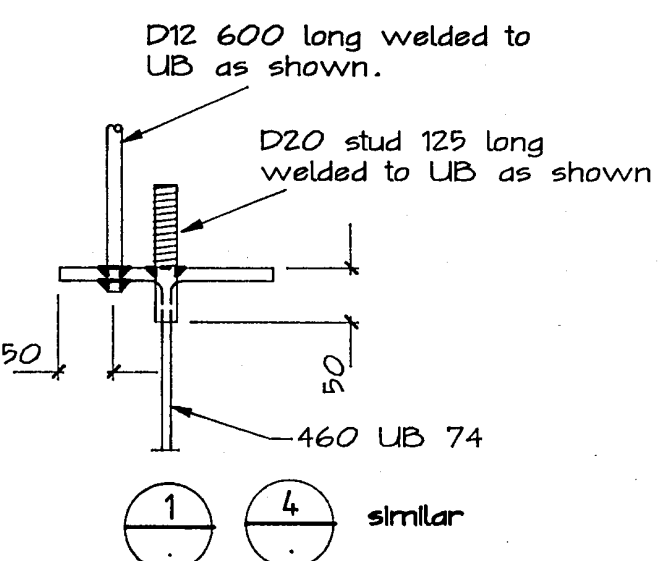
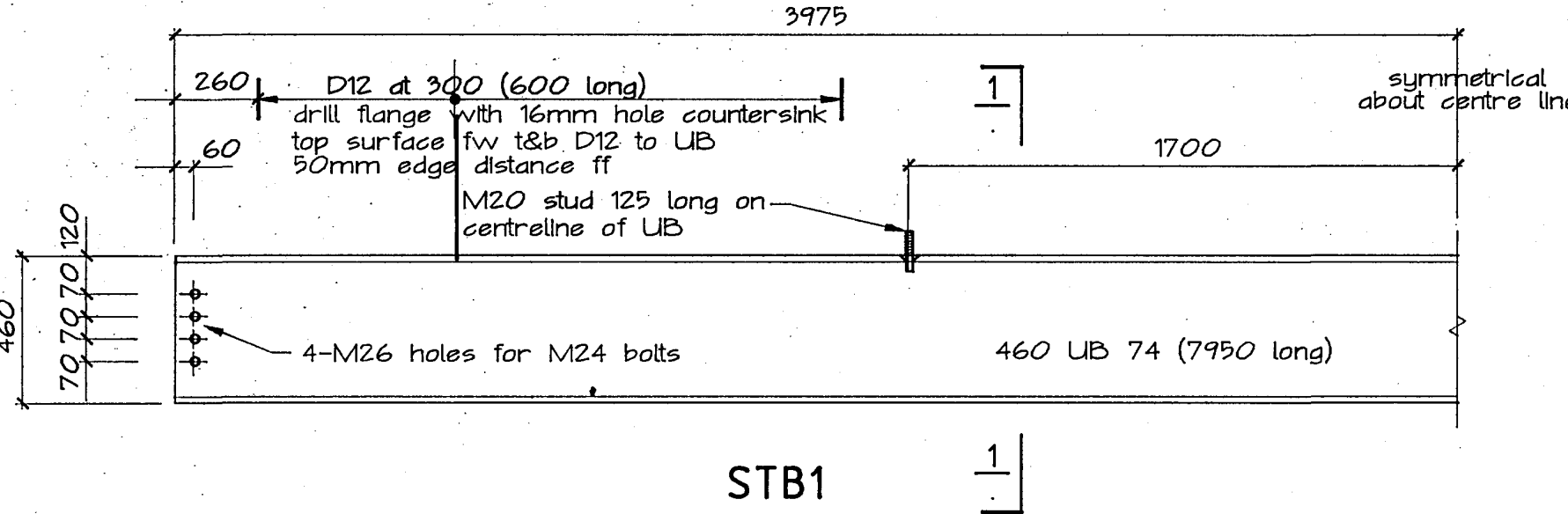
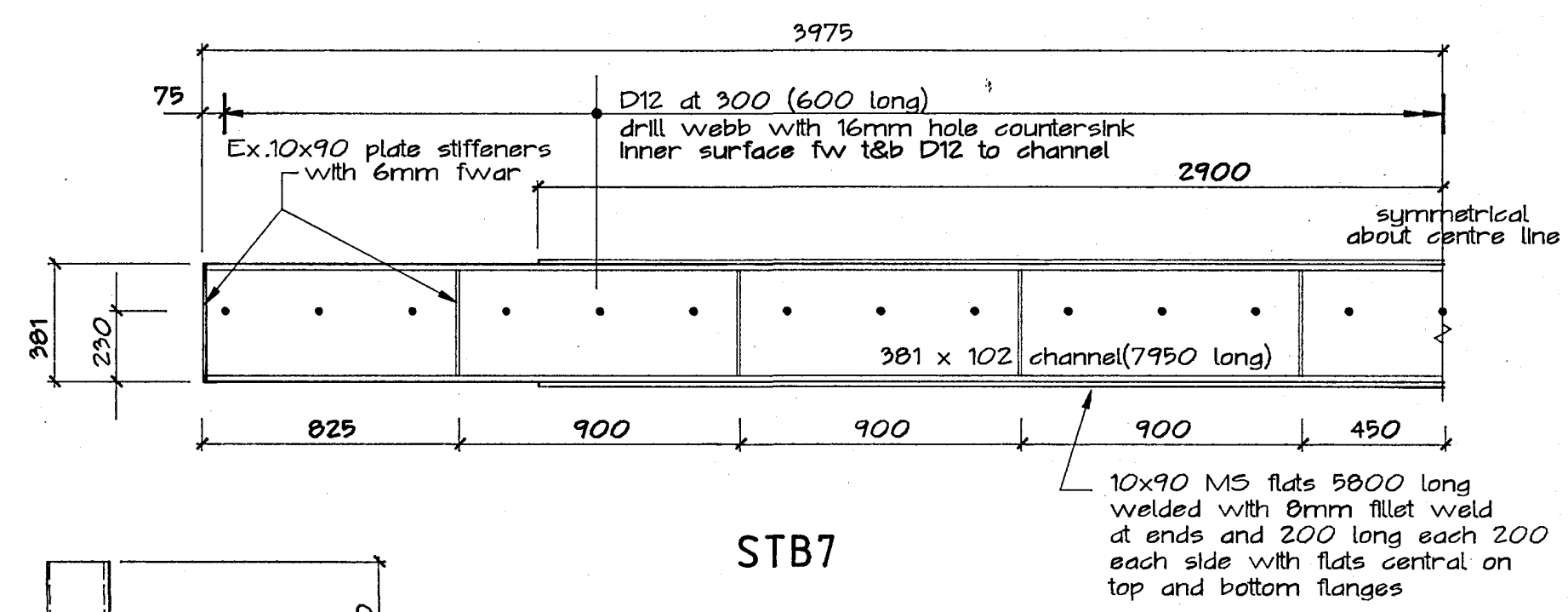
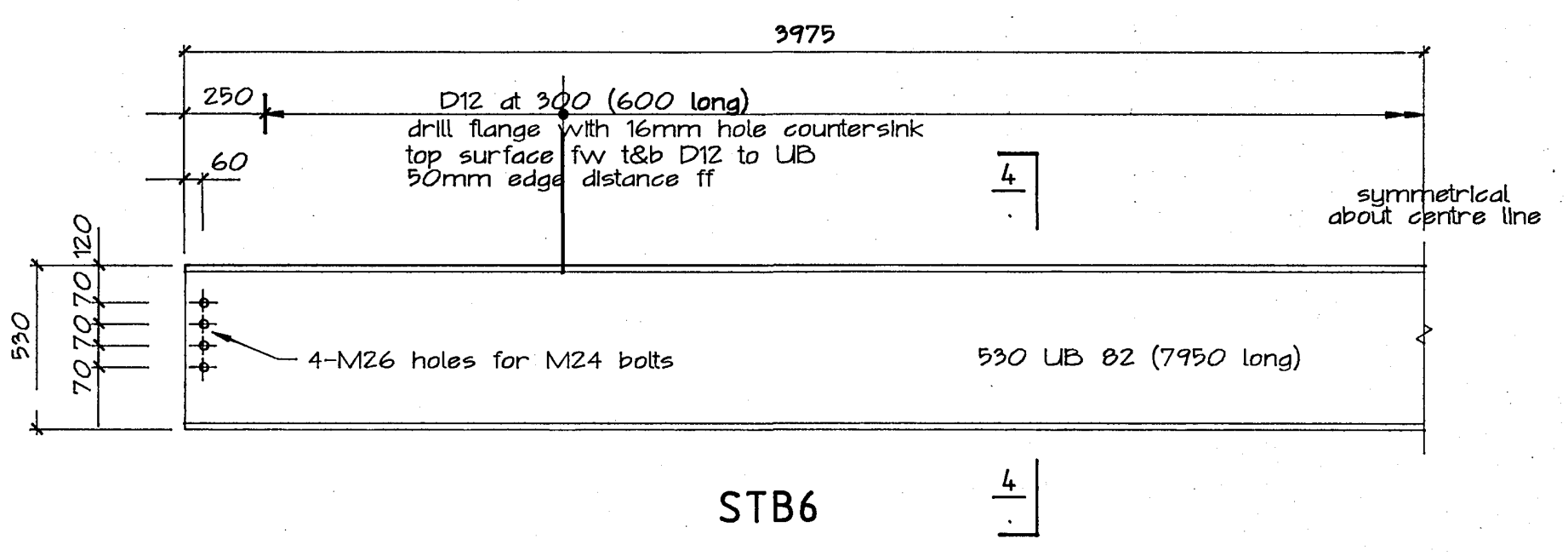
1	4/3/00	permit
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key plan - levels 4 to 20



key plan - levels 1 to 3



LEVEL	LENGTH "X"
levels 5 to 20	6980mm
levels 3 and 4	5560mm
level 2	7210mm
level 1	7700mm

cap RHS with 4mm plate with 4 fwar grind smooth

RL 25.840 lev.3

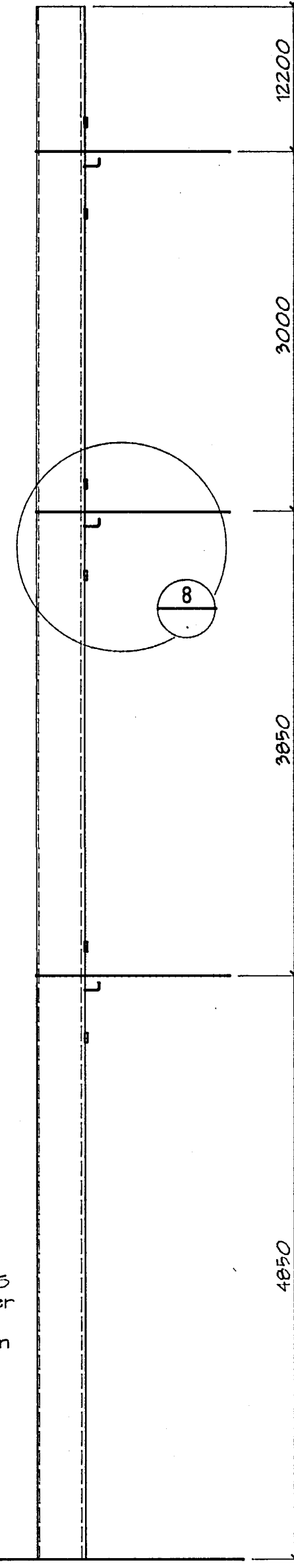
RL 22.840 lev.2

102x102x4.9 RHS spandrel support post

RL 18.840 lev.1

bottom section of RHS will be cut away after construction of the podium and the bottom exposed end capped as top

RL 14.140 lev.0



102x102x4.9 RHS spandrel support posts SSP1 and SSP2

Warren & Mahoney Architects Ltd  
Christchurch, Wellington & Auckland

HOLMES CONSULTING GROUP  
STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
For Engineer

LANDMARK TOWER  
CHRISTCHURCH

DRAWN: g.a.e SCALE: 1:200, 1:20, 1:10  
APPROVED: R.A.F.

SHEET TITLE:  
TYPICAL FLOORS AND PODIUM  
FLOOR & STAIRWALL BEAMS  
STEELWORK

JOB NO: 2281 SHEET NO: S400 REV: 1

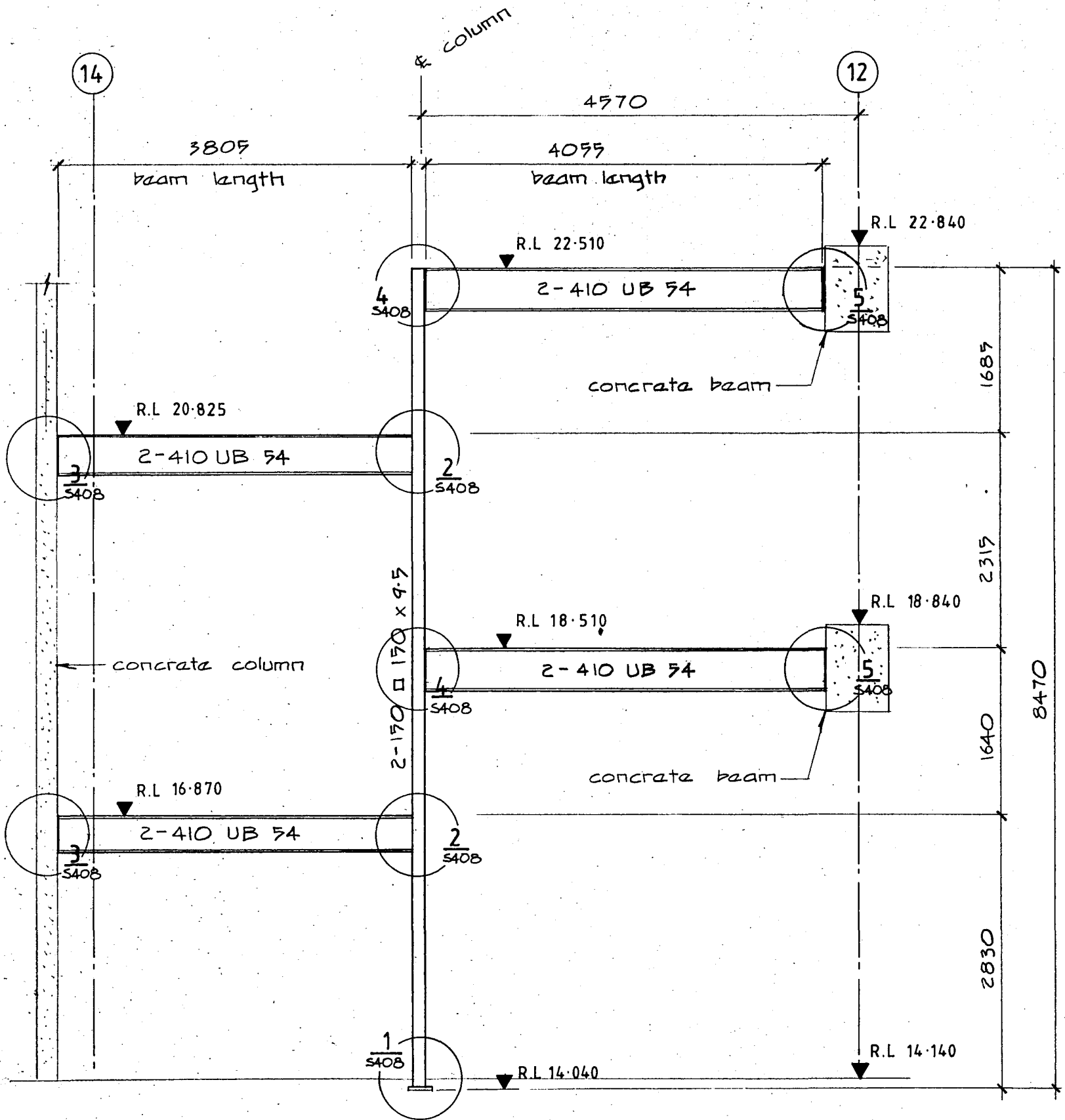


ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

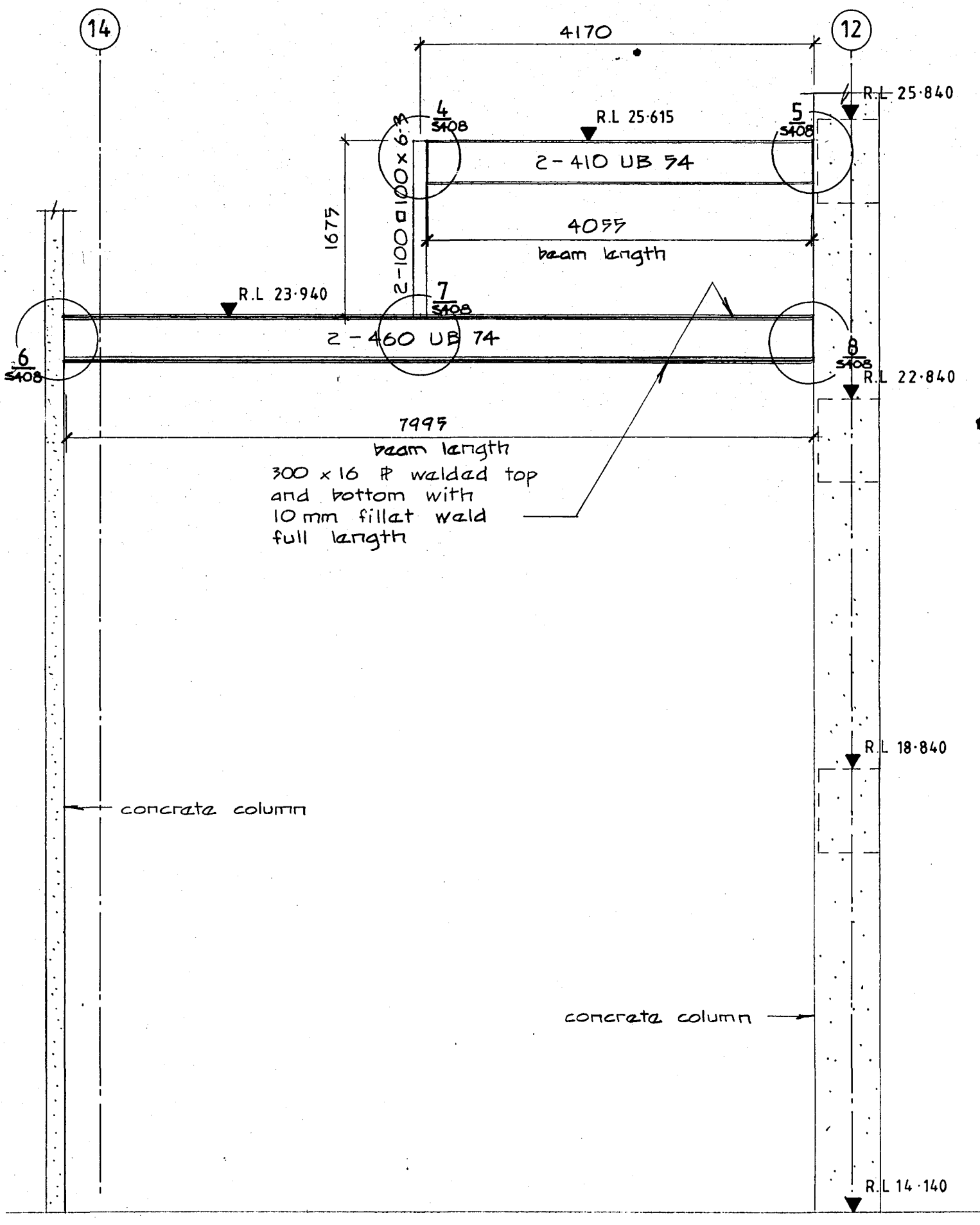
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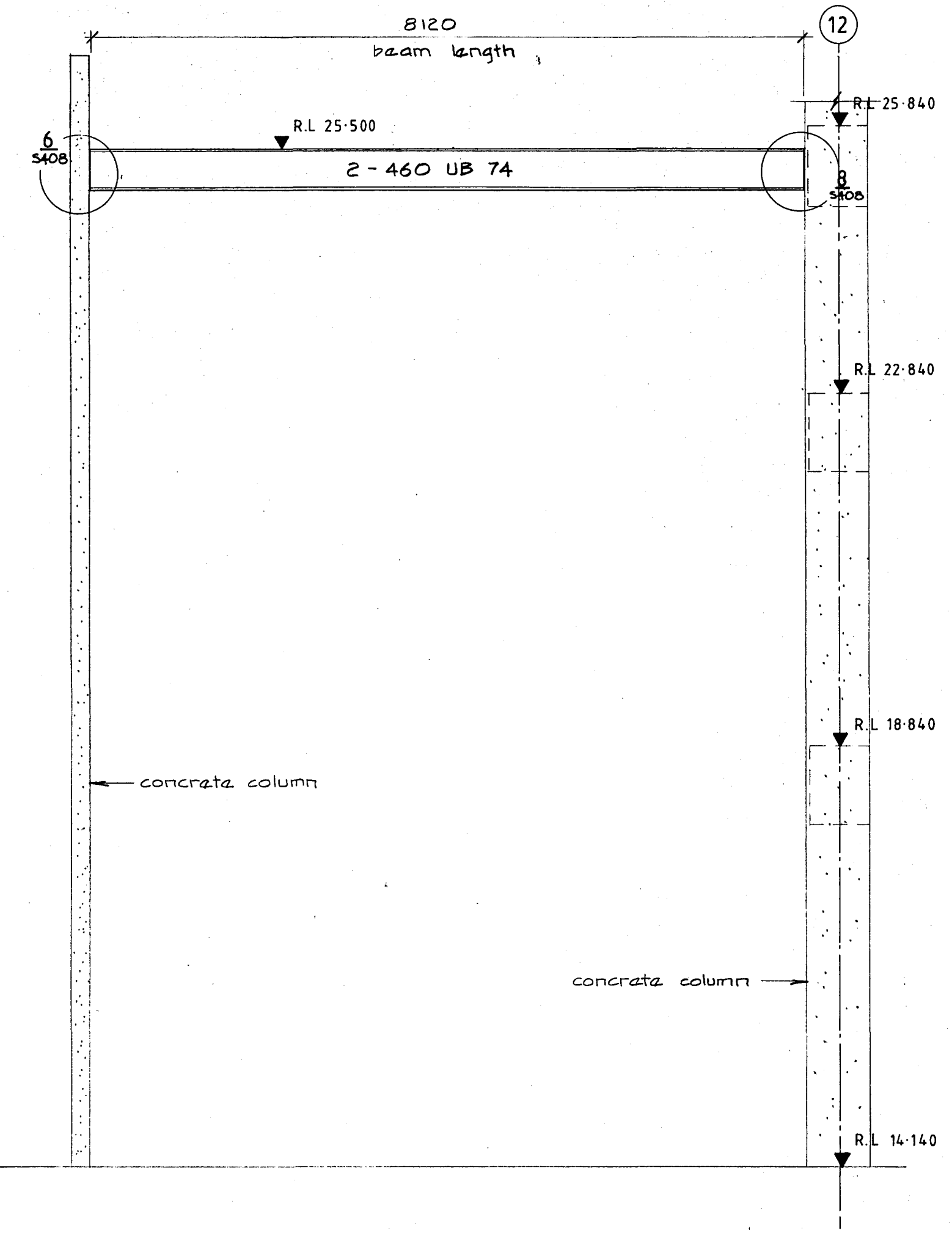
Rev	Date	Amendment
1	4-3-88	Permit



steel beams near line G



steel beams line K



steel beams line E

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Christchurch, Wellington, New Plymouth, Auckland

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
Per Engineer

LANDMARK TOWER  
CHRISTCHURCH

DRAWN: J.W. SCALE: 1:50  
APPROVED: R.A.P.

SHEET TITLE  
STEEL BEAM ELEVATIONS  
LINES E, G & K

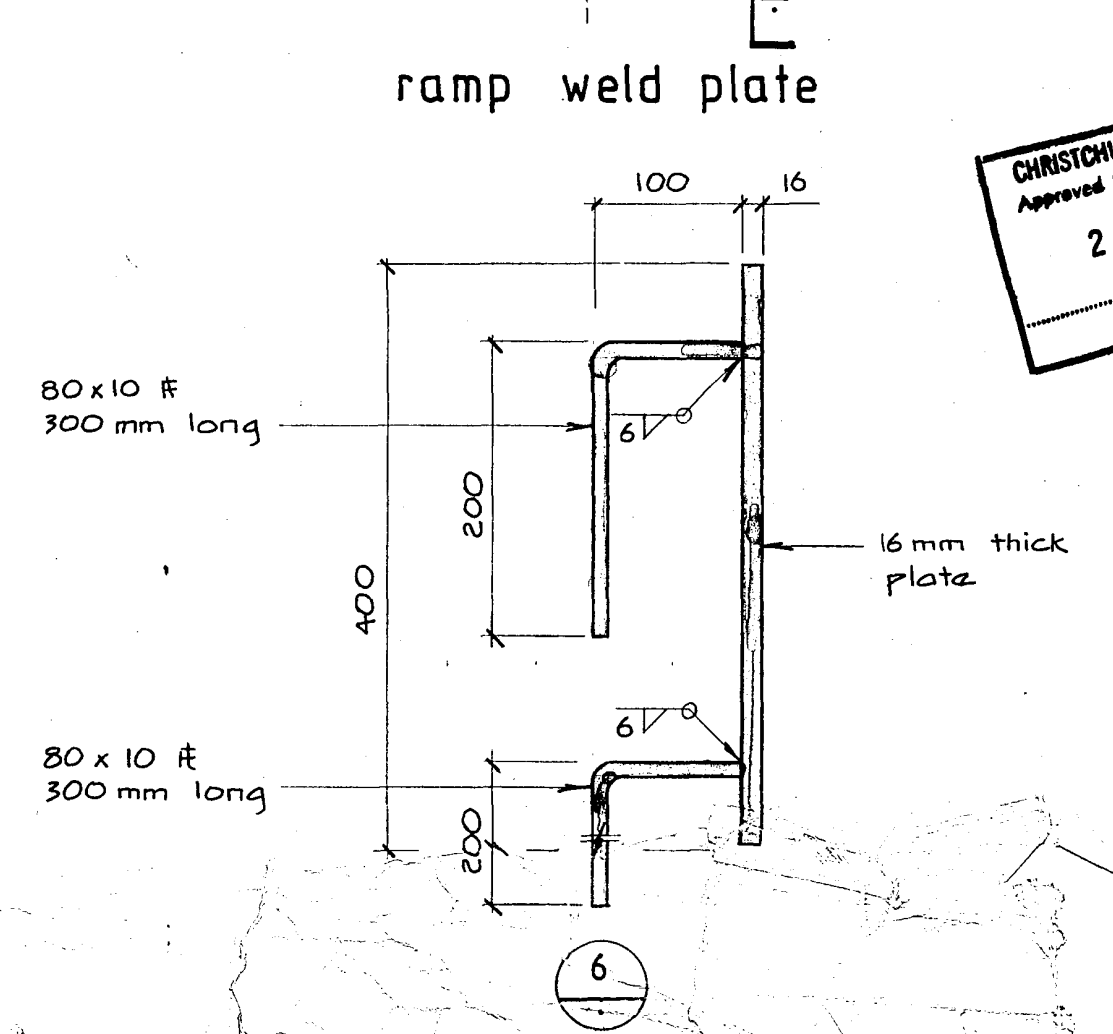
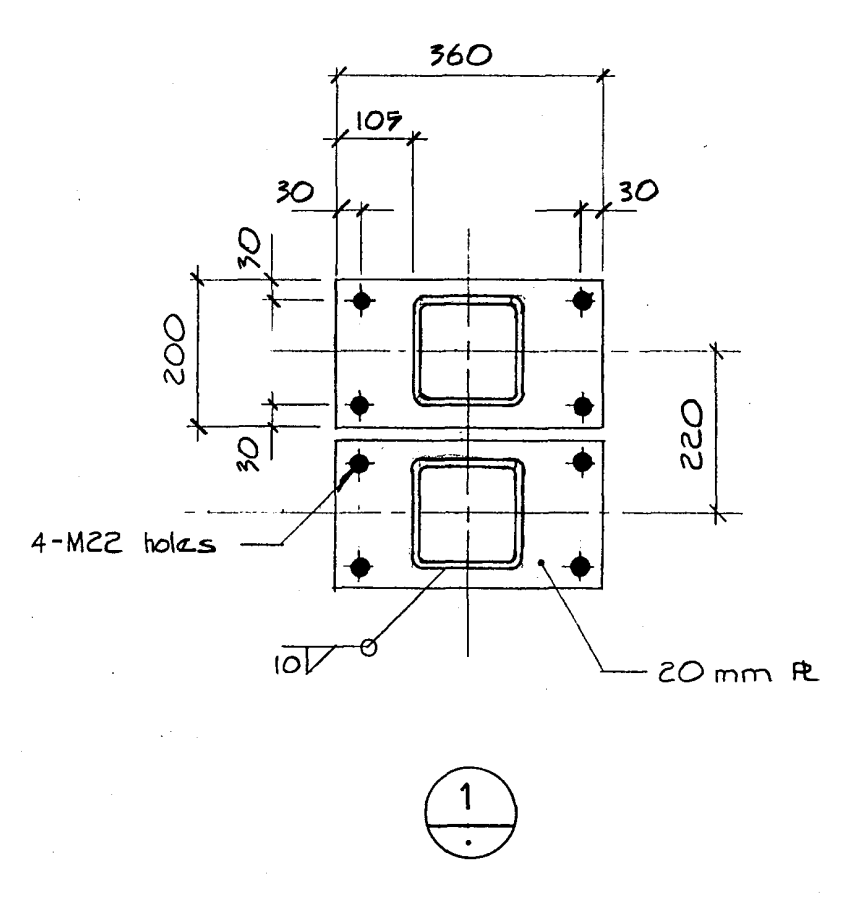
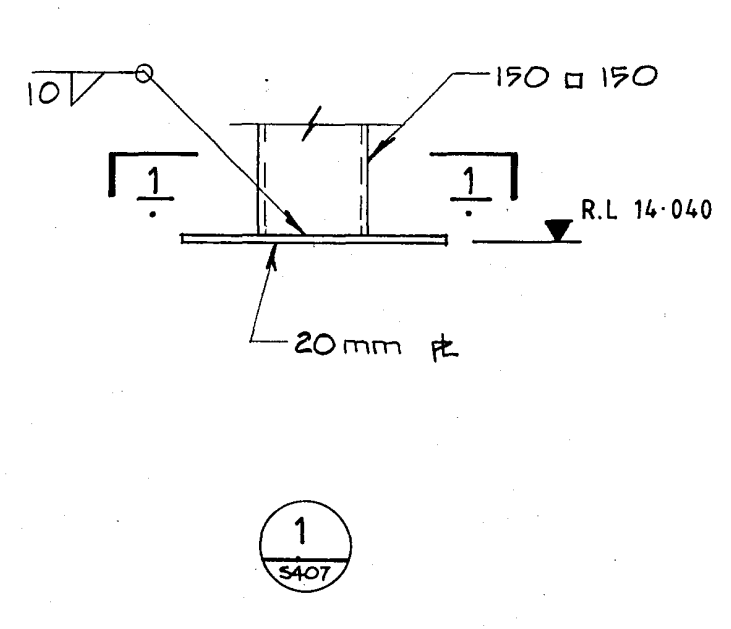
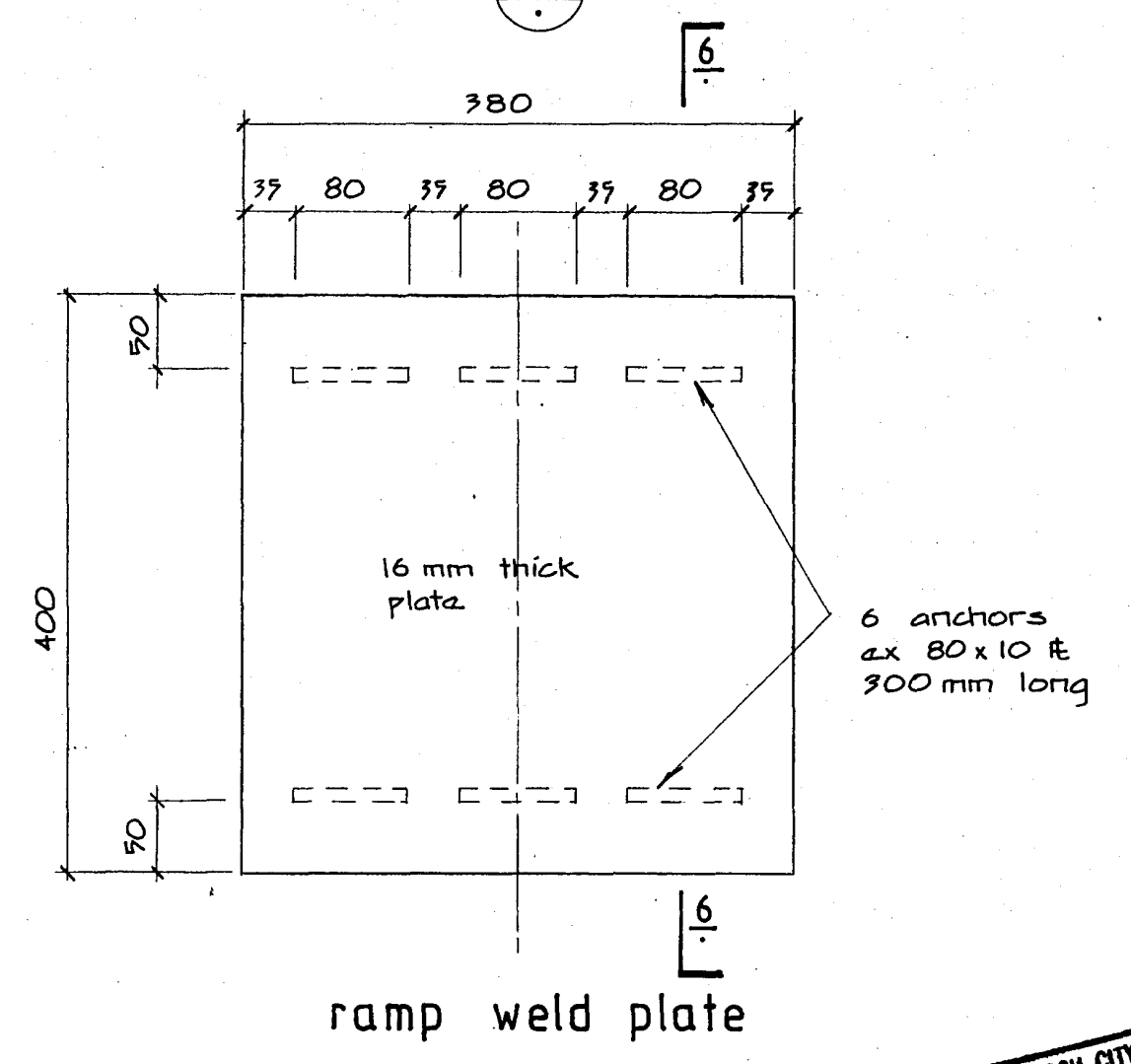
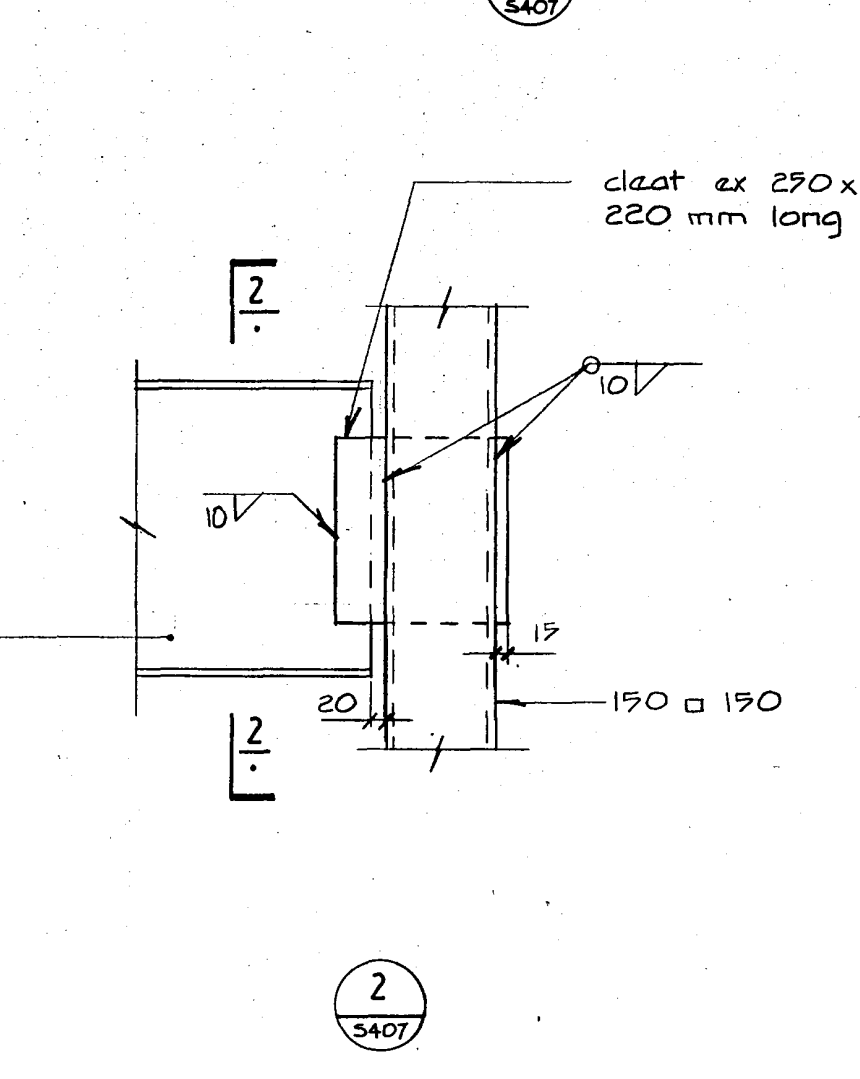
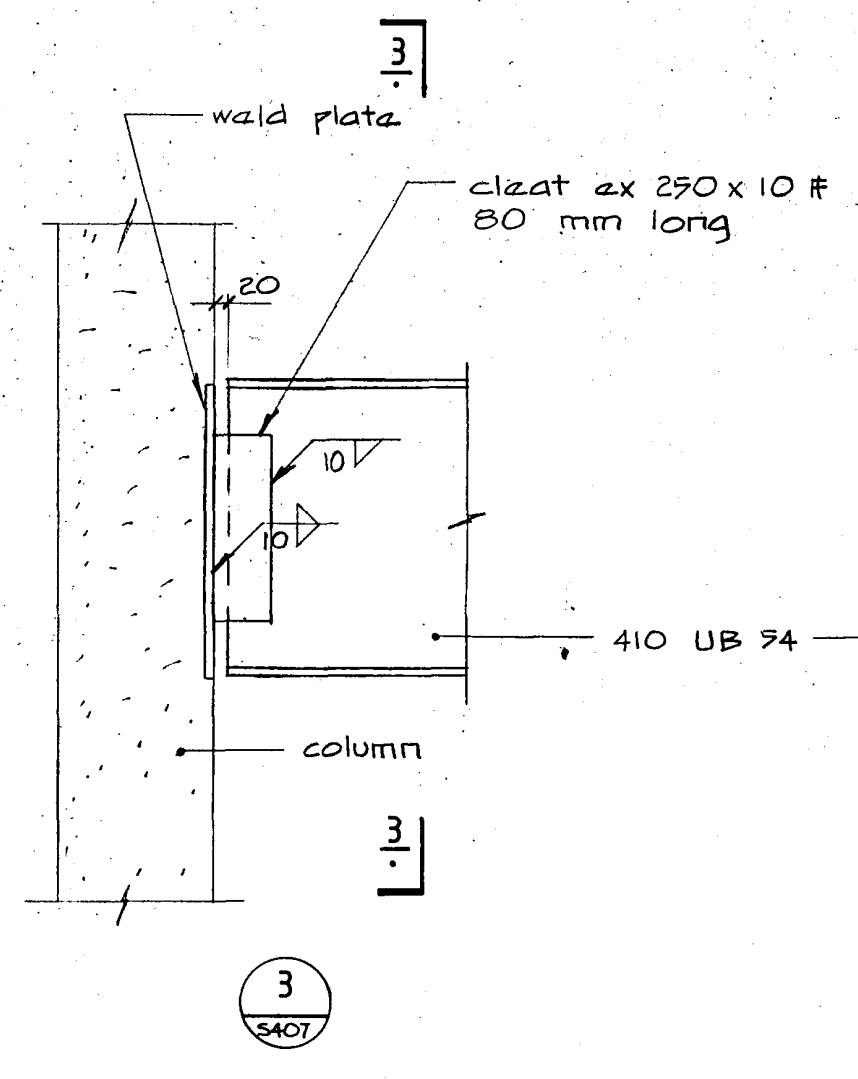
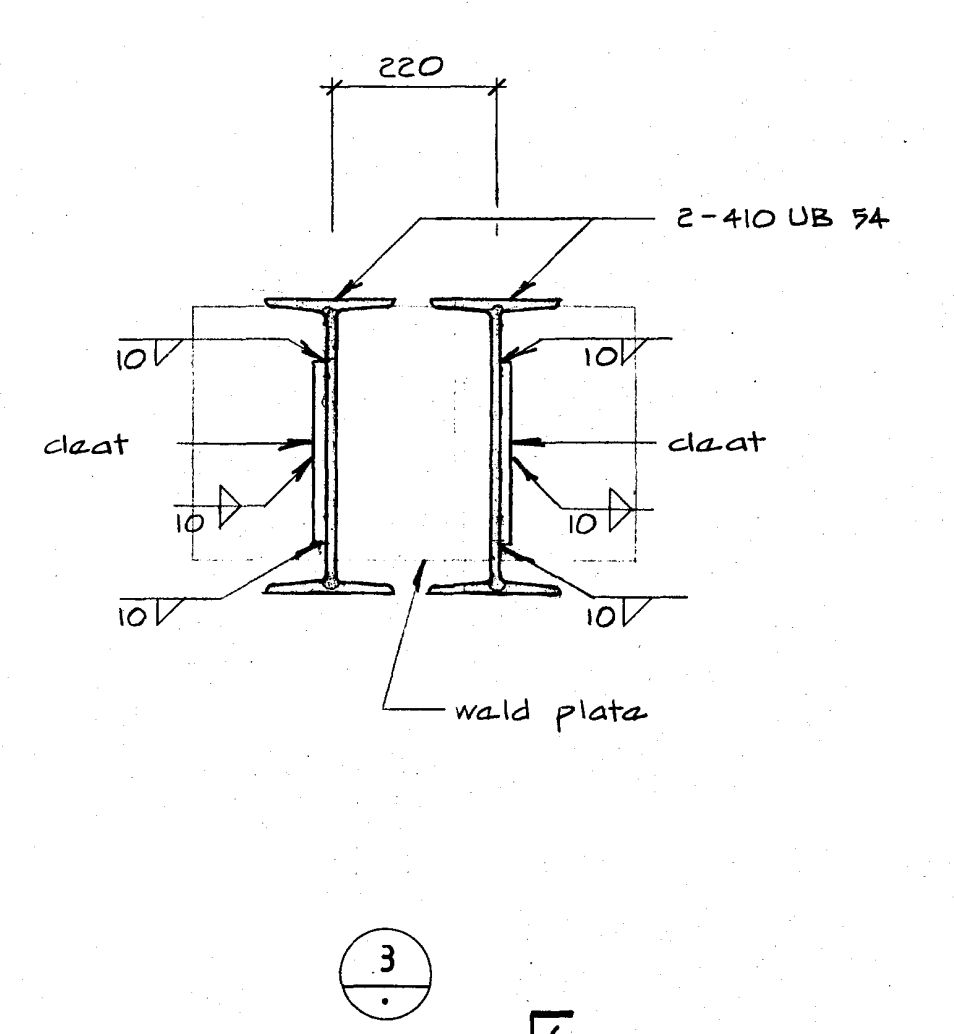
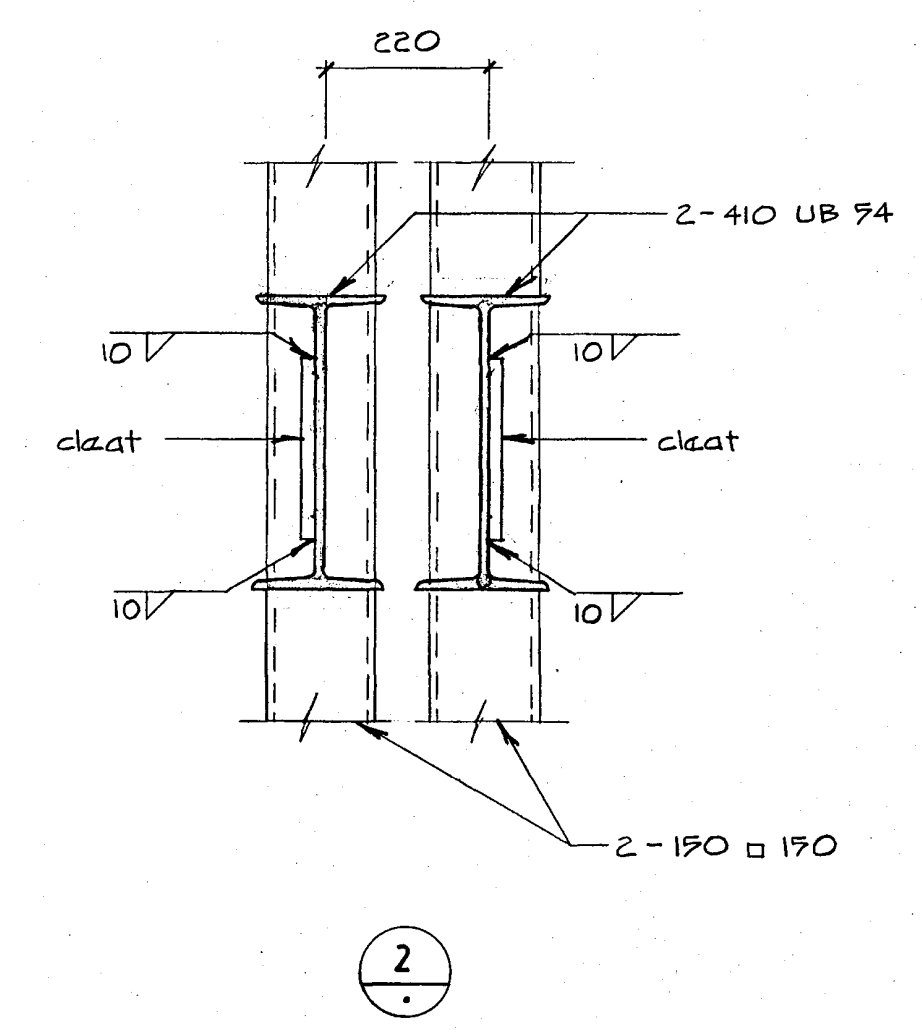
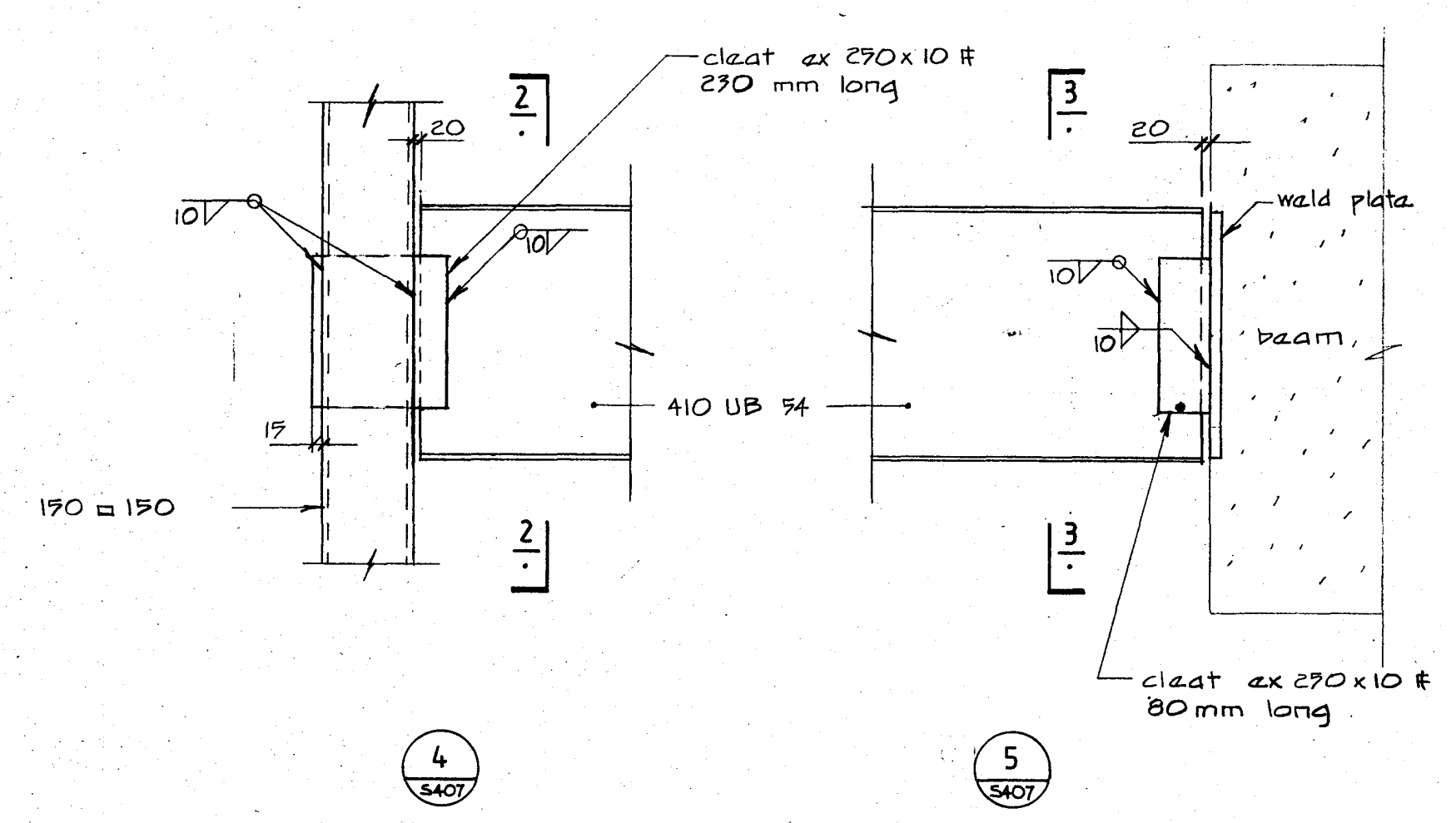
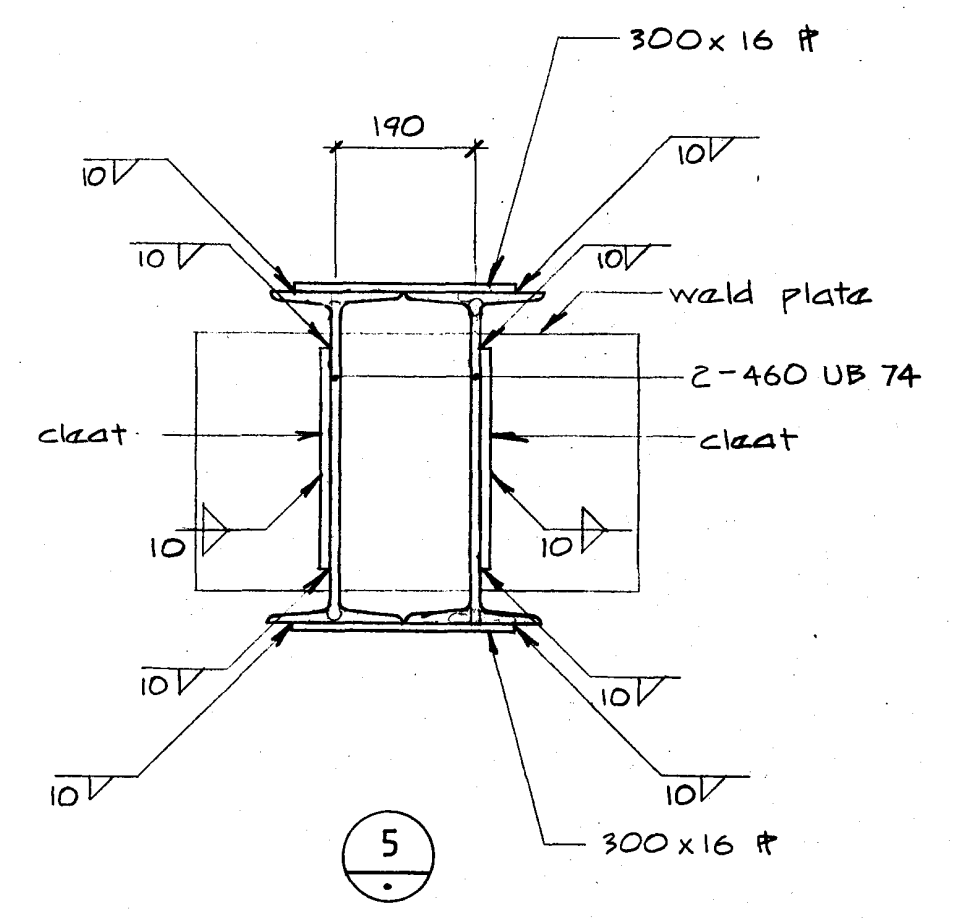
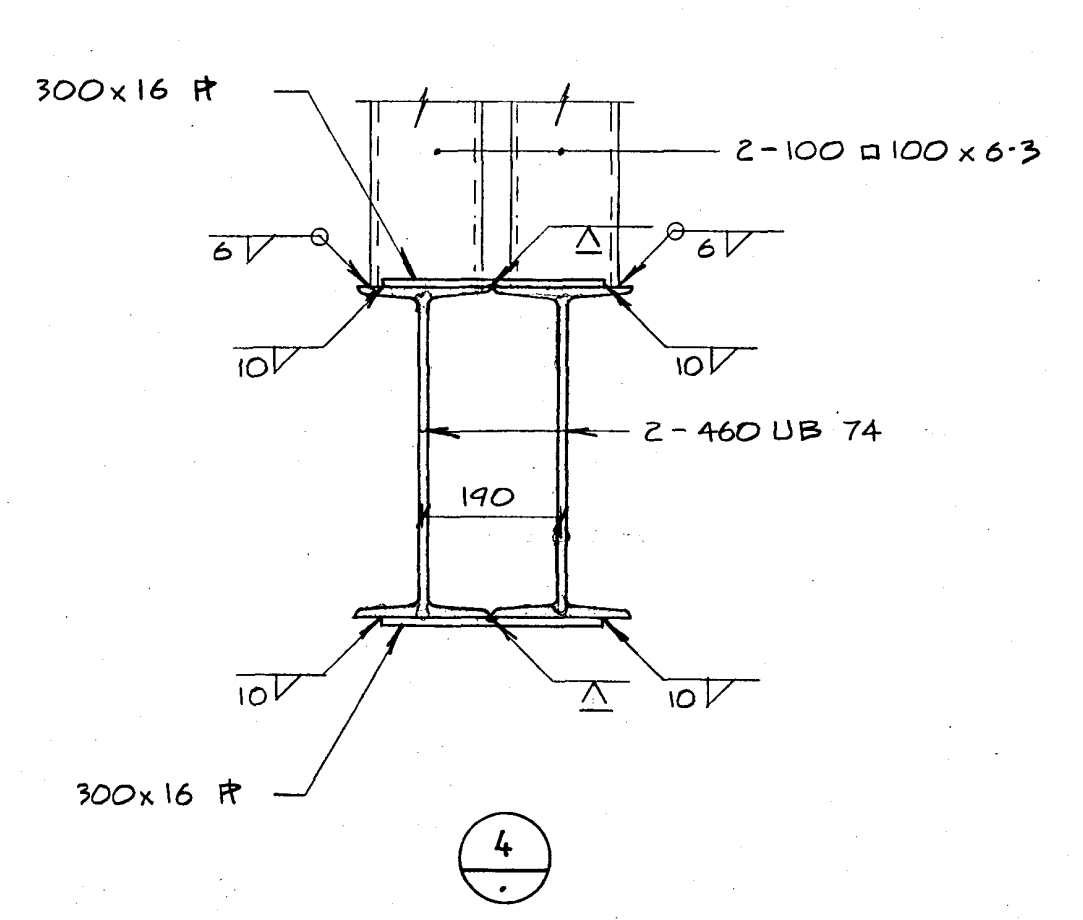
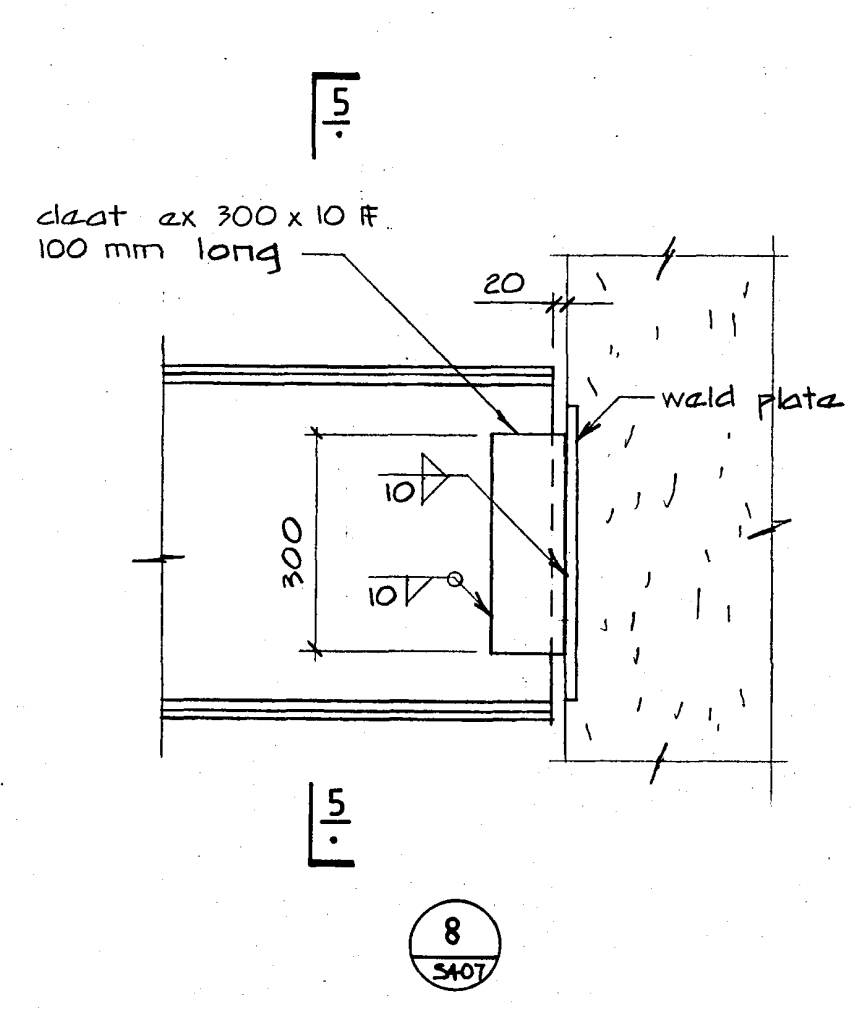
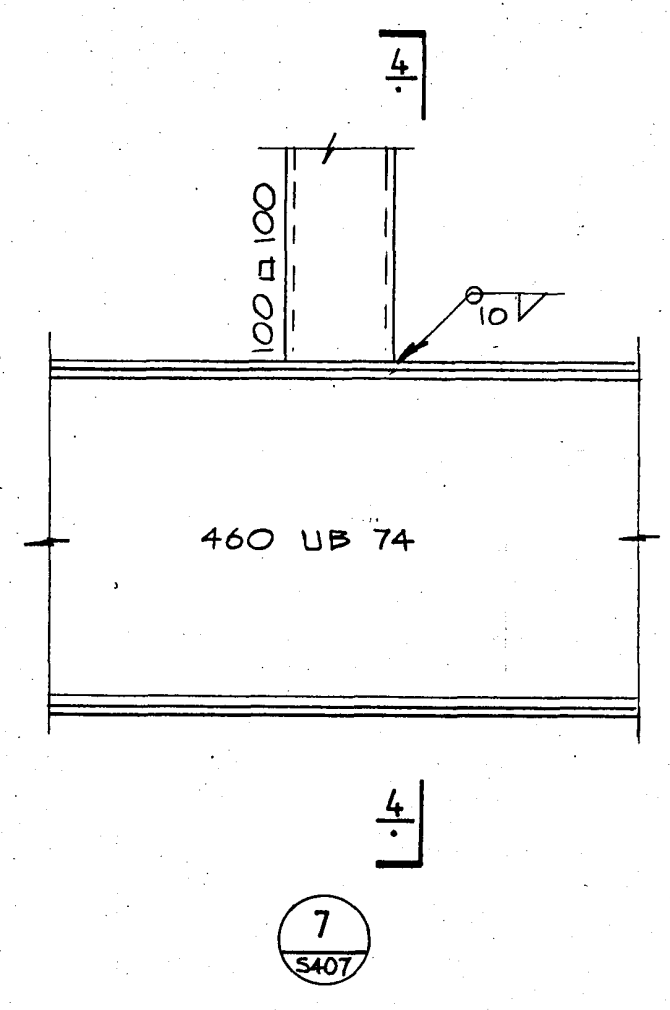
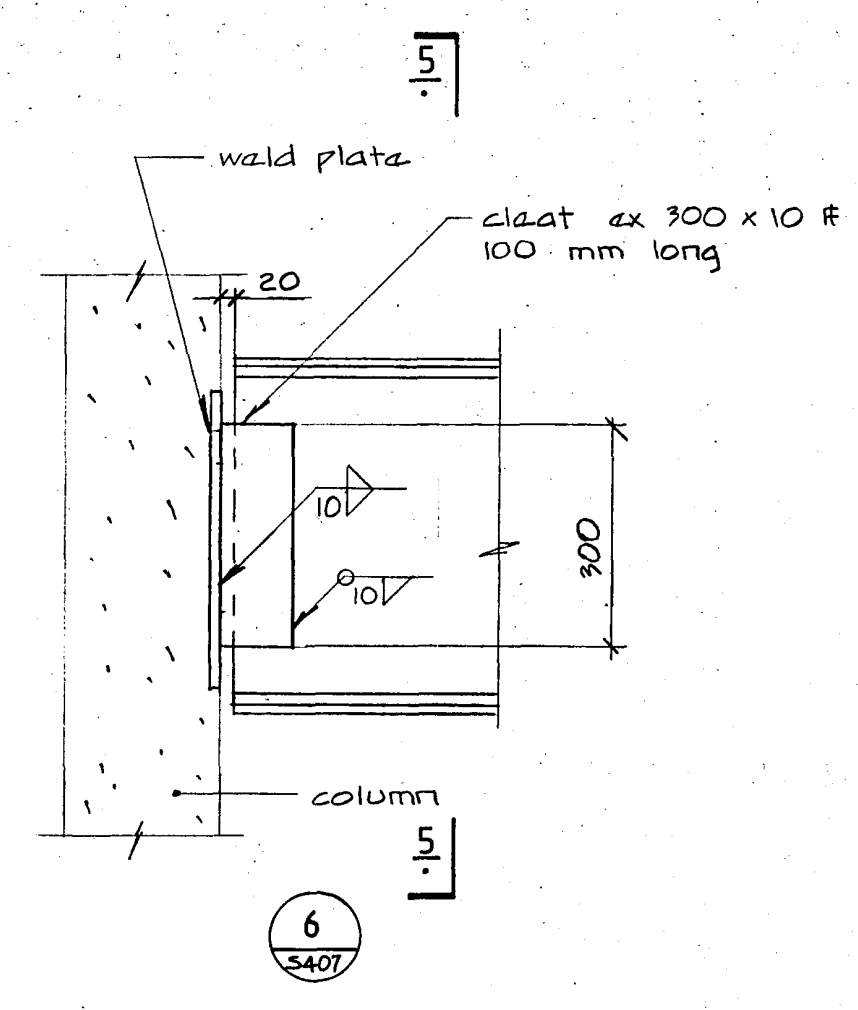
JOB NO: 2281 SHEET NO: S 407 REV: 1

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

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Rev	Date	Amendment
1	4-3-88	Permit



Warren & Mahoney Architects Ltd  
Christchurch Wellington & Auckland

HOLMES CONSULTING GROUP  
STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-laws  
26 APR 1988  
R. P. Engineer

LANDMARK TOWER  
CHRISTCHURCH

DRAWN: J.W SCALE: 1:10  
APPROVED: R.A.P.

SHEET TITLE  
STEEL BEAM DETAILS

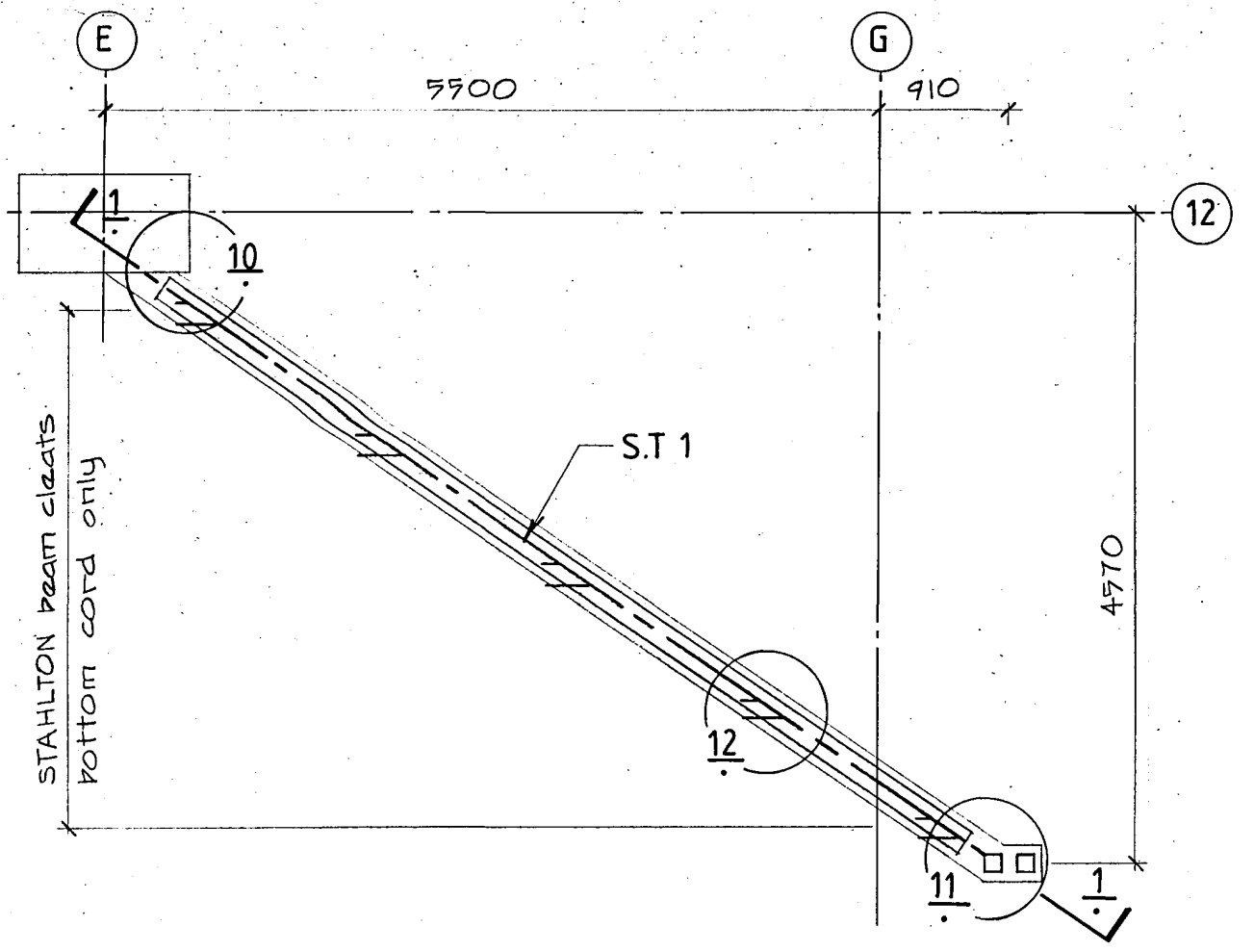
JOB NO: 2221 SHEET NO: S408

ALL DIMENSIONS TO BE VERIFIED ON SITE  
BEFORE MAKING ANY SHOP DRAWINGS OR  
COMMENCING ANY WORK

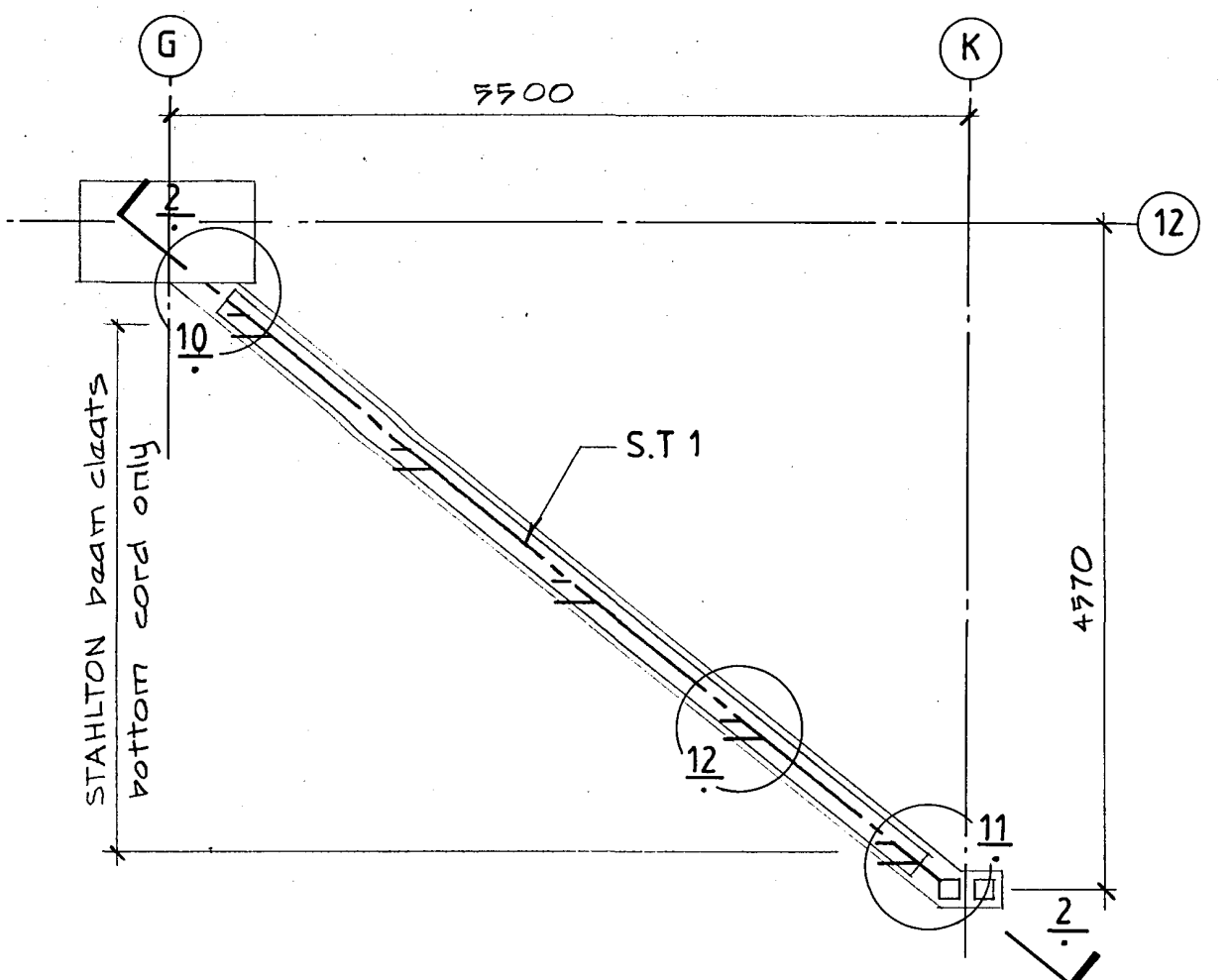
For package number

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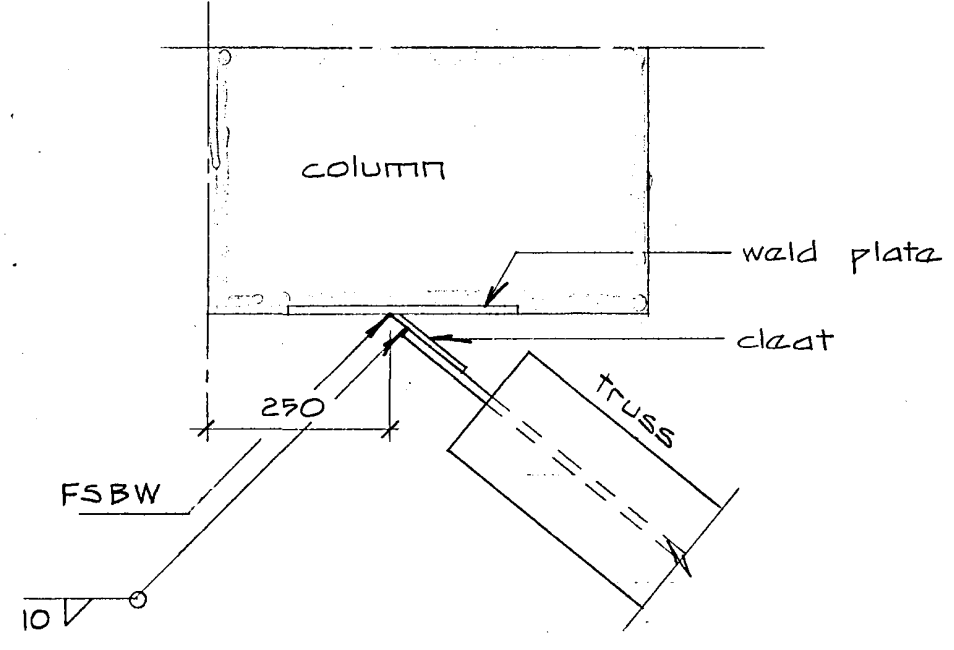
Rev	Date	Amendment
1	4-3-88	Permit



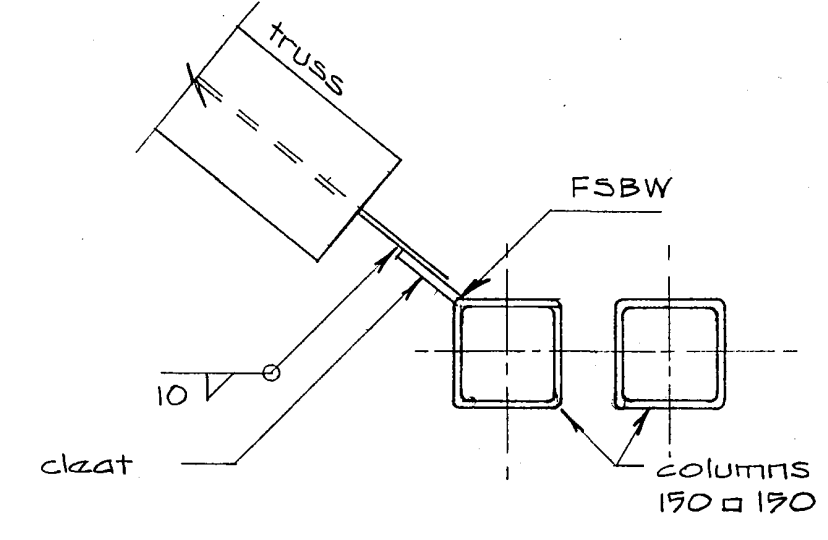
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(level 0-1 and level 1-2)



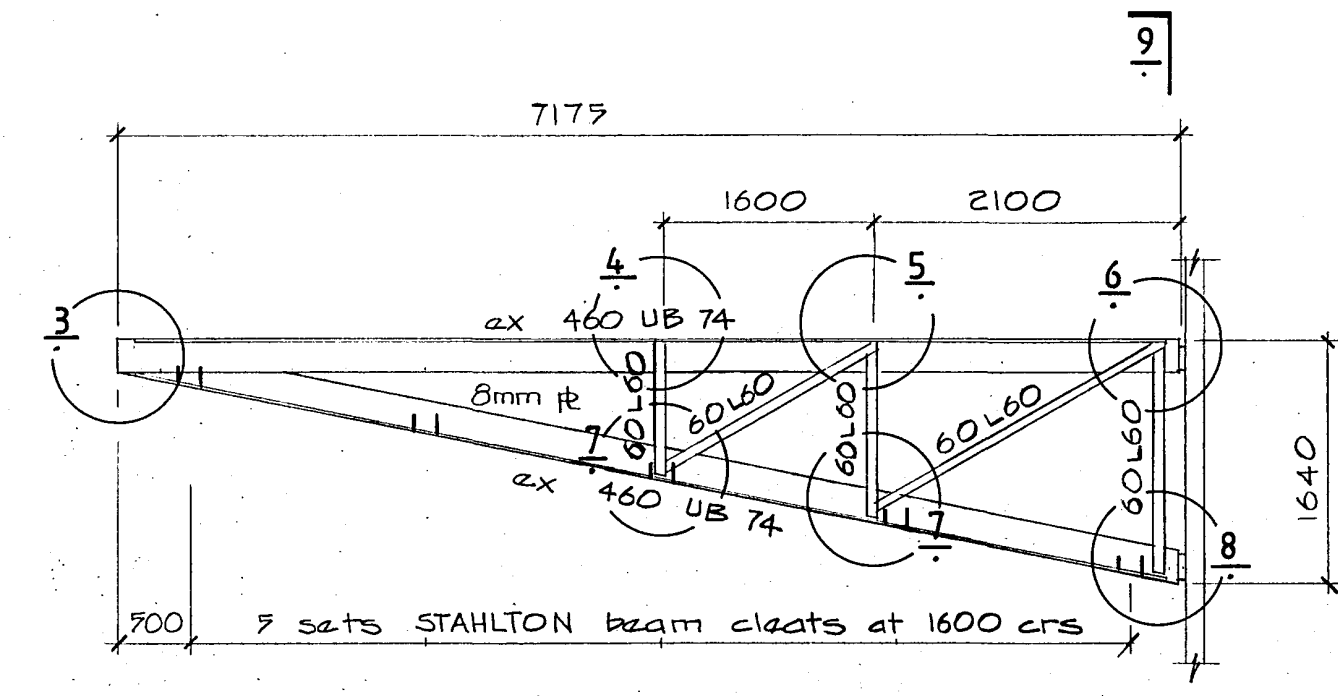
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(level 2-3)



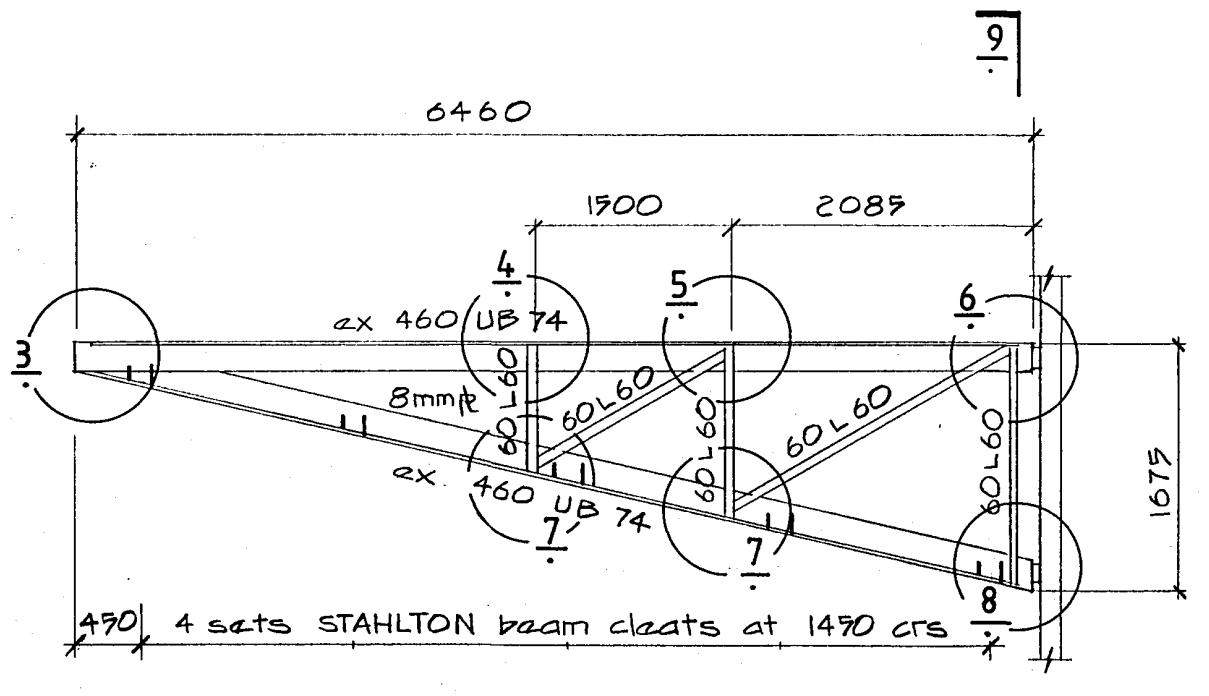
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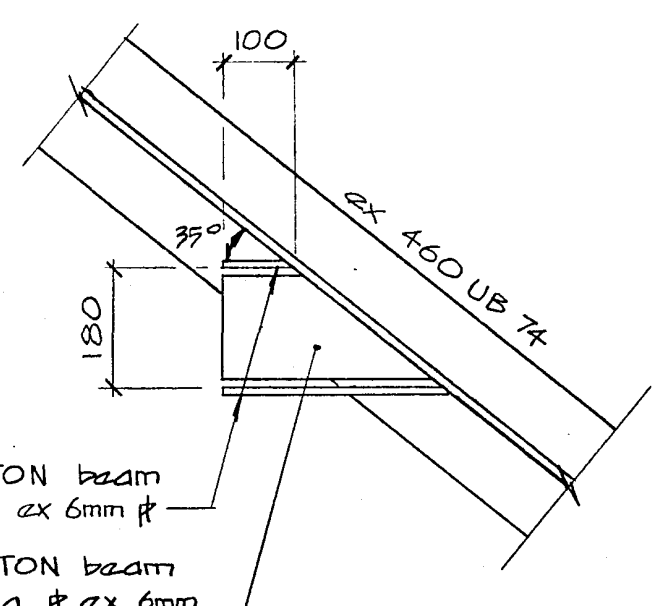
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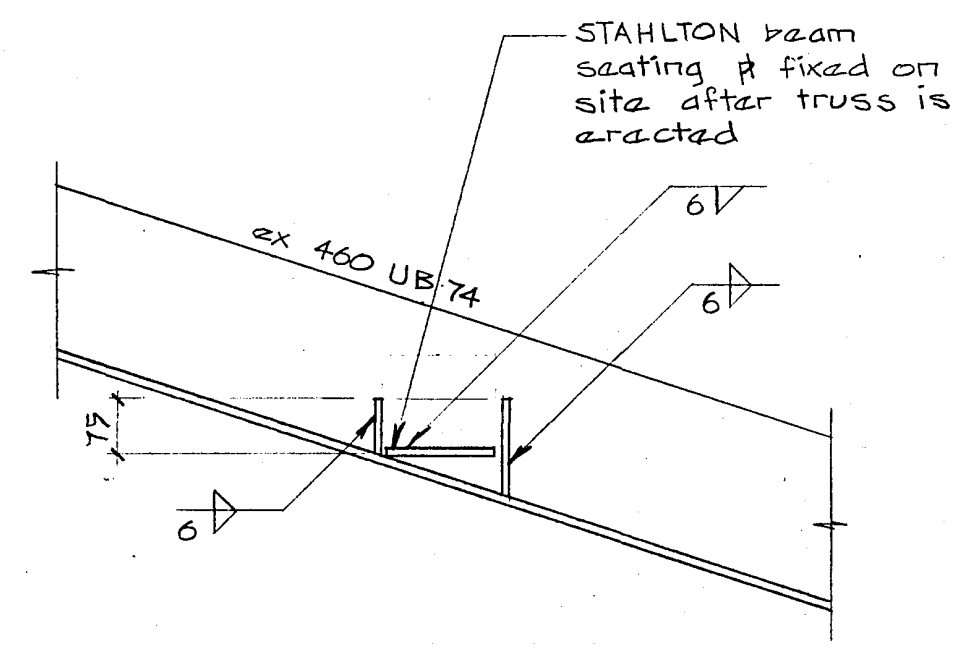
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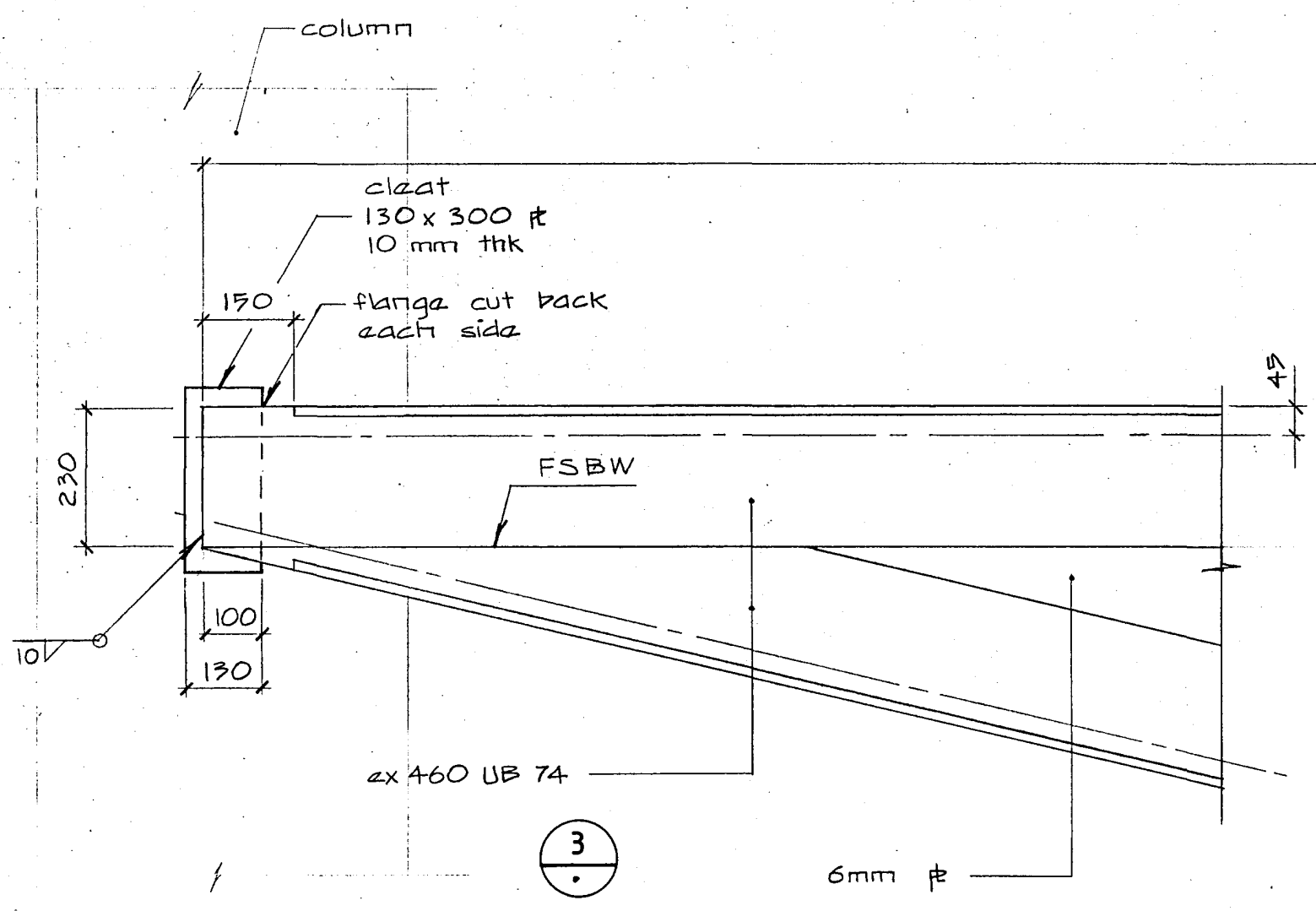
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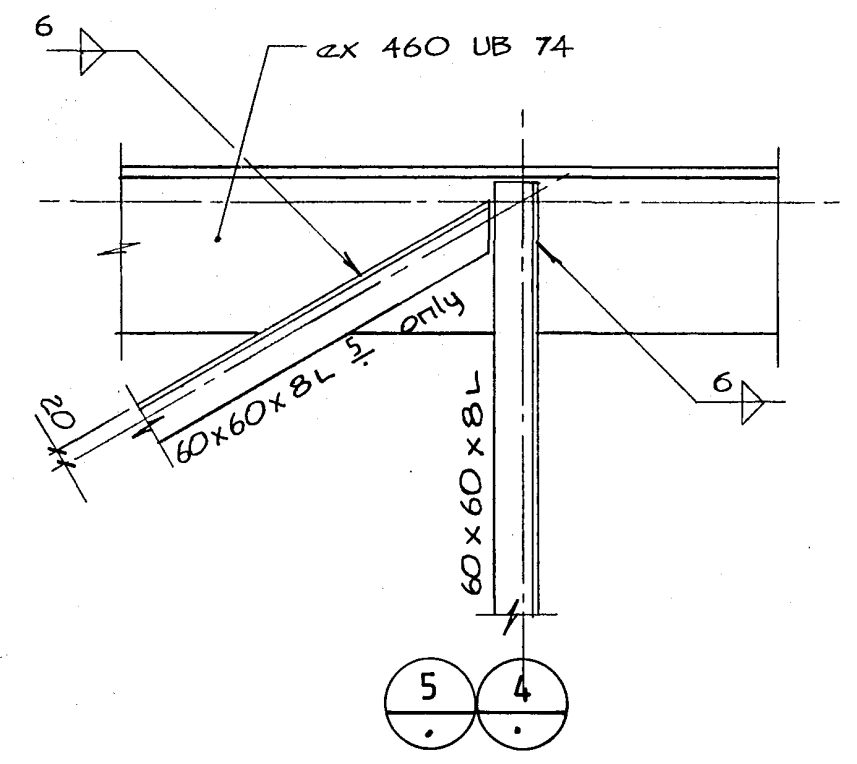


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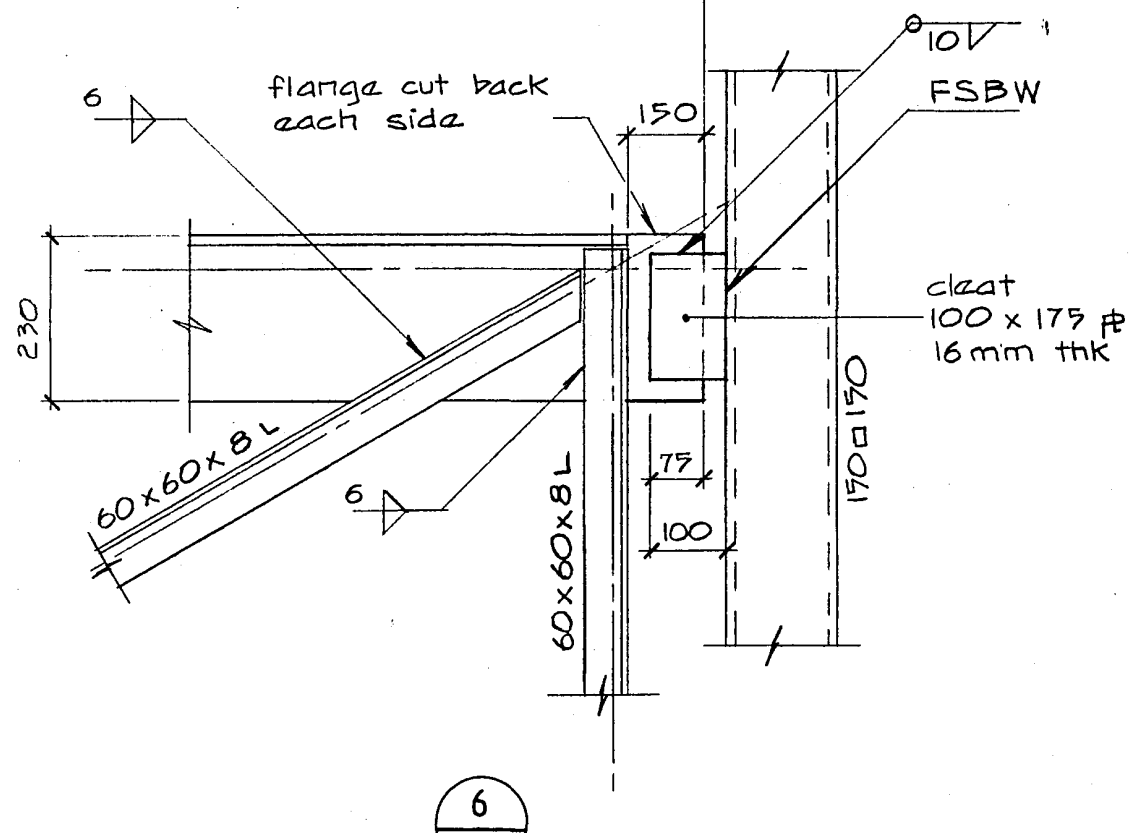


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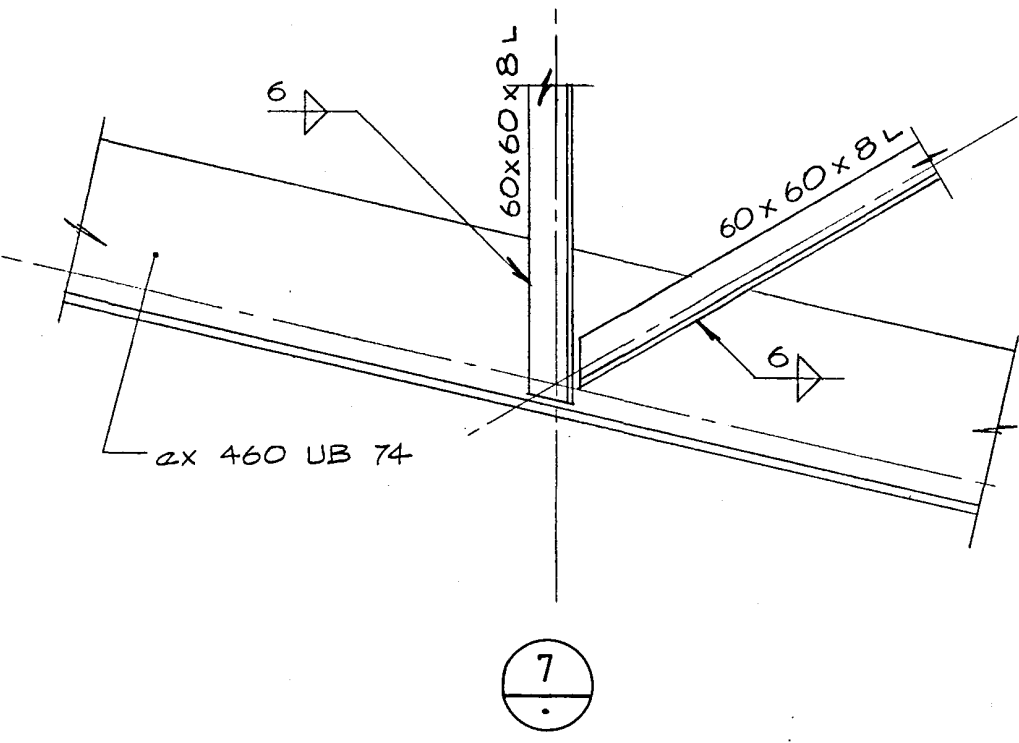
truss length (see elevations above)



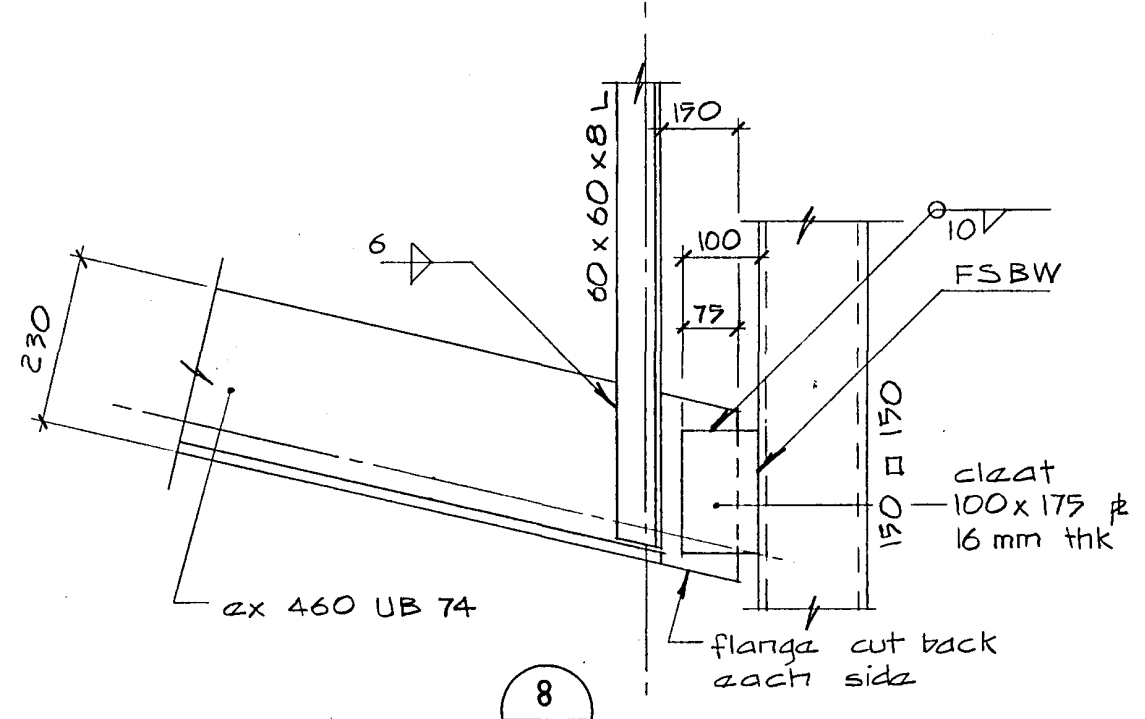
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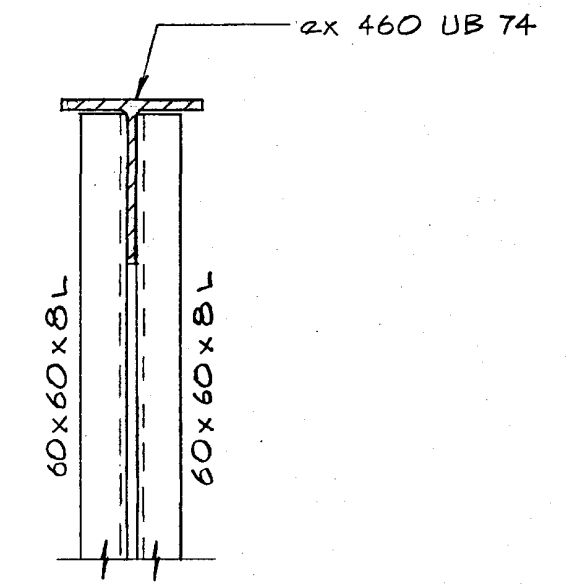
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7



8



9

Warren & Mahoney Architects Ltd  
Christchurch, Wellington & Auckland

HOLMES CONSULTING GROUP  
STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
Eng. Engineer

LANDMARK TOWER  
CHRISTCHURCH

DRAWN: J.W. SCALE: 1:50, 1:10  
APPROVED: R.A.P.

SHEET TITLE:  
RAMP TRUSS  
DETAILS

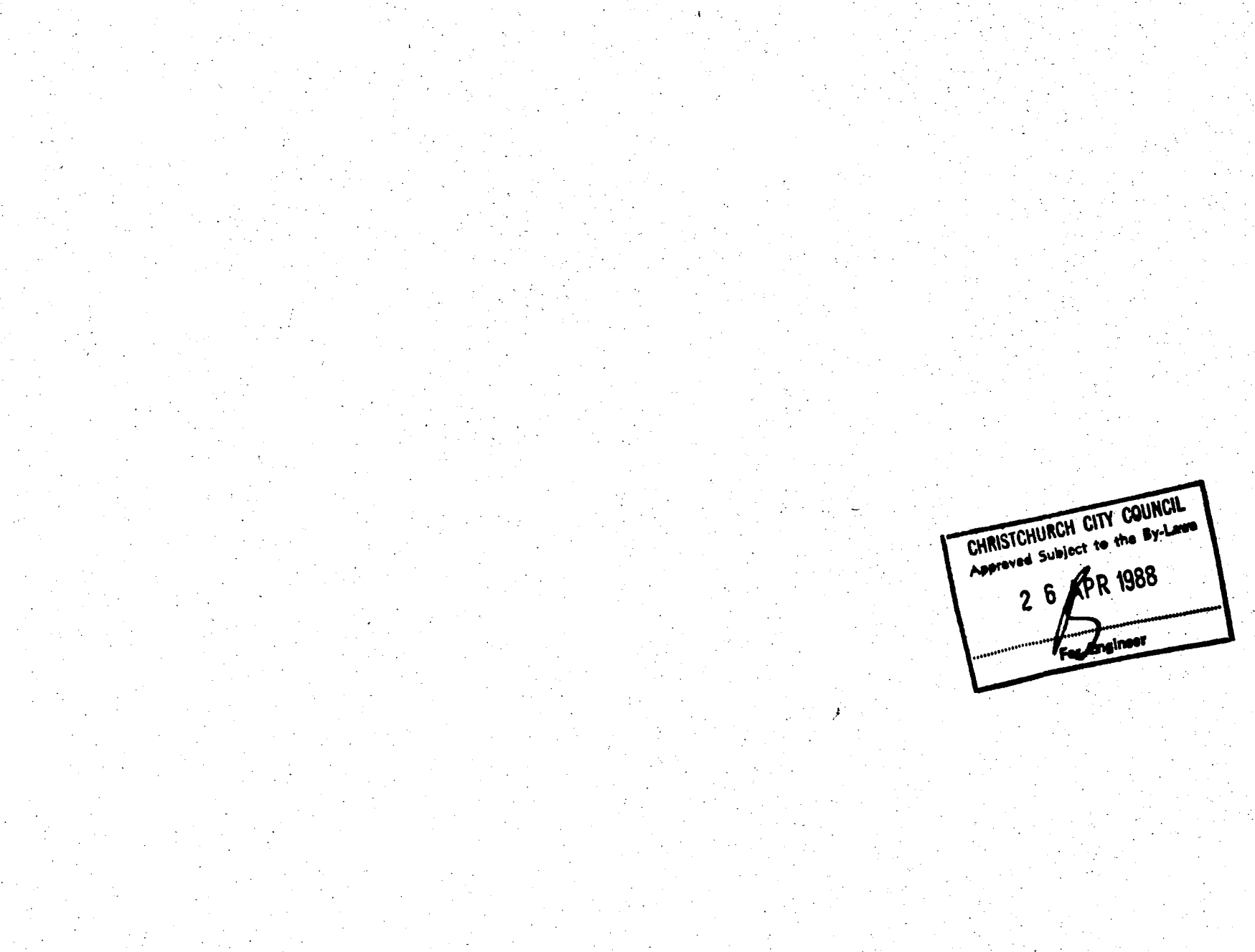
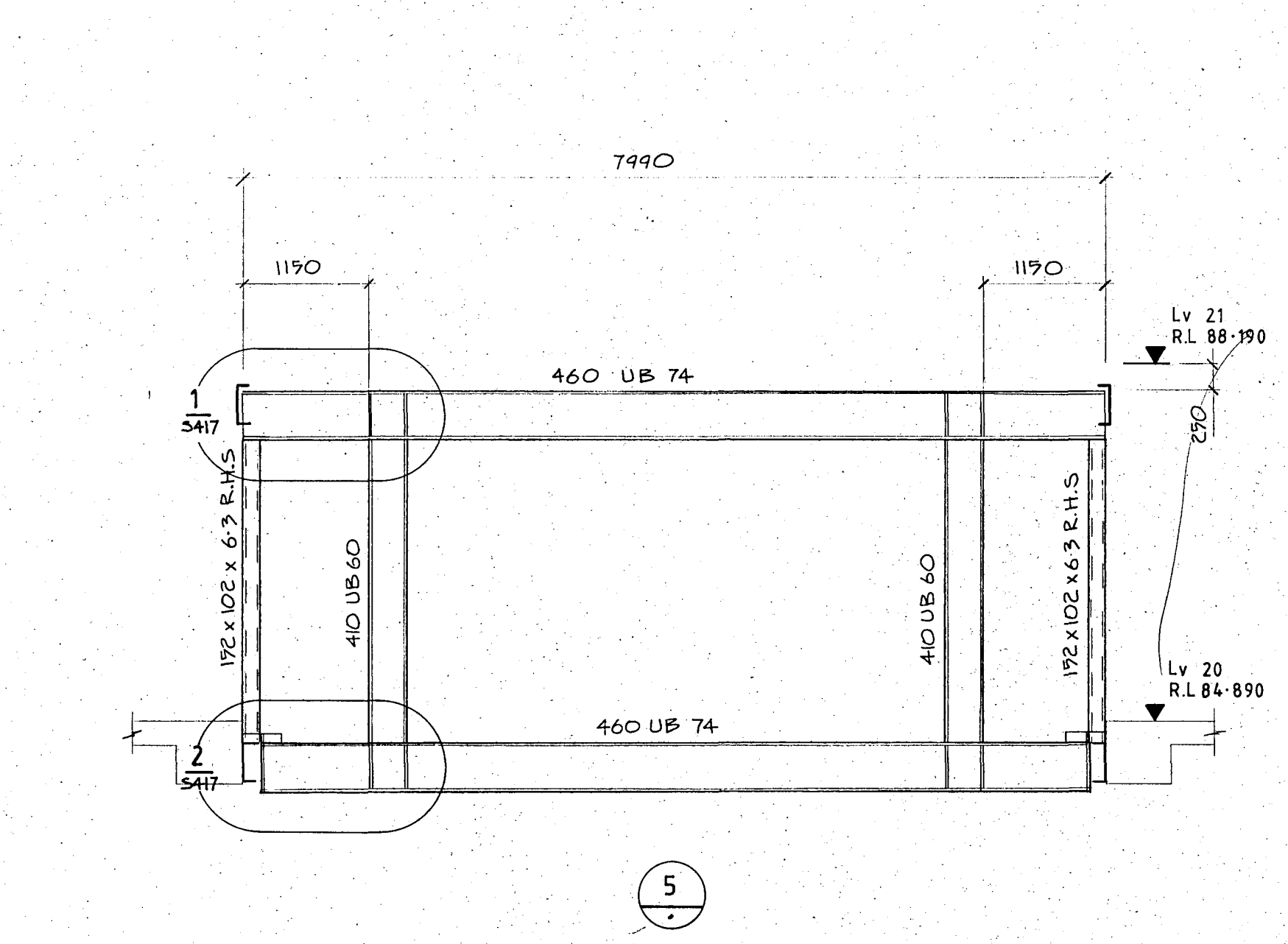
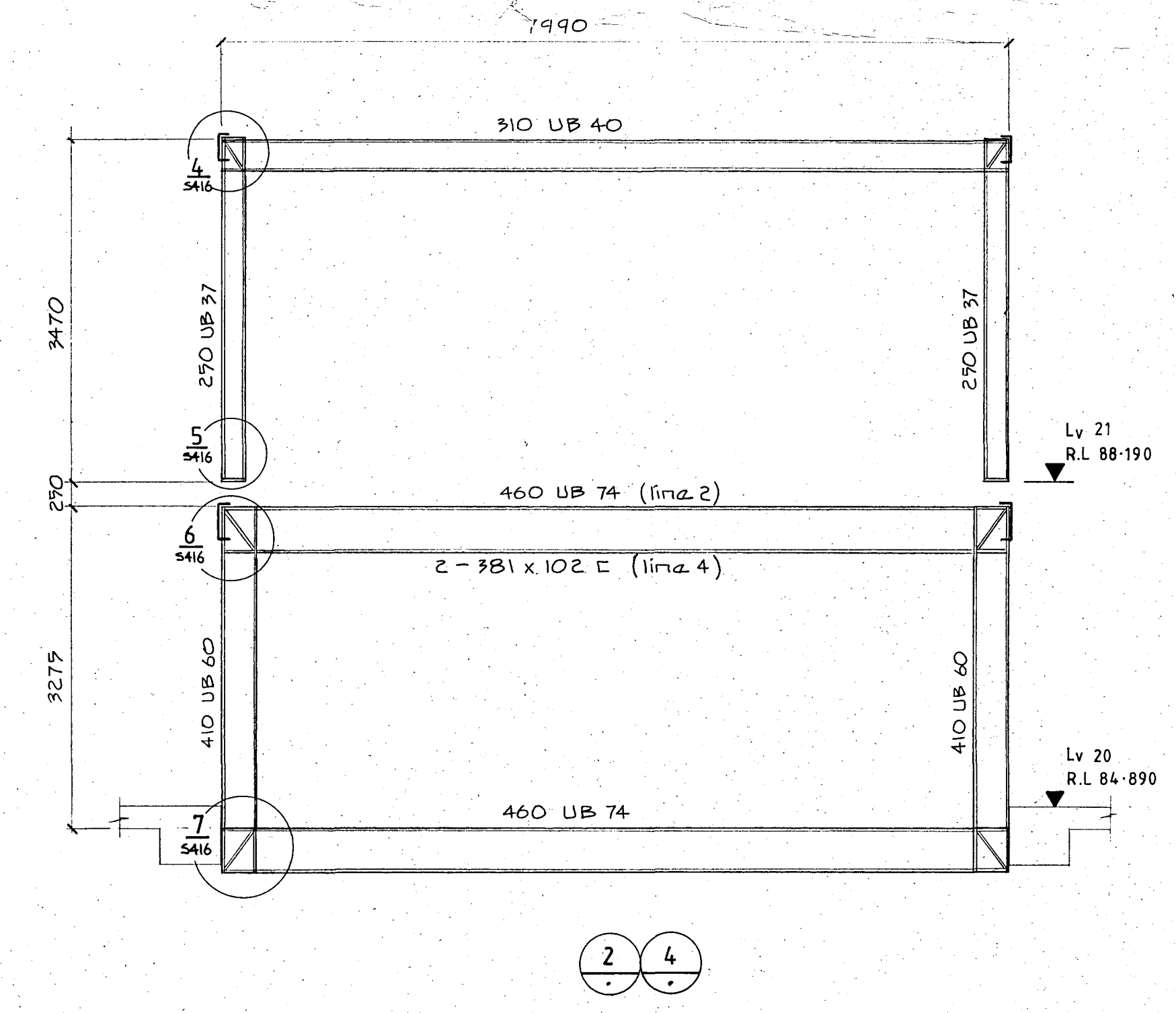
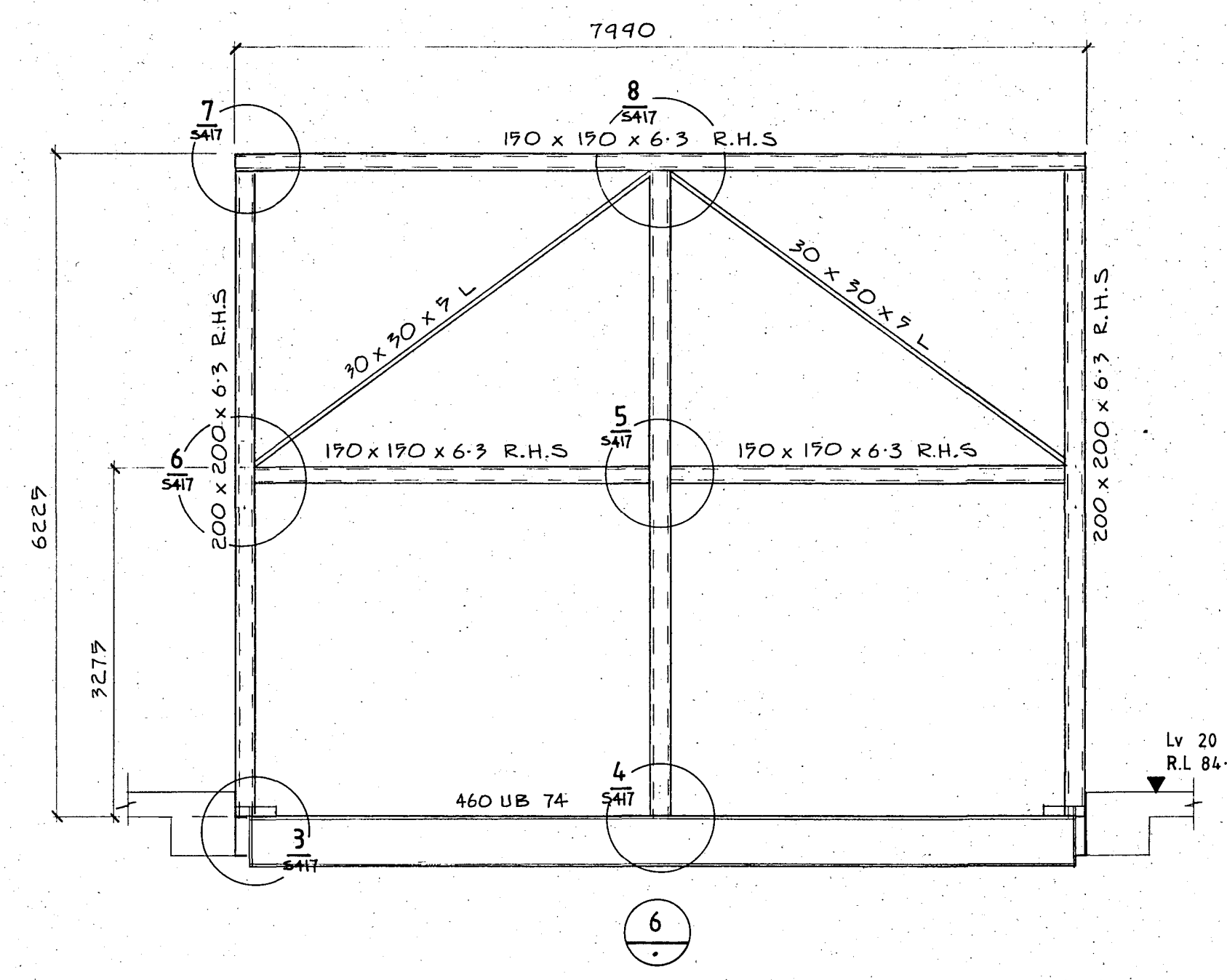
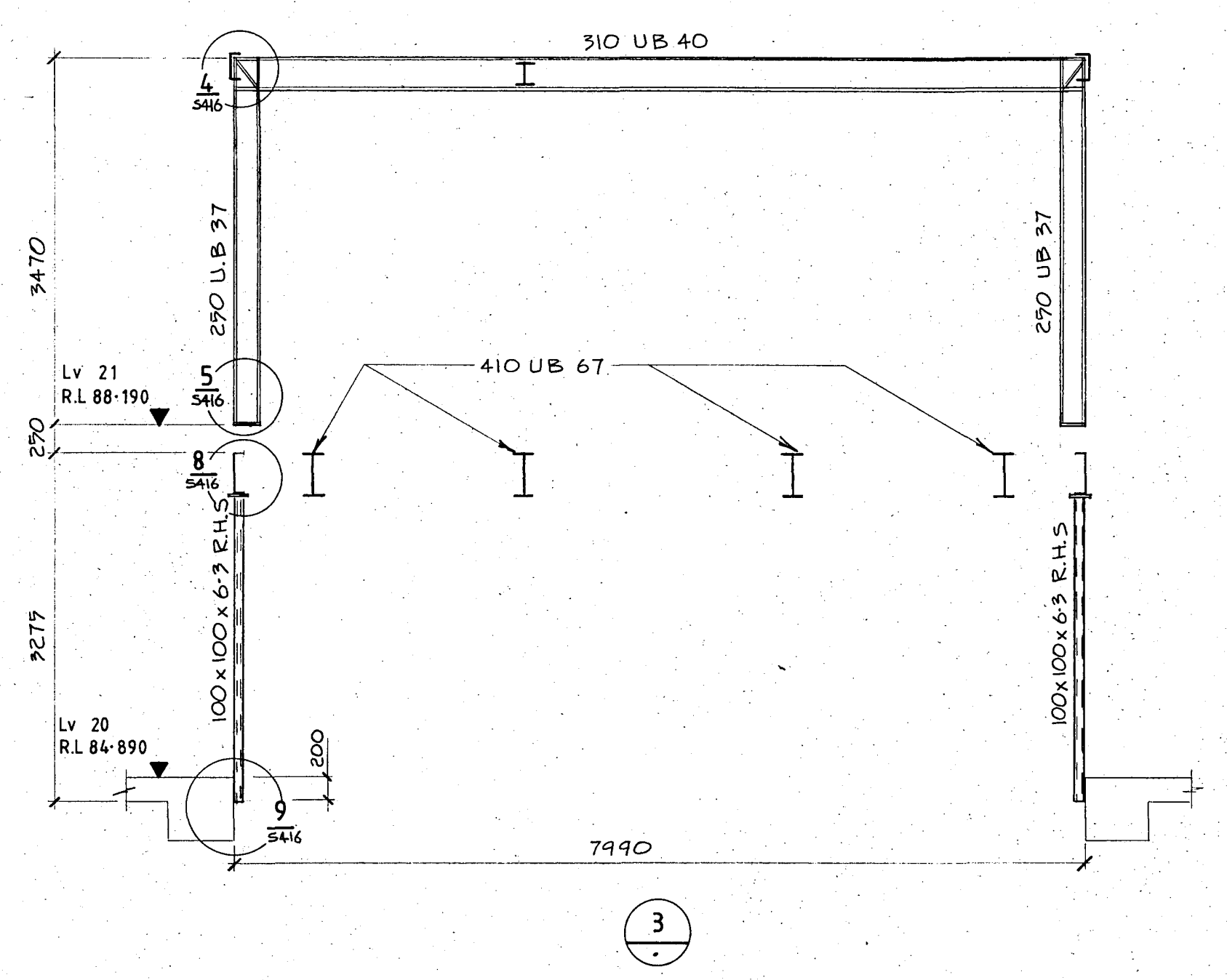
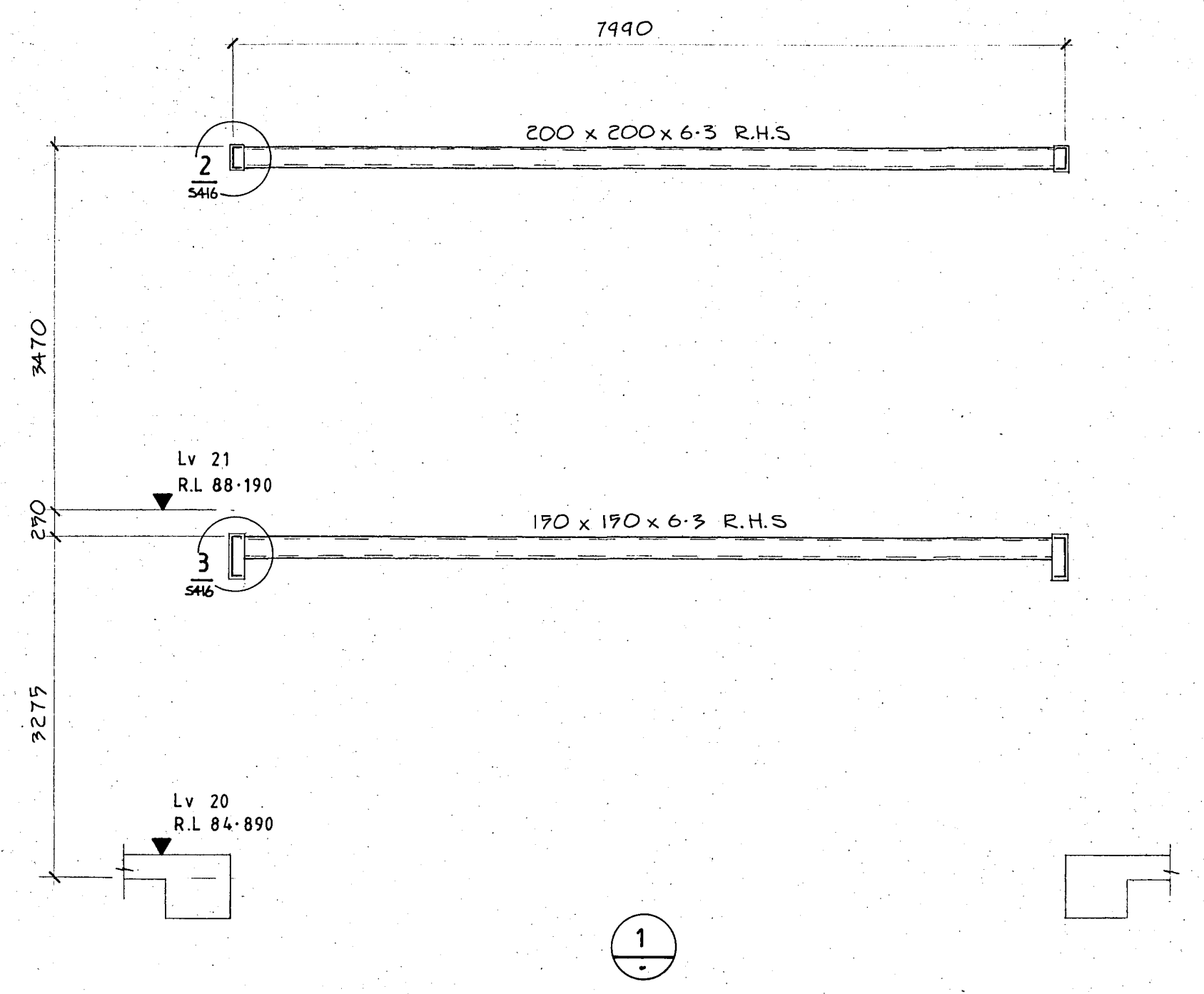
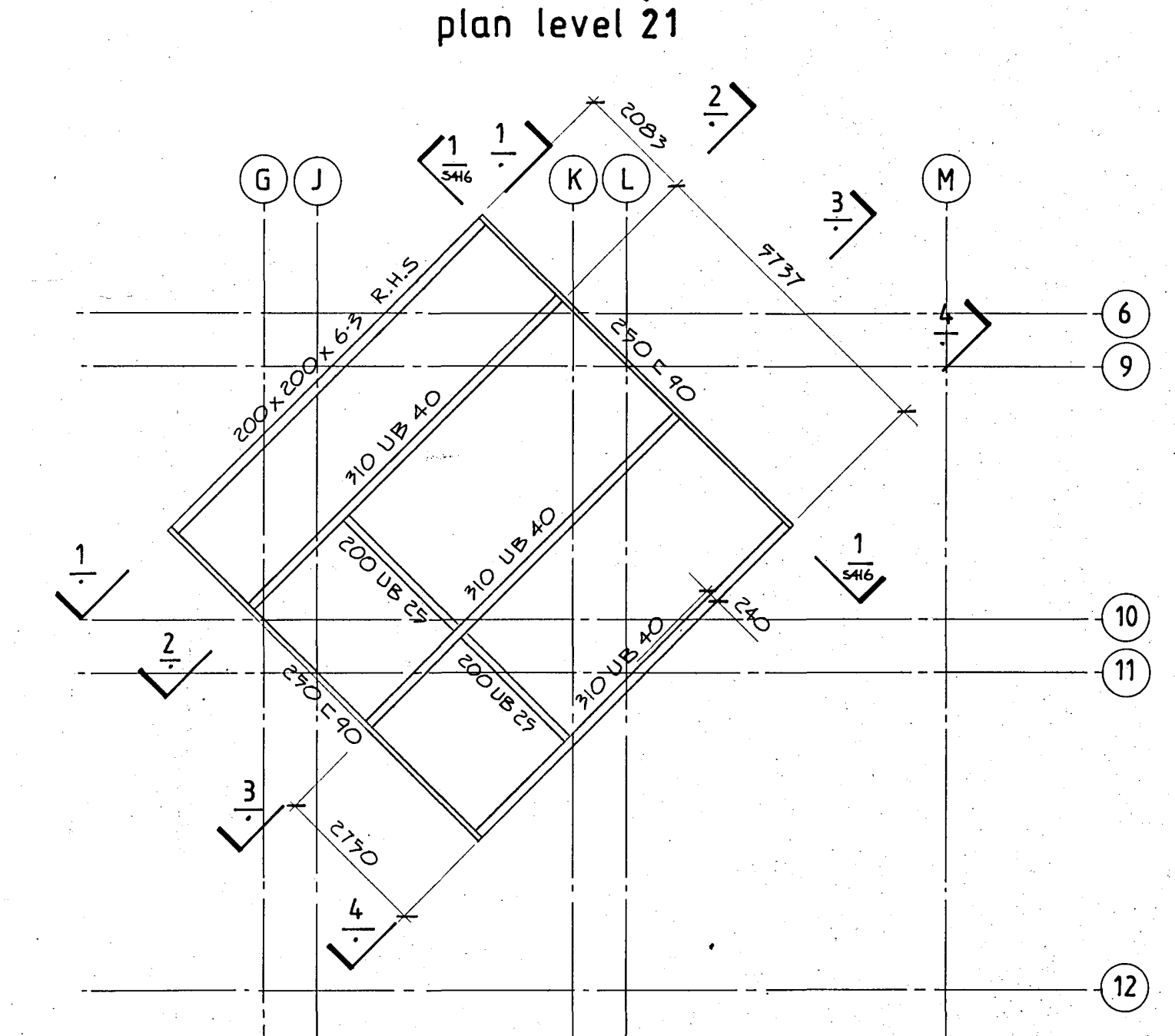
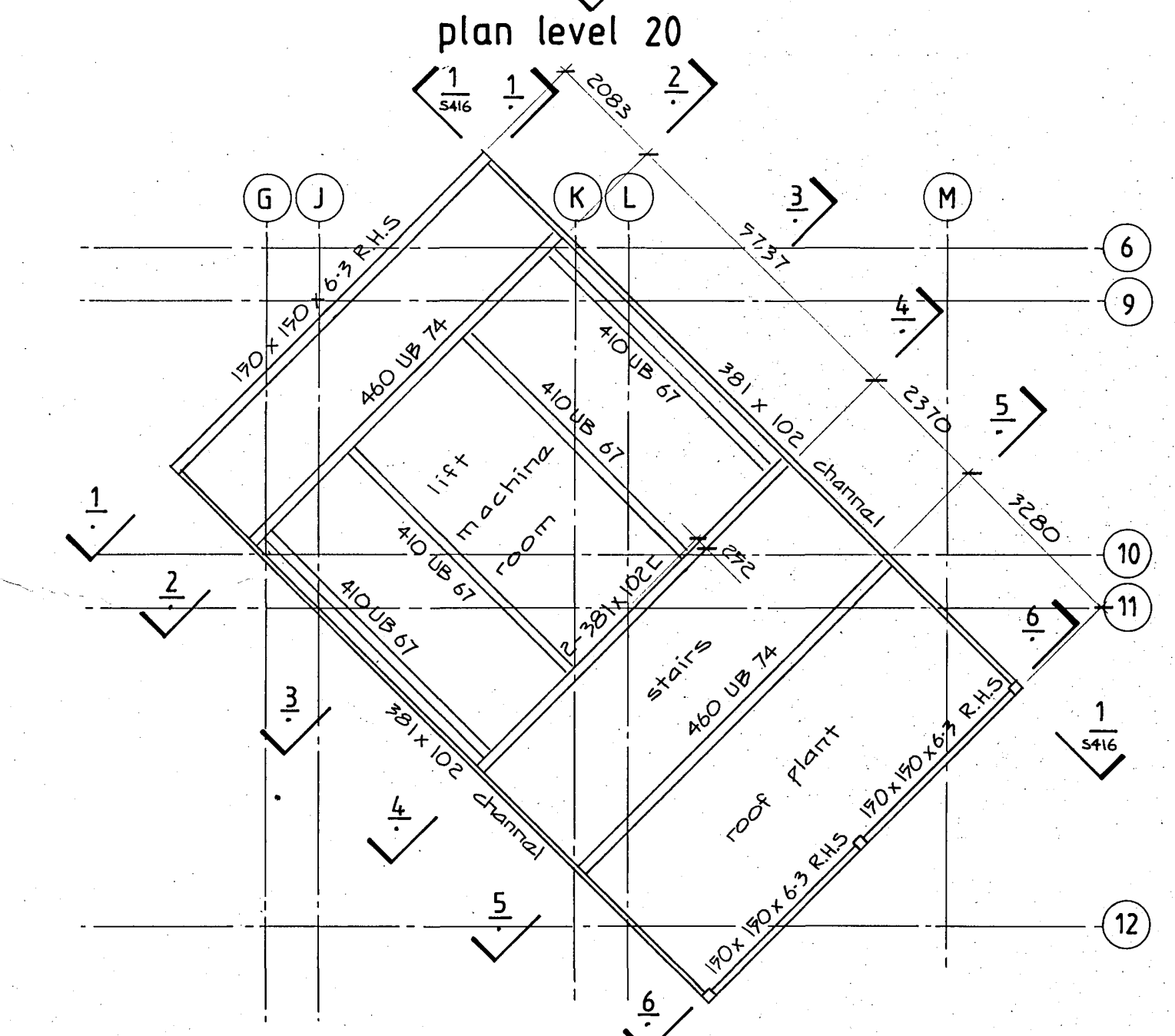
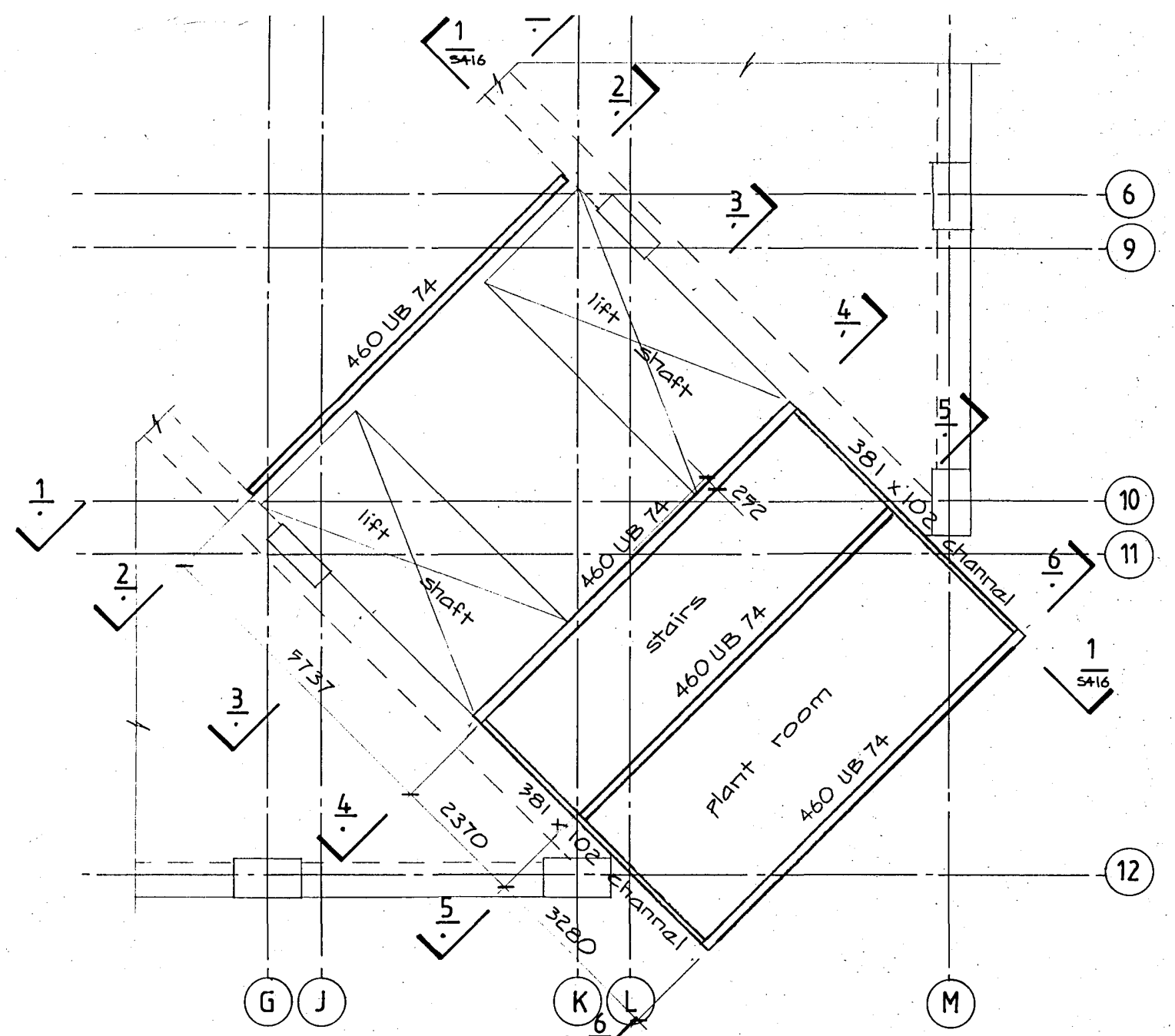
JOB NO: 2281 SHEET NO: S 409 REV: 1

ALL DIMENSIONS TO BE VERIFIED  
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COMMENCING ANY WORK

For package number

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Rev	Date	Amendments



Warren & Mahoney Architects Ltd  
Christchurch Wellington & Auckland

HOLMES CONSULTING GROUP  
STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

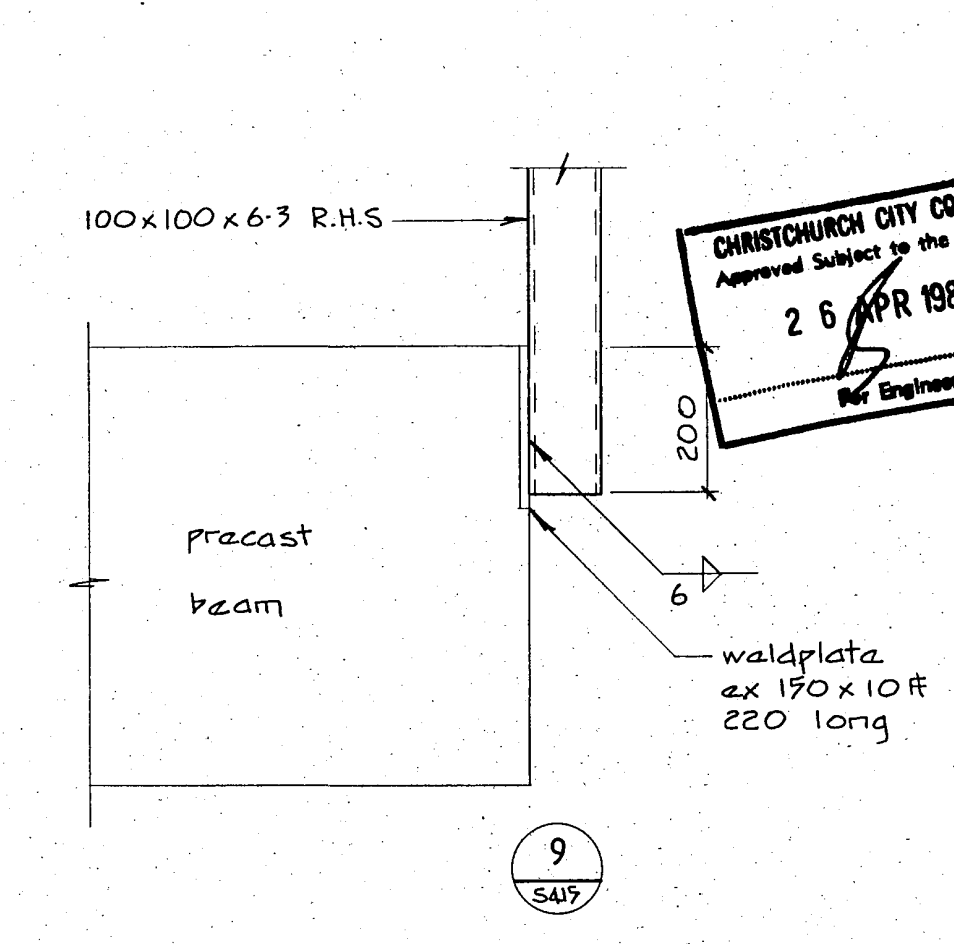
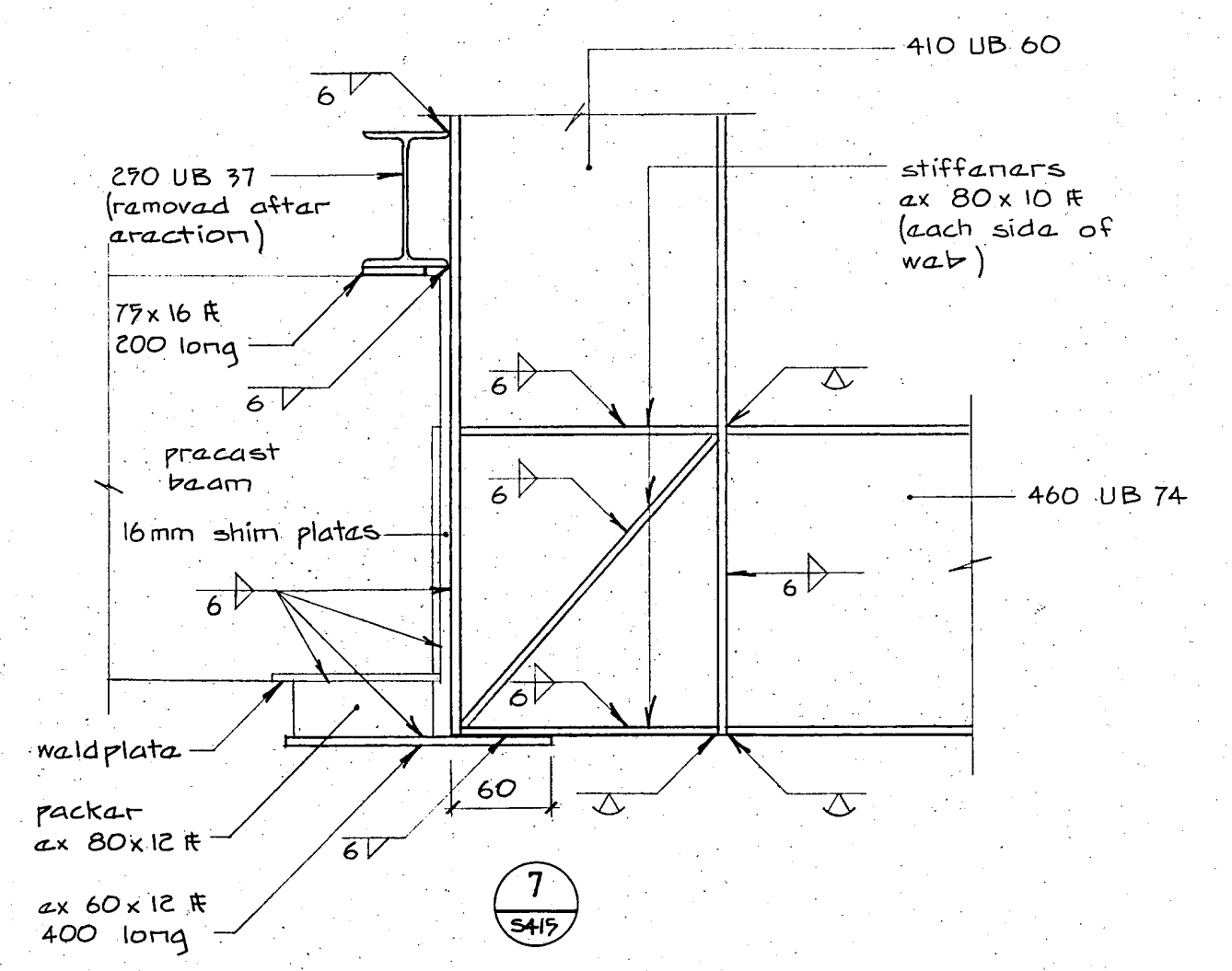
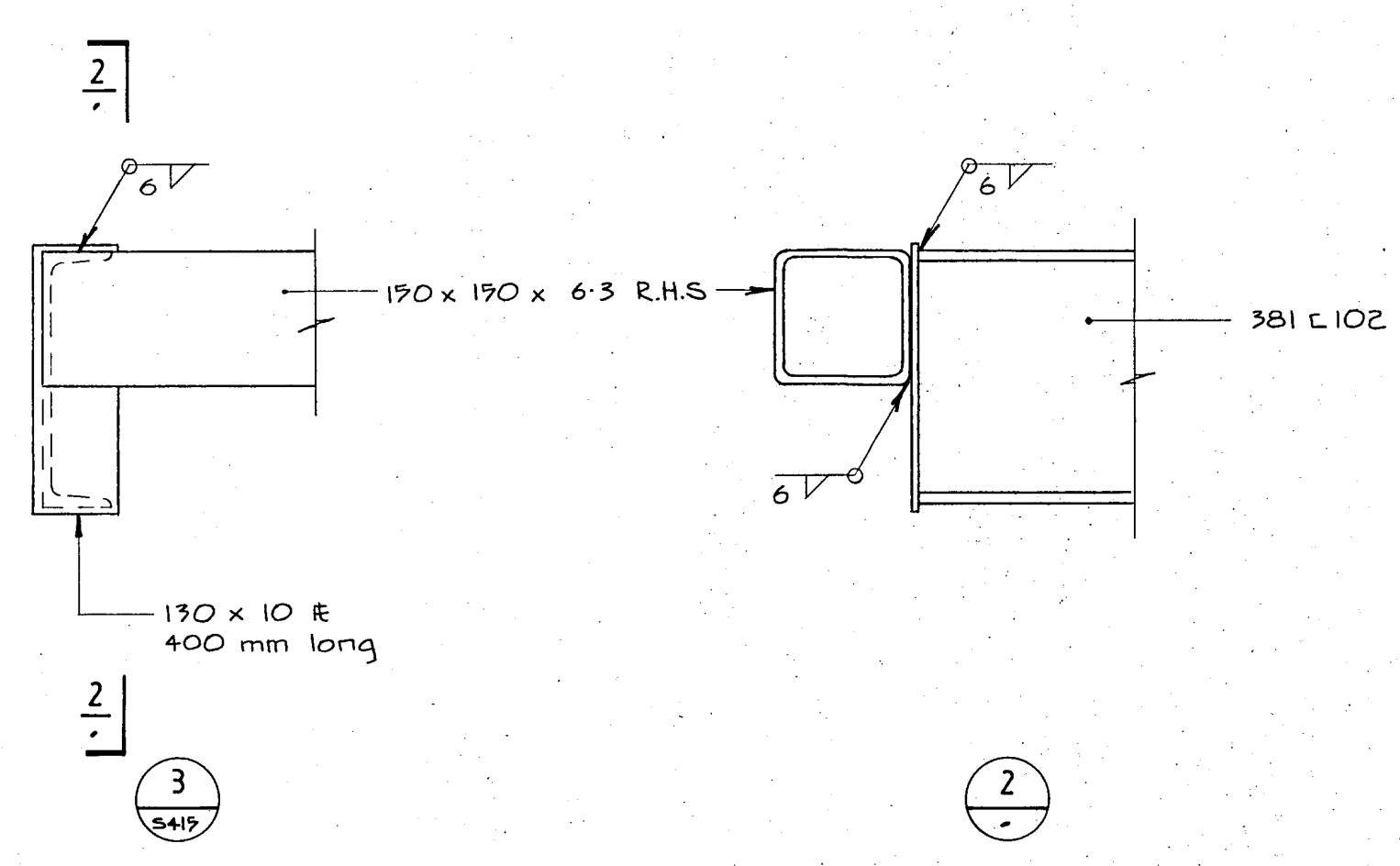
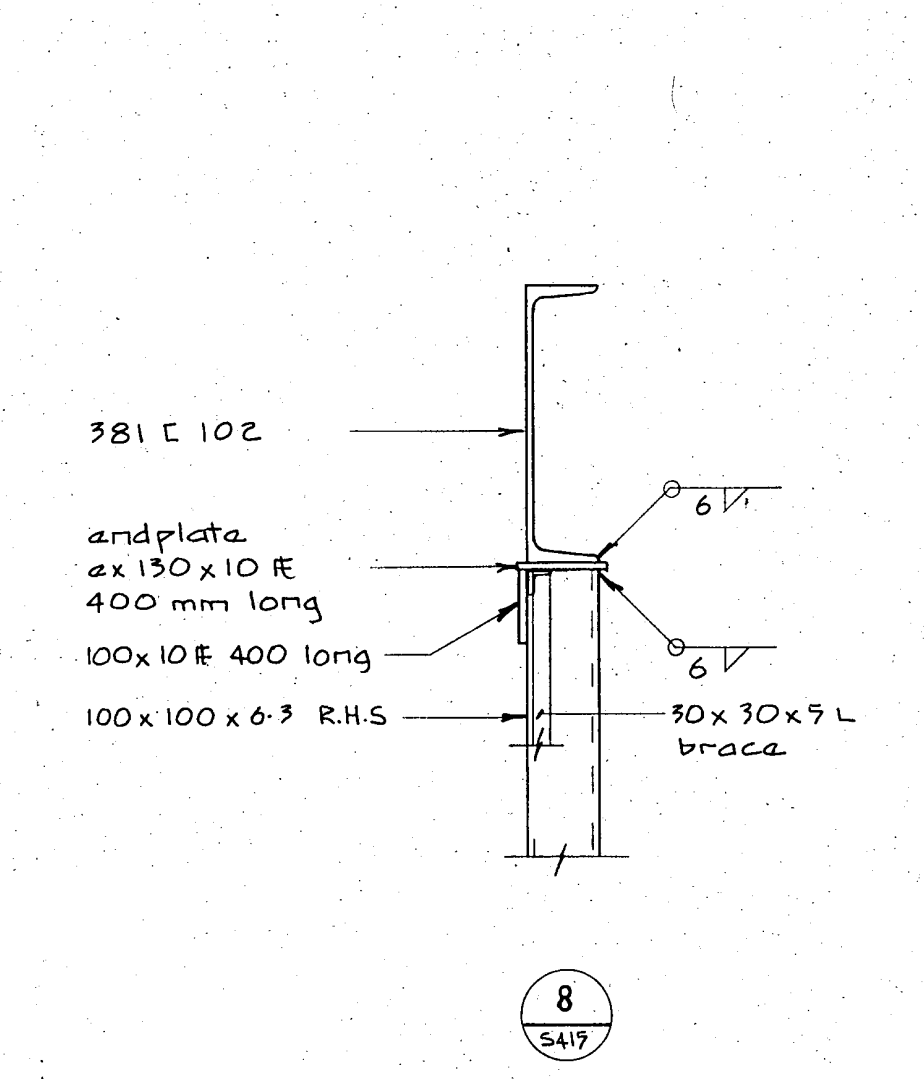
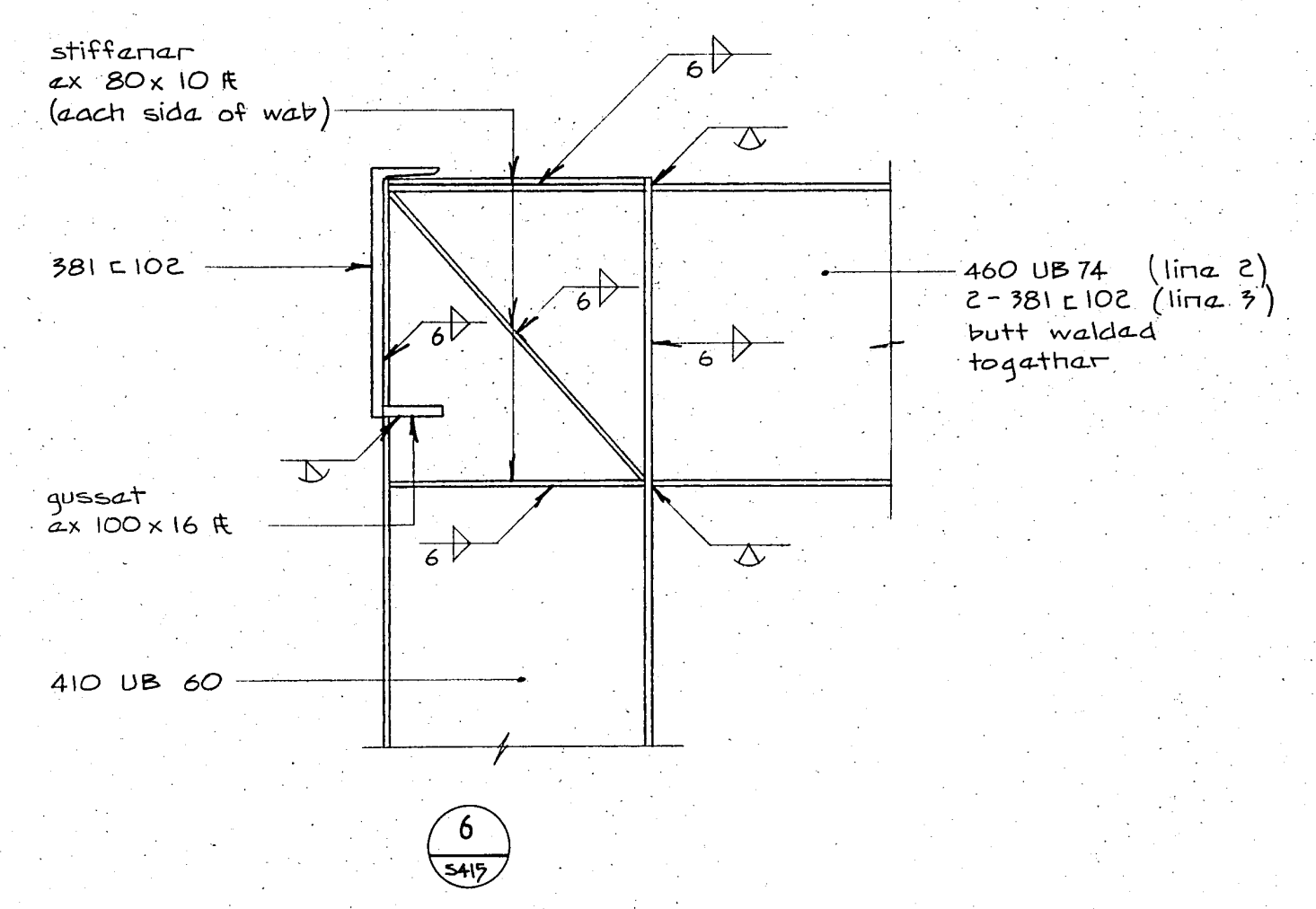
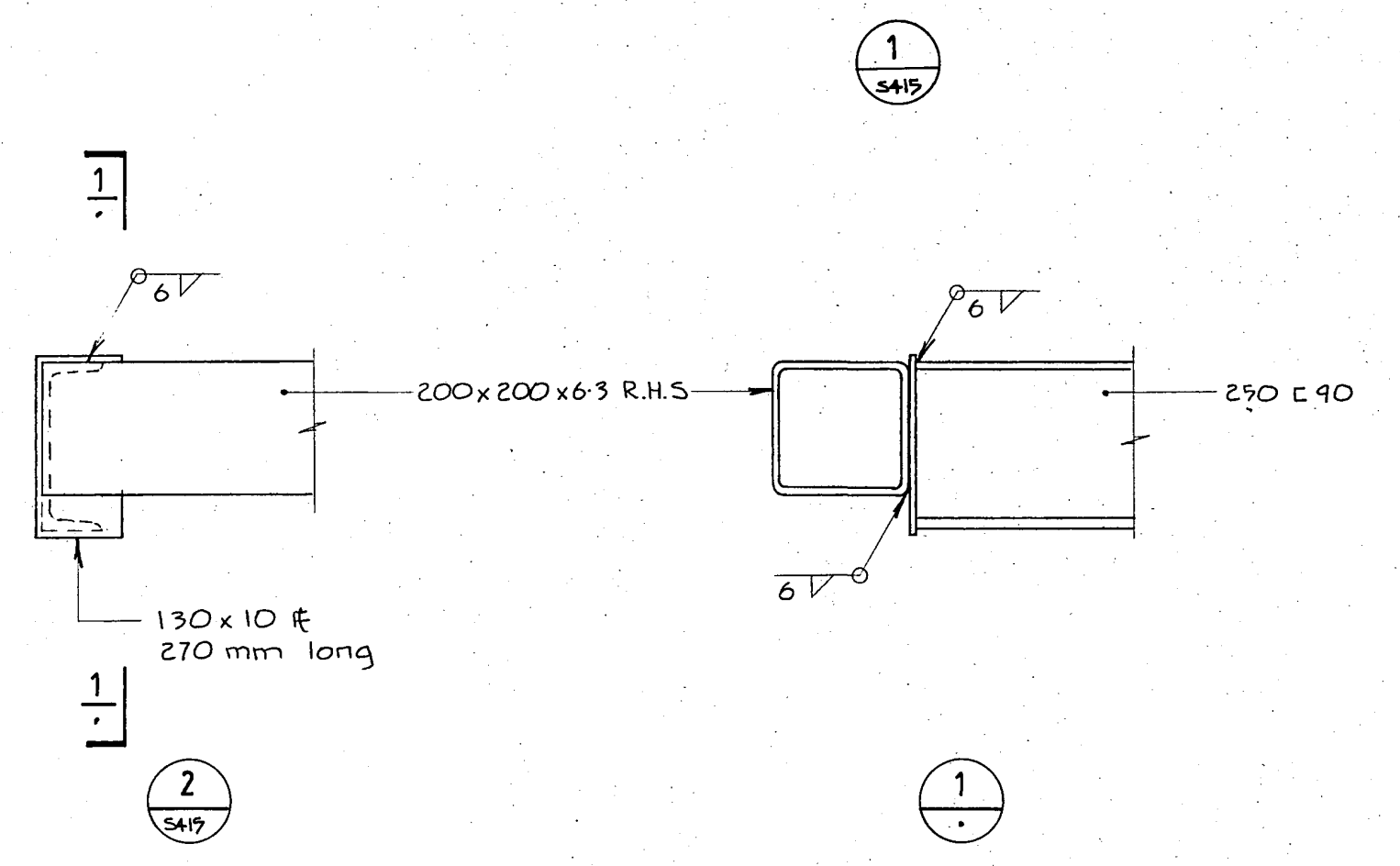
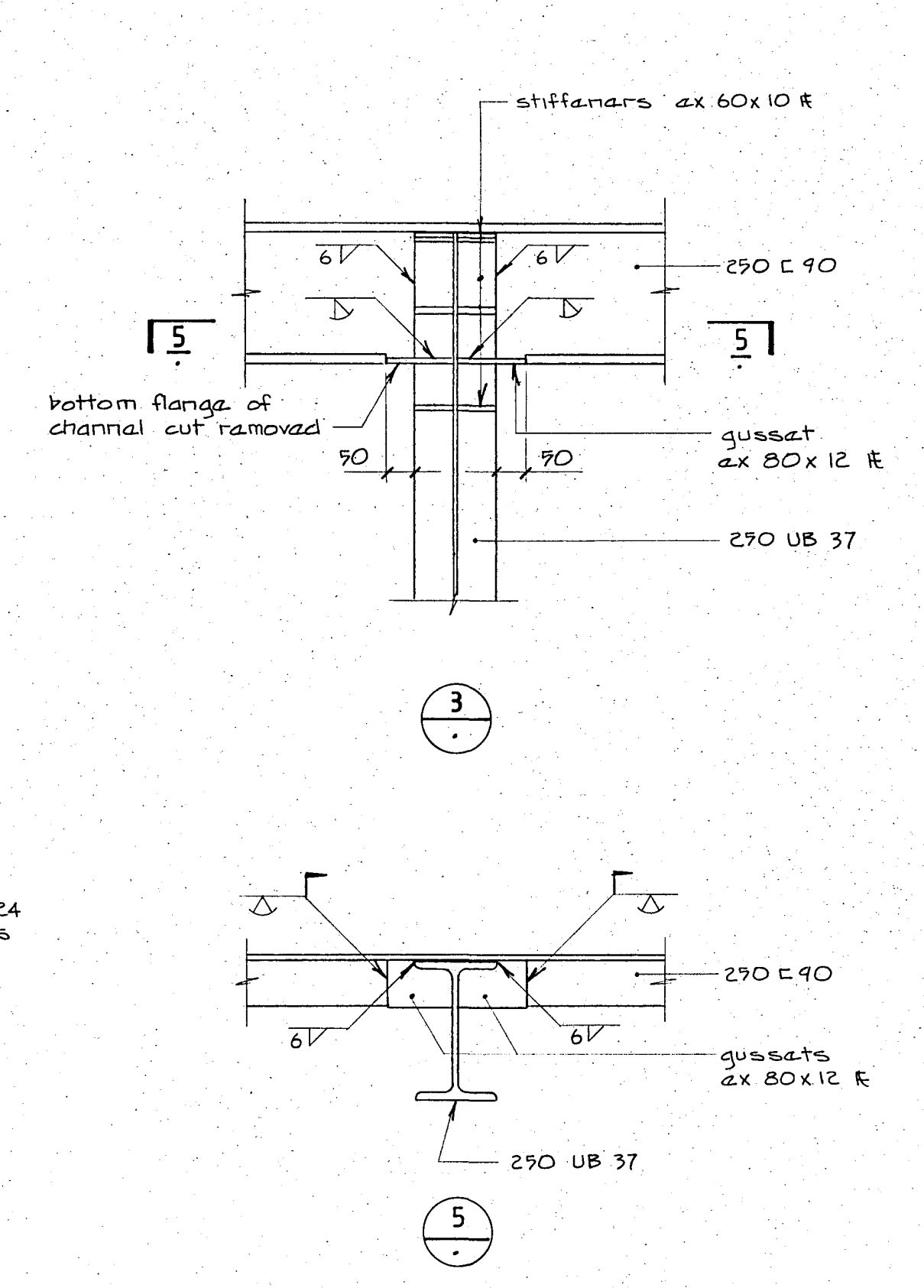
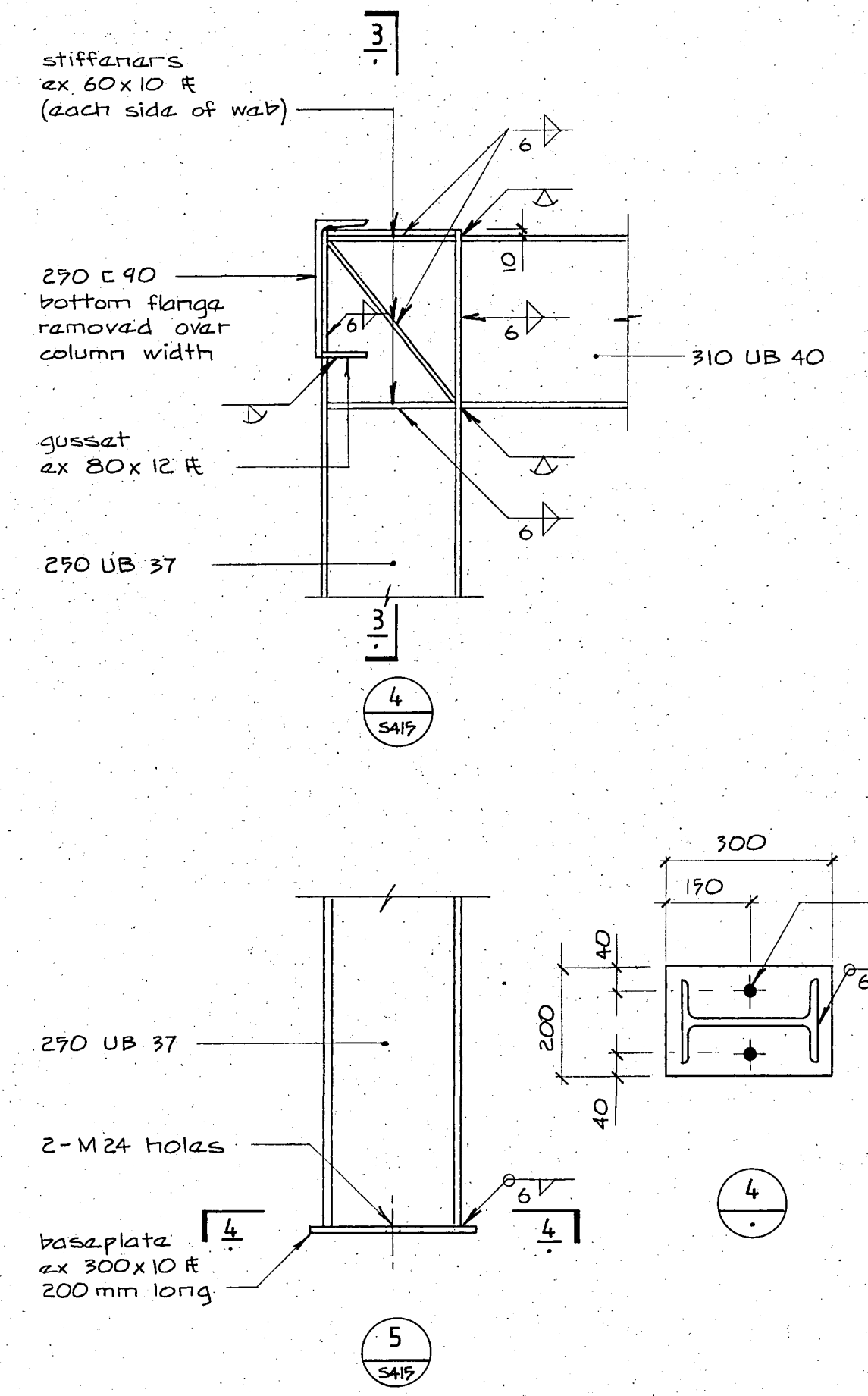
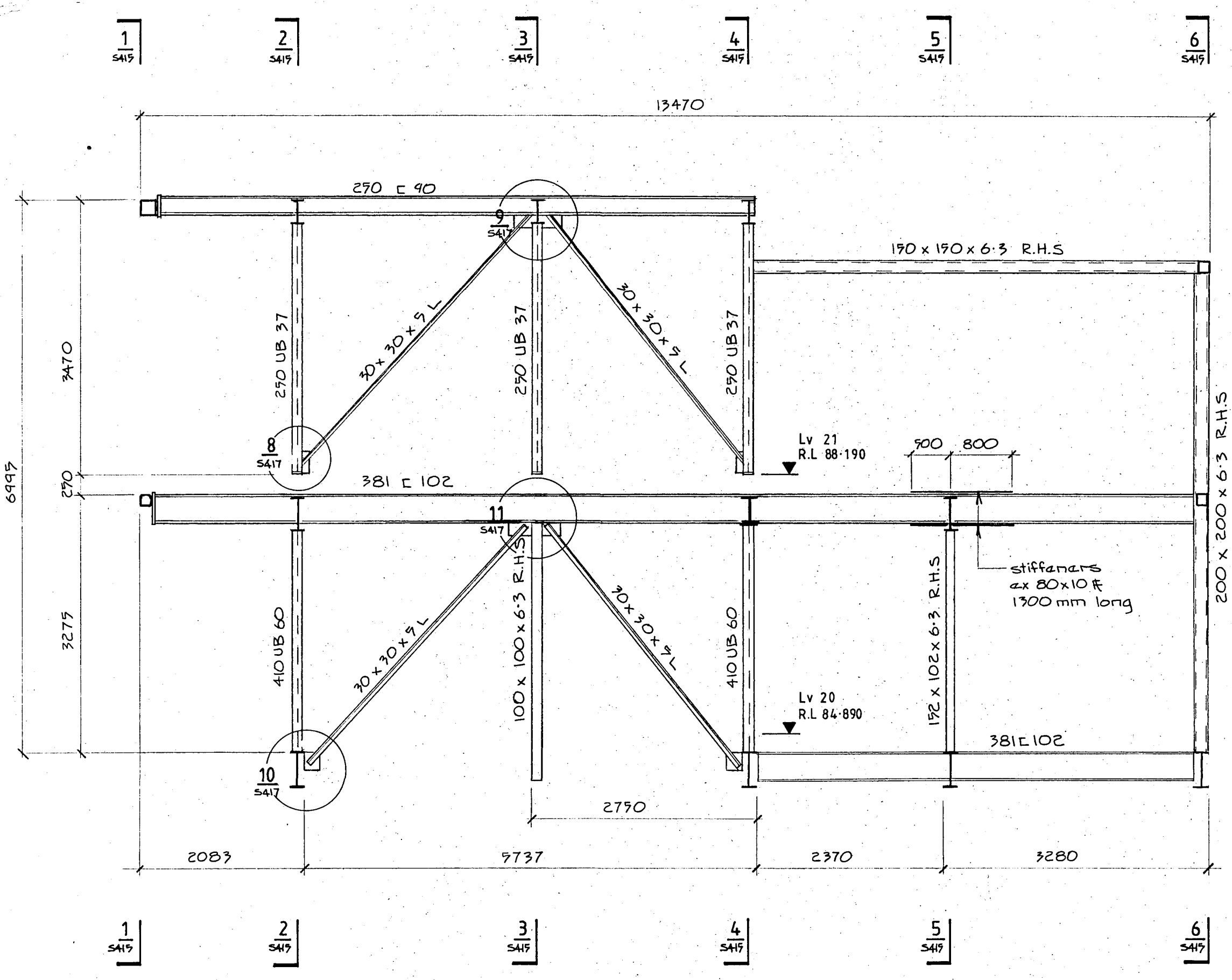
# ROBERT JONES HOUSE CHRISTCHURCH

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
P. Jones  
Engineer

DRAWN: J.W. SCALE: 1:100, 1:50  
APPROVED:

SHEET TITLE:  
PLANT ROOM AND LMR  
STEELWORK LAYOUT

JOB NO: 2281 SHEET NO: S 415 REV:



ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK

For package number

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Rev	Date	Amendments

Warren & Mahoney Architects Ltd  
Christchurch Wellington & Auckland

HOLMES CONSULTING GROUP  
STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

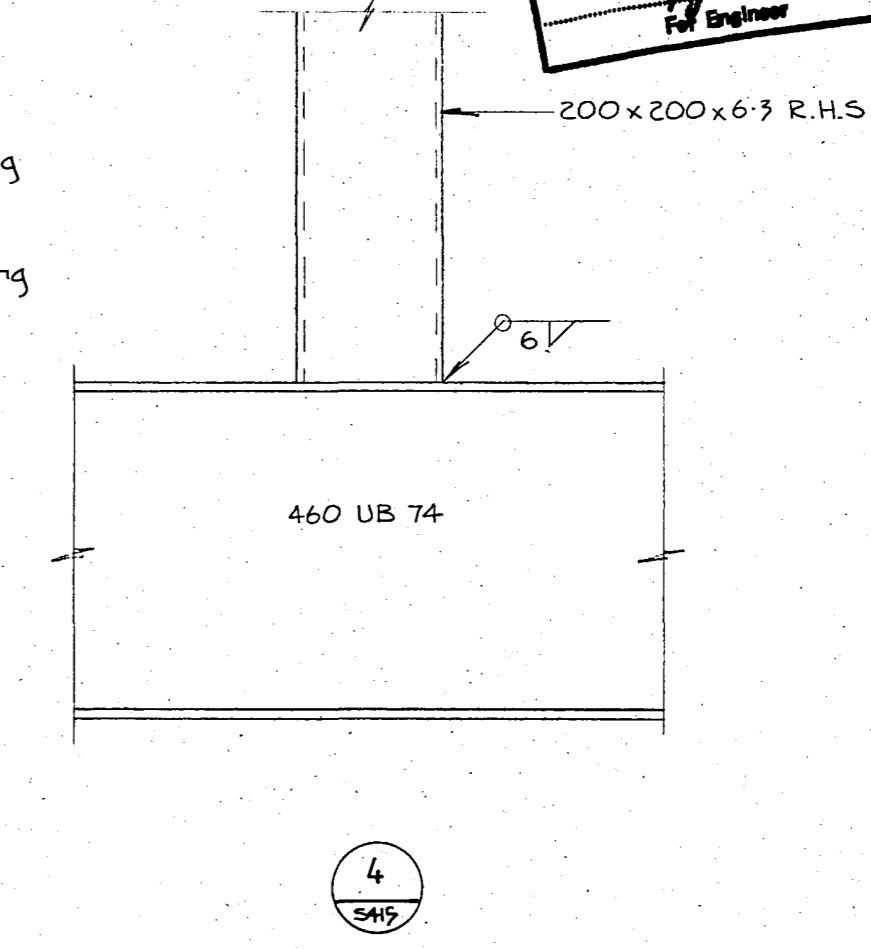
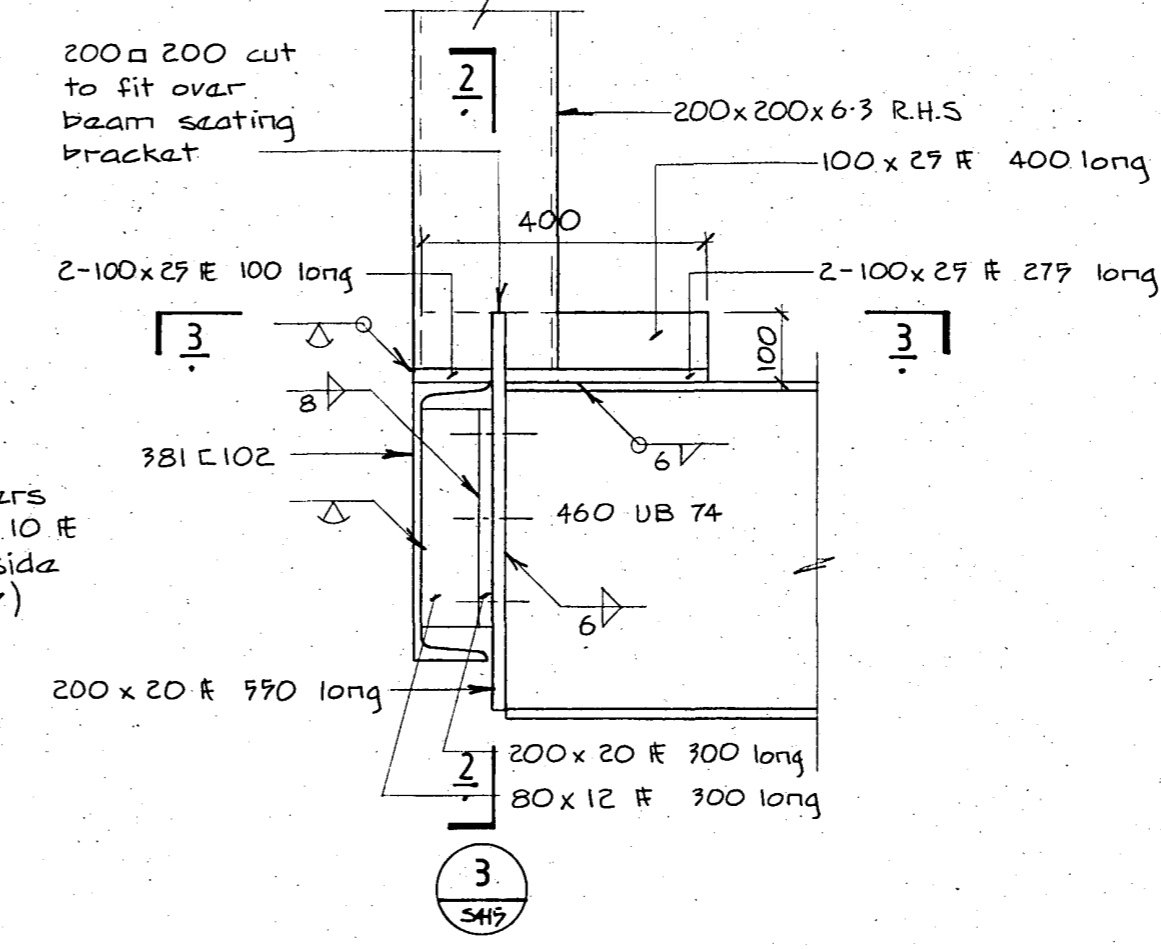
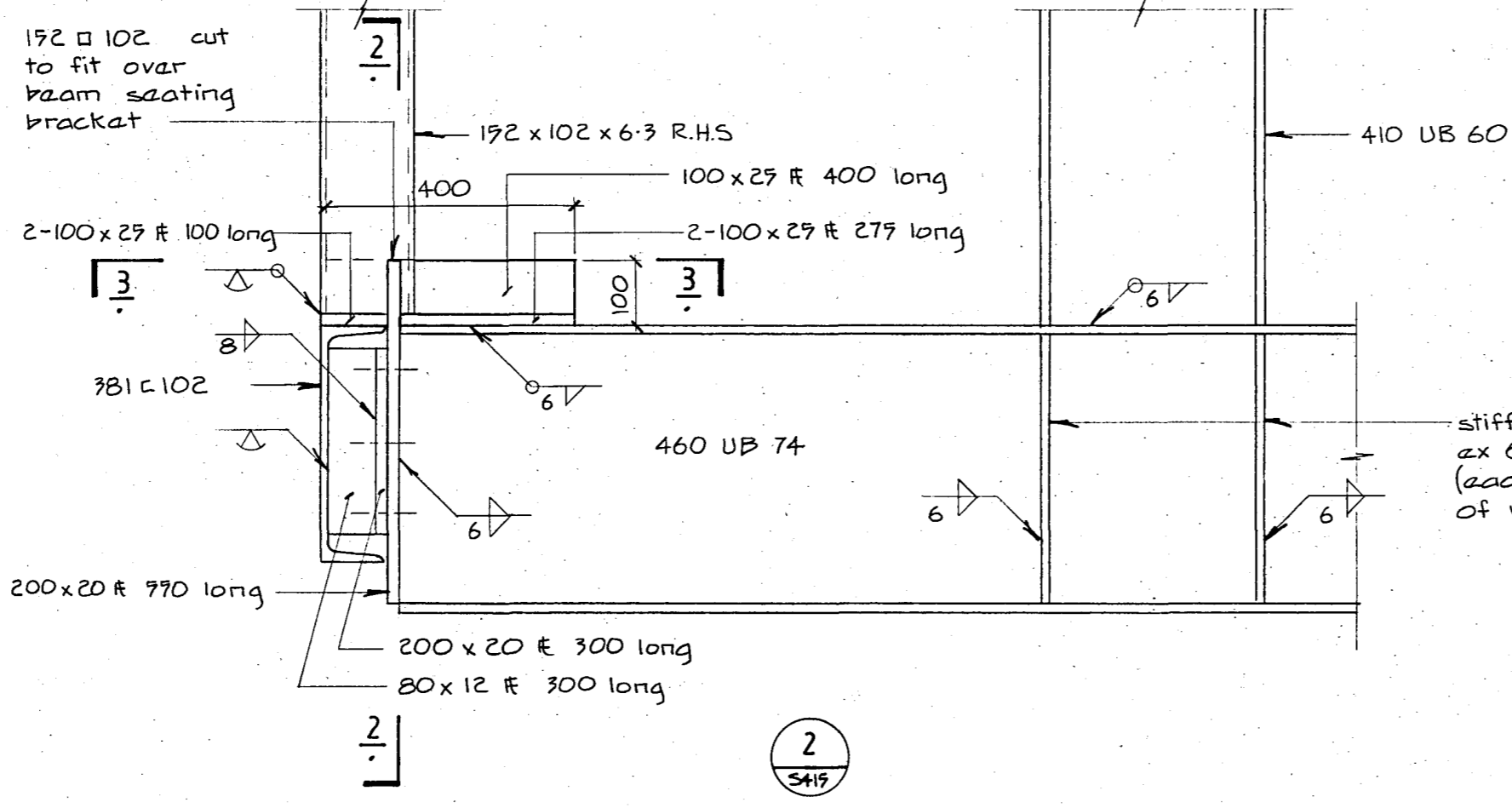
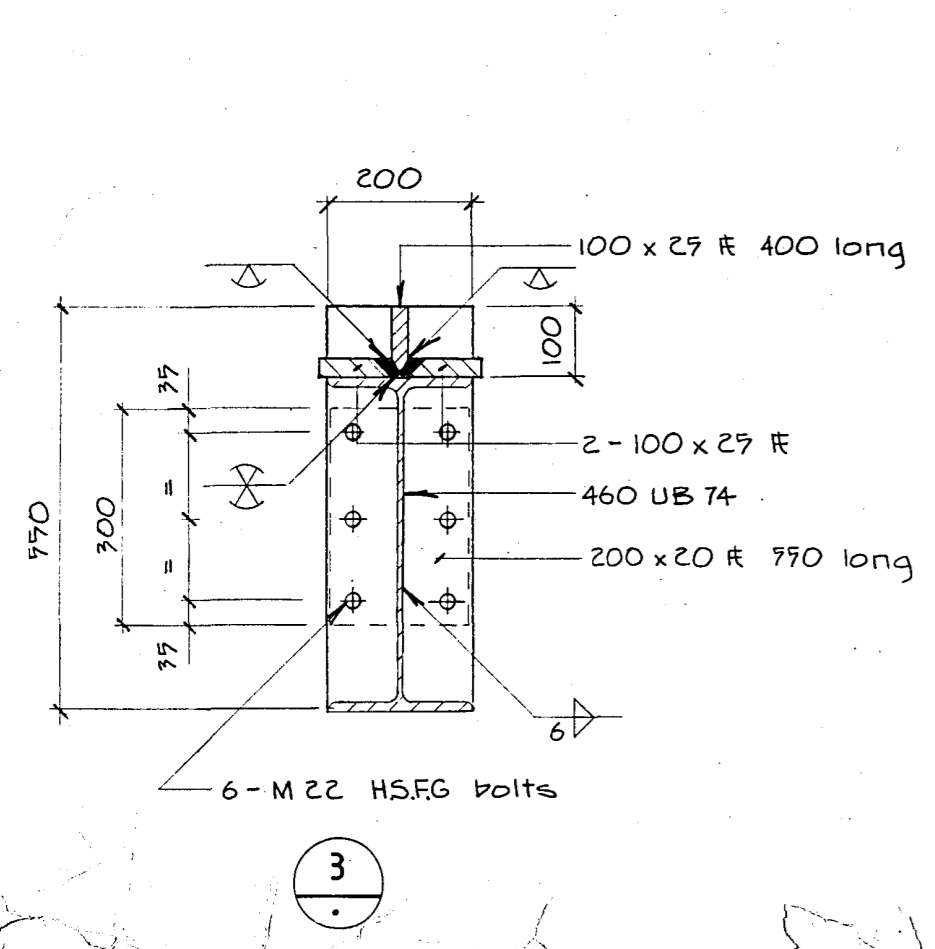
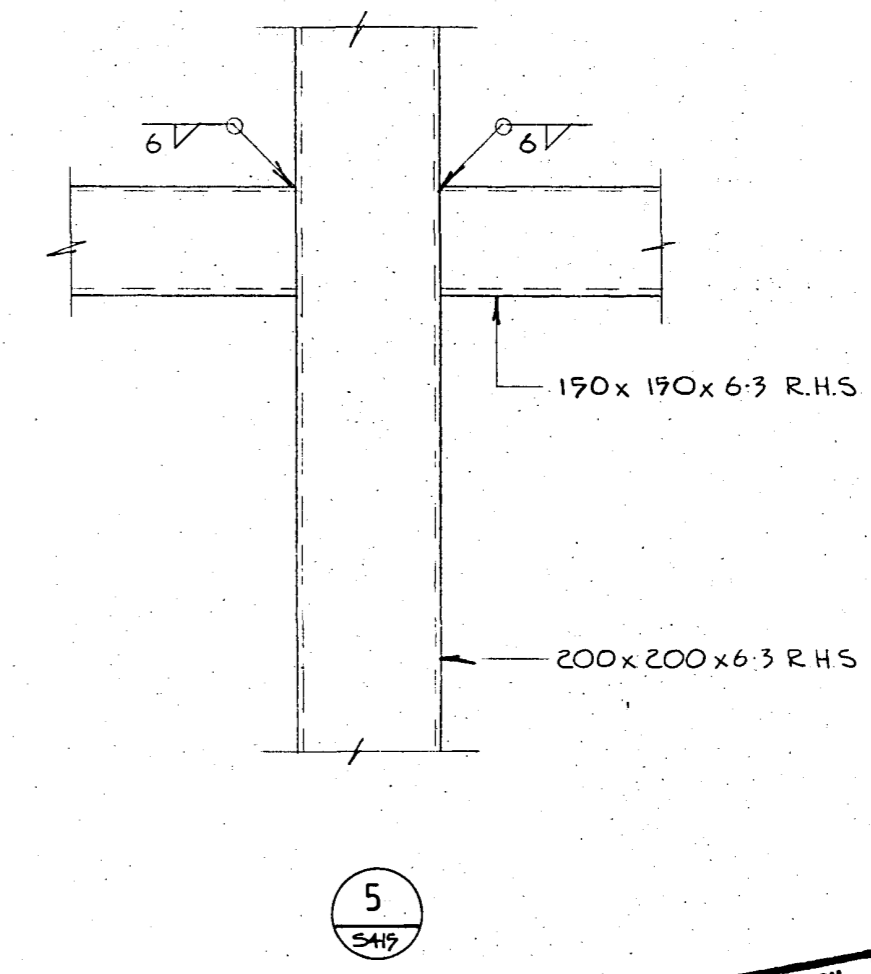
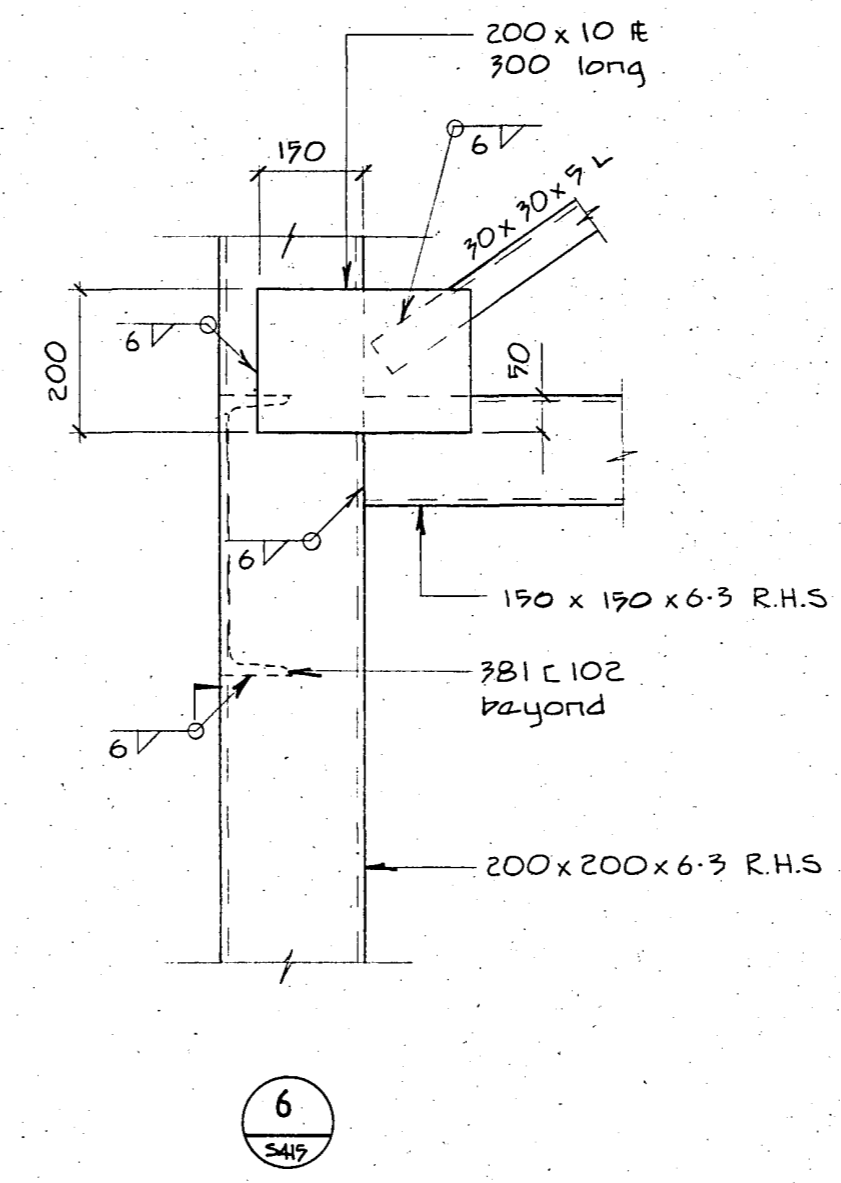
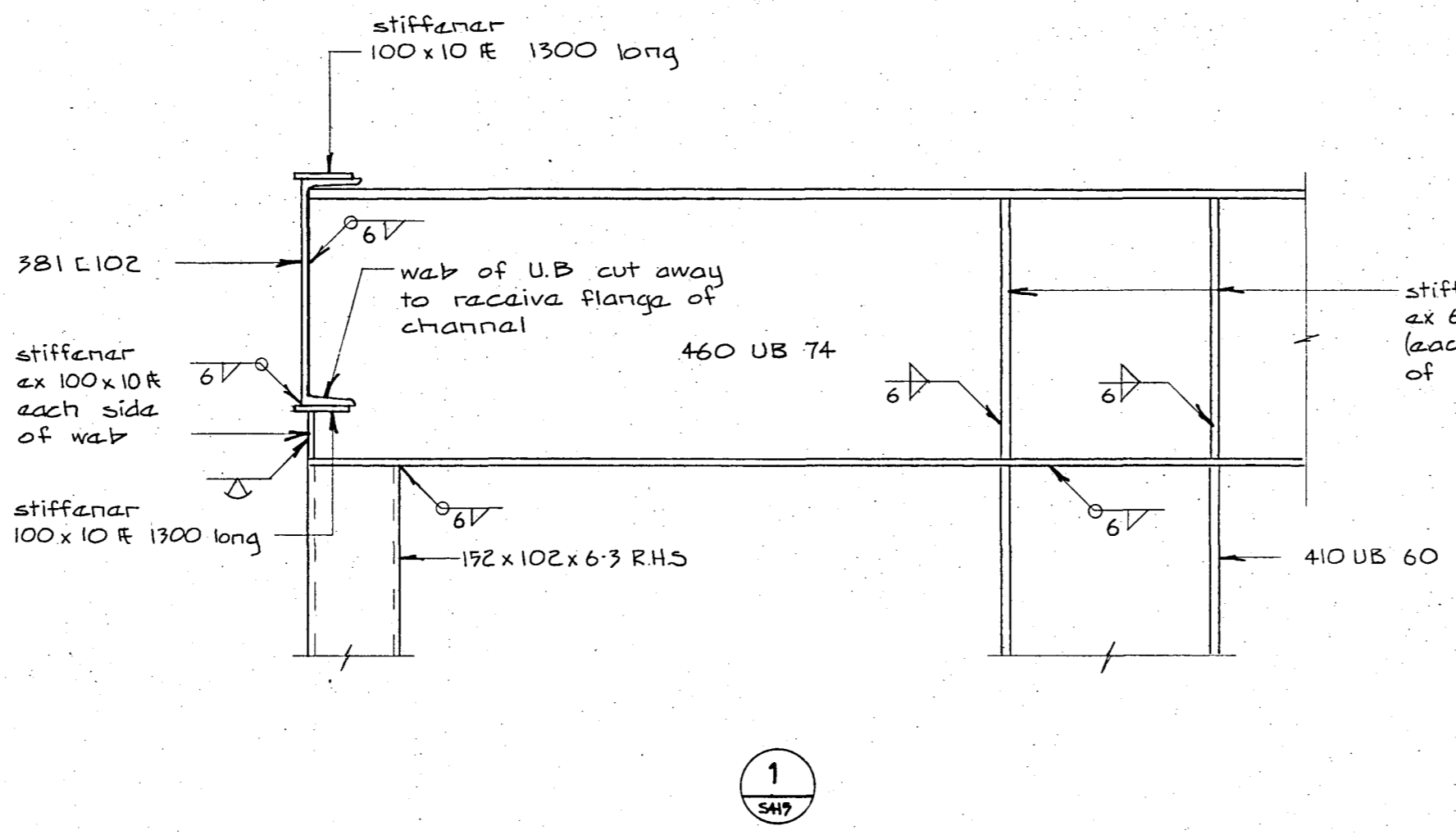
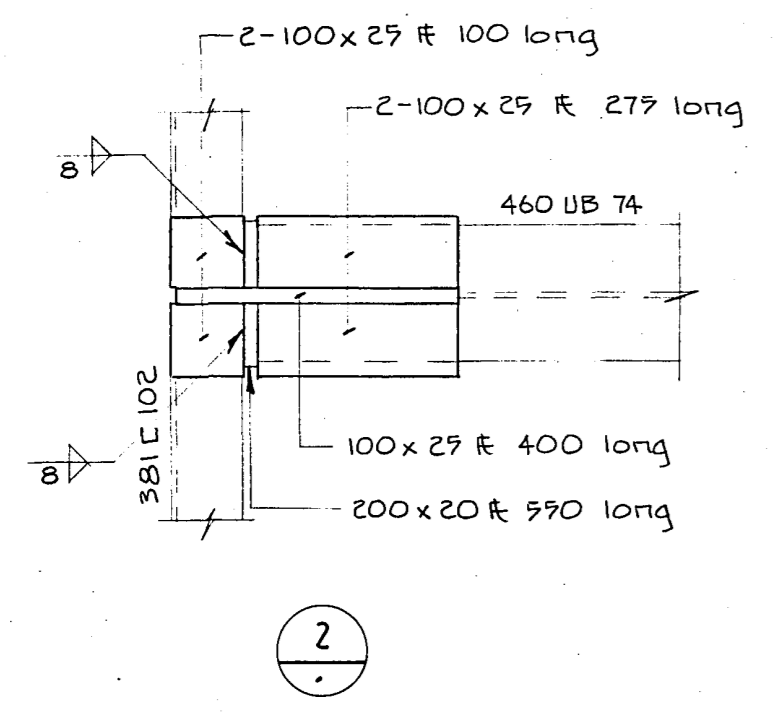
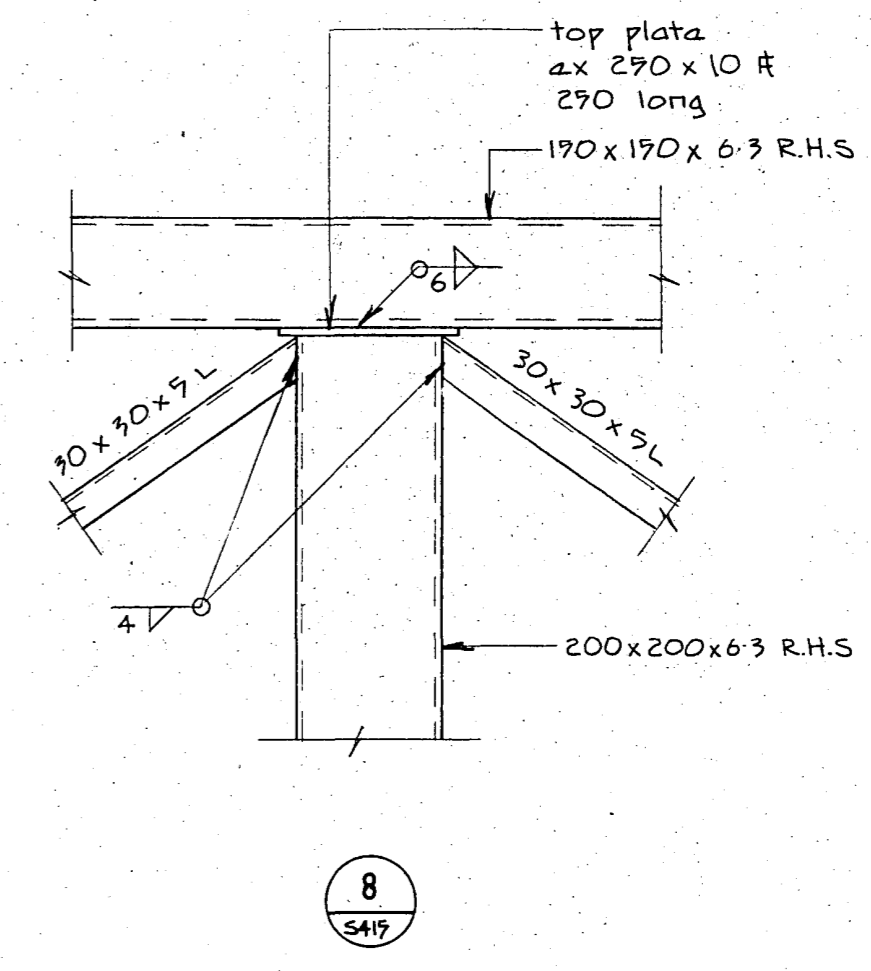
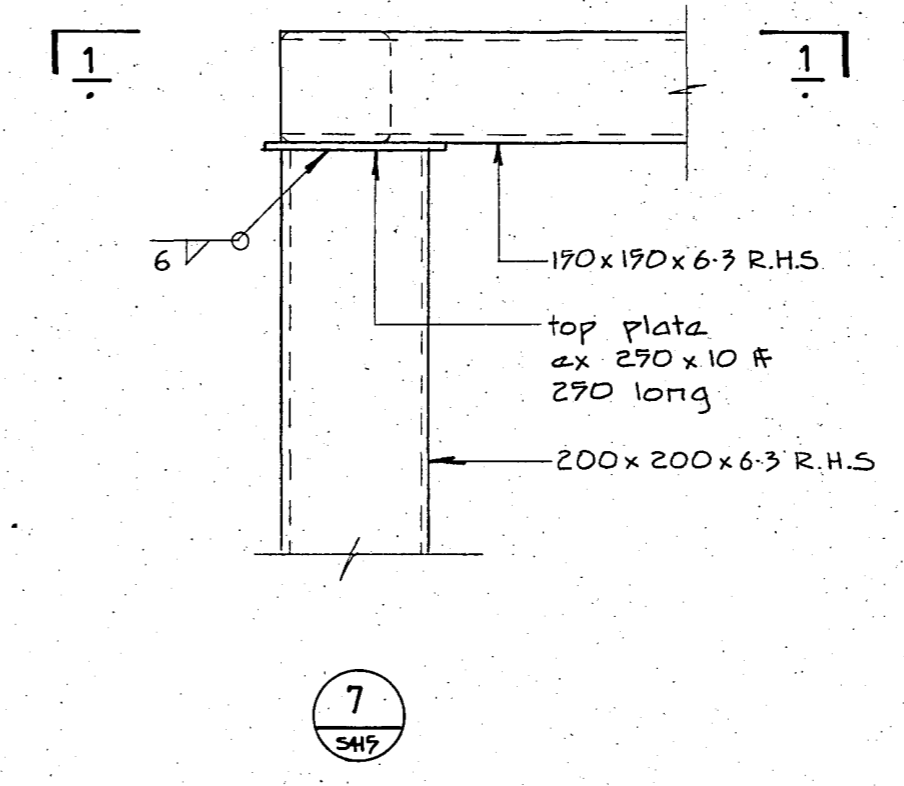
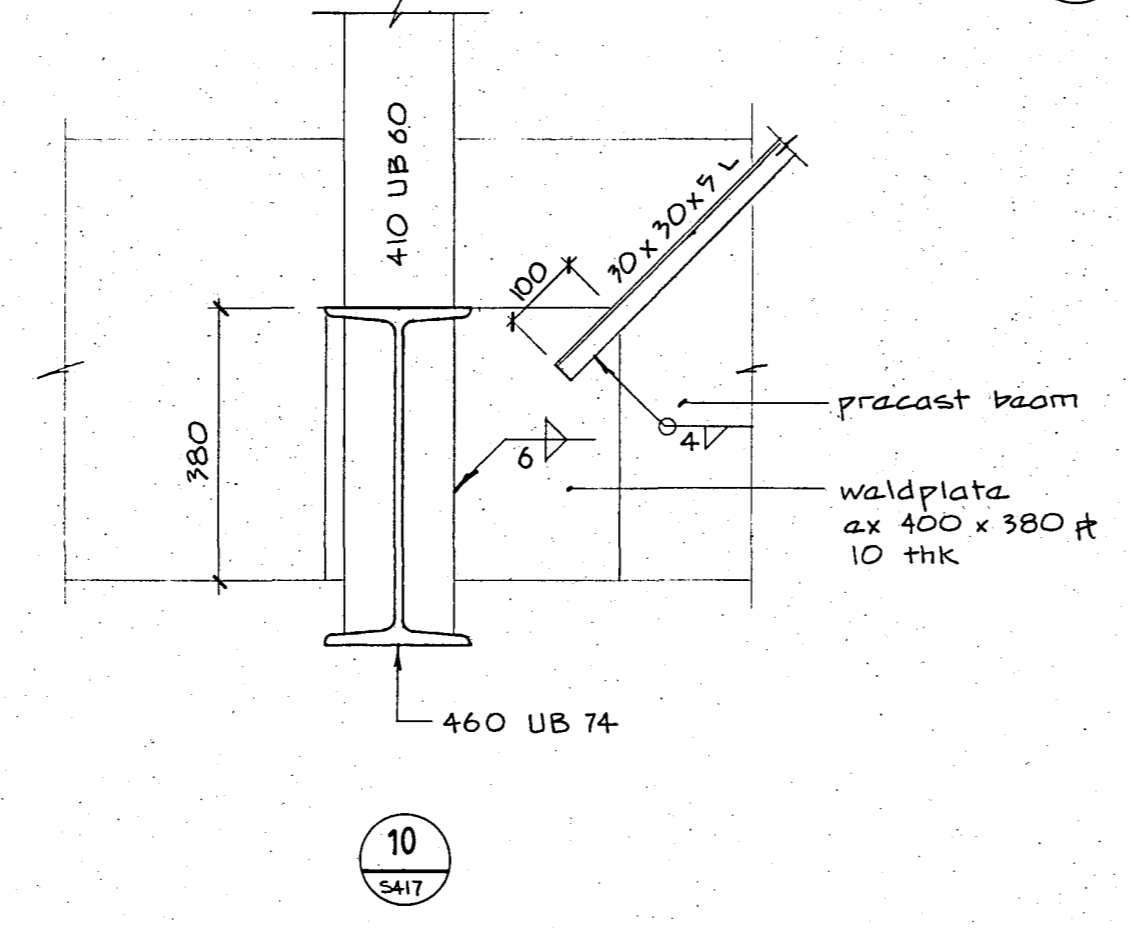
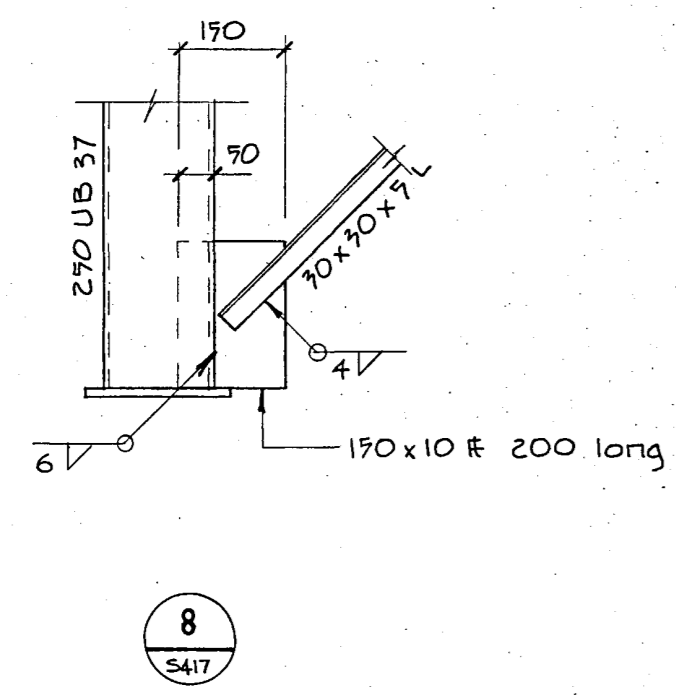
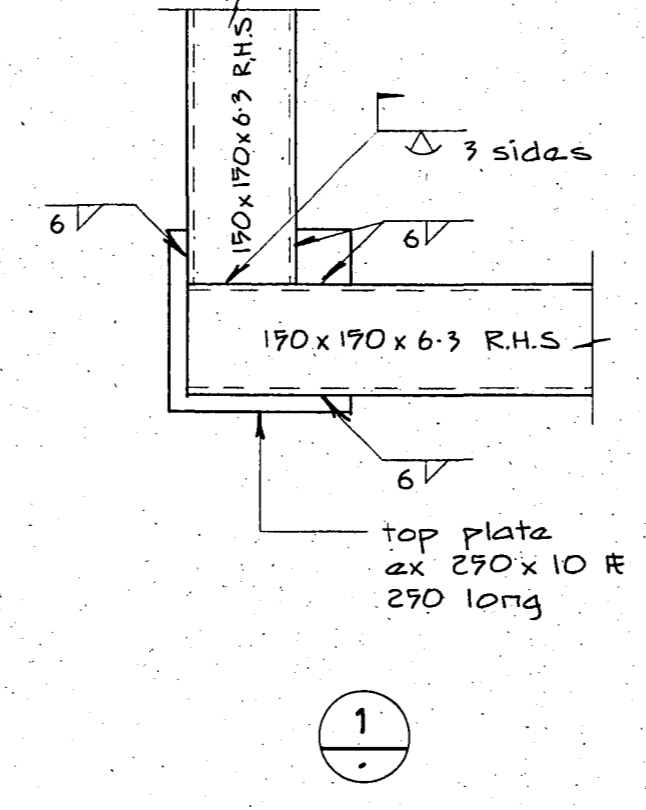
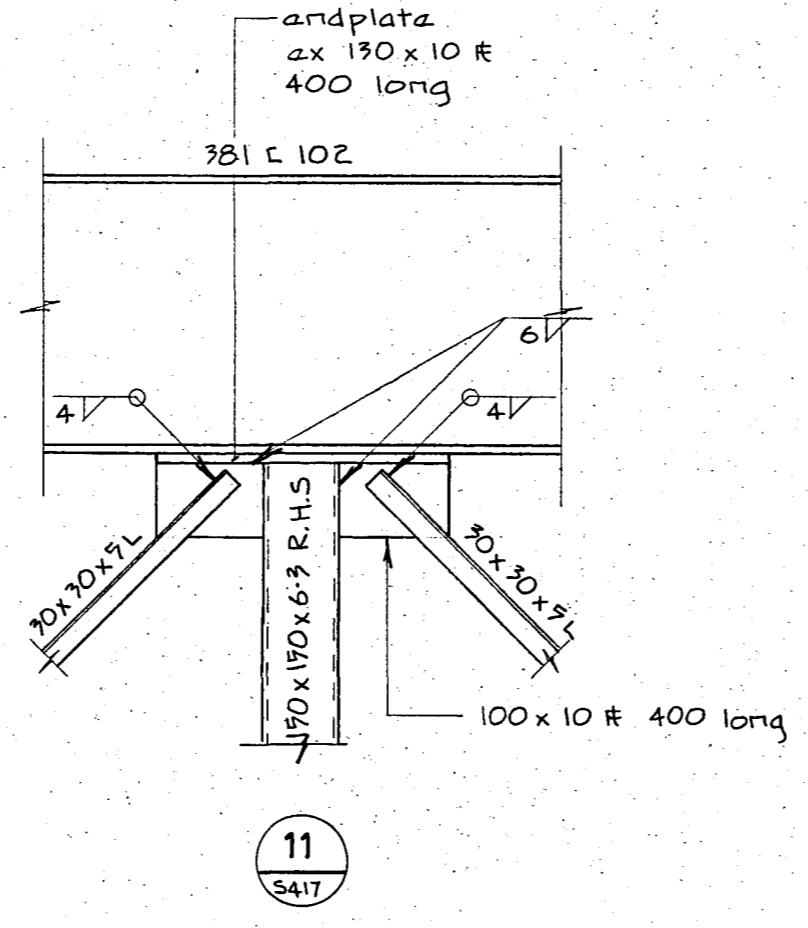
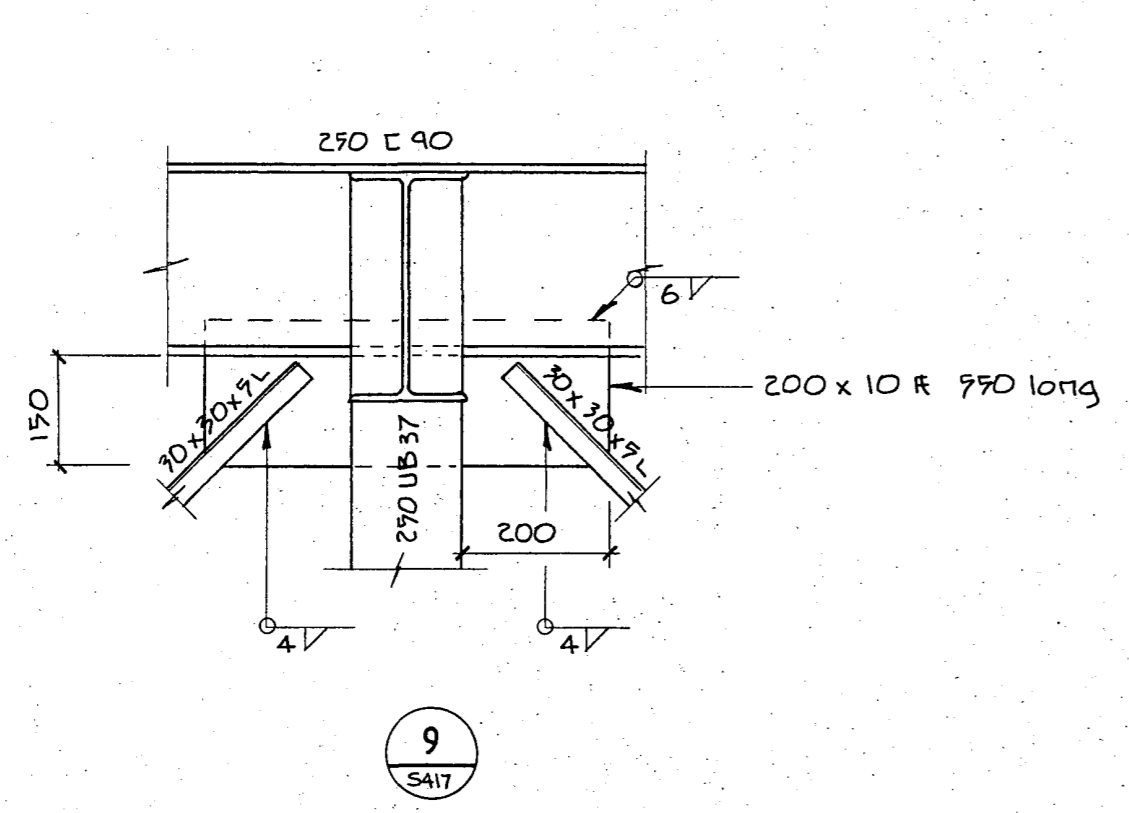
ROBERT JONES HOUSE  
CHRISTCHURCH

DRAWN: J.W. SCALE: 1:50  
APPROVED:

SHEET TITLE:  
PLANT ROOM AND LMR  
STEELWORK DETAILS

JOB NO: 2281 SHEET NO: S416 REV:

CHRISTCHURCH CITY COUNCIL  
Approval Subject to the By-Laws  
26 APR 1988  
Per Engineer



For package										
4	6	7	8	9	10	11	12	13	14	15

Rev	Date	Amendments

Warren & Mahoney Architects Ltd  
Christchurch Wellington & Auckland

HOLMES CONSULTING GROUP  
STRUCTURAL AND CIVIL ENGINEERS  
Christchurch, Wellington, New Plymouth, Auckland

CHRISTCHURCH CITY COUNCIL  
Approved Subject to the By-Laws  
26 APR 1988  
F.S. Engineer

ROBERT JONES  
HOUSE  
CHRISTCHURCH

DRAWN: J.W. SCALE: 1:10  
APPROVED:

SHEET TITLE:  
PLANT ROOM AND LMR  
STEELWORK DETAILS

JOB NO: 2281 SHEET NO: S417 REV: