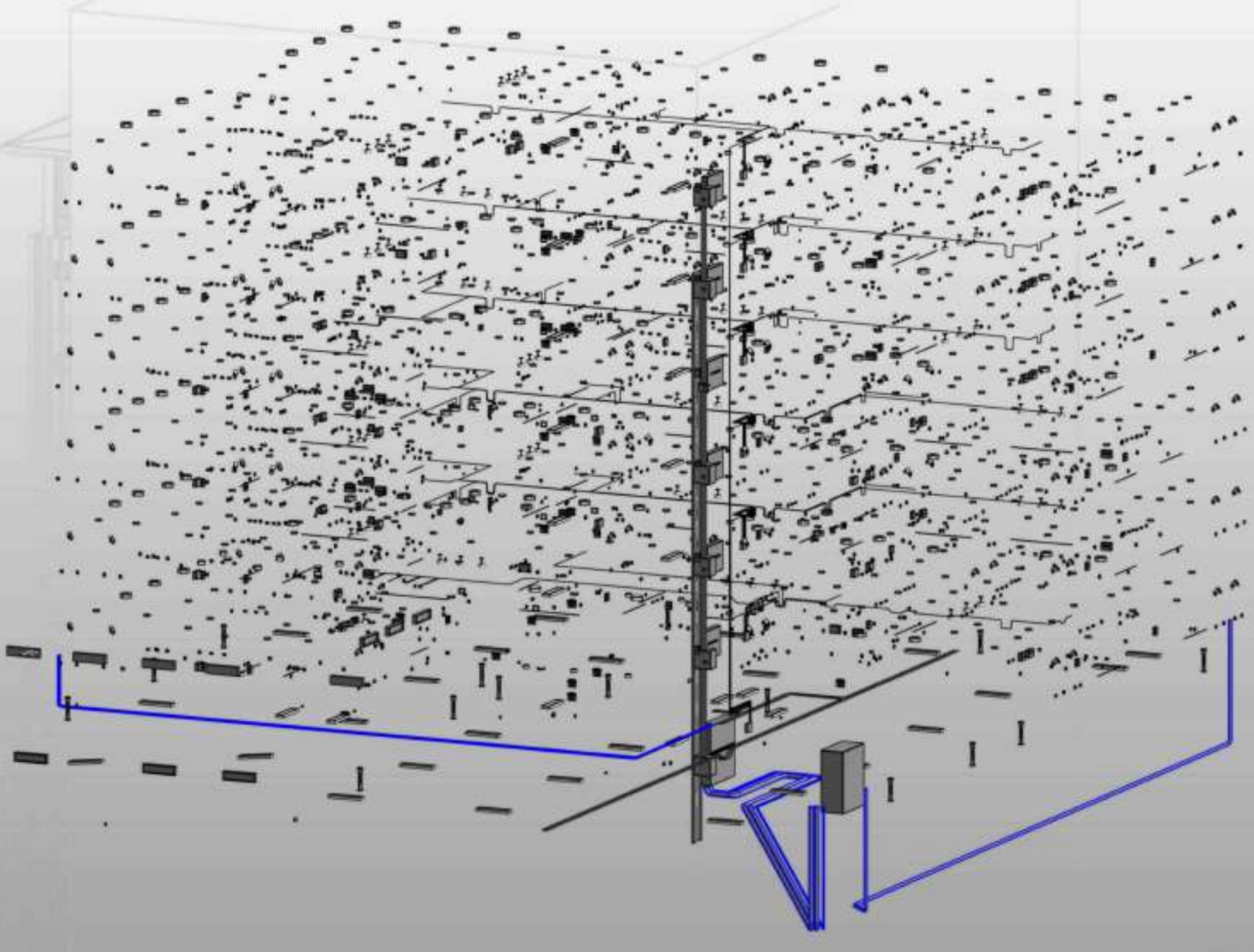
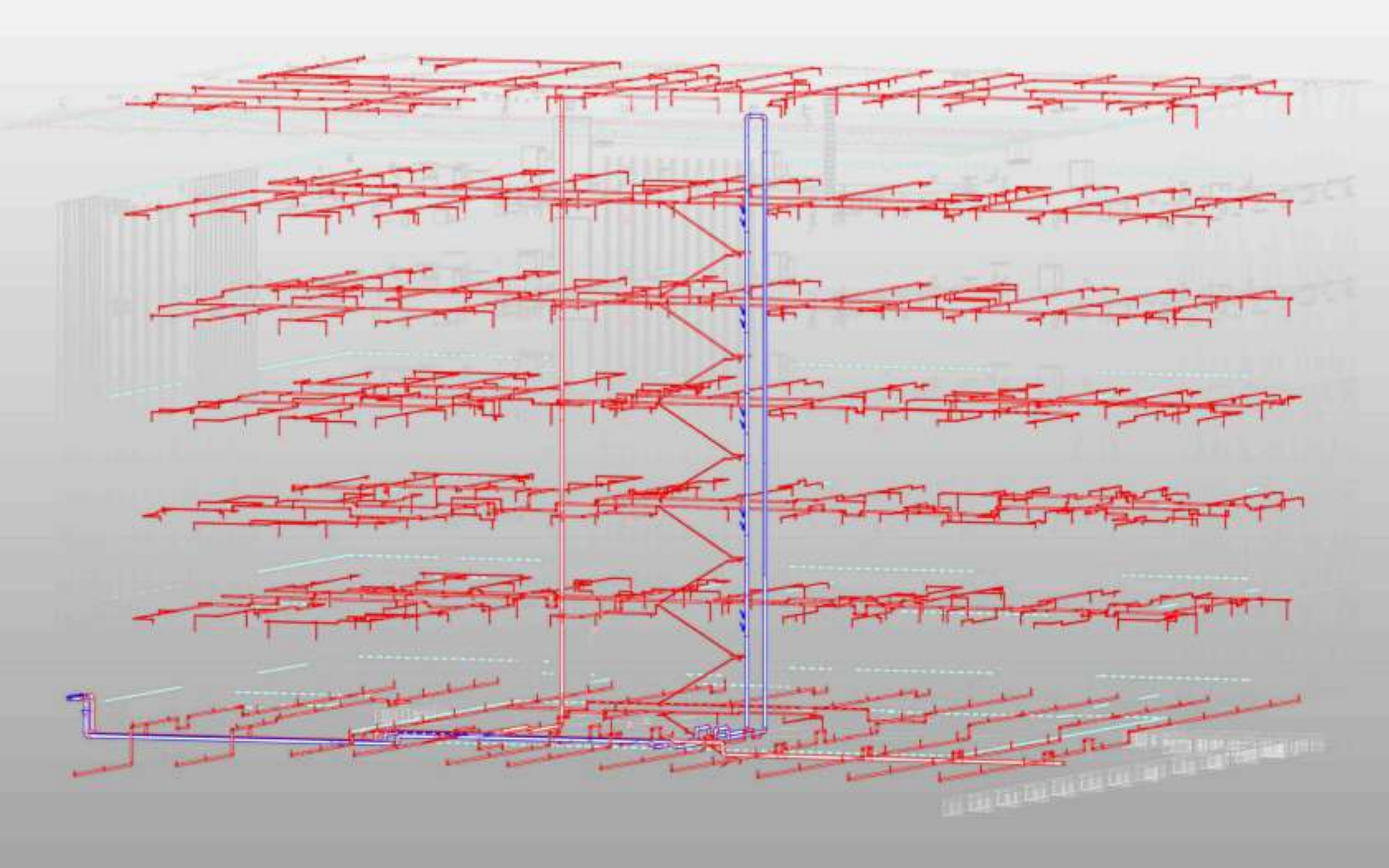
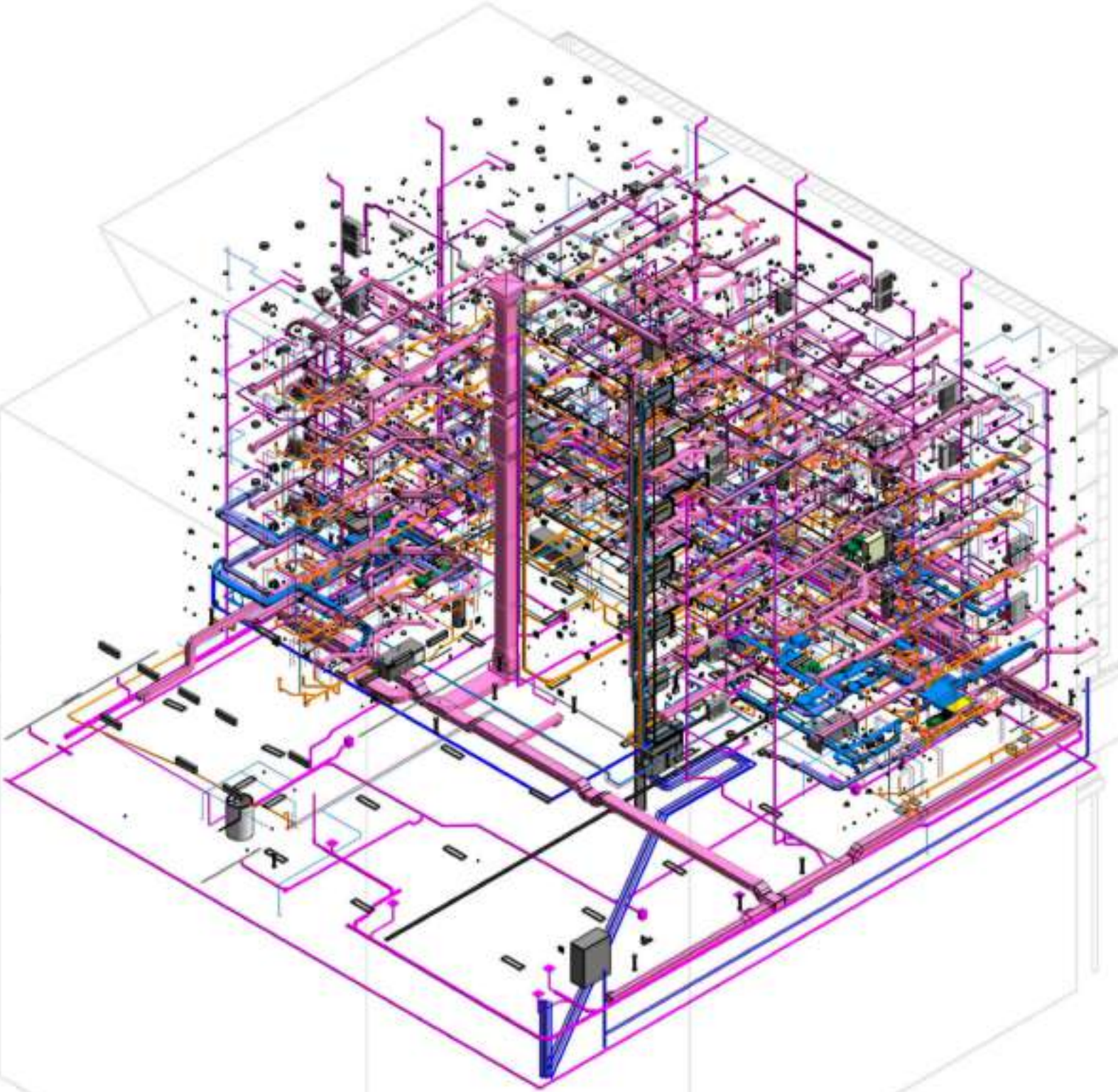
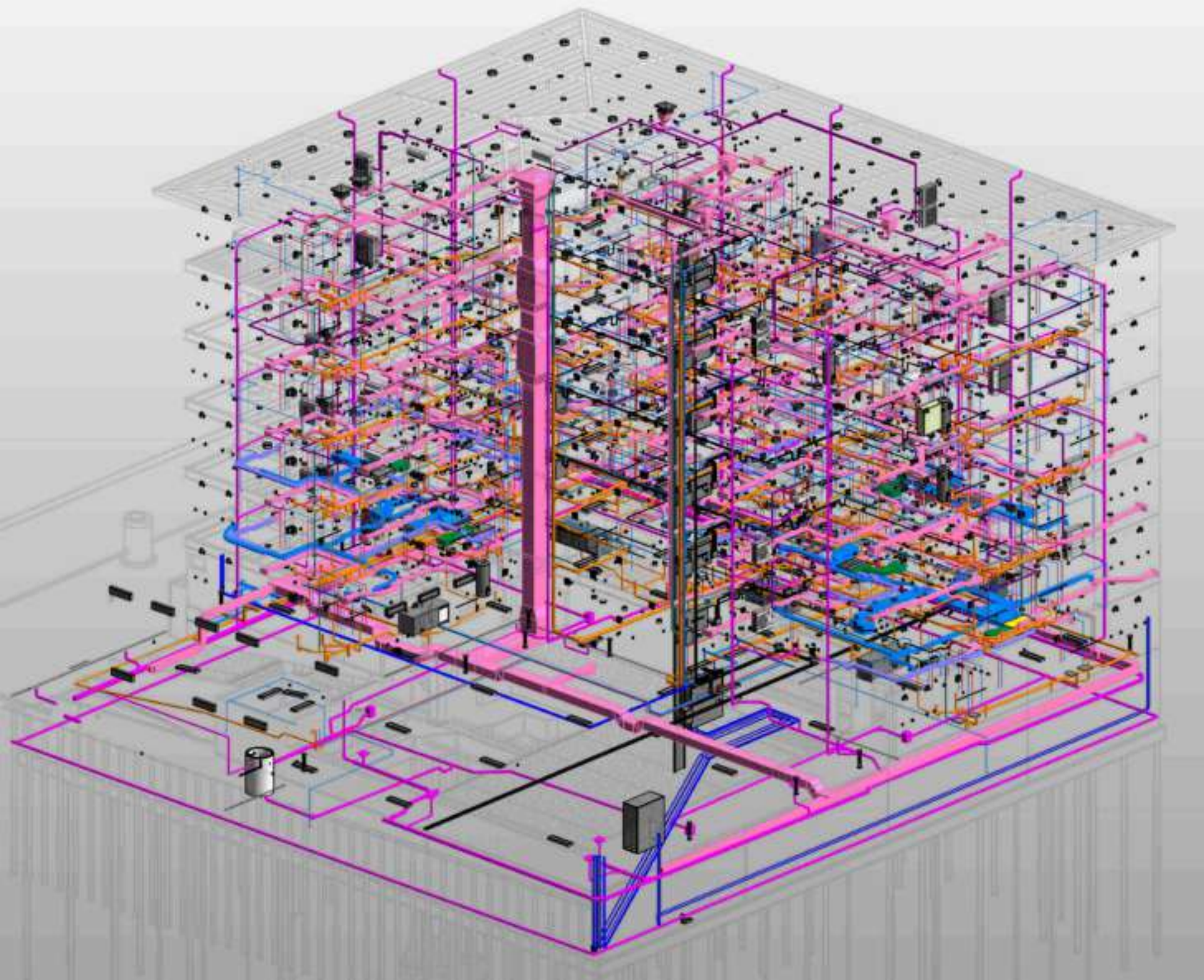
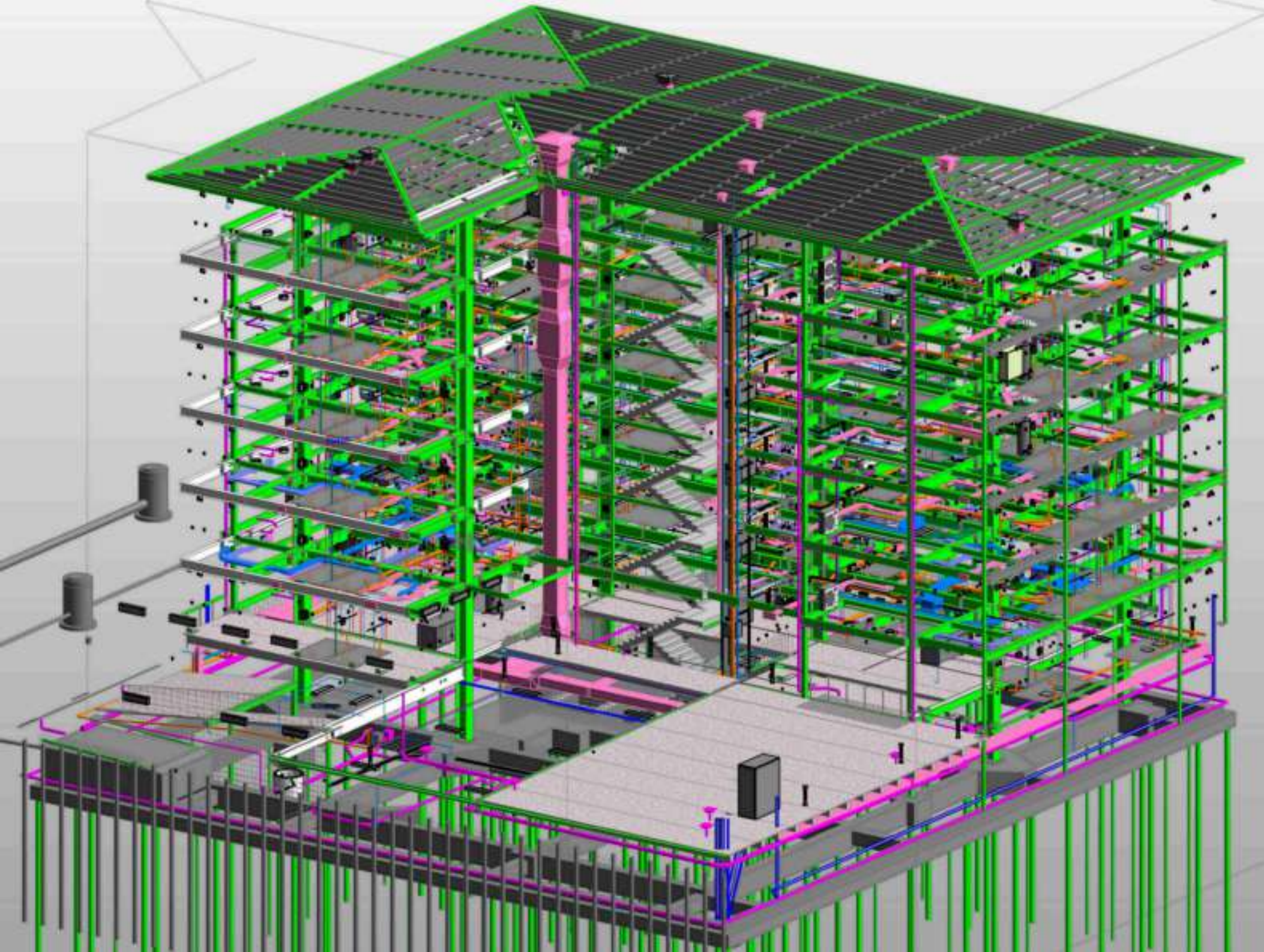
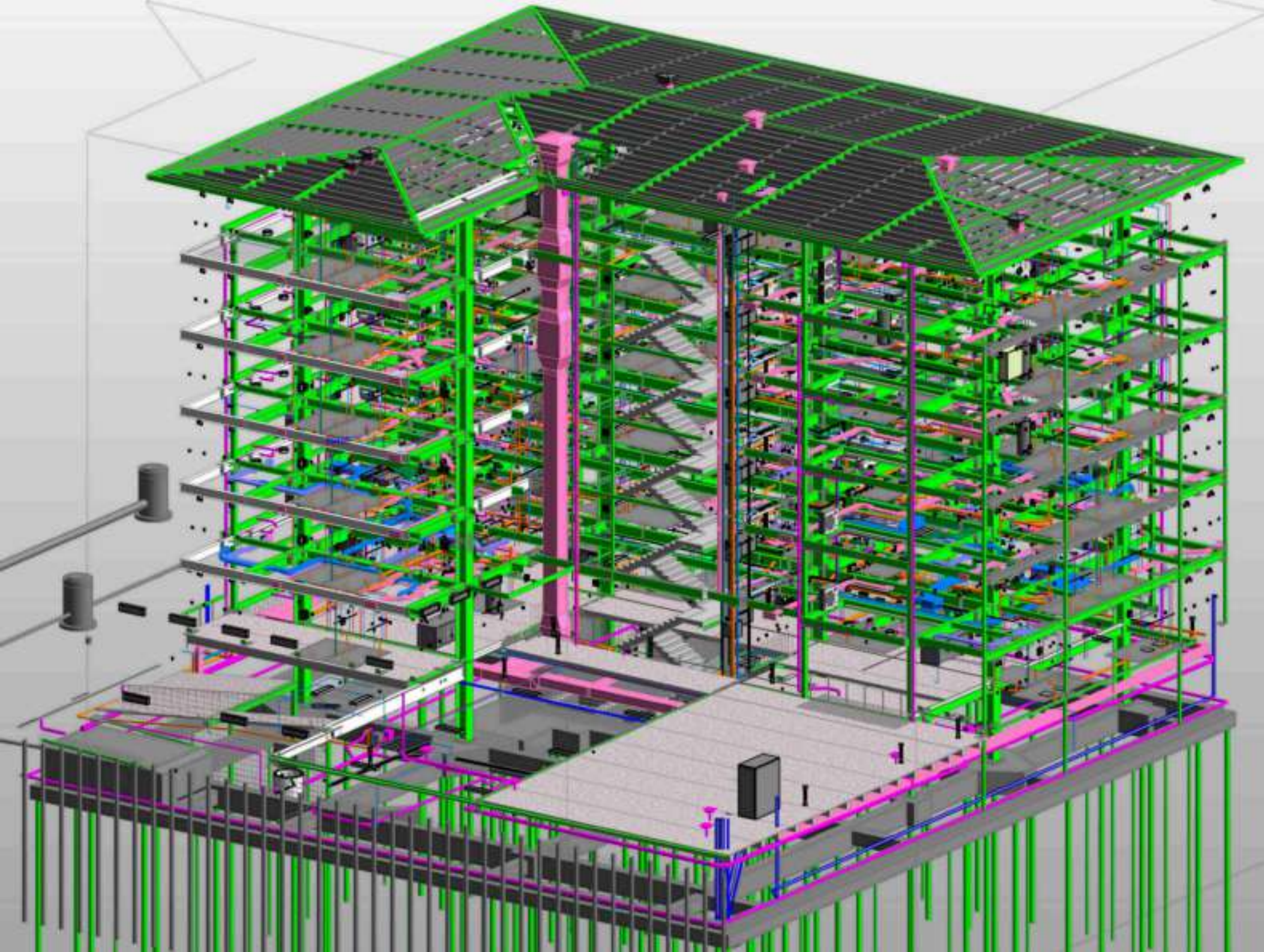


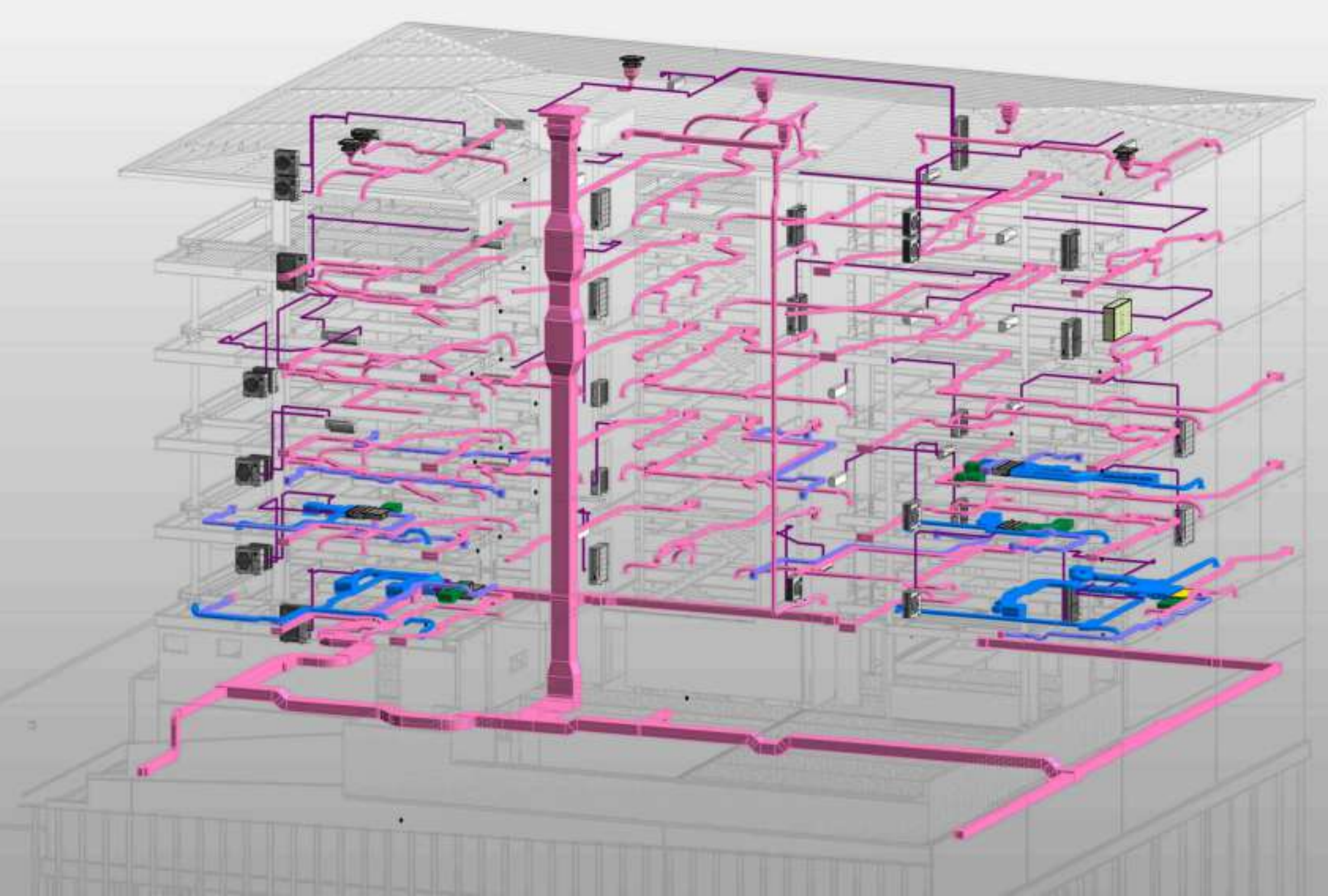


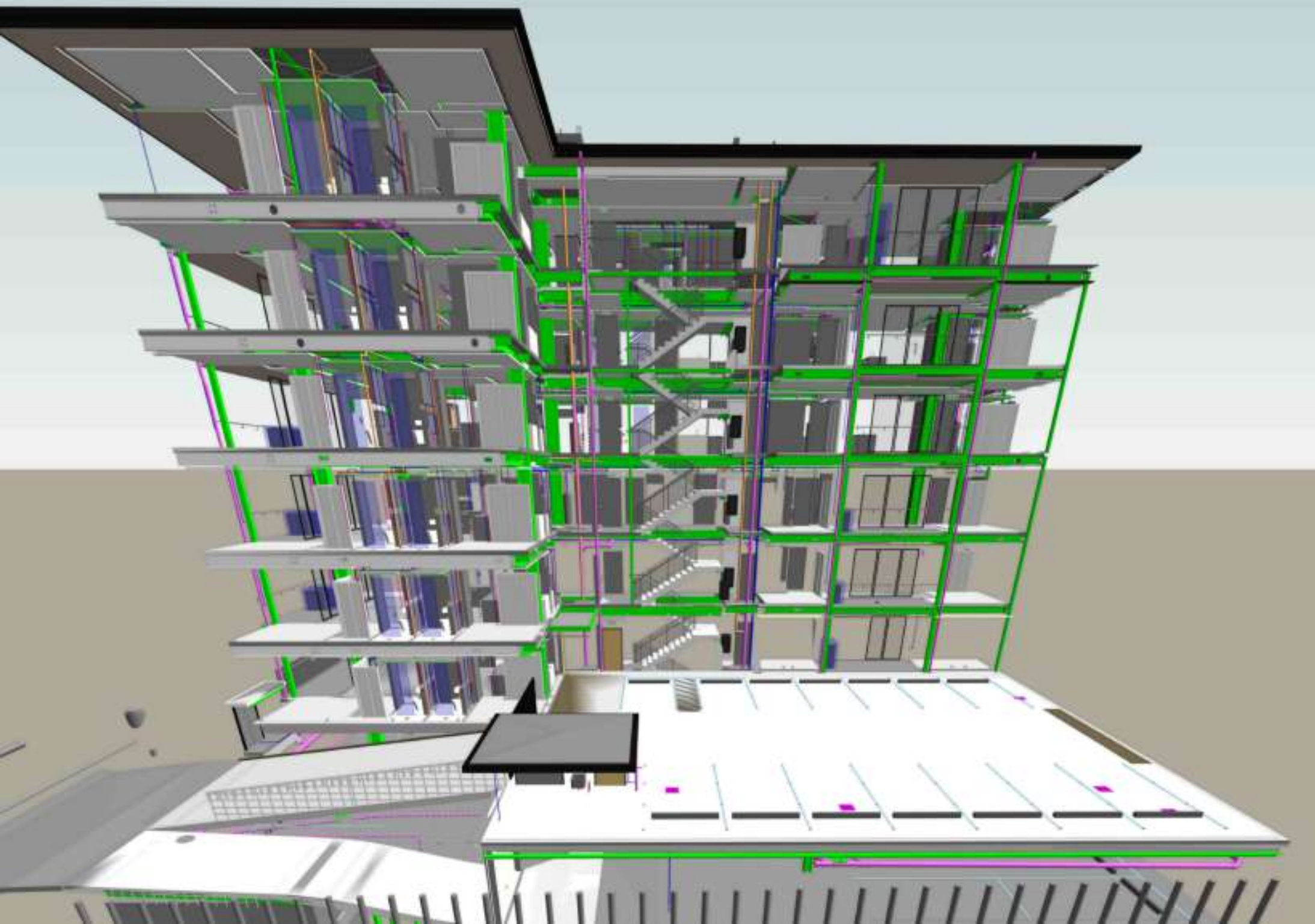


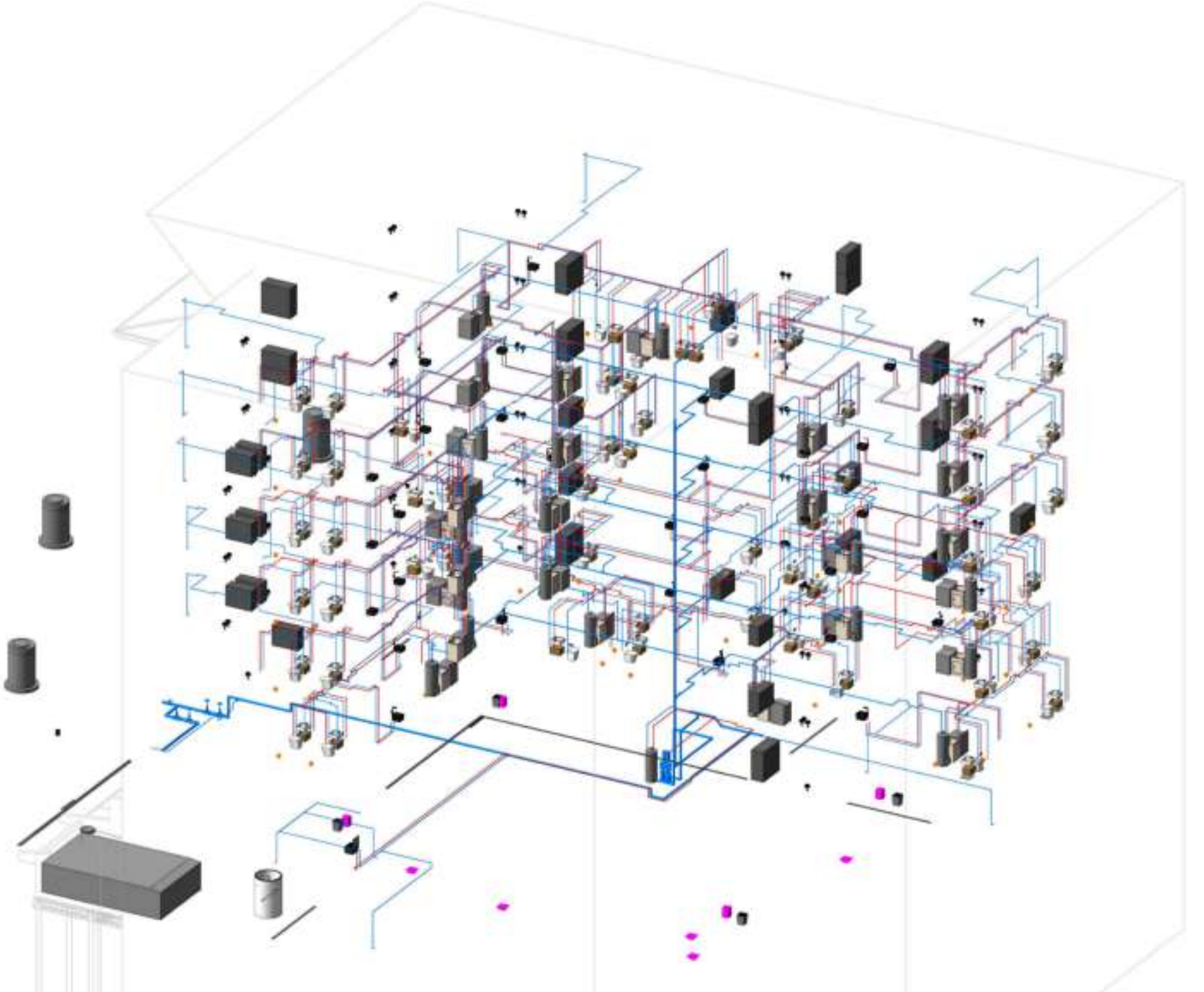


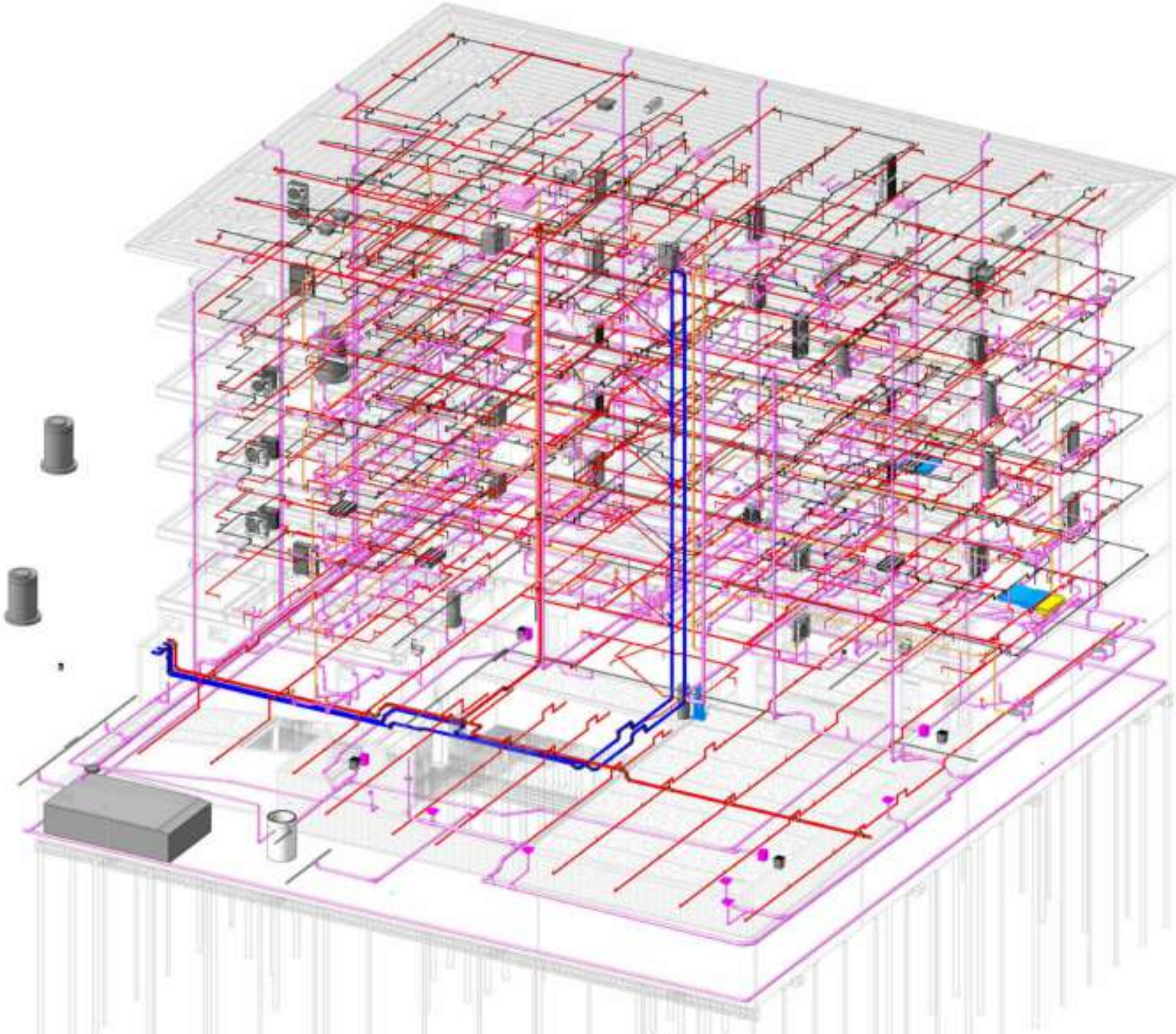


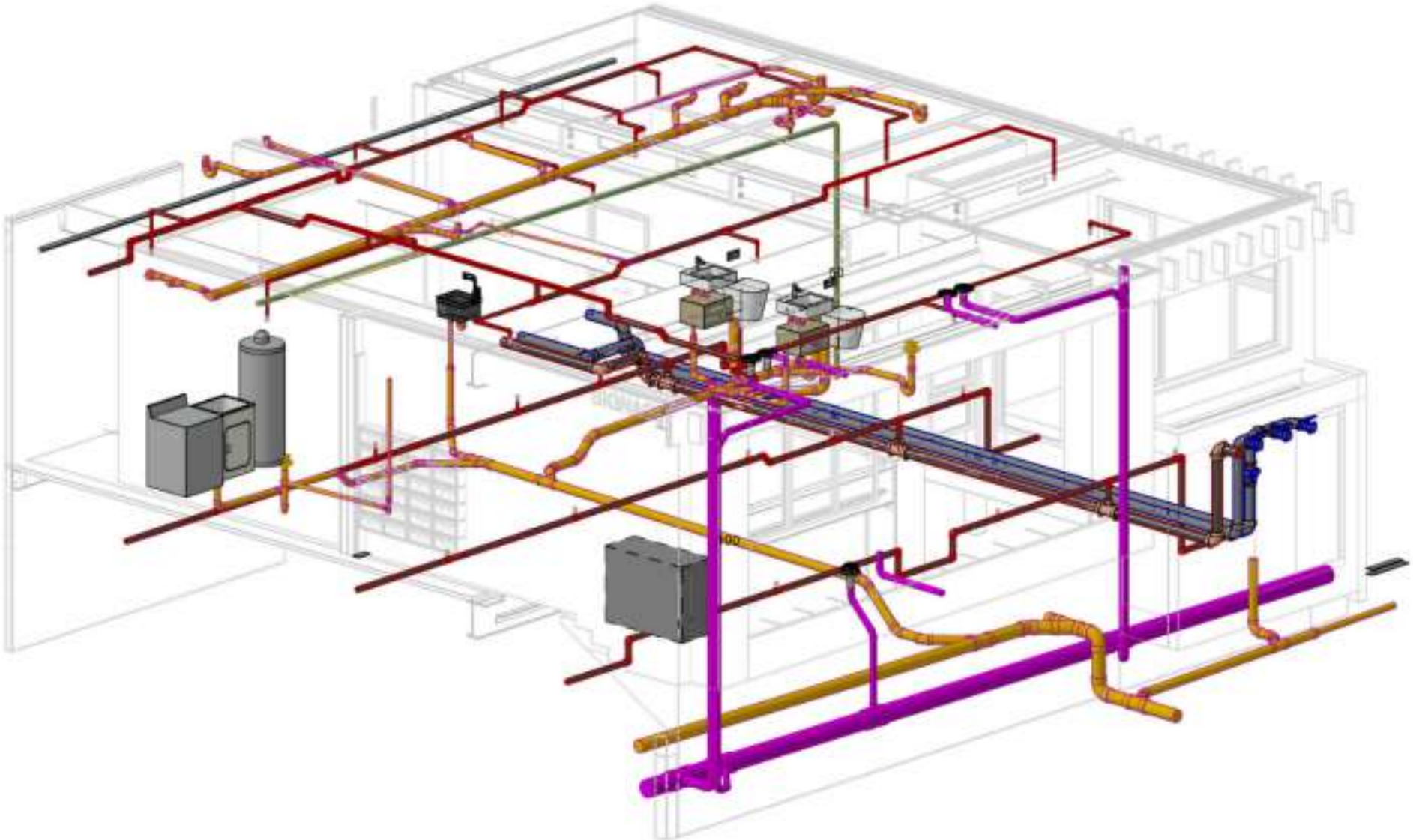


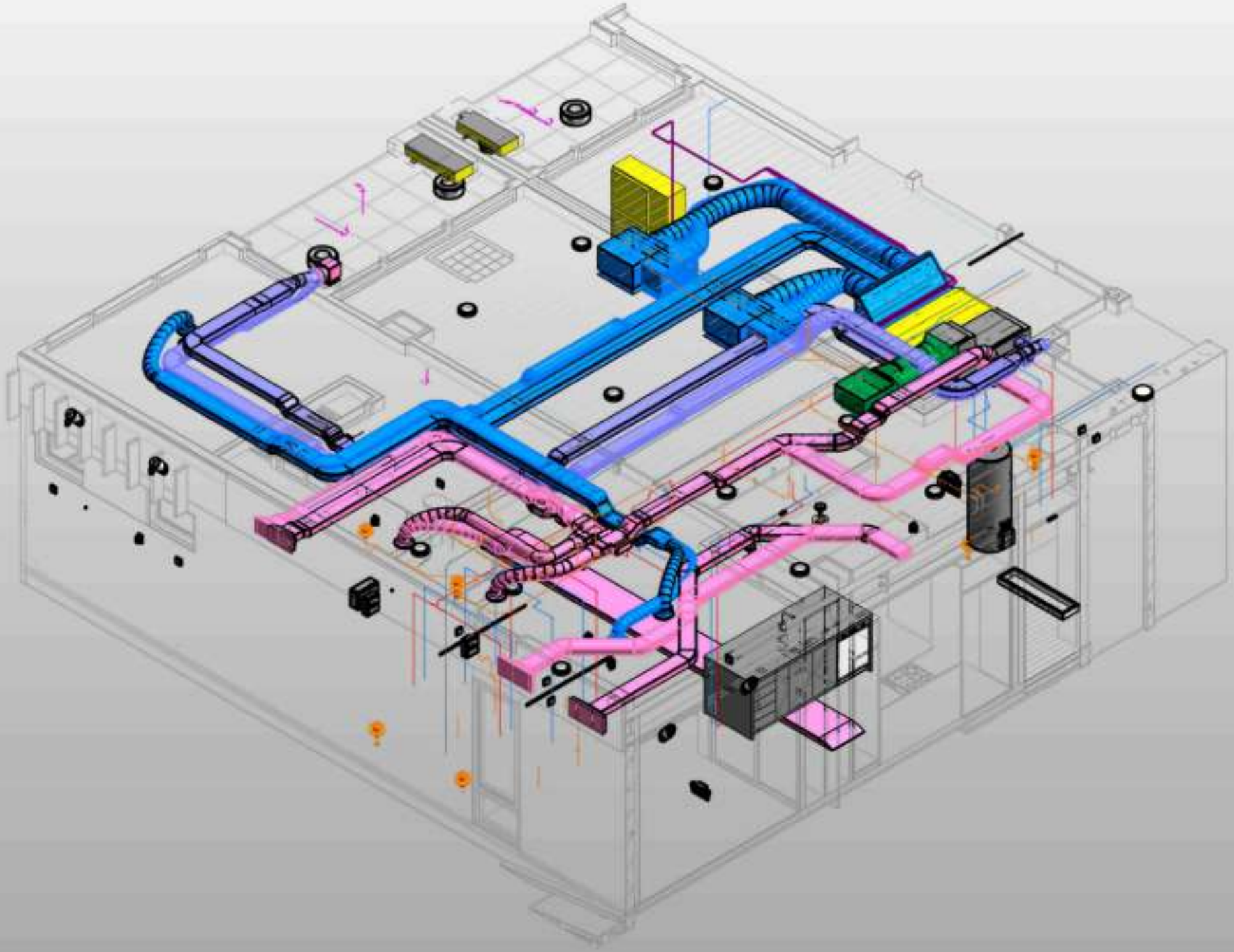


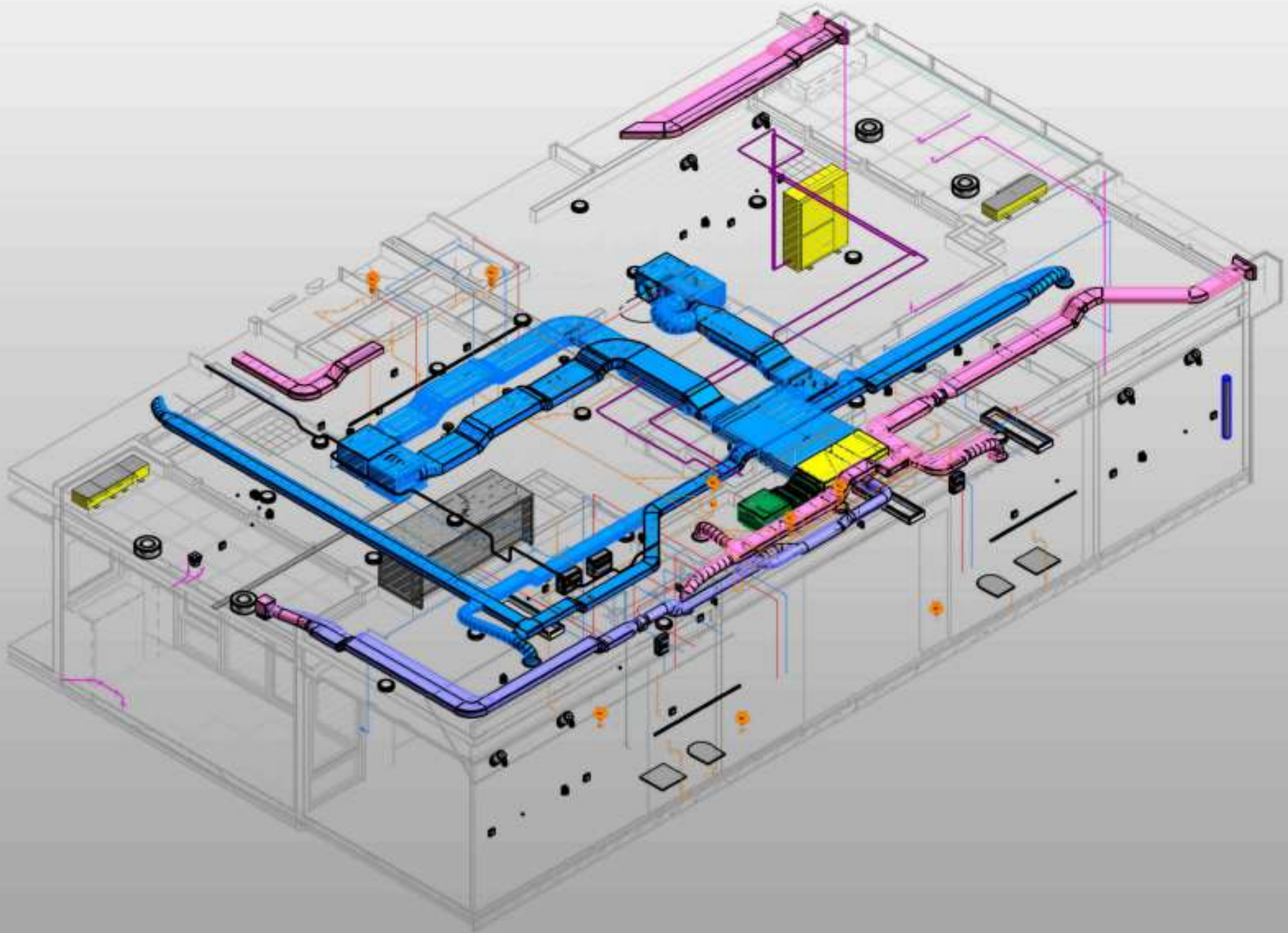


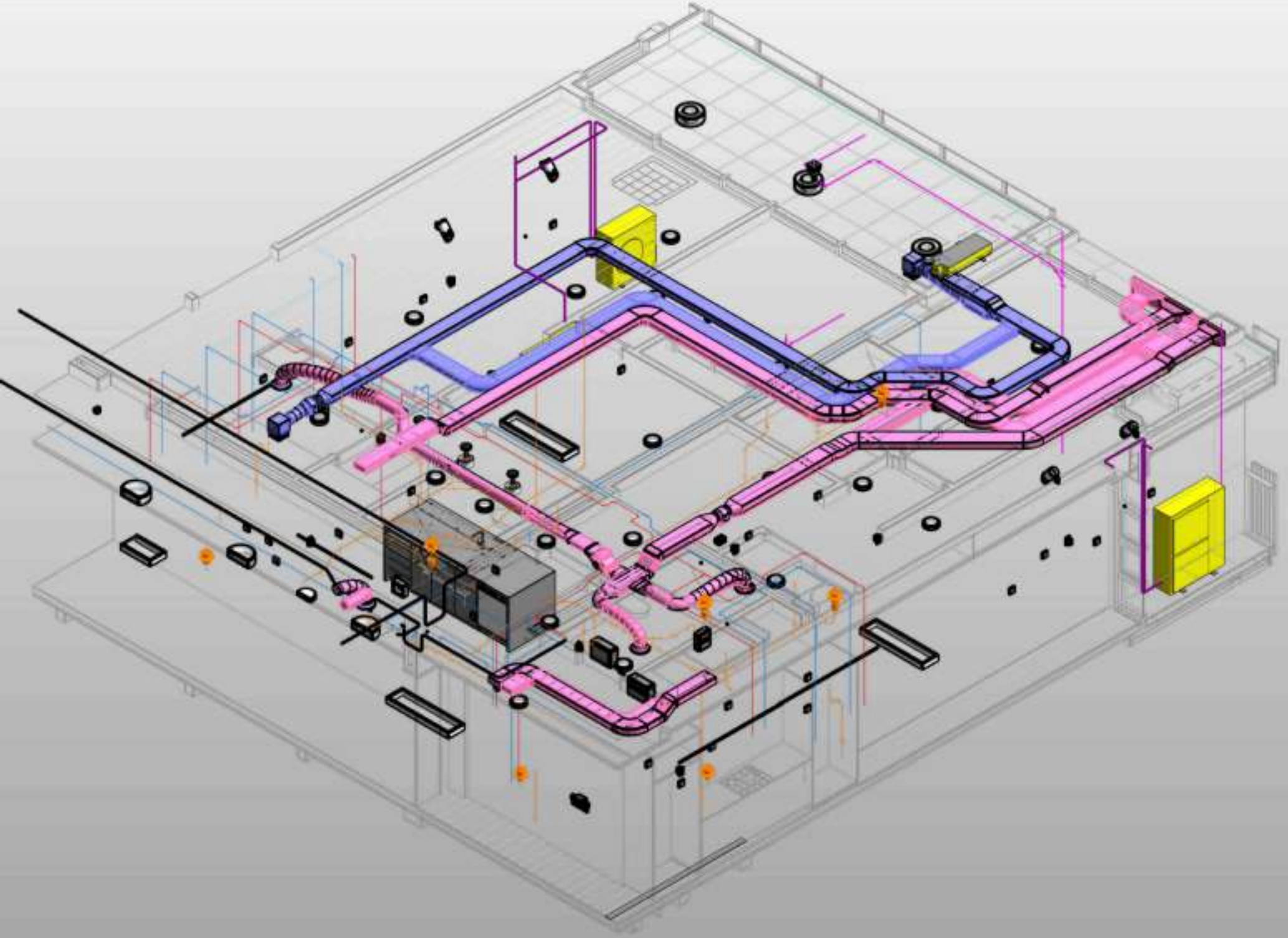


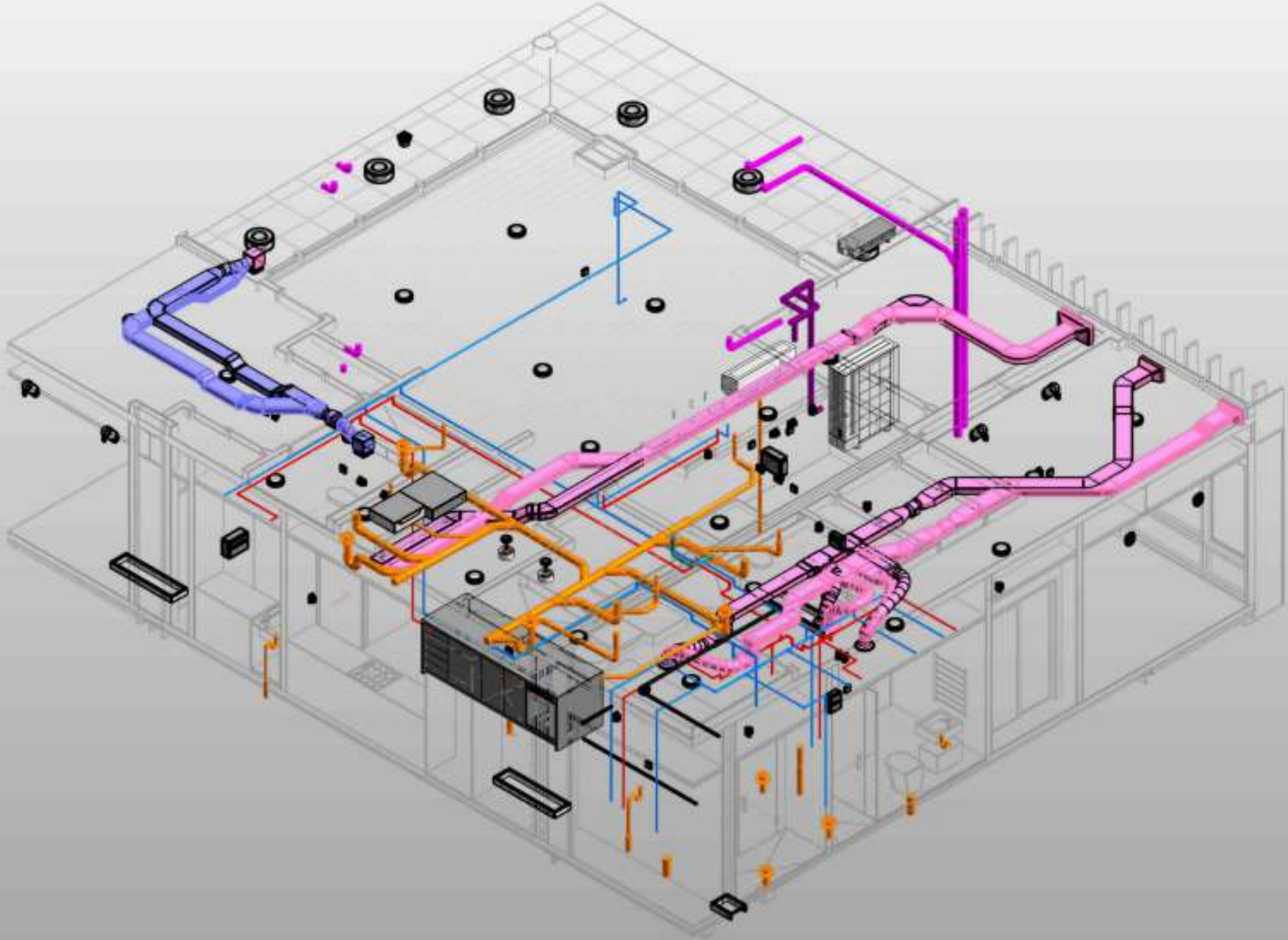


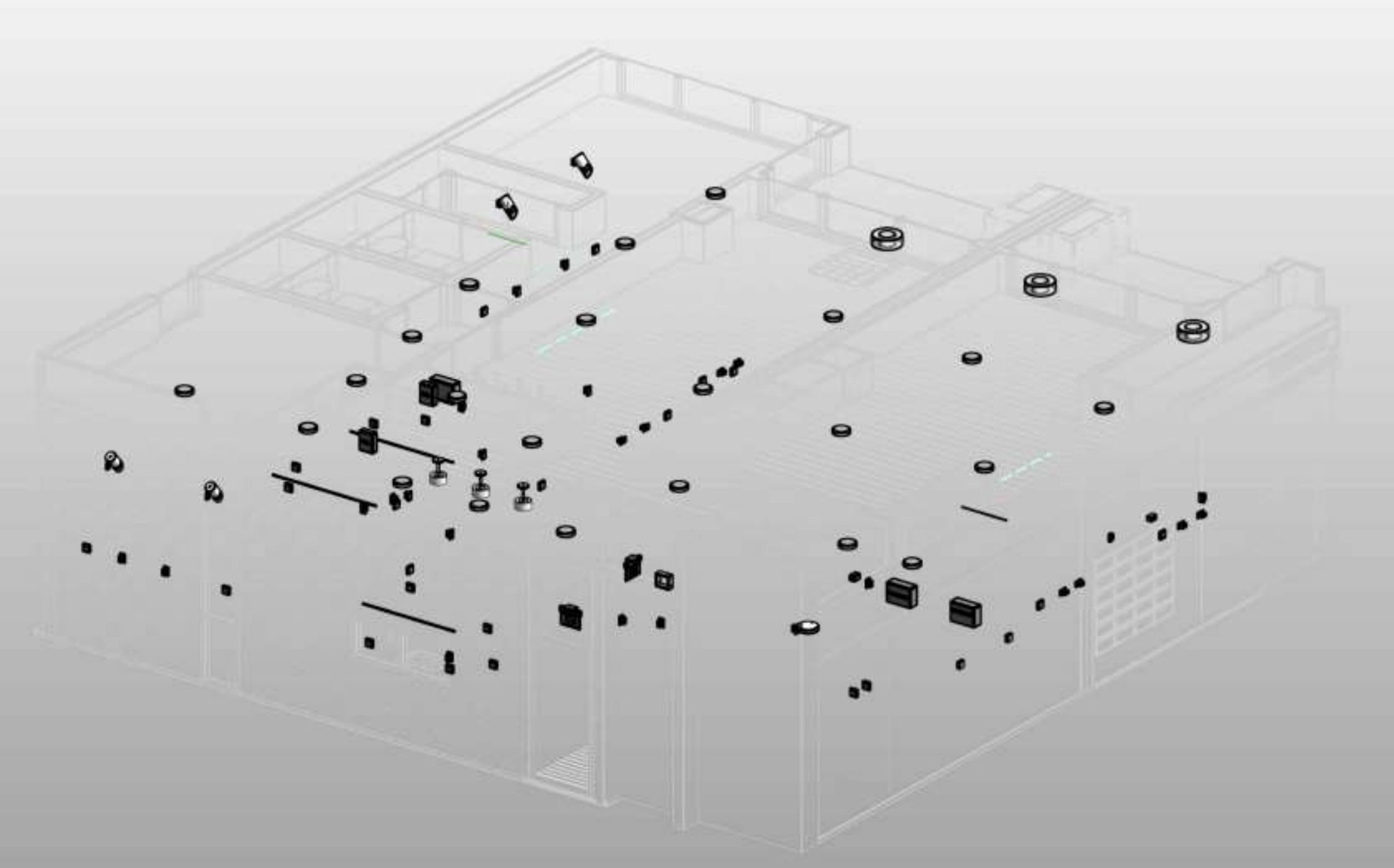


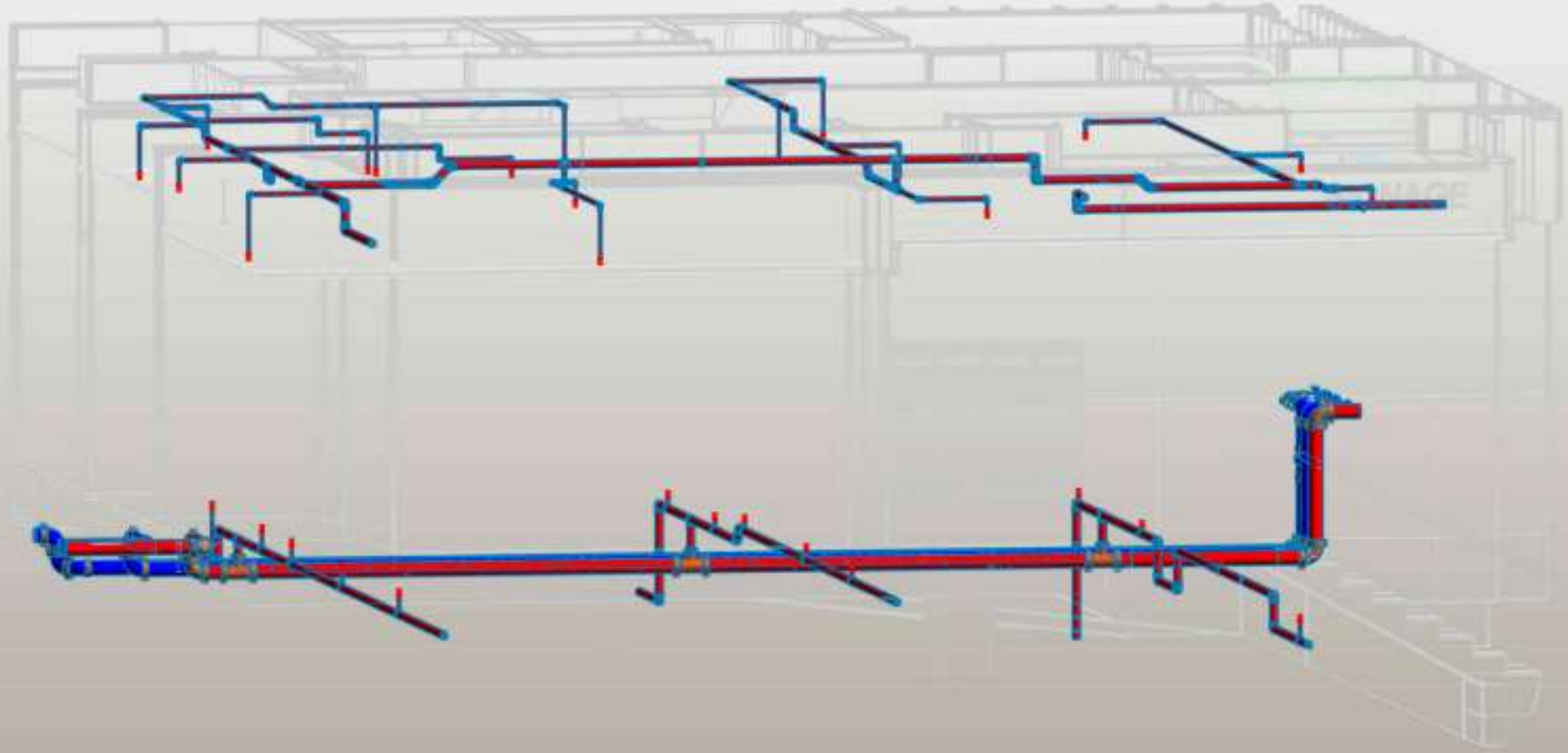












SHEET LIST

SHEET NUMBER	SHEET NAME	ISSUE	ISSUED DATE	CURRENT ISSUED DESCRIPTION
E00	COVER PAGE & SHEET LIST	G	18-12-18	BASEMENT SHOP DRAWING ADDED
E01	LEGEND	A	08-12-18	ISSUED FOR APPROVAL
E03	BASEMENT COMMON AREA LIGHTING & POWER LAYOUT	A	18-12-18	BASEMENT SHOP DRAWING ADDED
E04	LEVEL 1 COMMON AREA LIGHTING & POWER LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
E05	LEVEL 2 COMMON AREA LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E06	LEVEL 3 COMMON AREA LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E07	LEVEL 4 COMMON AREA LIGHTING & POWER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E08	LEVEL 5 COMMON AREA LIGHTING & POWER LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
E09	LEVEL 6 COMMON AREA LIGHTING & POWER LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL
E10	TYPICAL DISTRIBUSTION ROOM LAYOUT DETAILS	A	18-12-18	ISSUED FOR APPROVAL
E12	ENLARGE APARTMENT 1A LIGHTING & POWER LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
E13	ENLARGE APARTMENT 1B LIGHTING & POWER LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
E14	ENLARGE APARTMENT 1C LIGHTING & POWER LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
E15	ENLARGE APARTMENT 1D LIGHTING & POWER LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
E16	ENLARGE APARTMENT 2A LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E17	ENLARGE APARTMENT 2B LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E18	ENLARGE APARTMENT 2C LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E19	ENLARGE APARTMENT 2D LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E20	ENLARGE APARTMENT 2E LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E21	ENLARGE APARTMENT 2F LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E22	ENLARGE APARTMENT 3A LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E23	ENLARGE APARTMENT 3B LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E24	ENLARGE APARTMENT 3C LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E25	ENLARGE APARTMENT 3D LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E26	ENLARGE APARTMENT 3E LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E27	ENLARGE APARTMENT 3F LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E28	ENLARGE APARTMENT 4A LIGHTING & POWER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E29	ENLARGE APARTMENT 4B LIGHTING & POWER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E30	ENLARGE APARTMENT 4C LIGHTING & POWER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E31	ENLARGE APARTMENT 4D LIGHTING & POWER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E32	ENLARGE APARTMENT 4E LIGHTING & POWER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E33	ENLARGE APARTMENT 5A LIGHTING & POWER LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
E34	ENLARGE APARTMENT 5B LIGHTING & POWER LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
E35	ENLARGE APARTMENT 5C LIGHTING & POWER LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
E36	ENLARGE APARTMENT 5D LIGHTING & POWER LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
E37	ENLARGE APARTMENT 6A LIGHTING & POWER LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL
E38	ENLARGE APARTMENT 6B LIGHTING & POWER LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL
E39	ENLARGE APARTMENT 6C LIGHTING & POWER LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL
E40	BASEMENT ULTRAFAST FIBER LAYOUT	A	18-12-18	BASEMENT SHOP DRAWING ADDED
E41	LEVEL 1 ULTRAFAST FIBER LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
E42	LEVEL 2 ULTRAFAST FIBER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E43	LEVEL 3 ULTRAFAST FIBER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E44	LEVEL 4 ULTRAFAST FIBER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E45	LEVEL 5 ULTRAFAST FIBER LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
E46	LEVEL 6 ULTRAFAST FIBER LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL
EA00	BASEMENT ACCESS CONTROL LAYOUT	A	18-12-18	BASEMENT SHOP DRAWING ADDED
EA01	LEVEL 1 ACCESS CONTROL LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
EA02	LEVEL 2 ACCESS CONTROL LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
EA03	LEVEL 3 ACCESS CONTROL LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
EA04	LEVEL 4 ACCESS CONTROL LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
EA05	LEVEL 5 ACCESS CONTROL LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
EA06	LEVEL 6 ACCESS CONTROL LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL

PROJECT NAME : LATITUDE APARTMENTS

PROJECT NO. : FBB1090

ELECTRICAL SERVICES

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
G	18-12-18	BASEMENT SHOP DRAWING ADDED	
F	10-12-18	LEVEL 6 SHOP DRAWING ADDED	
E	08-12-18	LEVEL 5 SHOP DRAWING ADDED	
D	03-12-18	LEVEL 4 SHOP DRAWING ADDED	
C	30-11-18	LEVEL 3 SHOP DRAWING ADDED	
B	28-11-18	LEVEL 2 SHOP DRAWING ADDED	
A	26-11-18	LEVEL 1 SHOP DRAWING ADDED	

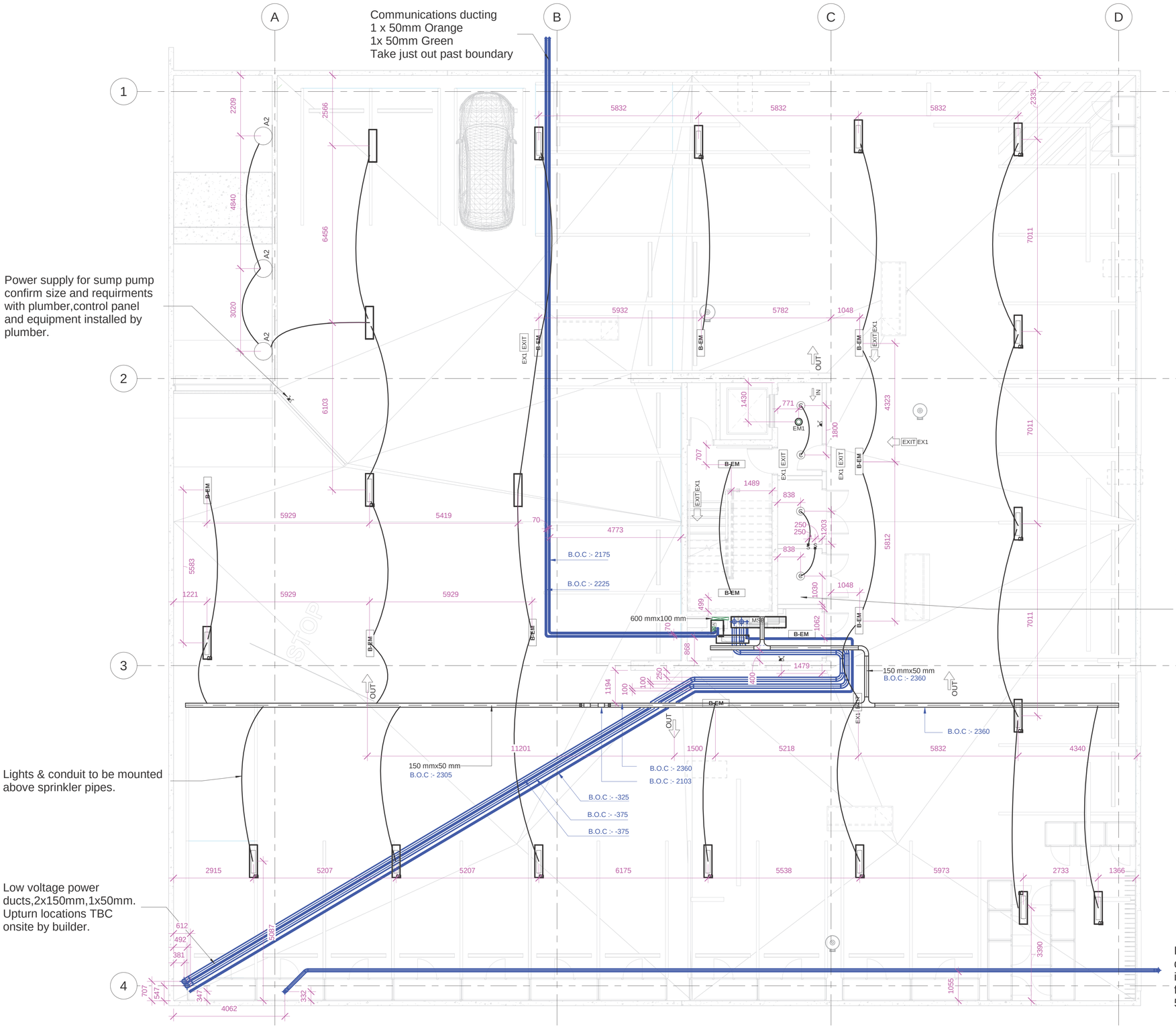
Scale	A1=
Date	26/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: COVER PAGE & SHEET LIST

Drawing number: E00

Issue: G



1 BASEMENT COMMON AREA LIGHTING & POWER LAYOUT

1 : 75

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	18-12-18	BASEMENT SHOP DRAWING ADDED	

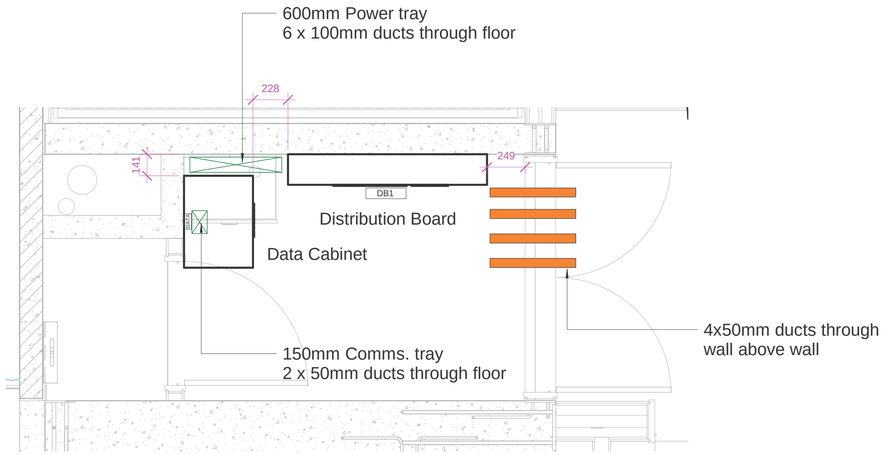
Scale	A1=1 : 75
Date	18/12/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: BASEMENT COMMON AREA LIGHTING & POWER LAYOUT

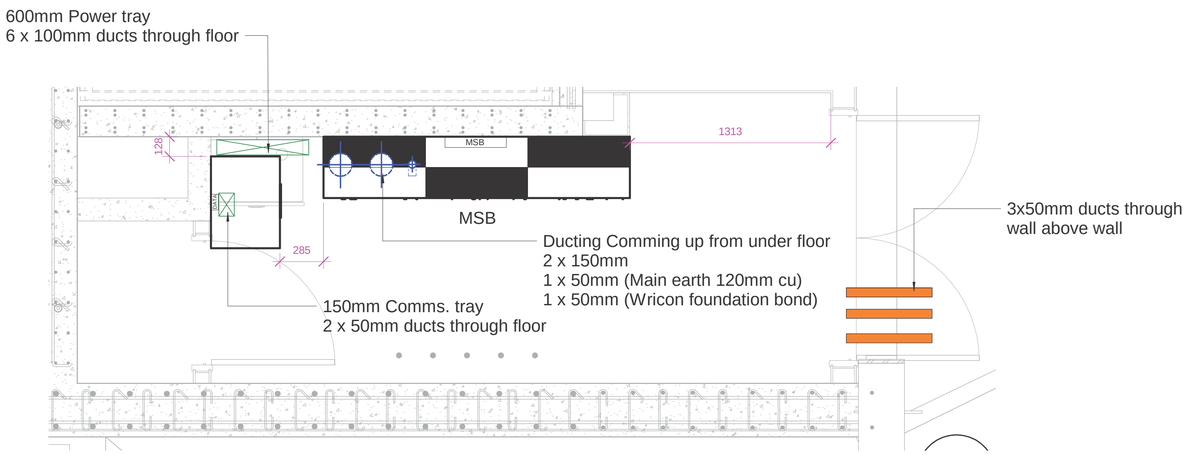
Drawing number: E03

Issue: A



1 Level 1 to 6 DISTRIBUTION ROOM DETAILS

1 : 20



2 BASEMENT DISTRUBUTION ROOM DETAILS

1 : 20

Equipment Dimensions

MSB	2000mm wide x 400mm deep x 2075mm height
DB's	1300mm wide x 200mm deep x 1000mm height
Data cabinet	600mm wide x 450mm deep x 635mm height
Power cable tray	600mm wide x 100mm deep
Data cable tray	150mm wide x 100mm deep

AS/NZS 3000:2007 requirements

* All Distribution boards requires 600mm clear space from edge of door swing.

* Switchboard room doors need to be able to be fixed in an open position

* Doors of switchboard rooms, or other rooms dedicated to switchboards, shall open in the direction of egress without the use, on the switchboards side of the door, of a key or tool

Earthing

* Earth bonding of structure and cable tray requirements to be determined on site by the electrician.

Other services

* Confirm power supply requirements for the following trades
- Fire alarm panel, all electrical for the fire trade by fire contractor
- Lift, all electrical services for the lift are by the lift contractor
- Mechanical services, all electrical for mechanical by mechanical contractor.

MSB includes space for mechanical controls and mcb's.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	18-12-18	ISSUED FOR APPROVAL	

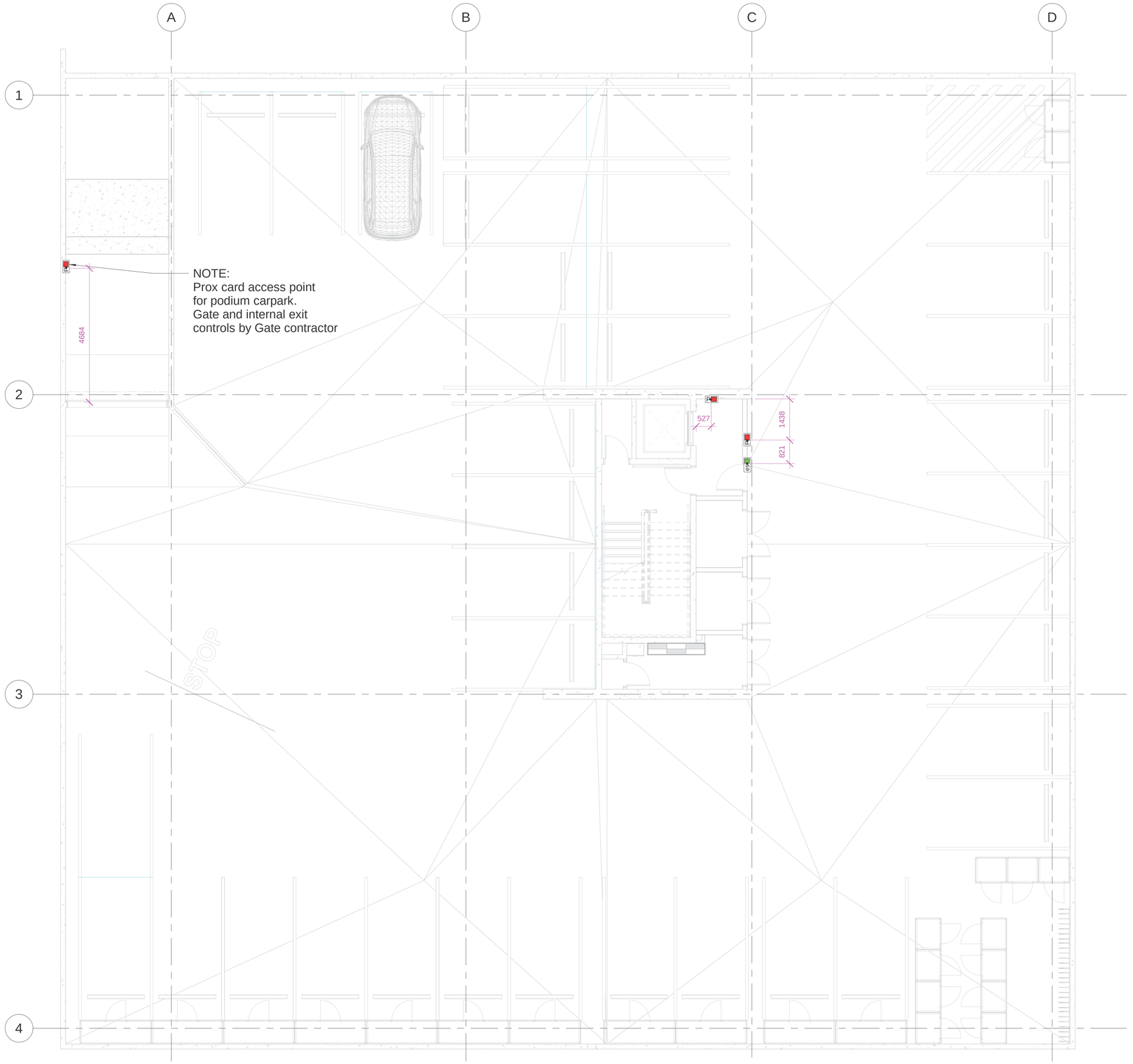
Scale	A1= 1 : 20
Date	18/12/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: TYPICAL DISTRIBUSTION ROOM LAYOUT DETAILS

Drawing number: E10

Issue: A



1 BASEMENT ACCESS CONTROL LAYOUT

1 : 75

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	18-12-18	BASEMENT SHOP DRAWING ADDED	

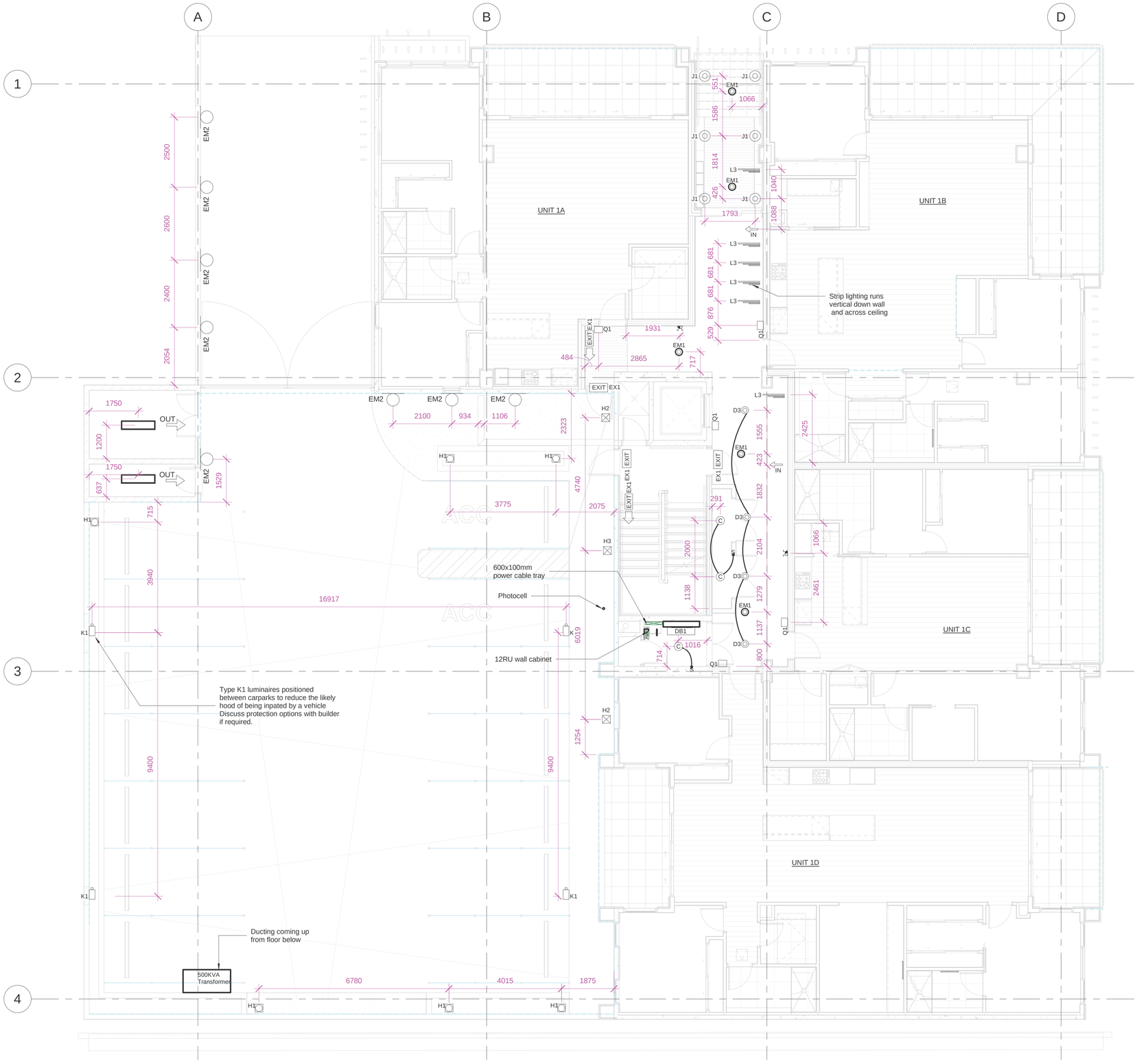
Scale	A1=1 : 75
Date	18/12/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: BASEMENT ACCESS CONTROL LAYOUT

Drawing number: EA00

Issue: A



1 LEVEL 1 COMMON AREA LIGHTING & POWER LAYOUT

1 : 75

Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	03-12-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL	
A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL	

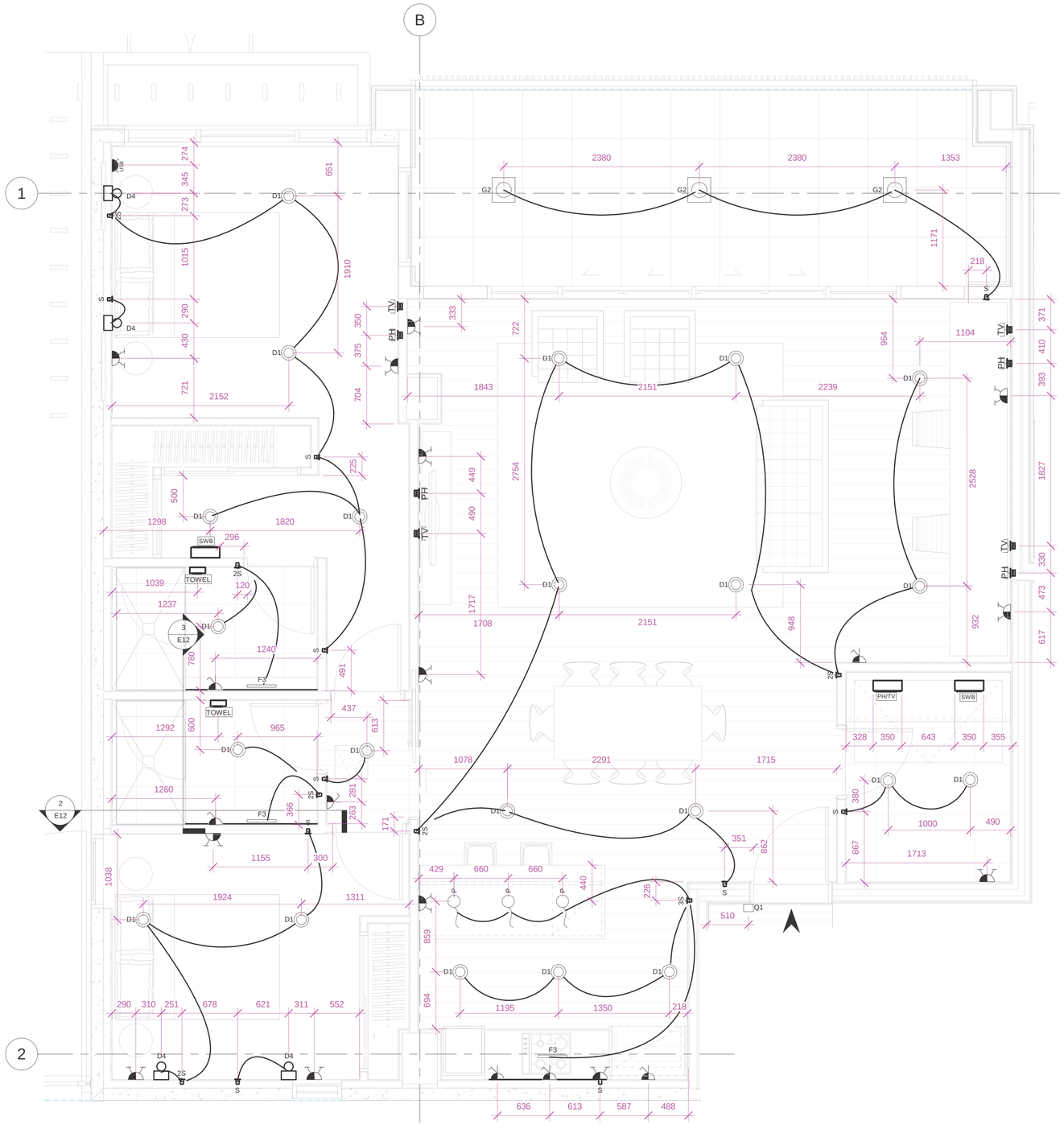
Scale	A1=1 : 75
Date	26/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: LEVEL 1 COMMON AREA LIGHTING & POWER LAYOUT

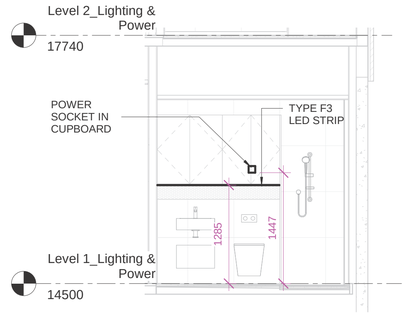
Drawing number: E04

Issue: B



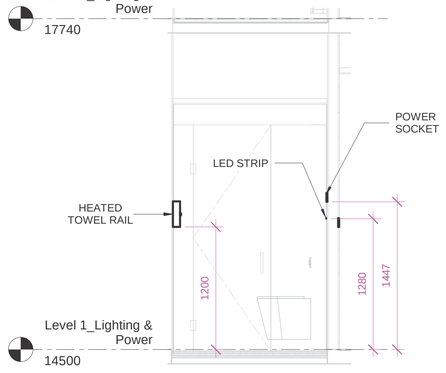
1 ENLARGE APARTMENT 1A LIGHTING & POWER LAYOUT

1 : 30



2 LEVEL 1 TYP. BATHROOM LIGHITNG SECTION 1

1 : 40



3 LEVEL 1 TYP. BATHROOM LIGHITNG SECTION 2

1 : 30

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	03-12-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL	
A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL	

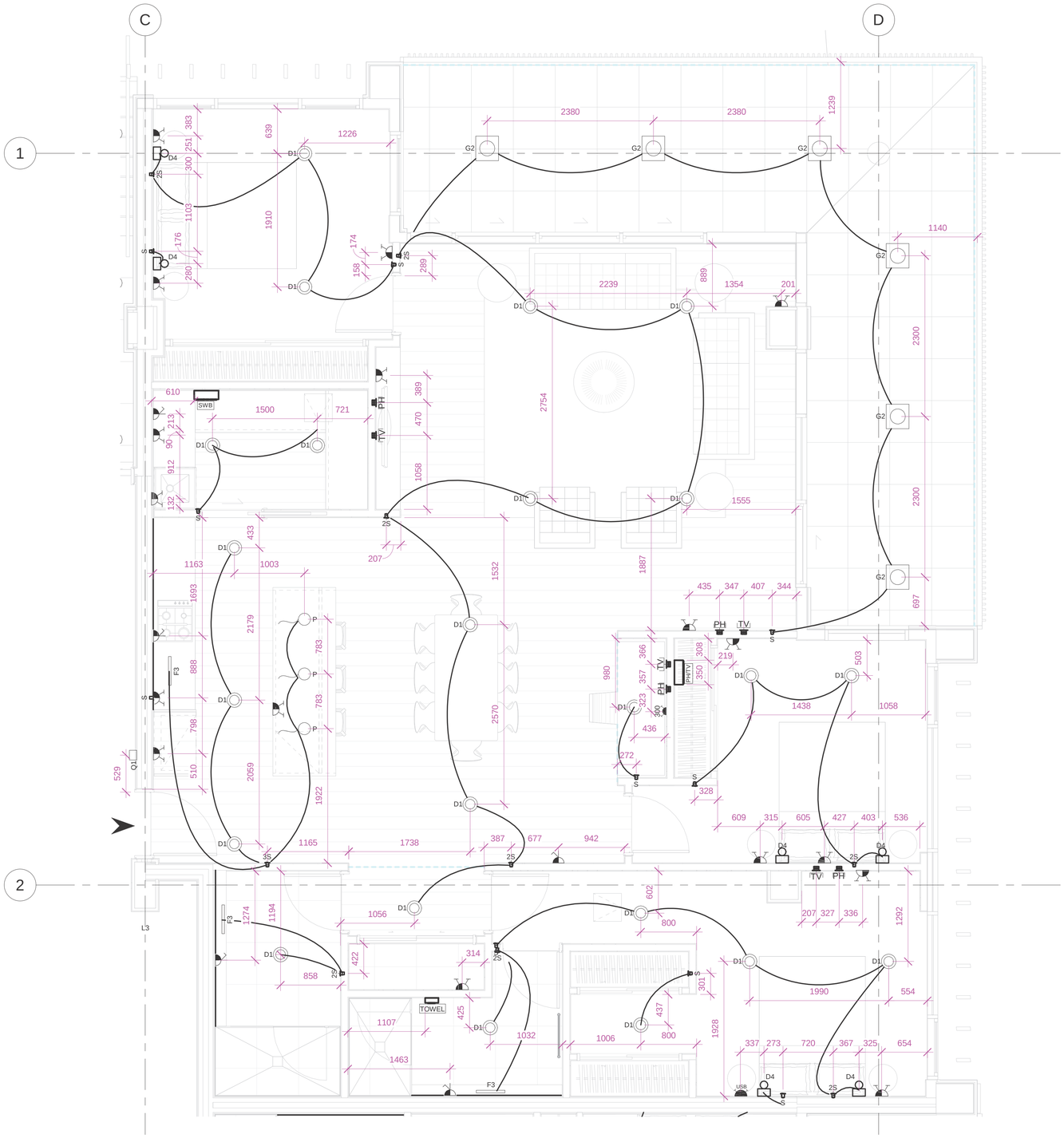
Scale	A1=As indicated
Date	26/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment, 8-10 Park Street

Job Title: ENLARGE APARTMENT 1A LIGHTING & POWER LAYOUT

Drawing number: E12

Issue: B



1 ENLARGE APARTMENT 1B LIGHTING & POWER LAYOUT

1 : 35

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	03-12-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL	
A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL	

SILICON Engineering Consultants Ltd

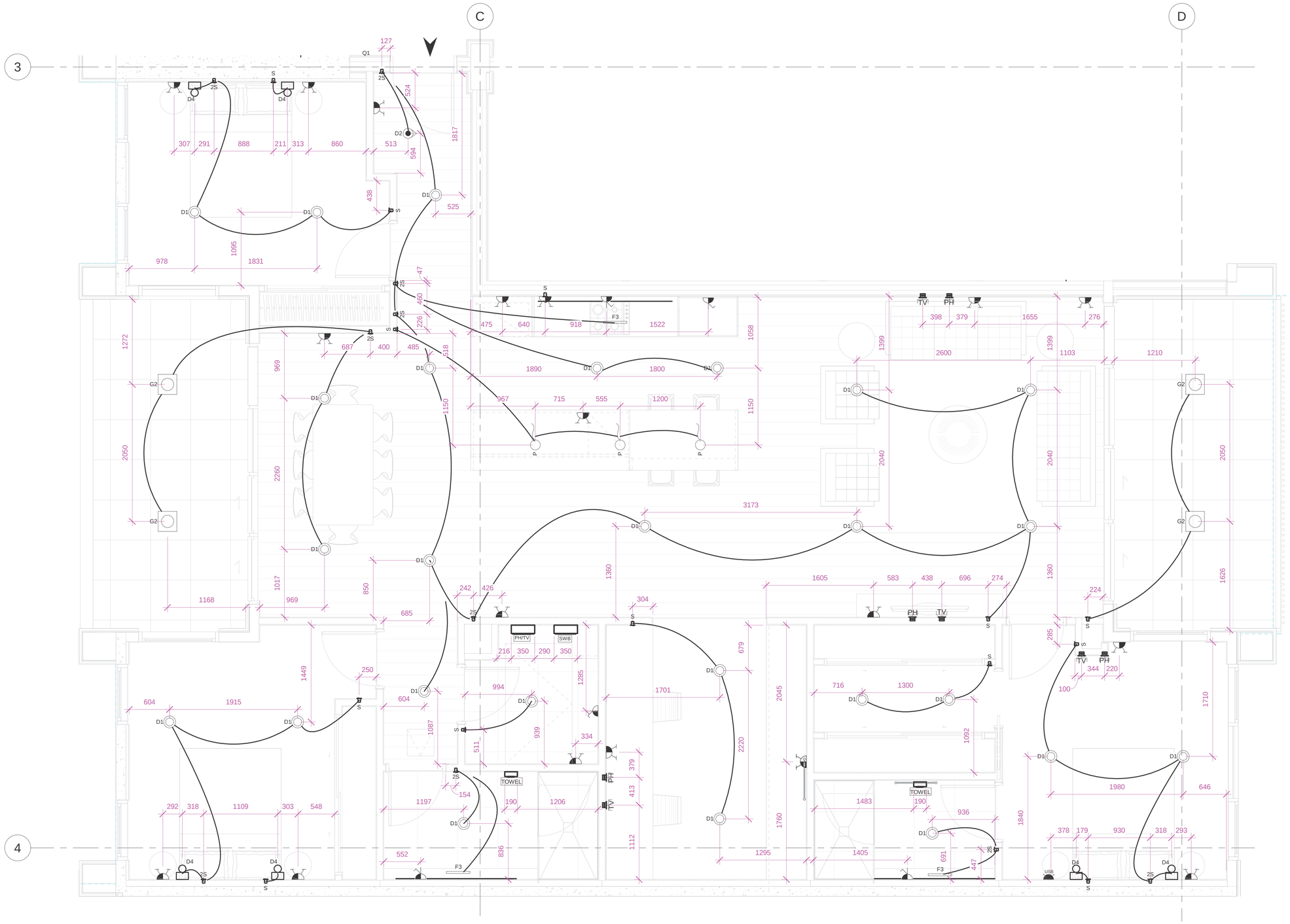
Scale	A1=1 : 35
Date	26/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: ENLARGE APARTMENT 1B LIGHTING & POWER LAYOUT

Drawing number: E13

Issue: B



1 ENLARGE APARTMENT 1D LIGHTING & POWER LAYOUT

1 : 30

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	03-12-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL	
A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1=1 : 30
Date	26/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

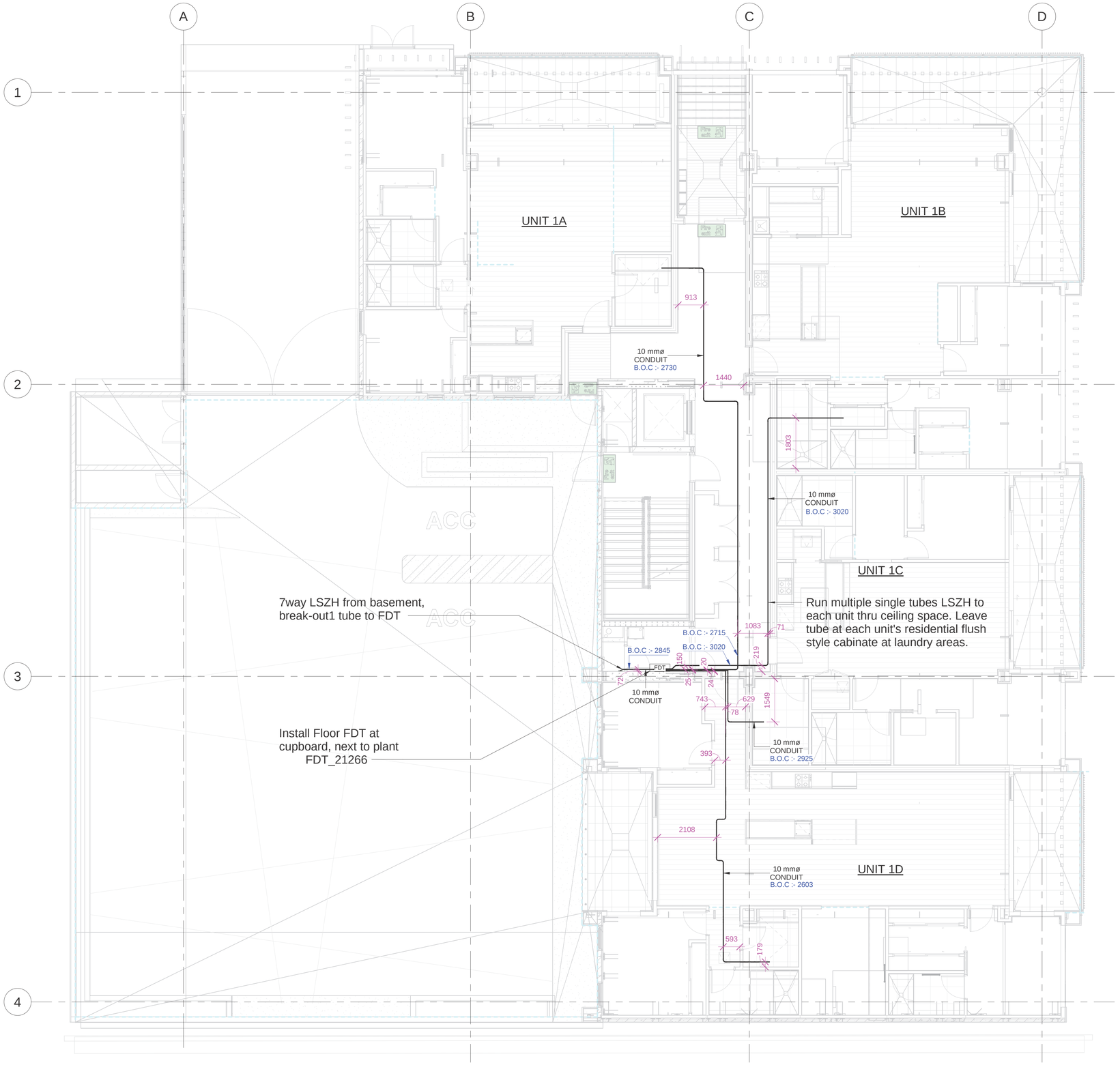
Job Name: Latitude Apartment
8-10 Park Street

Job Title: ENLARGE APARTMENT 1D LIGHTING & POWER LAYOUT

Drawing number: E15

Issue: B

Note: Please confirm demarcation points before installation of each unit LSZHs tube



1 LEVEL 1 ULTRAFAST FIBER LAYOUT
1 : 75

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	03-12-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL	
A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1=1 : 75
Date	26/11/18
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: LEVEL 1 ULTRAFAST FIBER LAYOUT

Drawing number: E41

Issue: B

LEGEND:-

TYPE	SYMBOL	DESCRIPTION
A	A	Bulkhead,wall mount, Robus Vega IP65
A2	A2	Bulkhead,wall mount, Robus Falcon IP65
B	B	Defender batten,2 x30w, IP65
C	C	Oyster dome LED,Selene 30w,IP54
D1	D1	Downlight 13w fixed, 950 lm, IP44
D2	D2	Downlight 7.5w Tilt, 575lm, IP20
D3	D3	Downlight 20w fixed, 1730lm, IP54
D4	D4	Wall spot, 10w, 730lm, IP20
F3	F3	LED strip,Kit and vanity overcupboards
G2	G2	EX Downlight 10w, 800lm, IP44, copper
H1	H1	Bollard, 800mm tall, 7w, 420lm, IP54
J1	J1	EX Downlight,Tilt IP54
K1	K1	Pendant, Kitchen island, type TBC
P	P	Carpark light,pole mounted,LED
Q1	Q1	Wall light, Apartment entry marker
	300	Double Power point 1200mm
		Double Power point 1200mm
		Single Power point 1200mm
	USB	Double Power with USB charger 1200mm
	PH TV	Power Phone Tv outlet 1200mm
	SWB	Distribution board,45 ways 1200mm
	PH/TV	Data & TV Comms board 1200mm
	TOWEL	Heated towel rail 1200mm
	F3	See detail Vanity LED strip, power point
Q1		Type Q1 light 1800mm height on the wall.
		Unit Entry Sign

TYPE	SYMBOL	DESCRIPTION
L3		Future strip lighting
DB	DB	Distribution Board 1,2,3,4 & 5
		EMERGENCY LIGHTING LUMINAIRES
EM2	EM2	Wall mounted bulkhead
BEM	B-EM	Under varanda
EM1	EM1	Flush downlight
EX1	EX1 EXIT	Exit sign
EX2	EX2 EXIT	Exit sign IP rated
EX3	EX3 EXIT	Exit sign flush base plate
		LIGHTING CONTROL
	IN	Motion sensor interior
	OUT	Motion sensor exterior
	S	Single Gang Socket
	2S	Double Gang Socket
	3S	Tripple Gang Socket
		GENERAL POWER OUTLETS
		Double Power point 1200mm
		Single Power point 1200mm
		ACCESS CONTROL
	SX	Access Control panel
	i	Aiphone unit video intercom station GT-1M3
	p	Proximity card reader
	es	Electric Strike
	er	EmRex Emergency EXIT
	IEX	Aiphone Entrance intercom station
	ex	Touch to Exit pad

GENERAL NOTES:

- All the shown lighting diamentions are subjected to change as per the actual installation during pre-wire stage.
- See Kitchen plan for outlet locations.
- All electrical work to comply with NZBC F7/AS1, AS/NZS 3000 and all relevent amendments.
- Ventilation & Smoke alarms by other trade.
- Intergrate Power / Data / Tv outlets into the same plate where possible.
- Run power supply to AC outdoor unit,one on each balcony, location TBC.
- For TV & PH sockets location will be as per the final architecture layout.
- All the shown lighting diamentions are subjected to change as per the actual installation during pre-wire stage.
- See Luminaire spec sheets for further product info.
- All landlord lighting automatically controlled with manual overide switch along side floor distribution board.
- Please confirm demarcation points before installtion of each unit LSZHs tube

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	03-12-18	ISSUED FOR APPROVAL	

Scale	A1= 1 : 50
Date	03/12/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: LEGEND

Drawing number: E01

Issue: A

1 LEVEL 2 COMMON AREA LIGHTING & POWER LAYOUT

1 : 75

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	03-12-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	
A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

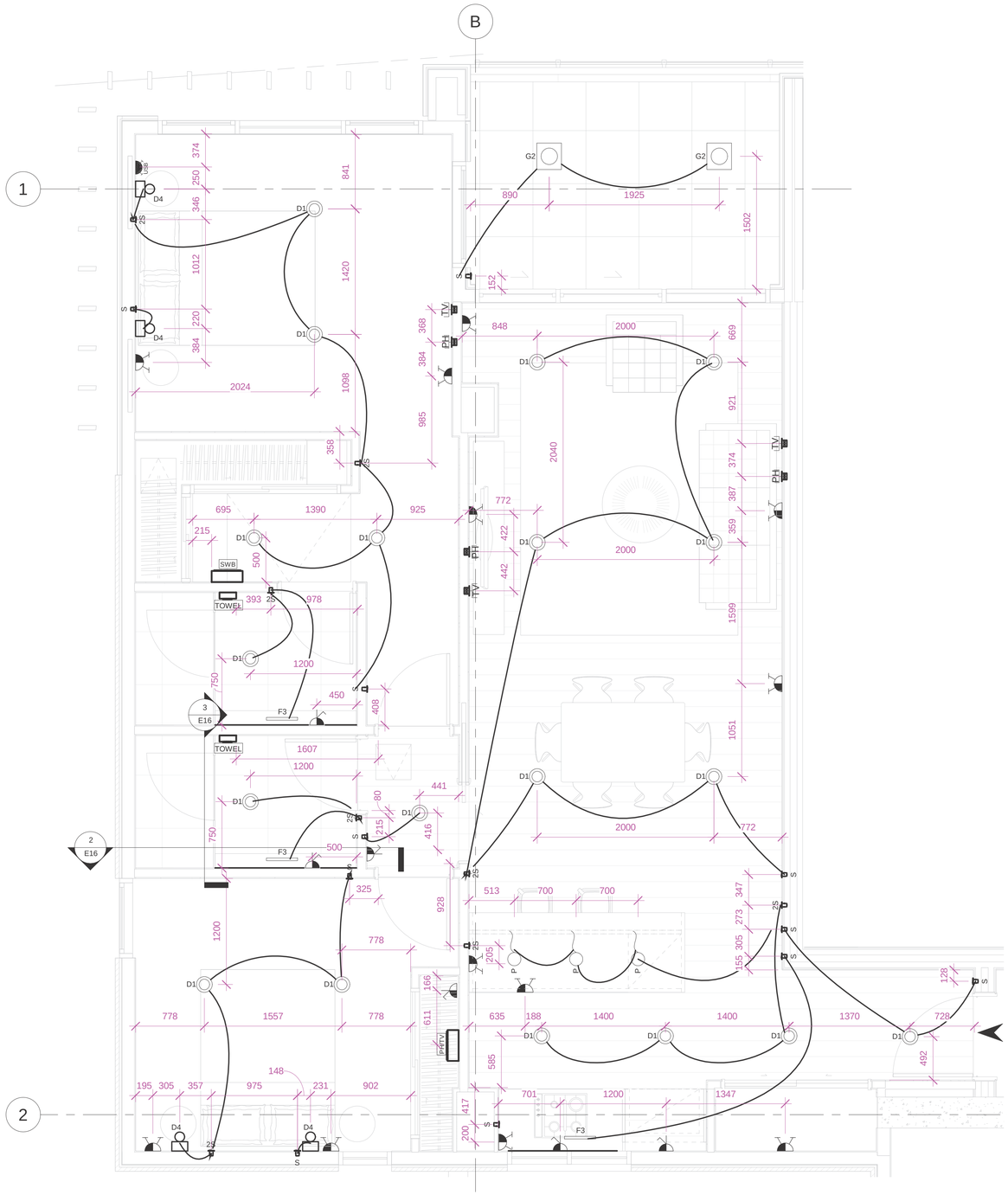
Scale	A1=1 : 75
Date	28/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: LEVEL 2 COMMON AREA LIGHTING & POWER LAYOUT

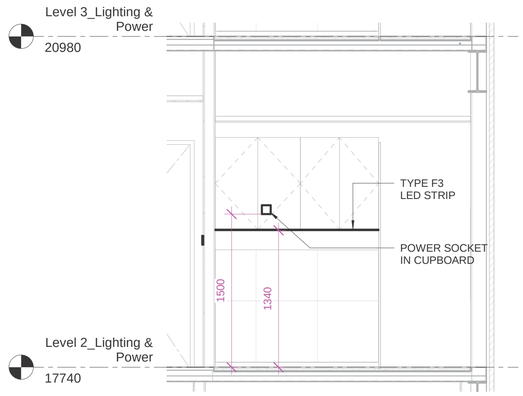
Drawing number: E05

Issue: B



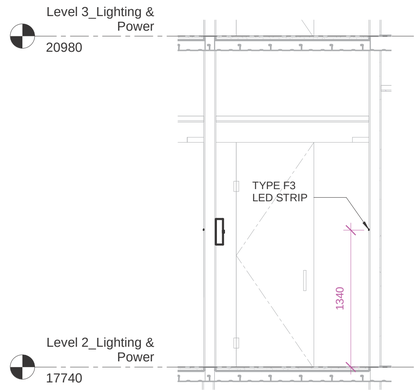
1 ENLARGE APARTMENT 2A LIGHTING & POWER LAYOUT

1 : 30



2 LEVEL 2 TYP. BATHROOM LIGHITNG SECTION 1

1 : 30



3 LEVEL 2 TYP. BATHROOM LIGHITNG SECTION 2

1 : 30

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	03-12-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	
A	29-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

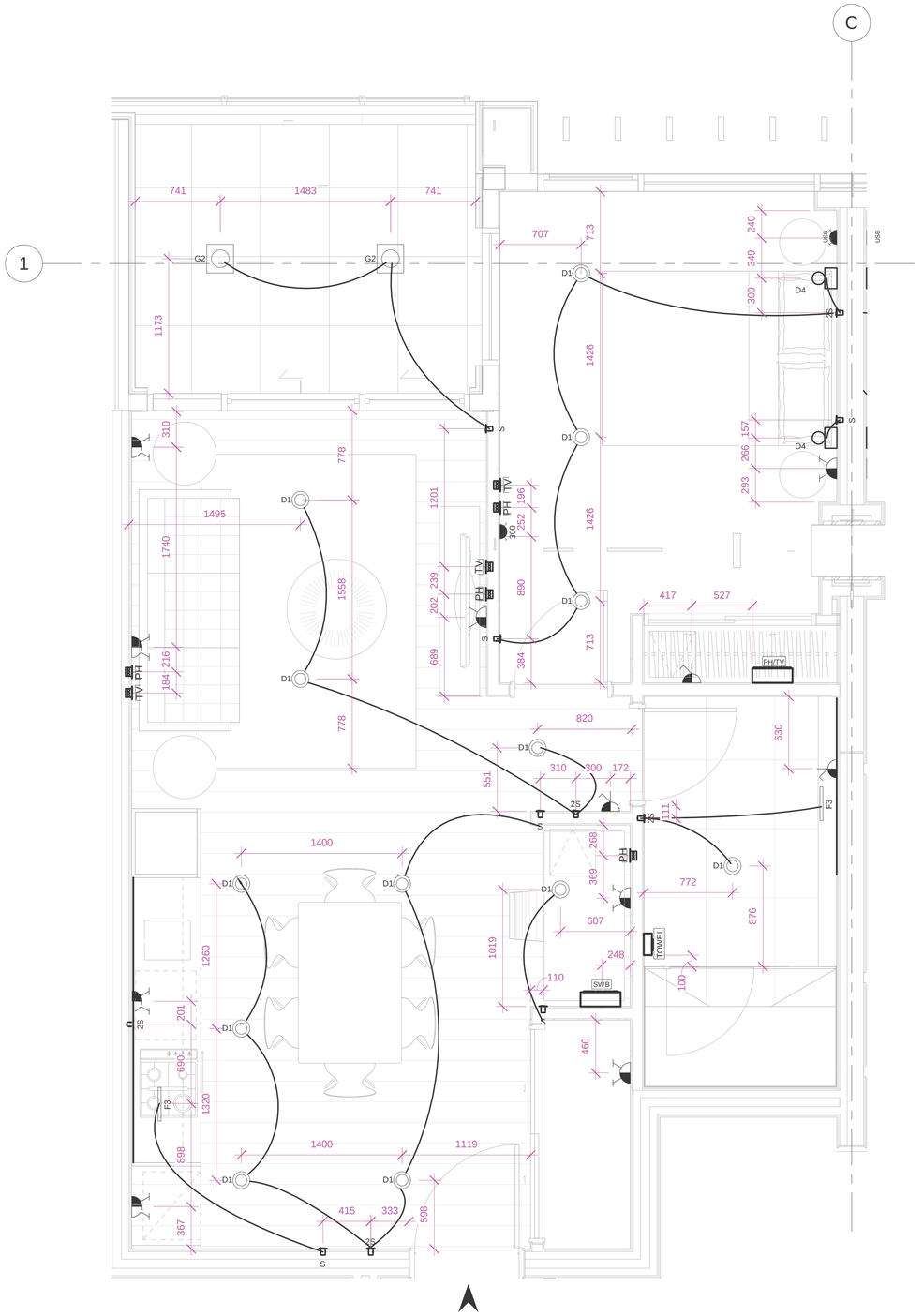
Scale	A1=1 : 30
Date	28/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: ENLARGE APARTMENT 2A LIGHTING & POWER LAYOUT

Drawing number: E16

Issue: B



1 ENLARGE APARTMENT 2B LIGHTING & POWER LAYOUT

1 : 25

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	03-12-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	
A	29-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

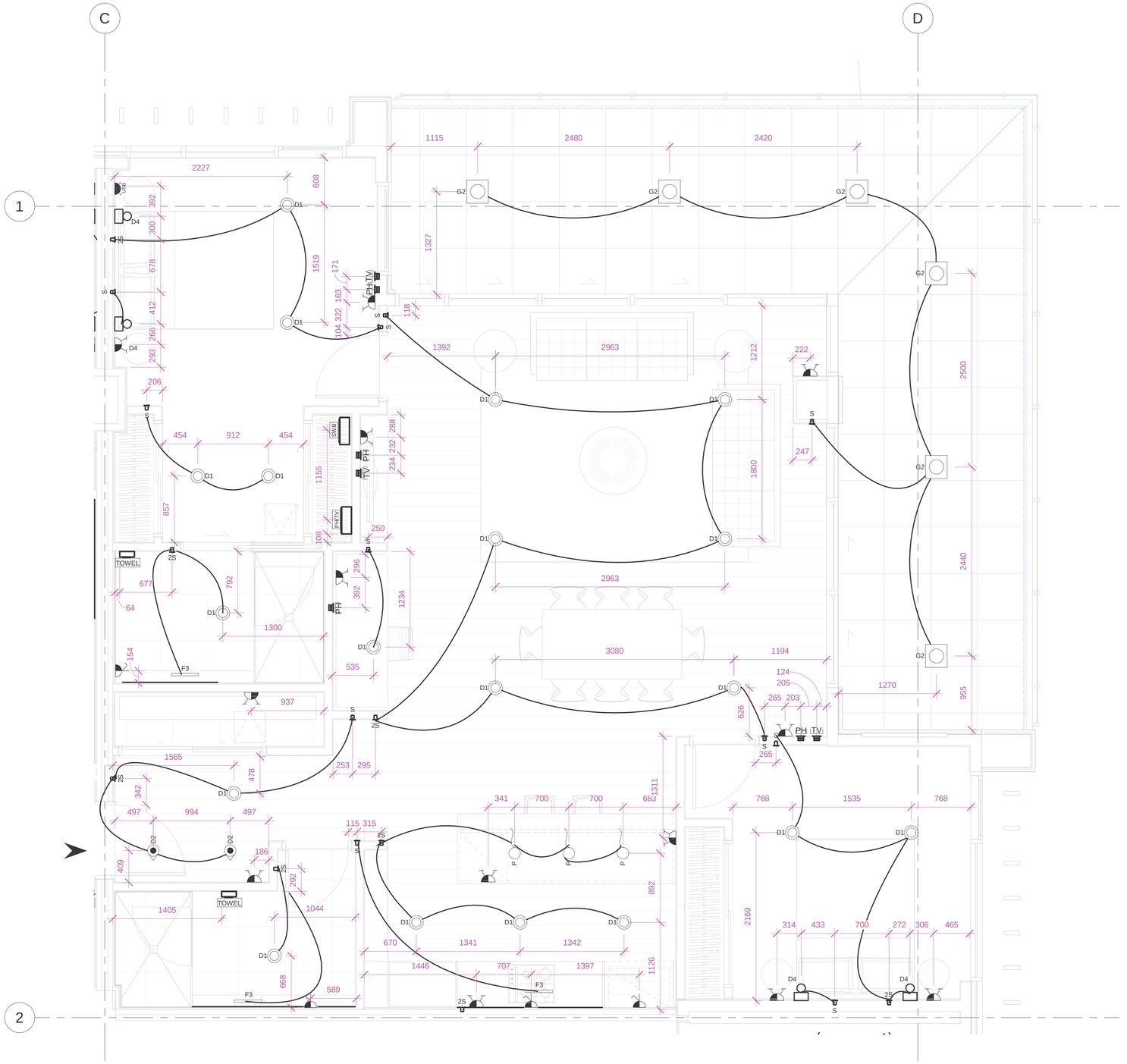
Scale	A1= 1 : 25
Date	28/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: ENLARGE APARTMENT 2B LIGHTING & POWER LAYOUT

Drawing number: E17

Issue: B



1 ENLARGE APARTMENT 2C LIGHTING & POWER LAYOUT

1 : 30

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	03-12-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	
A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

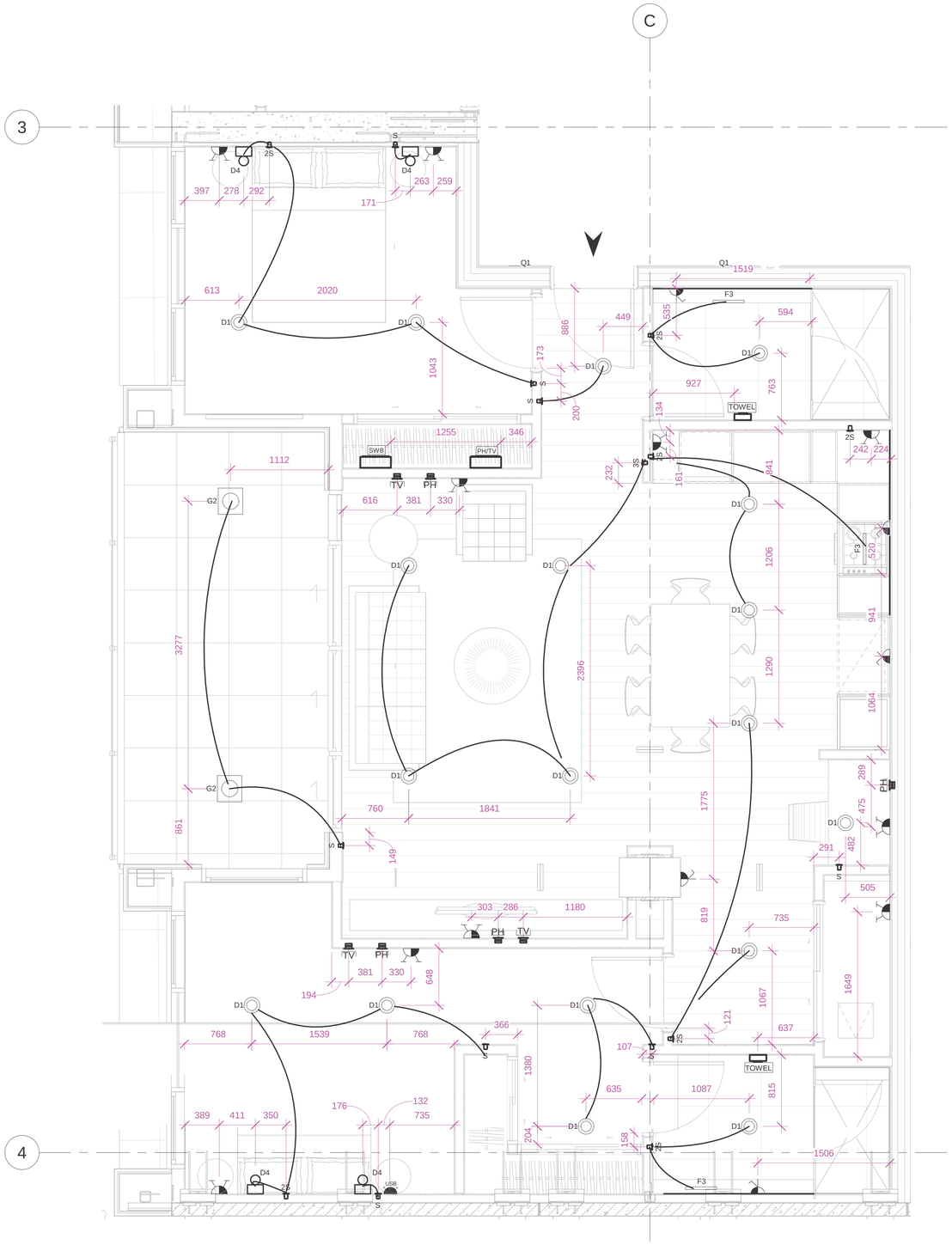
Scale	A1=1 : 30
Date	28/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: ENLARGE APARTMENT 2C LIGHTING & POWER LAYOUT

Drawing number: E18

Issue: B



1 ENLARGE APARTMENT 2F LIGHTING & POWER LAYOUT

1 : 30

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	03-12-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	
A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1=1 : 30
Date	28/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

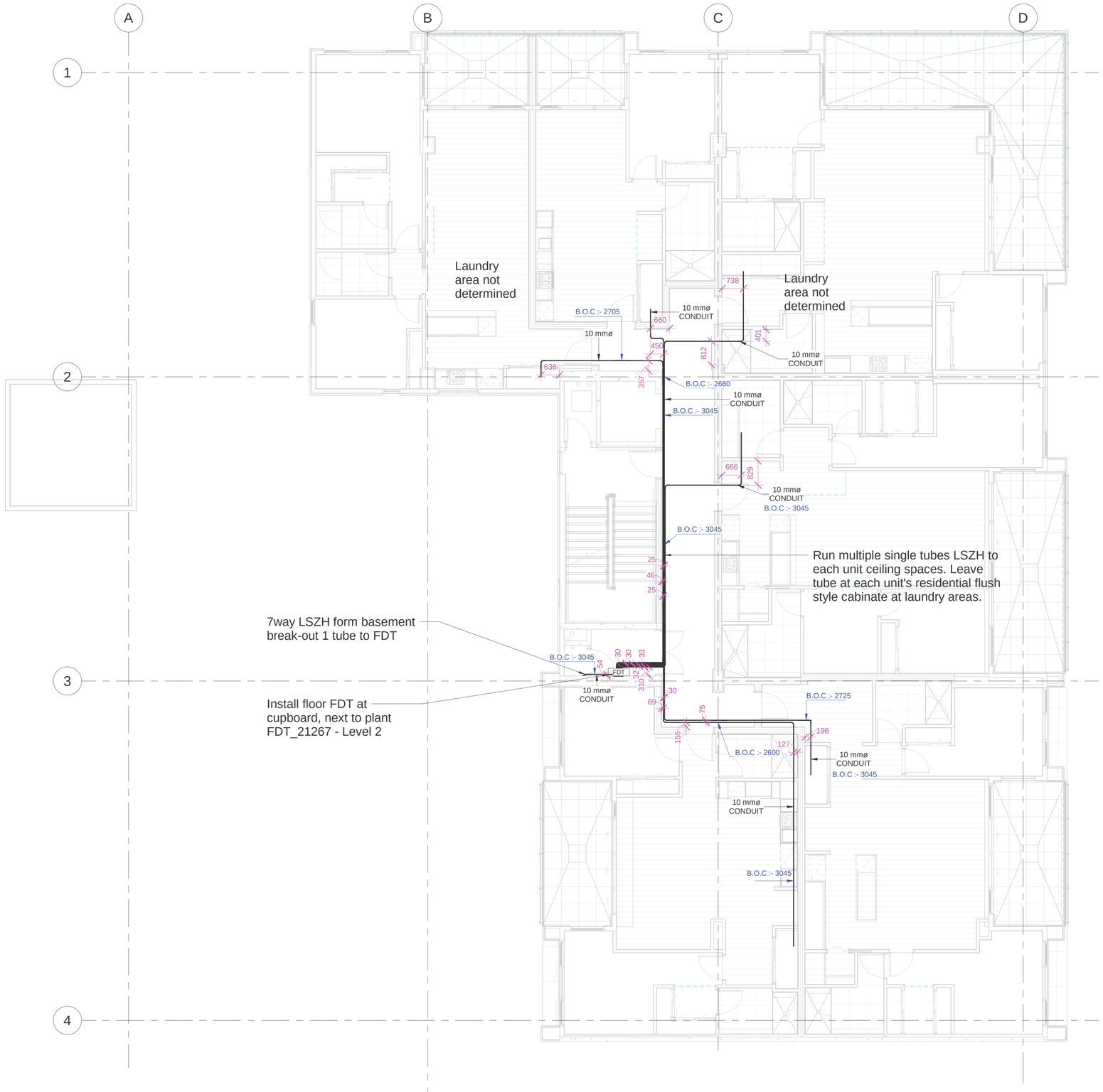
Job Name: Latitude Apartment
8-10 Park Street

Job Title: ENLARGE APARTMENT 2F LIGHTING & POWER LAYOUT

Drawing number: E21

Issue: B

Note: Please confirm demarcation points before installtion of each unit LSZHs tube



1 LEVEL 2 ULTRAFAST FIBER LAYOUT

1 : 75

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	03-12-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	
A	09-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

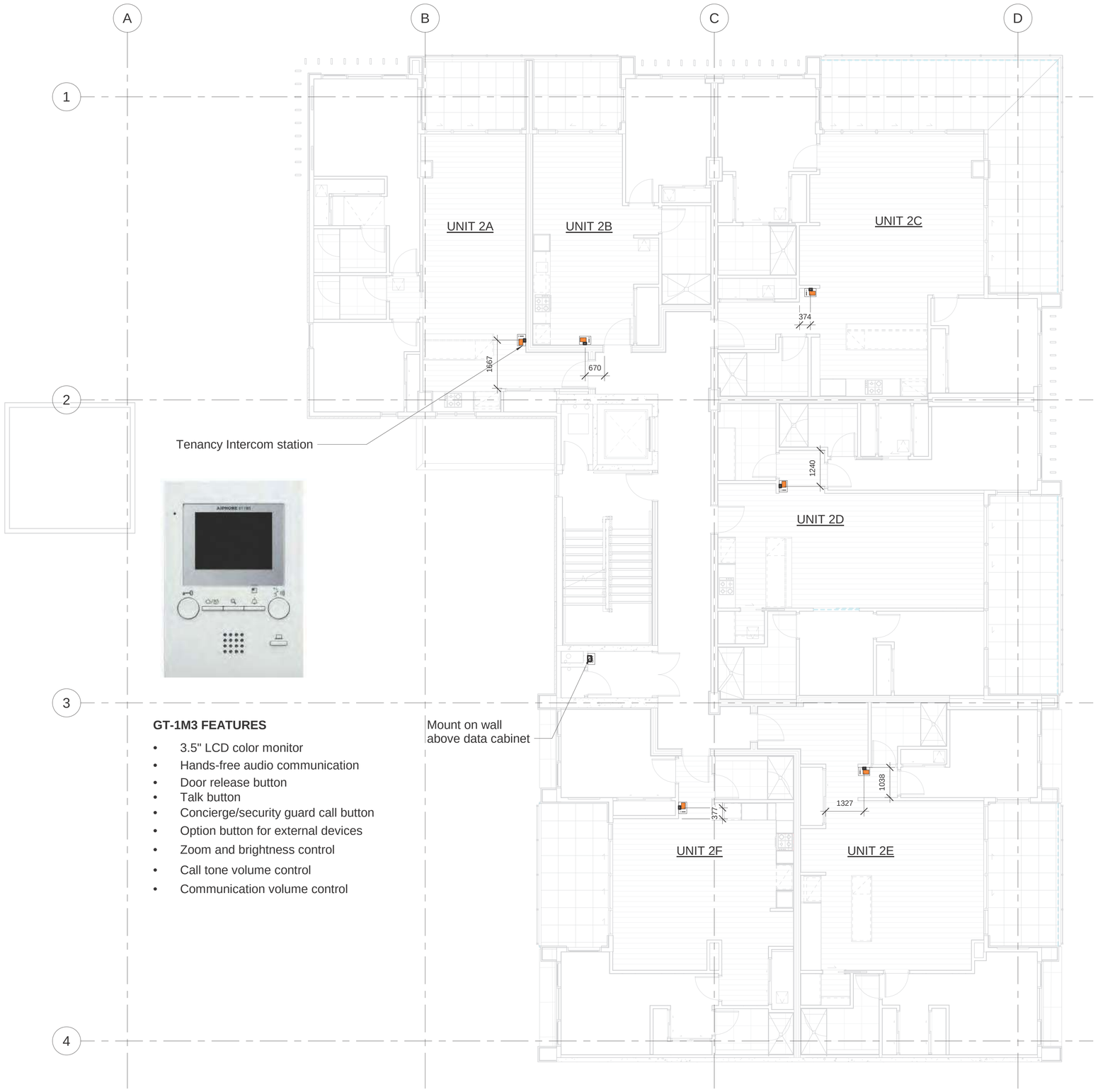
Scale	A1=1 : 75
Date	28/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: LEVEL 2 ULTRAFAST FIBER LAYOUT

Drawing number: E42

Issue: B



GT-1M3 FEATURES

- 3.5" LCD color monitor
- Hands-free audio communication
- Door release button
- Talk button
- Concierge/security guard call button
- Option button for external devices
- Zoom and brightness control
- Call tone volume control
- Communication volume control

1 LEVEL 2 ACCESS CONTROL LAYOUT

1 : 75

Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	03-12-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	
A	29-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1=1 : 75
Date	28/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: LEVEL 2 ACCESS CONTROL LAYOUT

Drawing number: EA02

Issue: B

1 LEVEL 3 COMMON AREA LIGHTING & POWER LAYOUT

1 : 75

ENERGY SERVICES

TYPE	SYMBOL	DESCRIPTION
A	A	Bulkhead,wall mount, Robus Vega IP65
A2	A2	Bulkhead,wall mount, Robus Falcon IP65
B	B	Defender batten,2 x30w, IP65
C	C	Oyster dome LED,Selene 30w,IP54
D1	D1	Downlight 13w fixed, 950 lm, IP44
D2	D2	Downlight 7.5w Tilt, 575lm, IP20
D3	D3	Downlight 20w fixed, 1730lm, IP54
D4	D4	Wall spot, 10w, 730lm, IP20
F3	F3	LED strip,Kit and vanity overcupboards
G2	G2	EX Downlight 10w, 800lm, IP44, copper
H1	H1	Bollard, 800mm tall, 7w, 420lm, IP54
J1	J1	EX Downlight,Tilt IP54
K1	K1	Carpark light,pole mounted,LED
P	P	Pendant, Kitchen island, type TBC
Q1	Q1	Wall light, Apartment entry marker
		Emergency Lighting Luminaires
EM2	EM2	Wall mounted bulkhead
BEM	B-EM	Under varanda
EM1	EM1	Flush downlight
EX1	EX1 EXIT	Exit sign
EX2	EX2 EXIT	Exit sign IP rated
EX3	EX3 EXIT	Exit sign flush base plate
		Lighting control
	IN	Motion sensor interior
	OUT	Motion sensor exterior
	PC	Photo cell
		General power outlets
		Double Power point 1200mm
		Single Power point 1200mm

NOTES:

- All the shown lighting diamentions are subjected to change as per the actual installation during pre-wire stage.
- See Luminaire spec sheets for further product info.
- All landlord lighting automatically controlled with manual overide switch along side floor distribution board.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL	

Scale	A1=As indicated
Date	30/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

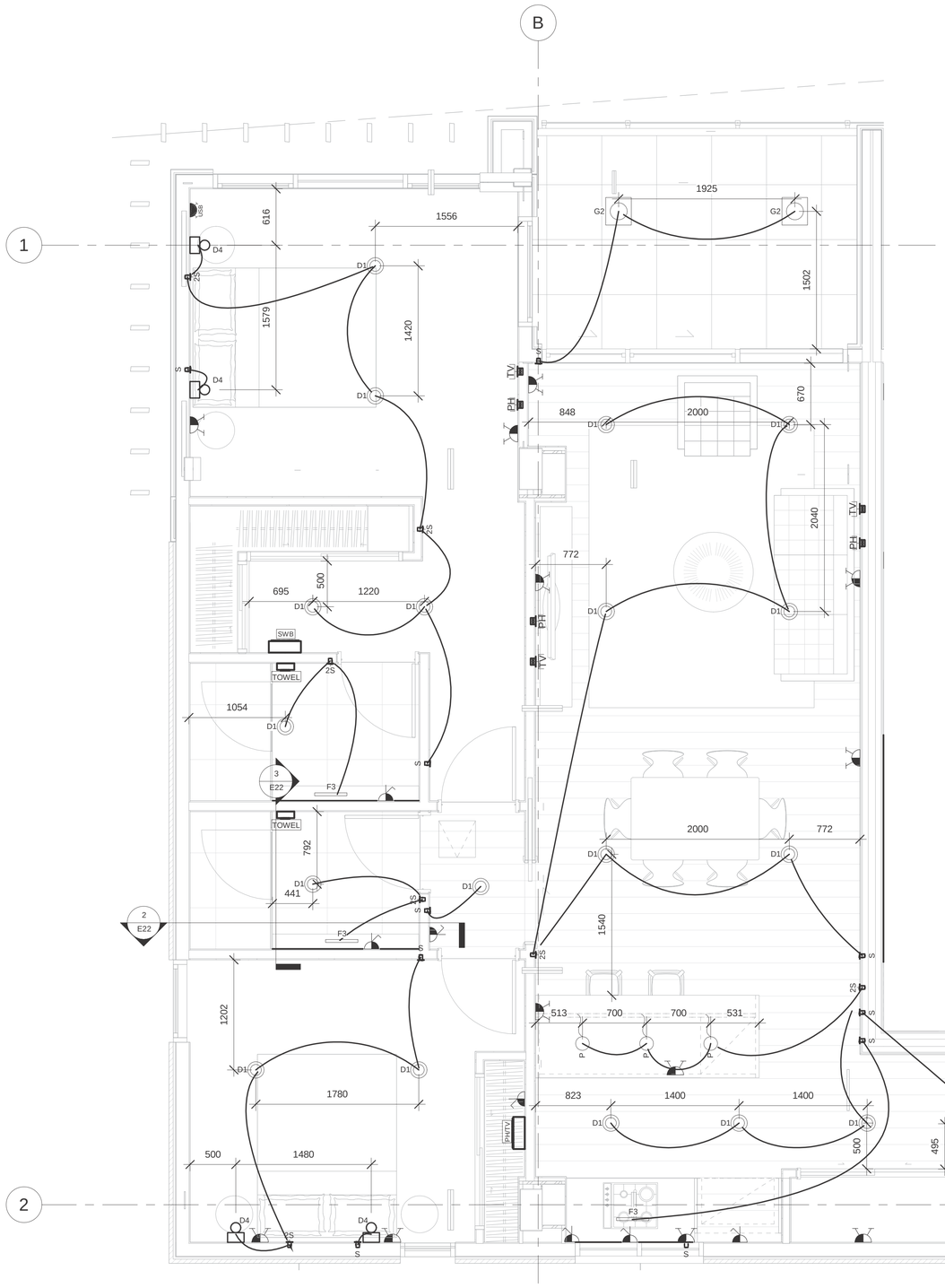
Job Name: Latitude Apartment
8-10 Park Street

Job Title: LEVEL 3 COMMON AREA LIGHTING & POWER LAYOUT

Drawing number: E06

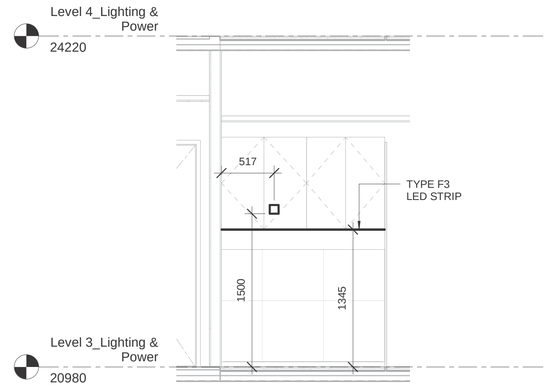
ELECTRICAL LAYOUT DRAWING

Issue: A



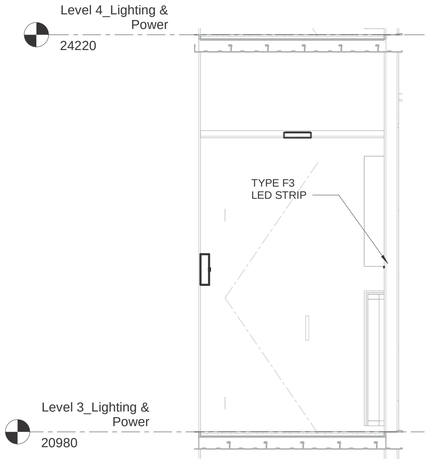
1 ENLARGE APPARTMENT 3A LIGHTING & POWER LAYOUT

1 : 30



2 LEVEL 3 TYP. BATHROOM LIGHITNG SECTION 1

1 : 30



3 LEVEL 3 TYP. BATHROOM LIGHITNG SECTION 2

1 : 25

TYPE	SYMBOL	DESCRIPTION
A	A	Bulkhead,wall mount, Robus Vega IP65
A2	A2	Bulkhead,wall mount, Robus Falcon IP65
B	B	Defender batten,2 x30w, IP65
C	C	Oyster dome LED,Selene 30w,IP54
D1	D1	Downlight 13w fixed, 950 lm, IP44
D2	D2	Downlight 7.5w Tilt, 575lm, IP20
D3	D3	Downlight 20w fixed, 1730lm, IP54
D4	D4	Wall spot, 10w, 730lm, IP20
F3	F3	LED strip,Kit and vanity overcupboards
G2	G2	EX Downlight 10w, 800lm, IP44, copper
H1	H1	Bollard, 800mm tall, 7w, 420lm, IP54
J1	J1	EX Downlight,Tilt IP54
K1	K1	Carpark light,pole mounted,LED
P	P	Pendant, Kitchen island, type TBC
Q1	Q1	Wall light, Apartment entry marker

Symbols not shown to scale

300	Double Power point 1200mm
S	Double Power point 1200mm
S	Single Power point 1200mm
USB	Double Power with USB charger 1200mm
S PH TV	Power Phone Tv outlet 1200mm
SWB	Distribution board,45 ways 1200mm
PH/TV	Data & TV Comms board 1200mm
TOWEL	Heated towel rail 1200mm
F3	See detail Vanity LED strip, power point

NOTES:

- All the shown lighting diamentions are subjected to change as per the actual installation during pre-wire stage.
- See Kitchen plan for outlet locations.
- All electrical work to comply with NZBC F7/AS1, AS/NZS 3000 and all relevent amendments.
- Ventilation & Smoke alarms by other trade.
- Intergrate Power / Data / Tv outlets into the same plate where possible.
- Run power supply to AC outdoor unit,one on each balcony, location TBC.
- For TV & PH sockets location will be as per the final architecture layout.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL	

Scale	A1=As indicated
Date	30/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

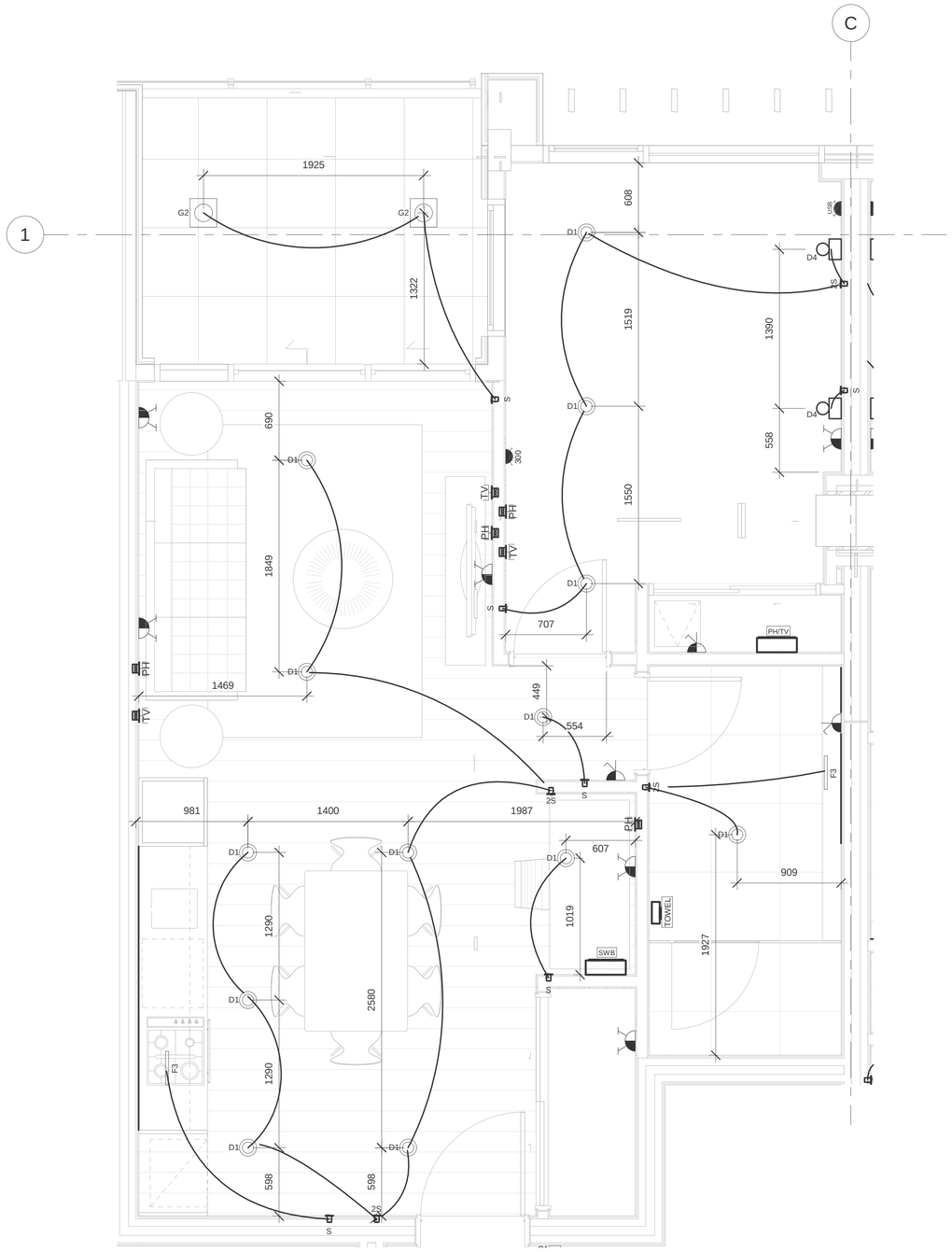
Job Name: Latitude Apartment
8-10 Park Street

Job Title: ENLARGE APPARTMENT 3A LIGHTING & POWER LAYOUT

Drawing number: E22

ELECTRICAL LAYOUT DRAWING

Issue: A



1 ENLARGE APPARTMENT 3B LIGHTING & POWER LAYOUT

1 : 25

ENERGY SERVICES

TYPE	SYMBOL	DESCRIPTION
A	A	Bulkhead,wall mount, Robus Vega IP65
A2	A2	Bulkhead,wall mount, Robus Falcon IP65
B	B	Defender batten,2 x30w, IP65
C	C	Oyster dome LED,Selene 30w,IP54
D1	D1	Downlight 13w fixed, 950 lm, IP44
D2	D2	Downlight 7.5w Tilt, 575lm, IP20
D3	D3	Downlight 20w fixed, 1730lm, IP54
D4	D4	Wall spot, 10w, 730lm, IP20
F3	F3	LED strip,Kit and vanity overcupboards
G2	G2	EX Downlight 10w, 800lm, IP44, copper
H1	H1	Bollard, 800mm tall, 7w, 420lm, IP54
J1	J1	EX Downlight,Tilt IP54
K1	K1	Carpark light,pole mounted,LED
P	P	Pendant, Kitchen island, type TBC
Q1	Q1	Wall light, Apartment entry marker

Symbols not shown to scale

300	Double Power point 1200mm
S	Double Power point 1200mm
	Single Power point 1200mm
USB	Double Power with USB charger 1200mm
PH TV	Power Phone Tv outlet 1200mm
SWB	Distribution board,45 ways 1200mm
PH/TV	Data & TV Comms board 1200mm
TOWEL	Heated towel rail 1200mm
F3	See detail Vanity LED strip, power point

NOTES:

- All the shown lighting diamentions are subjected to change as per the actual installation during pre-wire stage.
- See Kitchen plan for outlet locations.
- All electrical work to comply with NZBC F7/AS1, AS/NZS 3000 and all relevent amendments.
- Ventilation & Smoke alarms by other trade.
- Intergrate Power / Data / Tv outlets into the same plate where possible.
- Run power supply to AC outdoor unit,one on each balcony, location TBC.
- For TV & PH sockets location will be as per the final architecture layout.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL	

Scale	A1=As indicated
Date	30/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

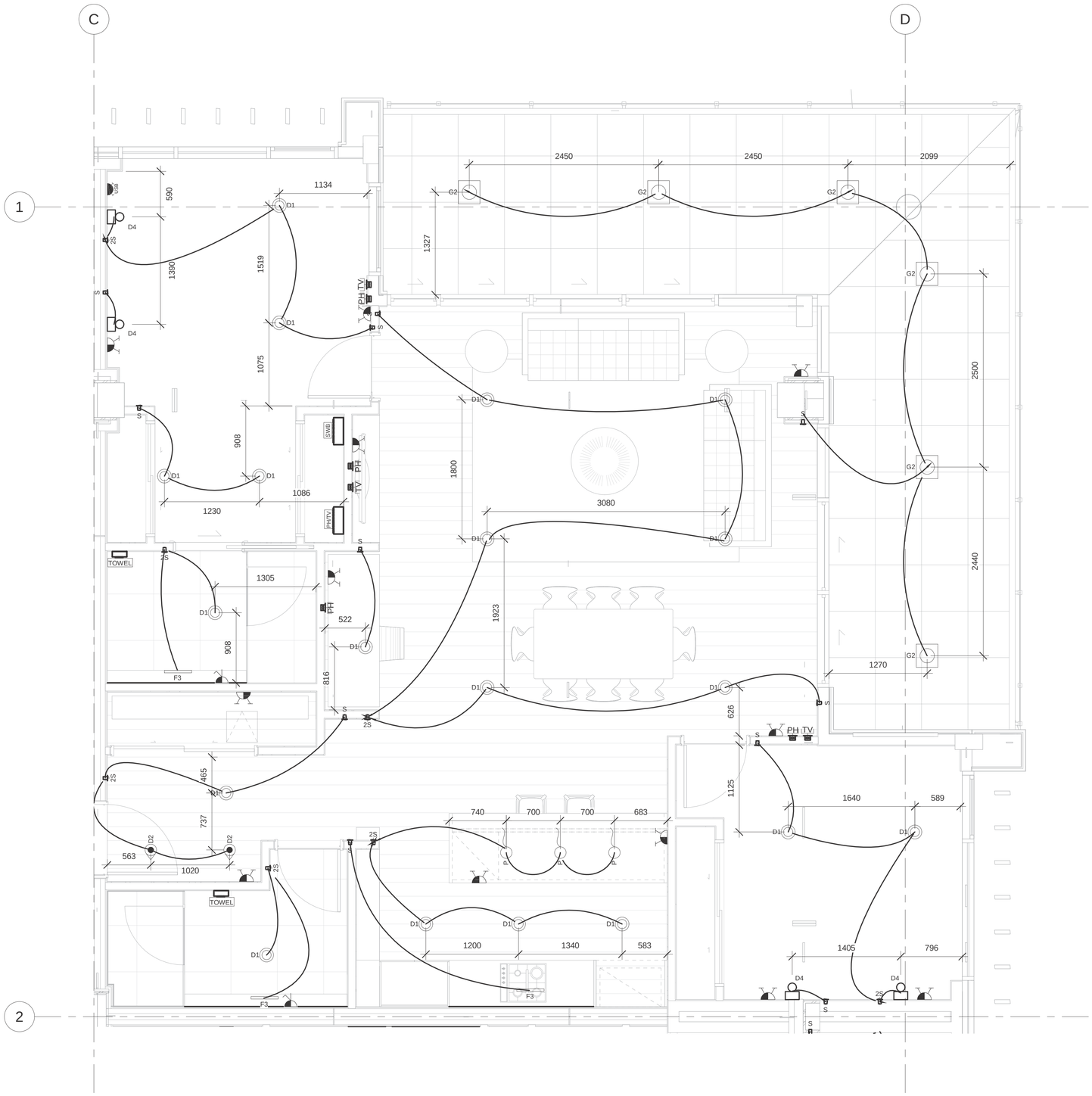
Job Name: Latitude Apartment
8-10 Park Street

Job Title: ENLARGE APPARTMENT 3B LIGHTING & POWER LAYOUT

Drawing number: E23

ELECTRICAL LAYOUT DRAWING

Issue: A



1 ENLARGE APPARTMENT 3C LIGHTING & POWER LAYOUT

1 : 30

TYPE	SYMBOL	DESCRIPTION
A	A	Bulkhead,wall mount, Robus Vega IP65
A2	A2	Bulkhead,wall mount, Robus Falcon IP65
B	B	Defender batten,2 x30w, IP65
C	C	Oyster dome LED,Selene 30w,IP54
D1	D1	Downlight 13w fixed, 950 lm, IP44
D2	D2	Downlight 7.5w Tilt, 575lm, IP20
D3	D3	Downlight 20w fixed, 1730lm, IP54
D4	D4	Wall spot, 10w, 730lm, IP20
F3	F3	LED strip,Kit and vanity overcupboards
G2	G2	EX Downlight 10w, 800lm, IP44, copper
H1	H1	Bollard, 800mm tall, 7w, 420lm, IP54
J1	J1	EX Downlight,Tilt IP54
K1	K1	Carpark light,pole mounted,LED
P	P	Pendant, Kitchen island, type TBC
Q1	Q1	Wall light, Apartment entry marker

Symbols not shown to scale

- Double Power point 1200mm
- Double Power point 1200mm
- Single Power point 1200mm
- Double Power with USB charger 1200mm
- Power Phone Tv outlet 1200mm
- Distribution board,45 ways 1200mm
- Data & TV Comms board 1200mm
- Heated towel rail 1200mm
- See detail — Vanity LED strip, power point

NOTES:

- All the shown lighting diamentions are subjected to change as per the actual installation during pre-wire stage.
- See Kitchen plan for outlet locations.
- All electrical work to comply with NZBC F7/AS1, AS/NZS 3000 and all relevent amendments.
- Ventilation & Smoke alarms by other trade.
- Intergrate Power / Data / Tv outlets into the same plate where possible.
- Run power supply to AC outdoor unit,one on each balcony, location TBC.
- For TV & PH sockets location will be as per the final architecture layout.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL	

Scale	A1=As indicated
Date	30/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

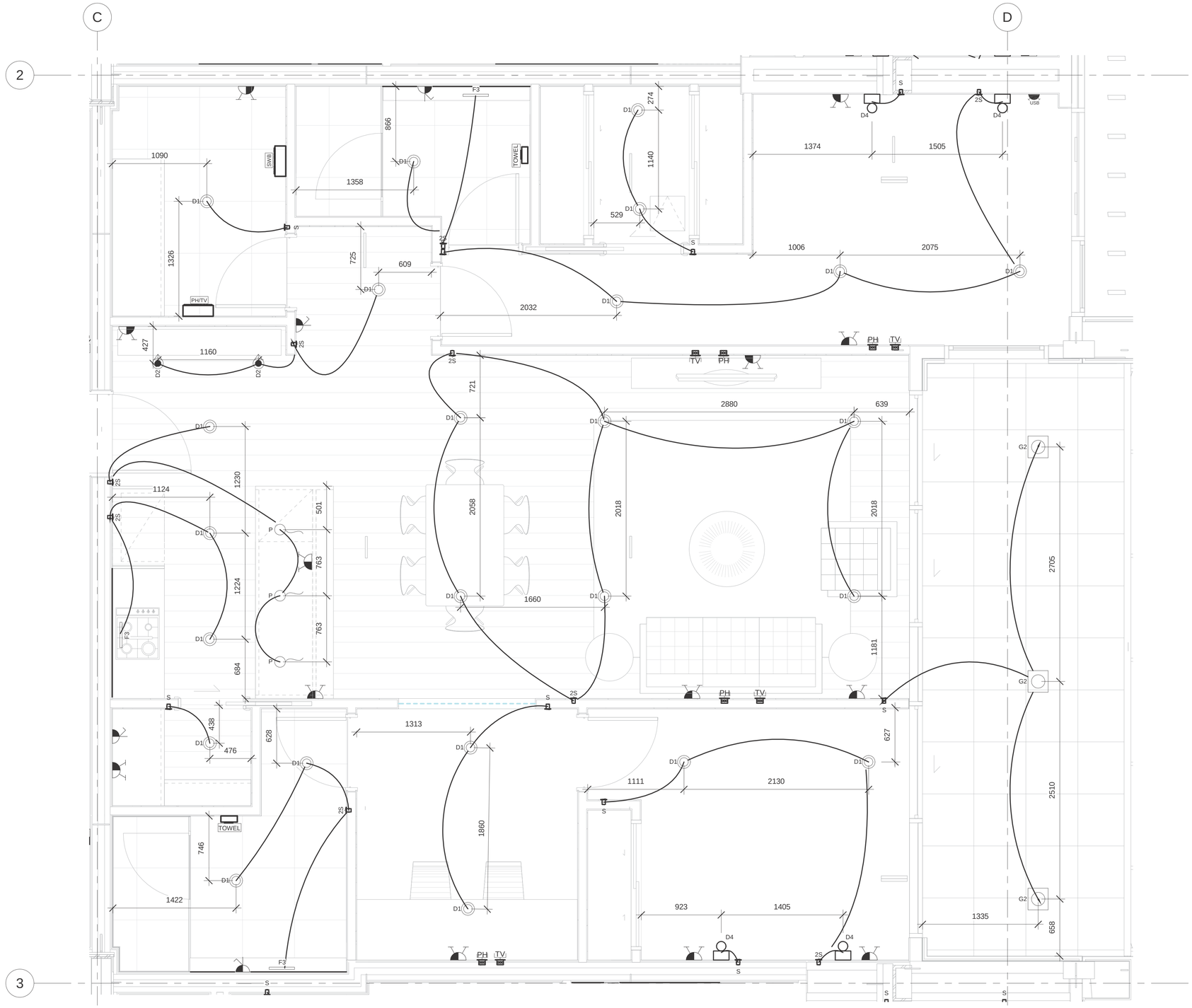
Job Name: Latitude Apartment, 8-10 Park Street

Job Title: ENLARGE APPARTMENT 3C LIGHTING & POWER LAYOUT

Drawing number: E24

ELECTRICAL LAYOUT DRAWING

Issue: A



1 ENLARGE APPARTMENT 3D LIGHTING & POWER LAYOUT

1 :25

ENERGY SERVICES

TYPE	SYMBOL	DESCRIPTION
A	A	Bulkhead,wall mount, Robus Vega IP65
A2	A2	Bulkhead,wall mount, Robus Falcon IP65
B	B	Defender batten,2 x30w, IP65
C	C	Oyster dome LED,Selene 30w,IP54
D1	D1	Downlight 13w fixed, 950 lm, IP44
D2	D2	Downlight 7.5w Tilt, 575lm, IP20
D3	D3	Downlight 20w fixed, 1730lm, IP54
D4	D4	Wall spot, 10w, 730lm, IP20
F3	F3	LED strip,Kit and vanity overcupboards
G2	G2	EX Downlight 10w, 800lm, IP44, copper
H1	H1	Bollard, 800mm tall, 7w, 420lm, IP54
J1	J1	EX Downlight,Tilt IP54
K1	K1	Carpark light,pole mounted,LED
P	P	Pendant, Kitchen island, type TBC
Q1	Q1	Wall light, Apartment entry marker

Symbols not shown to scale

300	Double Power point 1200mm
	Double Power point 1200mm
	Single Power point 1200mm
USB	Double Power with USB charger 1200mm
PH TV	Power Phone Tv outlet 1200mm
SWB	Distribution board,45 ways 1200mm
PH/TV	Data & TV Comms board 1200mm
TOWEL	Heated towel rail 1200mm
F3	See detail Vanity LED strip, power point

NOTES:

- All the shown lighting diamentions are subjected to change as per the actual installation during pre-wire stage.
- See Kitchen plan for outlet locations.
- All electrical work to comply with NZBC F7/AS1, AS/NZS 3000 and all relevent amendments.
- Ventilation & Smoke alarms by other trade.
- Intergrate Power / Data / Tv outlets into the same plate where possible.
- Run power supply to AC outdoor unit,one on each balcony, location TBC.
- For TV & PH sockets location will be as per the final architecture layout.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL	

Scale	A1=As indicated
Date	30/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

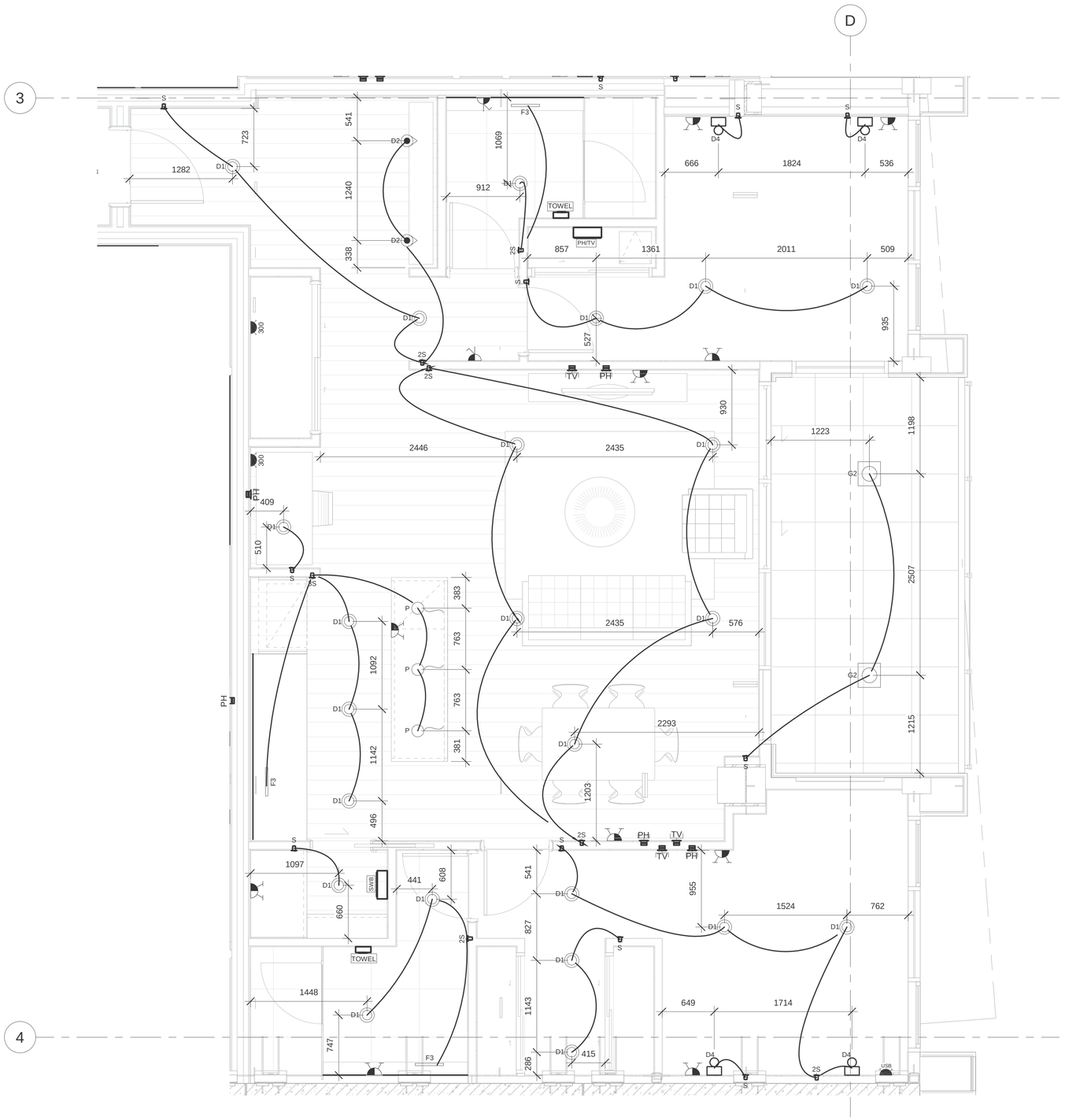
Job Name: Latitude Apartment, 8-10 Park Street

Job Title: ENLARGE APPARTMENT 3D LIGHTING & POWER LAYOUT

Drawing number: E25

ELECTRICAL LAYOUT DRAWING

Issue: A



1 ENLARGE APPARTMENT 3E LIGHTING & POWER LAYOUT

1 : 30

ENERGY SERVICES

TYPE	SYMBOL	DESCRIPTION
A	A	Bulkhead,wall mount, Robus Vega IP65
A2	A2	Bulkhead,wall mount, Robus Falcon IP65
B	B	Defender batten,2 x30w, IP65
C	C	Oyster dome LED,Selene 30w,IP54
D1	D1	Downlight 13w fixed, 950 lm, IP44
D2	D2	Downlight 7.5w Tilt, 575lm, IP20
D3	D3	Downlight 20w fixed, 1730lm, IP54
D4	D4	Wall spot, 10w, 730lm, IP20
F3	F3	LED strip,Kit and vanity overcupboards
G2	G2	EX Downlight 10w, 800lm, IP44, copper
H1	H1	Bollard, 800mm tall, 7w, 420lm, IP54
J1	J1	EX Downlight,Tilt IP54
K1	K1	Carpark light,pole mounted,LED
P	P	Pendant, Kitchen island, type TBC
Q1	Q1	Wall light, Apartment entry marker

Symbols not shown to scale

300	Double Power point 1200mm
S	Double Power point 1200mm
	Single Power point 1200mm
USB	Double Power with USB charger 1200mm
PH TV	Power Phone Tv outlet 1200mm
SWB	Distribution board,45 ways 1200mm
PH/TV	Data & TV Comms board 1200mm
TOWEL	Heated towel rail 1200mm
F3	See detail Vanity LED strip, power point

NOTES:

- All the shown lighting diamentions are subjected to change as per the actual installation during pre-wire stage.
- See Kitchen plan for outlet locations.
- All electrical work to comply with NZBC F7/AS1, AS/NZS 3000 and all relevent amendments.
- Ventilation & Smoke alarms by other trade.
- Intergrate Power / Data / Tv outlets into the same plate where possible.
- Run power supply to AC outdoor unit,one on each balcony, location TBC.
- For TV & PH sockets location will be as per the final architecture layout.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL	

Scale	A1=As indicated
Date	30/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

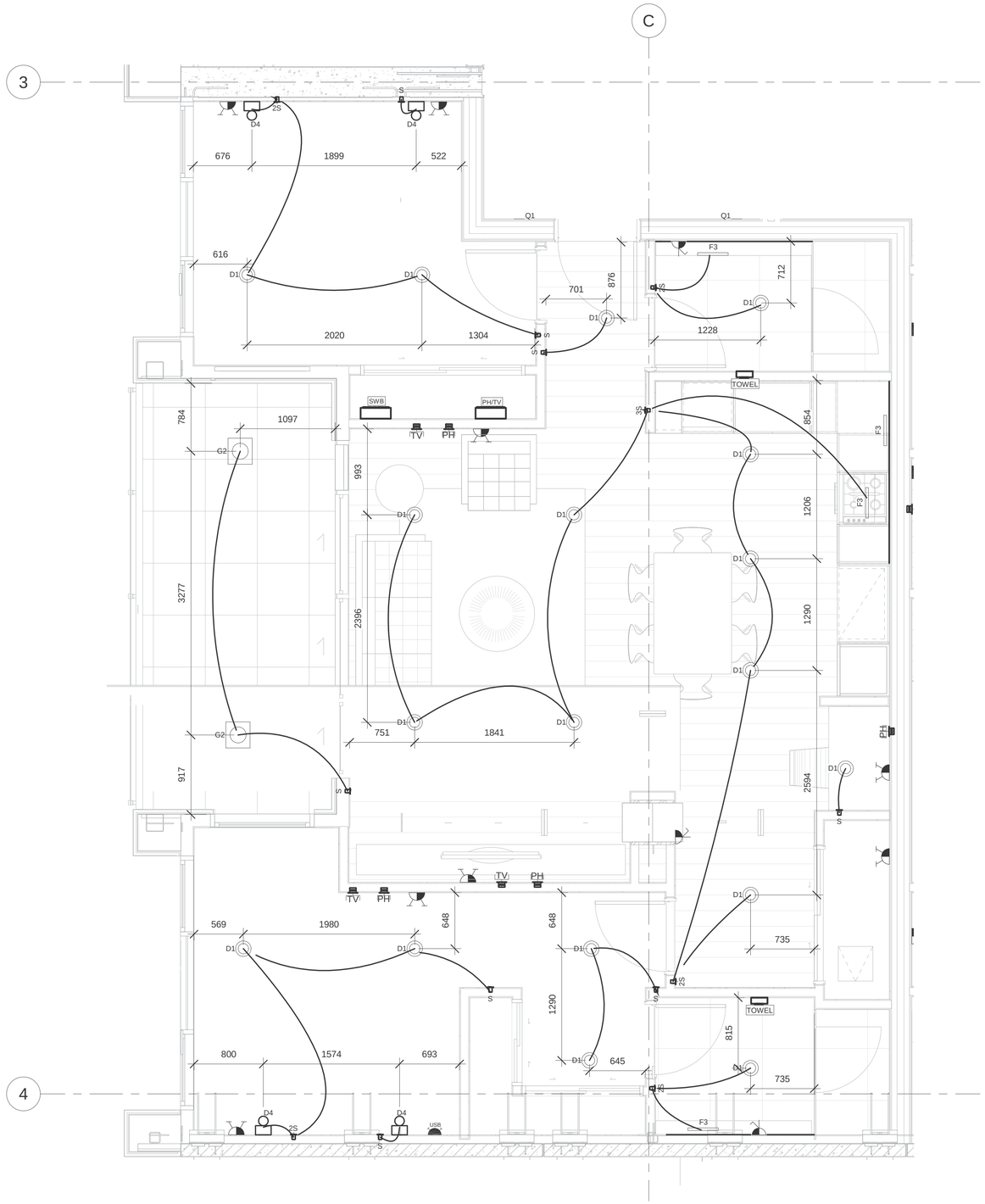
Job Name: Latitude Apartment, 8-10 Park Street

Job Title: ENLARGE APPARTMENT 3E LIGHTING & POWER LAYOUT

Drawing number: E26

ELECTRICAL LAYOUT DRAWING

Issue: A



1 ENLARGE APPARTMENT 3F LIGHTING & POWER LAYOUT

1 : 30

ENERGY SERVICES

TYPE	SYMBOL	DESCRIPTION
A	A	Bulkhead,wall mount, Robus Vega IP65
A2	A2	Bulkhead,wall mount, Robus Falcon IP65
B	B	Defender batten,2 x30w, IP65
C	C	Oyster dome LED,Selene 30w,IP54
D1	D1	Downlight 13w fixed, 950 lm, IP44
D2	D2	Downlight 7.5w Tilt, 575lm, IP20
D3	D3	Downlight 20w fixed, 1730lm, IP54
D4	D4	Wall spot, 10w, 730lm, IP20
F3	F3	LED strip,Kit and vanity overcupboards
G2	G2	EX Downlight 10w, 800lm, IP44, copper
H1	H1	Bollard, 800mm tall, 7w, 420lm, IP54
J1	J1	EX Downlight,Tilt IP54
K1	K1	Carpark light,pole mounted,LED
P	P	Pendant, Kitchen island, type TBC
Q1	Q1	Wall light, Apartment entry marker

Symbols not shown to scale

300	Double Power point 1200mm
	Double Power point 1200mm
	Single Power point 1200mm
USB	Double Power with USB charger 1200mm
PH TV	Power Phone Tv outlet 1200mm
SWB	Distribution board,45 ways 1200mm
PH/TV	Data & TV Comms board 1200mm
TOWEL	Heated towel rail 1200mm
F3	See detail Vanity LED strip, power point

NOTES:

- All the shown lighting diamentions are subjected to change as per the actual installation during pre-wire stage.
- See Kitchen plan for outlet locations.
- All electrical work to comply with NZBC F7/AS1, AS/NZS 3000 and all relevent amendments.
- Ventilation & Smoke alarms by other trade.
- Intergrate Power / Data / Tv outlets into the same plate where possible.
- Run power supply to AC outdoor unit,one on each balcony, location TBC.
- For TV & PH sockets location will be as per the final architecture layout.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL	

Scale	A1=As indicated
Date	30/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

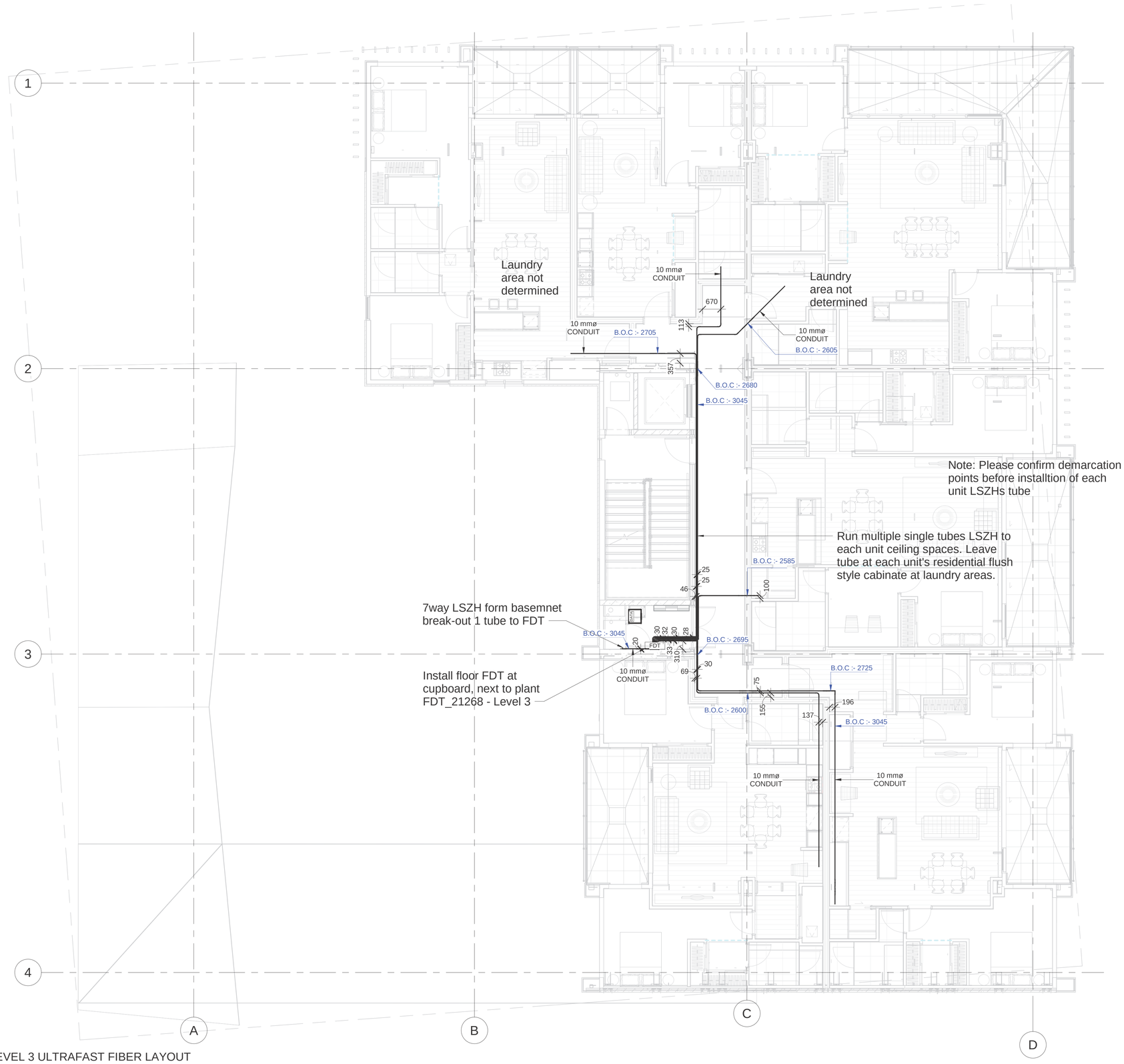
Job Name: Latitude Apartment
8-10 Park Street

Job Title: ENLARGE APPARTMENT 3F LIGHTING & POWER LAYOUT

Drawing number: E27

ELECTRICAL LAYOUT DRAWING

Issue: A



1 LEVEL 3 ULTRAFAST FIBER LAYOUT

1 : 75

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL	

Scale	A1=1 : 75
Date	30/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: LEVEL 3 ULTRAFAST FIBER LAYOUT

Drawing number: E43

ELECTRICAL LAYOUT DRAWING

Issue: A

1 LEVEL 3 ACCESS CONTROL LAYOUT

1 : 75

ENERGY SERVICES

TYPE	SYMBOL	DESCRIPTION
SX		Access Control panel
i		Aiphone unit video intercom station GT-1M3
p		Proximity card reader
es		Electric Strike
er		EmRex Emergency EXIT
IEX		Aiphone Entrance intercom station
ex		Touch to Exit pad

Symbols not shown to scale

be alarmed
COMPLETE SECURITY SOLUTIONS

* Security & access control contractor
Lance McCormick
021 035 0074

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL	

Scale	A1=As indicated
Date	30/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: LEVEL 3 ACCESS CONTROL LAYOUT

Drawing number: EA03

ELECTRICAL LAYOUT DRAWING

Issue: A

PROJECT NAME : LATITUDE APARTMENTS

PROJECT NO. : FBB1090

ELECTRICAL SERVICES

SHEET LIST

SHEET NUMBER	SHEET NAME	ISSUE	ISSUED DATE	CURRENT ISSUED DESCRIPTION
E00	COVER PAGE & SHEET LIST	D	03-12-18	LEVEL 4 SHOP DRAWING ADDED
E01	LEGEND	A	03-12-18	ISSUED FOR APPROVAL
E04	LEVEL 1 COMMON AREA LIGHTING & POWER LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
E05	LEVEL 2 COMMON AREA LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E06	LEVEL 3 COMMON AREA LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E07	LEVEL 4 COMMON AREA LIGHTING & POWER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E12	ENLARGE APARTMENT 1A LIGHTING & POWER LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
E13	ENLARGE APARTMENT 1B LIGHTING & POWER LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
E14	ENLARGE APARTMENT 1C LIGHTING & POWER LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
E15	ENLARGE APARTMENT 1D LIGHTING & POWER LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
E16	ENLARGE APARTMENT 2A LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E17	ENLARGE APARTMENT 2B LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E18	ENLARGE APARTMENT 2C LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E19	ENLARGE APARTMENT 2D LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E20	ENLARGE APARTMENT 2E LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E21	ENLARGE APARTMENT 2F LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E22	ENLARGE APARTMENT 3A LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E23	ENLARGE APARTMENT 3B LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E24	ENLARGE APARTMENT 3C LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E25	ENLARGE APARTMENT 3D LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E26	ENLARGE APARTMENT 3E LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E27	ENLARGE APARTMENT 3F LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E28	ENLARGE APARTMENT 4A LIGHTING & POWER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E29	ENLARGE APARTMENT 4B LIGHTING & POWER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E30	ENLARGE APARTMENT 4C LIGHTING & POWER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E31	ENLARGE APARTMENT 4D LIGHTING & POWER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E32	ENLARGE APARTMENT 4E LIGHTING & POWER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E41	LEVEL 1 ULTRAFAST FIBER LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
E42	LEVEL 2 ULTRAFAST FIBER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E43	LEVEL 3 ULTRAFAST FIBER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E44	LEVEL 4 ULTRAFAST FIBER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
EA01	LEVEL 1 ACCESS CONTROL LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
EA02	LEVEL 2 ACCESS CONTROL LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
EA03	LEVEL 3 ACCESS CONTROL LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
EA04	LEVEL 4 ACCESS CONTROL LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
D	03-12-18	LEVEL 4 SHOP DRAWING ADDED	
C	30-11-18	LEVEL 3 SHOP DRAWING ADDED	
B	28-11-18	LEVEL 2 SHOP DRAWING ADDED	
A	26-11-18	LEVEL 1 SHOP DRAWING ADDED	

Scale	A1=
Date	26/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: COVER PAGE & SHEET LIST

Drawing number: E00

Issue: D

LEGEND:-

TYPE	SYMBOL	DESCRIPTION
A	A	Bulkhead,wall mount, Robus Vega IP65
A2	A2	Bulkhead,wall mount, Robus Falcon IP65
B	B	Defender batten,2 x30w, IP65
C	C	Oyster dome LED,Selene 30w,IP54
D1	D1	Downlight 13w fixed, 950 lm, IP44
D2	D2	Downlight 7.5w Tilt, 575lm, IP20
D3	D3	Downlight 20w fixed, 1730lm, IP54
D4	D4	Wall spot, 10w, 730lm, IP20
F3	F3	LED strip,Kit and vanity overcupboards
G2	G2	EX Downlight 10w, 800lm, IP44, copper
H1	H1	Bollard, 800mm tall, 7w, 420lm, IP54
J1	J1	EX Downlight,Tilt IP54
K1	K1	Pendant, Kitchen island, type TBC
P	P	Carpark light,pole mounted,LED
Q1	Q1	Wall light, Apartment entry marker
	300	Double Power point 1200mm
		Double Power point 1200mm
		Single Power point 1200mm
	USB	Double Power with USB charger 1200mm
	PH TV	Power Phone Tv outlet 1200mm
	SWB	Distribution board,45 ways 1200mm
	PH/TV	Data & TV Comms board 1200mm
	TOWEL	Heated towel rail 1200mm
	F3	See detail Vanity LED strip, power point
Q1		Type Q1 light 1800mm height on the wall.
		Unit Entry Sign

TYPE	SYMBOL	DESCRIPTION
L3		Future strip lighting
DB	DB	Distribution Board 1,2,3,4 & 5
		EMERGENCY LIGHTING LUMINAIRES
EM2	EM2	Wall mounted bulkhead
BEM	B-EM	Under varanda
EM1	EM1	Flush downlight
EX1	EX1 EXIT	Exit sign
EX2	EX2 EXIT	Exit sign IP rated
EX3	EX3 EXIT	Exit sign flush base plate
		LIGHTING CONTROL
	IN	Motion sensor interior
	OUT	Motion sensor exterior
	S	Single Gang Socket
	2S	Double Gang Socket
	3S	Tripple Gang Socket
		GENERAL POWER OUTLETS
		Double Power point 1200mm
		Single Power point 1200mm
		ACCESS CONTROL
	SX	Access Control panel
	i	Aiphone unit video intercom station GT-1M3
	p	Proximity card reader
	es	Electric Strike
	er	EmRex Emergency EXIT
	IEX	Aiphone Entrance intercom station
	ex	Touch to Exit pad

GENERAL NOTES:

- All the shown lighting diamentions are subjected to change as per the actual installation during pre-wire stage.
- See Kitchen plan for outlet locations.
- All electrical work to comply with NZBC F7/AS1, AS/NZS 3000 and all relevent amendments.
- Ventilation & Smoke alarms by other trade.
- Intergrate Power / Data / Tv outlets into the same plate where possible.
- Run power supply to AC outdoor unit,one on each balcony, location TBC.
- For TV & PH sockets location will be as per the final architecture layout.
- All the shown lighting diamentions are subjected to change as per the actual installation during pre-wire stage.
- See Luminaire spec sheets for further product info.
- All landlord lighting automatically controlled with manual overide switch along side floor distribution board.
- Please confirm demarcation points before installtion of each unit LSZHs tube

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	08-12-18	ISSUED FOR APPROVAL	

Scale	A1= 1 : 50
Date	08/12/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: LEGEND

Drawing number: E01

Issue: A

1 LEVEL 5 COMMON AREA LIGHTING & POWER LAYOUT

1 : 75

Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	06-12-18	ILEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL	

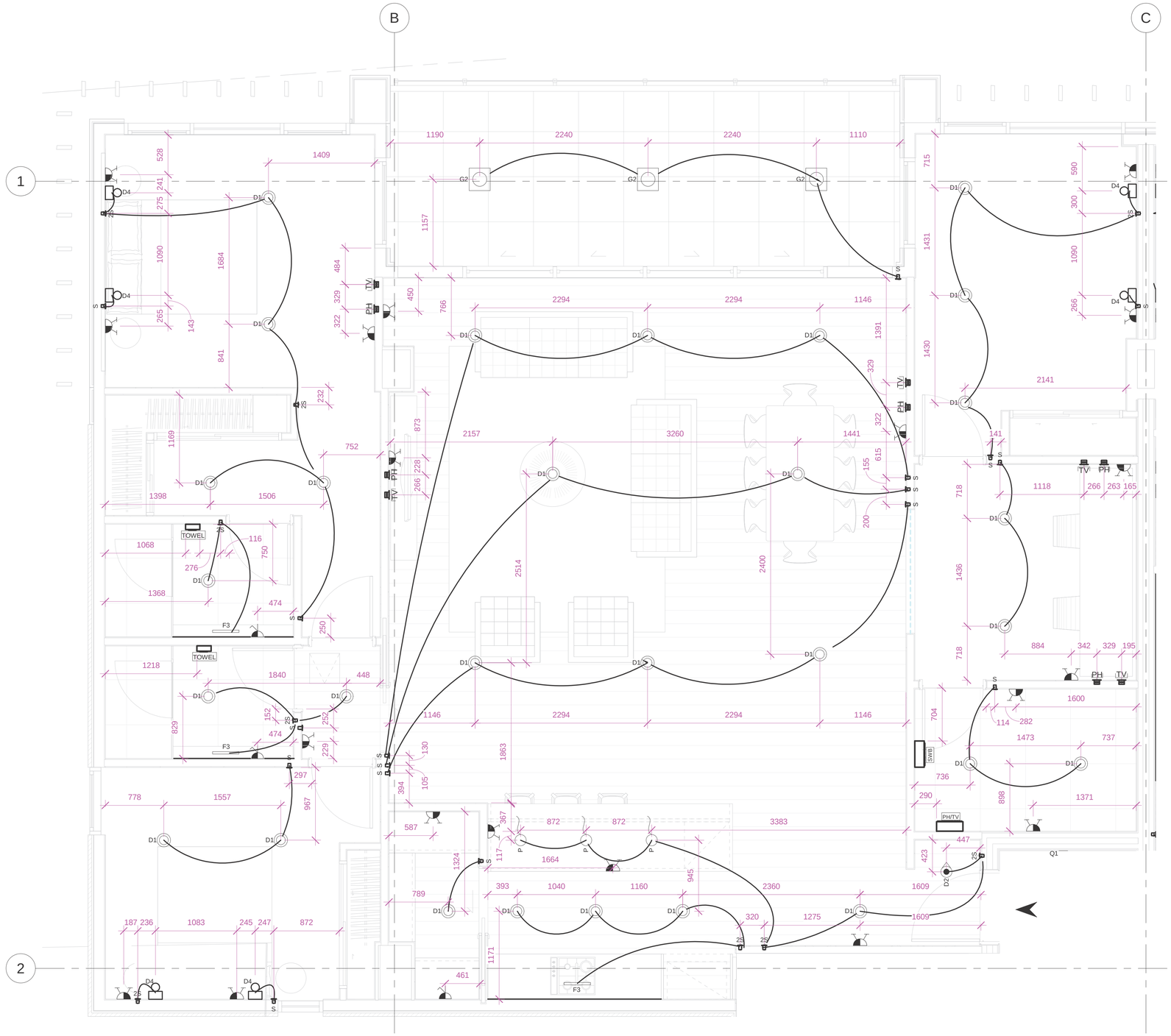
Scale	A1=1 : 75
Date	08/12/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: LEVEL 5 COMMON AREA LIGHTING & POWER LAYOUT

Drawing number: E08

Issue: A



1 ENLARGE APARTMENT 5A LIGHTING & POWER LAYOUT

1 : 30

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL	

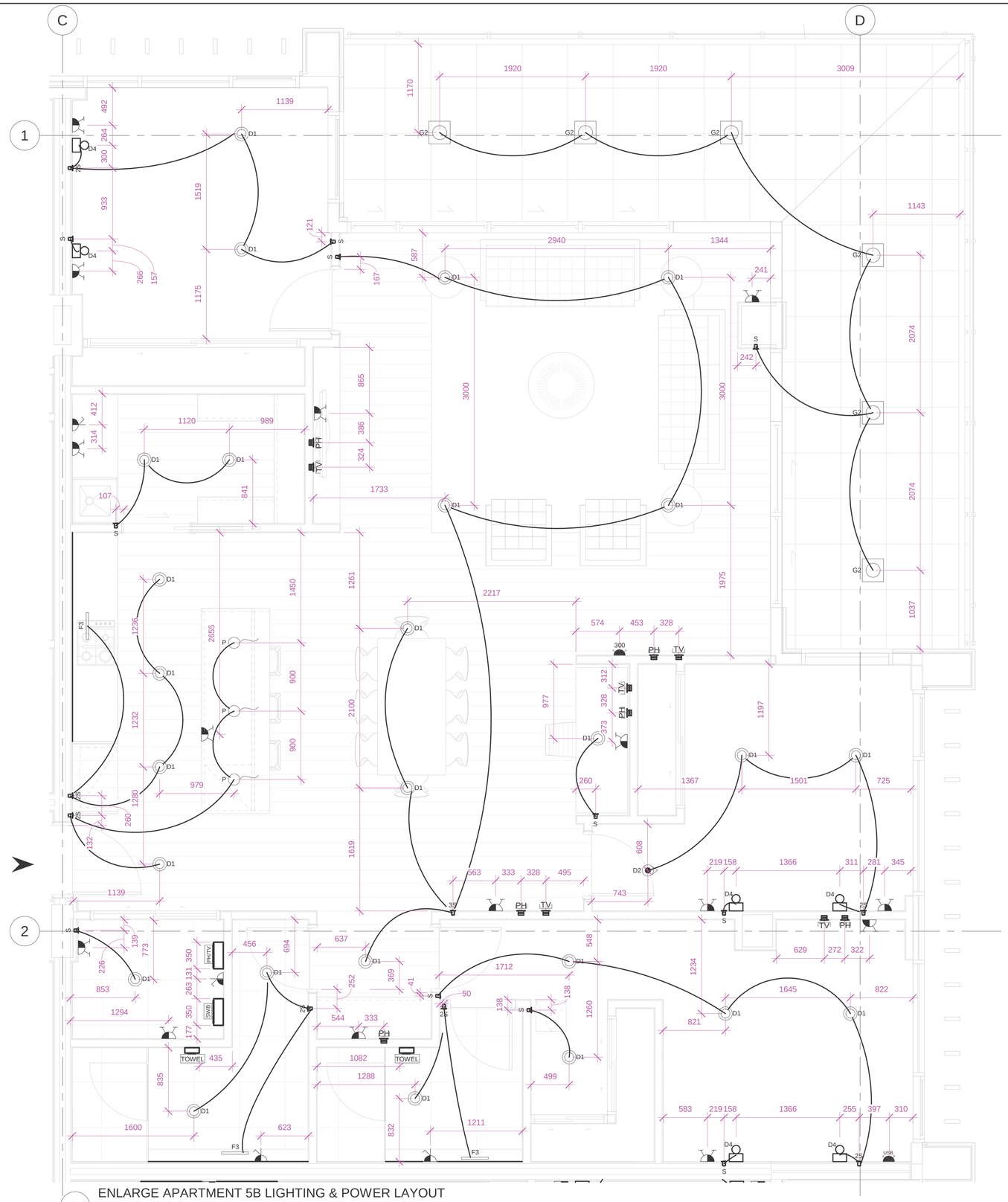
Scale	A1=1 : 30
Date	08/12/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: ENLARGE APARTMENT 5A LIGHTING & POWER LAYOUT

Drawing number: E33

Issue: A



1 ENLARGE APARTMENT 5B LIGHTING & POWER LAYOUT

1 : 30

Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL	

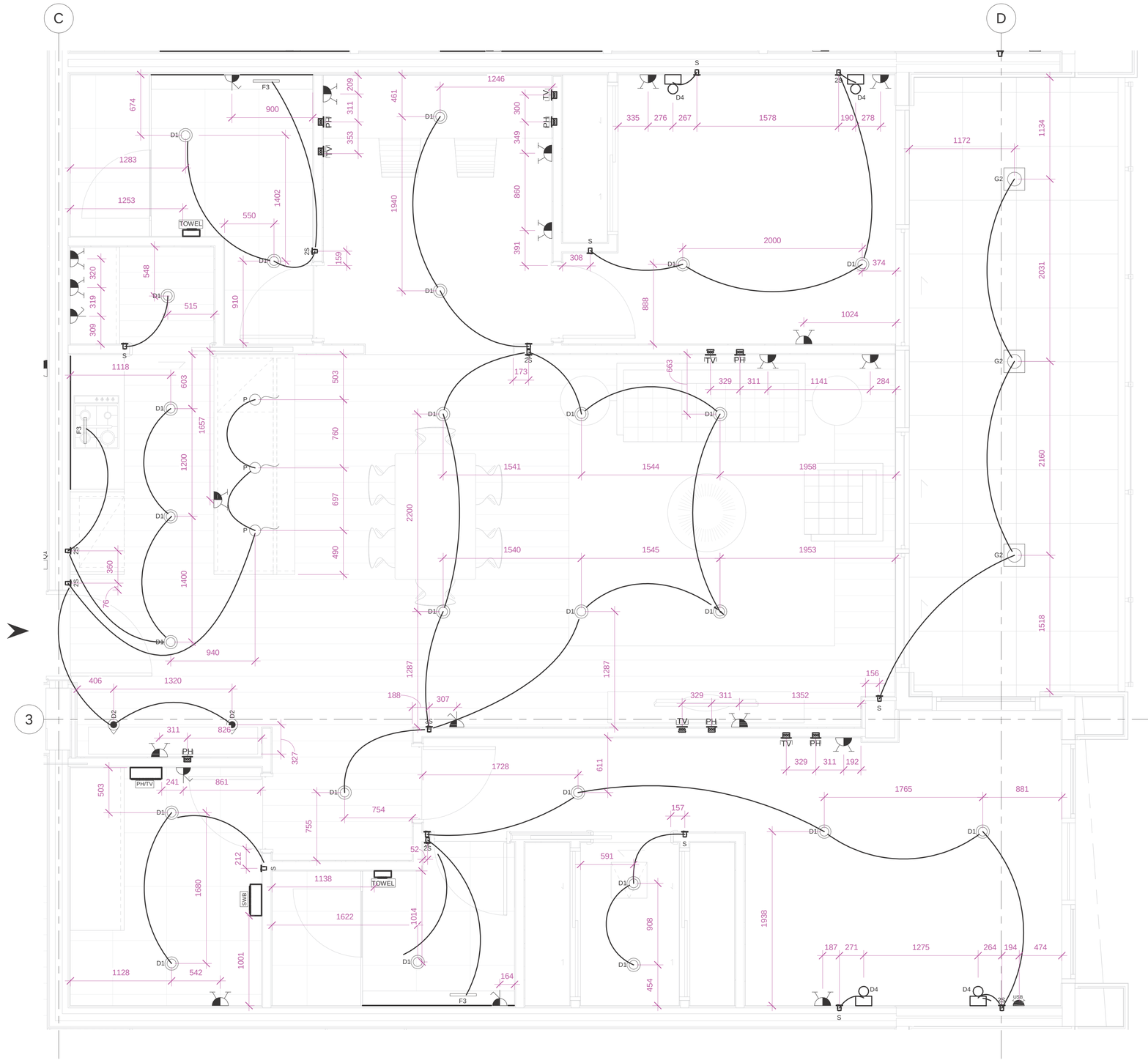
Scale	A1=1 : 30
Date	08/12/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: ENLARGE APARTMENT 5B LIGHTING & POWER LAYOUT

Drawing number: E34

Issue: A


C
D
3
F3
D1
D2
D4
G2
S
2S
TV
PH
TOWEL
PH/TV
SWB
P
1246
1578
1172
1134
2031
2160
1518
1541
1544
1958
1540
1545
1953
1728
1765
881
1138
1622
1680
1001
1128
542
940
1320
1275
1938
908
454
591
1352
1024
2000
1283
1253
1402
1118
1657
1200
1400
1940
1287
860
888
663
1141
1541
2200
1014
611
755
754
1728
1765
1938
1518
2160
2031
1134
1172
1246
1578
1352
1024
2000
1941
1287
1400
1657
1200
1118
1283
1253
1402
940
1320
1128
542
1001
1680
1622
1138
1014
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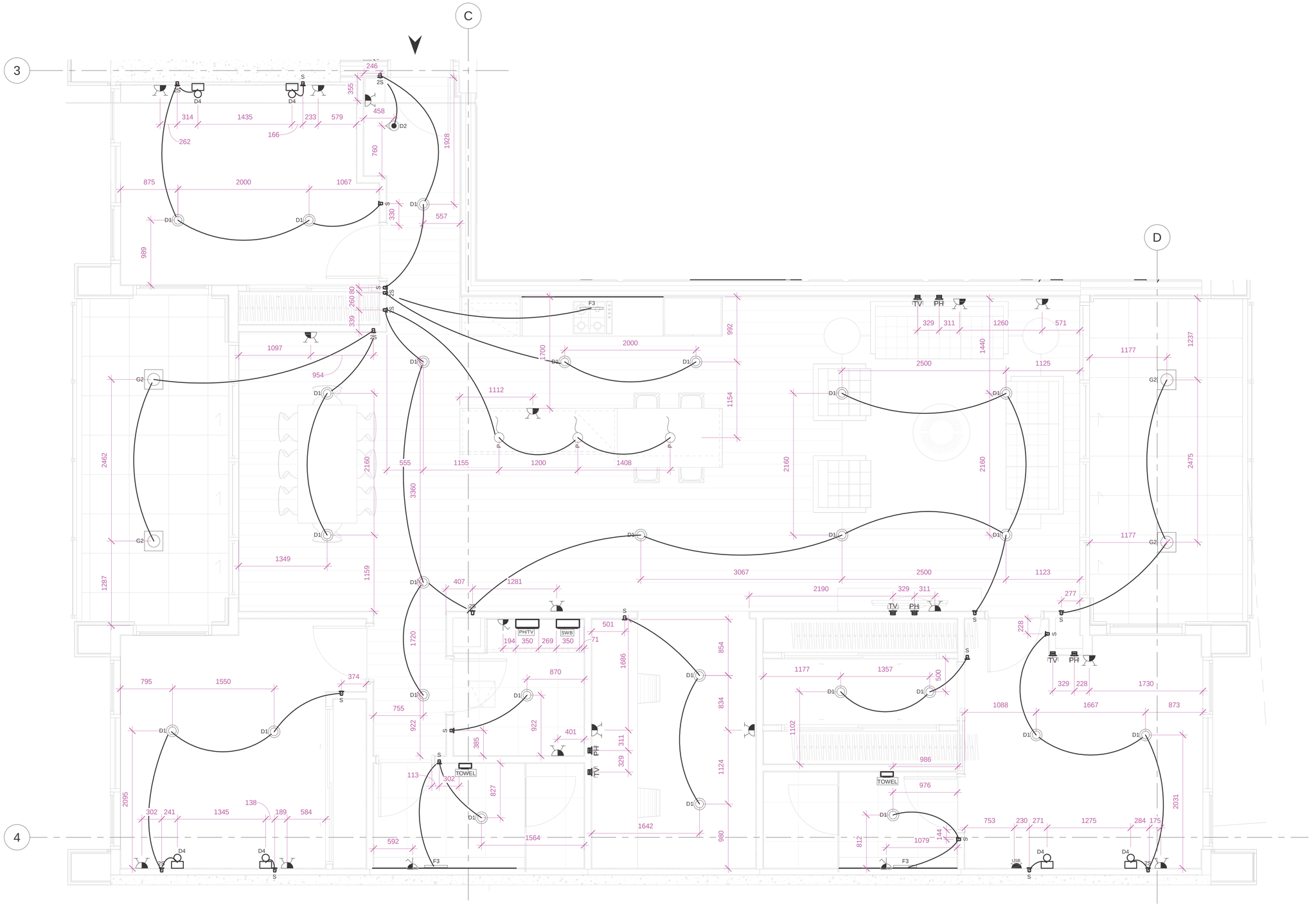

1 ENLARGE APARTMENT 5D LIGHTING & POWER LAYOUT

1 : 30

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	08-12-18	1LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1=1 : 30
Date	08/12/18
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: ENLARGE APARTMENT 5D LIGHTING & POWER LAYOUT

Drawing number: E36

Issue: A

Note: Please confirm demarcation points before installation of each unit LSZHs tube

1 LEVEL 5 ULTRAFAST FIBER LAYOUT

1 : 75

Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1=1 : 75
Date	08/12/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: LEVEL 5 ULTRAFAST FIBER LAYOUT

Drawing number: E45

Issue: A

1 LEVEL 5 ACCESS CONTROL LAYOUT

1 : 75

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1=1 : 75
Date	08/12/18
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: LEVEL 5 ACCESS CONTROL LAYOUT

Drawing number: EA05

Issue: A

PROJECT NAME : LATITUDE APARTMENTS

PROJECT NO. : FBB1090

ELECTRICAL SERVICES

SHEET LIST

SHEET NUMBER	SHEET NAME	ISSUE	ISSUED DATE	CURRENT ISSUED DESCRIPTION
E00	COVER PAGE & SHEET LIST	F	10-12-18	LEVEL 6 SHOP DRAWING ADDED
E01	LEGEND	A	08-12-18	ISSUED FOR APPROVAL
E04	LEVEL 1 COMMON AREA LIGHTING & POWER LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
E05	LEVEL 2 COMMON AREA LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E06	LEVEL 3 COMMON AREA LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E07	LEVEL 4 COMMON AREA LIGHTING & POWER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E08	LEVEL 5 COMMON AREA LIGHTING & POWER LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
E09	LEVEL 6 COMMON AREA LIGHTING & POWER LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL
E12	ENLARGE APARTMENT 1A LIGHTING & POWER LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
E13	ENLARGE APARTMENT 1B LIGHTING & POWER LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
E14	ENLARGE APARTMENT 1C LIGHTING & POWER LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
E15	ENLARGE APARTMENT 1D LIGHTING & POWER LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
E16	ENLARGE APARTMENT 2A LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E17	ENLARGE APARTMENT 2B LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E18	ENLARGE APARTMENT 2C LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E19	ENLARGE APARTMENT 2D LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E20	ENLARGE APARTMENT 2E LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E21	ENLARGE APARTMENT 2F LIGHTING & POWER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E22	ENLARGE APARTMENT 3A LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E23	ENLARGE APARTMENT 3B LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E24	ENLARGE APARTMENT 3C LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E25	ENLARGE APARTMENT 3D LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E26	ENLARGE APARTMENT 3E LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E27	ENLARGE APARTMENT 3F LIGHTING & POWER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E28	ENLARGE APARTMENT 4A LIGHTING & POWER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E29	ENLARGE APARTMENT 4B LIGHTING & POWER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E30	ENLARGE APARTMENT 4C LIGHTING & POWER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E31	ENLARGE APARTMENT 4D LIGHTING & POWER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E32	ENLARGE APARTMENT 4E LIGHTING & POWER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E33	ENLARGE APARTMENT 5A LIGHTING & POWER LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
E34	ENLARGE APARTMENT 5B LIGHTING & POWER LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
E35	ENLARGE APARTMENT 5C LIGHTING & POWER LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
E36	ENLARGE APARTMENT 5D LIGHTING & POWER LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
E37	ENLARGE APARTMENT 6A LIGHTING & POWER LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL
E38	ENLARGE APARTMENT 6B LIGHTING & POWER LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL
E39	ENLARGE APARTMENT 6C LIGHTING & POWER LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL
E41	LEVEL 1 ULTRAFAST FIBER LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
E42	LEVEL 2 ULTRAFAST FIBER LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
E43	LEVEL 3 ULTRAFAST FIBER LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
E44	LEVEL 4 ULTRAFAST FIBER LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
E45	LEVEL 5 ULTRAFAST FIBER LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
E46	LEVEL 6 ULTRAFAST FIBER LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL
EA01	LEVEL 1 ACCESS CONTROL LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
EA02	LEVEL 2 ACCESS CONTROL LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
EA03	LEVEL 3 ACCESS CONTROL LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING -ISSUED FOR APPROVAL
EA04	LEVEL 4 ACCESS CONTROL LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING -ISSUED FOR APPROVAL
EA05	LEVEL 5 ACCESS CONTROL LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
EA06	LEVEL 6 ACCESS CONTROL LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL

F

F

F

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
F	10-12-18	LEVEL 6 SHOP DRAWING ADDED	
E	08-12-18	LEVEL 5 SHOP DRAWING ADDED	
D	03-12-18	LEVEL 4 SHOP DRAWING ADDED	
C	30-11-18	LEVEL 3 SHOP DRAWING ADDED	
B	28-11-18	LEVEL 2 SHOP DRAWING ADDED	
A	26-11-18	LEVEL 1 SHOP DRAWING ADDED	

Scale	A1=
Date	26/11/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: COVER PAGE & SHEET LIST

Drawing number: E00

Issue: F

LEGEND:-

TYPE	SYMBOL	DESCRIPTION
A	A	Bulkhead,wall mount, Robus Vega IP65
A2	A2	Bulkhead,wall mount, Robus Falcon IP65
B	B	Defender batten,2 x30w, IP65
C	C	Oyster dome LED,Selene 30w,IP54
D1	D1	Downlight 13w fixed, 950 lm, IP44
D2	D2	Downlight 7.5w Tilt, 575lm, IP20
D3	D3	Downlight 20w fixed, 1730lm, IP54
D4	D4	Wall spot, 10w, 730lm, IP20
F3	F3	LED strip,Kit and vanity overcupboards
G2	G2	EX Downlight 10w, 800lm, IP44, copper
H1	H1	Bollard, 800mm tall, 7w, 420lm, IP54
J1	J1	EX Downlight,Tilt IP54
K1	K1	Pendant, Kitchen island, type TBC
P	P	Carpark light,pole mounted,LED
Q1	Q1	Wall light, Apartment entry marker
	300	Double Power point 1200mm
		Double Power point 1200mm
		Single Power point 1200mm
	USB	Double Power with USB charger 1200mm
	PH TV	Power Phone Tv outlet 1200mm
	SWB	Distribution board,45 ways 1200mm
	PH/TV	Data & TV Comms board 1200mm
	TOWEL	Heated towel rail 1200mm
	F3	See detail Vanity LED strip, power point
Q1		Type Q1 light 1800mm height on the wall.
		Unit Entry Sign

TYPE	SYMBOL	DESCRIPTION
L3		Future strip lighting
DB	DB	Distribution Board 1,2,3,4 & 5
		EMERGENCY LIGHTING LUMINAIRES
EM2	EM2	Wall mounted bulkhead
BEM	B-EM	Under varanda
EM1	EM1	Flush downlight
EX1	EX1 EXIT	Exit sign
EX2	EX2 EXIT	Exit sign IP rated
EX3	EX3 EXIT	Exit sign flush base plate
		LIGHTING CONTROL
	IN	Motion sensor interior
	OUT	Motion sensor exterior
	S	Single Gang Socket
	2S	Double Gang Socket
	3S	Tripple Gang Socket
		GENERAL POWER OUTLETS
		Double Power point 1200mm
		Single Power point 1200mm
		ACCESS CONTROL
	SX	Access Control panel
	i	Aiphone unit video intercom station GT-1M3
	p	Proximity card reader
	es	Electric Strike
	er	EmRex Emergency EXIT
	IEX	Aiphone Entrance intercom station
	ex	Touch to Exit pad

GENERAL NOTES:

- All the shown lighting diamentions are subjected to change as per the actual installation during pre-wire stage.
- See Kitchen plan for outlet locations.
- All electrical work to comply with NZBC F7/AS1, AS/NZS 3000 and all relevent amendments.
- Ventilation & Smoke alarms by other trade.
- Intergrate Power / Data / Tv outlets into the same plate where possible.
- Run power supply to AC outdoor unit,one on each balcony, location TBC.
- For TV & PH sockets location will be as per the final architecture layout.
- All the shown lighting diamentions are subjected to change as per the actual installation during pre-wire stage.
- See Luminaire spec sheets for further product info.
- All landlord lighting automatically controlled with manual overide switch along side floor distribution board.
- Please confirm demarcation points before installtion of each unit LSZHs tube

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ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	08-12-18	ISSUED FOR APPROVAL	

Scale	A1= 1 : 50
Date	08/12/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: LEGEND

Drawing number: E01

Issue: A

1 LEVEL 6 COMMON AREA LIGHTING & POWER LAYOUT

1 : 75

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL	

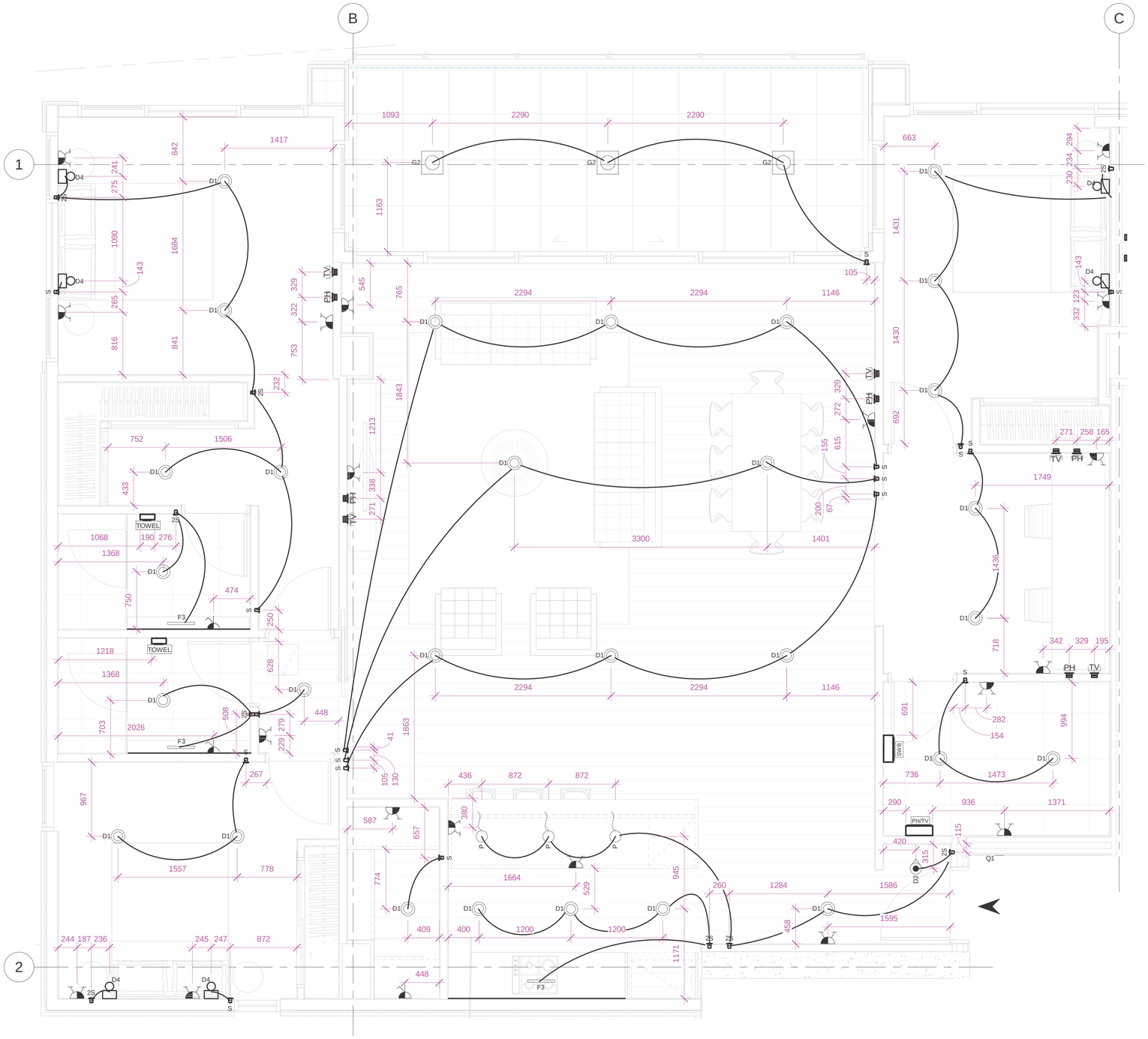
Scale	A1=1 : 75
Date	10/12/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: LEVEL 6 COMMON AREA LIGHTING & POWER LAYOUT

Drawing number: E09

Issue: A



1 ENLARGE APARTMENT 6A LIGHTING & POWER LAYOUT

1 : 30

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL	

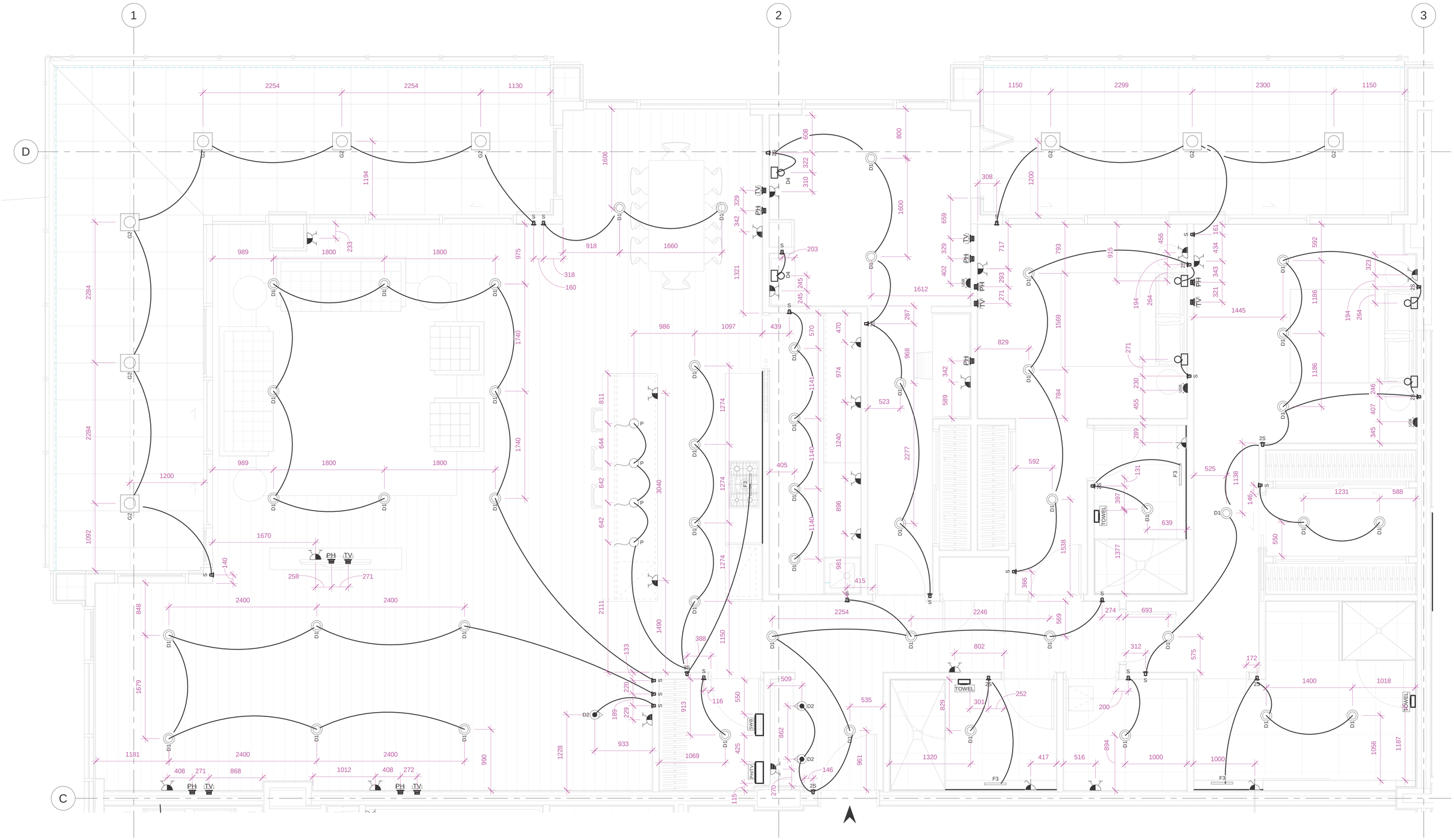
Scale	A1=1 : 30
Date	10/12/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: ENLARGE APARTMENT 6A LIGHTING & POWER LAYOUT

Drawing number: E37

Issue: A



1 ENLARGE APARTMENT 6B LIGHTING & POWER LAYOUT

1 : 30

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL	

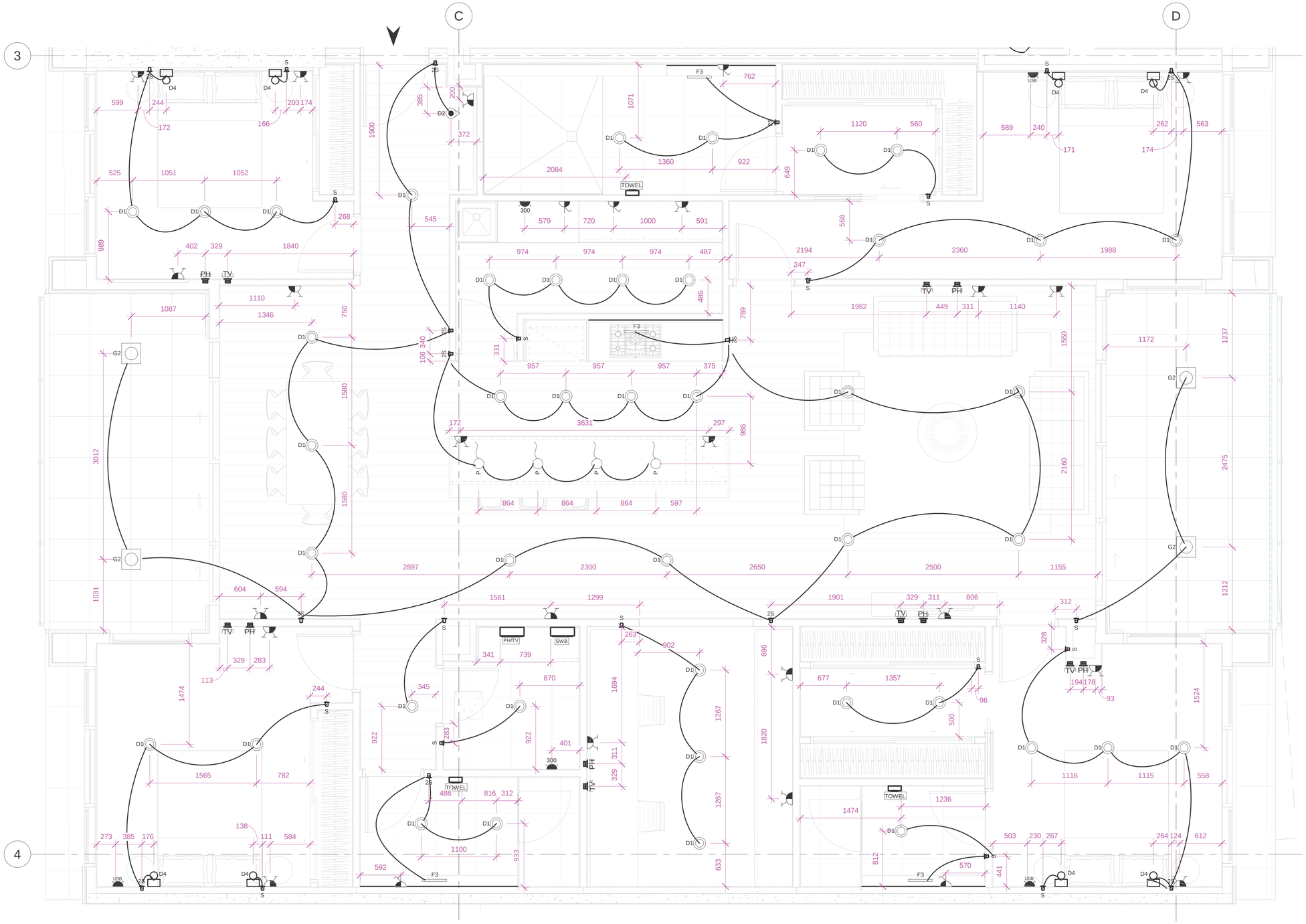
Scale	A1=1 : 30
Date	10/12/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: ENLARGE APARTMENT 6B LIGHTING & POWER LAYOUT

Drawing number: E38

Issue: A



1 ENLARGE APARTMENT 6C LIGHTING & POWER LAYOUT

1 : 30

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1=1 : 30
Date	10/12/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: ENLARGE APARTMENT 6C LIGHTING & POWER LAYOUT

Drawing number: E39

Issue: A

Note: Please confirm demarcation points before installation of each unit LSZHs tube

1 LEVEL 6 ULTRAFAST FIBER LAYOUT

1 : 75

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1=1 : 75
Date	10/12/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: LEVEL 6 ULTRAFAST FIBER LAYOUT

Drawing number: E46

Issue: A

1 LEVEL 6 ACCESS CONTROL LAYOUT

1 : 75

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1=1 : 75
Date	10/12/2018
Drawn	SV
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8-10 Park Street

Job Title: LEVEL 6 ACCESS CONTROL LAYOUT

Drawing number: EA06

Issue: A

SHEET LIST

SHEET NUMBER	SHEET NAME	REVISION	REVISION DATE	CURRENT REVISION DESCRIPTION
H0000	COVER PAGE & SHEET LIST	G	18-12-18	BASEMENT SHOP DRAWINGS ADDED
H0001	LEGEND	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H100A	BASEMENT HIGH LEVEL SANITARY LAYOUT	A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL
H100B	BASEMENT WATER SUPPLY LAYOUT	A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL
H100C	BASEMENT HIGH LEVEL SANITARY LAYOUT PART 1	A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL
H100D	BASEMENT HIGH LEVEL SANITARY LAYOUT PART 2	A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL
H100E	BASEMENT HIGH LEVEL SANITARY SECTIONS	A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL
H100F	BASEMENT EMBEDDED STORM WATER LAYOUT	A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL
H100G	BASEMENT HIGH LEVEL STORM WATER LAYOUT	A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL
H100H	BASEMENT EMBEDDED STROM WATER SECTIONS	A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL
H100I	BASEMENT HIGH LEVEL STROM WATER SECTIONS	A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL
H101A	LEVEL 1 HIGH LEVEL SANITARY SERVICES LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H101B	LEVEL 1 WATER RETICULATION LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H111	LEVEL 1 HIGH LEVEL SANITARY LAYOUT PART 1 & SECTIONS	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H112	LEVEL 1 HIGH LEVEL SANITARY LAYOUT PART 2 & SECTIONS	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H113	UNIT 1A WATER SUPPLY LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H114	UNIT 1B WATER SUPPLY LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H115	UNIT 1C WATER SUPPLY LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H116	UNIT 1D WATER SUPPLY LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H201A	LEVEL 2 HIGH LEVEL SANITARY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H201B	LEVEL 2 WATER RETICULATION LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H211	LEVEL 2 HIGH LEVEL SANITARY LAYOUT PART 1 & SECTIONS	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H212	LEVEL 2 HIGH LEVEL SANITARY LAYOUT PART 2 & SECTIONS	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H213	UNIT 2A WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H214	UNIT 2B WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H215	UNIT 2C WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H216	UNIT 2D WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H217	UNIT 2E WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H218	UNIT 2F WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H301A	LEVEL 3 HIGH LEVEL SANITARY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H301B	LEVEL 3 WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H311	LEVEL 3 HIGH LEVEL SANITARY LAYOUT - PART 1	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H312	LEVEL 3 HIGH LEVEL SANITARY LAYOUT - PART 2	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H313	LEVEL 3 HIGH LEVEL SANITARY SECTION	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H314	UNIT 3A WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H315	UNIT 3B WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H316	UNIT 3C WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H317	UNIT 3D WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H318	UNIT 3E WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H319	UNIT 3F WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H401A	LEVEL 4 HIGH LEVEL SANITARY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H401B	LEVEL 4 WATER SUPPLY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H411	LEVEL 4 HIGH LEVEL SANITARY LAYOUT - PART 1	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H412	LEVEL 4 HIGH LEVEL SANITARY LAYOUT - PART 2	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H413	UNIT 4A WATER SUPPLY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H414	UNIT 4B WATER SUPPLY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H415	UNIT 4C WATER SUPPLY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H416	UNIT 4D WATER SUPPLY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H417	UNIT 4E WATER SUPPLY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H501A	LEVEL 5 HIGH LEVEL SANITARY LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
H501B	LEVEL 5 WATER SUPPLY LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
H511	LEVEL 5 HIGH LEVEL SANITARY LAYOUT - PART 1	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
H512	LEVEL 5 HIGH LEVEL SANITARY LAYOUT - PART 2	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
H513	UNIT 5A WATER SUPPLY LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
H514	UNIT 5B WATER SUPPLY LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
H515	UNIT 5C WATER SUPPLY LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
H516	UNIT 5D WATER SUPPLY LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
H601B	LEVEL 6 WATER SUPPLY LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL
H611	UNIT 6A WATER SUPPLY LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL
H612	UNIT 6B WATER SUPPLY LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL
H613	UNIT 6C WATER SUPPLY LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL

G

PORJECT NAME : LATITUDE APARTMENTS

PORJECT NO. : FBB1090

HYDRAULIC SERVICES

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
G	18-12-18	BASEMENT SHOP DRAWINGS ADDED	
F	10-12-18	LEVEL 6 SHOP DRAWINGS ADDED	
E	08-12-18	LEVEL 5 SHOP DRAWINGS ADDED	
D	03-12-18	LEVEL 4 SHOP DRAWINGS ADDED	
C	30-11-18	LEVEL 3 SHOP DRAWINGS ADDED	
B	28-11-18	LEVEL 2 SHOP DRAWINGS ADDED	
A	26-11-18	LEVEL 1 SHOP DRAWINGS ADDED	

Scale	A1=
Date	26/11/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

Job Title: COVER PAGE & SHEET LIST

Drawing number: H0000

Issue: G

ABBRIVATIONS :-

AAV : Air Admittance Valve
AFFL : Above Finished Floor Level
A/G : Above Ground
B : Bath
BDT : Bidet
BFFL : Below Finished Floor Level
BFP : Back Flow Preventer
BIFO : Blucher Industrial Floor Outlet
BO : Balcony Outlet
BL : Balcony
BSK : Bar Sink
CD : Condensate Drain
CE : Cleaning Eye
COS : Clear Out to Surface
CP : Catch Pit
CSP : Cess Pit
Cu : Copper
CW : Cold Water
CWEX : Cold Water Expansion Valve
CWR : Cold Water Riser
DCV : Couble Check Valve
DCW : Domestic Cold Water
DD : Dish Drawer
DF : Drinking Fountain
DHW : Domestic Hot Water
DHWF :Domestic Hot Water Flow
DHWR : Domestic Hot Water Return
DN : Diameter of Pipe - Nominal
DP : Down Pipe
DW : Dish Washer
EX : Existing
F/A : From Above
F/B : From Below
FFL : Finished Floor Level
FGL : Finished Ground Level
FH : Fire Hydrant
FHR :Fire Hose Reel
FWG :Floor Waste Gully
GIT :Grease Interceptor Trap
GV : Group Vent
GVB : Group Vented Branch
GW : Glass Washer
HB : Hand Basin
HCVB : Hose Connection Vacuum Breaker
HDPE : High Density Polyethylene
HR : Hose Reel
HT : Hose Tap (Cold Water)
HW : Hot Water
HWC : Hot Water Cylinder (Electric)
HWD : Hot Water Dropper
HWEX : Hot Water Expansion Valve
HWHT : Hot Water Hose Tap
HWU : Hot Water Unit (Gas)
IB : Inspection Bend
IJ : Inspection Joint
IL : Invert Level
IO : Inspection Opening
IV : Isolating Valve
LS : Line Strainer
LT : Laundary Tub
MDPE : Medium Density Polyethylene
MH : Manhole
MS : Mains Supply
NPCW : Non-Potable Cold Water
NPHW : Non Potable Hot Water
NRV : Non Return Valve
O/F : Over Flow
ORG : Overflow Relief Gulley
OS&Y : Outside Screw and Yoke
PBO : Planter Box Outlet
PE : Polyethylene
PEX : Cross Linked Polyethylene

PLV : Pressure Limiting Valve
PPR : Random Polypropylene
RCP : Reinforced Concrete Pipe
RL : Reduced Level
RP : Rodding Point
RPZ : Reduced Pressure Zone (BFP)
RRJ : Rubber Ring Jointed
RWH : Rain Water Head
RWO : Rain Water Outlet
RWS : Rain Water Sump
SDO : Spoon Drain Outlet
SH : Soak Hole
S : Sanitary Pipe
SK : Sink
SLS : Sluice Sink
SLV : Sluice Valve
S/S : Stainles Steel
SS : Sanitary Sewer
SSMH : Sanitary Sewer Manhole
SU : Stub Up
SV :Stop Valve
SW : Storm Water
SWMH: Storm Water Manhole
T/A : To Above
T/B : To Below
TD : Tundish
TV : Terminal Vent
U/G : Under Ground
UGT : Under Bench Grease Trap
UR : Urinal
V/A : Valve Assembly - See Drawing
VCP :Vitrified Clay Pipe
VHB :Vanity Hand Basin
VP :Vent Pipe
W&T : Waste and Trap
WBU : Water Boiling Unit
WC : Water Closet
WHB : Wash Hand Basin
WM : Washing Machine
WP : Water Pipe
: Unit Entry Direction

MANHOLES

Ø1050 Storm water man hole (SWMH)

Ø1050 Storm water Infil type - Cover and frame

DRAINS AND TRAPS

CD : Condensate Drain

TD : Tundish

GT : Gulley Trap

ORG : Overflow Relief Gulley

GIT : Grease Interceptor Trap

FWG : Channel Drain c/w FWG

: Traps - (Schematics)

: Traps - (Schematics)

FWG : Floor Waste Gulley

FWO : Floor Waste Outlet

RWO : Rain Water Outlet (RWO) / Planter Box Outlet (PBO) / Balcony Outlet (BO) As Noted

CSP1 : 450 x 450 Cess Pit Ø100 Half Siphon Outlet

CSP2 :675 x 450 Cess Pit Ø150 Half Siphon Outlet

OPERATION

: Direction of Flow

FALL:1:100 : Pipe Fall

: Concentric Reducer

: Eccentric Reducer

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1= 1 : 50
Date	26-11-2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

Job Title: LEGEND

Drawing number: H0001

Issue: A

ABBRIVATIONS :-

AAV : Air Admittance Valve
AFFL : Above Finished Floor Level
A/G : Above Ground
B : Bath
BDT : Bidet
BFFL : Below Finished Floor Level
BFP : Back Flow Preventer
BIFO : Blucher Industrial Floor Outlet
BO : Balcony Outlet
BSK : Bar Sink
CD : Condensate Drain
CE : Cleaning Eye
COS : Clear Out to Surface
CP : Catch Pit
CSP : Cess Pit
Cu : Copper
CW : Cold Water
CWEX : Cold Water Expansion Valve
CWR : Cold Water Riser
DCV : Couble Check Valve
DCW : Domestic Cold Water
DD : Dish Drawer
DF : Drinking Fountain
DHW : Domestic Hot Water
DHWF :Domestic Hot Water Flow
DHWR : Domestic Hot Water Return
DN : Diameter of Pipe - Nominal
DP : Down Pipe
DW : Dish Washer
EX : Existing
F/A : From Above
F/B : From Below
FFL : Finished Floor Level
FGL : Finished Ground Level
FH : Fire Hydrant
FHR :Fire Hose Reel
FWG :Floor Waste Gully
GIT :Grease Interceptor Trap
GV : Group Vent
GVB : Group Vented Branch
GW : Glass Washer
HB : Hand Basin
HCVB : Hose Connection Vacuum Breaker
HDPE : High Density Polyethylene
HR : Hose Reel
HT : Hose Tap (Cold Water)
HW : Hot Water
HWC : Hot Water Cylinder (Electric)
HWD : Hot Water Dropper
HWEX : Hot Water Expansion Valve
HWHT : Hot Water Hose Tap
HWU : Hot Water Unit (Gas)
IB : Inspection Bend
IJ : Inspection Joint
IL : Invert Level
IO : Inspection Opening
IV : Isolating Valve
LS : Line Strainer
LT : Laundary Tub
MDPE : Medium Density Polyethylene
MH : Manhole
MS : Mains Supply
NPCW : Non-Potable Cold Water
NPHW : Non Potable Hot Water
NRV : Non Return Valve
O/F : Over Flow
ORG : Overflow Relief Gulley
OS&Y : Outside Screw and Yoke
PBO : Planter Box Outlet
PE : Polyethylene
PEX : Cross Linked Polyethylene

PLV : Pressure Limiting Valve
PPR : Random Polypropylene
RCP : Reinforced Concrete Pipe
RL : Reduced Level
RP : Rodding Point
RPZ : Reduced Pressure Zone (BFP)
RRJ : Rubber Ring Jointed
RWH : Rain Water Head
RWO : Rain Water Outlet
RWS : Rain Water Sump
SDO : Spoon Drain Outlet
SH : Soak Hole
S : Sanitary Pipe
SK : Sink
SLS : Sluice Sink
SLV : Sluice Valve
S/S : Stainles Steel
SS : Sanitary Sewer
SSMH : Sanitary Sewer Manhole
SU : Stub Up
SV :Stop Valve
SW : Storm Water
SWMH: Storm Water Manhole
T/A : To Above
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TD : Tundish
TV : Terminal Vent
U/G : Under Ground
UGT : Under Bench Grease Trap
UR : Urinal
V/A : Valve Assembly - See Drawing
VCP :Vitrified Clay Pipe
VHB :Vanity Hand Basin
VP :Vent Pipe
W&T : Waste and Trap
WBU : Water Boiling Unit
WC : Water Closet
WHB : Wash Hand Basin
WM : Washing Machine
WP : Water Pipe

: Unit Entry Direction

DRAINS AND TRAPS

CD : Condensate Drain

TD : Tundish

GT : Gulley Trap

ORG : Overflow Relief Gulley

GIT : Grease Interceptor Trap

FWG : Channel Drain c/w FWG

: Traps - (Schematics)

: Traps - (Schematics)

FWG : Floor Waste Gulley

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RWO : Rain Water Outlet (RWO) / Planter Box Outlet (PBO) / Balcony Outlet (BO) As Noted

CSP1 : 450 x 450 Cess Pit Ø100 Half Siphon Outlet

CSP2 :675 x 450 Cess Pit Ø150 Half Siphon Outlet

OPERATION

: Direction of Flow

FALL:1:100 : Pipe Fall

: Concentric Reducer

: Eccentric Reducer

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL	

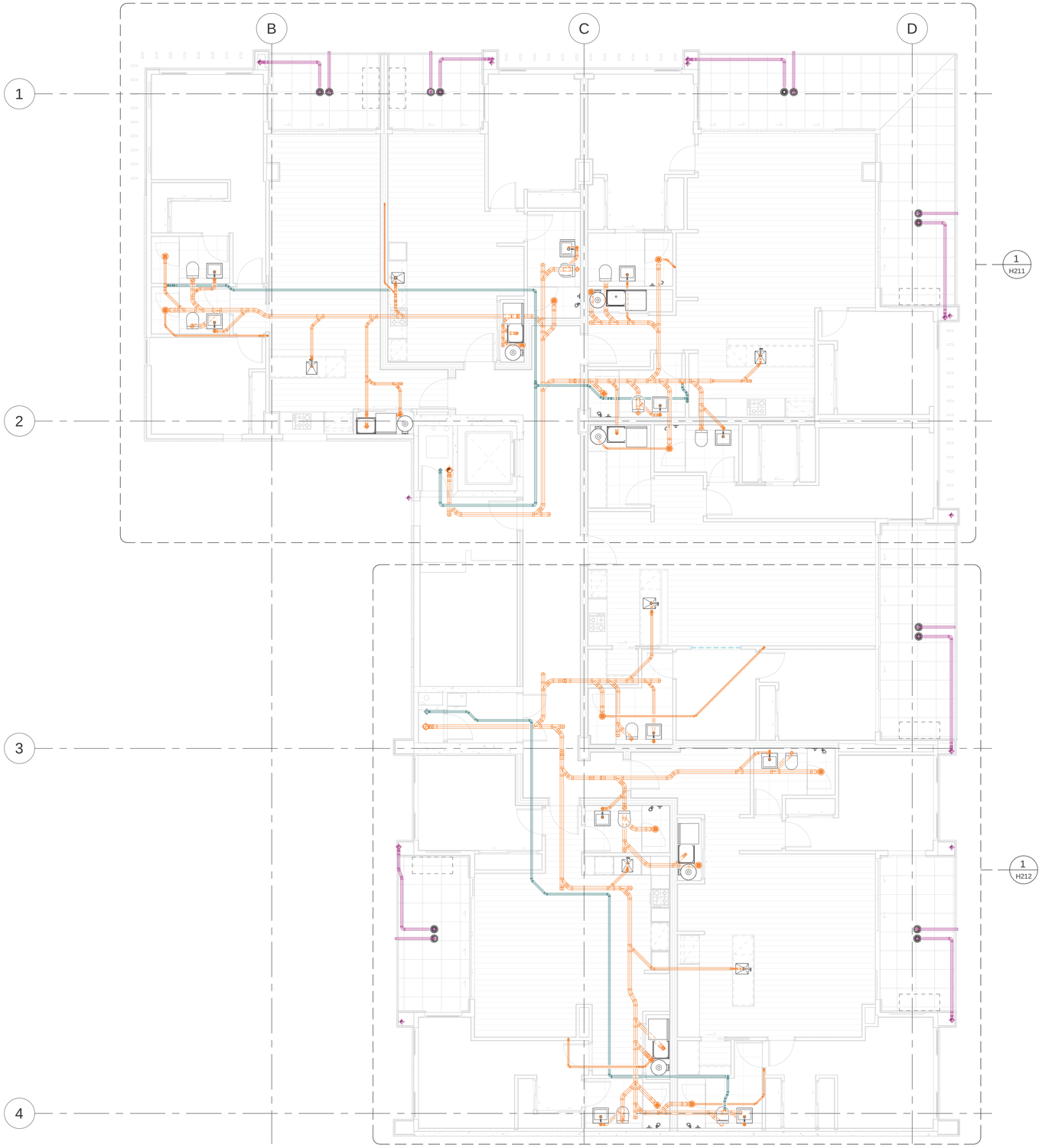
Scale	A1= 1 : 50
Date	26-11-2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

Job Title: LEGEND

Drawing number: H001

Issue: A



1 / H201A LEVEL 2 HIGH LEVEL SANITARY LAYOUT

1 : 75

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

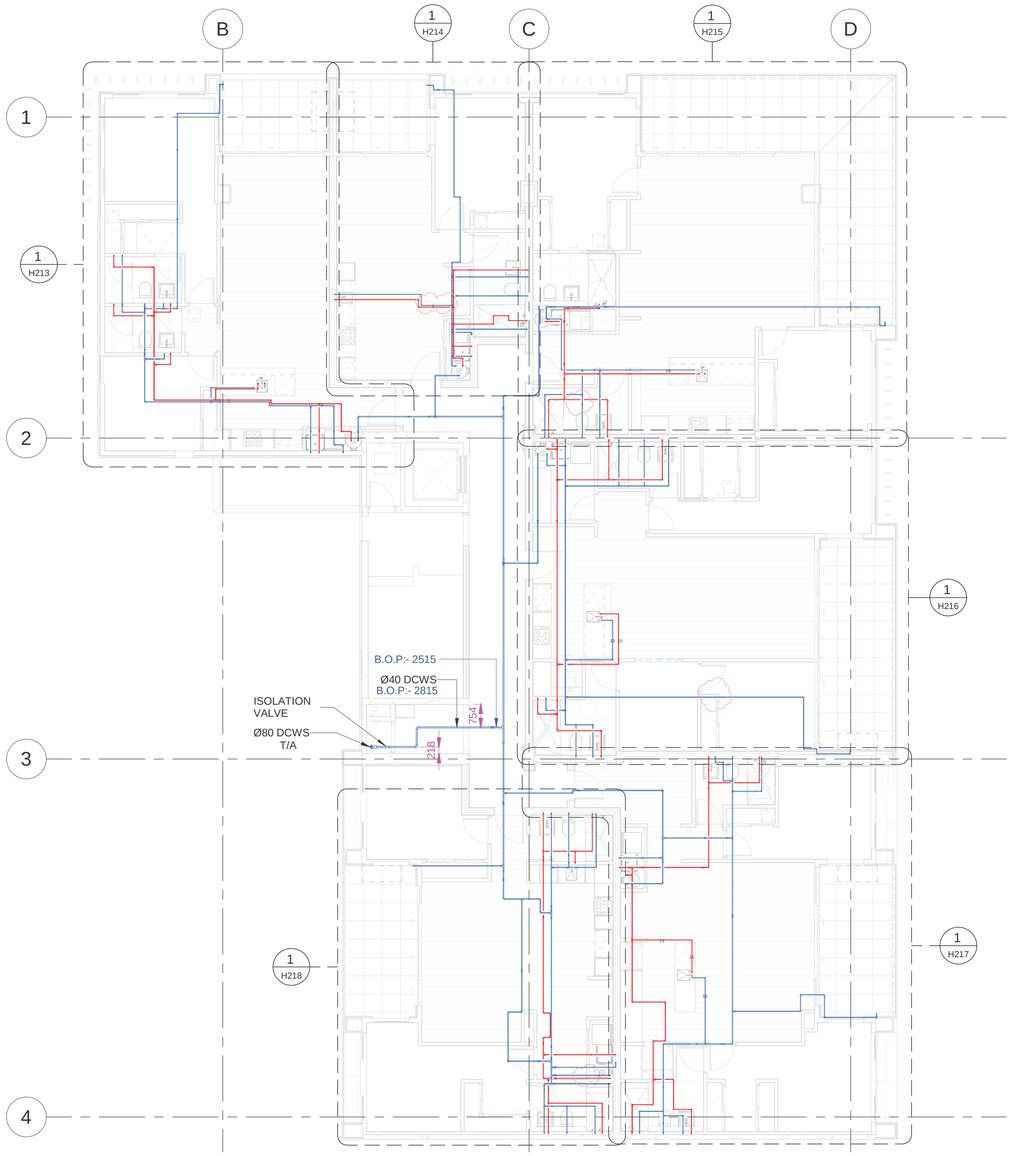
Scale	A1= 1 : 75
Date	28-11-2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

Job Title: LEVEL 2 HIGH LEVEL SANITARY LAYOUT

Drawing number: H201A

Issue: A



1 / H201B LEVEL 2 WATER RETICULATION LAYOUT

1 : 100

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

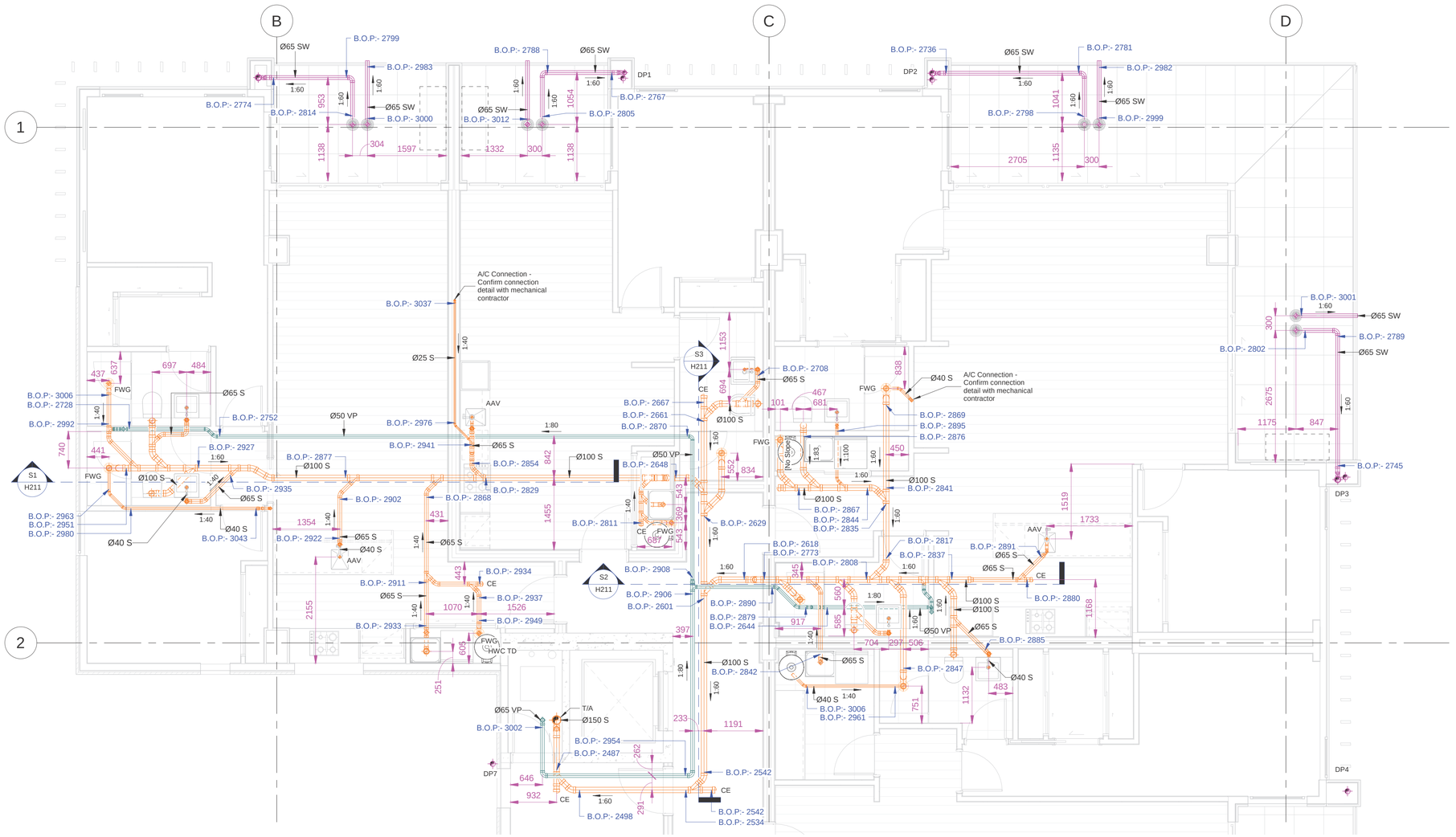
Scale	A1= 1 : 100
Date	28-11-2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

Job Title: LEVEL 2 WATER RETICULATION LAYOUT

Drawing number: H201B

Issue: A



Sanitary Pipe Segment :- PVC - C 727-2				
Sr. No.	Nominal Pipe Diameter	Inside Diameter	Out Side Diameter	Penetration Diameter
1	40	40	50	80
2	50	50	63	80
3	65	65	75	100
4	80	80	90	-
5	100	100	110	130
NOTES :- Above schedule for outside pipe penetration consider for Level 1 & Level 2				

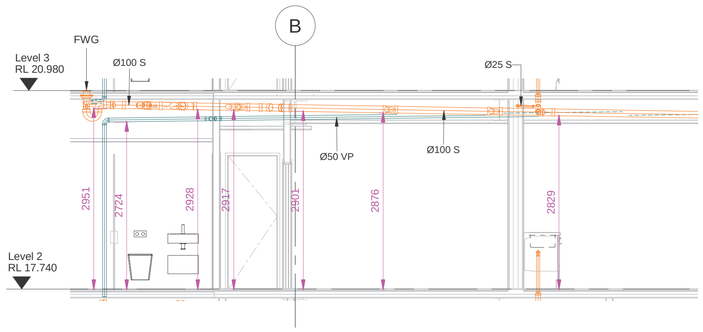
SANITARY NOTES:

1. All pipework above ground in noise sensitive areas to be triplus acoustic rated pipes and fittings.
2. All shower waste to be fitted with slimline channel waste as per specification.
3. All AAV's to be studor mini type.
4. All pipework along basement wall to be cantilevered on unistrut cantilevered brackets
5. All stacks to be compliant with ASNZS/3500 fully vented modified system.

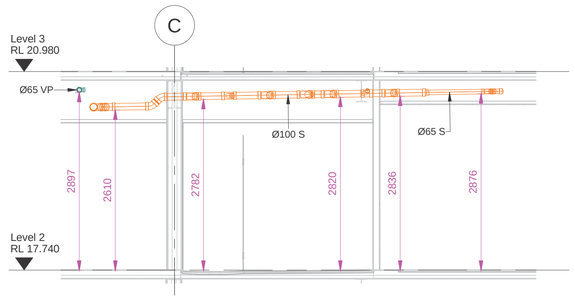
GENERAL NOTES:

- Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
- All the pipes level reference with their respective structural floor consider as +0.00
- All the sanitary pipes segment is PVC-C - 727-2. Refer the above pipe sizes table for more clarity.

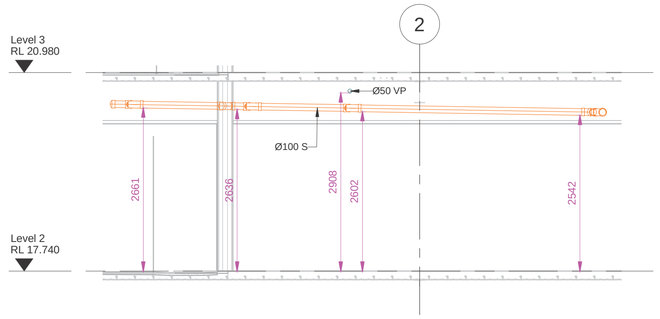
1 / H211 LEVEL 2 HIGH LEVEL SANITARY LAYOUT PART 1
1 : 50



S1 / H211 SECTION L2-S1
1 : 50



S2 / H211 SECTION L2-S2
1 : 50



S3 / H211 SECTION L2-S3
1 : 50

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

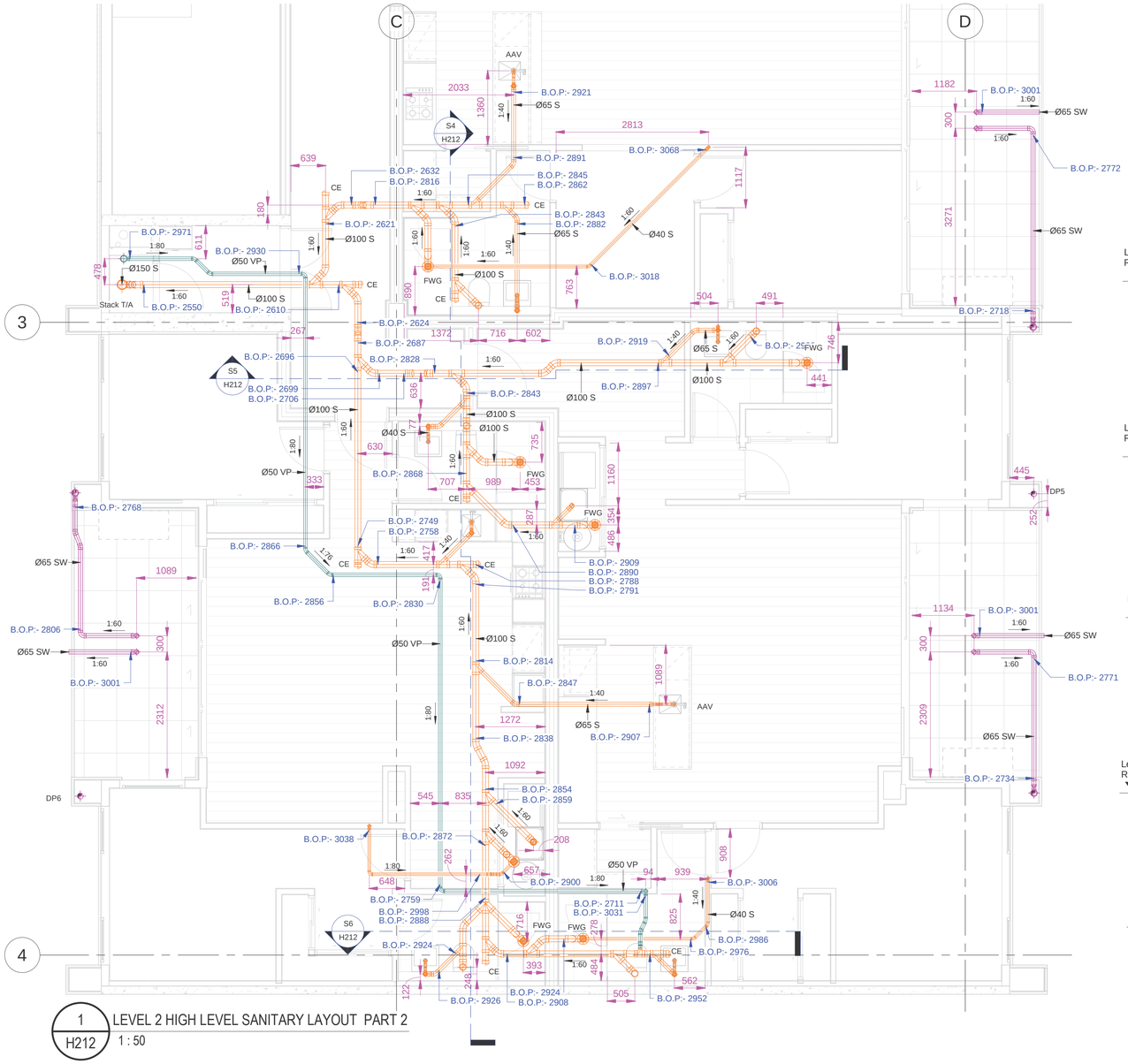
Scale	A1= 1 : 50
Date	28-11-2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments, 8-10 Park Street

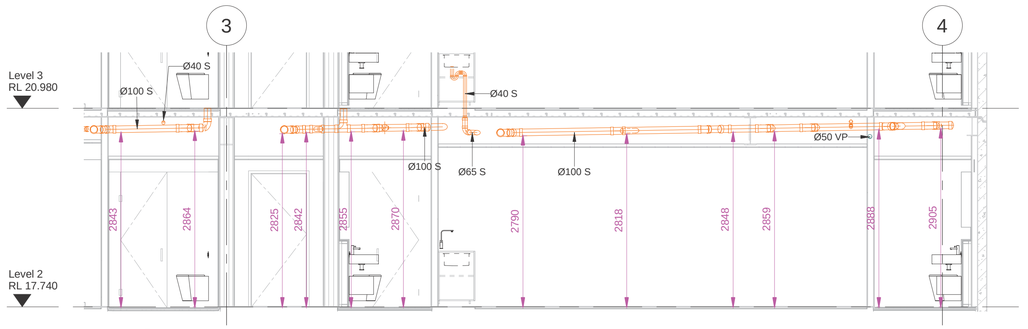
Job Title: LEVEL 2 HIGH LEVEL SANITARY LAYOUT PART 1 & SECTIONS

Drawing number: H211

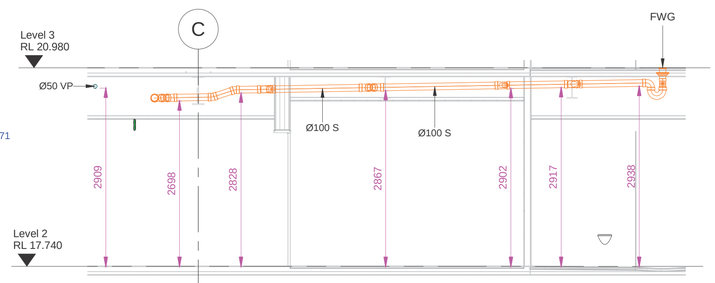
Issue: A



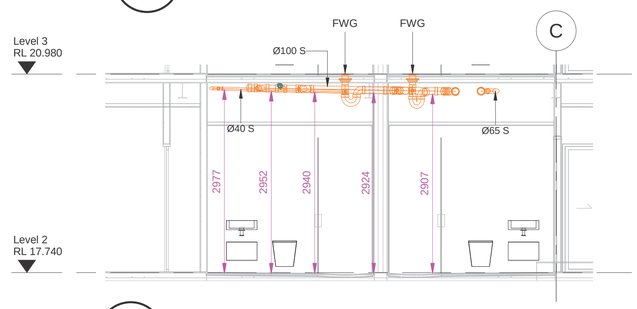
1 / H212 LEVEL 2 HIGH LEVEL SANITARY LAYOUT PART 2
1 : 50



S4 / H212 SECTION L2-S4
1 : 50



S5 / H212 SECTION L2-S5
1 : 50



S6 / H212 SECTION L2-S6
1 : 50

Sanitary Pipe Segment :- PVC - C 727-2				
Sr. No.	Nominal Pipe Diameter	Inside Diameter	Out Side Diameter	Penetration Diameter
1	40	40	50	80
2	50	50	63	80
3	65	65	75	100
4	80	80	90	-
5	100	100	110	130
NOTES :- Above schedule for outside pipe penetration consider for Level 1 & Level 2				

SANITARY NOTES:

1. All pipework above ground in noise sensitive areas to be triplus acoustic rated pipes and fittings.
2. All shower waste to be fitted with slimline channel waste as per specification.
3. All AAV's to be studor mini type.
4. All pipework along basement wall to be cantilevered on unistrut cantilevered brackets
5. All stacks to be compliant with ASNZS/3500 fully vented modified system.

GENERAL NOTES:

- Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
- All the pipes level reference with their respective structural floor consider as +0.00
- All the sanitary pipes segment is PVC-C - 727-2. Refer the above pipe sizes table for more clarity.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

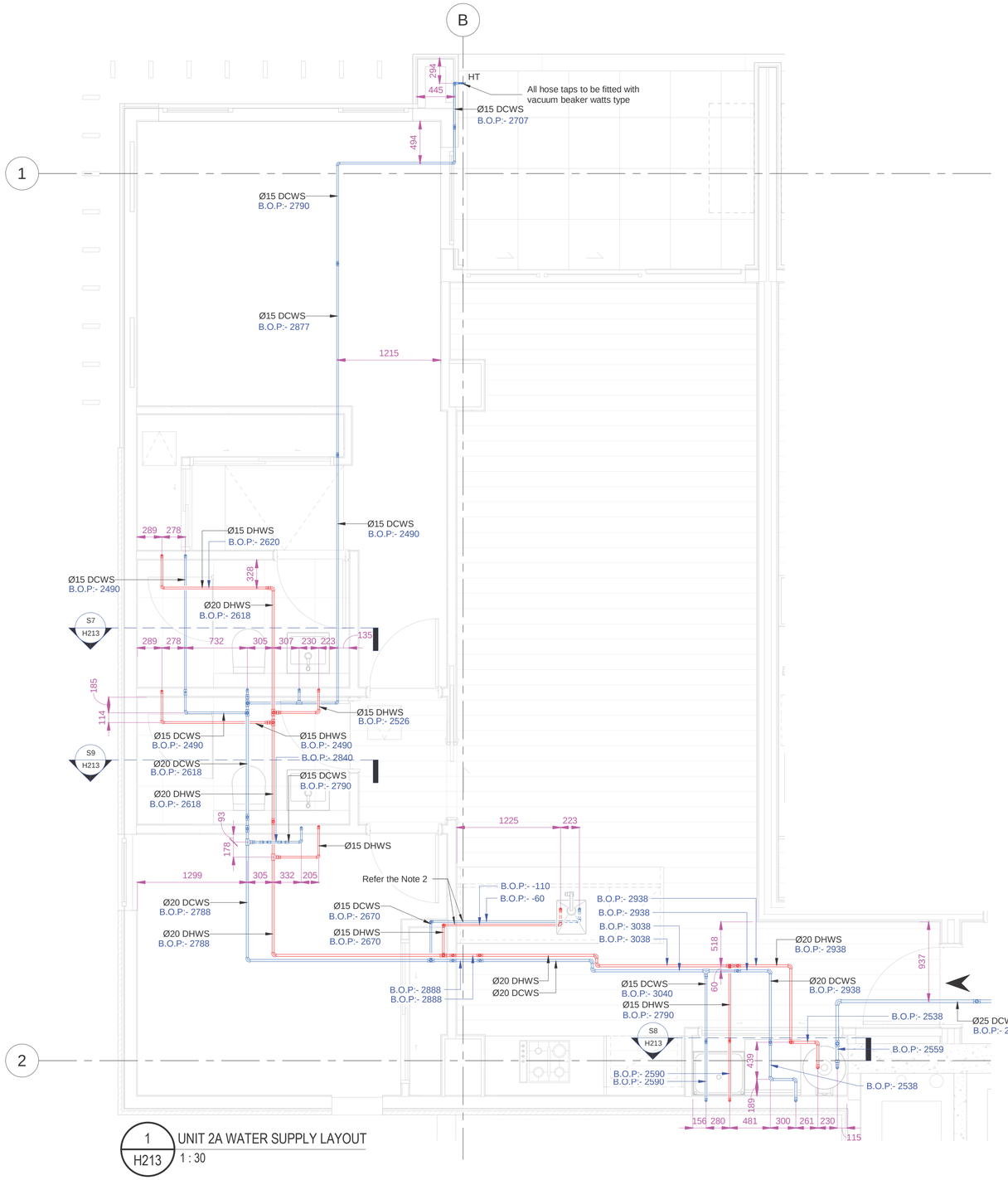
Scale	A1= 1 : 50
Date	28-11-2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

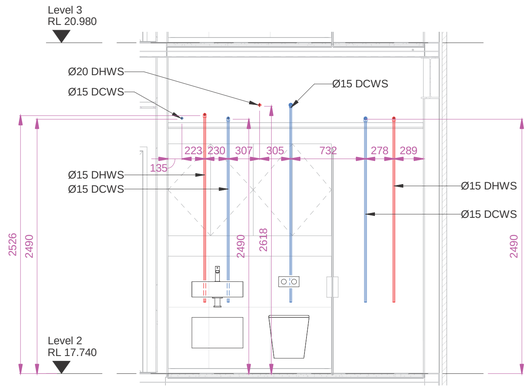
Job Title: LEVEL 2 HIGH LEVEL SANITARY LAYOUT PART 2 & SECTIONS

Drawing number: H212

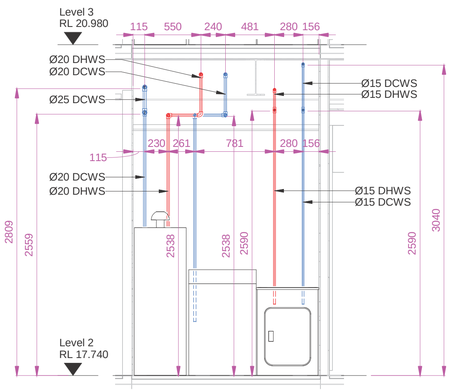
Issue: A



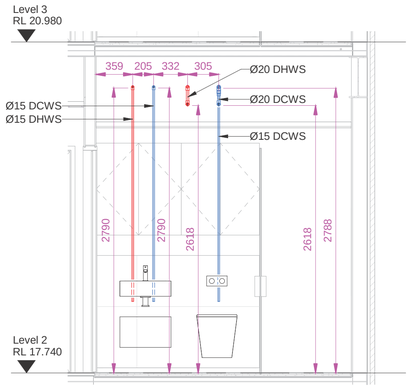
1 / H213 UNIT 2A WATER SUPPLY LAYOUT
1 : 30



S7 / H213 SECTION L2-S7
1 : 30



S8 / H213 SECTION L2-S8
1 : 30



S9 / H213 SECTION L2-S9
1 : 30

WATER NOTES:

Pipework Installation
- All pipes must be kept as close as possible to the underside of the slab over. Do not install a pipe hanging 300mm below the slab if that same pipe can be installed 50mm below the slab.
- All pipes shall be installed, as applicable, to be straight, trues, level, plumb and parallel.

Water Reticulation
- All pipework shown as DN 25 and above shall be PPR 80 and the figures shown indicate internal diameter. Use minimum pipe strength of PN 9 for cold water and PN 16 for hot water. Fixing centes shall not exceed 20 times the pipe diameter.

Pipework Reticulation
- Use DN 15 Kembla pex tosupply single fixture to a maximum length of 3m. (Use DN 20 Kembla pex for lengths greater than 3m.) Use DN20 Kembla pex to supply two or more fixtures.

HT
- DN 15 Lockshield hose tap fixed on wall 750mm off affl. Provide Watts bhcv vacuum break to tap outlet. Fix to wall with dynabolts, do not use nylon fastners.

GENERAL NOTES:

1. Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
2. Pex Pipes embeded into the tie slab.
3. All the pipes level referance with their respective structural floor consider as +0.00.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

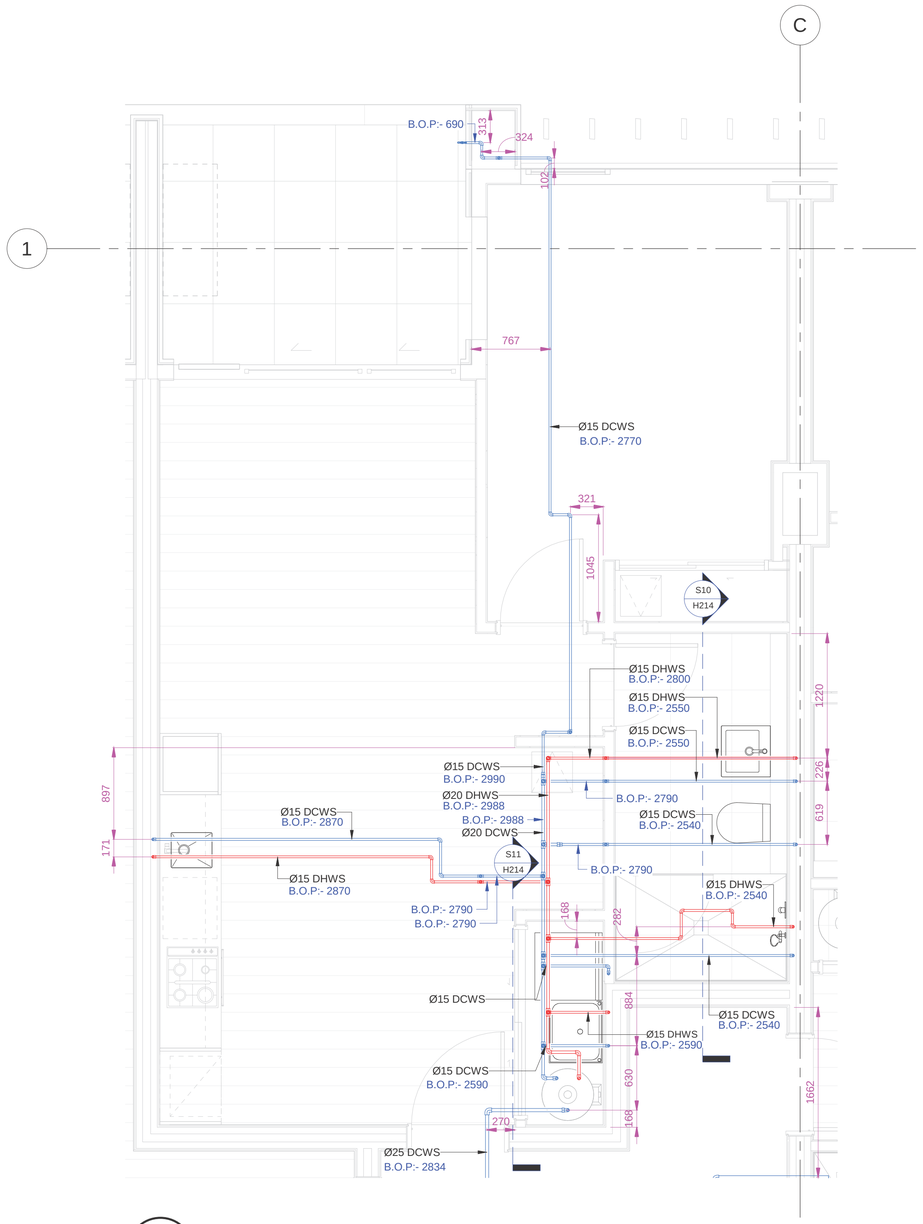
Scale	A1= As indicated
Date	28-11-2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments, 8-10 Park Street

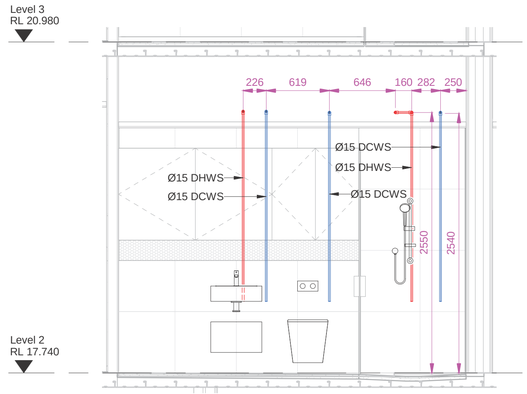
Job Title: UNIT 2A WATER SUPPLY LAYOUT

Drawing number: H213

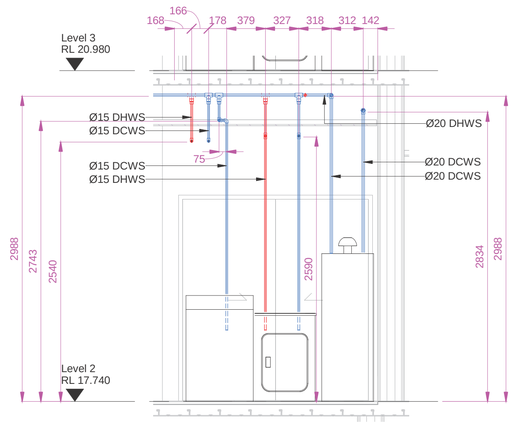
Issue: A



1 / H214 UNIT 2B WATER SUPPLY LAYOUT
1 : 30



S10 / H214 SECTION L2-S10
1 : 30



S11 / H214 SECTION L2-S11
1 : 30

WATER NOTES:

Pipework Installation
- All pipes must be kept as close as possible to the underside of the slab over. Do not install a pipe hanging 300mm below the slab if that same pipe can be installed 50mm below the slab.
- All pipes shall be installed, as applicable, to be straight, trues, level, plumb and parallel.

Water Reticulation
- All pipework shown as DN 25 and above shall be PPR 80 and the figures shown indicate internal diameter. Use minimum pipe strength of PN 9 for cold water and PN 16 for hot water. Fixing centes shall not exceed 20 times the pipe diameter.

Pipework Reticulation
- Use DN 15 Kembla pex tosupply single fixture to a maximum length of 3m. (Use DN 20 Kembla pex for lengths greater than 3m.)
  Use DN20 Kembla pex to supply two or more fixtures.

HT
- DN 15 Lockshield hose tap fixed on wall 750mm off affl. Provide Watts bhcv vacuum break to tap outlet. Fix to wall with dynabolts, do not use nylon fastners.

GENERAL NOTES:

1. Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
2. Pex Pipes embeded into the slab.
3. All the pipes level referance with their respective structural floor consider as +0.00.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

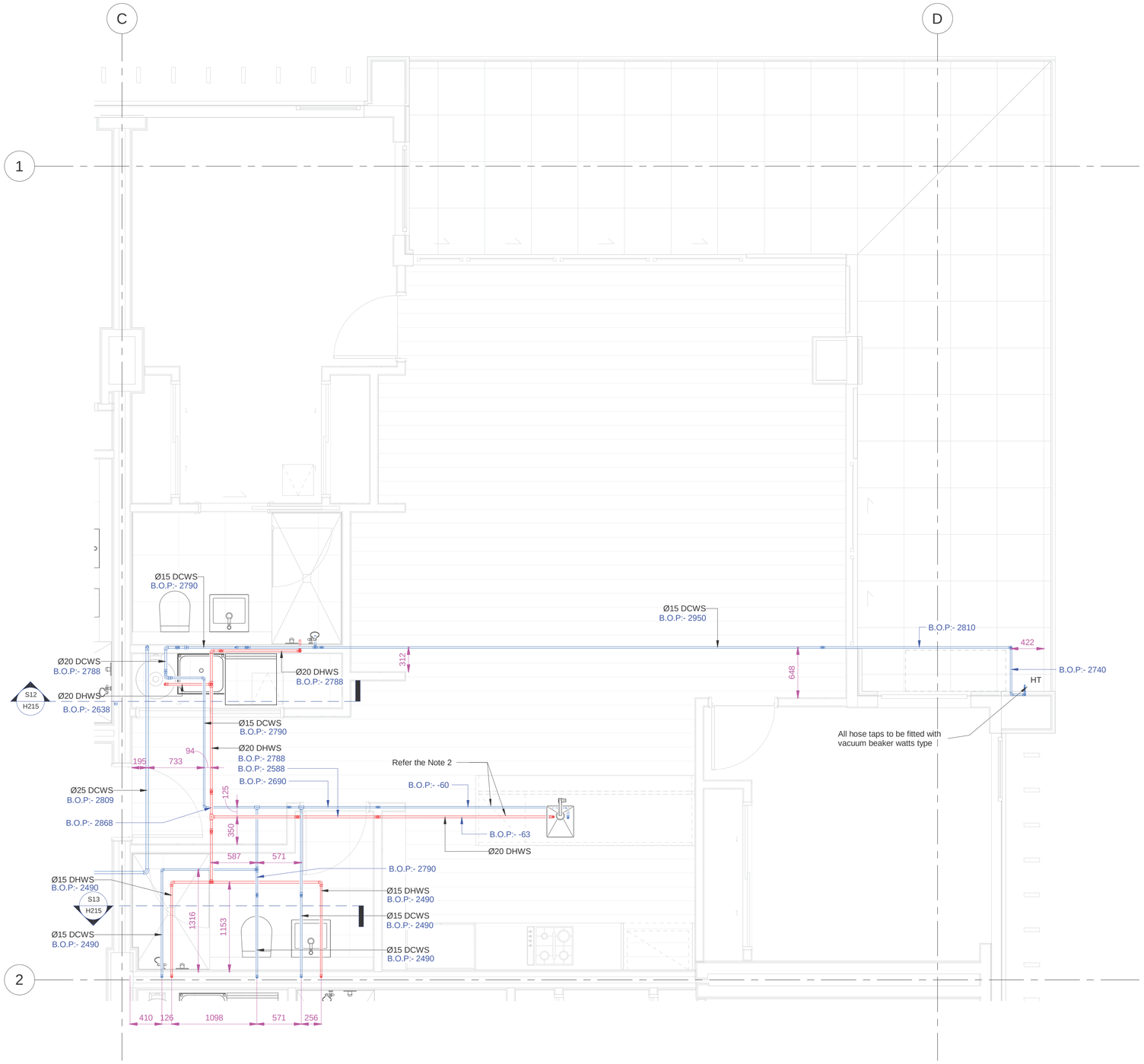
Scale	A1= As indicated
Date	28-11-2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments, 8-10 Park Street

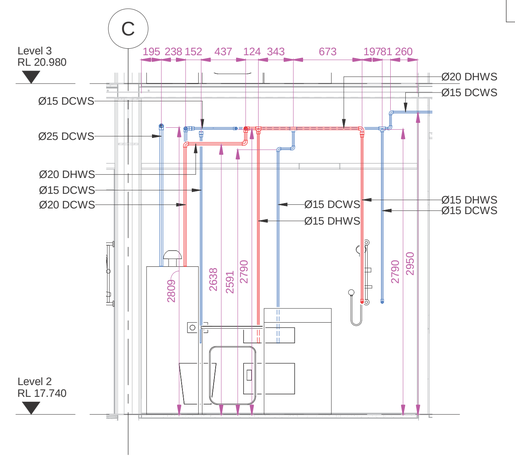
Job Title: UNIT 2B WATER SUPPLY LAYOUT

Drawing number: H214

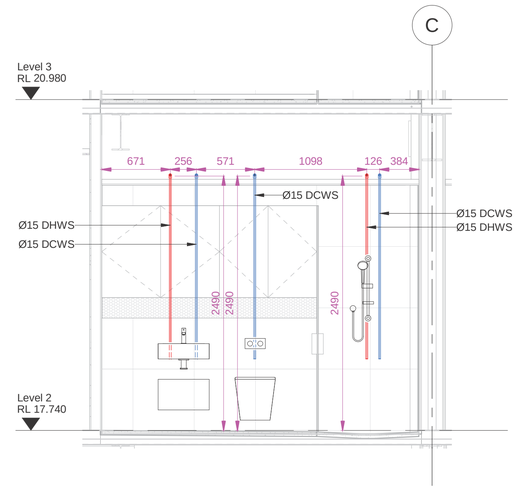
Issue: A



1 / H215 UNIT 2C WATER SUPPLY LAYOUT
1 : 30



S12 / H215 SECTION L2-S12
1 : 30



S13 / H215 SECTION L2-S13
1 : 30

WATER NOTES:

Pipework Installation
- All pipes must be kept as close as possible to the underside of the slab over. Do not install a pipe hanging 300mm below the slab if that same pipe can be installed 50mm below the slab.
- All pipes shall be installed, as applicable, to be straight, trues, level, plumb and parallel.

Water Reticulation
- All pipework shown as DN 25 and above shall be PPR 80 and the figures shown indicate internal diameter. Use minimum pipe strength of PN 9 for cold water and PN 16 for hot water. Fixing centes shall not exceed 20 times the pipe diameter.

Pipework Reticulation
- Use DN 15 Kembla pex tosupply single fixture to a maximum length of 3m. (Use DN 20 Kembla pex for lengths greater than 3m.)
  Use DN20 Kembla pex to supply two or more fixtures.

HT
- DN 15 Lockshield hose tap fixed on wall 750mm off affl. Provide Watts bhcv vacuum break to tap outlet. Fix to wall with dynabolts, do not use nylon fastners.

GENERAL NOTES:

1. Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
2. Pex Pipes embeded into the slab.
3. All the pipes level referance with their respective structural floor consider as +0.00.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

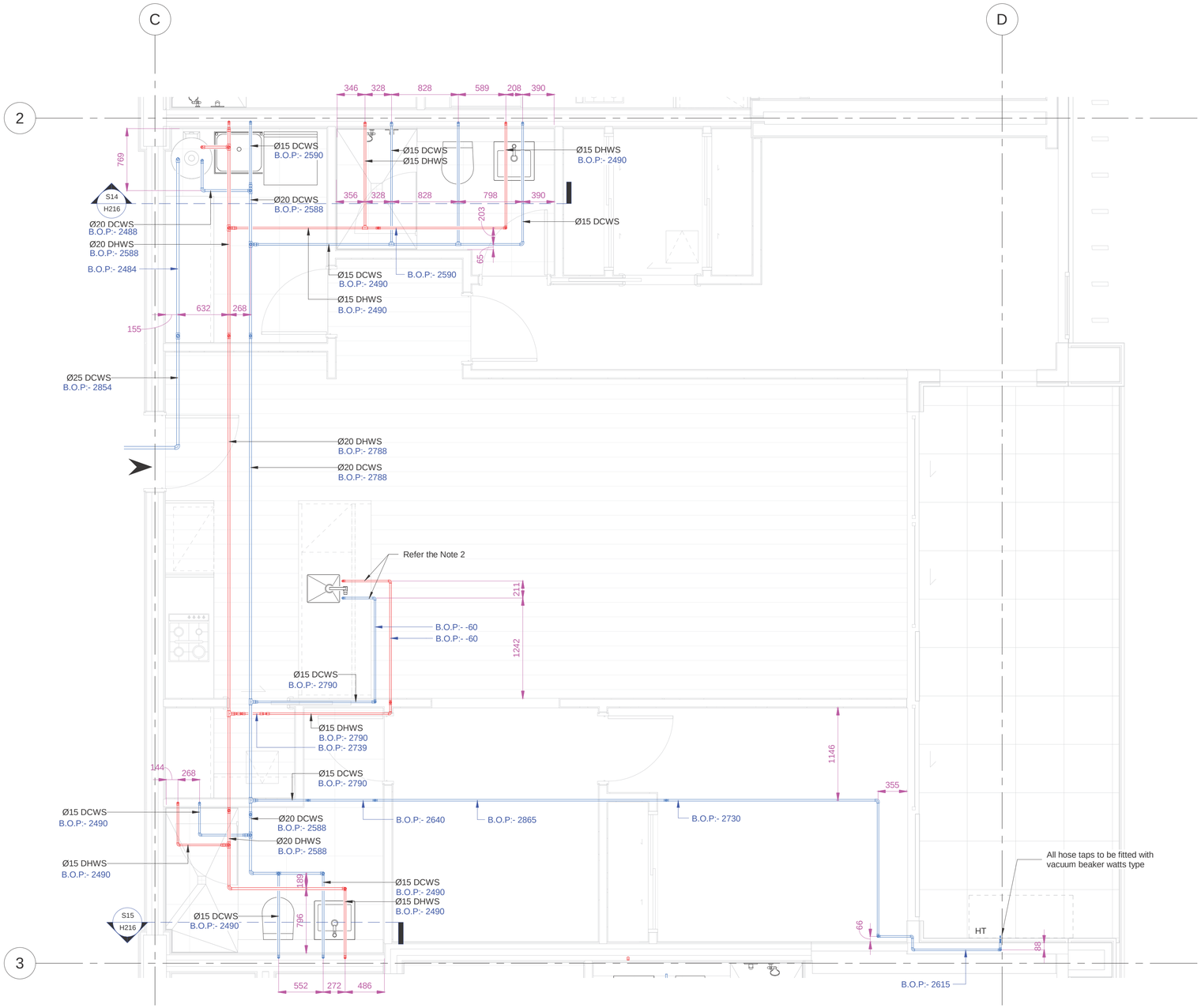
Scale	A1= As indicated
Date	28-11-2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

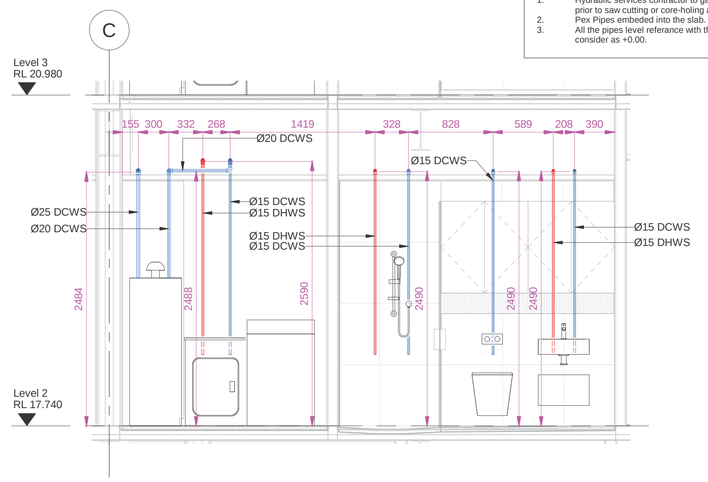
Job Title: UNIT 2C WATER SUPPLY LAYOUT

Drawing number: H215

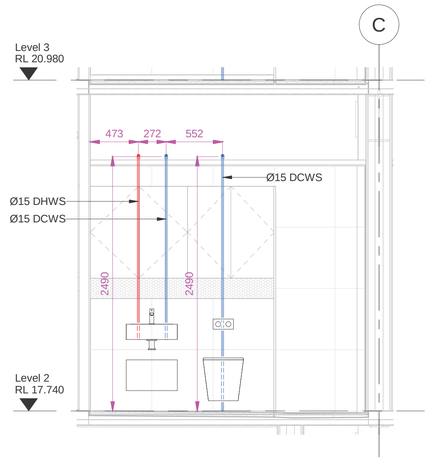
Issue: A



1 / H216 UNIT 2D WATER SUPPLY LAYOUT
1 : 30



S14 / H216 SECTION L2-S14
1 : 30



S15 / H216 SECTION L2-S15
1 : 30

WATER NOTES:

Pipework Installation
- All pipes must be kept as close as possible to the underside of the slab over. Do not install a pipe hanging 300mm below the slab if that same pipe can be installed 50mm below the slab.
- All pipes shall be installed, as applicable, to be straight, trues, level, plumb and parallel.

Water Reticulation
- All pipework shown as DN 25 and above shall be PPR 80 and the figures shown indicate internal diameter. Use minimum pipe strength of PN 9 for cold water and PN 16 for hot water. Fixing centes shall not exceed 20 times the pipe diameter.

Pipework Reticulation
- Use DN 15 Kembla pex tosupply single fixture to a maximum length of 3m. (Use DN 20 Kembla pex for lengths greater than 3m.)
  Use DN20 Kembla pex to supply two or more fixtures.

HT
- DN 15 Lockshield hose tap fixed on wall 750mm off affl. Provide Watts bhcv vacuum break to tap outlet. Fix to wall with dynabolts, do not use nylon fastners.

GENERAL NOTES:

1. Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
2. Pex Pipes embeded into the slab.
3. All the pipes level referance with their respective structural floor consider as +0.00.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

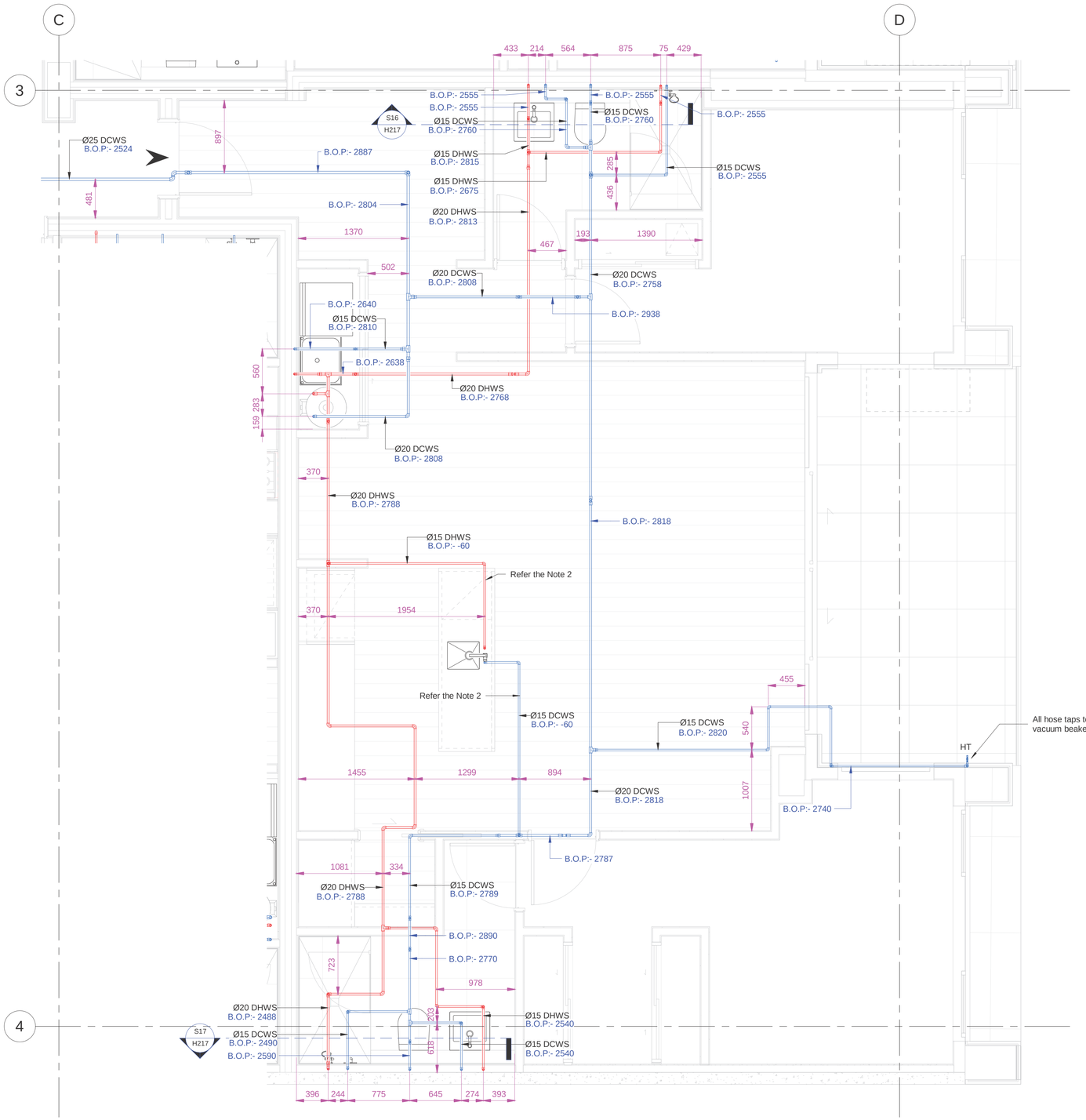
Scale	A1= As indicated
Date	28-11-2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments, 8-10 Park Street

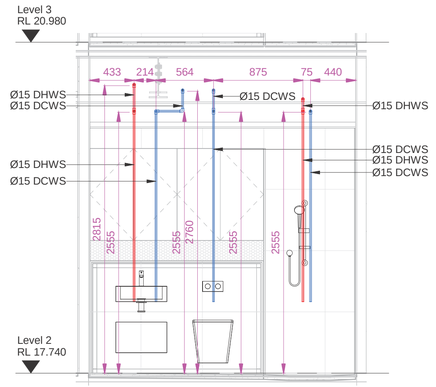
Job Title: UNIT 2D WATER SUPPLY LAYOUT

Drawing number: H216

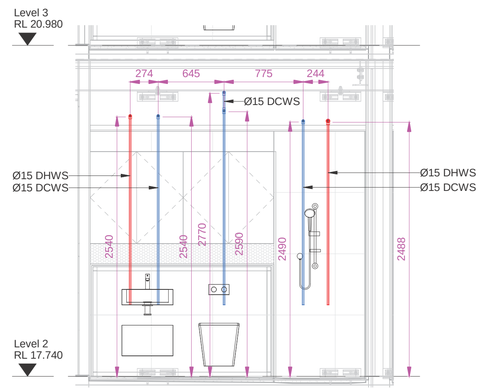
Issue: A



1 / H217 — UNIT 2E WATER SUPPLY LAYOUT
1 : 30



S16 / H217 — SECTION L2-S16
1 : 30



S17 / H217 — SECTION L2-S17
1 : 30

WATER NOTES:

Pipework Installation
- All pipes must be kept as close as possible to the underside of the slab over. Do not install a pipe hanging 300mm below the slab if that same pipe can be installed 50mm below the slab.
- All pipes shall be installed, as applicable, to be straight, trues, level, plumb and parallel.

Water Reticulation
- All pipework shown as DN 25 and above shall be PPR 80 and the figures shown indicate internal diameter. Use minimum pipe strength of PN 9 for cold water and PN 16 for hot water. Fixing centes shall not exceed 20 times the pipe diameter.

Pipework Reticulation
- Use DN 15 Kembla pex tosupply single fixture to a maximum length of 3m. (Use DN 20 Kembla pex for lengths greater than 3m.)
  Use DN20 Kembla pex to supply two or more fixtures.

HT
- DN 15 Lockshield hose tap fixed on wall 750mm off affl. Provide Watts bhcv vacuum break to tap outlet. Fix to wall with dynabolts, do not use nylon fastners.

GENERAL NOTES:

1. Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
2. Pex Pipes embeded into the slab.
3. All the pipes level referance with their respective structural floor consider as +0.00.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

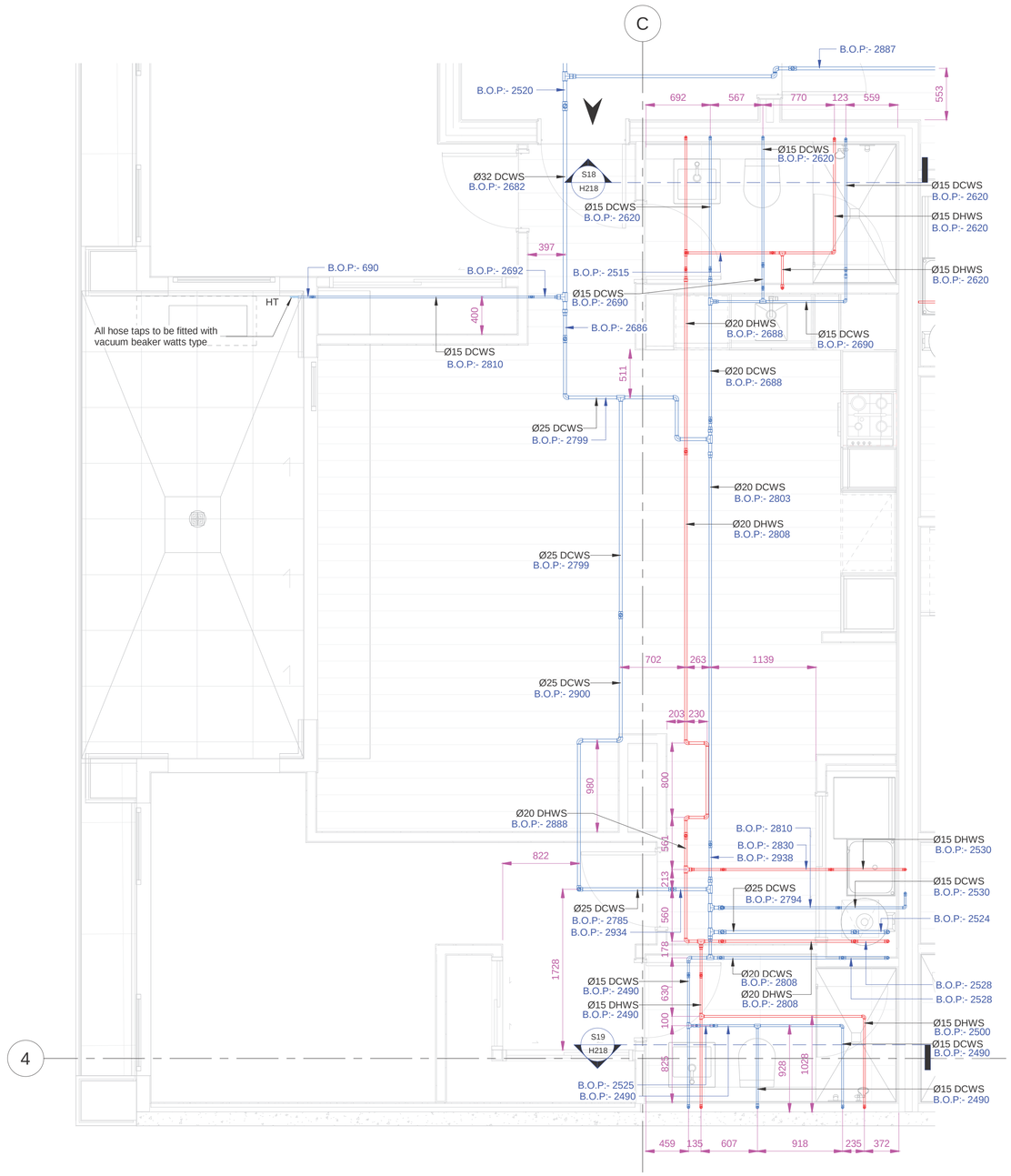
Scale	A1= As indicated
Date	28-11-2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

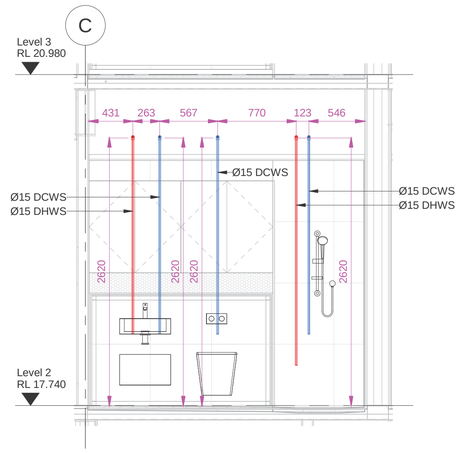
Job Title: UNIT 2E WATER SUPPLY LAYOUT

Drawing number: H217

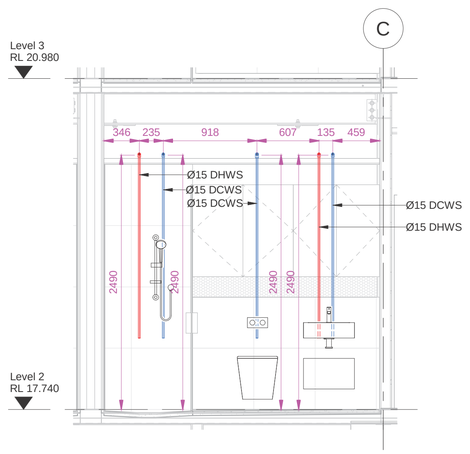
Issue: A



1 / H218 UNIT 2F WATER SUPPLY LAYOUT
1 : 30



S18 / H218 SECTION L2-S18
1 : 30



S19 / H218 SECTION L2-S19
1 : 30

WATER NOTES:

Pipework Installation

- All pipes must be kept as close as possible to the underside of the slab over. Do not install a pipe hanging 300mm below the slab if that same pipe can be installed 50mm below the slab.
- All pipes shall be installed, as applicable, to be straight, trues, level, plumb and parallel.

Water Reticulation

- All pipework shown as DN 25 and above shall be PPR 80 and the figures shown indicate internal diameter. Use minimum pipe strength of PN 9 for cold water and PN 16 for hot water. Fixing centes shall not exceed 20 times the pipe diameter.

Pipework Reticulation

- Use DN 15 Kembla pex tosupply single fixture to a maximum length of 3m. (Use DN 20 Kembla pex for lengths greater than 3m.)
  Use DN20 Kembla pex to supply two or more fixtures.

HT

- DN 15 Lockshield hose tap fixed on wall 750mm off affl. Provide Watts bhcv vacuum break to tap outlet. Fix to wall with dynabolts, do not use nylon fastners.

GENERAL NOTES:

1. Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
2. Pex Pipes embeded into the slab.
3. All the pipes level reference with their respective structural floor consider as +0.00.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1= As indicated
Date	28-11-2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

Job Title: UNIT 2F WATER SUPPLY LAYOUT

Drawing number: H218

Issue: A

SHEET LIST

SHEET NUMBER	SHEET NAME	REVISION	REVISION DATE	CURRENT REVISION DESCRIPTION
H000	COVER PAGE & SHEET LIST	C	30-11-18	LEVEL 3 SHOP DRAWINGS ADDED
H001	LEGEND	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H101A	LEVEL 1 HIGH LEVEL SANITARY SERVICES LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H101B	LEVEL 1 WATER RETICULATION LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H111	LEVEL 1 HIGH LEVEL SANITARY LAYOUT PART 1 & SECTIONS	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H112	LEVEL 1 HIGH LEVEL SANITARY LAYOUT PART 2 & SECTIONS	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H113	UNIT 1A WATER SUPPLY LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H114	UNIT 1B WATER SUPPLY LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H115	UNIT 1C WATER SUPPLY LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H116	UNIT 1D WATER SUPPLY LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H201A	LEVEL 2 HIGH LEVEL SANITARY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H201B	LEVEL 2 WATER RETICULATION LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H211	LEVEL 2 HIGH LEVEL SANITARY LAYOUT PART 1 & SECTIONS	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H212	LEVEL 2 HIGH LEVEL SANITARY LAYOUT PART 2 & SECTIONS	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H213	UNIT 2A WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H214	UNIT 2B WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H215	UNIT 2C WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H216	UNIT 2D WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H217	UNIT 2E WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H218	UNIT 2F WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H301A	LEVEL 3 HIGH LEVEL SANITARY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H301B	LEVEL 3 WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H311	LEVEL 3 HIGH LEVEL SANITARY LAYOUT - PART 1	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H312	LEVEL 3 HIGH LEVEL SANITARY LAYOUT - PART 2	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H313	LEVEL 3 HIGH LEVEL SANITARY SECTION	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H314	UNIT 3A WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H315	UNIT 3B WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H316	UNIT 3C WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H317	UNIT 3D WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H318	UNIT 3E WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H319	UNIT 3F WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL

C

PORJECT NAME : LATITUDE APARTMENTS

PORJECT NO. : FBB1090

HYDRAULIC SERVICES

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
C	30-11-18	LEVEL 3 SHOP DRAWINGS ADDED	
B	29-11-18	LEVEL 2 SHOP DRAWINGS ADDED	
A	26-11-18	LEVEL 1 SHOP DRAWINGS ADDED	

Scale	A1=
Date	26/11/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

Job Title: COVER PAGE & SHEET LIST

Drawing number: H000

Issue: C

ABBRIVATIONS :-

AAV : Air Admittance Valve
AFFL : Above Finished Floor Level
A/G : Above Ground
B : Bath
BDT : Bidet
BFFL : Below Finished Floor Level
BFP : Back Flow Preventer
BIFO : Blucher Industrial Floor Outlet
BO : Balcony Outlet
BSK : Bar Sink
CD : Condensate Drain
CE : Cleaning Eye
COS : Clear Out to Surface
CP : Catch Pit
CSP : Cess Pit
Cu : Copper
CW : Cold Water
CWEX : Cold Water Expansion Valve
CWR : Cold Water Riser
DCV : Couble Check Valve
DCW : Domestic Cold Water
DD : Dish Drawer
DF : Drinking Fountain
DHW : Domestic Hot Water
DHWF :Domestic Hot Water Flow
DHWR : Domestic Hot Water Return
DN : Diameter of Pipe - Nominal
DP : Down Pipe
DW : Dish Washer
EX : Existing
F/A : From Above
F/B : From Below
FFL : Finished Floor Level
FGL : Finished Ground Level
FH : Fire Hydrant
FHR :Fire Hose Reel
FWG :Floor Waste Gully
GIT :Grease Interceptor Trap
GV : Group Vent
GVB : Group Vented Branch
GW : Glass Washer
HB : Hand Basin
HCVB : Hose Connection Vacuum Breaker
HDPE : High Density Polyethylene
HR : Hose Reel
HT : Hose Tap (Cold Water)
HW : Hot Water
HWC : Hot Water Cylinder (Electric)
HWD : Hot Water Dropper
HWEX : Hot Water Expansion Valve
HWHT : Hot Water Hose Tap
HWU : Hot Water Unit (Gas)
IB : Inspection Bend
IJ : Inspection Joint
IL : Invert Level
IO : Inspection Opening
IV : Isolating Valve
LS : Line Strainer
LT : Laundary Tub
MDPE : Medium Density Polyethylene
MH : Manhole
MS : Mains Supply
NPCW : Non-Potable Cold Water
NPHW : Non Potable Hot Water
NRV : Non Return Valve
O/F : Over Flow
ORG : Overflow Relief Gulley
OS&Y : Outside Screw and Yoke
PBO : Planter Box Outlet
PE : Polyethylene
PEX : Cross Linked Polyethylene

PLV : Pressure Limiting Valve
PPR : Random Polypropylene
RCP : Reinforced Concrete Pipe
RL : Reduced Level
RP : Rodding Point
RPZ : Reduced Pressure Zone (BFP)
RRJ : Rubber Ring Jointed
RWH : Rain Water Head
RWO : Rain Water Outlet
RWS : Rain Water Sump
SDO : Spoon Drain Outlet
SH : Soak Hole
S : Sanitary Pipe
SK : Sink
SLS : Sluice Sink
SLV : Sluice Valve
S/S : Stainles Steel
SS : Sanitary Sewer
SSMH : Sanitary Sewer Manhole
SU : Stub Up
SV :Stop Valve
SW : Storm Water
SWMH: Storm Water Manhole
T/A : To Above
T/B : To Below
TD : Tundish
TV : Terminal Vent
U/G : Under Ground
UGT : Under Bench Grease Trap
UR : Urinal
V/A : Valve Assembly - See Drawing
VCP :Vitrified Clay Pipe
VHB :Vanity Hand Basin
VP :Vent Pipe
W&T : Waste and Trap
WBU : Water Boiling Unit
WC : Water Closet
WHB : Wash Hand Basin
WM : Washing Machine
WP : Water Pipe

: Unit Entry Direction

DRAINS AND TRAPS

CD : Condensate Drain

TD : Tundish

GT : Gulley Trap

ORG : Overflow Relief Gulley

GIT : Grease Interceptor Trap

FWG : Channel Drain c/w FWG

: Traps - (Schematics)

: Traps - (Schematics)

FWG : Floor Waste Gulley

FWO : Floor Waste Outlet

RWO : Rain Water Outlet (RWO) / Planter Box Outlet (PBO) / Balcony Outlet (BO) As Noted

CSP1 : 450 x 450 Cess Pit Ø100 Half Siphon Outlet

CSP2 :675 x 450 Cess Pit Ø150 Half Siphon Outlet

OPERATION

: Direction of Flow

FALL:1:100 : Pipe Fall

: Concentric Reducer

: Eccentric Reducer

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL	

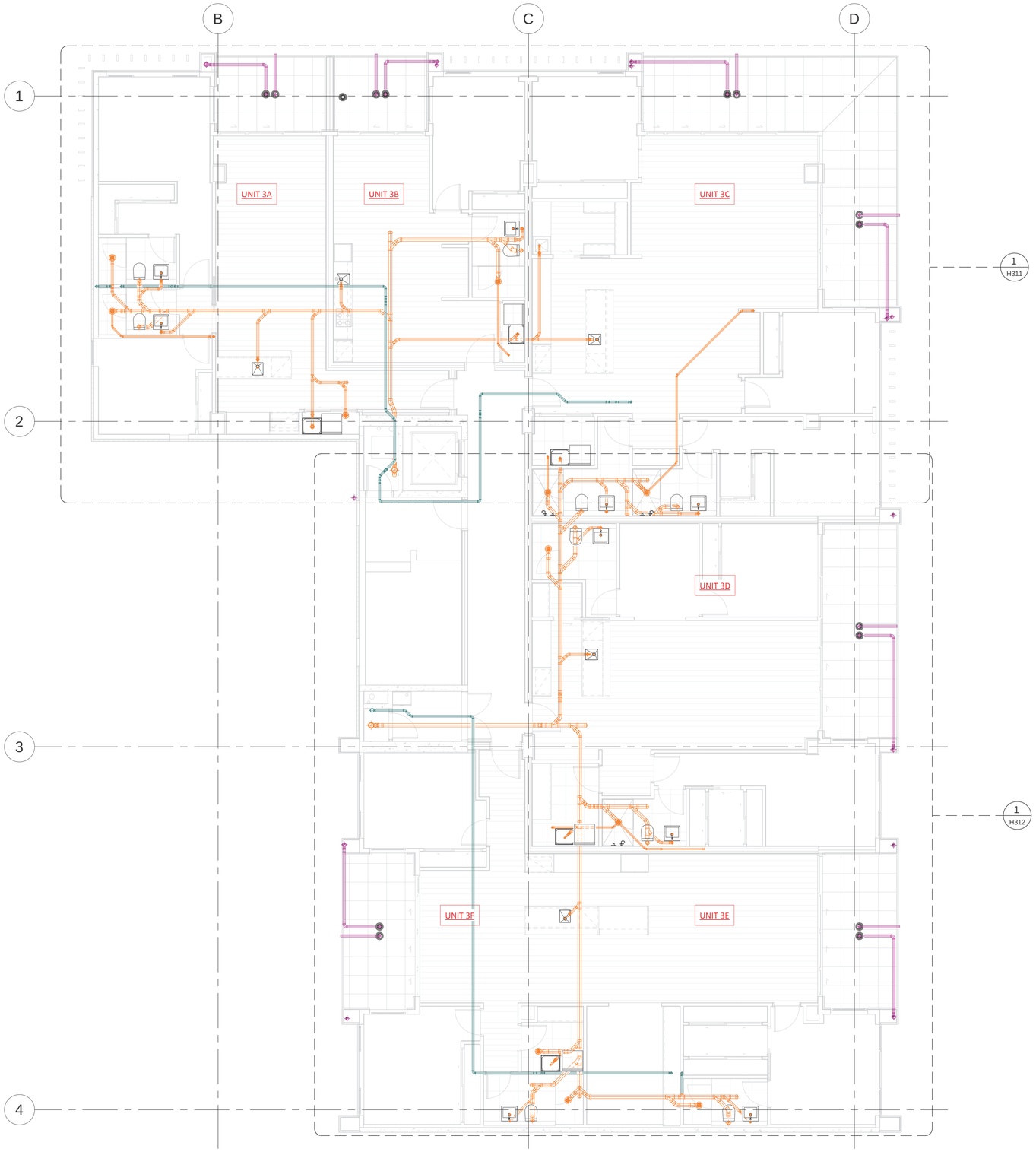
Scale	A1= 1 : 50
Date	26-11-2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

Job Title: LEGEND

Drawing number: H001

Issue: A



1 / H301A LEVEL 3 HIGH LEVEL SANITARY LAYOUT
1 : 75

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL	

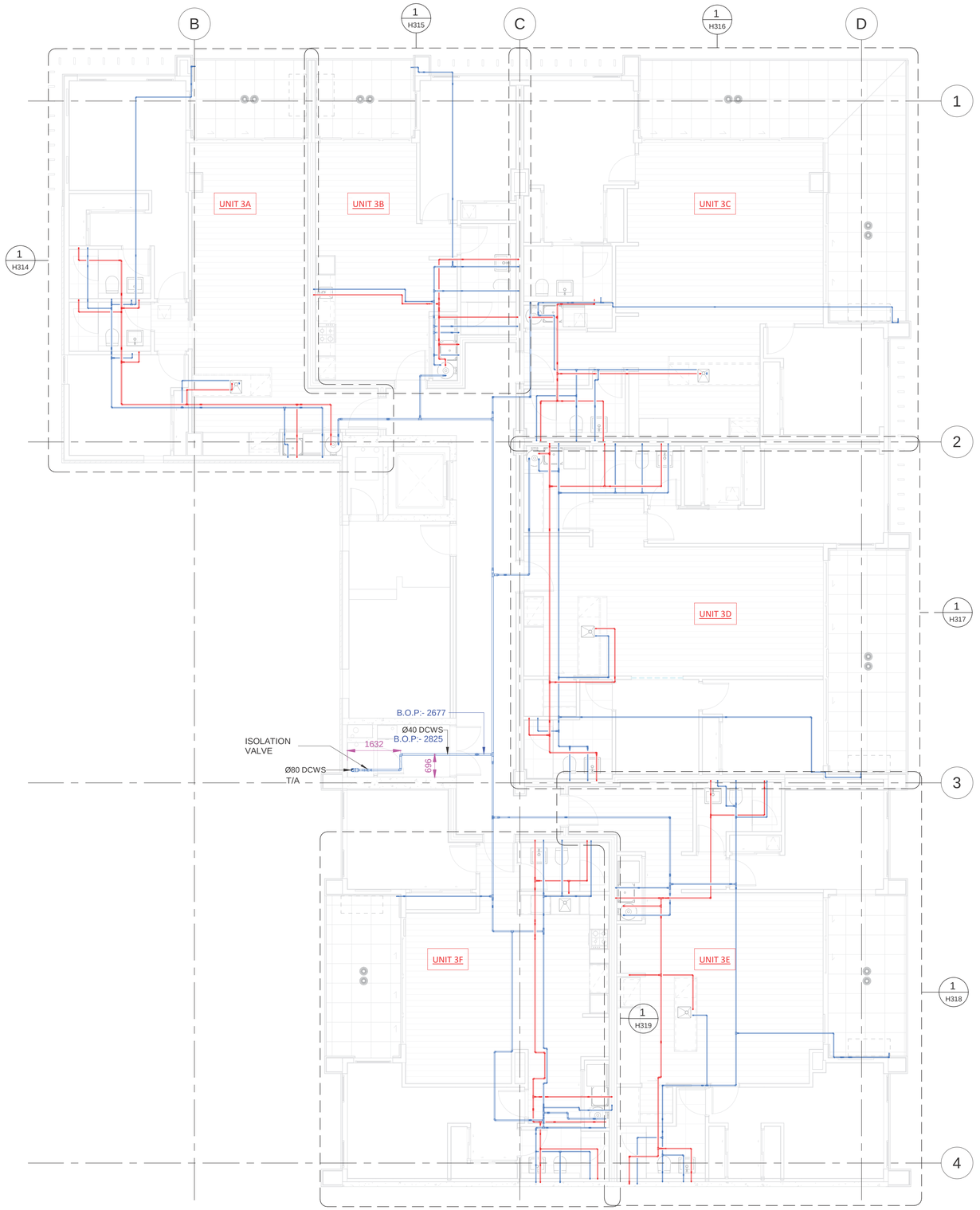
Scale	A1= 1 : 75
Date	30/11/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

Job Title: LEVEL 3 HIGH LEVEL SANITARY LAYOUT

Drawing number: H301A

Issue: A



1 / H301B LEVEL 03 WATER SUPPLY LAYOUT
1 : 75

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1= 1 : 75
Date	30/11/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

Job Title: LEVEL 3 WATER SUPPLY LAYOUT

Drawing number: H301B

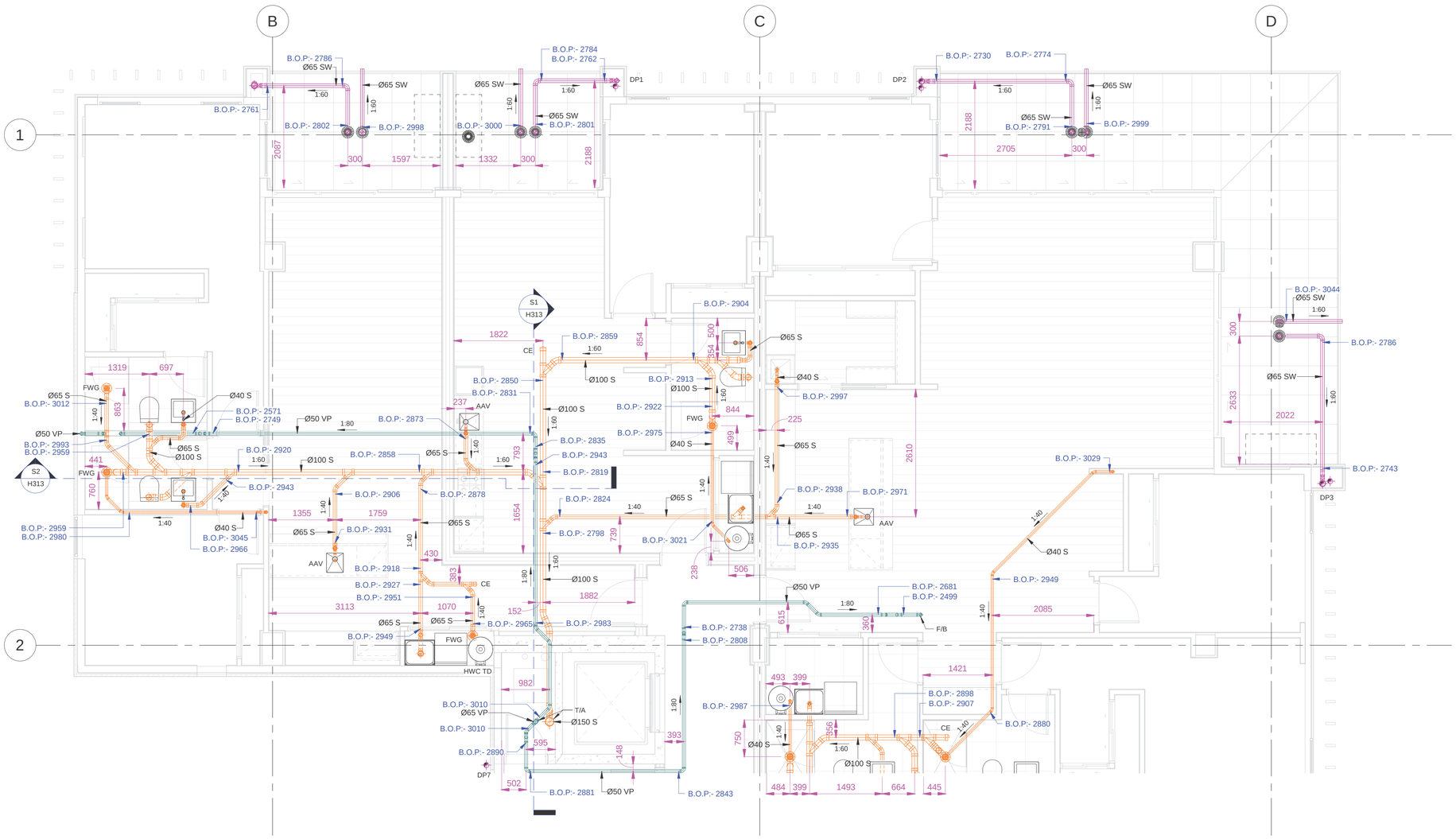
Issue: A

SANITARY NOTES:

1. All pipework above ground in noise sensitive areas to be triplus acoustic rated pipes and fittings.
2. All shower waste to be fitted with slimline channel waste as per specification.
3. All AAV's to be studor mini type.
4. All pipework along basement wall to be cantilevered on unistrut cantilevered brackets
5. All stacks to be compliant with ASNZS/3500 fully vented modified system.

GENERAL NOTES:

- Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
- All the pipes level reference with their respective structural floor consider as +0.00
- All the sanitary pipes segment is PVC-C - 727-2.



1 / H311 LEVEL 3 HIGH LEVEL SANITARY LAYOUT - PART 1

1 : 50

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1= 1 : 50
Date	30/11/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

Job Title: LEVEL 3 HIGH LEVEL SANITARY LAYOUT - PART 1

Drawing number: H311

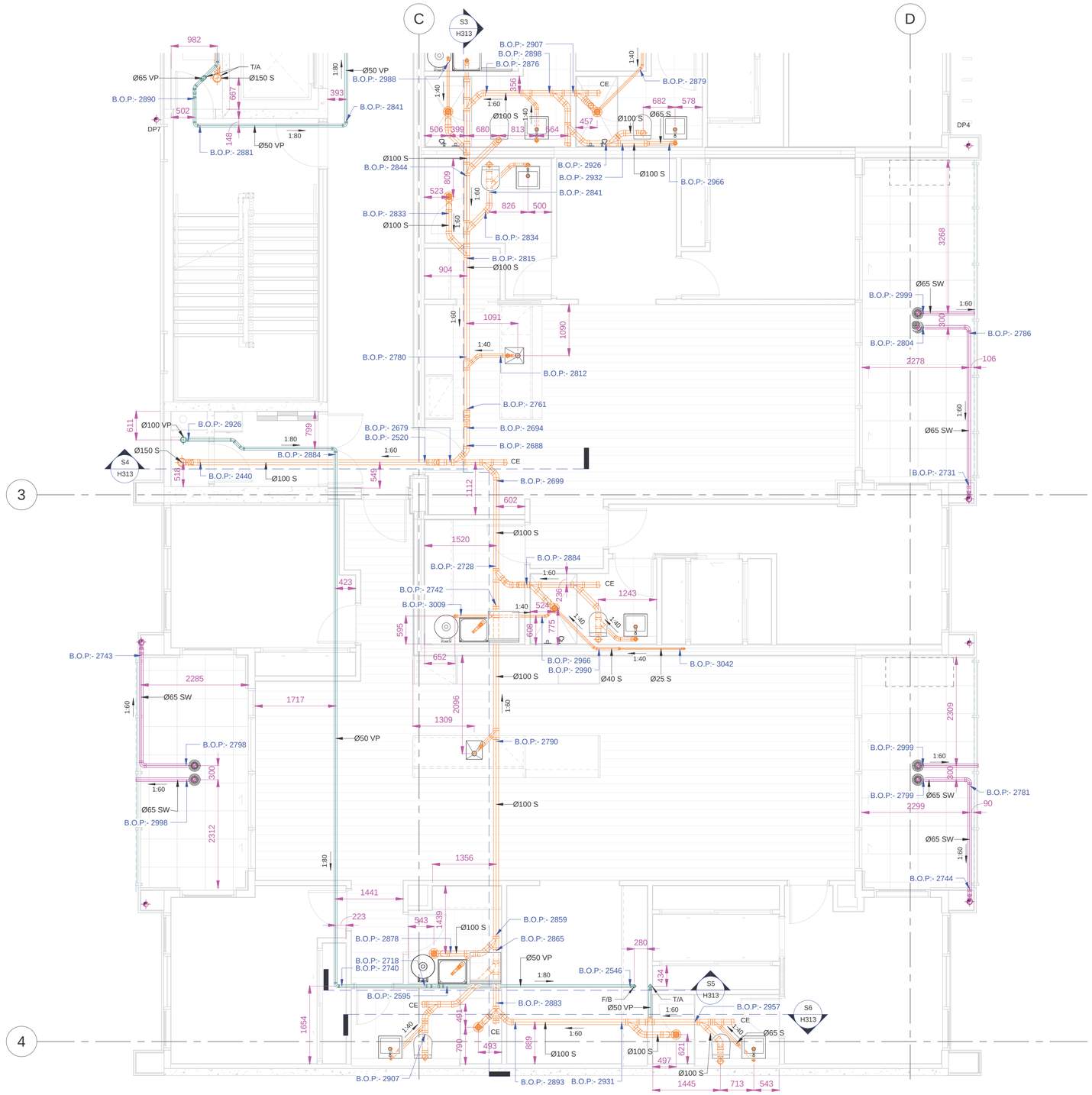
Issue: A

SANITARY NOTES:

1. All pipework above ground in noise sensitive areas to be triplus acoustic rated pipes and fittings.
2. All shower waste to be fitted with slimline channel waste as per specification.
3. All AAV's to be studor mini type.
4. All pipework along basement wall to be cantilevered on unistrut cantilevered brackets
5. All stacks to be compliant with ASNZS/3500 fully vented modified system.

GENERAL NOTES:

- Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
- All the pipes level reference with their respective structural floor consider as +0.00
- All the sanitary pipes segment is PVC-C - 727-2.



1 / H312 LEVEL 3 HIGH LEVEL SANITARY LAYOUT - PART 2

1 : 50

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1= 1 : 50
Date	30/11/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

Job Title: LEVEL 3 HIGH LEVEL SANITARY LAYOUT - PART 2

Drawing number: H312

Issue: A

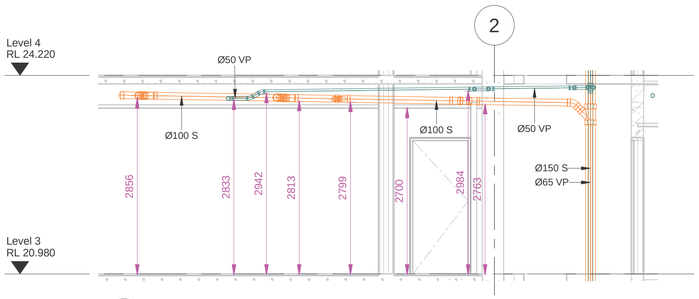
SILICON Engineering Consultants Ltd

SANITARY NOTES:

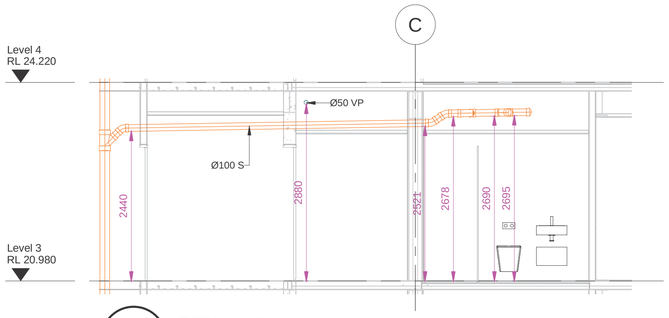
1. All pipework above ground in noise sensitive areas to be triplus acoustic rated pipes and fittings.
2. All shower waste to be fitted with slimline channel waste as per specification.
3. All AAV's to be studor mini type.
4. All pipework along basement wall to be cantilevered on unistrut cantilevered brackets
5. All stacks to be compliant with ASNZS/3500 fully vented modified system.

GENERAL NOTES:

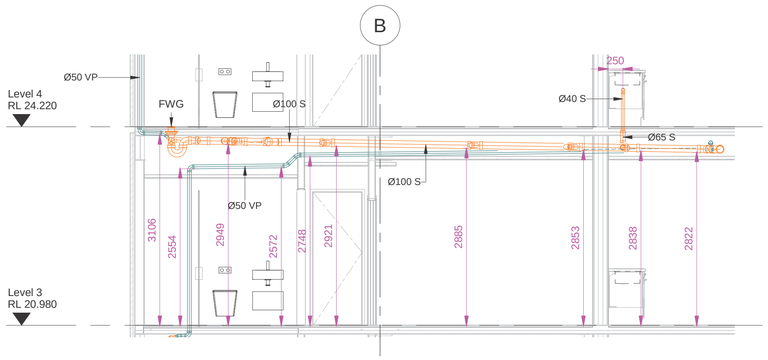
- Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
- All the pipes level reference with their respective structural floor consider as +0.00
- All the sanitary pipes segment is PVC-C - 727-2.



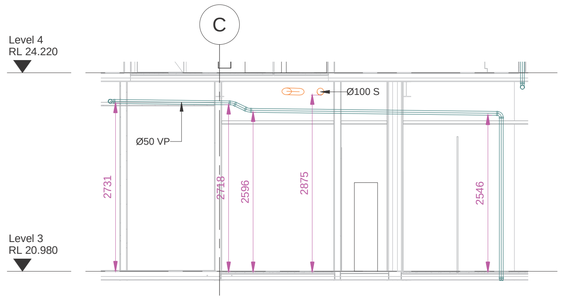
S1 / H313 SECTION L3-S1
1 : 50



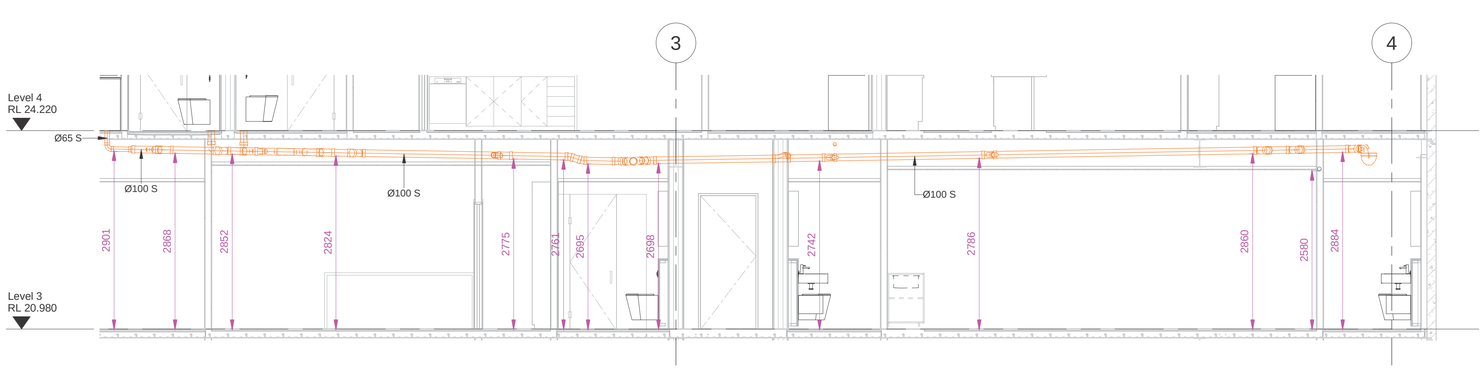
S4 / H313 SECTION L3-S4
1 : 50



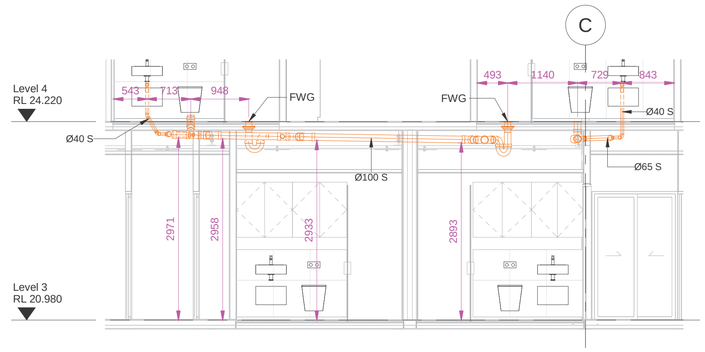
S2 / H313 SECTION L3-S2
1 : 50



S5 / H313 SECTION L3-S5
1 : 50



S3 / H313 SECTION L3-S3
1 : 50



S6 / H313 SECTION L3-S6
1 : 50

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL	

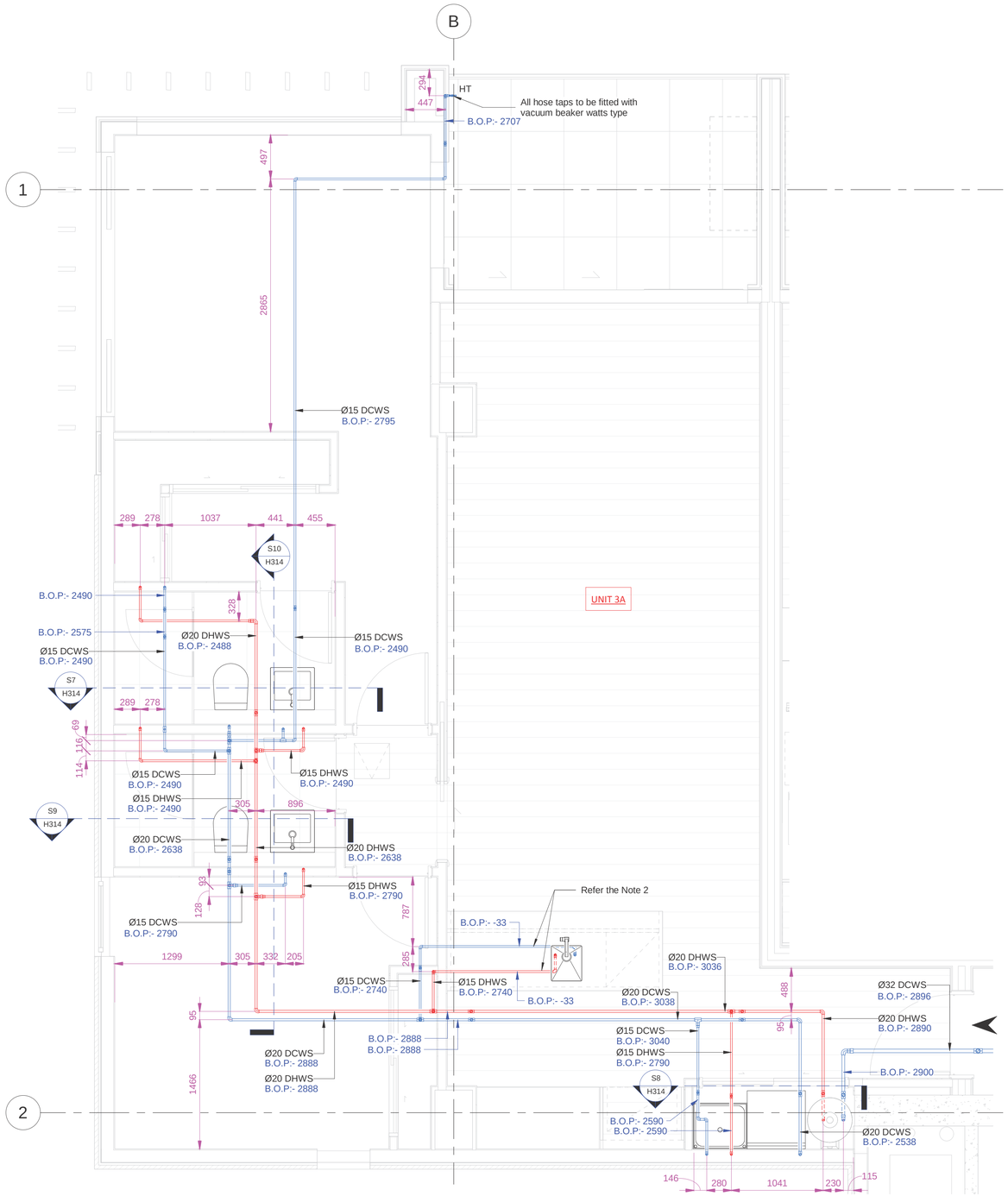
Scale	A1= 1 : 50
Date	30/11/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

Job Title: LEVEL 3 HIGH LEVEL SANITARY SECTION

Drawing number: H313

Issue: A



1 / H314 UNIT 3A WATER SUPPLY LAYOUT
1 : 40

WATER NOTES:

Pipework Installation
- All pipes must be kept as close as possible to the underside of the slab over. Do not install a pipe hanging 300mm below the slab if that same pipe can be installed 50mm below the slab.
- All pipes shall be installed, as applicable, to be straight, trues, level, plumb and parallel.

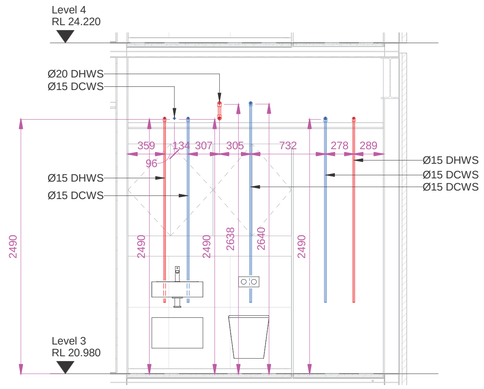
Water Reticulation
- All pipework shown as DN 25 and above shall be PPR 80 and the figures shown indicate internal diameter. Use minimum pipe strength of PN 9 for cold water and PN 16 for hot water. Fixing centes shall not exceed 20 times the pipe diameter.

Pipework Reticulation
- Use DN 15 Kembla pex tosupply single fixture to a maximum length of 3m. (Use DN 20 Kembla pex for lengths greater than 3m.) Use DN20 Kembla pex to supply two or more fixtures.

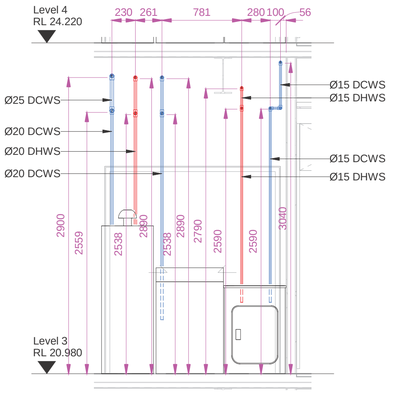
HT
- DN 15 Lockshield hose tap fixed on wall 750mm off affl. Provide Watts bhcv vacuum break to tap outlet. Fix to wall with dynabolts, do not use nylon fastners.

GENERAL NOTES:

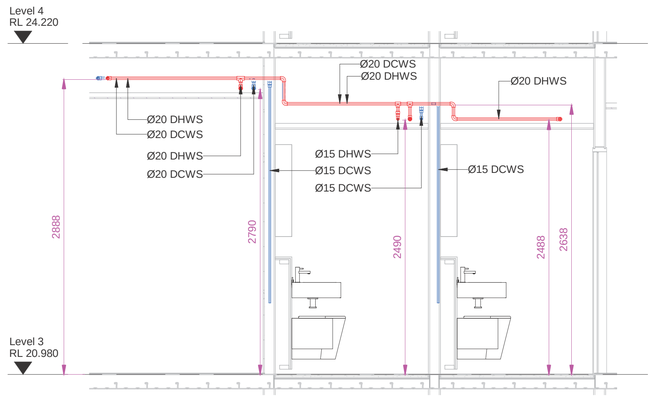
1. Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
2. Pex Pipes embeded into the slab.
3. All the pipes level referance with their respective structural floor consider as +0.00.



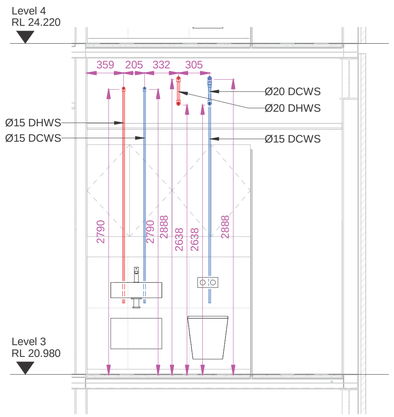
S7 / H314 SECTION L3-S7
1 : 30



S8 / H314 SECTION L3-S8
1 : 30



S10 / H314 SECTION L3-S10
1 : 30



S9 / H314 SECTION L3-S9
1 : 30

Scale	A1= As indicated	Job Name	Latitude Apartments 8-10 Park Street
Date	30/11/2018	Job Title	UNIT 3A WATER SUPPLY LAYOUT
Drawn	RS	Drawing number	H314
Checked	TP	Issue	A
Approved	TP		
Job No.	FBB1090		

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL	

SILICON Engineering Consultants Ltd

WATER NOTES:

Pipework Installation
- All pipes must be kept as close as possible to the underside of the slab over. Do not install a pipe hanging 300mm below the slab if that same pipe can be installed 50mm below the slab.
- All pipes shall be installed, as applicable, to be straight, trues, level, plumb and parallel.

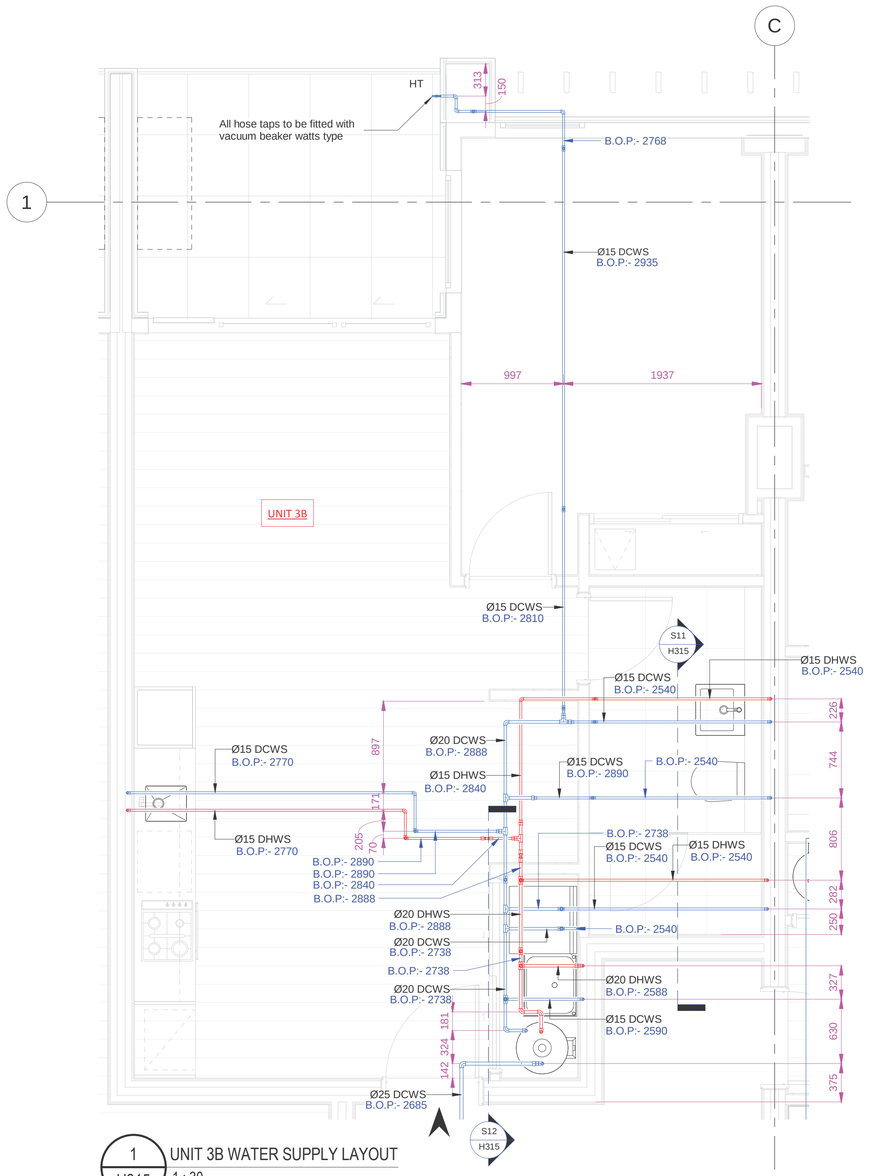
Water Reticulation
- All pipework shown as DN 25 and above shall be PPR 80 and the figures shown indicate internal diameter. Use minimum pipe strength of PN 9 for cold water and PN 16 for hot water. Fixing centes shall not exceed 20 times the pipe diameter.

Pipework Reticulation
- Use DN 15 Kembla pex tosupply single fixture to a maximum length of 3m. (Use DN 20 Kembla pex for lengths greater than 3m.)
  Use DN20 Kembla pex to supply two or more fixtures.

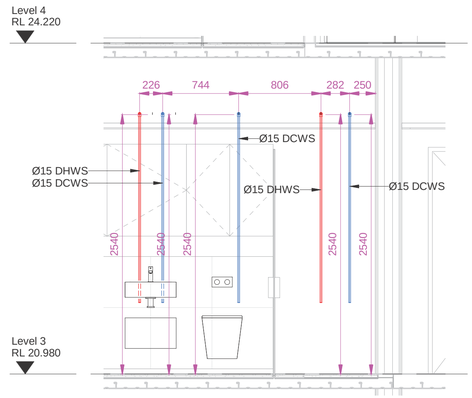
HT
- DN 15 Lockshield hose tap fixed on wall 750mm off affl. Provide Watts bhcv vacuum break to tap outlet. Fix to wall with dynabolts, do not use nylon fastners.

GENERAL NOTES:

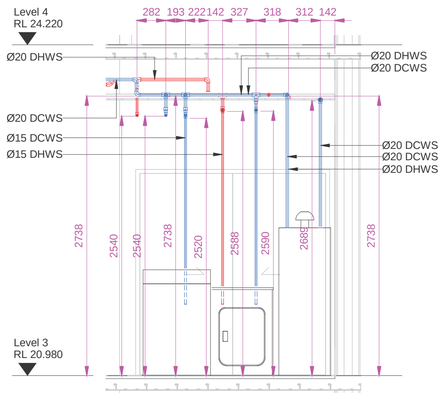
1. Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
2. Pex Pipes embeded into the slab.
3. All the pipes level reference with their respective structural floor consider as +0.00.



1 / H315 UNIT 3B WATER SUPPLY LAYOUT
1 : 30



S11 / H315 SECTION L3-S11
1 : 30



S12 / H315 SECTION L3-S12
1 : 30

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL	

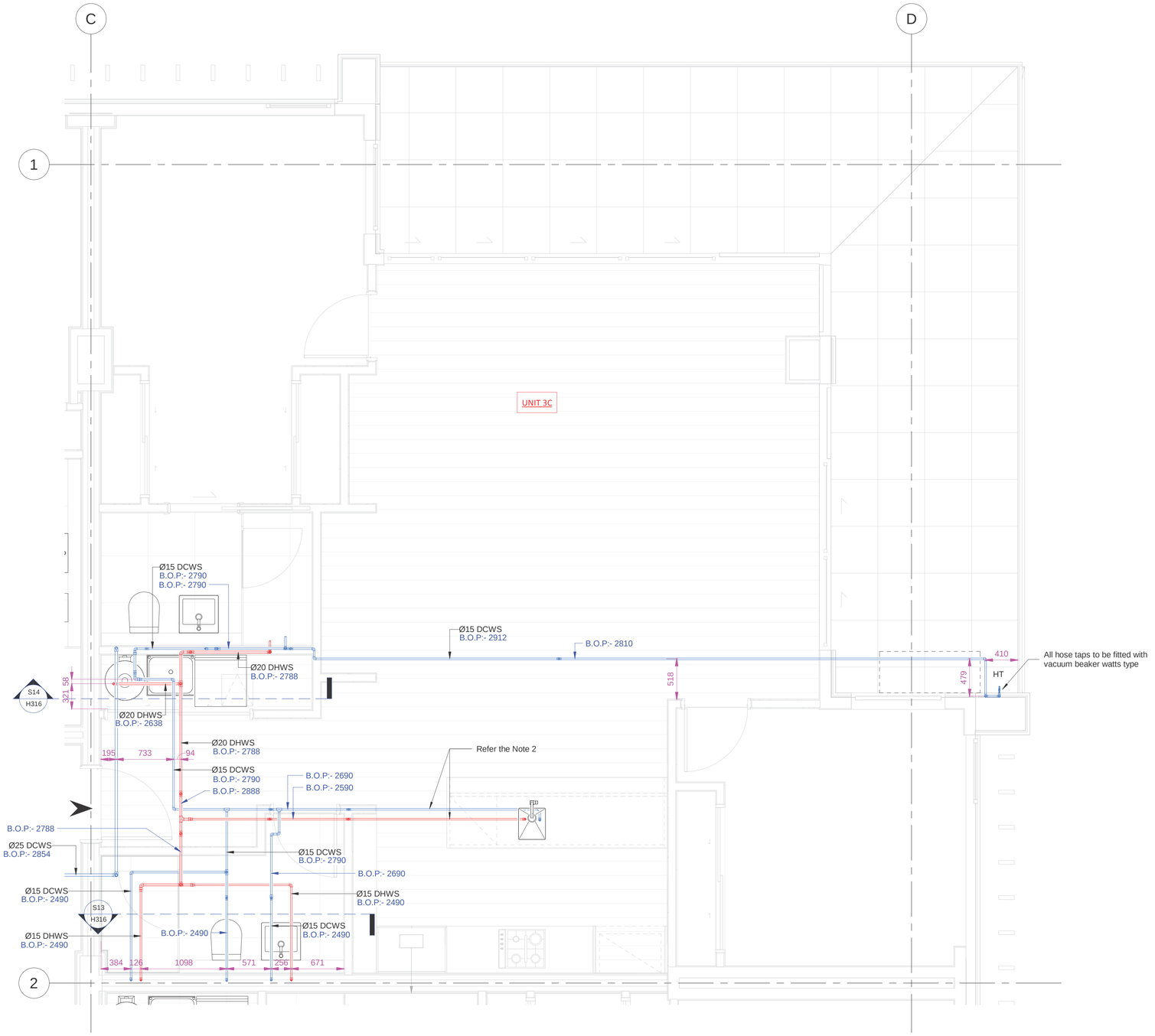
Scale	A1= As indicated
Date	30/11/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

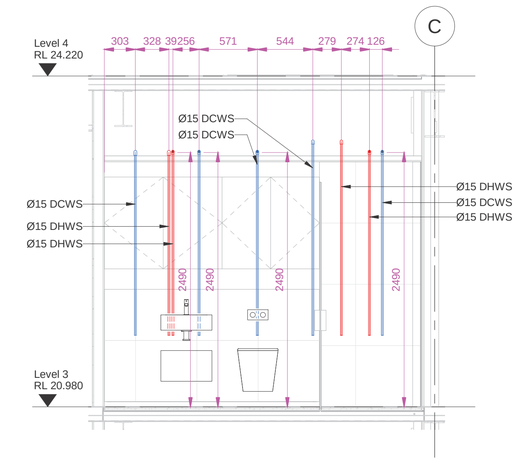
Job Title: UNIT 3B WATER SUPPLY LAYOUT

Drawing number: H315

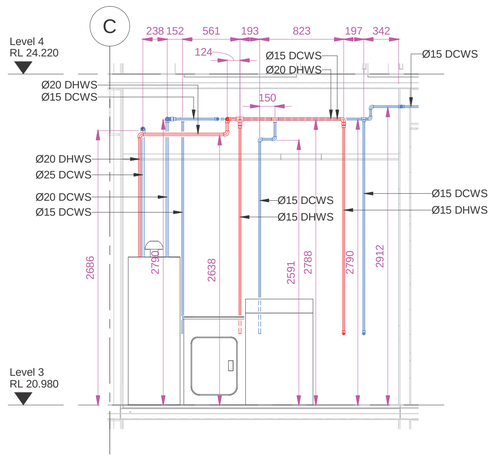
Issue: A



1 / H316 UNIT 3C WATER SUPPLY LAYOUT
1 : 30



S13 / H316 SECTION L3-S13
1 : 30



S14 / H316 SECTION L3-S14
1 : 30

WATER NOTES:

Pipework Installation
- All pipes must be kept as close as possible to the underside of the slab over. Do not install a pipe hanging 300mm below the slab if that same pipe can be installed 50mm below the slab.
- All pipes shall be installed, as applicable, to be straight, trues, level, plumb and parallel.

Water Reticulation
- All pipework shown as DN 25 and above shall be PPR 80 and the figures shown indicate internal diameter. Use minimum pipe strength of PN 9 for cold water and PN 16 for hot water. Fixing centes shall not exceed 20 times the pipe diameter.

Pipework Reticulation
- Use DN 15 Kembla pex tosupply single fixture to a maximum length of 3m. (Use DN 20 Kembla pex for lengths greater than 3m.) Use DN20 Kembla pex to supply two or more fixtures.

HT
- DN 15 Lockshield hose tap fixed on wall 750mm off affl. Provide Watts bhcv vacuum break to tap outlet. Fix to wall with dynabolts, do not use nylon fastners.

GENERAL NOTES:

1. Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
2. Pex Pipes embeded into the slab.
3. All the pipes level referance with their respective structural floor consider as +0.00.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL	

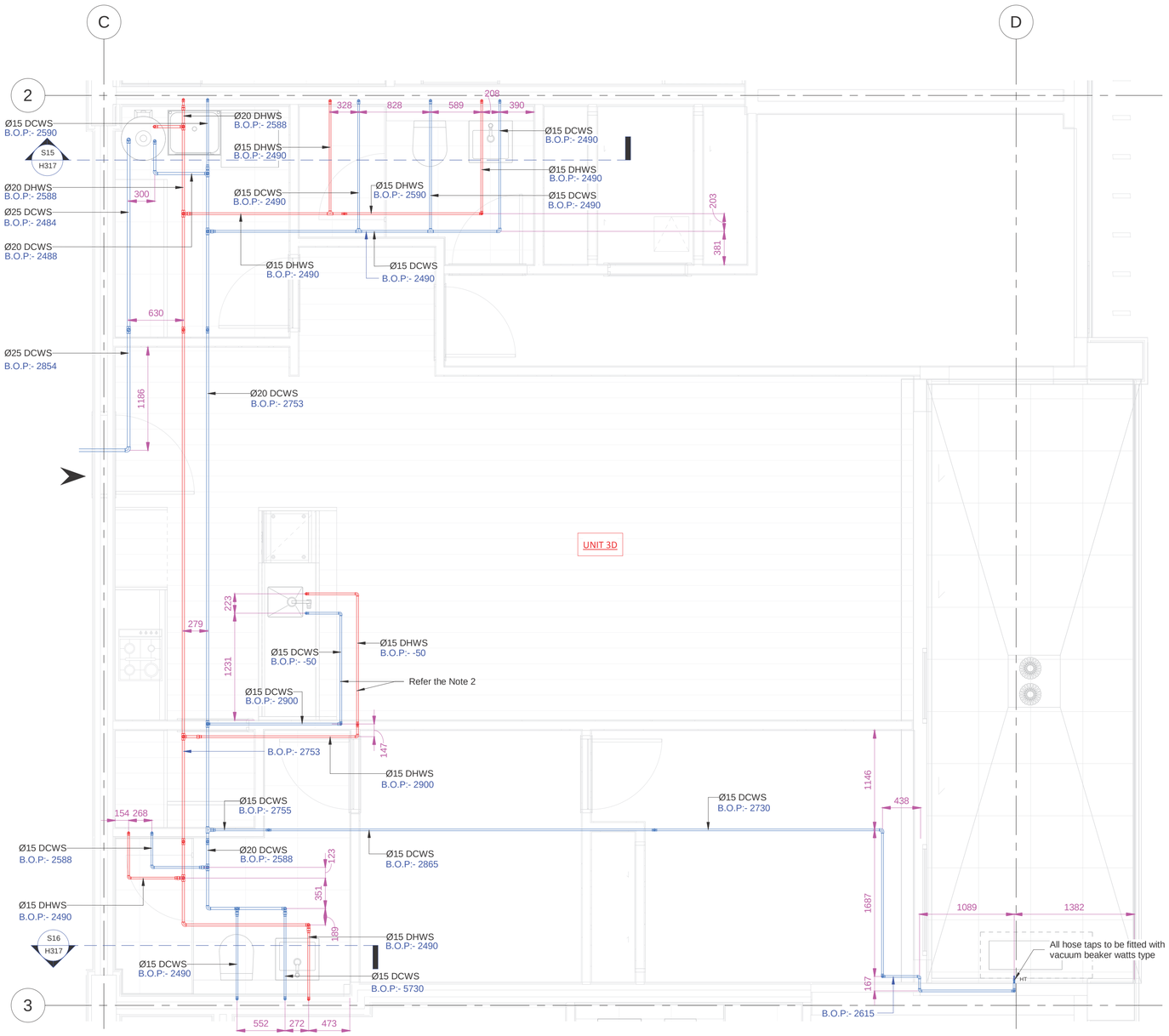
Scale	A1= As indicated
Date	30/11/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments, 8-10 Park Street

Job Title: UNIT 3C WATER SUPPLY LAYOUT

Drawing number: H316

Issue: A



1 / H317 UNIT 3D WATER SUPPLY LAYOUT
1 : 30

WATER NOTES:

Pipework Installation
- All pipes must be kept as close as possible to the underside of the slab over. Do not install a pipe hanging 300mm below the slab if that same pipe can be installed 50mm below the slab.
- All pipes shall be installed, as applicable, to be straight, trues, level, plumb and parallel.

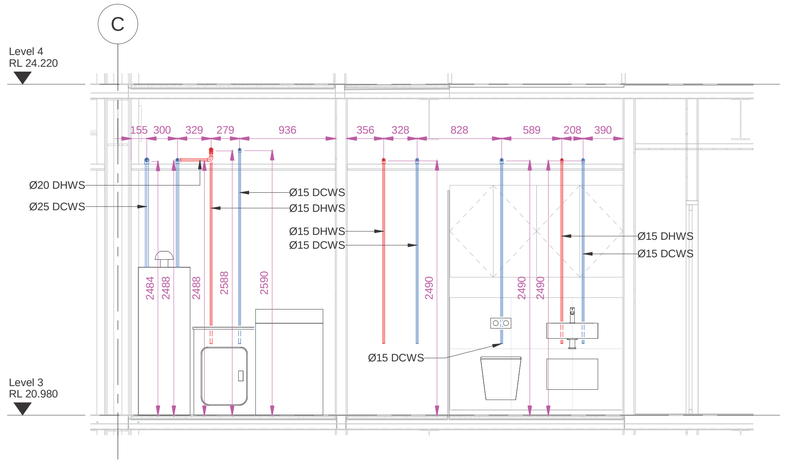
Water Reticulation
- All pipework shown as DN 25 and above shall be PPR 80 and the figures shown indicate internal diameter. Use minimum pipe strength of PN 9 for cold water and PN 16 for hot water. Fixing centes shall not exceed 20 times the pipe diameter.

Pipework Reticulation
- Use DN 15 Kembla pex tosupply single fixture to a maximum length of 3m. (Use DN 20 Kembla pex for lengths greater than 3m.) Use DN20 Kembla pex to supply two or more fixtures.

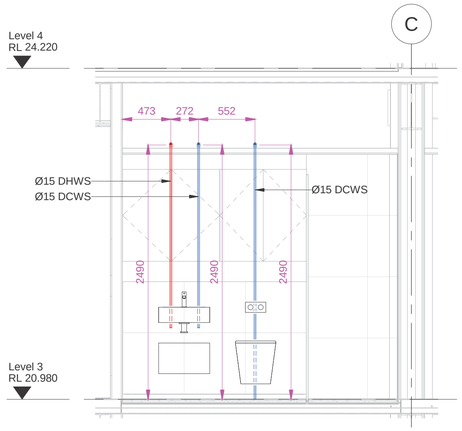
HT
- DN 15 Lockshield hose tap fixed on wall 750mm off affl. Provide Watts bhcv vacuum break to tap outlet. Fix to wall with dynabolts, do not use nylon fastners.

GENERAL NOTES:

1. Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
2. Pex Pipes embeded into the slab.
3. All the pipes level referance with their respective structural floor consider as +0.00.



S15 / H317 SECTION L3-S15
1 : 30



S16 / H317 SECTION L3-S16
1 : 30

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL	

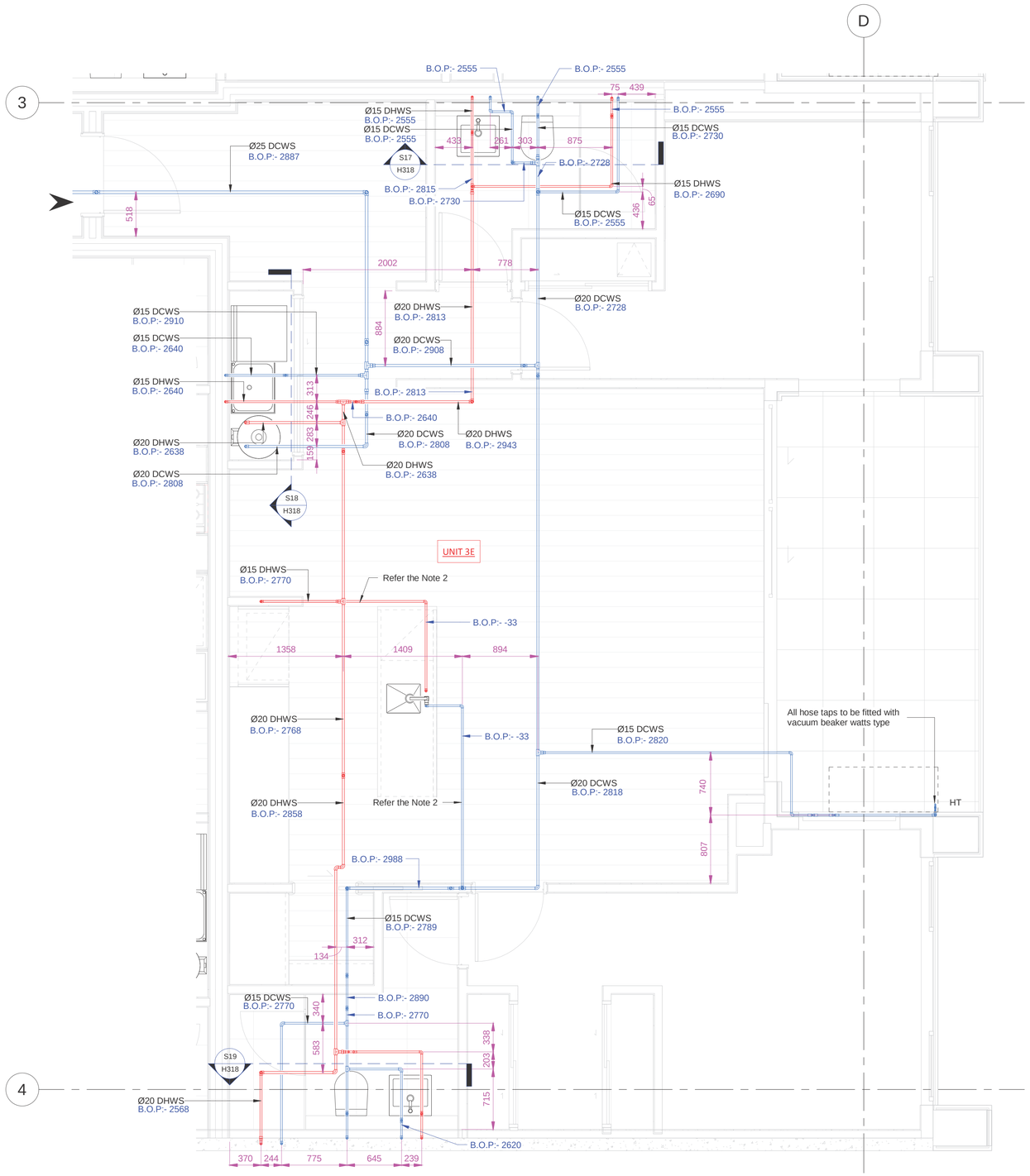
Scale	A1= As indicated
Date	30/11/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

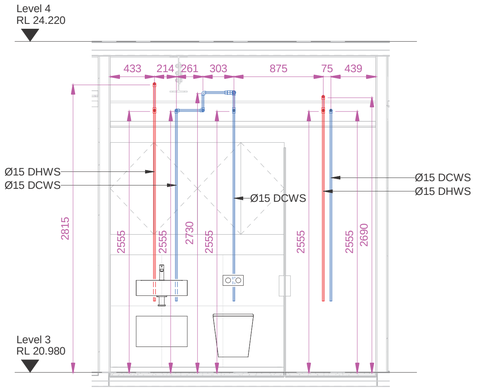
Job Title: UNIT 3D WATER SUPPLY LAYOUT

Drawing number: H317

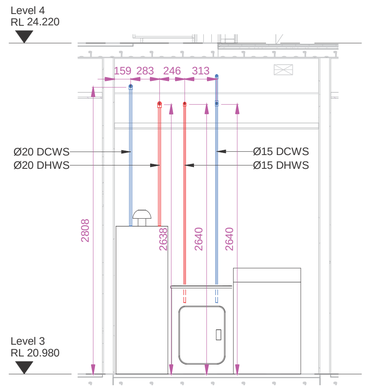
Issue: A



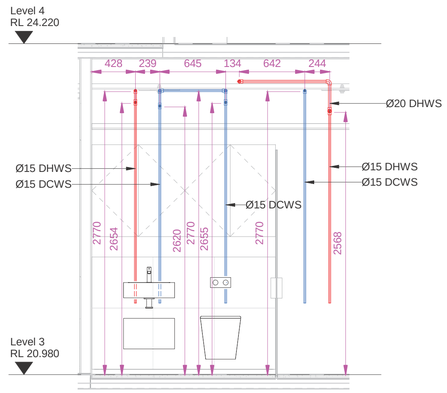
1 / H318 UNIT 3E WATER SUPPLY LAYOUT
1 : 40



S17 / H318 SECTION L3-S17
1 : 30



S18 / H318 SECTION L3-S18
1 : 30



S19 / H318 SECTION L3-S19
1 : 30

WATER NOTES:

Pipework Installation
- All pipes must be kept as close as possible to the underside of the slab over. Do not install a pipe hanging 300mm below the slab if that same pipe can be installed 50mm below the slab.
- All pipes shall be installed, as applicable, to be straight, trues, level, plumb and parallel.

Water Reticulation
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HT
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GENERAL NOTES:

1. Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
2. Pex Pipes embeded into the slab.
3. All the pipes level reference with their respective structural floor consider as +0.00.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL	

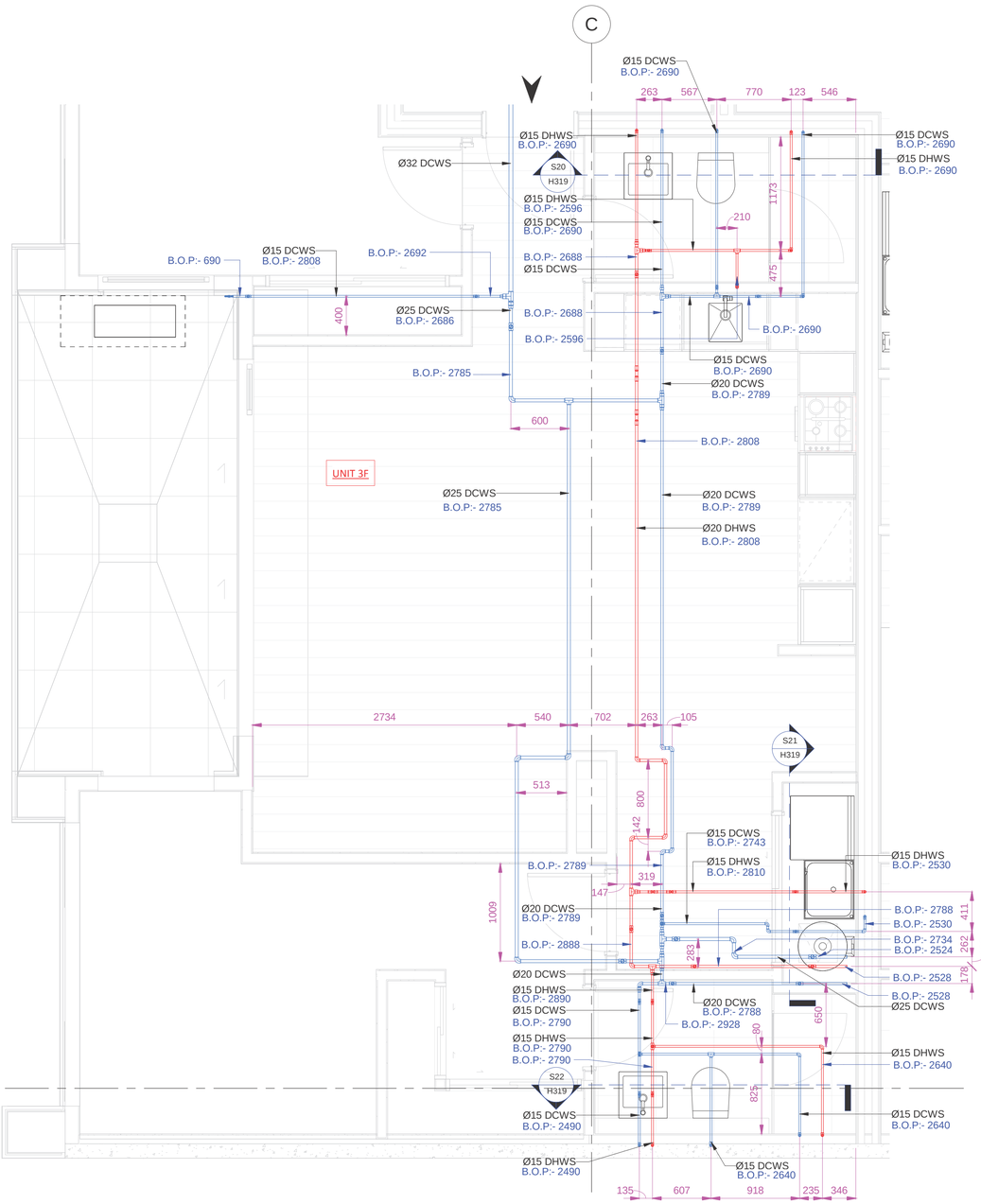
Scale	A1= As indicated
Date	30/11/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments, 8-10 Park Street

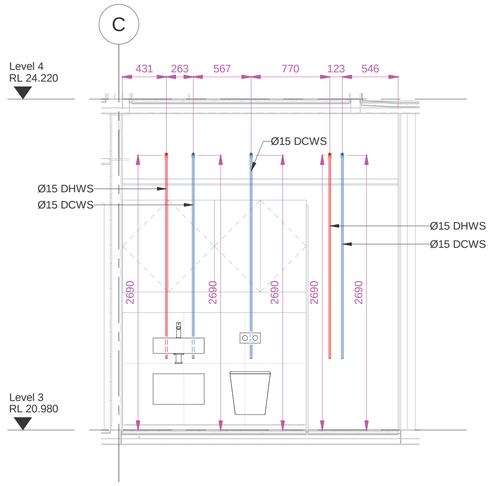
Job Title: UNIT 3E WATER SUPPLY LAYOUT

Drawing number: H318

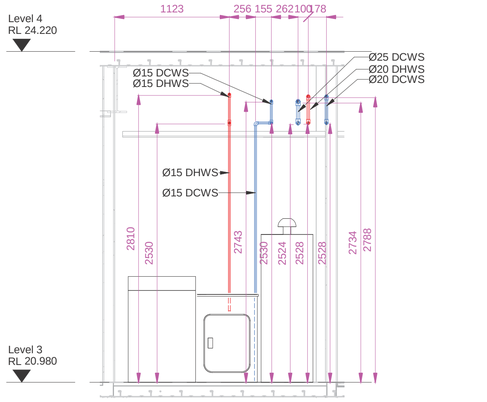
Issue: A



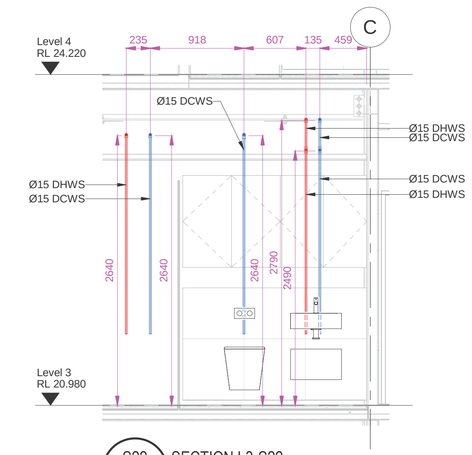
1 / H319 UNIT 3F WATER SUPPLY LAYOUT
1 : 30



S20 / H319 SECTION L3-S20
1 : 30



S21 / H319 SECTION L3-S21
1 : 30



S22 / H319 SECTION L3-S22
1 : 30

WATER NOTES:

Pipework Installation
- All pipes must be kept as close as possible to the underside of the slab over. Do not install a pipe hanging 300mm below the slab if that same pipe can be installed 50mm below the slab.
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Water Reticulation
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Pipework Reticulation
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HT
- DN 15 Lockshield hose tap fixed on wall 750mm off affl. Provide Watts bhcv vacuum break to tap outlet. Fix to wall with dynabolts, do not use nylon fastners.

GENERAL NOTES:

1. Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
2. Pex Pipes embeded into the slab.
3. All the pipes level reference with their respective structural floor consider as +0.00.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1= As indicated
Date	30/11/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments, 8-10 Park Street

Job Title: UNIT 3F WATER SUPPLY LAYOUT

Drawing number: H319

Issue: A

SHEET LIST

SHEET NUMBER	SHEET NAME	REVISION	REVISION DATE	CURRENT REVISION DESCRIPTION
H001	LEGEND	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H101A	LEVEL 1 HIGH LEVEL SANITARY SERVICES LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H101B	LEVEL 1 WATER RETICULATION LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H111	LEVEL 1 HIGH LEVEL SANITARY LAYOUT PART 1 & SECTIONS	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H112	LEVEL 1 HIGH LEVEL SANITARY LAYOUT PART 2 & SECTIONS	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H113	UNIT 1A WATER SUPPLY LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H114	UNIT 1B WATER SUPPLY LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H115	UNIT 1C WATER SUPPLY LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H116	UNIT 1D WATER SUPPLY LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H201A	LEVEL 2 HIGH LEVEL SANITARY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H201B	LEVEL 2 WATER RETICULATION LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H211	LEVEL 2 HIGH LEVEL SANITARY LAYOUT PART 1 & SECTIONS	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H212	LEVEL 2 HIGH LEVEL SANITARY LAYOUT PART 2 & SECTIONS	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H213	UNIT 2A WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H214	UNIT 2B WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H215	UNIT 2C WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H216	UNIT 2D WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H217	UNIT 2E WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H218	UNIT 2F WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H301A	LEVEL 3 HIGH LEVEL SANITARY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H301B	LEVEL 3 WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H311	LEVEL 3 HIGH LEVEL SANITARY LAYOUT - PART 1	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H312	LEVEL 3 HIGH LEVEL SANITARY LAYOUT - PART 2	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H313	LEVEL 3 HIGH LEVEL SANITARY SECTION	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H314	UNIT 3A WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H315	UNIT 3B WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H316	UNIT 3C WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H317	UNIT 3D WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H318	UNIT 3E WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H319	UNIT 3F WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H401A	LEVEL 4 HIGH LEVEL SANITARY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H401B	LEVEL 4 WATER SUPPLY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H411	LEVEL 4 HIGH LEVEL SANITARY LAYOUT - PART 1	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H412	LEVEL 4 HIGH LEVEL SANITARY LAYOUT - PART 2	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H413	UNIT 4A WATER SUPPLY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H414	UNIT 4B WATER SUPPLY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H415	UNIT 4C WATER SUPPLY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H416	UNIT 4D WATER SUPPLY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H417	UNIT 4E WATER SUPPLY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL

D

PORJECT NAME : LATITUDE APARTMENTS

PORJECT NO. : FBB1090

HYDRAULIC SERVICES

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
D	03-12-18	LEVEL 4 SHOP DRAWINGS ADDED	
C	30-11-18	LEVEL 3 SHOP DRAWINGS ADDED	
B	28-11-18	LEVEL 2 SHOP DRAWINGS ADDED	
A	26-11-18	LEVEL 1 SHOP DRAWINGS ADDED	

Scale	A1=
Date	26/11/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

Job Title: COVER PAGE & SHEET LIST

Drawing number: H000

Issue: D

ABBRIVATIONS :-

AAV : Air Admittance Valve
AFFL : Above Finished Floor Level
A/G : Above Ground
B : Bath
BDT : Bidet
BFFL : Below Finished Floor Level
BFP : Back Flow Preventer
BIFO : Blucher Industrial Floor Outlet
BO : Balcony Outlet
BSK : Bar Sink
CD : Condensate Drain
CE : Cleaning Eye
COS : Clear Out to Surface
CP : Catch Pit
CSP : Cess Pit
Cu : Copper
CW : Cold Water
CWEX : Cold Water Expansion Valve
CWR : Cold Water Riser
DCV : Couble Check Valve
DCW : Domestic Cold Water
DD : Dish Drawer
DF : Drinking Fountain
DHW : Domestic Hot Water
DHWF :Domestic Hot Water Flow
DHWR : Domestic Hot Water Return
DN : Diameter of Pipe - Nominal
DP : Down Pipe
DW : Dish Washer
EX : Existing
F/A : From Above
F/B : From Below
FFL : Finished Floor Level
FGL : Finished Ground Level
FH : Fire Hydrant
FHR :Fire Hose Reel
FWG :Floor Waste Gully
GIT :Grease Interceptor Trap
GV : Group Vent
GVB : Group Vented Branch
GW : Glass Washer
HB : Hand Basin
HCVB : Hose Connection Vacuum Breaker
HDPE : High Density Polyethylene
HR : Hose Reel
HT : Hose Tap (Cold Water)
HW : Hot Water
HWC : Hot Water Cylinder (Electric)
HWD : Hot Water Dropper
HWEX : Hot Water Expansion Valve
HWHT : Hot Water Hose Tap
HWU : Hot Water Unit (Gas)
IB : Inspection Bend
IJ : Inspection Joint
IL : Invert Level
IO : Inspection Opening
IV : Isolating Valve
LS : Line Strainer
LT : Laundary Tub
MDPE : Medium Density Polyethylene
MH : Manhole
MS : Mains Supply
NPCW : Non-Potable Cold Water
NPHW : Non Potable Hot Water
NRV : Non Return Valve
O/F : Over Flow
ORG : Overflow Relief Gulley
OS&Y : Outside Screw and Yoke
PBO : Planter Box Outlet
PE : Polyethylene
PEX : Cross Linked Polyethylene

PLV : Pressure Limiting Valve
PPR : Random Polypropylene
RCP : Reinforced Concrete Pipe
RL : Reduced Level
RP : Rodding Point
RPZ : Reduced Pressure Zone (BFP)
RRJ : Rubber Ring Jointed
RWH : Rain Water Head
RWO : Rain Water Outlet
RWS : Rain Water Sump
SDO : Spoon Drain Outlet
SH : Soak Hole
S : Sanitary Pipe
SK : Sink
SLS : Sluice Sink
SLV : Sluice Valve
S/S : Stainles Steel
SS : Sanitary Sewer
SSMH : Sanitary Sewer Manhole
SU : Stub Up
SV :Stop Valve
SW : Storm Water
SWMH: Storm Water Manhole
T/A : To Above
T/B : To Below
TD : Tundish
TV : Terminal Vent
U/G : Under Ground
UGT : Under Bench Grease Trap
UR : Urinal
V/A : Valve Assembly - See Drawing
VCP :Vitrified Clay Pipe
VHB :Vanity Hand Basin
VP :Vent Pipe
W&T : Waste and Trap
WBU : Water Boiling Unit
WC : Water Closet
WHB : Wash Hand Basin
WM : Washing Machine
WP : Water Pipe

: Unit Entry Direction

DRAINS AND TRAPS

CD : Condensate Drain

TD : Tundish

GT : Gulley Trap

ORG : Overflow Relief Gulley

GIT : Grease Interceptor Trap

FWG : Channel Drain c/w FWG

: Traps - (Schematics)

: Traps - (Schematics)

FWG : Floor Waste Gulley

FWO : Floor Waste Outlet

RWO : Rain Water Outlet (RWO) / Planter Box Outlet (PBO) / Balcony Outlet (BO) As Noted

CSP1 : 450 x 450 Cess Pit Ø100 Half Siphon Outlet

CSP2 :675 x 450 Cess Pit Ø150 Half Siphon Outlet

OPERATION

: Direction of Flow

FALL:1:100 : Pipe Fall

: Concentric Reducer

: Eccentric Reducer

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL	

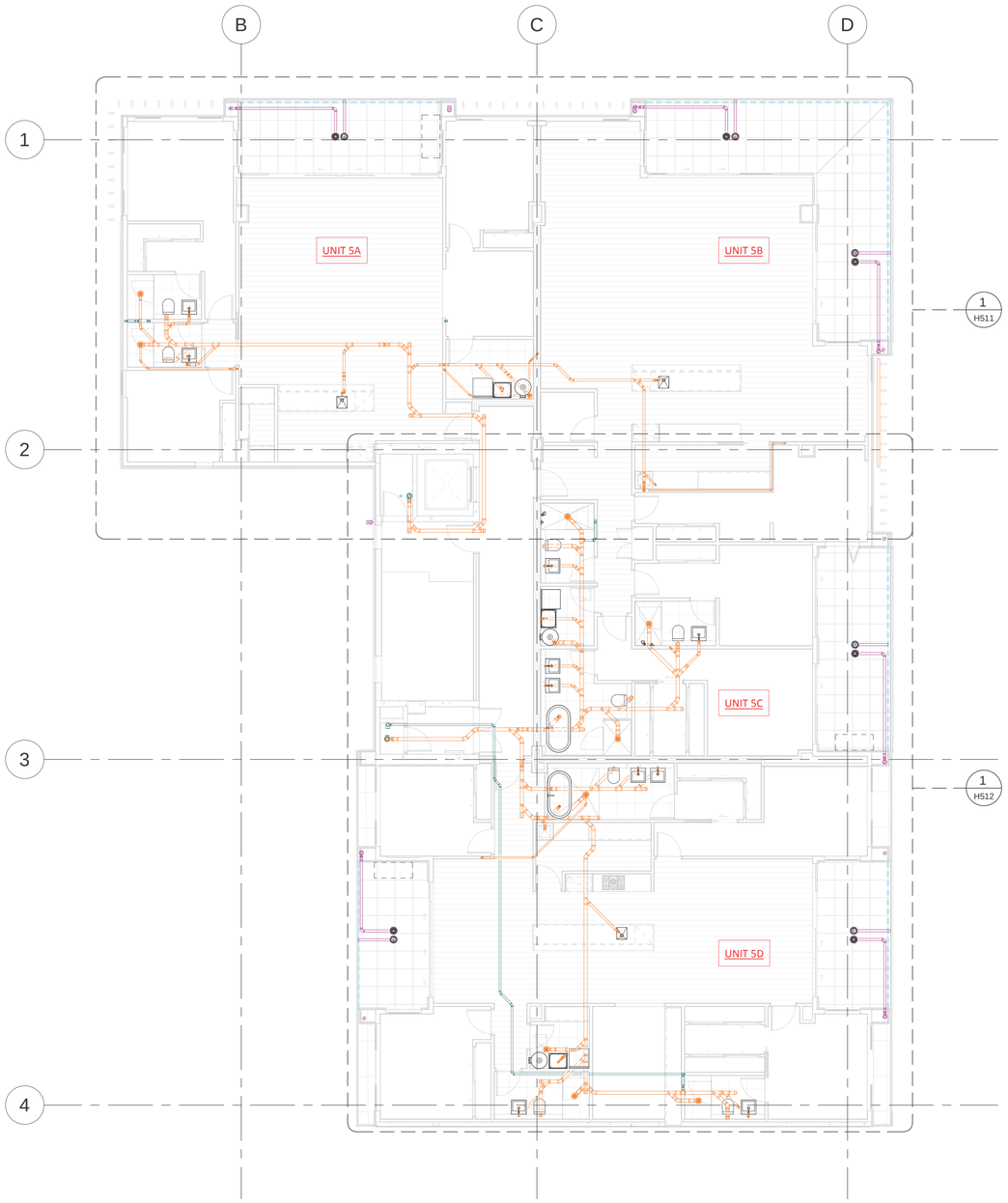
Scale	A1= 1 : 50
Date	26-11-2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments, 8-10 Park Street

Job Title: LEGEND

Drawing number: H001

Issue: A



1 / H501A LEVEL 5 HIGH LEVEL SANITARY LAYOUT
1 : 100

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	06-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL	

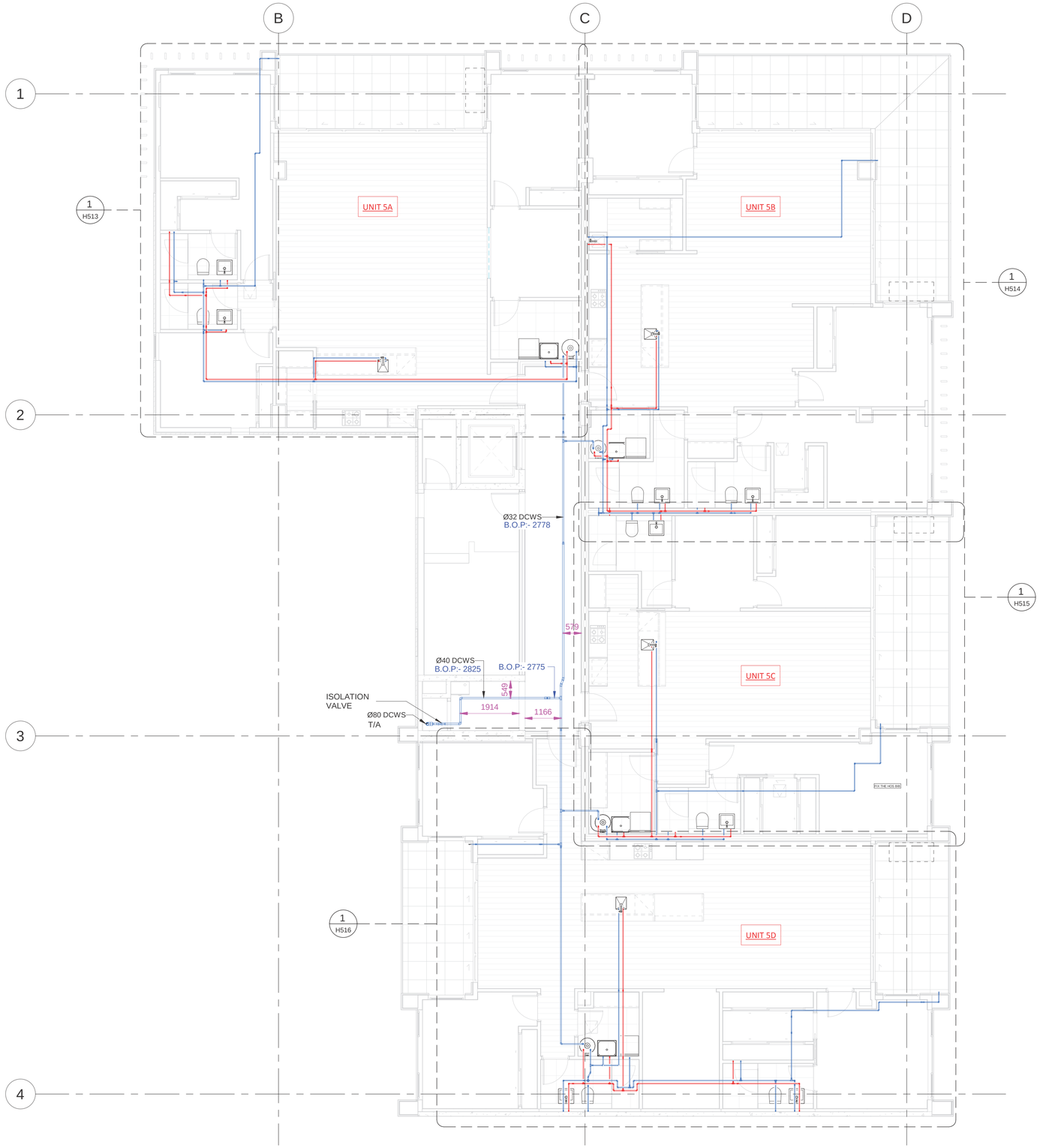
Scale	A1= 1 : 100
Date	08/12/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments, 8-10 Park Street

Job Title: LEVEL 5 HIGH LEVEL SANITARY LAYOUT

Drawing number: H501A

Issue: A



1 / H501B LEVEL 5 WATER SUPPLY LAYOUT
1 : 75

Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL	

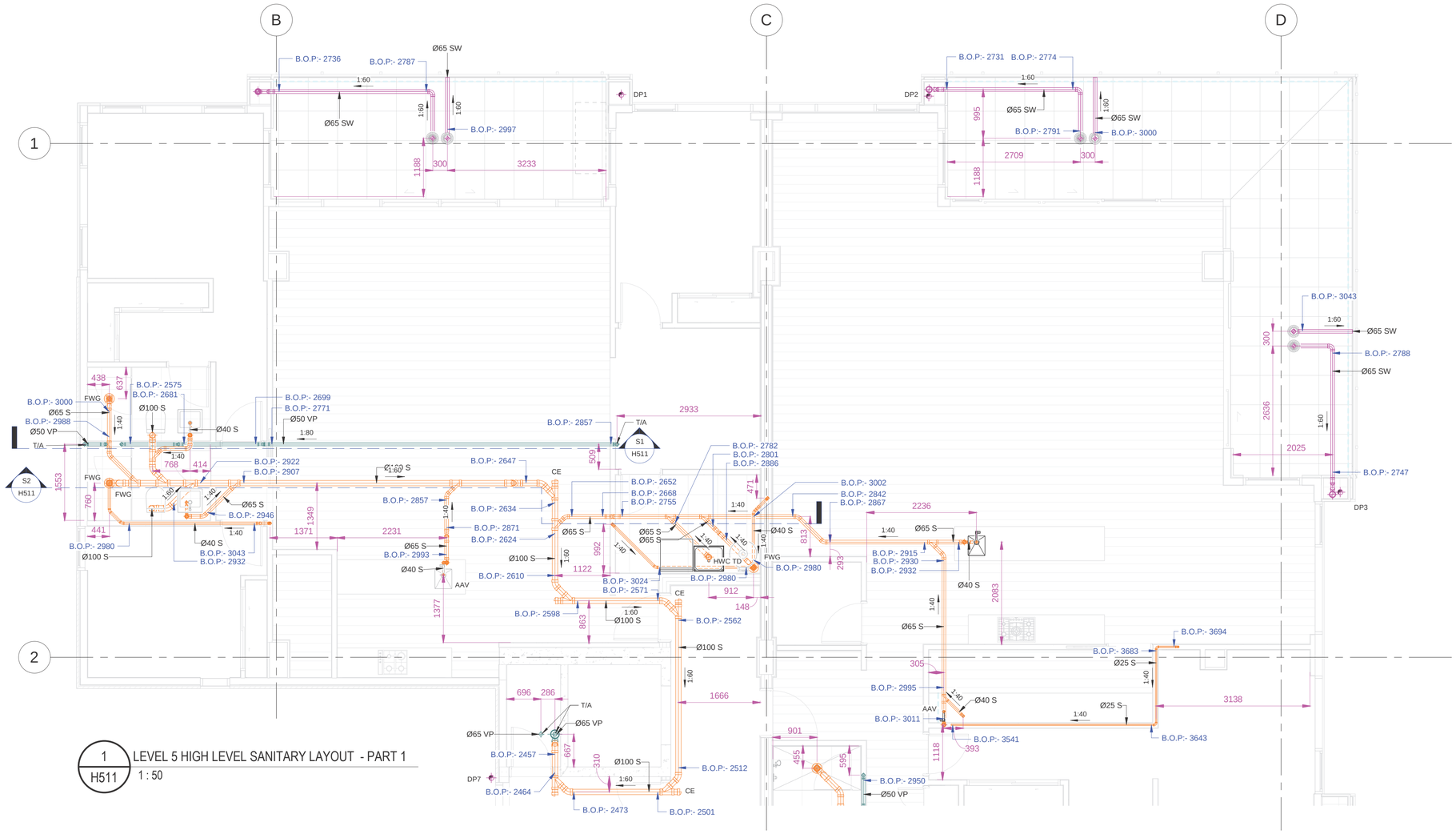
Scale	A1= 1 : 75
Date	08/12/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

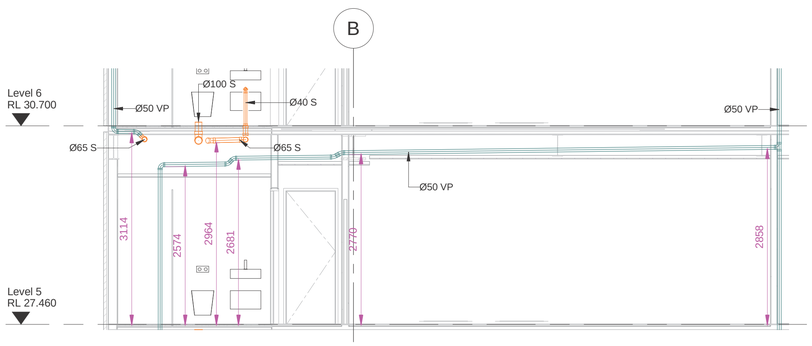
Job Title: LEVEL 5 WATER SUPPLY LAYOUT

Drawing number: H501B

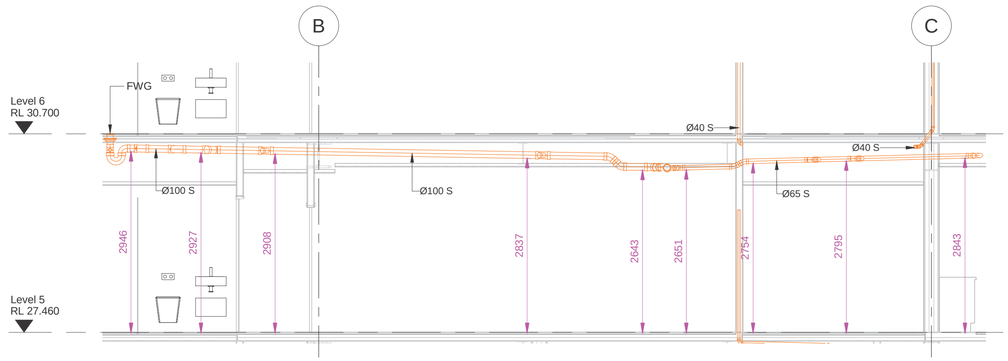
Issue: A



1 / H511 LEVEL 5 HIGH LEVEL SANITARY LAYOUT - PART 1
1 : 50



S1 / H511 SECTION L5-S1
1 : 50



S2 / H511 SECTION L5-S2
1 : 50

Scale	A1= 1 : 50
Date	08/12/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	06-12-18	ILEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL	

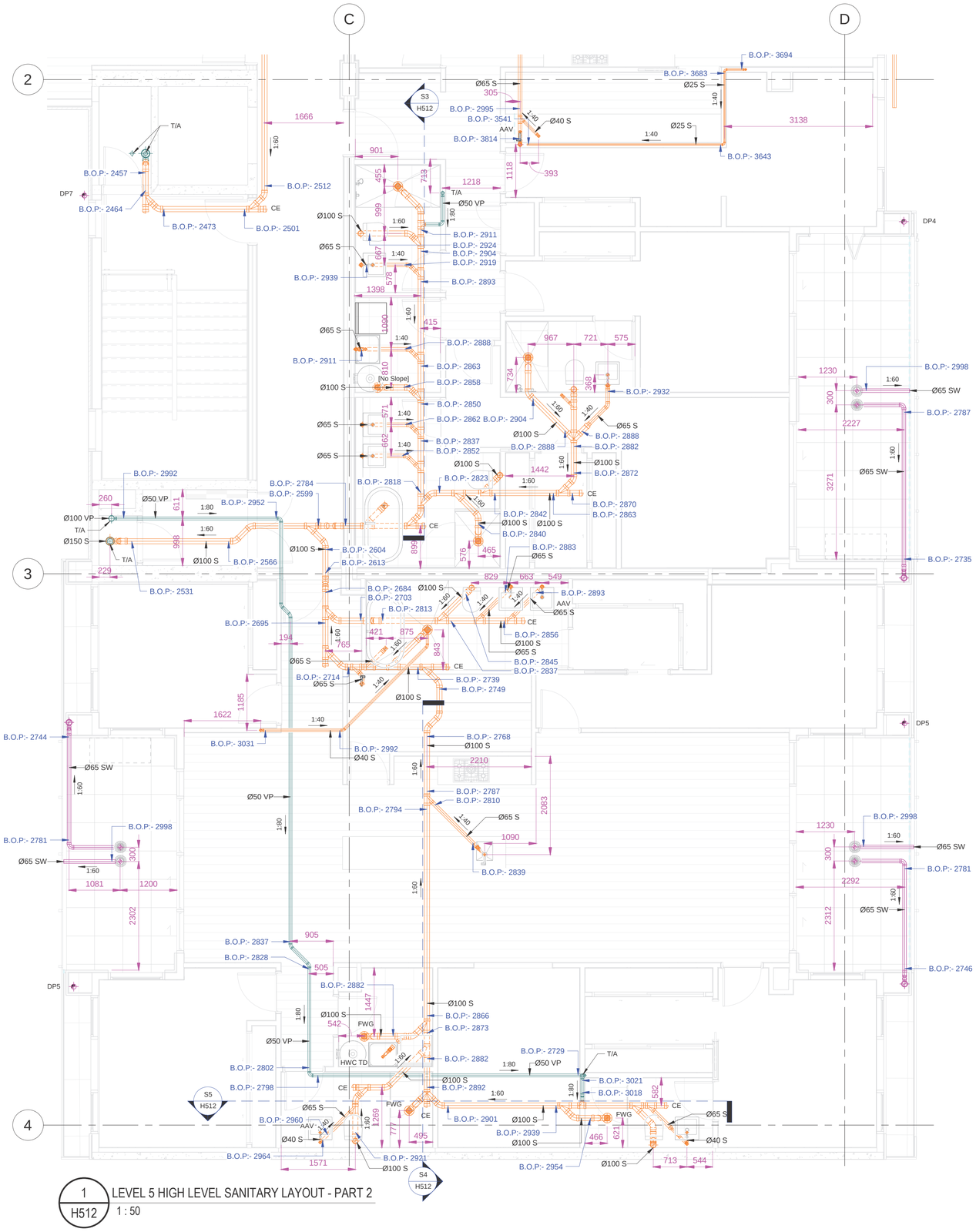
Job Name: Latitude Apartments
8-10 Park Street

Job Title: LEVEL 5 HIGH LEVEL SANITARY LAYOUT - PART 1

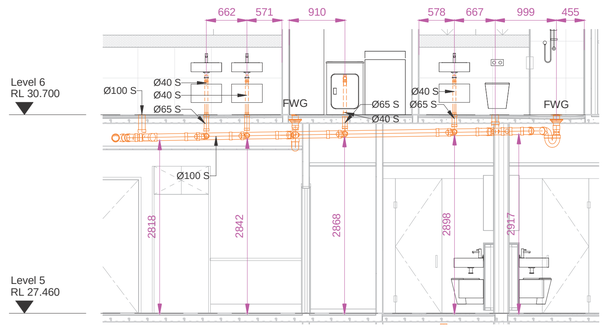
Drawing number: H511

Issue: A

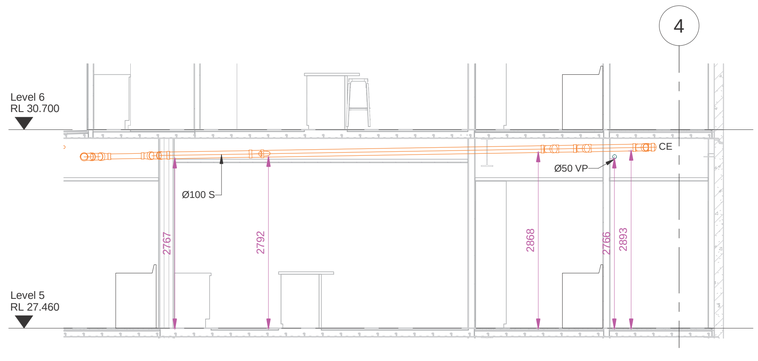
SILICON Engineering Consultants Ltd



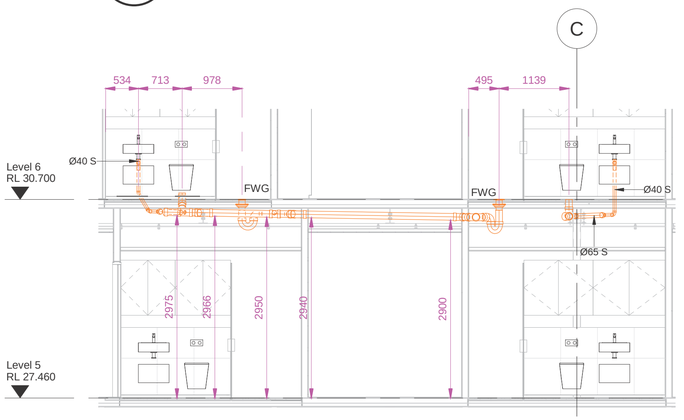
1 / H512 LEVEL 5 HIGH LEVEL SANITARY LAYOUT - PART 2
1 : 50



S3 / H512 SECTION L5-S3
1 : 50



S4 / H512 SECTION L5-S4
1 : 50



S5 / H512 SECTION L5-S5
1 : 50

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL	

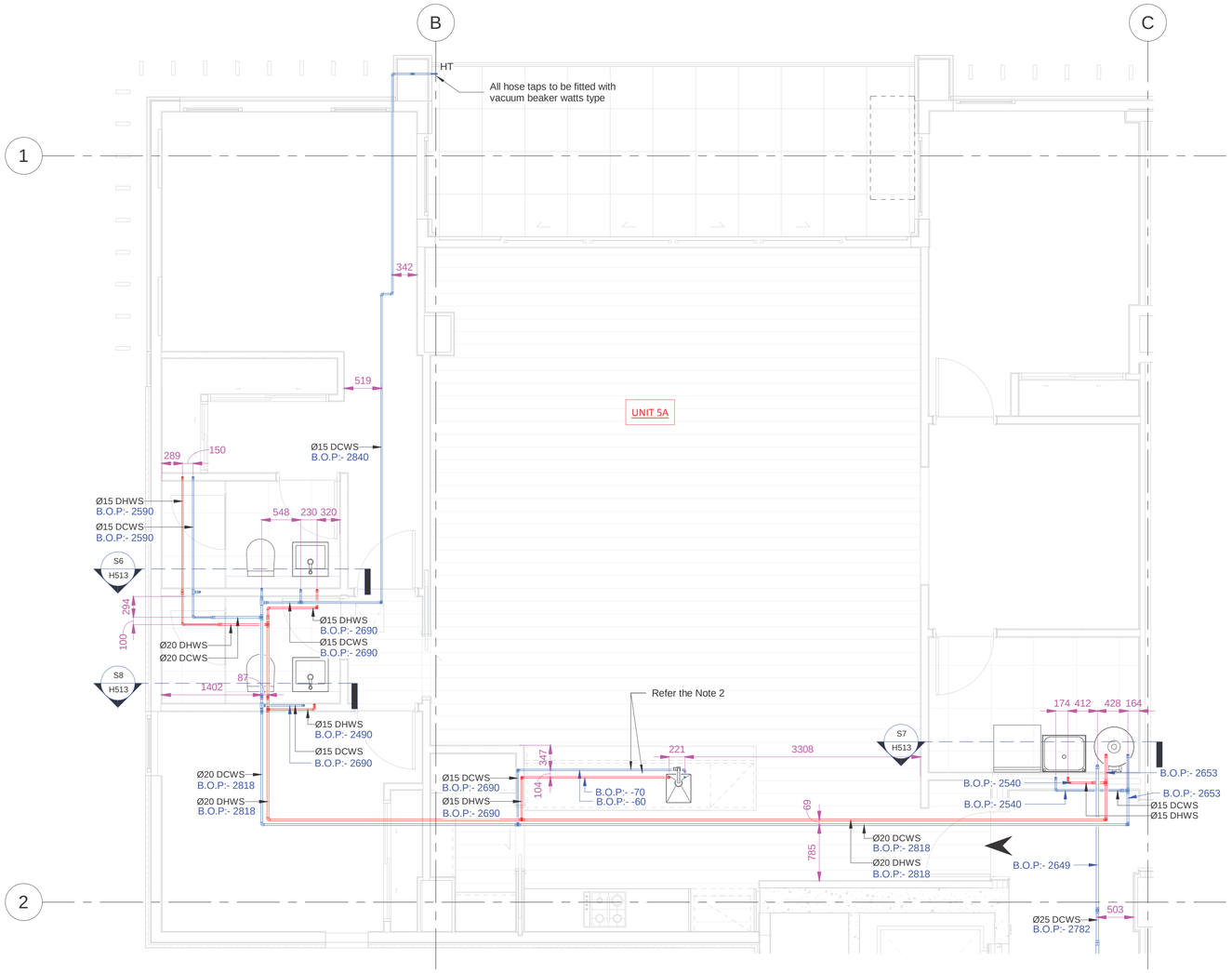
Scale	A1= 1 : 50
Date	08/12/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments, 8-10 Park Street

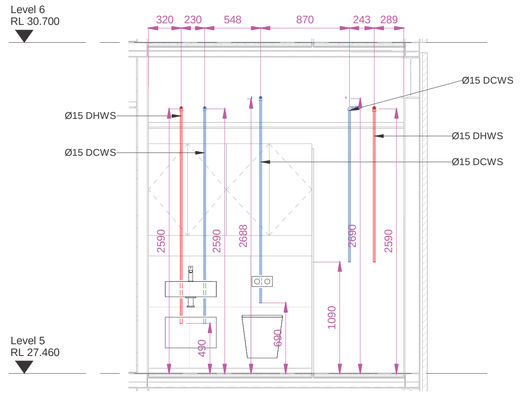
Job Title: LEVEL 5 HIGH LEVEL SANITARY LAYOUT - PART 2

Drawing number: H512

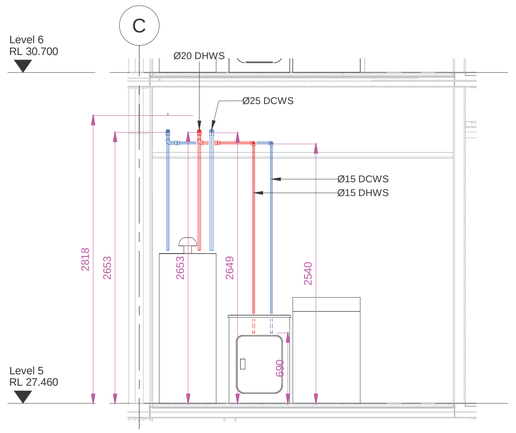
Issue: A



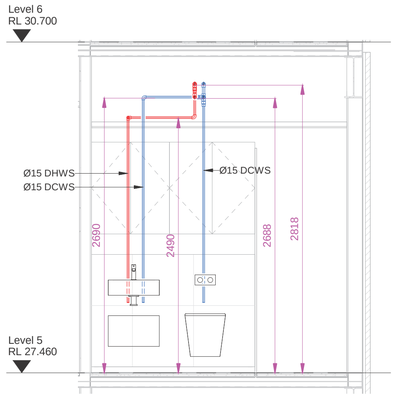
1 / H513 UNIT 5A - WATER SUPPLY LAYOUT
1 : 40



S6 / H513 SECTION L5-S6
1 : 30



S7 / H513 SECTION L5-S7
1 : 30



S8 / H513 SECTION L5-S8
1 : 30

WATER NOTES:

Pipework Installation
- All pipes must be kept as close as possible to the underside of the slab over. Do not install a pipe hanging 300mm below the slab if that same pipe can be installed 50mm below the slab.
- All pipes shall be installed, as applicable, to be straight, trues, level, plumb and parallel.

Water Reticulation
- All pipework shown as DN 25 and above shall be PPR 80 and the figures shown indicate internal diameter. Use minimum pipe strength of PN 9 for cold water and PN 16 for hot water. Fixing centes shall not exceed 20 times the pipe diameter.

Pipework Reticulation
- Use DN 15 Kembla pex tosupply single fixture to a maximum length of 3m. (Use DN 20 Kembla pex for lengths greater than 3m.) Use DN20 Kembla pex to supply two or more fixtures.

HT
- DN 15 Lockshield hose tap fixed on wall 750mm off affl. Provide Watts bhcv vacuum break to tap outlet. Fix to wall with dynabolts, do not use nylon fastners.

GENERAL NOTES:

1. Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
2. Pex Pipes embeded into the slab.
3. All the pipes level referance with their respective structural floor consider as +0.00.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL	

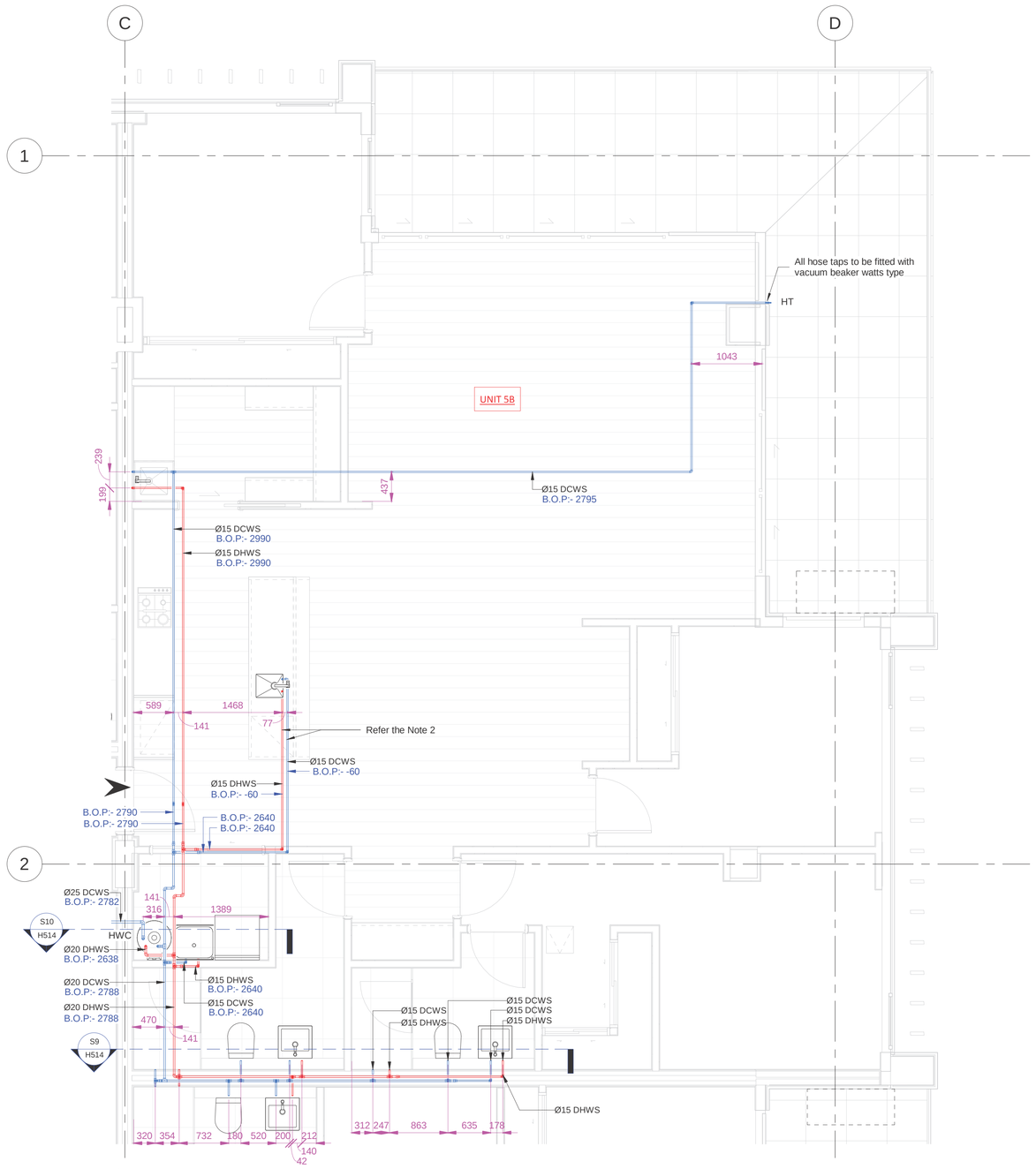
Scale	A1= As indicated
Date	08/12/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments, 8-10 Park Street

Job Title: UNIT 5A WATER SUPPLY LAYOUT

Drawing number: H513

Issue: A



1 / H514 UNIT 5B WATER SUPPLY LAYOUT
1 : 40

WATER NOTES:

Pipework Installation
- All pipes must be kept as close as possible to the underside of the slab over. Do not install a pipe hanging 300mm below the slab if that same pipe can be installed 50mm below the slab.
- All pipes shall be installed, as applicable, to be straight, trues, level, plumb and parallel.

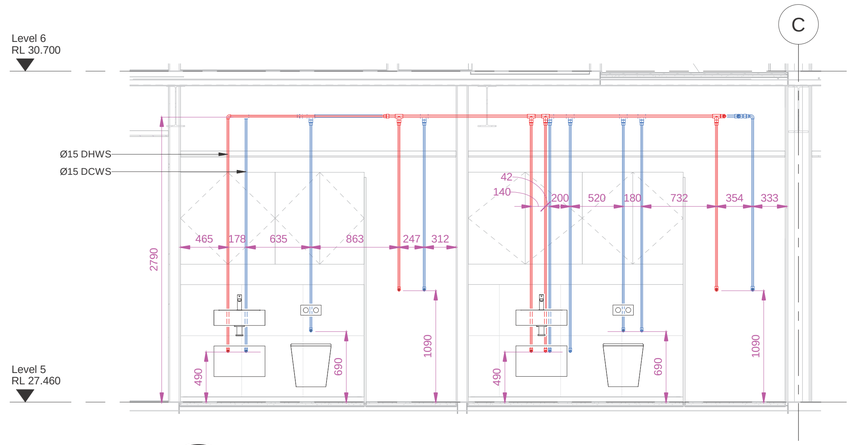
Water Reticulation
- All pipework shown as DN 25 and above shall be PPR 80 and the figures shown indicate internal diameter. Use minimum pipe strength of PN 9 for cold water and PN 16 for hot water. Fixing centes shall not exceed 20 times the pipe diameter.

Pipework Reticulation
- Use DN 15 Kembla pex tosupply single fixture to a maximum length of 3m. (Use DN 20 Kembla pex for lengths greater than 3m.) Use DN20 Kembla pex to supply two or more fixtures.

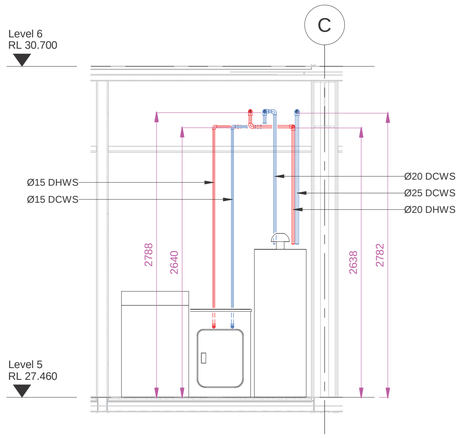
HT
- DN 15 Lockshield hose tap fixed on wall 750mm off affl. Provide Watts bhcv vacuum break to tap outlet. Fix to wall with dynabolts, do not use nylon fastners.

GENERAL NOTES:

1. Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
2. Pex Pipes embeded into the slab.
3. All the pipes level referance with their respective structural floor consider as +0.00.



S9 / H514 SECTION L5-S9
1 : 30



S10 / H514 SECTION L5-S10
1 : 30

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	08-12-18	[LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL]	

Scale	A1= As indicated
Date	08/12/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

Job Title: UNIT 5B WATER SUPPLY LAYOUT

Drawing number: H514

Issue: A

WATER NOTES:

Pipework Installation
- All pipes must be kept as close as possible to the underside of the slab over. Do not install a pipe hanging 300mm below the slab if that same pipe can be installed 50mm below the slab.
- All pipes shall be installed, as applicable, to be straight, trues, level, plumb and parallel.

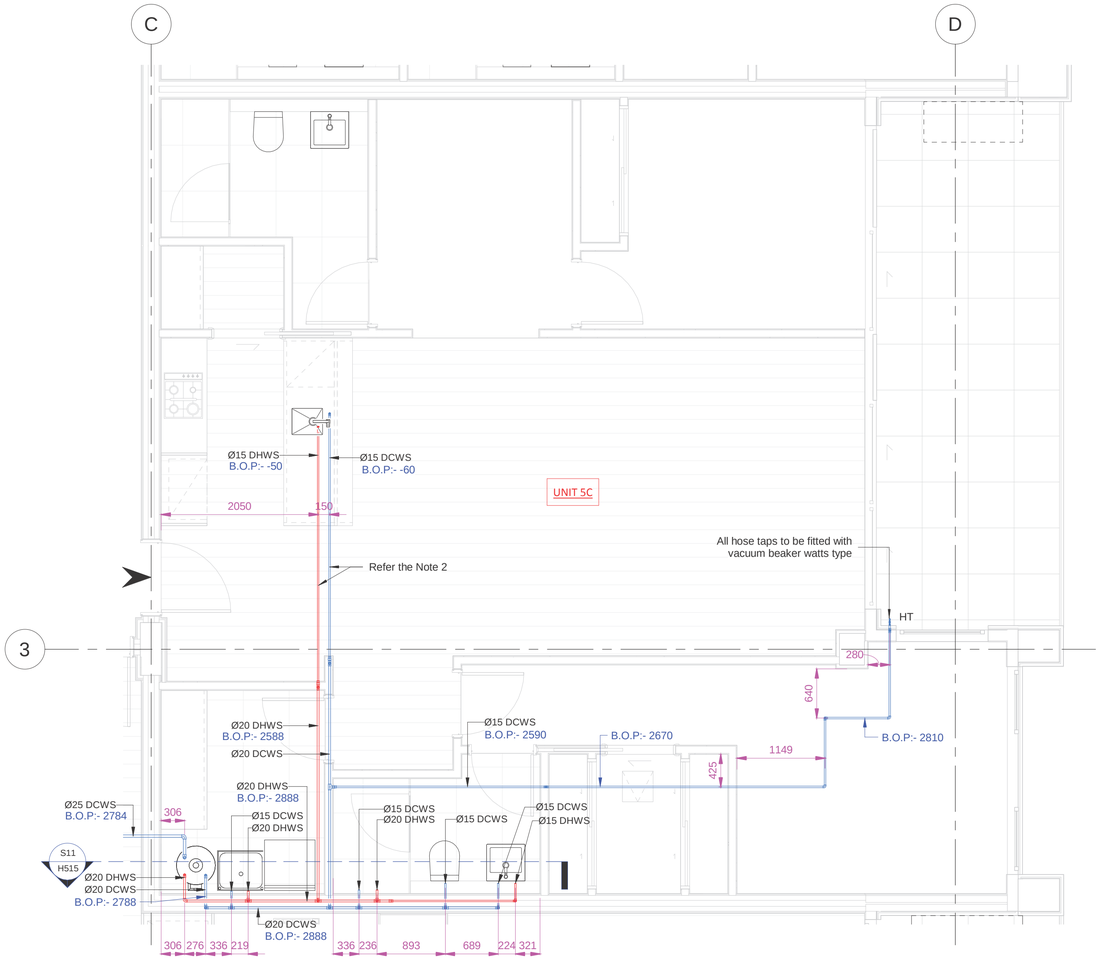
Water Reticulation
- All pipework shown as DN 25 and above shall be PPR 80 and the figures shown indicate internal diameter. Use minimum pipe strength of PN 9 for cold water and PN 16 for hot water. Fixing centes shall not exceed 20 times the pipe diameter.

Pipework Reticulation
- Use DN 15 Kembla pex tosupply single fixture to a maximum length of 3m. (Use DN 20 Kembla pex for lengths greater than 3m.) Use DN20 Kembla pex to supply two or more fixtures.

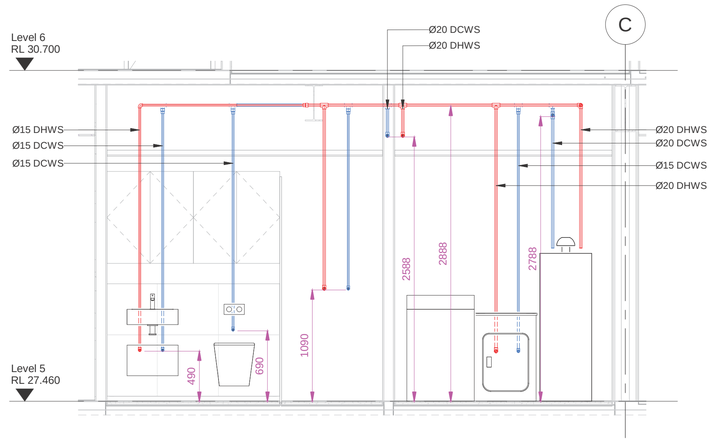
HT
- DN 15 Lockshield hose tap fixed on wall 750mm off affl. Provide Watts bhcv vacuum break to tap outlet. Fix to wall with dynabolts, do not use nylon fastners.

GENERAL NOTES:

1. Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
2. Pex Pipes embeded into the slab.
3. All the pipes level referance with their respective structural floor consider as +0.00.



1 / H515 UNIT 5C WATER SUPPLY LAYOUT
1 : 40



S11 / H515 SECTION L5-S11
1 : 30

Scale	A1= As indicated
Date	08/12/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL	

SILICON Engineering Consultants Ltd

Job Name: Latitude Apartments, 8-10 Park Street

Job Title: UNIT 5C WATER SUPPLY LAYOUT

Drawing number: H515

Issue: A

WATER NOTES:

Pipework Installation
- All pipes must be kept as close as possible to the underside of the slab over. Do not install a pipe hanging 300mm below the slab if that same pipe can be installed 50mm below the slab.
- All pipes shall be installed, as applicable, to be straight, trues, level, plumb and parallel.

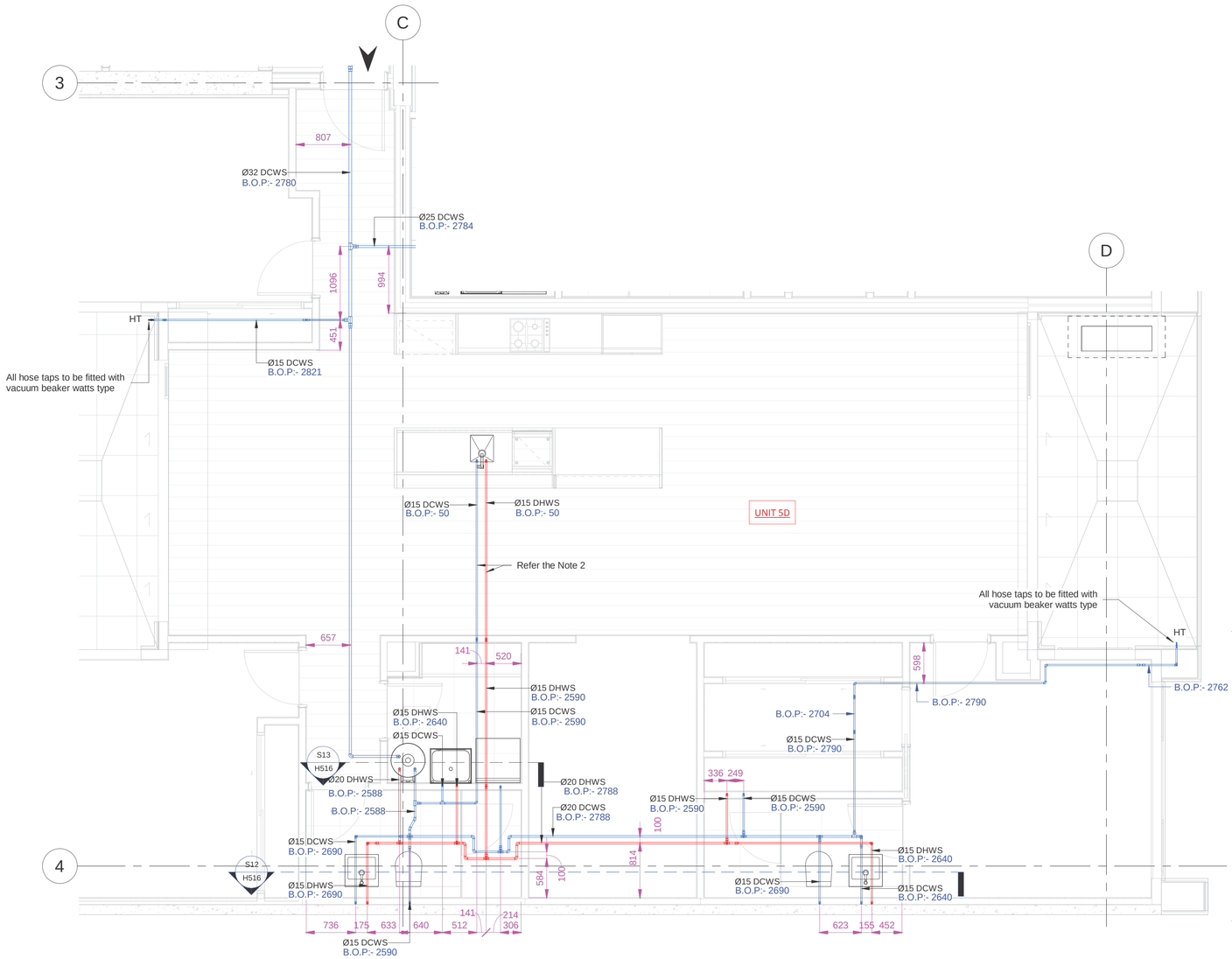
Water Reticulation
- All pipework shown as DN 25 and above shall be PPR 80 and the figures shown indicate internal diameter. Use minimum pipe strength of PN 9 for cold water and PN 16 for hot water. Fixing centes shall not exceed 20 times the pipe diameter.

Pipework Reticulation
- Use DN 15 Kembla pex tosupply single fixture to a maximum length of 3m. (Use DN 20 Kembla pex for lengths greater than 3m.) Use DN20 Kembla pex to supply two or more fixtures.

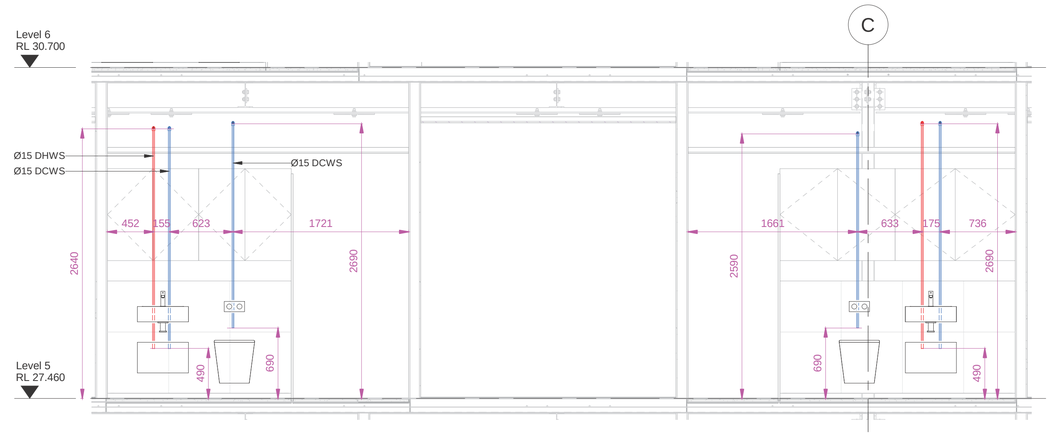
HT
- DN 15 Lockshield hose tap fixed on wall 750mm off affl. Provide Watts bhcv vacuum break to tap outlet. Fix to wall with dynabolts, do not use nylon fastners.

GENERAL NOTES:

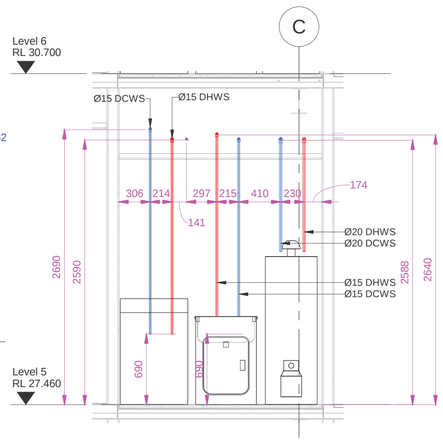
1. Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
2. Pex Pipes embeded into the slab.
3. All the pipes level referance with their respective structural floor consider as +0.00.



1 / H516 UNIT 5D WATER SUPPLY LAYOUT
1 : 40



S12 / H516 SECTION L5-S12
1 : 30



S13 / H516 SECTION L5-S13
1 : 30

		Scale	A1= As indicated
		Date	08/12/2018
		Drawn	RS
		Checked	TP
		Approved	TP
A	08-12-18	Job No.	FBB1090
ISSUE	DATE	REVISION DESCRIPTION	INITIALS

SILICON Engineering Consultants Ltd

Job Name: Latitude Apartments, 8-10 Park Street

Job Title: UNIT 5D WATER SUPPLY LAYOUT

Drawing number: H516

Issue: A

SHEET LIST

SHEET NUMBER	SHEET NAME	REVISION	REVISION DATE	CURRENT REVISION DESCRIPTION
H000	COVER PAGE & SHEET LIST	F	10-12-18	LEVEL 6 SHOP DRAWINGS ADDED
H001	LEGEND	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H101A	LEVEL 1 HIGH LEVEL SANITARY SERVICES LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H101B	LEVEL 1 WATER RETICULATION LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H111	LEVEL 1 HIGH LEVEL SANITARY LAYOUT PART 1 & SECTIONS	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H112	LEVEL 1 HIGH LEVEL SANITARY LAYOUT PART 2 & SECTIONS	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H113	UNIT 1A WATER SUPPLY LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H114	UNIT 1B WATER SUPPLY LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H115	UNIT 1C WATER SUPPLY LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H116	UNIT 1D WATER SUPPLY LAYOUT	A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL
H201A	LEVEL 2 HIGH LEVEL SANITARY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H201B	LEVEL 2 WATER RETICULATION LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H211	LEVEL 2 HIGH LEVEL SANITARY LAYOUT PART 1 & SECTIONS	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H212	LEVEL 2 HIGH LEVEL SANITARY LAYOUT PART 2 & SECTIONS	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H213	UNIT 2A WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H214	UNIT 2B WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H215	UNIT 2C WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H216	UNIT 2D WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H217	UNIT 2E WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H218	UNIT 2F WATER SUPPLY LAYOUT	A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL
H301A	LEVEL 3 HIGH LEVEL SANITARY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H301B	LEVEL 3 WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H311	LEVEL 3 HIGH LEVEL SANITARY LAYOUT - PART 1	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H312	LEVEL 3 HIGH LEVEL SANITARY LAYOUT - PART 2	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H313	LEVEL 3 HIGH LEVEL SANITARY SECTION	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H314	UNIT 3A WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H315	UNIT 3B WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H316	UNIT 3C WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H317	UNIT 3D WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H318	UNIT 3E WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H319	UNIT 3F WATER SUPPLY LAYOUT	A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL
H401A	LEVEL 4 HIGH LEVEL SANITARY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H401B	LEVEL 4 WATER SUPPLY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H411	LEVEL 4 HIGH LEVEL SANITARY LAYOUT - PART 1	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H412	LEVEL 4 HIGH LEVEL SANITARY LAYOUT - PART 2	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H413	UNIT 4A WATER SUPPLY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H414	UNIT 4B WATER SUPPLY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H415	UNIT 4C WATER SUPPLY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H416	UNIT 4D WATER SUPPLY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H417	UNIT 4E WATER SUPPLY LAYOUT	A	03-12-18	LEVEL 4 SHOP DRAWING - ISSUED FOR APPROVAL
H501A	LEVEL 5 HIGH LEVEL SANITARY LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
H501B	LEVEL 5 WATER SUPPLY LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
H511	LEVEL 5 HIGH LEVEL SANITARY LAYOUT - PART 1	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
H512	LEVEL 5 HIGH LEVEL SANITARY LAYOUT - PART 2	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
H513	UNIT 5A WATER SUPPLY LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
H514	UNIT 5B WATER SUPPLY LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
H515	UNIT 5C WATER SUPPLY LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
H516	UNIT 5D WATER SUPPLY LAYOUT	A	08-12-18	LEVEL 5 SHOP DRAWING - ISSUED FOR APPROVAL
H601B	LEVEL 6 WATER SUPPLY LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL
H611	UNIT 6A WATER SUPPLY LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL
H612	UNIT 6B WATER SUPPLY LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL
H613	UNIT 6C WATER SUPPLY LAYOUT	A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL

F

PORJECT NAME : LATITUDE APARTMENTS

PORJECT NO. : FBB1090

HYDRAULIC SERVICES

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
F	10-12-18	LEVEL 6 SHOP DRAWINGS ADDED	
E	08-12-18	LEVEL 5 SHOP DRAWINGS ADDED	
D	03-12-18	LEVEL 4 SHOP DRAWINGS ADDED	
C	30-11-18	LEVEL 3 SHOP DRAWINGS ADDED	
B	28-11-18	LEVEL 2 SHOP DRAWINGS ADDED	
A	26-11-18	LEVEL 1 SHOP DRAWINGS ADDED	

Scale	A1=
Date	26/11/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

Job Title: COVER PAGE & SHEET LIST

Drawing number: H000

Issue: F

ABBRIVATIONS :-

AAV : Air Admittance Valve
AFFL : Above Finished Floor Level
A/G : Above Ground
B : Bath
BDT : Bidet
BFFL : Below Finished Floor Level
BFP : Back Flow Preventer
BIFO : Blucher Industrial Floor Outlet
BO : Balcony Outlet
BSK : Bar Sink
CD : Condensate Drain
CE : Cleaning Eye
COS : Clear Out to Surface
CP : Catch Pit
CSP : Cess Pit
Cu : Copper
CW : Cold Water
CWEX : Cold Water Expansion Valve
CWR : Cold Water Riser
DCV : Couble Check Valve
DCW : Domestic Cold Water
DD : Dish Drawer
DF : Drinking Fountain
DHW : Domestic Hot Water
DHWF :Domestic Hot Water Flow
DHWR : Domestic Hot Water Return
DN : Diameter of Pipe - Nominal
DP : Down Pipe
DW : Dish Washer
EX : Existing
F/A : From Above
F/B : From Below
FFL : Finished Floor Level
FGL : Finished Ground Level
FH : Fire Hydrant
FHR :Fire Hose Reel
FWG :Floor Waste Gully
GIT :Grease Interceptor Trap
GV : Group Vent
GVB : Group Vented Branch
GW : Glass Washer
HB : Hand Basin
HCVB : Hose Connection Vacuum Breaker
HDPE : High Density Polyethylene
HR : Hose Reel
HT : Hose Tap (Cold Water)
HW : Hot Water
HWC : Hot Water Cylinder (Electric)
HWD : Hot Water Dropper
HWEX : Hot Water Expansion Valve
HWHT : Hot Water Hose Tap
HWU : Hot Water Unit (Gas)
IB : Inspection Bend
IJ : Inspection Joint
IL : Invert Level
IO : Inspection Opening
IV : Isolating Valve
LS : Line Strainer
LT : Laundary Tub
MDPE : Medium Density Polyethylene
MH : Manhole
MS : Mains Supply
NPCW : Non-Potable Cold Water
NPHW : Non Potable Hot Water
NRV : Non Return Valve
O/F : Over Flow
ORG : Overflow Relief Gulley
OS&Y : Outside Screw and Yoke
PBO : Planter Box Outlet
PE : Polyethylene
PEX : Cross Linked Polyethylene

PLV : Pressure Limiting Valve
PPR : Random Polypropylene
RCP : Reinforced Concrete Pipe
RL : Reduced Level
RP : Rodding Point
RPZ : Reduced Pressure Zone (BFP)
RRJ : Rubber Ring Jointed
RWH : Rain Water Head
RWO : Rain Water Outlet
RWS : Rain Water Sump
SDO : Spoon Drain Outlet
SH : Soak Hole
S : Sanitary Pipe
SK : Sink
SLS : Sluice Sink
SLV : Sluice Valve
S/S : Stainles Steel
SS : Sanitary Sewer
SSMH : Sanitary Sewer Manhole
SU : Stub Up
SV :Stop Valve
SW : Storm Water
SWMH: Storm Water Manhole
T/A : To Above
T/B : To Below
TD : Tundish
TV : Terminal Vent
U/G : Under Ground
UGT : Under Bench Grease Trap
UR : Urinal
V/A : Valve Assembly - See Drawing
VCP :Vitrified Clay Pipe
VHB :Vanity Hand Basin
VP :Vent Pipe
W&T : Waste and Trap
WBU : Water Boiling Unit
WC : Water Closet
WHB : Wash Hand Basin
WM : Washing Machine
WP : Water Pipe

: Unit Entry Direction

DRAINS AND TRAPS

CD : Condensate Drain

TD : Tundish

GT : Gulley Trap

ORG : Overflow Relief Gulley

GIT : Grease Interceptor Trap

FWG : Channel Drain c/w FWG

: Traps - (Schematics)

: Traps - (Schematics)

FWG : Floor Waste Gulley

FWO : Floor Waste Outlet

RWO : Rain Water Outlet (RWO) / Planter Box Outlet (PBO) / Balcony Outlet (BO) As Noted

CSP1 : 450 x 450 Cess Pit Ø100 Half Siphon Outlet

CSP2 :675 x 450 Cess Pit Ø150 Half Siphon Outlet

OPERATION

: Direction of Flow

FALL:1:100 : Pipe Fall

: Concentric Reducer

: Eccentric Reducer

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL	

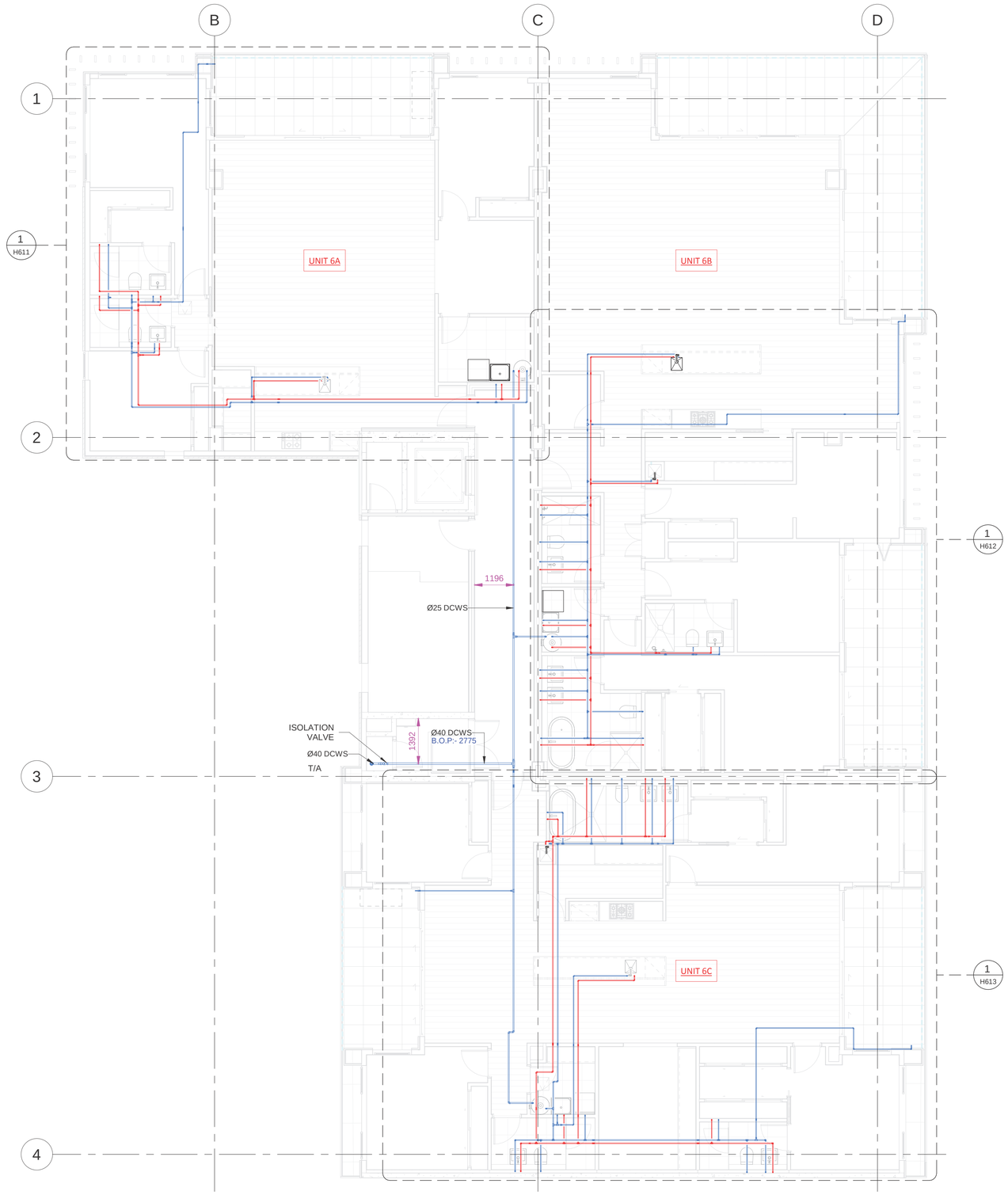
Scale	A1= 1 : 50
Date	26-11-2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments, 8-10 Park Street

Job Title: LEGEND

Drawing number: H001

Issue: A



1 / H601B LEVEL 06 WATER SUPPLY LAYOUT
1 : 75

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL	

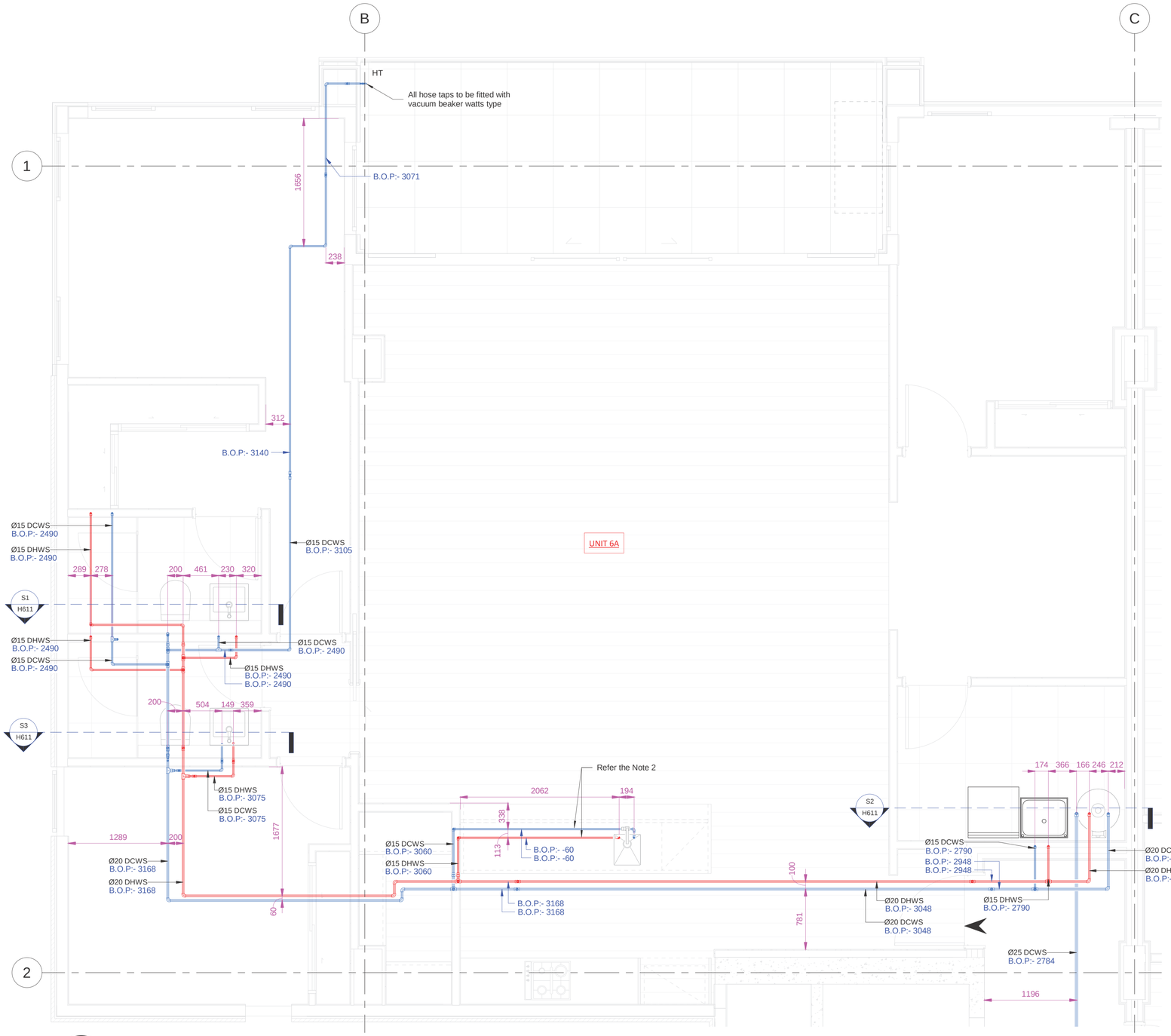
Scale	A1= 1 : 75
Date	10/12/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

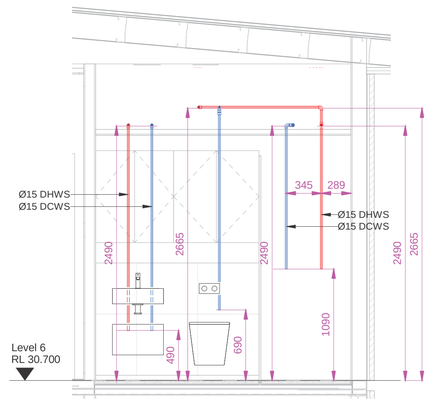
Job Title: LEVEL 6 WATER SUPPLY LAYOUT

Drawing number: H601B

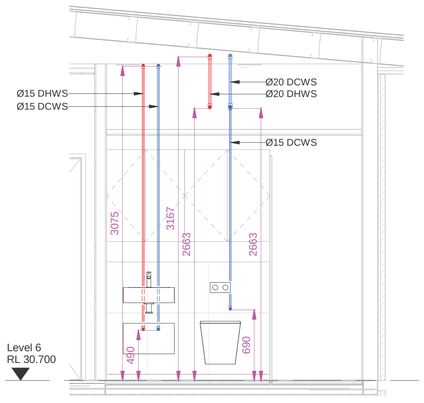
Issue: A



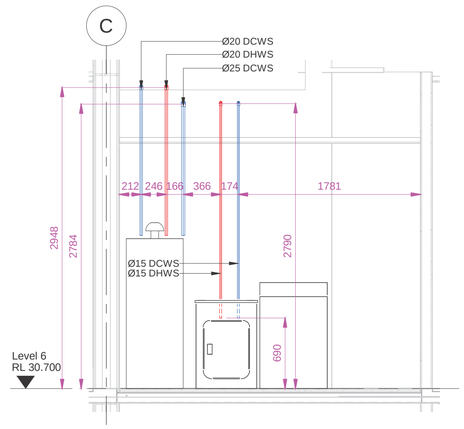
1 / H611 UNIT 6A WATER SUPPLY LAYOUT
1 : 30



S1 / H611 SECTION L6-S1
1 : 30



S3 / H611 SECTION L6-S3
1 : 30



S2 / H611 SECTION L6-S2
1 : 30

WATER NOTES:

Pipework Installation
- All pipes must be kept as close as possible to the underside of the slab over. Do not install a pipe hanging 300mm below the slab if that same pipe can be installed 50mm below the slab.
- All pipes shall be installed, as applicable, to be straight, trues, level, plumb and parallel.

Water Reticulation
- All pipework shown as DN 25 and above shall be PPR 80 and the figures shown indicate internal diameter. Use minimum pipe strength of PN 9 for cold water and PN 16 for hot water. Fixing centes shall not exceed 20 times the pipe diameter.

Pipework Reticulation
- Use DN 15 Kembla pex tosupply single fixture to a maximum length of 3m. (Use DN 20 Kembla pex for lengths greater than 3m.) Use DN20 Kembla pex to supply two or more fixtures.

HT
- DN 15 Lockshield hose tap fixed on wall 750mm off affl. Provide Watts bhcv vacuum break to tap outlet. Fix to wall with dynabolts, do not use nylon fastners.

GENERAL NOTES:

1. Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
2. Pex Pipes embeded into the slab.
3. All the pipes level reference with their respective structural floor consider as +0.00.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL	

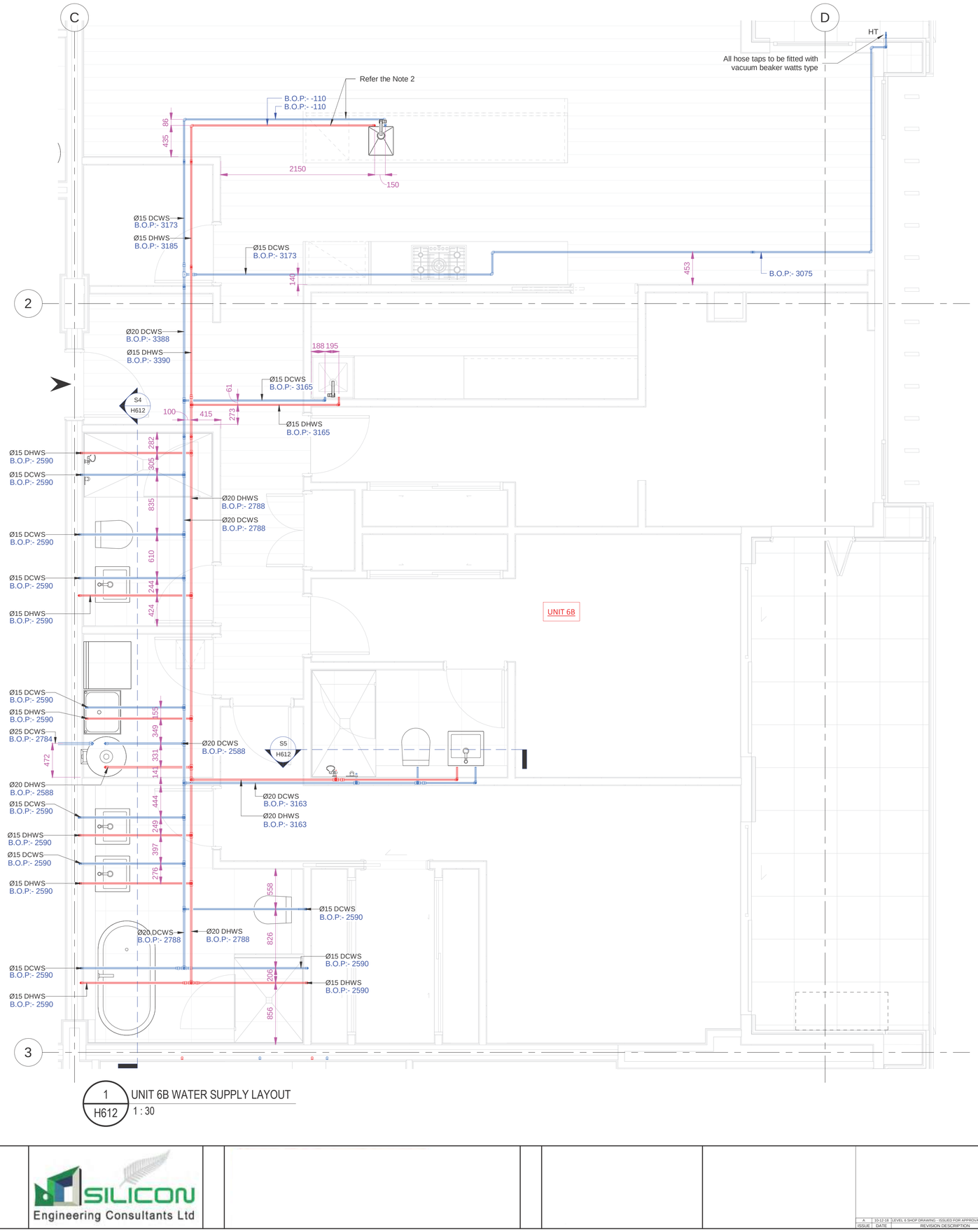
Scale	A1= As indicated
Date	10/12/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments, 8-10 Park Street

Job Title: UNIT 6A WATER SUPPLY LAYOUT

Drawing number: H611

Issue: A



WATER NOTES:

Pipework Installation

- All pipes must be kept as close as possible to the underside of the slab over. Do not install a pipe hanging 300mm below the slab if that same pipe can be installed 50mm below the slab.
- All pipes shall be installed, as applicable, to be straight, trues, level, plumb and parallel.

Water Reticulation

- All pipework shown as DN 25 and above shall be PPR 80 and the figures shown indicate internal diameter. Use minimum pipe strength of PN 9 for cold water and PN 16 for hot water. Fixing centes shall not exceed 20 times the pipe diameter.

Pipework Reticulation

- Use DN 15 Kembla pex tosupply single fixture to a maximum length of 3m. (Use DN 20 Kembla pex for lengths greater than 3m.)
  Use DN20 Kembla pex to supply two or more fixtures.

HT

- DN 15 Lockshield hose tap fixed on wall 750mm off affl. Provide Watts bhcv vacuum break to tap outlet. Fix to wall with dynabolts, do not use nylon fastners.

GENERAL NOTES:

1. Hydraulic services contractor to gain approval from structural engineer prior to saw cutting or core-holing any structural components.
2. Pex Pipes embeded into the slab.
3. All the pipes level reference with their respective structural floor consider as +0.00.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL	

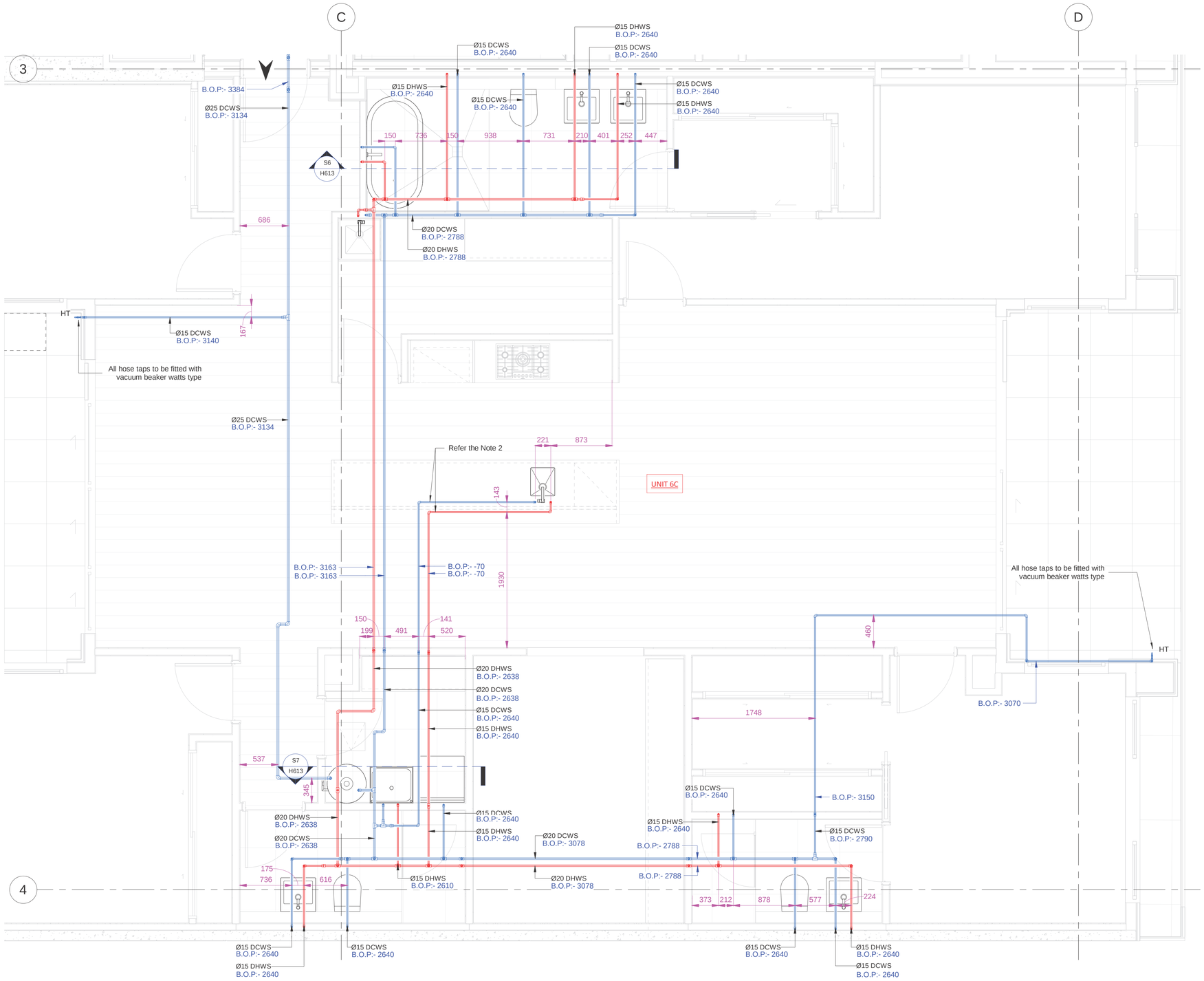
Scale	A1= As indicated
Date	10/12/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

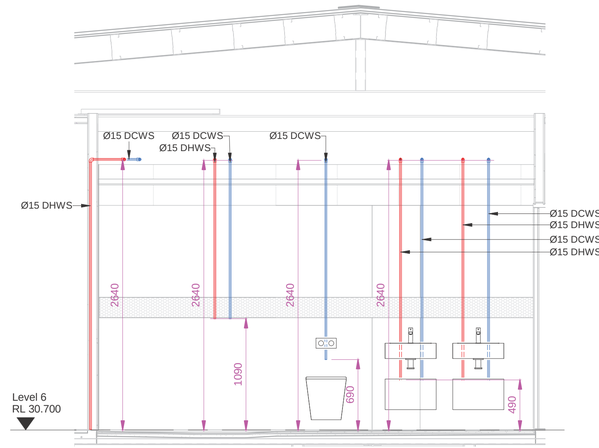
Job Title: UNIT 6B WATER SUPPLY LAYOUT

Drawing number: H612

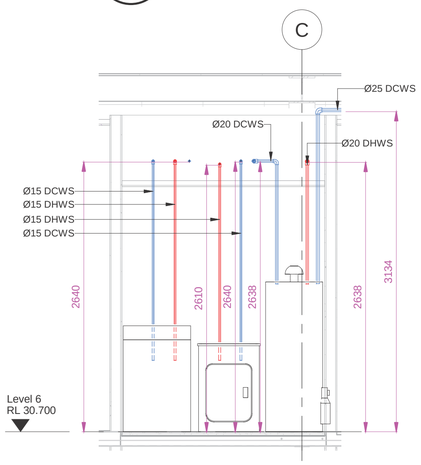
Issue: A



1 / H613 UNIT 6C WATER SUPPLY LAYOUT
1 : 30



S6 / H613 SECTION L6-S6
1 : 30



S7 / H613 SECTION L6-S7
1 : 30

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1= 1 : 30
Date	10/12/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartments
8-10 Park Street

Job Title: UNIT 6C WATER SUPPLY LAYOUT

Drawing number: H613

Issue: A

SHEET LIST

SHEET NUMBER	SHEET NAME	ISSUE	ISSUED DATE	CURRENT ISSUED DESCRIPTION
M000	COVER PAGE & SHEET LIST	G	18-12-18	BASEMENT SHOP DRAWING ADDED
M001	BASEMENT - CARPARK EXHAUST LAYOUT SHEET 1	A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL
M002	BASEMENT - CARPARK EXHAUST LAYOUT SHEET 2	A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL
M003	BASEMENT - CARPARK GENERAL SECTIONS	A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL
M004	BASEMENT - CARPARK GENERAL SECTIONS	A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL
M005	RISER SECTIONS LAYOUT	A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL
M101	LEVEL 1 HVAC LAYOUT SHEET 1	A	26-11-18	LEVEL-1 SHOP DRAWING - ISSUED FOR APPROVAL
M102	LEVEL 1 HVAC LAYOUT SHEET 2	A	26-11-18	LEVEL-1 SHOP DRAWING - ISSUED FOR APPROVAL
M103	LEVEL 1 HVAC SECTIONAL VIEW	A	26-11-18	LEVEL-1 SHOP DRAWING - ISSUED FOR APPROVAL
M201	LEVEL 2 HVAC LAYOUT SHEET 1	A	28-11-18	LEVEL-2 SHOP DRAWING - ISSUED FOR APPROVAL
M202	LEVEL 2 HVAC LAYOUT SHEET 2	A	28-11-18	LEVEL-2 SHOP DRAWING - ISSUED FOR APPROVAL
M203	LEVEL 2 HVAC SECTIONAL VIEW	A	28-11-18	LEVEL-2 SHOP DRAWING - ISSUED FOR APPROVAL
M301	LEVEL 3 HVAC LAYOUT SHEET 1	A	30-11-18	LEVEL-3 SHOP DRAWING - ISSUED FOR APPROVAL
M302	LEVEL 3 HVAC LAYOUT SHEET 2	A	30-11-18	LEVEL-3 SHOP DRAWING - ISSUED FOR APPROVAL
M303	LEVEL 3 HVAC SECTIONAL VIEW	A	30-11-18	LEVEL-3 SHOP DRAWING - ISSUED FOR APPROVAL
M401	LEVEL 4 HVAC LAYOUT SHEET 1	A	03-12-18	LEVEL-4 SHOP DRAWING - ISSUED FOR APPROVAL
M402	LEVEL 4 HVAC LAYOUT SHEET 2	A	03-12-18	LEVEL-4 SHOP DRAWING - ISSUED FOR APPROVAL
M403	LEVEL 4 HVAC SECTIONAL VIEW	A	03-12-18	LEVEL-4 SHOP DRAWING - ISSUED FOR APPROVAL
M501	LEVEL 5 HVAC LAYOUT SHEET 1	A	08-12-18	LEVEL-5 SHOP DRAWING - ISSUED FOR APPROVAL
M502	LEVEL 5 HVAC LAYOUT SHEET 2	A	08-12-18	LEVEL-5 SHOP DRAWING - ISSUED FOR APPROVAL
M503	LEVEL 5 HVAC SECTIONAL VIEW	A	08-12-18	LEVEL-5 SHOP DRAWING - ISSUED FOR APPROVAL
M601	LEVEL 6 HVAC LAYOUT SHEET 1	A	10-12-18	LEVEL-6 SHOP DRAWING - ISSUED FOR APPROVAL
M602	LEVEL 6 HVAC LAYOUT SHEET 2	A	10-12-18	LEVEL-6 SHOP DRAWING - ISSUED FOR APPROVAL
M603	LEVEL 6 HVAC SECTIONAL VIEW	A	10-12-18	LEVEL-6 SHOP DRAWING - ISSUED FOR APPROVAL

G

PROJECT NAME : LATITUDE APARTMENT

PROJECT NO. : FBB1090

MECHANICAL SERVICES

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
G	18-12-18	BASEMENT SHOP DRAWING ADDED	
F	10-12-18	LEVEL 6 SHOP DRAWING ADDED	
E	08-12-18	LEVEL 5 SHOP DRAWING ADDED	
D	03-12-18	LEVEL 4 SHOP DRAWING ADDED	
C	30-11-18	LEVEL 3 SHOP DRAWING ADDED	
B	28-11-18	LEVEL 2 SHOP DRAWING ADDED	
A	26-11-18	LEVEL 1 SHOP DRAWING ADDED	

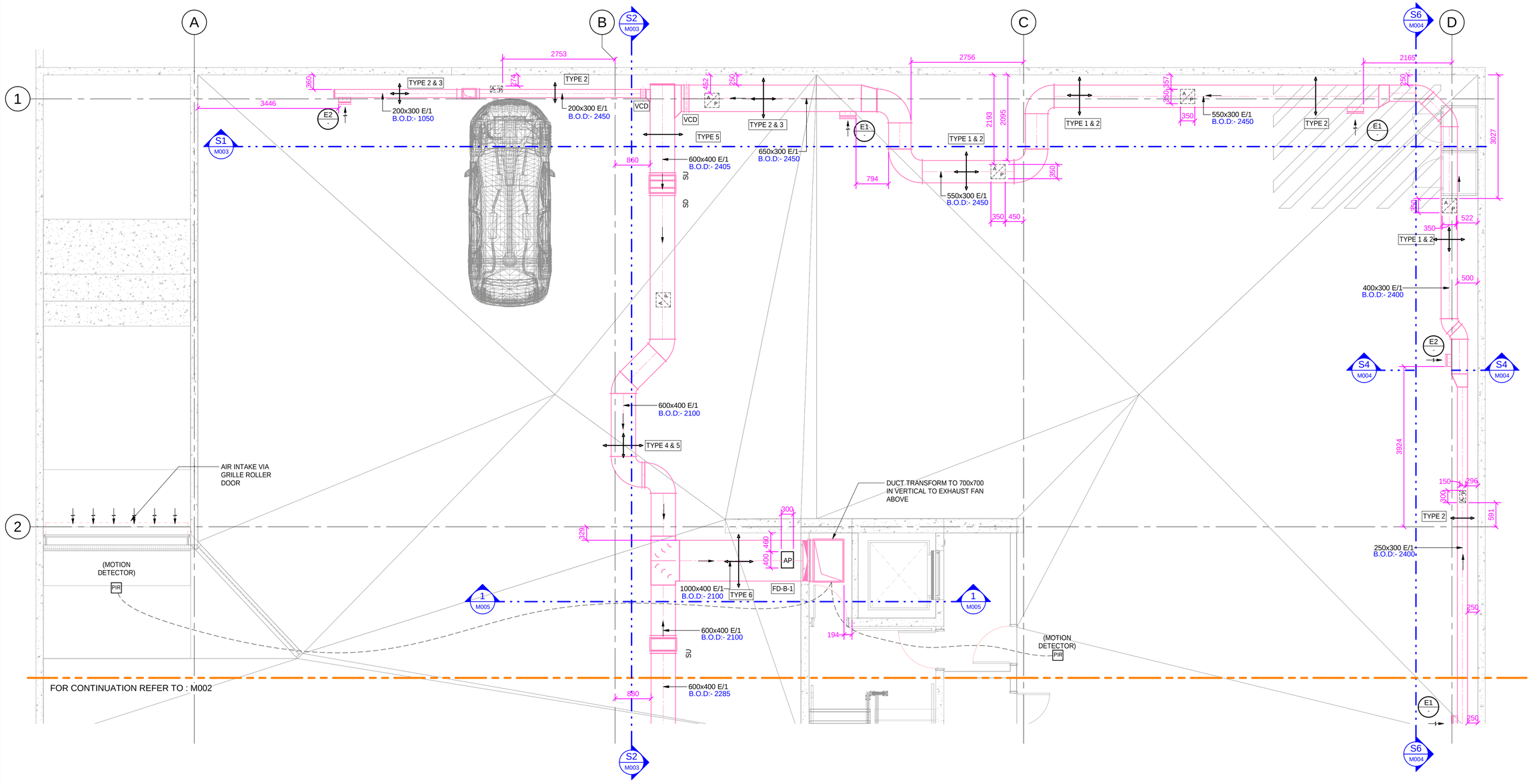
Scale	A1=
Date	26-11-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

Job Title: COVER PAGE & SHEET LIST

Drawing number: M000

Issue: G



LEGEND:-	
	(S) SUPPLY AIR DUCT
	(E) EXHAUST AIR DUCT
	(OA) OUTDOOR AIR DUCT
	(R) RETURN AIR DUCT
	AV REFRIGERANT PIPE
B.O.D	BOTTOM OF DUCT
B.O.P	BOTTOM OF PIPE
FD	FIRE DAMPER
ACU	AIR CONDITIONER UNIT
ODU	OUTDOOR UNIT
SF	SUPPLY FAN
EF	EXHAUST FAN
UC	DOOR UNDERCUT
AP	ACCESS PANEL (400x400)
SU	SET UP
SD	SET DOWN
T	THERMOSTAT
	FLOW DIRECTION
	AIR FLOW
S2	GRILLE REFERNCE
200	AIR VOLUME (L/S)
	CEILING GRILLE / DIFFUSER (CIRCULAR)
	OUT DOOR EXHAUST GRILLE
	CEILING GRILLE / DIFFUSER (SQUARE)
	CEILING RETURN / EXHAUST GRILLE
	SIDE WALL GRILLE / DIFFUSER
	VCD-VOLUME CONTROL DAMPER

1 M001 PART PLAN - BASEMENT LEVEL

1 : 50

NOTE: CARPARK VENTILATION CONTROL

- VENT FAN ACTIVATED BY PIR (BY MOTION DETECTOR), FAN TO OPERATE AT 3330 L/S (100%)
- VENT FAN RAMP DOWN AFTER PIR HAS DETECTED NO MOTION FOR 10 MIN, FAN TO OPERATE AT 380 L/S (APPROX 10%)

SEISMIC DENOTES:	TYPE
	SEISMIC RESTRAINT (TRANSVERSE AND LONGITUDINAL)
	SEISMIC RESTRAINT (TRANSVERSE OR LONGITUDINAL)
REFER TO SEISMIC RESTRAINT DRAWINGS: 2017-C15-HVAC-011 AND 12	

GENERAL NOTES:

1. B.O.D (BOTTOM OF DUCTS) & B.O.P (BOTTOM OF PIPES) ARE GIVEN FROM STRUCTURAL LEVEL
2. CEILING ACCESS PANEL FOR DAMPERS AND EQUIPMENT. ARCHITETURAL CONTRACTORS TO BE CONFIRM.
3. ALL CEILING HEIGHTS SHOWN THUS: 2400
4. UC = DOOR UNDERCUT 20MM
5. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN RUN ON TIMER.
6. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN ON TIMER

INSULATION NOTES:-

1 - PLAIN GMS
2 - GMS c/w 25MM INT. INSULATION
3 - GMS c/w 50MM INT. INSULATION
4 - GMS c/w 25MM EXT. INSULATION
5 - GMS c/w 50MM EXT. INSULATION
6 - PVC OR SIMILAR

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL	

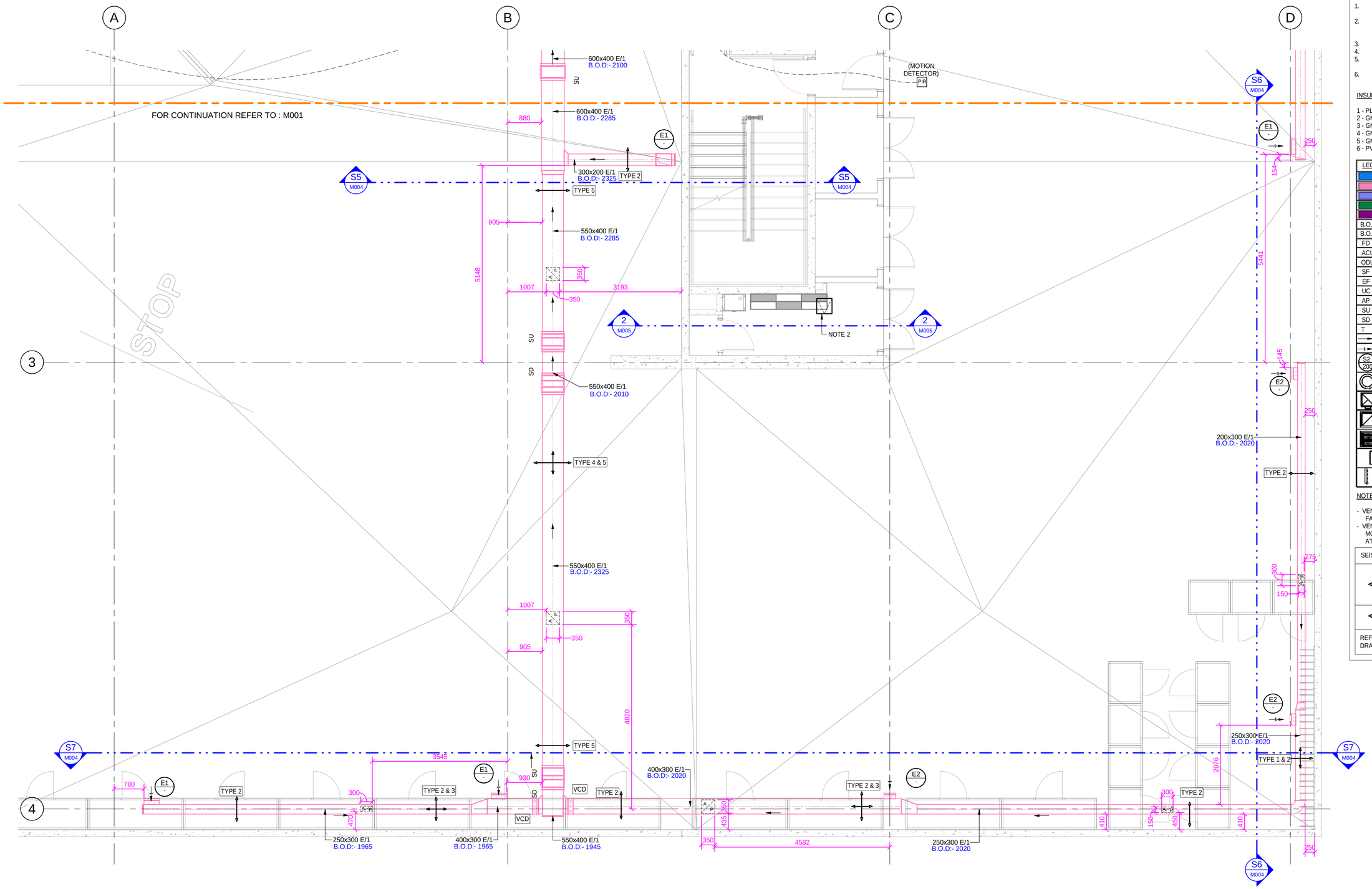
Scale	A1=As indicated
Date	18-12-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

Job Title: BASEMENT - CARPARK EXHAUST LAYOUT SHEET 1

Drawing number: M001

Issue: A



2 M002 PART PLAN - BASEMENT

1 : 50

GENERAL NOTES:

1. B.O.D (BOTTOM OF DUCTS) & B.O.P (BOTTOM OF PIPES) ARE GIVEN FROM STRUCTURAL LEVEL
2. CEILING ACCESS PANEL FOR DAMPERS AND EQUIPMENT. ARCHITETURAL CONTRACTORS TO BE CONFIRM.
3. ALL CEILING HEIGHTS SHOWN THUS: 2400
4. UC = DOOR UNDERCUT 20MM
5. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN RUN ON TIMER.
6. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN ON TIMER

INSULATION NOTES:-

1 - PLAIN GMS
2 - GMS c/w 25MM INT. INSULATION
3 - GMS c/w 50MM INT. INSULATION
4 - GMS c/w 25MM EXT. INSULATION
5 - GMS c/w 50MM EXT. INSULATION
6 - PVC OR SIMILAR

LEGEND:-	
	(S) SUPPLY AIR DUCT
	(E) EXHAUST AIR DUCT
	(OA) OUTDOOR AIR DUCT
	(R) RETURN AIR DUCT
	AV REFRIGERANT PIPE
B.O.D	BOTTOM OF DUCT
B.O.P	BOTTOM OF PIPE
FD	FIRE DAMPER
ACU	AIR CON
ODU	OUTDOO
SF	SUPPLY
EF	EXHAUST
UC	DOOR UN
AP	ACCESS
SU	SET UP
SD	SET DOW
T	THERMO
	FLOW DI
	AIR FLOW
S2 200	GRILLE F
	AIR VOLU
	CEILING DIFFUSER (CIRCULAR)
	OUT DOOR EXHAUST GRILLE
	CEILING GRILLE / DIFFUSER (SQUARE)
	CEILING RETURN / EXHAUST GRILLE
	SIDE WALL GRILLE / DIFFUSER
	VCD-VOLUME CONTROL DAMPER

NOTE: CARPARK VENTILATION CONTROL

- VENT FAN ACTIVATED BY PIR (BY MOTION DETECTOR), FAN TO OPERATE AT 3330 L/S (100%)
- VENT FAN RAMP DOWN AFTER PIR HAS DETECTED NO MOTION FOR 10 MIN, FAN TO OPERATE AT 380 L/S (APPROX 10%)

SEISMIC DENOTES:	TYPE
	SEISMIC RESTRAINT (TRANSVERSE AND LONGITUDINAL)
	SEISMIC RESTRAINT (TRANSVERSE OR LONGITUDINAL)
REFER TO SEISMIC RESTRAINT DRAWINGS: 2017-C15-HVAC-011 AND 12	

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL	

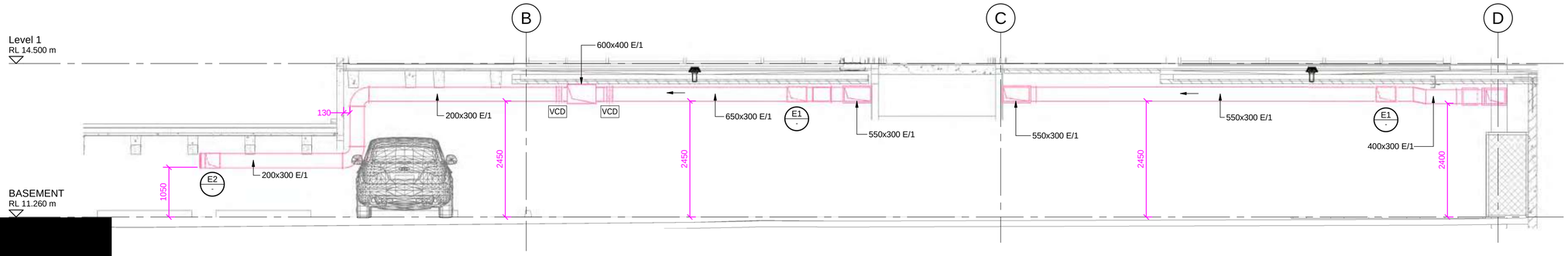
Scale	A1=As indicated
Date	18-12-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

Job Title: BASEMENT - CARPARK EXHAUST LAYOUT SHEET 2

Drawing number: M002

Issue: A



S1 SECTION B1-S1
M003 1 : 50

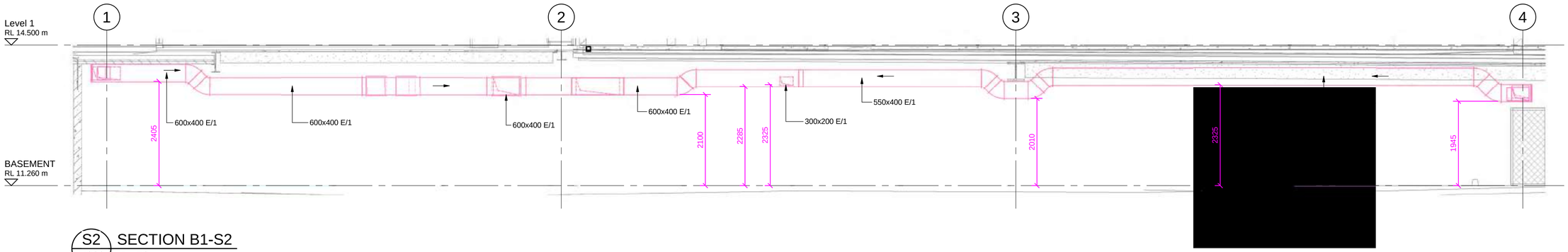
GENERAL NOTES:

1. B.O.D (BOTTOM OF DUCTS) & B.O.P (BOTTOM OF PIPES) ARE GIVEN FROM STRUCTURAL LEVEL
2. CEILING ACCESS PANEL FOR DAMPERS AND EQUIPMENT. ARCHITETURAL CONTRACTORS TO BE CONFIRM.
3. ALL CEILING HEIGHTS SHOWN THUS: 2400
4. UC = DOOR UNDERCUT 20MM
5. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN RUN ON TIMER.
6. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN ON TIMER

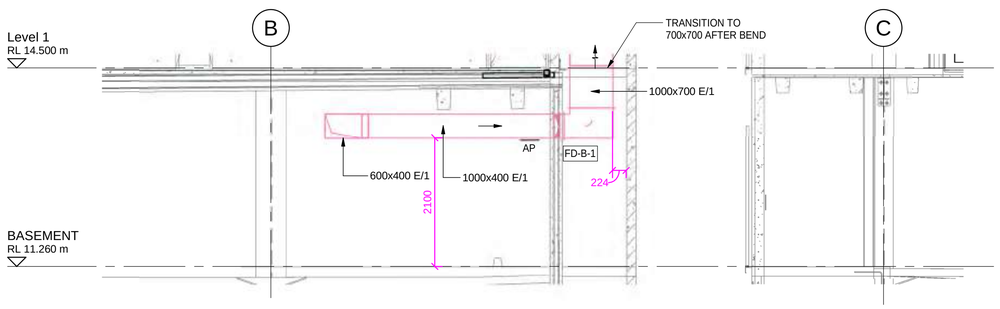
LEGEND:-	
	(S) SUPPLY AIR DUCT
	(E) EXHAUST AIR DUCT
	(OA) OUTDOOR AIR DUCT
	(R) RETURN AIR DUCT
	AV REFRIGERANT PIPE
B.O.D	BOTTOM OF DUCT
B.O.P	BOTTOM OF PIPE
FD	FIRE DAMPER
ACU	AIR CONDITIONER UNIT
ODU	OUTDOOR UNIT
SF	SUPPLY FAN
EF	EXHAUST FAN
UC	DOOR UNDERCUT
AP	ACCESS PANEL (400x400)
SU	SET UP
SD	SET DOWN
T	THERMOSTAT
	FLOW DIRECTION
	AIR FLOW
S2 / 200	GRILLE REFERNCE / AIR VOLUME (L/S)
	CEILING GRILLE / DIFFUSER (CIRCULAR)
	OUT DOOR EXHAUST GRILLE
	CEILING GRILLE / DIFFUSER (SQUARE)
	CEILING RETURN / EXHAUST GRILLE
	SIDE WALL GRILLE / DIFFUSER
	VCD-VOLUME CONTROL DAMPER

INSULATION NOTES:-

1 - PLAIN GMS
2 - GMS c/w 25MM INT. INSULATION
3 - GMS c/w 50MM INT. INSULATION
4 - GMS c/w 25MM EXT. INSULATION
5 - GMS c/w 50MM EXT. INSULATION
6 - PVC OR SIMILAR



S2 SECTION B1-S2
M003 1 : 50



S3 SECTION B1-S3
M003 1 : 50

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL	

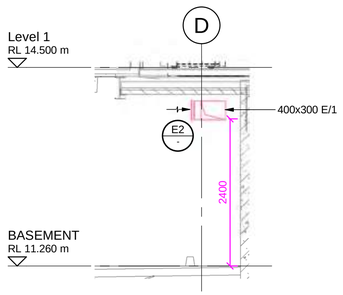
Scale	A1=As indicated
Date	18-12-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

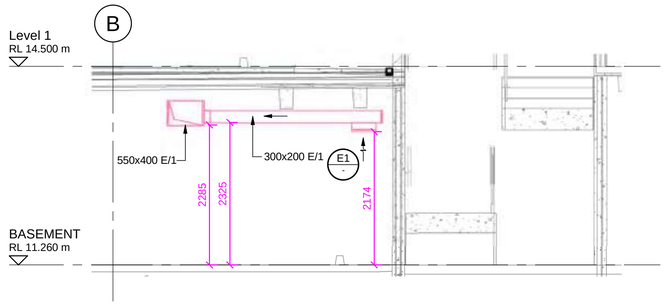
Job Title: BASEMENT - CARPARK GENERAL SECTIONS

Drawing number: M003

Issue: A



S4 M004 SECTION B1-S4
1 : 50



S5 M004 SECTION B1-S5
1 : 50

GENERAL NOTES:

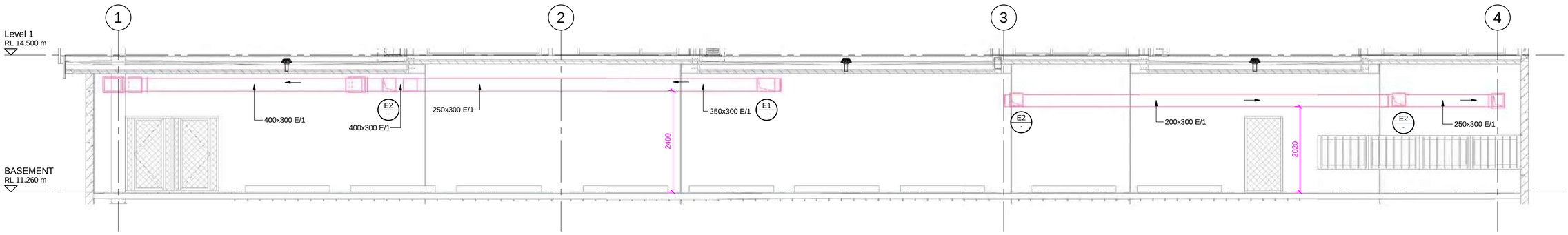
1. B.O.D (BOTTOM OF DUCTS) & B.O.P (BOTTOM OF PIPES) ARE GIVEN FROM STRUCTURAL LEVEL
2. CEILING ACCESS PANEL FOR DAMPERS AND EQUIPMENT. ARCHITETURAL CONTRACTORS TO BE CONFIRM.
3. ALL CEILING HEIGHTS SHOWN THUS: 2400
4. UC = DOOR UNDERCUT 20MM
5. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN RUN ON TIMER.
6. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN ON TIMER

LEGEND:-

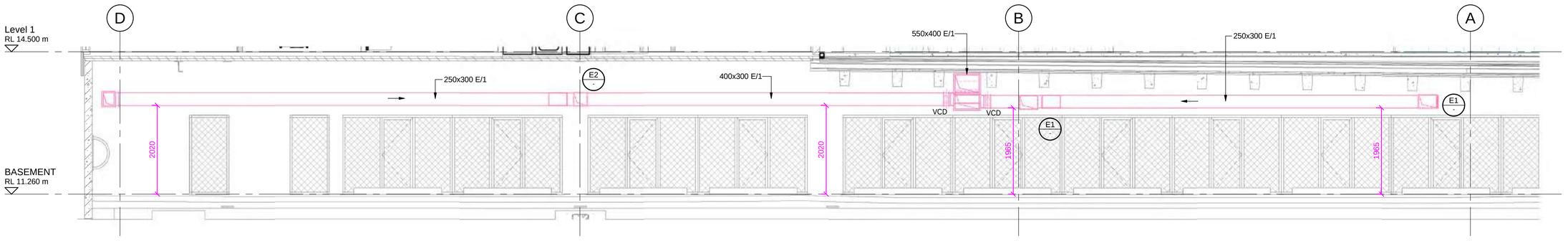
	(S) SUPPLY AIR DUCT
	(E) EXHAUST AIR DUCT
	(OA) OUTDOOR AIR DUCT
	(R) RETURN AIR DUCT
	AV REFRIGERANT PIPE
B.O.D	BOTTOM OF DUCT
B.O.P	BOTTOM OF PIPE
FD	FIRE DAMPER
ACU	AIR CONDITIONER UNIT
ODU	OUTDOOR UNIT
SF	SUPPLY FAN
EF	EXHAUST FAN
UC	DOOR UNDERCUT
AP	ACCESS PANEL (400x400)
SU	SET UP
SD	SET DOWN
T	THERMOSTAT
	FLOW DIRECTION
	AIR FLOW
S2 / 200	GRILLE REFERNCE / AIR VOLUME (L/S)
	CEILING GRILLE / DIFFUSER (CIRCULAR)
	OUT DOOR EXHAUST GRILLE
	CEILING GRILLE / DIFFUSER (SQUARE)
	CEILING RETURN / EXHAUST GRILLE
	SIDE WALL GRILLE / DIFFUSER
	VCD-VOLUME CONTROL DAMPER

INSULATION NOTES:-

1 - PLAIN GMS
2 - GMS c/w 25MM INT. INSULATION
3 - GMS c/w 50MM INT. INSULATION
4 - GMS c/w 25MM EXT. INSULATION
5 - GMS c/w 50MM EXT. INSULATION
6 - PVC OR SIMILAR



S6 M004 SECTION B1-S6
1 : 50



S7 M004 SECTION B1-S7
1 : 50

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL	

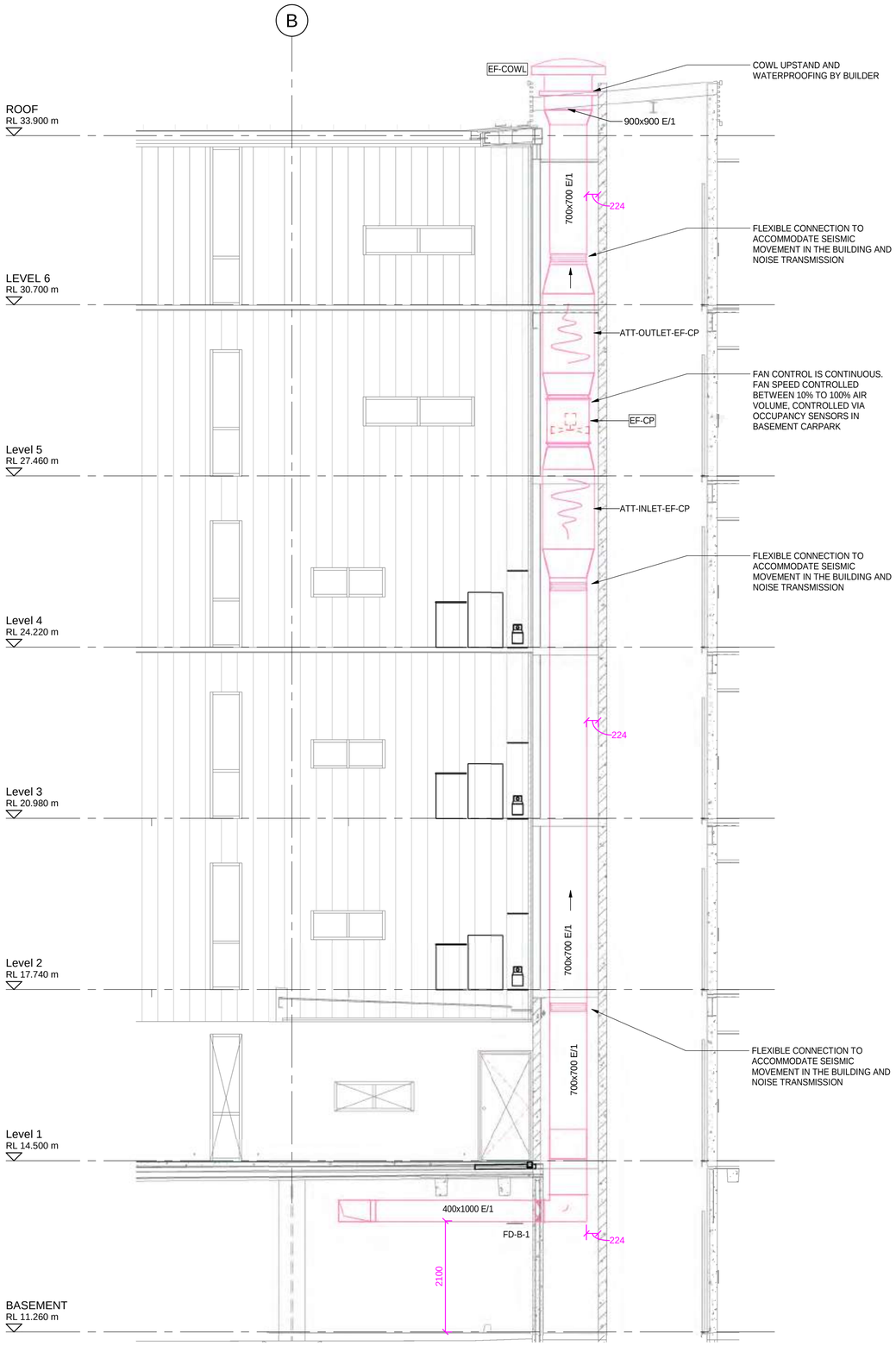
Scale	A1=As indicated
Date	18-12-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

Job Title: BASEMENT - CARPARK GENERAL SECTIONS

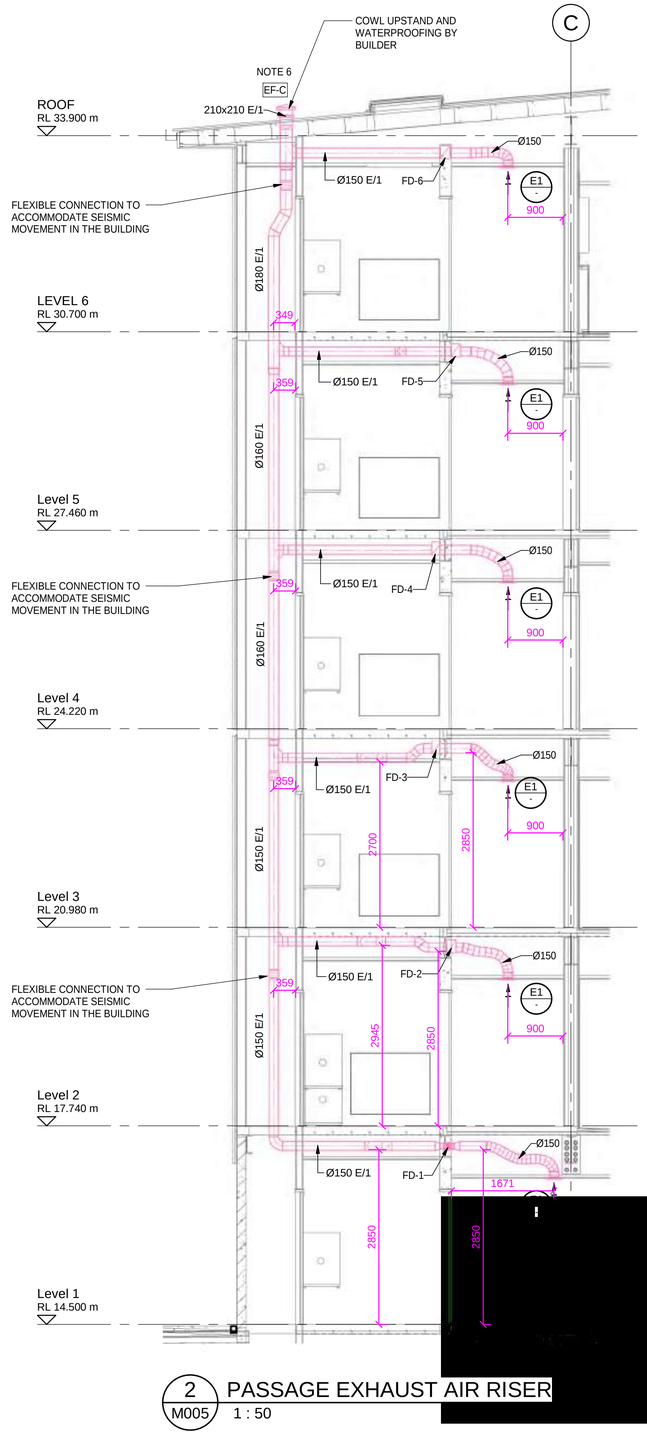
Drawing number: M004

Issue: A



1 / M005 CARPARK EXHAUST AIR RISER

1 : 50



2 / M005 PASSAGE EXHAUST AIR RISER

1 : 50

GENERAL NOTES:

1. B.O.D (BOTTOM OF DUCTS) & B.O.P (BOTTOM OF PIPES) ARE GIVEN FROM STRUCTURAL LEVEL
2. CEILING ACCESS PANEL FOR DAMPERS AND EQUIPMENT. ARCHITETURAL CONTRACTORS TO BE CONFIRM.
3. ALL CEILING HEIGHTS SHOWN THUS: 2400
4. UC = DOOR UNDERCUT 20MM
5. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN RUN ON TIMER.
6. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN ON TIMER

LEGEND:-

	(S) SUPPLY AIR DUCT
	(E) EXHAUST AIR DUCT
	(OA) OUTDOOR AIR DU
	(R) RETURN AIR DUCT
	AV REFRIGERANT PIPE
B.O.D	BOTTOM OF DUCT
B.O.P	BOTTOM OF PIPE
FD	FIRE DAMPER
ACU	AIR CONDITIONER UN
ODU	OUTDOOR UNIT
SF	SUPPLY FAN
EF	EXHAUST FAN
UC	DOOR UNDERCUT
AP	ACCESS PANEL (400x4
SU	SET UP
SD	SET DOWN
T	THERMOSTAT
	FLOW DIRECTION
	AIR FLOW
S2 / 200	GRILLE REFERNCE / AIR VOLUME (L/S)
	CEILING GRILLE / DIFFUSER (CIRCULAR)
	OUT DOOR EXHAUST GRILLE
	CEILING GRILLE / DIFFUSER (SQUARE)
	CEILING RETURN / EXHAUST GRILLE
	OL

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	18-12-18	BASEMENT SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1=As indicated
Date	18-12-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

Job Title: RISER SECTIONS LAYOUT

Drawing number: M005

Issue: A

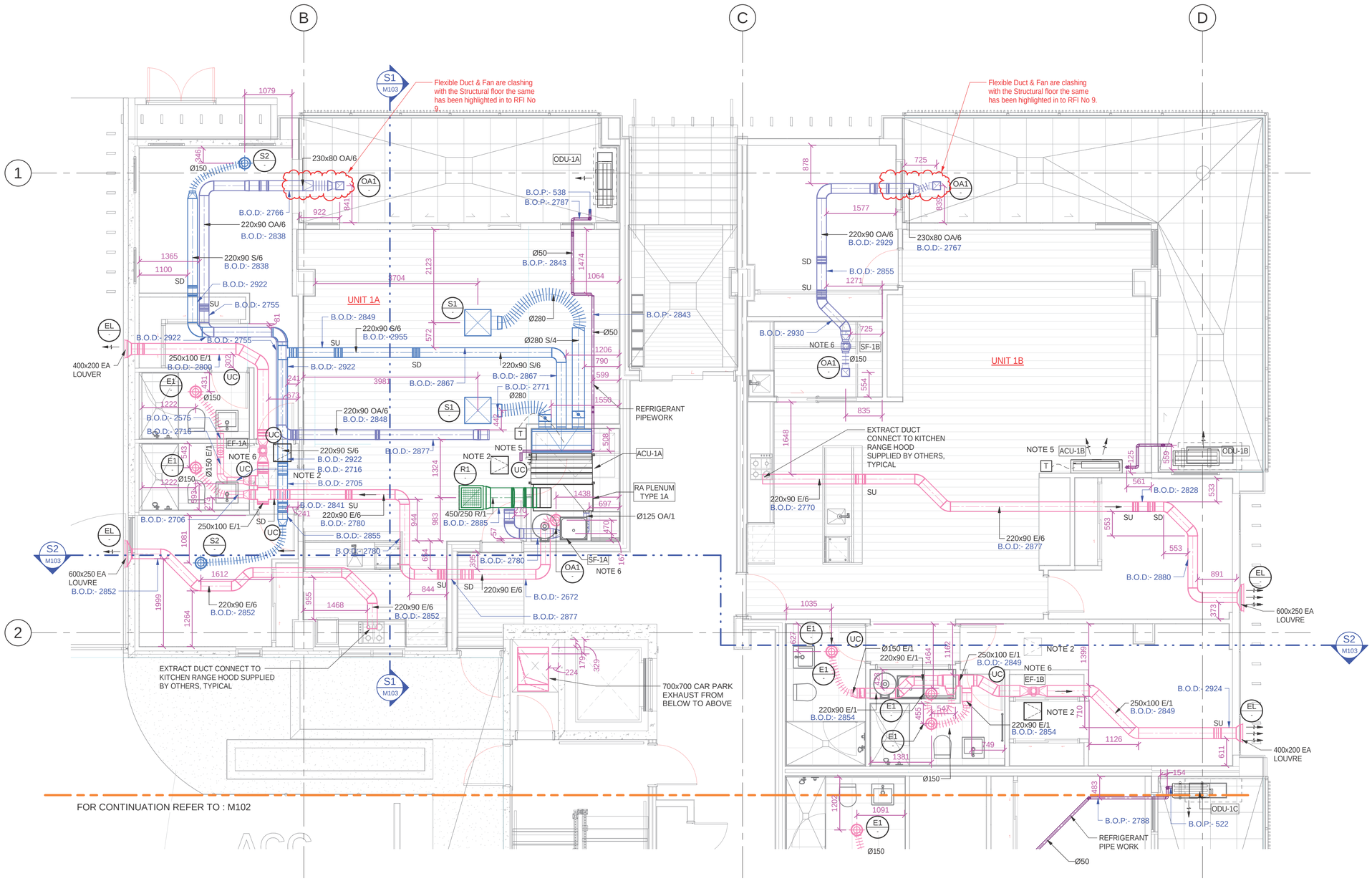
GENERAL NOTES:

1. B.O.D (BOTTOM OF DUCTS) & B.O.P (BOTTOM OF PIPES) ARE GIVEN FROM STRUCTURAL LEVEL
2. CEILING ACCESS PANEL FOR DAMPERS AND EQUIPMENT. ARCHITETURAL CONTRACTORS TO BE CONFIRM.
3. ALL CEILING HEIGHTS SHOWN THUS: 2400
4. UC = DOOR UNDERCUT 20MM
5. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN RUN ON TIMER.
6. FAN IS CONTINUOUS OPERATION.

LEGEND:-	
	(S) SUPPLY AIR DUCT
	(E) EXHAUST AIR DUCT
	(OA) OUTDOOR AIR DUCT
	(R) RETURN AIR DUCT
	AV REFRIGERANT PIPE
B.O.D	BOTTOM OF DUCT
B.O.P	BOTTOM OF PIPE
FD	FIRE DAMPER
ACU	AIR CONDITIONER UNIT
ODU	OUTDOOR UNIT
SF	SUPPLY FAN
EF	EXHAUST FAN
UC	DOOR UNDERCUT
AP	ACCESS PANEL (400x400)
SU	SET UP
SD	SET DOWN
T	THERMOSTAT
	FLOW DIRECTION
	AIR FLOW
S2 / 200	GRILL REFERNCE / AIR VOLUME (L/S)
	CEILING GRILLE / DIFFUSER (CIRCULAR)
	OUT DOOR EXHAUST GRILLE
	CEILING GRILLE / DIFFUSER (SQUARE)
	CEILING RETURN / EXHAUST GRILLE
	SIDE WALL GRILLE / DIFFUSER

INSULATION NOTES:-

1 - PLAIN GMS
2 - GMS c/w 25MM INT. INSULATION
3 - GMS c/w 50MM INT. INSULATION
4 - GMS c/w 25MM EXT. INSULATION
5 - GMS c/w 50MM EXT. INSULATION
6 - PVC OR SIMILAR



1 / M101 LEVEL 1 HVAC LAYOUT SHEET 1

1 : 50

SILICON Engineering Consultants Ltd				Scale	A1=As indicated	Job Name	Latitude Apartment 8- 10 Park Street	Drawing number / Issue
				Date	26-11-2018			
				Drawn	JR			
				Checked	TP	Job Title	LEVEL 1 HVAC LAYOUT SHEET 1	M101 / A
				Approved	TP			
				Job No.	FBB1090			

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	26-11-18	LEVEL-1 SHOP DRAWING - ISSUED FOR APPROVAL	

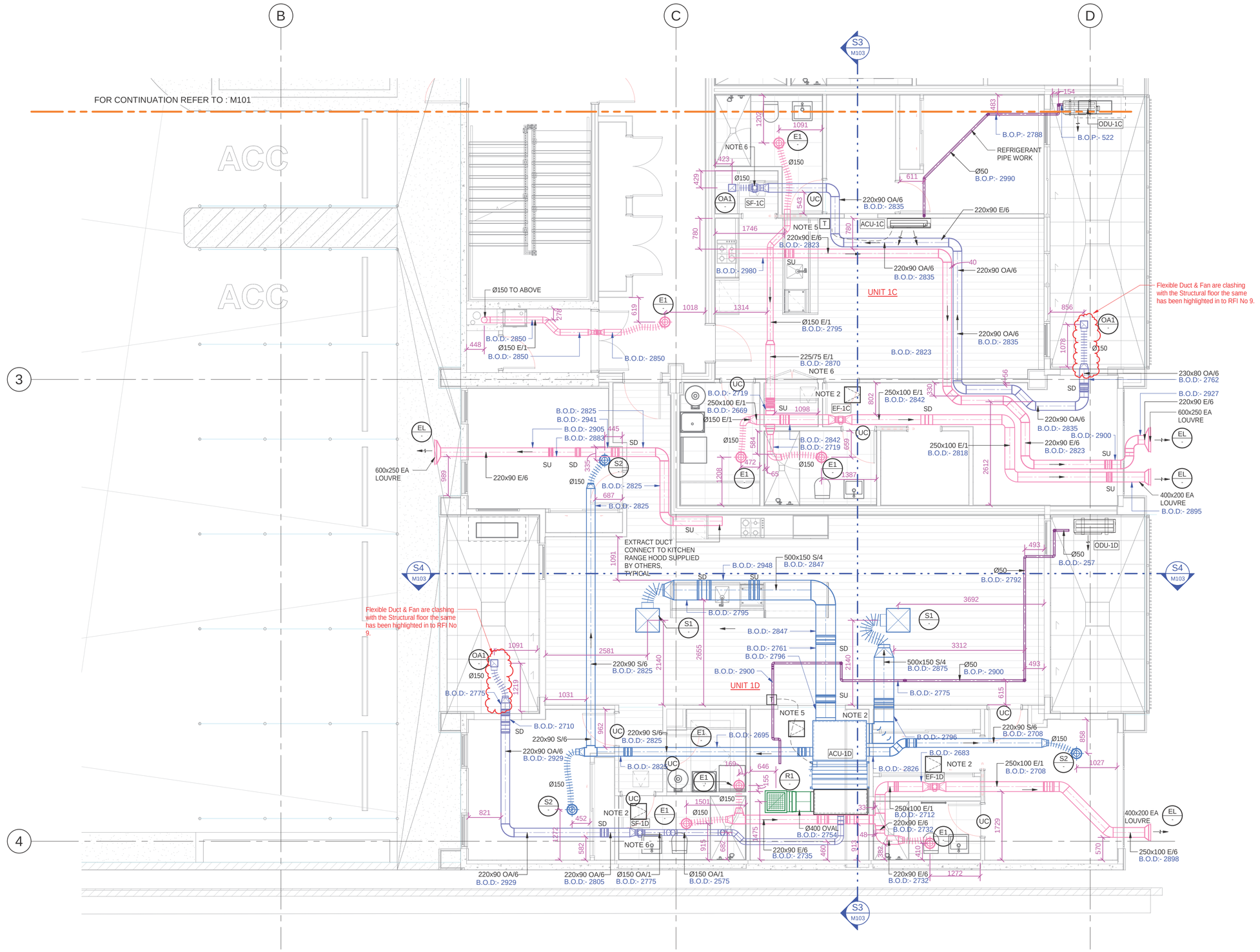
GENERAL NOTES:

1. B.O.D (BOTTOM OF DUCTS) & B.O.P (BOTTOM OF PIPES) ARE GIVEN FROM STRUCTURAL LEVEL
2. CEILING ACCESS PANEL FOR DAMPERS AND EQUIPMENT. ARCHITETURAL CONTRACTORS TO BE CONFIRM.
3. ALL CEILING HEIGHTS SHOWN THUS: 2400
4. UC = DOOR UNDERCUT 20MM
5. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN RUN ON TIMER.
6. FAN IS CONTINUOUS OPERATION.

LEGEND:-	
	(S) SUPPLY AIR DUCT
	(E) EXHAUST AIR DUCT
	(OA) OUTDOOR AIR DUCT
	(R) RETURN AIR DUCT
	AV REFRIGERANT PIPE
B.O.D	BOTTOM OF DUCT
B.O.P	BOTTOM OF PIPE
FD	FIRE DAMPER
ACU	AIR CONDITIONER UNIT
ODU	OUTDOOR UNIT
SF	SUPPLY FAN
EF	EXHAUST FAN
UC	DOOR UNDERCUT
AP	ACCESS PANEL (400x400)
SU	SET UP
SD	SET DOWN
T	THERMOSTAT
	FLOW DIRECTION
	AIR FLOW
S2 200	GRILL REFERNCE AIR VOLUME (L/S)
	CEILING GRILLE / DIFFUSER (CIRCULAR)
	OUT DOOR EXHAUST GRILLE
	CEILING GRILLE / DIFFUSER (SQUARE)
	CEILING RETURN / EXHAUST GRILLE
	SIDE WALL GRILLE / DIFFUSER

INSULATION NOTES:-

1 - PLAIN GMS
2 - GMS c/w 25MM INT. INSULATION
3 - GMS c/w 50MM INT. INSULATION
4 - GMS c/w 25MM EXT. INSULATION
5 - GMS c/w 50MM EXT. INSULATION
6 - PVC OR SIMILAR



2 M102 LEVEL 1 HVAC LAYOUT SHEET 2
1 : 50

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL	

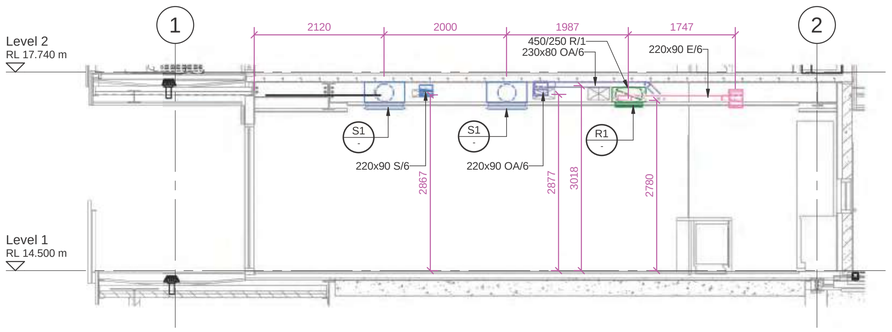
Scale	A1=As indicated
Date	26-11-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

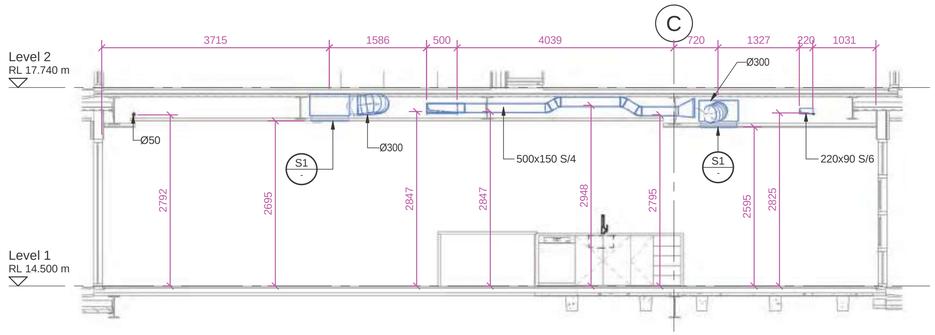
Job Title: LEVEL 1 HVAC LAYOUT SHEET 2

Drawing number: M102

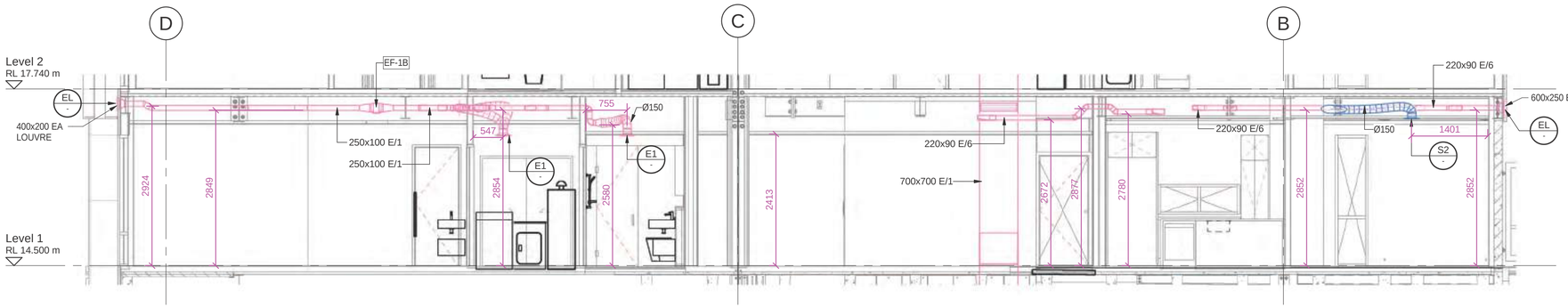
Issue: A



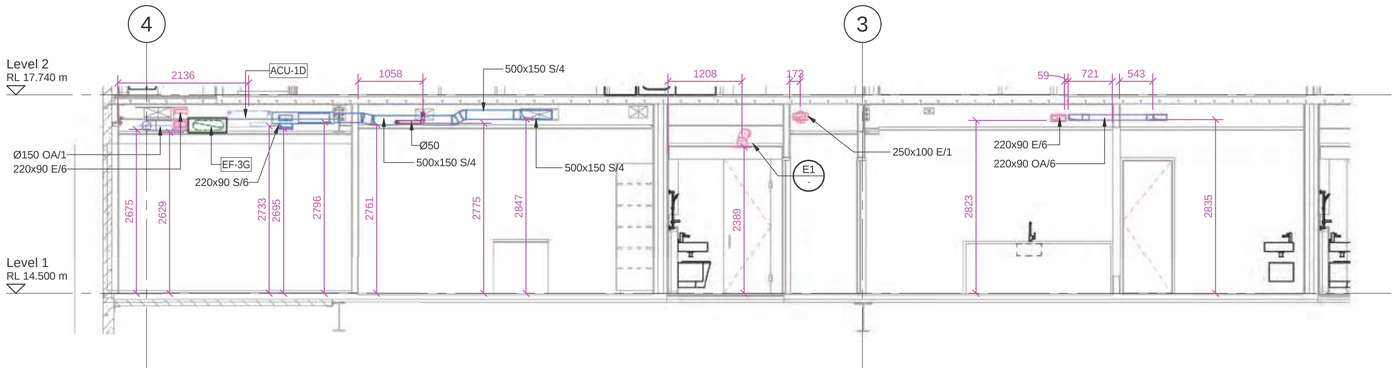
S1 M103 SECTION L1-S1 1 : 50



S4 M103 SECTION L1-S4 1 : 50



S2 M103 SECTION L1-S2 1 : 50



S3 M103 SECTION L1-S3 1 : 50

GENERAL NOTES:

1. B.O.D (BOTTOM OF DUCTS) & B.O.P (BOTTOM OF PIPES) ARE GIVEN FROM STRUCTURAL LEVEL
2. CEILING ACCESS PANEL FOR DAMPERS AND EQUIPMENT. ARCHITETURAL CONTRACTORS TO BE CONFIRM.
3. ALL CEILING HEIGHTS SHOWN THUS: 2400
4. UC = DOOR UNDERCUT 20MM
5. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN RUN ON TIMER.
6. FAN IS CONTINUOUS OPERATION.

LEGEND:-	
	(S) SUPPLY AIR DUCT
	(E) EXHAUST AIR DUCT
	(OA) OUTDOOR AIR DUCT
	(R) RETURN AIR DUCT
	AV REFRIGERANT PIPE
B.O.D	BOTTOM OF DUCT
B.O.P	BOTTOM OF PIPE
FD	FIRE DAMPER
ACU	AIR CONDITIONER UNIT
ODU	OUTDOOR UNIT
SF	SUPPLY FAN
EF	EXHAUST FAN
UC	DOOR UNDERCUT
AP	ACCESS PANEL (400x400)
SU	SET UP
SD	SET DOWN
T	THERMOSTAT
	FLOW DIRECTION
	AIR FLOW
S2 / 200	GRILL REFERNCE / AIR VOLUME (L/S)
	CEILING GRILLE / DIFFUSER (CIRCULAR)
	OUT DOOR EXHAUST GRILLE
	CEILING GRILLE / DIFFUSER (SQUARE)
	CEILING RETURN / EXHAUST GRILLE
	SIDE WALL GRILLE / DIFFUSER

INSULATION NOTES:-

1 - PLAIN GMS
2 - GMS c/w 25MM INT. INSULATION
3 - GMS c/w 50MM INT. INSULATION
4 - GMS c/w 25MM EXT. INSULATION
5 - GMS c/w 50MM EXT. INSULATION
6 - PVC OR SIMILAR

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	26-11-18	LEVEL 1 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1=As indicated
Date	26-11-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

Job Title: LEVEL 1 HVAC SECTIONAL VIEW

Drawing number: M103

Issue: A

SHEET LIST

SHEET NUMBER	SHEET NAME	ISSUE	ISSUED DATE	CURRENT ISSUED DESCRIPTION
M000	COVER PAGE & SHEET LIST	B	28-11-18	LEVEL-2 SHOP DRAWING ADDED
M101	LEVEL 1 HVAC LAYOUT SHEET 1	A	26-11-18	LEVEL-1 SHOP DRAWING - ISSUED FOR APPROVAL
M102	LEVEL 1 HVAC LAYOUT SHEET 2	A	26-11-18	LEVEL-1 SHOP DRAWING - ISSUED FOR APPROVAL
M103	LEVEL 1 HVAC SECTIONAL VIEW	A	26-11-18	LEVEL-1 SHOP DRAWING - ISSUED FOR APPROVAL
M201	LEVEL 2 HVAC LAYOUT SHEET 1	A	28-11-18	LEVEL-2 SHOP DRAWING - ISSUED FOR APPROVAL
M202	LEVEL 2 HVAC LAYOUT SHEET 2	A	28-11-18	LEVEL-2 SHOP DRAWING - ISSUED FOR APPROVAL
M203	LEVEL 2 HVAC SECTIONAL VIEW	A	28-11-18	LEVEL-2 SHOP DRAWING - ISSUED FOR APPROVAL

B

PROJECT NAME : LATITUDE APARTMENT

PROJECT NO. : FBB1090

MECHANICAL SERVICES

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	28-11-18	LEVEL-2 SHOP DRAWING ADDED	
A	26-11-18	LEVEL-1 SHOP DRAWING ADDED	

Scale	A1=
Date	26-11-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

Job Title: COVER PAGE & SHEET LIST

Drawing number: M000

Issue: B

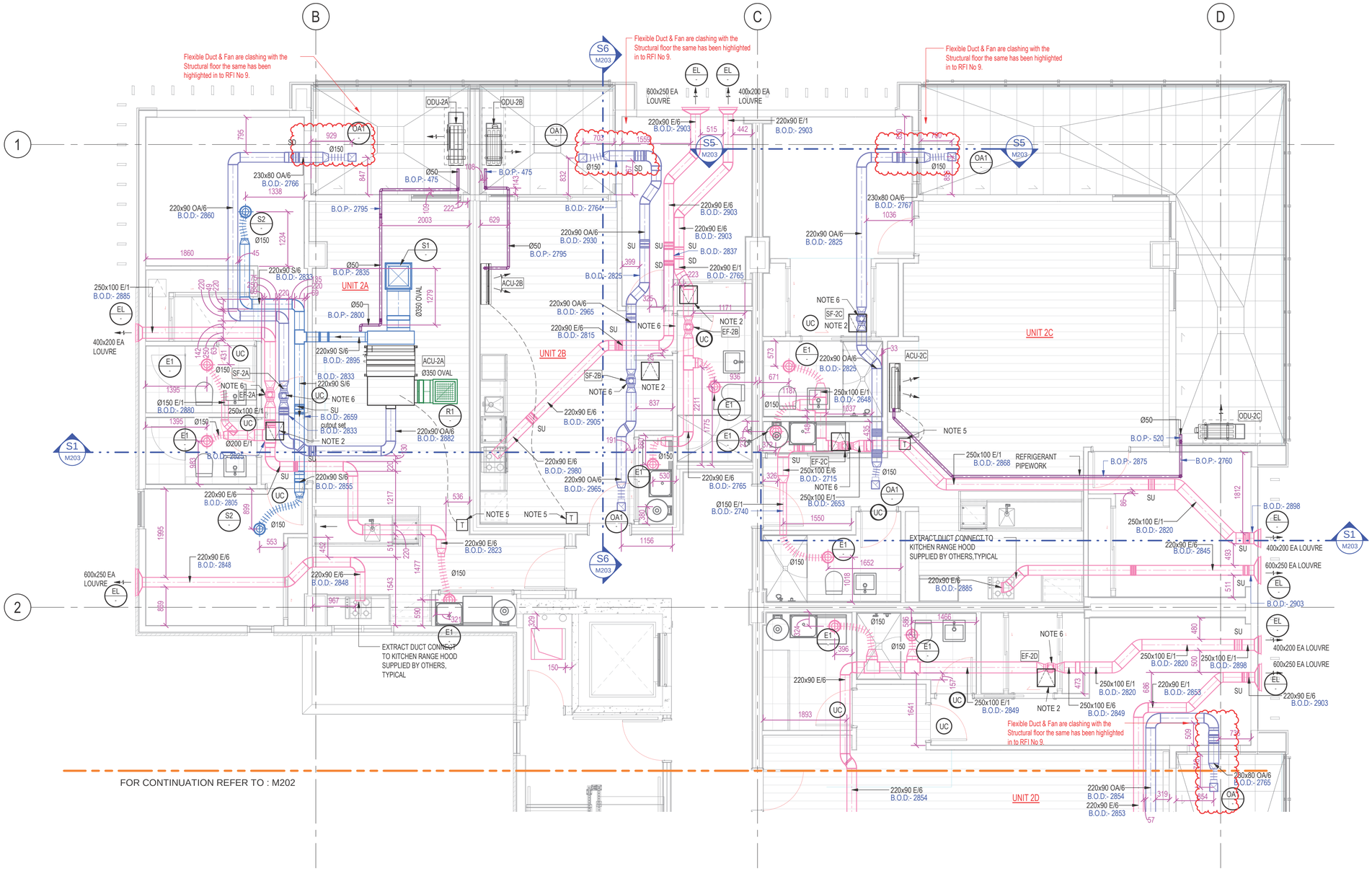
GENERAL NOTES:

1. B.O.D (BOTTOM OF DUCTS) & B.O.P (BOTTOM OF PIPES) ARE GIVEN FROM STRUCTURAL LEVEL
2. CEILING ACCESS PANEL FOR DAMPERS AND EQUIPMENT. ARCHITETURAL CONTRACTORS TO BE CONFIRM.
3. ALL CEILING HEIGHTS SHOWN THUS: 2400
4. UC = DOOR UNDERCUT 20MM
5. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN RUN ON TIMER.
6. FAN IS CONTINUOUS OPERATION.

LEGEND:-	
	(S) SUPPLY AIR DUCT
	(E) EXHAUST AIR DUCT
	(OA) OUTDOOR AIR DUCT
	(R) RETURN AIR DUCT
	AV REFRIGERANT PIPE
B.O.D	BOTTOM OF DUCT
B.O.P	BOTTOM OF PIPE
FD	FIRE DAMPER
ACU	AIR CONDITIONER UNIT
ODU	OUTDOOR UNIT
SF	SUPPLY FAN
EF	EXHAUST FAN
UC	DOOR UNDERCUT
AP	ACCESS PANEL (400x400)
SU	SET UP
SD	SET DOWN
T	THERMOSTAT
	FLOW DIRECTION
	AIR FLOW
S2 / 200	GRILL REFERNCE / AIR VOLUME (L/S)
	CEILING GRILLE / DIFFUSER (CIRCULAR)
	OUT DOOR EXHAUST GRILLE
	CEILING GRILLE / DIFFUSER (SQUARE)
	CEILING RETURN / EXHAUST GRILLE
	SIDE WALL GRILLE / DIFFUSER

INSULATION NOTES:-

1 - PLAIN GMS
2 - GMS c/w 25MM INT. INSULATION
3 - GMS c/w 50MM INT. INSULATION
4 - GMS c/w 25MM EXT. INSULATION
5 - GMS c/w 50MM EXT. INSULATION
6 - PVC OR SIMILAR



1 M201 LEVEL 2 HVAC LAYOUT SHEET 1
1 : 50

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

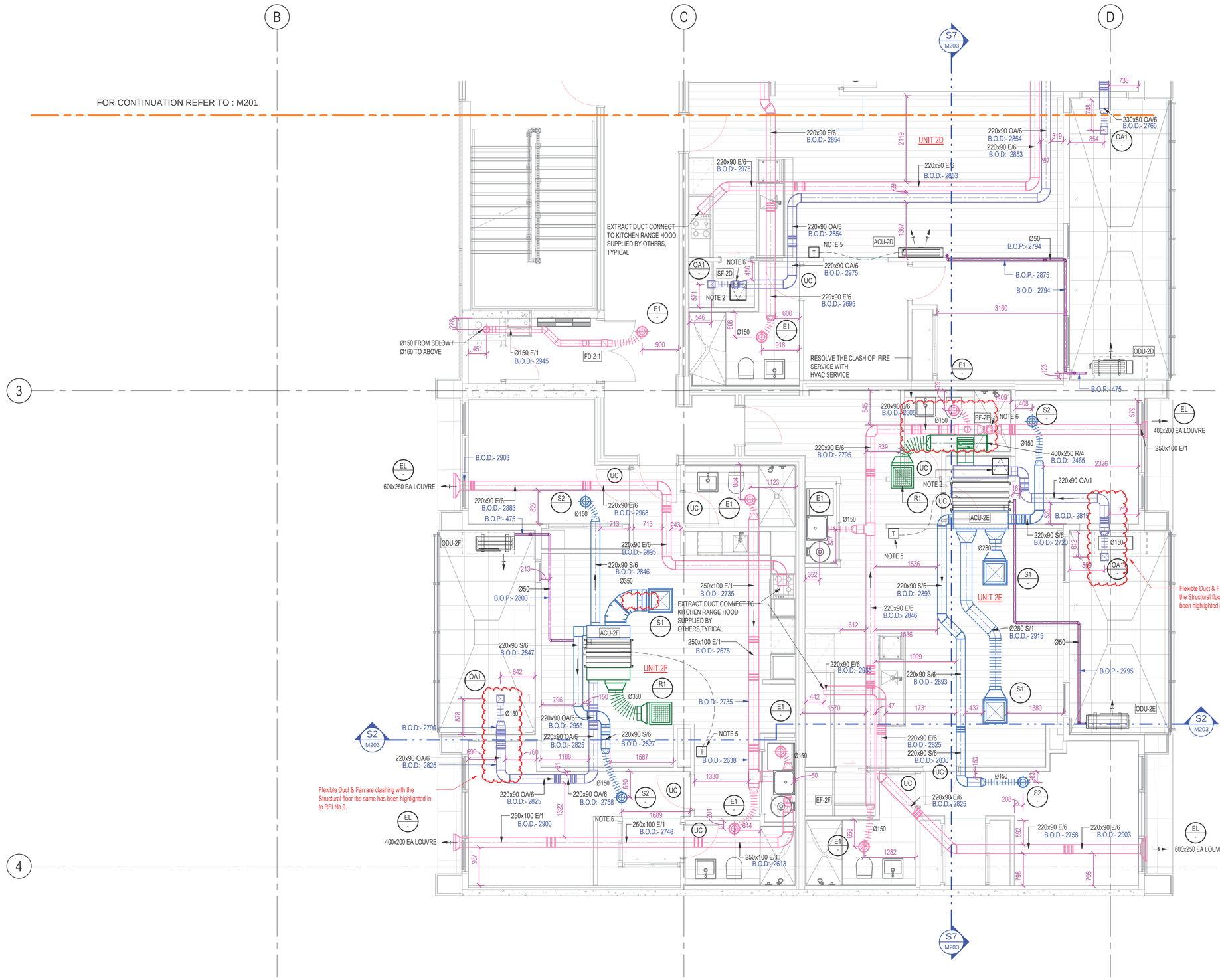
Scale	A1= As indicated
Date	28-11-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

Job Title: LEVEL 2 HVAC LAYOUT SHEET 1

Drawing number: M201

Issue: A



GENERAL NOTES:

1. B.O.D (BOTTOM OF DUCTS) & B.O.P (BOTTOM OF PIPES) ARE GIVEN FROM STRUCTURAL LEVEL.
2. CEILING ACCESS PANEL FOR DAMPERS AND EQUIPMENT. ARCHITETURAL CONTRACTORS TO BE CONFIRM.
3. ALL CEILING HEIGHTS SHOWN THUS: 2400
4. UC = DOOR UNDERCUT 20MM
5. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN RUN ON TIMER.
6. FAN IS CONTINUOUS OPERATION.

LEGEND:-	
	(S) SUPPLY AIR DUCT
	(E) EXHAUST AIR DUCT
	(OA) OUTDOOR AIR DUCT
	(R) RETURN AIR DUCT
	AV REFRIGERANT PIPE
B.O.D	BOTTOM OF DUCT
B.O.P	BOTTOM OF PIPE
FD	FIRE DAMPER
ACU	AIR CONDITIONER UNIT
ODU	OUTDOOR UNIT
SF	SUPPLY FAN
EF	EXHAUST FAN
UC	DOOR UNDERCUT
AP	ACCESS PANEL (400x400)
SU	SET UP
SD	SET DOWN
T	THERMOSTAT
	FLOW DIRECTION
	AIR FLOW
S2 / 200	GRILL REFERNCE / AIR VOLUME (L/S)
	CEILING GRILLE / DIFFUSER (CIRCULAR)
	OUT DOOR EXHAUST GRILLE
	CEILING GRILLE / DIFFUSER (SQUARE)
	CEILING RETURN / EXHAUST GRILLE
	SIDE WALL GRILLE / DIFFUSER

INSULATION NOTES:-

1 - PLAIN GMS
2 - GMS c/w 25MM INT. INSULATION
3 - GMS c/w 50MM INT. INSULATION
4 - GMS c/w 25MM EXT. INSULATION
5 - GMS c/w 50MM EXT. INSULATION
6 - PVC OR SIMILAR

2 M202 LEVEL 2 HVAC LAYOUT SHEET 2

1 : 50

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	28-11-18	LEVEL 2 SHOP DRAWING - ISSUED FOR APPROVAL	

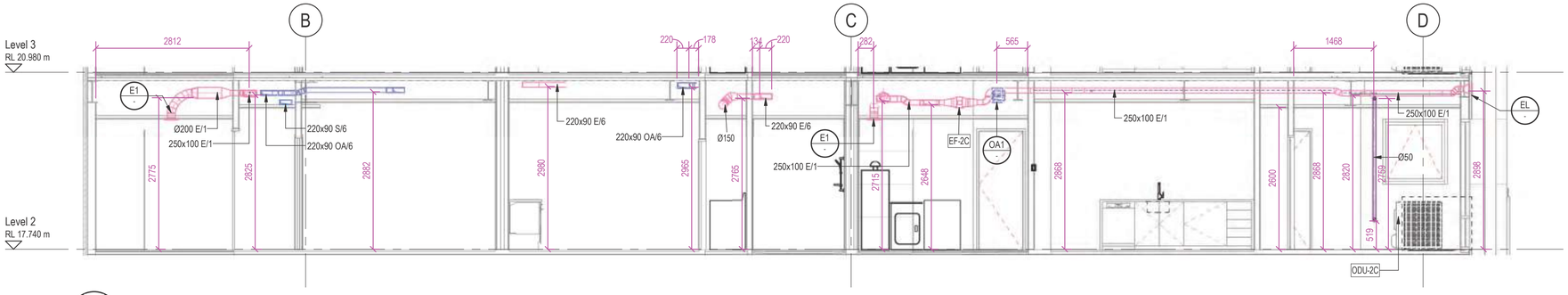
Scale	A1= As indicated
Date	28-11-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

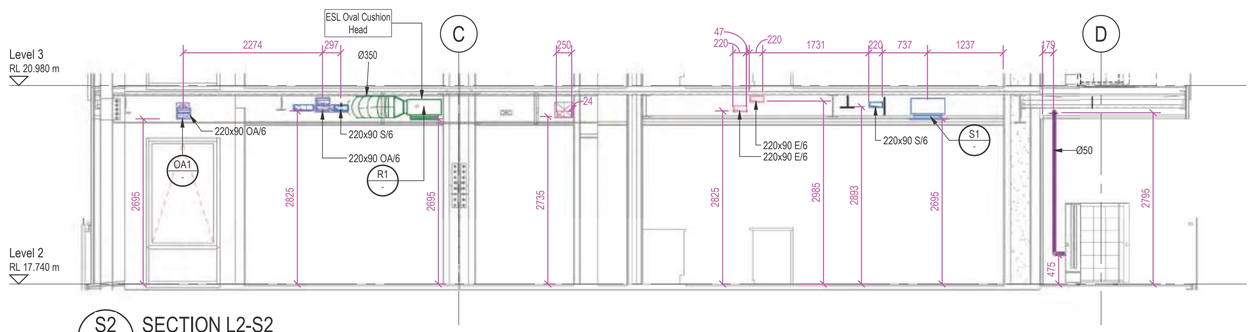
Job Title: LEVEL 2 HVAC LAYOUT SHEET 2

Drawing number: M202

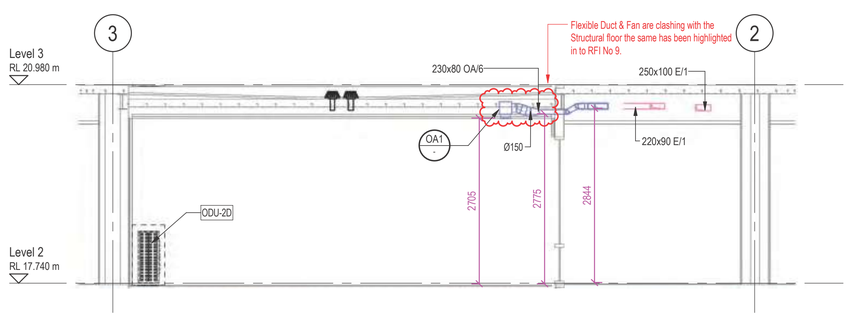
Issue: A



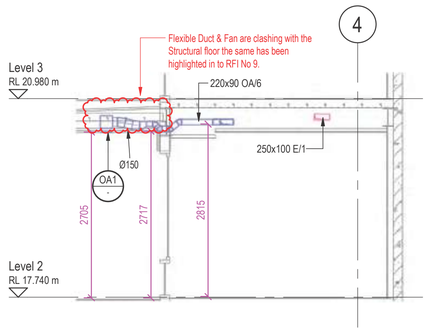
S1 M203 SECTION L2-S1 1 : 50



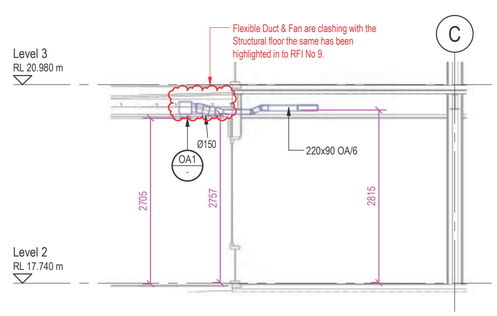
S2 M203 SECTION L2-S2 1 : 50



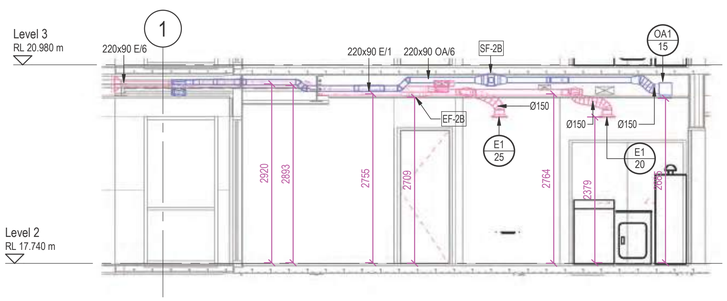
S3 M203 SECTION L2-S3 1 : 50



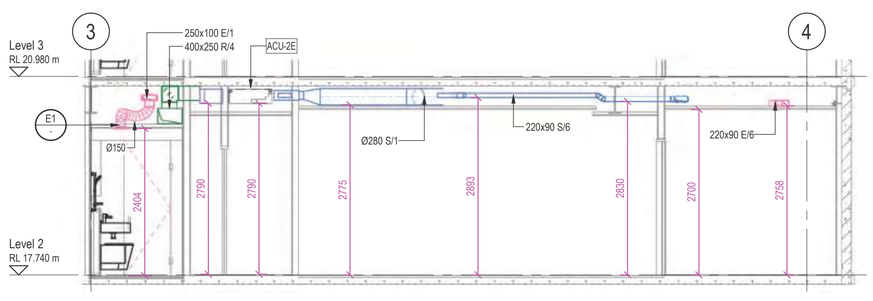
S4 M203 SECTION L2-S4 1 : 50



S5 M203 SECTION L2-S5 1 : 50



S6 M203 SECTION L2-S6 1 : 50



S7 M203 SECTION L2-S7 1 : 50

GENERAL NOTES:

1. B.O.D (BOTTOM OF DUCTS) & B.O.P (BOTTOM OF PIPES) ARE GIVEN FROM STRUCTURAL LEVEL
2. CEILING ACCESS PANEL FOR DAMPERS AND EQUIPMENT. ARCHITETURAL CONTRACTORS TO BE CONFIRM.
3. ALL CEILING HEIGHTS SHOWN THUS: 2400
4. UC = DOOR UNDERCUT 20MM
5. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN RUN ON TIMER.
6. FAN IS CONTINUOUS OPERATION.

LEGEND:-

	(S) SUPPLY AIR DUCT
	(E) EXHAUST AIR DUCT
	(OA) OUTDOOR AIR DUCT
	(R) RETURN AIR DUCT
	AV REFRIGERANT PIPE
B.O.D	BOTTOM OF DUCT
B.O.P	BOTTOM OF PIPE
FD	FIRE DAMPER
ACU	AIR CONDITIONER UNIT
ODU	OUTDOOR UNIT
SF	SUPPLY FAN
EF	EXHAUST FAN
UC	DOOR UNDERCUT
AP	ACCESS PANEL (400x400)
SU	SET UP
SD	SET DOWN
T	THERMOSTAT
	FLOW DIRECTION
	AIR FLOW
S2	GRILL REFERNCE
200	AIR VOLUME (L/S)
	CEILING GRILLE / DIFFUSER (CIRCULAR)
	OUT DOOR EXHAUST GRILLE
	CEILING GRILLE / DIFFUSER (SQUARE)
	CEILING RETURN / EXHAUST GRILLE
	SIDE WALL GRILLE / DIFFUSER

INSULATION NOTES:-

1 - PLAIN GMS
2 - GMS c/w 25MM INT. INSULATION
3 - GMS c/w 50MM INT. INSULATION
4 - GMS c/w 25MM EXT. INSULATION
5 - GMS c/w 50MM EXT. INSULATION
6 - PVC OR SIMILAR

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	28-11-18	LEVEL-2 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1= As indicated
Date	28-11-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

Job Title: LEVEL 2 HVAC SECTIONAL VIEW

Drawing number: M203

Issue: A

SHEET LIST

SHEET NUMBER	SHEET NAME	ISSUE	ISSUED DATE	CURRENT ISSUED DESCRIPTION
M000	COVER PAGE & SHEET LIST	C	30-11-18	LEVEL-3 SHOP DRAWING ADDED
M101	LEVEL 1 HVAC LAYOUT SHEET 1	A	26-11-18	LEVEL-1 SHOP DRAWING - ISSUED FOR APPROVAL
M102	LEVEL 1 HVAC LAYOUT SHEET 2	A	26-11-18	LEVEL-1 SHOP DRAWING - ISSUED FOR APPROVAL
M103	LEVEL 1 HVAC SECTIONAL VIEW	A	26-11-18	LEVEL-1 SHOP DRAWING - ISSUED FOR APPROVAL
M201	LEVEL 2 HVAC LAYOUT SHEET 1	A	28-11-18	LEVEL-2 SHOP DRAWING - ISSUED FOR APPROVAL
M202	LEVEL 2 HVAC LAYOUT SHEET 2	A	28-11-18	LEVEL-2 SHOP DRAWING - ISSUED FOR APPROVAL
M203	LEVEL 2 HVAC SECTIONAL VIEW	A	28-11-18	LEVEL-2 SHOP DRAWING - ISSUED FOR APPROVAL
M301	LEVEL 3 HVAC LAYOUT SHEET 1	A	30-11-18	LEVEL-3 SHOP DRAWING - ISSUED FOR APPROVAL
M302	LEVEL 3 HVAC LAYOUT SHEET 2	A	30-11-18	LEVEL-3 SHOP DRAWING - ISSUED FOR APPROVAL
M303	LEVEL 3 HVAC SECTIONAL VIEW	A	30-11-18	LEVEL-3 SHOP DRAWING - ISSUED FOR APPROVAL

C

PROJECT NAME : LATITUDE APARTMENT

PROJECT NO. : FBB1090

MECHANICAL SERVICES

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
C	30-11-18	LEVEL-3 SHOP DRAWING ADDED	
B	28-11-18	LEVEL-2 SHOP DRAWING ADDED	
A	26-11-18	LEVEL-1 SHOP DRAWING ADDED	

Scale	A1=
Date	26-11-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

Job Title: COVER PAGE & SHEET LIST

Drawing number: M000

Issue: C

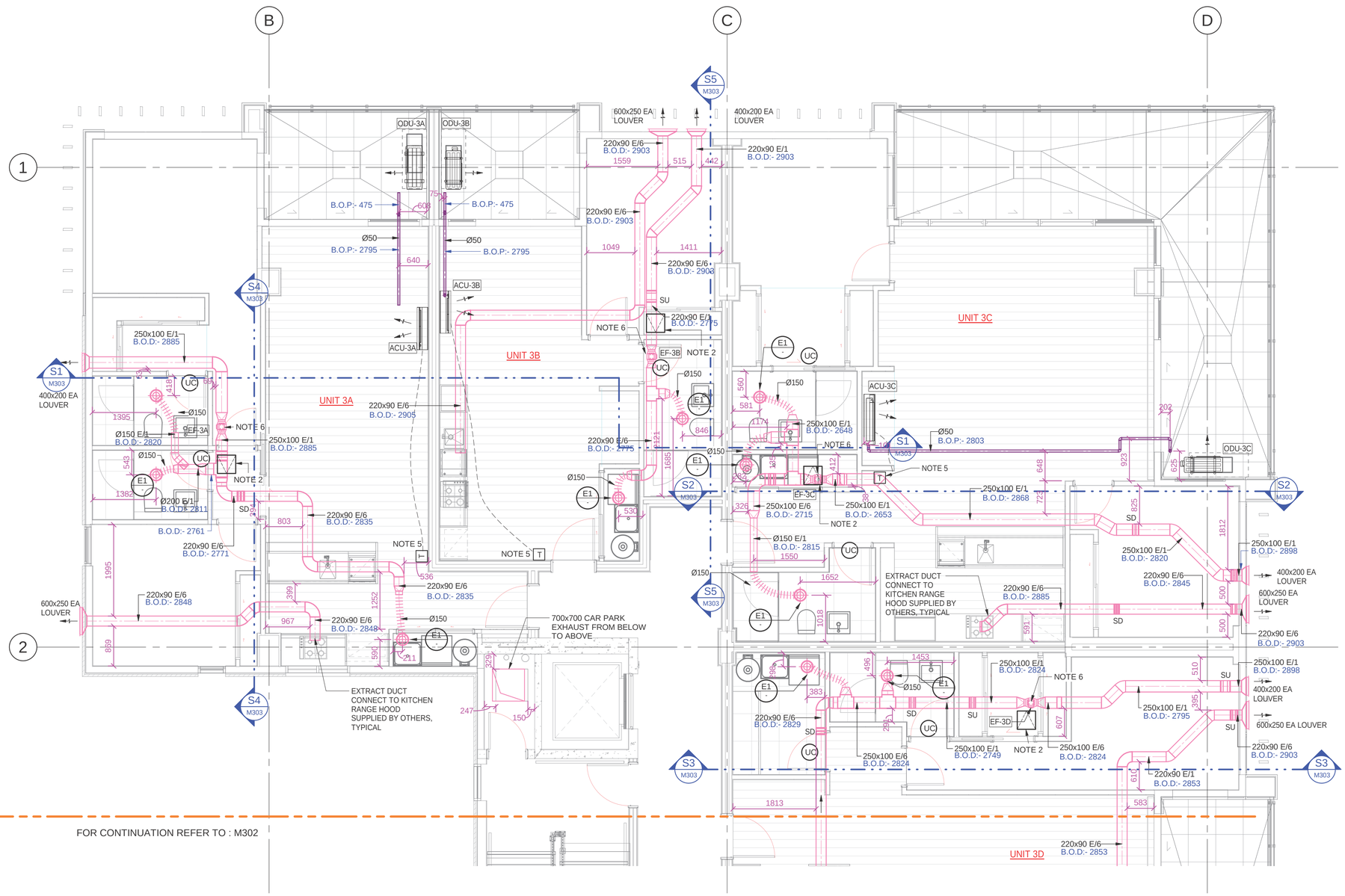
GENERAL NOTES:

1. B.O.D (BOTTOM OF DUCTS) & B.O.P (BOTTOM OF PIPES) ARE GIVEN FROM STRUCTURAL LEVEL
2. CEILING ACCESS PANEL FOR DAMPERS AND EQUIPMENT. ARCHITETURAL CONTRACTORS TO BE CONFIRM.
3. ALL CEILING HEIGHTS SHOWN THUS: 2400
4. UC = DOOR UNDERCUT 20MM
5. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN RUN ON TIMER.
6. FAN IS CONTINUOUS OPERATION.

LEGEND:-	
	(S) SUPPLY AIR DUCT
	(E) EXHAUST AIR DUCT
	(OA) OUTDOOR AIR DUCT
	(R) RETURN AIR DUCT
	AV REFRIGERANT PIPE
B.O.D	BOTTOM OF DUCT
B.O.P	BOTTOM OF PIPE
FD	FIRE DAMPER
ACU	AIR CONDITIONER UNIT
ODU	OUTDOOR UNIT
SF	SUPPLY FAN
EF	EXHAUST FAN
UC	DOOR UNDERCUT
AP	ACCESS PANEL (400x400)
SU	SET UP
SD	SET DOWN
T	THERMOSTAT
	FLOW DIRECTION
	AIR FLOW
S2 / 200	GRILL REFERNCE / AIR VOLUME (L/S)
	CEILING GRILLE / DIFFUSER (CIRCULAR)
	OUT DOOR EXHAUST GRILLE
	CEILING GRILLE / DIFFUSER (SQUARE)
	CEILING RETURN / EXHAUST GRILLE
	SIDE WALL GRILLE / DIFFUSER

INSULATION NOTES:-

1 - PLAIN GMS
2 - GMS c/w 25MM INT. INSULATION
3 - GMS c/w 50MM INT. INSULATION
4 - GMS c/w 25MM EXT. INSULATION
5 - GMS c/w 50MM EXT. INSULATION
6 - PVC OR SIMILAR



FOR CONTINUATION REFER TO : M302

1 M301 LEVEL 3 HVAC LAYOUT SHEET 1

1 : 50

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL	

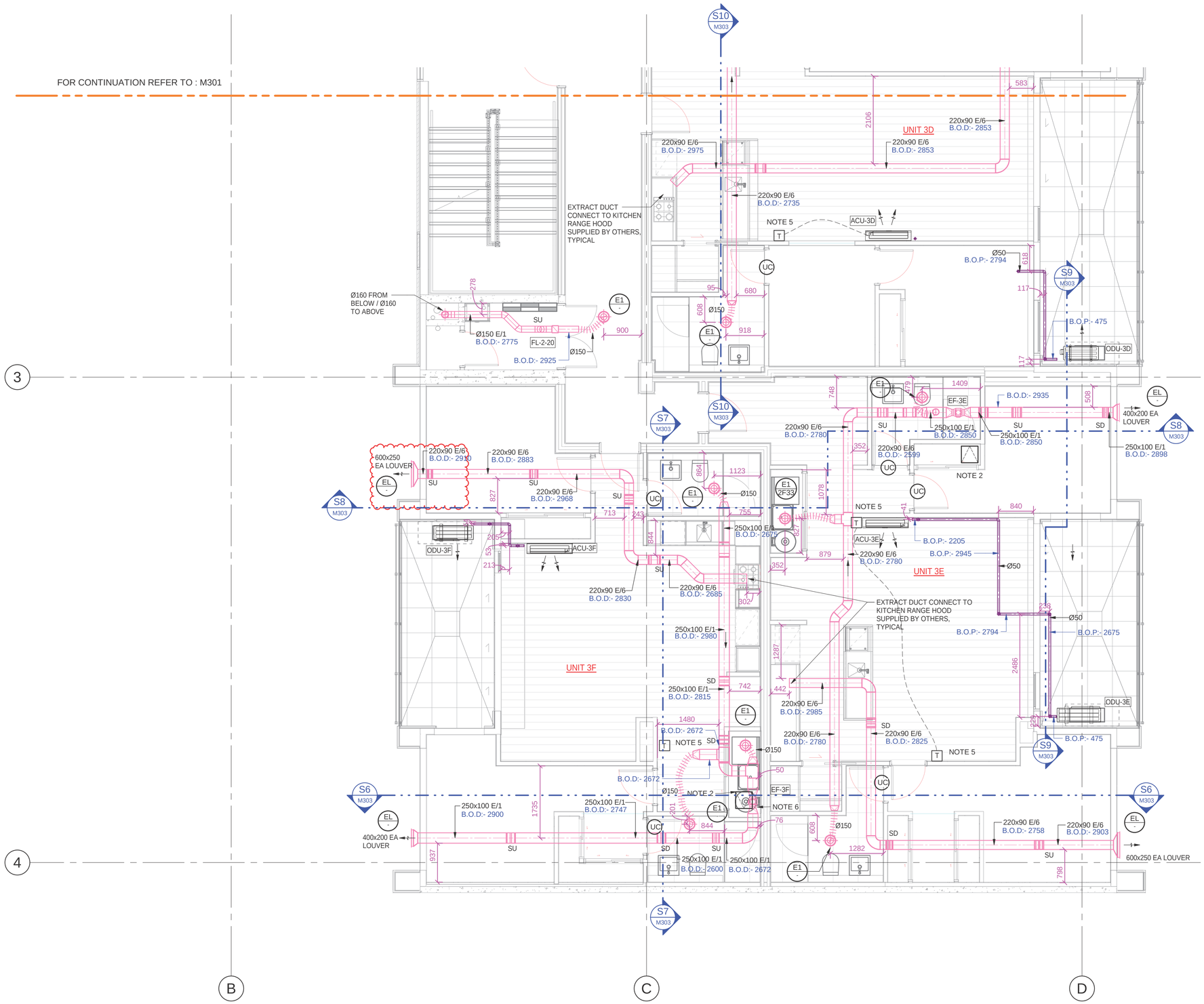
Scale	A1=As indicated
Date	30-11-18
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

Job Title: LEVEL 3 HVAC LAYOUT SHEET 1

Drawing number: M301

Issue: A



2 M302 LEVEL 3 HVAC LAYOUT SHEET 2
1 : 50

GENERAL NOTES:

1. B.O.D (BOTTOM OF DUCTS) & B.O.P (BOTTOM OF PIPES) ARE GIVEN FROM STRUCTURAL LEVEL
2. CEILING ACCESS PANEL FOR DAMPERS AND EQUIPMENT. ARCHITETURAL CONTRACTORS TO BE CONFIRM.
3. ALL CEILING HEIGHTS SHOWN THUS: 2400
4. UC = DOOR UNDERCUT 20MM
5. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN RUN ON TIMER.
6. FAN IS CONTINUOUS OPERATION.

LEGEND:-	
	(S) SUPPLY AIR DUCT
	(E) EXHAUST AIR DUCT
	(OA) OUTDOOR AIR DUCT
	(R) RETURN AIR DUCT
	AV REFRIGERANT PIPE
B.O.D	BOTTOM OF DUCT
B.O.P	BOTTOM OF PIPE
FD	FIRE DAMPER
ACU	AIR CONDITIONER UNIT
ODU	OUTDOOR UNIT
SF	SUPPLY FAN
EF	EXHAUST FAN
UC	DOOR UNDERCUT
AP	ACCESS PANEL (400x400)
SU	SET UP
SD	SET DOWN
T	THERMOSTAT
	FLOW DIRECTION
	AIR FLOW
S2 200	GRILL REFERNCE / AIR VOLUME (L/S)
	CEILING GRILLE / DIFFUSER (CIRCULAR)
	OUT DOOR EXHAUST GRILLE
	CEILING GRILLE / DIFFUSER (SQUARE)
	CEILING RETURN / EXHAUST GRILLE
	SIDE WALL GRILLE / DIFFUSER

INSULATION NOTES:-

1 - PLAIN GMS
2 - GMS c/w 25MM INT. INSULATION
3 - GMS c/w 50MM INT. INSULATION
4 - GMS c/w 25MM EXT. INSULATION
5 - GMS c/w 50MM EXT. INSULATION
6 - PVC OR SIMILAR

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL	

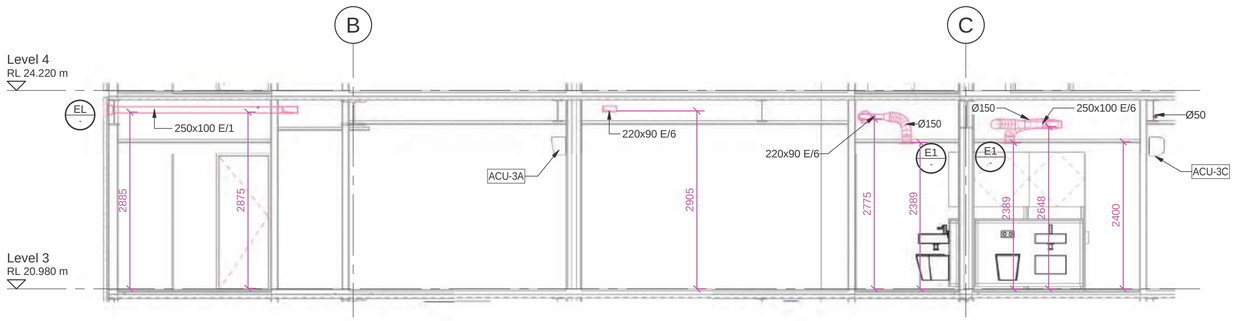
Scale	A1=As indicated
Date	30-11-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

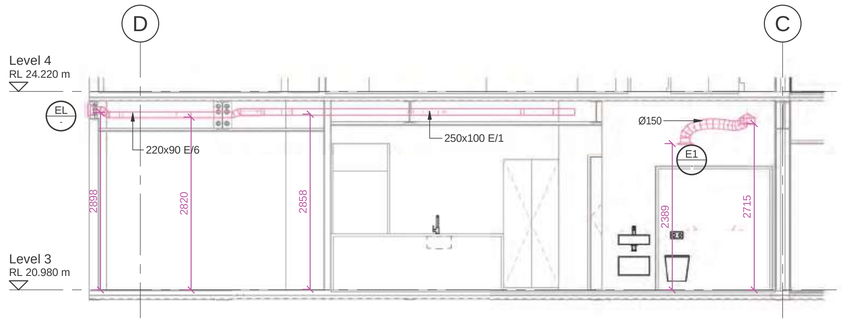
Job Title: LEVEL 3 HVAC LAYOUT SHEET 2

Drawing number: M302

Issue: A



S1 M303 SECTION L3-S1
1 : 50



S2 M303 SECTION L3-S2
1 : 50

GENERAL NOTES:

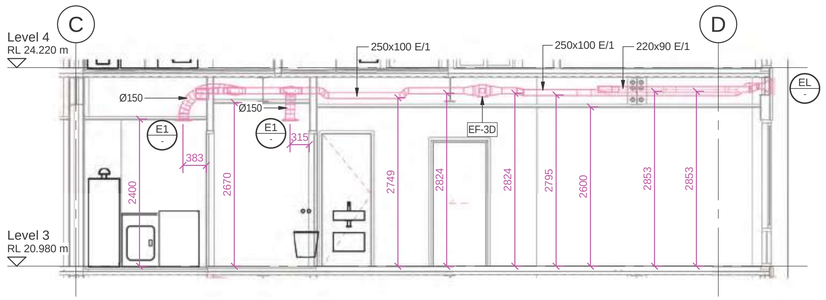
1. B.O.D (BOTTOM OF DUCTS) & B.O.P (BOTTOM OF PIPES) ARE GIVEN FROM STRUCTURAL LEVEL
2. CEILING ACCESS PANEL FOR DAMPERS AND EQUIPMENT. ARCHITETURAL CONTRACTORS TO BE CONFIRM.
3. ALL CEILING HEIGHTS SHOWN THUS: 2400
4. UC = DOOR UNDERCUT 20MM
5. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN RUN ON TIMER.
6. FAN IS CONTINUOUS OPERATION.

LEGEND:-

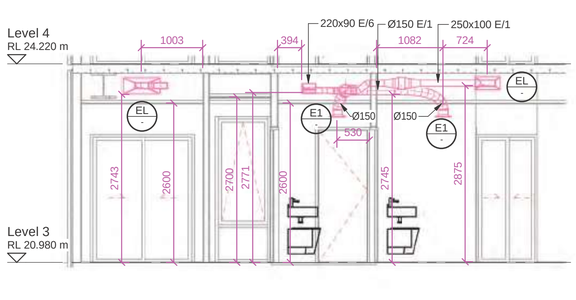
	(S) SUPPLY AIR DUCT
	(E) EXHAUST AIR DUCT
	(OA) OUTDOOR AIR DUCT
	(R) RETURN AIR DUCT
	AV REFRIGERANT PIPE
B.O.D	BOTTOM OF DUCT
B.O.P	BOTTOM OF PIPE
FD	FIRE DAMPER
ACU	AIR CONDITIONER UNIT
ODU	OUTDOOR UNIT
SF	SUPPLY FAN
EF	EXHAUST FAN
UC	DOOR UNDERCUT
AP	ACCESS PANEL (400x400)
SU	SET UP
SD	SET DOWN
T	THERMOSTAT
	FLOW DIRECTION
	AIR FLOW
S2	GRILL REFERNCE
200	AIR VOLUME (L/S)
	CEILING GRILLE / DIFFUSER (CIRCULAR)
	OUT DOOR EXHAUST GRILLE
	CEILING GRILLE / DIFFUSER (SQUARE)
	CEILING RETURN / EXHAUST GRILLE
	SIDE WALL GRILLE / DIFFUSER

INSULATION NOTES:-

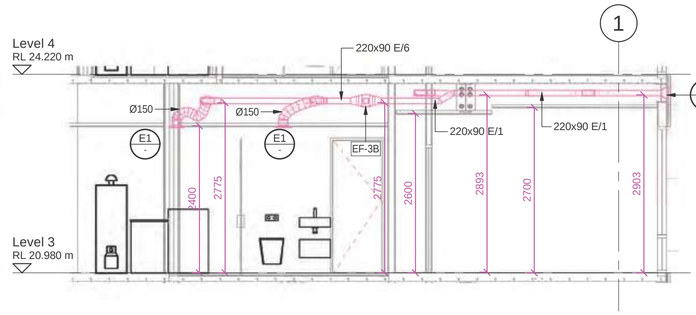
1 - PLAIN GMS
2 - GMS c/w 25MM INT. INSULATION
3 - GMS c/w 50MM INT. INSULATION
4 - GMS c/w 25MM EXT. INSULATION
5 - GMS c/w 50MM EXT. INSULATION
6 - PVC OR SIMILAR



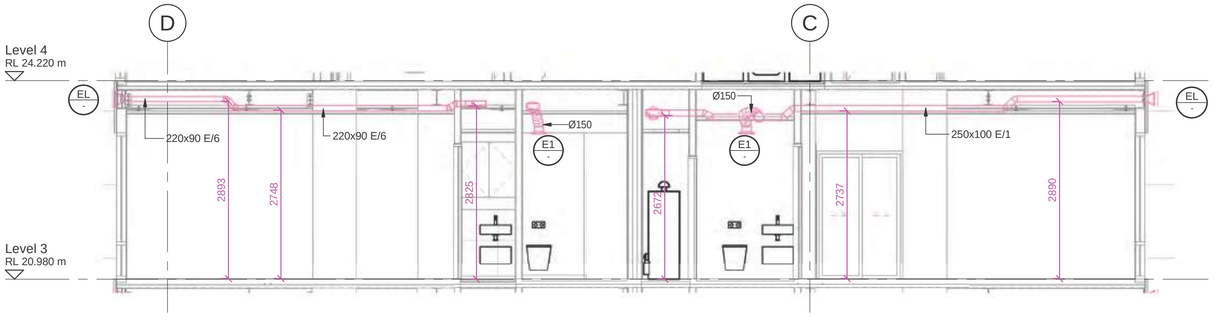
S3 M303 SECTION L3-S3
1 : 50



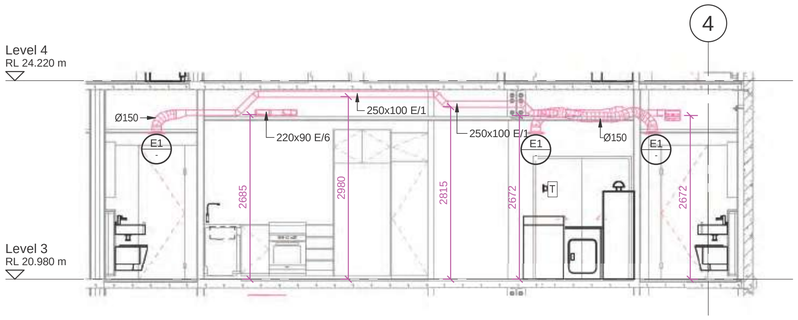
S4 M303 SECTION L3-S4
1 : 50



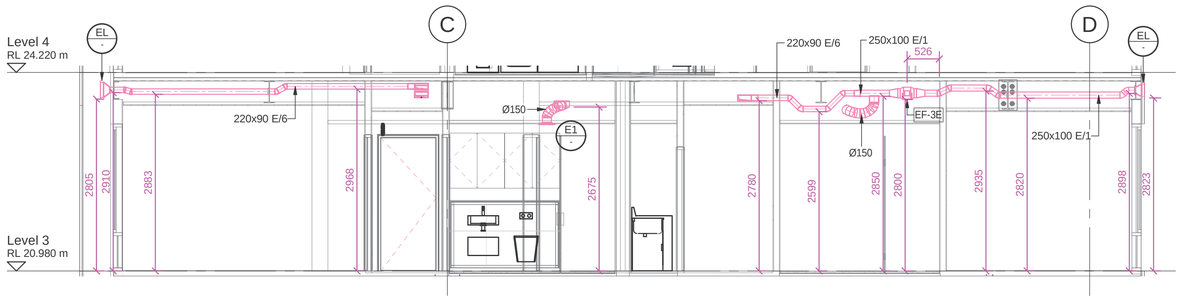
S5 M303 SECTION L3-S5
1 : 50



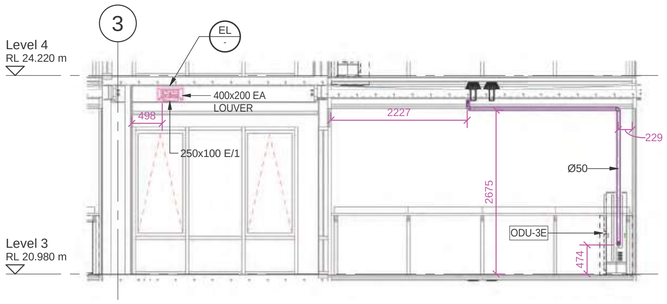
S6 M303 SECTION L3-S6
1 : 50



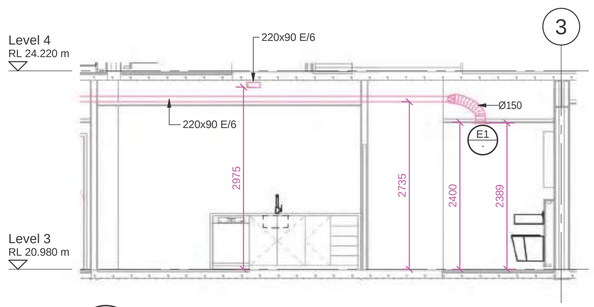
S7 M303 SECTION L3-S7
1 : 50



S8 M303 SECTION L3-S8
1 : 50



S9 M303 SECTION L3-S9
1 : 50



S10 M303 SECTION L3-S10
1 : 50

Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	30-11-18	LEVEL 3 SHOP DRAWING - ISSUED FOR APPROVAL	

Scale	A1=As indicated
Date	30-11-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

Job Title: LEVEL 3 HVAC SECTIONAL VIEW

Drawing number: M303

Issue: A

SHEET LIST

SHEET NUMBER	SHEET NAME	ISSUE	ISSUED DATE	CURRENT ISSUED DESCRIPTION
M000	COVER PAGE & SHEET LIST	D	03-12-18	LEVEL-4 SHOP DRAWING ADDED
M101	LEVEL 1 HVAC LAYOUT SHEET 1	A	26-11-18	LEVEL-1 SHOP DRAWING - ISSUED FOR APPROVAL
M102	LEVEL 1 HVAC LAYOUT SHEET 2	A	26-11-18	LEVEL-1 SHOP DRAWING - ISSUED FOR APPROVAL
M103	LEVEL 1 HVAC SECTIONAL VIEW	A	26-11-18	LEVEL-1 SHOP DRAWING - ISSUED FOR APPROVAL
M201	LEVEL 2 HVAC LAYOUT SHEET 1	A	28-11-18	LEVEL-2 SHOP DRAWING - ISSUED FOR APPROVAL
M202	LEVEL 2 HVAC LAYOUT SHEET 2	A	28-11-18	LEVEL-2 SHOP DRAWING - ISSUED FOR APPROVAL
M203	LEVEL 2 HVAC SECTIONAL VIEW	A	28-11-18	LEVEL-2 SHOP DRAWING - ISSUED FOR APPROVAL
M301	LEVEL 3 HVAC LAYOUT SHEET 1	A	30-11-18	LEVEL-3 SHOP DRAWING - ISSUED FOR APPROVAL
M302	LEVEL 3 HVAC LAYOUT SHEET 2	A	30-11-18	LEVEL-3 SHOP DRAWING - ISSUED FOR APPROVAL
M303	LEVEL 3 HVAC SECTIONAL VIEW	A	30-11-18	LEVEL-3 SHOP DRAWING - ISSUED FOR APPROVAL
M401	LEVEL 4 HVAC LAYOUT SHEET 1	A	03-12-18	LEVEL-4 SHOP DRAWING - ISSUED FOR APPROVAL
M402	LEVEL 4 HVAC LAYOUT SHEET 2	A	03-12-18	LEVEL-4 SHOP DRAWING - ISSUED FOR APPROVAL
M403	LEVEL 4 HVAC SECTIONAL VIEW	A	03-12-18	LEVEL-4 SHOP DRAWING - ISSUED FOR APPROVAL

D

PROJECT NAME : LATITUDE APARTMENT

PROJECT NO. : FBB1090

MECHANICAL SERVICES

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
D	03-12-18	LEVEL-4 SHOP DRAWING ADDED	
C	30-11-18	LEVEL-3 SHOP DRAWING ADDED	
B	28-11-18	LEVEL-2 SHOP DRAWING ADDED	
A	26-11-18	LEVEL-1 SHOP DRAWING ADDED	

Scale	A1=
Date	26-11-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

Job Title: COVER PAGE & SHEET LIST

Drawing number: M000

Issue: D

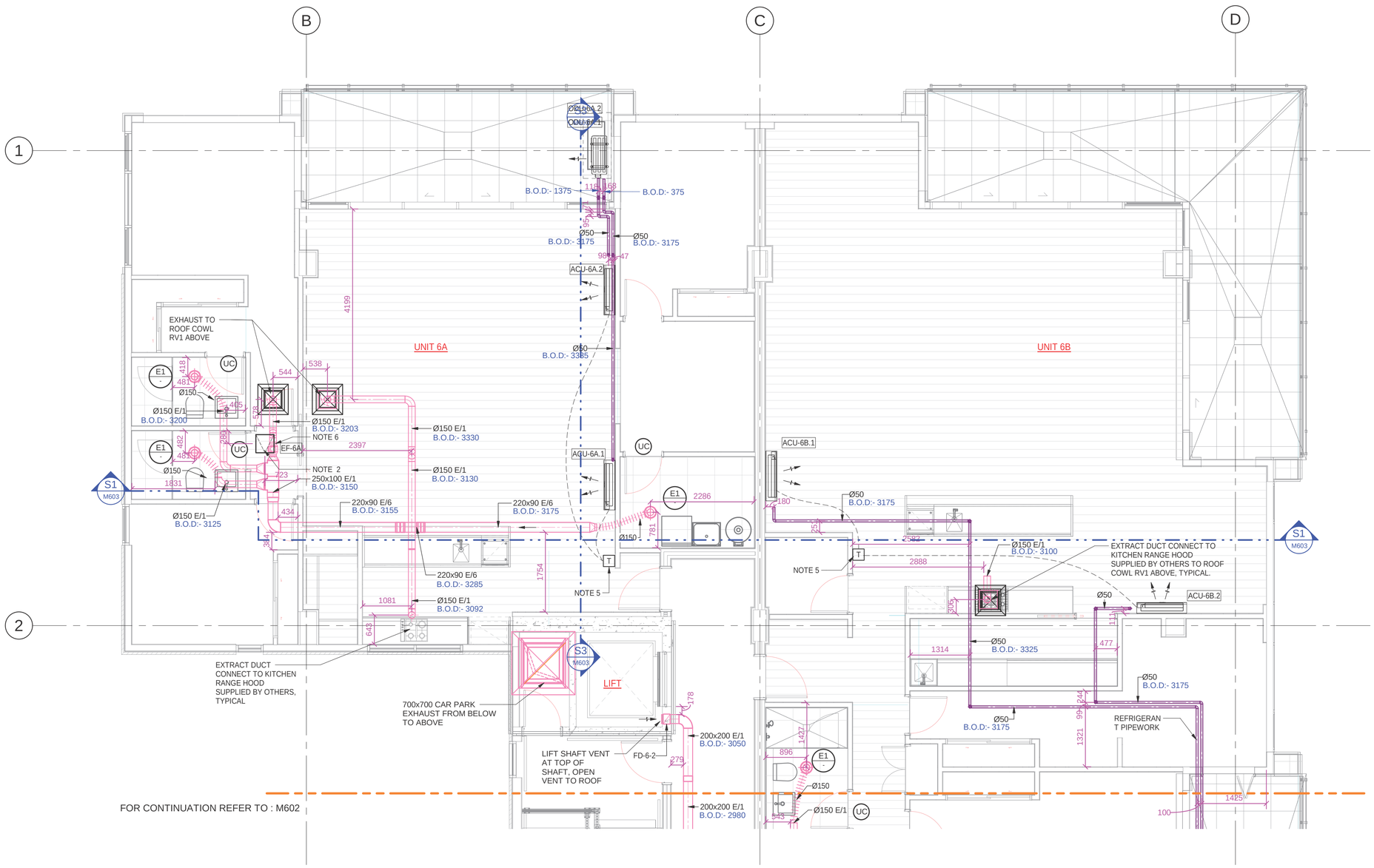
GENERAL NOTES:

1. B.O.D (BOTTOM OF DUCTS) & B.O.P (BOTTOM OF PIPES) ARE GIVEN FROM STRUCTURAL LEVEL
2. CEILING ACCESS PANEL FOR DAMPERS AND EQUIPMENT. ARCHITETURAL CONTRACTORS TO BE CONFIRM.
3. ALL CEILING HEIGHTS SHOWN THUS: 2400
4. UC = DOOR UNDERCUT 20MM
5. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN RUN ON TIMER.
6. FAN IS CONTINUOUS OPERATION.

LEGEND:-	
	(S) SUPPLY AIR DUCT
	(E) EXHAUST AIR DUCT
	(OA) OUTDOOR AIR DUCT
	(R) RETURN AIR DUCT
	AV REFRIGERANT PIPE
B.O.D	BOTTOM OF DUCT
B.O.P	BOTTOM OF PIPE
FD	FIRE DAMPER
ACU	AIR CONDITIONER UNIT
ODU	OUTDOOR UNIT
SF	SUPPLY FAN
EF	EXHAUST FAN
UC	DOOR UNDERCUT
AP	ACCESS PANEL (400x400)
SU	SET UP
SD	SET DOWN
T	THERMOSTAT
	FLOW DIRECTION
	AIR FLOW
S2 / 200	GRILL REFERNCE / AIR VOLUME (L/S)
	CEILING GRILLE / DIFFUSER (CIRCULAR)
	OUT DOOR EXHAUST GRILLE
	CEILING GRILLE / DIFFUSER (SQUARE)
	CEILING RETURN / EXHAUST GRILLE
	SIDE WALL GRILLE / DIFFUSER

INSULATION NOTES:-

1 - PLAIN GMS
2 - GMS c/w 25MM INT. INSULATION
3 - GMS c/w 50MM INT. INSULATION
4 - GMS c/w 25MM EXT. INSULATION
5 - GMS c/w 50MM EXT. INSULATION
6 - PVC OR SIMILAR



1 / M601 LEVEL 6 HVAC LAYOUT SHEET 1

1 : 50

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL	

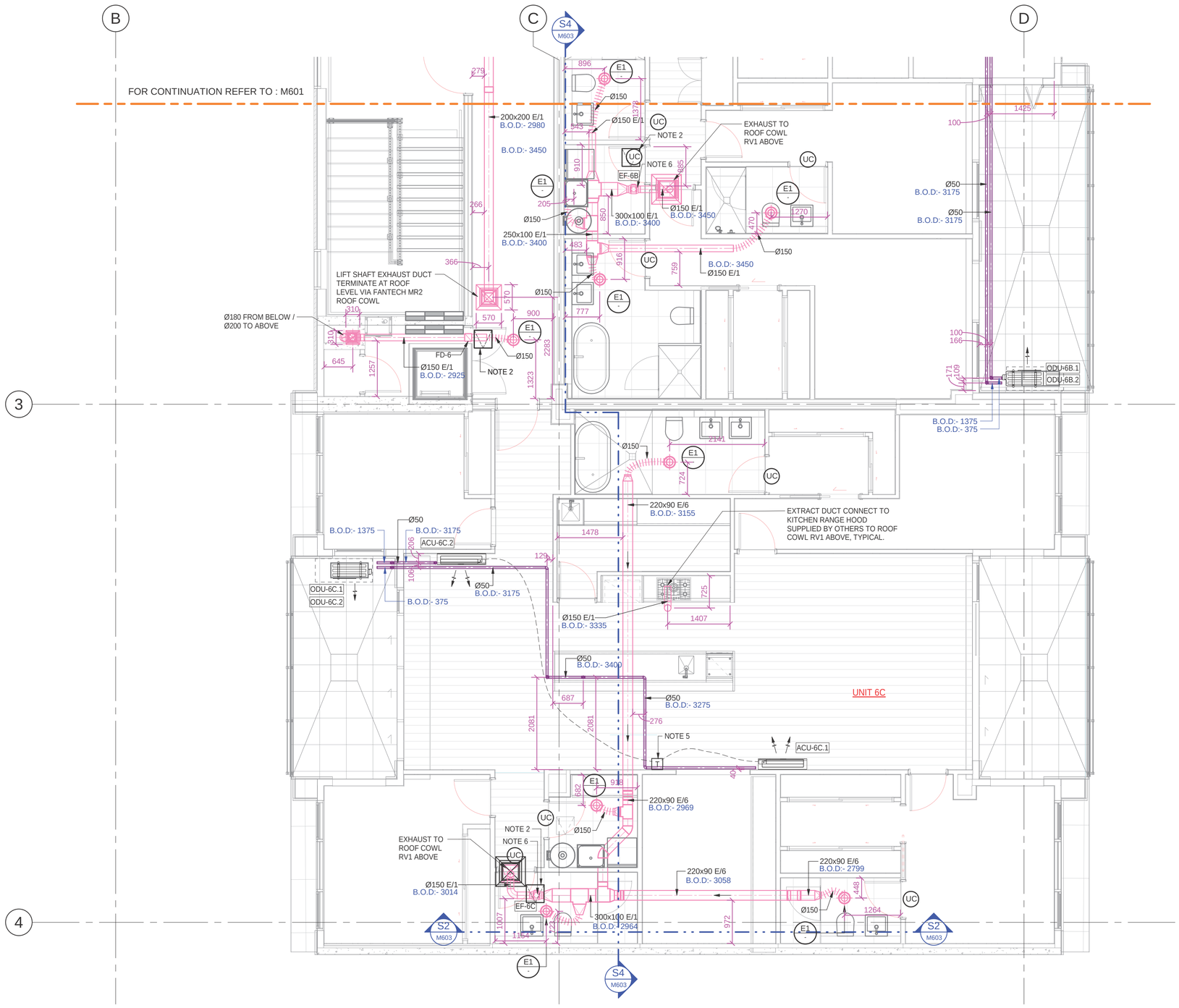
Scale	A1=As indicated
Date	10-12-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

Job Title: LEVEL 6 HVAC LAYOUT SHEET 1

Drawing number: M601

Issue: A



2 M602 LEVEL 6 HVAC LAYOUT SHEET 2

1 : 50

GENERAL NOTES:

1. B.O.D (BOTTOM OF DUCTS) & B.O.P (BOTTOM OF PIPES) ARE GIVEN FROM STRUCTURAL LEVEL
2. CEILING ACCESS PANEL FOR DAMPERS AND EQUIPMENT. ARCHITETURAL CONTRACTORS TO BE CONFIRM.
3. ALL CEILING HEIGHTS SHOWN THUS: 2400
4. UC = DOOR UNDERCUT 20MM
5. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN RUN ON TIMER.
6. FAN IS CONTINUOUS OPERATION.

LEGEND:-	
	(S) SUPPLY AIR DUCT
	(E) EXHAUST AIR DUCT
	(OA) OUTDOOR AIR DUCT
	(R) RETURN AIR DUCT
	AV REFRIGERANT PIPE
B.O.D	BOTTOM OF DUCT
B.O.P	BOTTOM OF PIPE
FD	FIRE DAMPER
ACU	AIR CONDITIONER UNIT
ODU	OUTDOOR UNIT
SF	SUPPLY FAN
EF	EXHAUST FAN
UC	DOOR UNDERCUT
AP	ACCESS PANEL (400x400)
SU	SET UP
SD	SET DOWN
T	THERMOSTAT
	FLOW DIRECTION
	AIR FLOW
S2	GRILL REFERNCE
200	AIR VOLUME (L/S)
	CEILING GRILLE / DIFFUSER (CIRCULAR)
	OUT DOOR EXHAUST GRILLE
	CEILING GRILLE / DIFFUSER (SQUARE)
	CEILING RETURN / EXHAUST GRILLE
	SIDE WALL GRILLE / DIFFUSER

INSULATION NOTES:-

1 - PLAIN GMS
2 - GMS c/w 25MM INT. INSULATION
3 - GMS c/w 50MM INT. INSULATION
4 - GMS c/w 25MM EXT. INSULATION
5 - GMS c/w 50MM EXT. INSULATION
6 - PVC OR SIMILAR

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL	

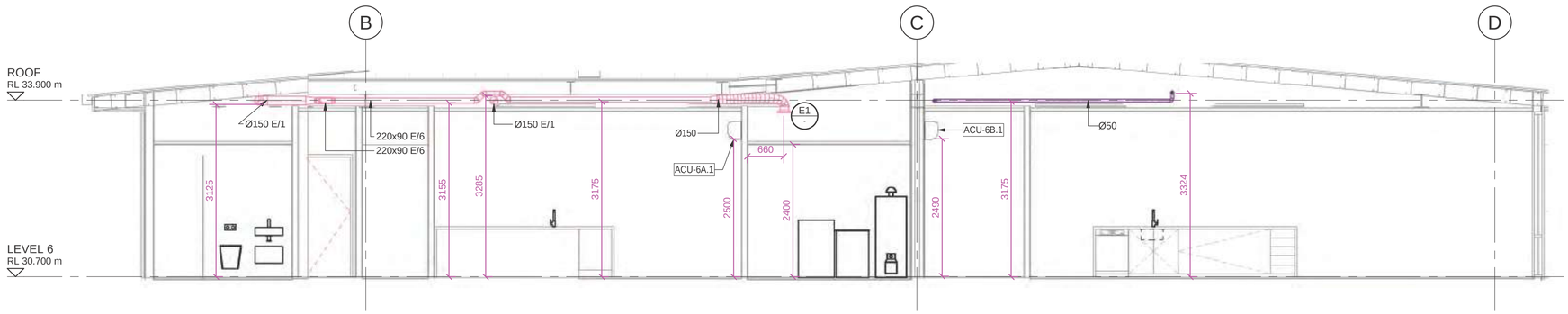
Scale	A1=As indicated
Date	10-12-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

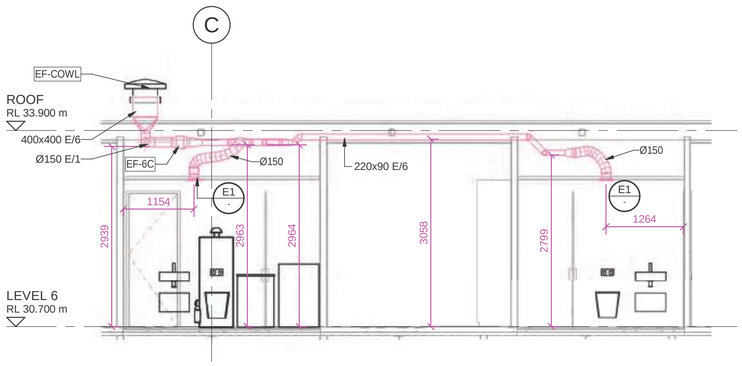
Job Title: LEVEL 6 HVAC LAYOUT SHEET 2

Drawing number: M602

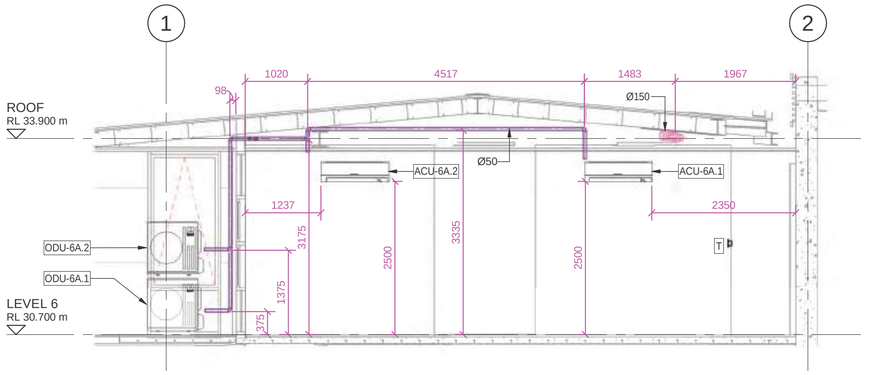
Issue: A



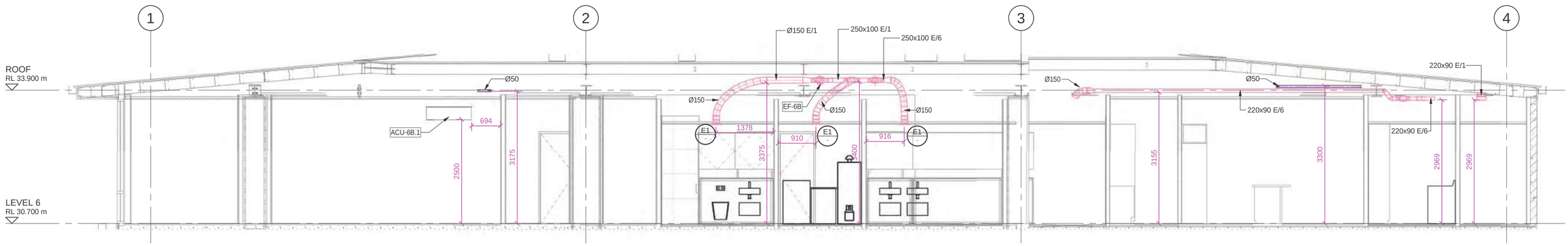
S1 / M603 SECTION L6-S1
1 : 50



S2 / M603 SECTION L6-S2
1 : 50



S3 / M603 SECTION L6-S3
1 : 50



S4 / M603 SECTION L6-S4
1 : 50

GENERAL NOTES:

1. B.O.D (BOTTOM OF DUCTS) & B.O.P (BOTTOM OF PIPES) ARE GIVEN FROM STRUCTURAL LEVEL
2. CEILING ACCESS PANEL FOR DAMPERS AND EQUIPMENT. ARCHITETURAL CONTRACTORS TO BE CONFIRM.
3. ALL CEILING HEIGHTS SHOWN THUS: 2400
4. UC = DOOR UNDERCUT 20MM
5. FAN CONTROLLED BY LIGHT SWITCH FROM EITHER BATHROOM OR LAUNDRY WITH 15 MIN RUN ON TIMER.
6. FAN IS CONTINUOUS OPERATION.

LEGEND:-	
	(S) SUPPLY AIR DUCT
	(E) EXHAUST AIR DUCT
	(OA) OUTDOOR AIR DUCT
	(R) RETURN AIR DUCT
	AV REFRIGERANT PIPE
B.O.D	BOTTOM OF DUCT
B.O.P	BOTTOM OF PIPE
FD	FIRE DAMPER
ACU	AIR CONDITIONER UNIT
ODU	OUTDOOR UNIT
SF	SUPPLY FAN
EF	EXHAUST FAN
UC	DOOR UNDERCUT
AP	ACCESS PANEL (400x400)
SU	SET UP
SD	SET DOWN
T	THERMOSTAT
	FLOW DIRECTION
	AIR FLOW
S2 / 200	GRILL REFERNCE / AIR VOLUME (L/S)
	CEILING GRILLE / DIFFUSER (CIRCULAR)
	OUT DOOR EXHAUST GRILLE
	CEILING GRILLE / DIFFUSER (SQUARE)
	CEILING RETURN / EXHAUST GRILLE
	SIDE WALL GRILLE / DIFFUSER

INSULATION NOTES:-

1 - PLAIN GMS
2 - GMS c/w 25MM INT. INSULATION
3 - GMS c/w 50MM INT. INSULATION
4 - GMS c/w 25MM EXT. INSULATION
5 - GMS c/w 50MM EXT. INSULATION
6 - PVC OR SIMILAR

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	10-12-18	LEVEL 6 SHOP DRAWING - ISSUED FOR APPROVAL	

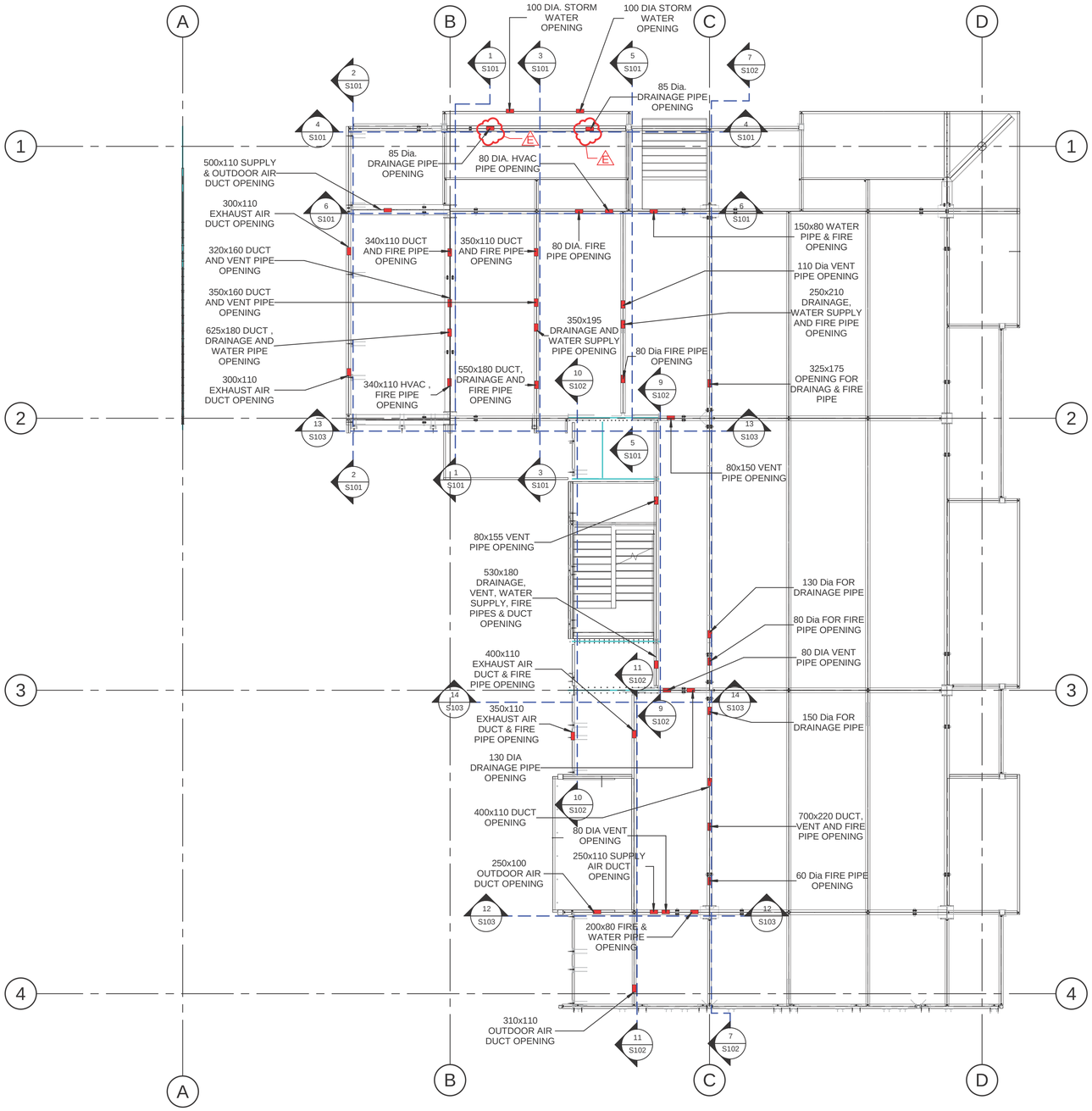
Scale	A1=As indicated
Date	10-12-2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: Latitude Apartment
8- 10 Park Street

Job Title: LEVEL 6 HVAC SECTIONAL VIEW

Drawing number: M603

Issue: A



1 LEVEL 1 GRID B-C PENETRATION LAYOUT

1 : 100

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
E	29-10-18	LEVEL 1 GRID B-C PENETRATION LAYOUT- ISSUED FOR APPROVAL	
D	25-10-18	HEIGHT OF PENETRATION CHANGED DUE TO VENT PIPE SLOPE & COORDINATION	
C	23-10-18	LEVEL 1 PENETRATION DRAWING - FINAL ISSUED FOR REVIEW	
B	18-10-18	REVISED THE PENETRATION SIZE TO CONFIRM NZS-4219	
A	05-10-18	LEVEL 1 PENETRATION DRAWING - ISSUED FOR REVIEW	

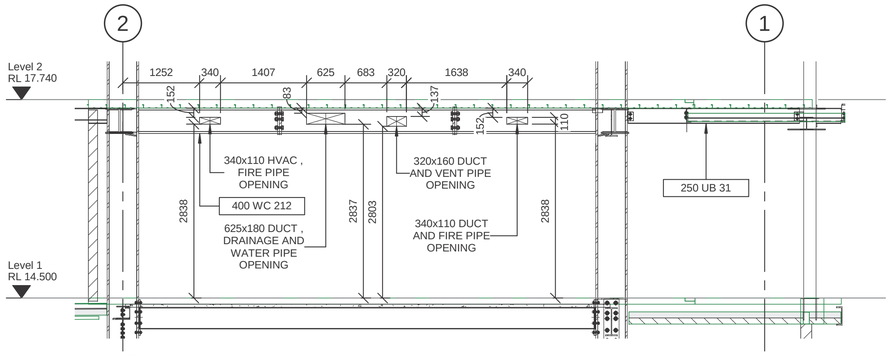
Scale	A1= 1 : 100
Date	29-10-18
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

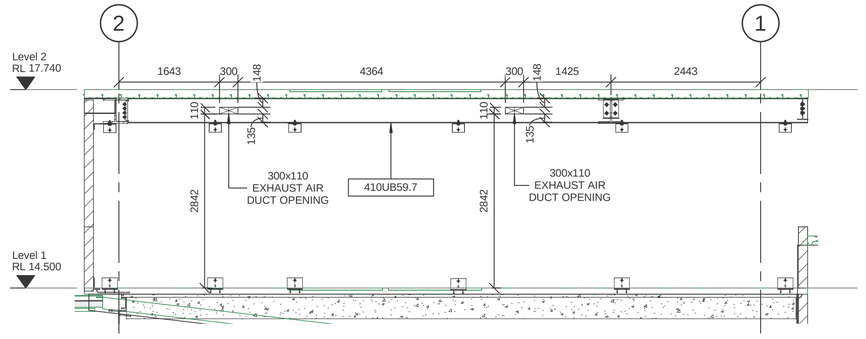
Job Title: LEVEL 1 GRID B-C PENETRATION LAYOUT

Drawing Number: S100

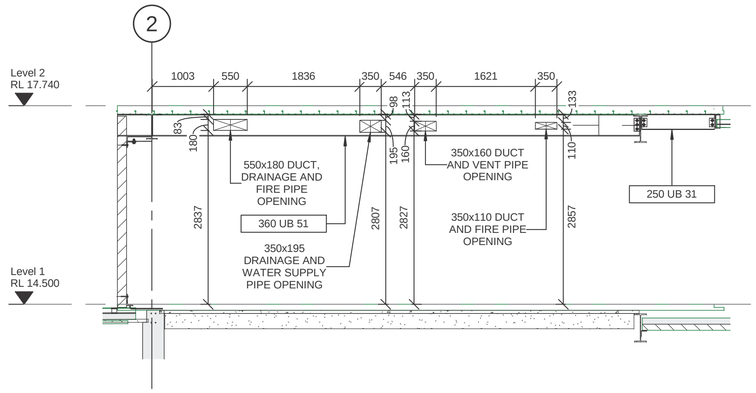
Issue: E



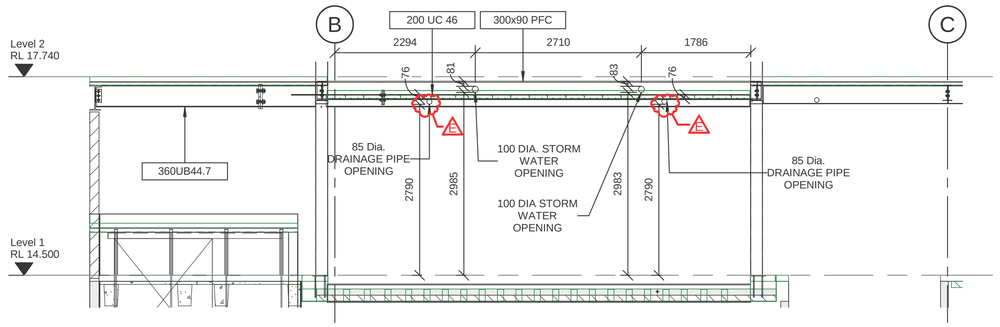
1 Section 1
1 : 50



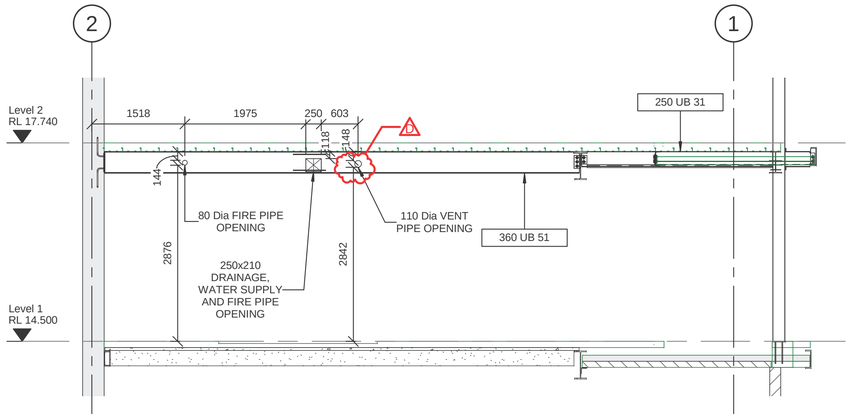
2 Section 2
1 : 50



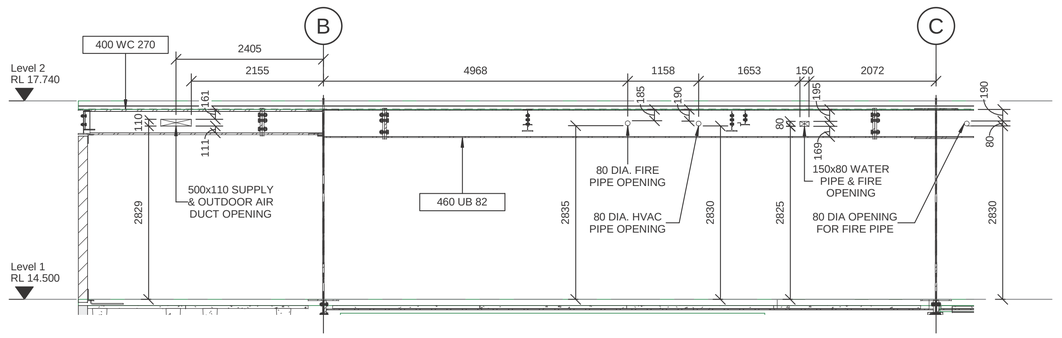
3 Section 3
1 : 50



4 Section 4
1 : 50



5 Section 5
1 : 50



6 Section 6
1 : 50

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
E	29-10-18	LEVEL 1 GRID B-C PENETRATION LAYOUT - ISSUED FOR APPROVAL	
D	25-10-18	HEIGHT OF PENETRATION CHANGED DUE TO VENT PIPE SLOPE & COORDINATION	
C	22-10-18	LEVEL 1 PENETRATION DRAWING - FINAL ISSUED FOR REVIEW	
B	18-10-18	REVISED THE PENETRATION SIZE TO CONFIRM NZS-4219	
A	05-10-18	LEVEL 1 PENETRATION DRAWING - ISSUED FOR REVIEW	

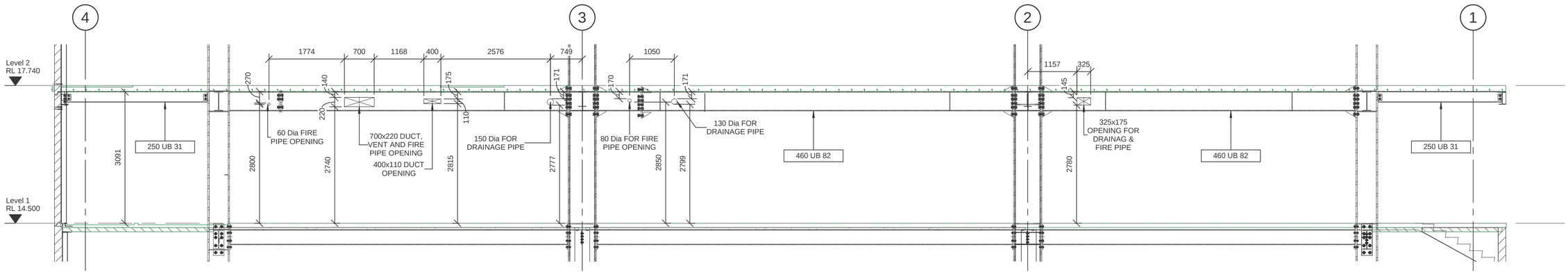
Scale	A1= 1 : 50
Date	29-10-18
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

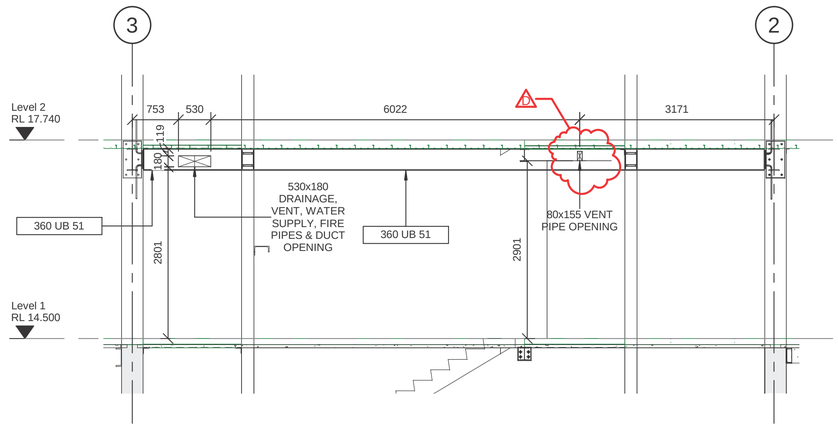
Job Title: LEVEL 1 GRID B-C SECTIONS LAYOUT 1

Drawing Number: S101

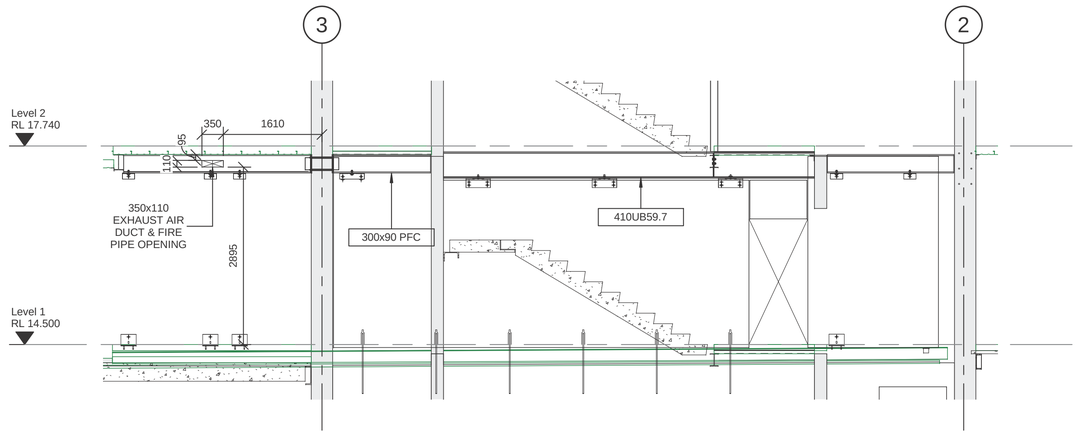
Issue: E



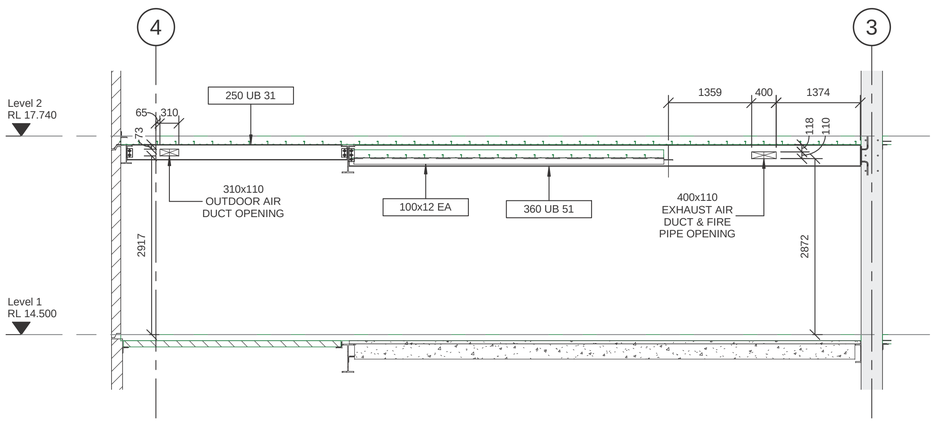
7 Section 7
1 : 50



9 Section 9
1 : 50



10 Section 10
1 : 50



11 Section 11
1 : 50

CLOUD DIFFERENTIATION :

MAGENTA :- RESIZE THE PENETRATION INORDER TO ACCOMODATE HYDRAULIC PIPES

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIBTION	INITIALS
D	25-10-18	HEIGHT OF PENETRATION CHANGED DUE TO VENT PIPE SLOPE & COORDINATION	
C	23-10-18	LEVEL 1 PENETRATION DRAWING - FINAL ISSUED FOR REVIEW	
B	18-10-18	REVISED THE PENETRATION SIZE TO CONFIRM NZS-4219	
A	05-10-18	LEVEL 1 PENETRATION DRAWING - ISSUED FOR REVIEW	

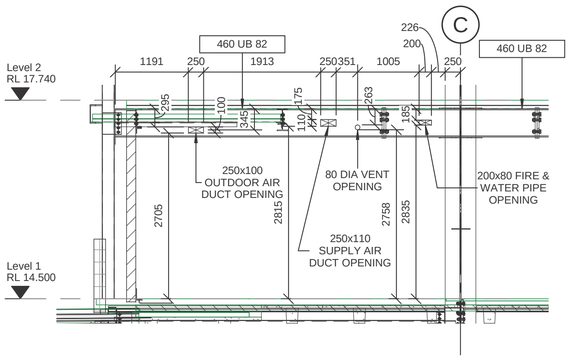
Scale	A1= 1 : 50
Date	25-10-18
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

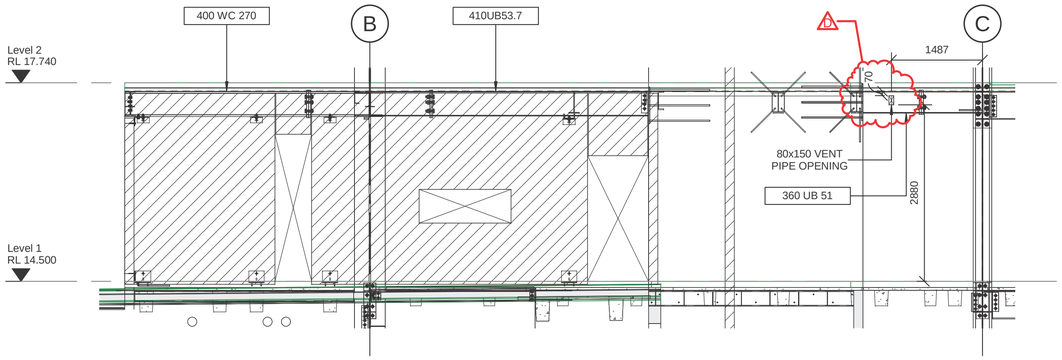
Job Title: LEVEL 1 GRID B-C SECTIONS LAYOUT 2

Drawing Number: S102

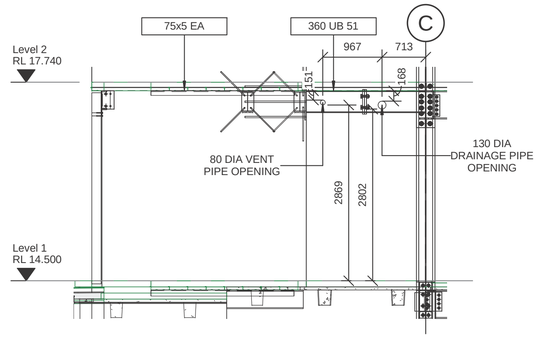
Issue: D



12 Section 12
1 : 50



13 Section 13
1 : 50



14 Section 14
1 : 50

CLOUD DIFFERENTIATION :

MAGENTA :- RESIZE THE PENETRATION INORDER TO ACCOMODATE HYDRAULIC PIPES

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
D	25-10-18	HEIGHT OF PENETRATION CHANGED DUE TO VENT PIPE SLOPE & COORDINATION	
C	23-10-18	LEVEL 1 PENETRATION DRAWING - FINAL ISSUED FOR REVIEW	
B	19-10-18	REVISED THE PENETRATION SIZE TO CONFIRM NZS 4219	
A	06-10-18	LEVEL 1 PENETRATION DRAWING - ISSUED FOR REVIEW	

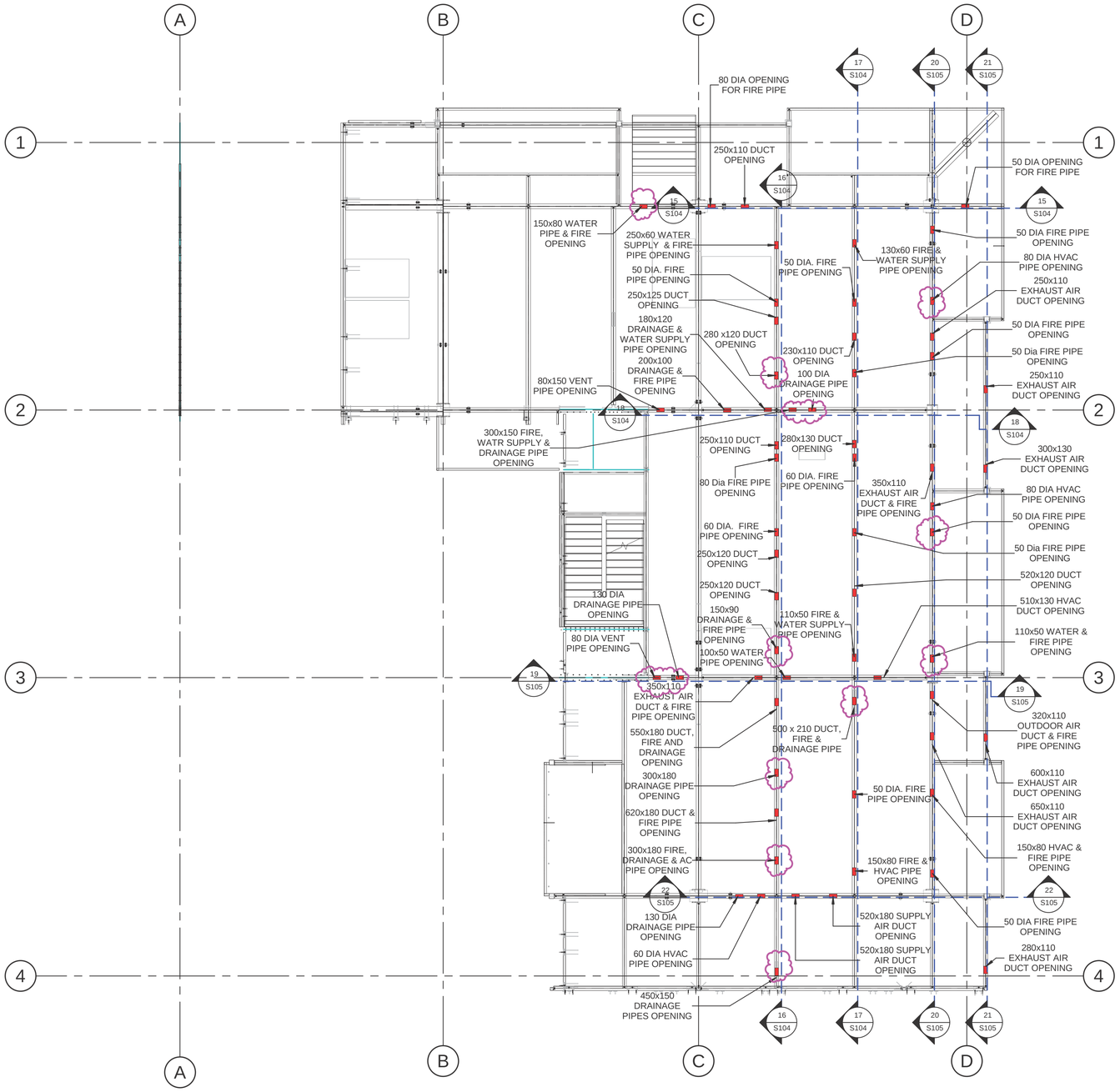
Scale	A1= 1 : 50
Date	25-10-18
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

Job Title: LEVEL 1 GRID B-C SECTIONS LAYOUT 3

Drawing Number: S103

Issue: D



1 LEVEL 1 GRID C-D PENETRATION LAYOUT

1 : 100

CLOUD DIFFERENTIATION :

MAGENTA :- RESIZE THE PENETRATION INORDER TO ACCOMODATE HYDRAULIC PIPES

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
C	24-10-18	LEVEL 1 PENETRATION DRAWING GRID C-D - FINAL ISSUED FOR REVIEW	
B	18-10-18	REVISED THE PENETRATION SIZE TO CONFIRM NZS-4219	
A	09-10-18	LEVEL 1 PENETRATION DRAWING - ISSUED FOR REVIEW	

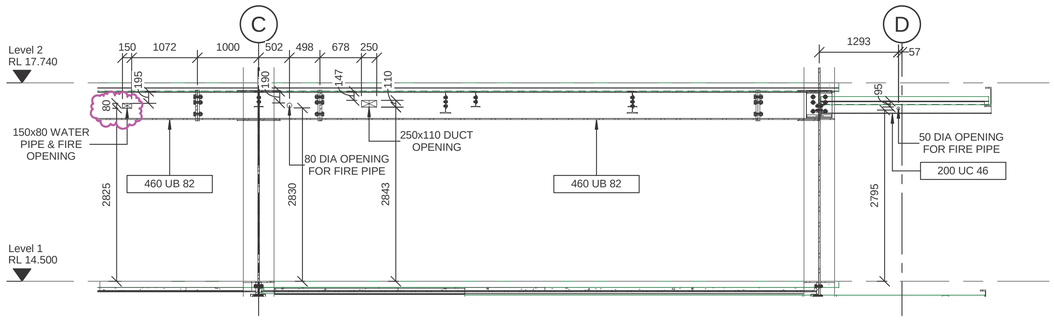
Scale	A1=As indicated
Date	24-10-18
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

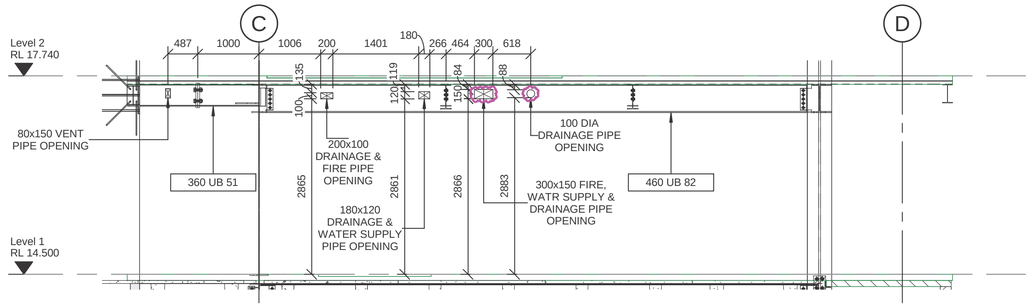
Job Title: LEVEL 1 GRID C-D PENETRATION LAYOUT

Drawing Number: S100A

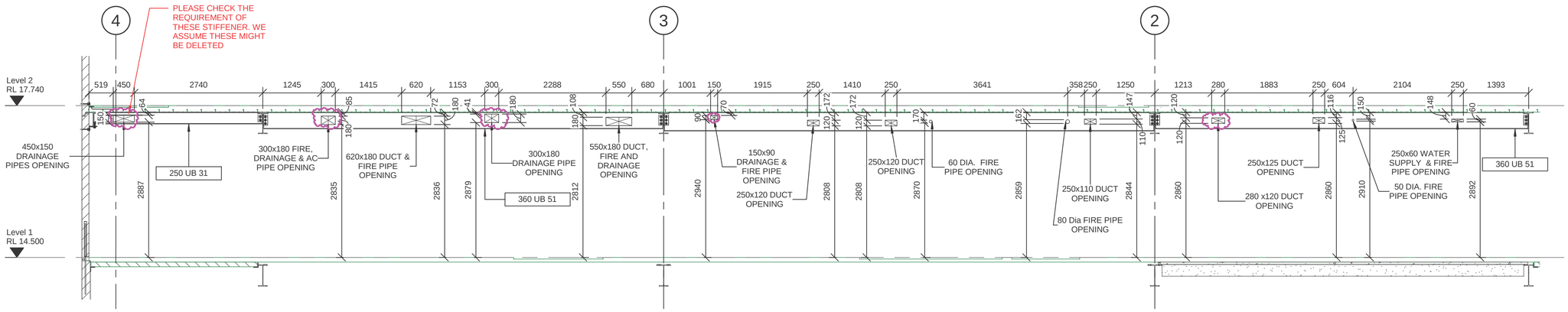
Issue: C



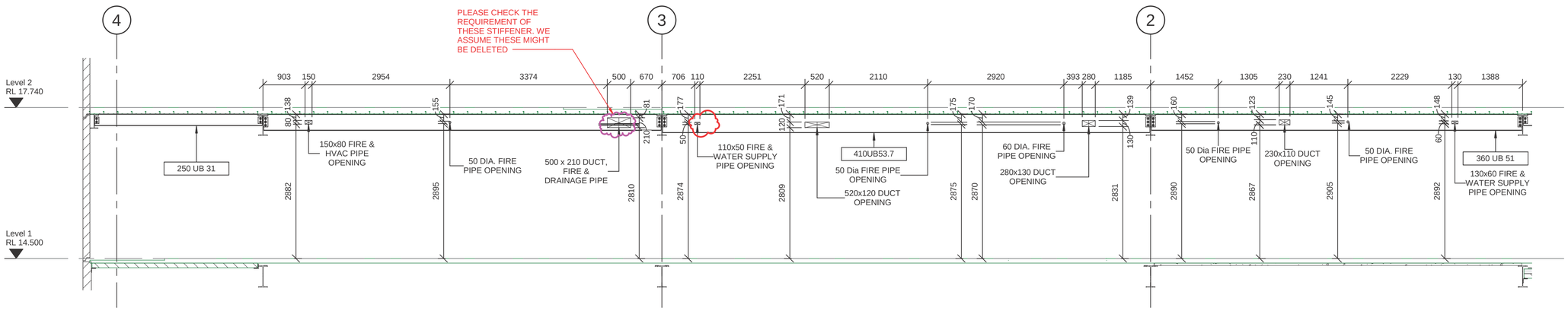
15 Section 15
1 : 50



18 Section 18
1 : 50



16 Section 16
1 : 50



17 Section 17
1 : 50

CLOUD DIFFERENTIATION :

MAGENTA :- RESIZE THE PENETRATION INORDER TO ACCOMODATE HYDRAULIC PIPES

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
C	24-10-18	LEVEL 1 PENETRATION DRAWING GRID C-D - FINAL ISSUED FOR REVIEW	
B	18-10-18	REVISED THE PENETRATION SIZE TO CONFIRM NZS-4219	
A	04-10-18	LEVEL 1 PENETRATION DRAWING - ISSUED FOR REVIEW	

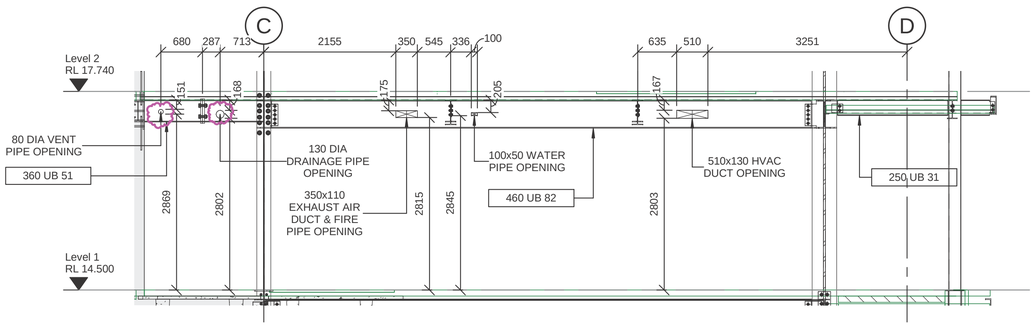
Scale	A1= 1 : 50
Date	24-10-18
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

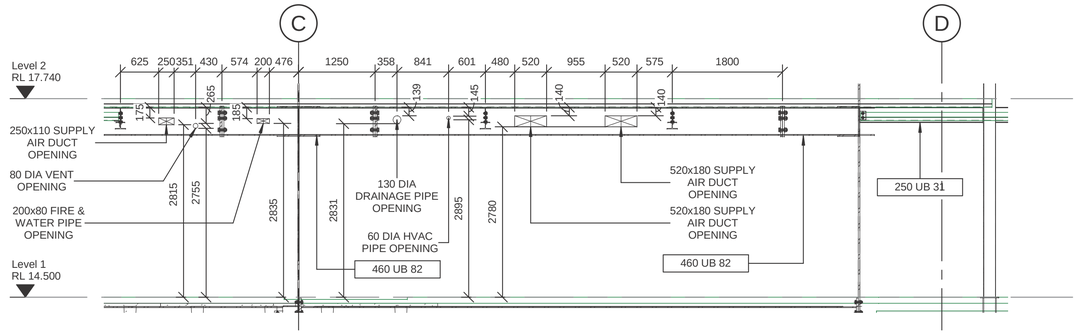
Job Title: LEVEL 1 GRID C-D SECTIONS LAYOUT 1

Drawing Number: S104

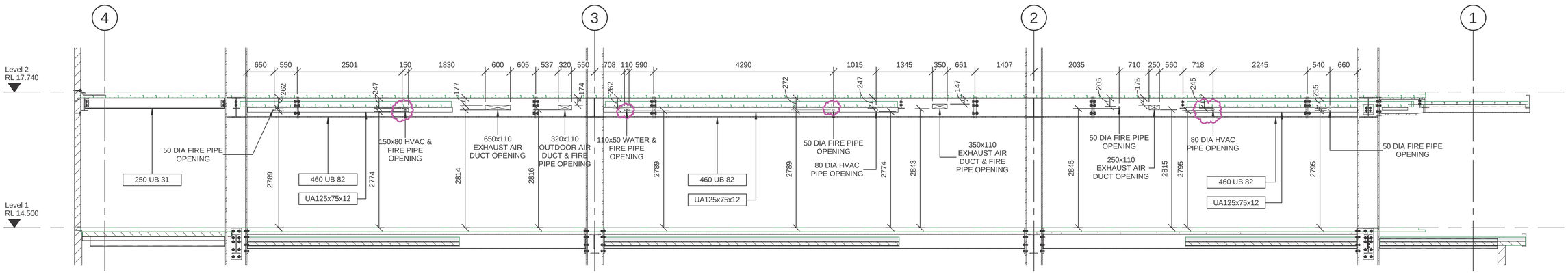
Issue: C



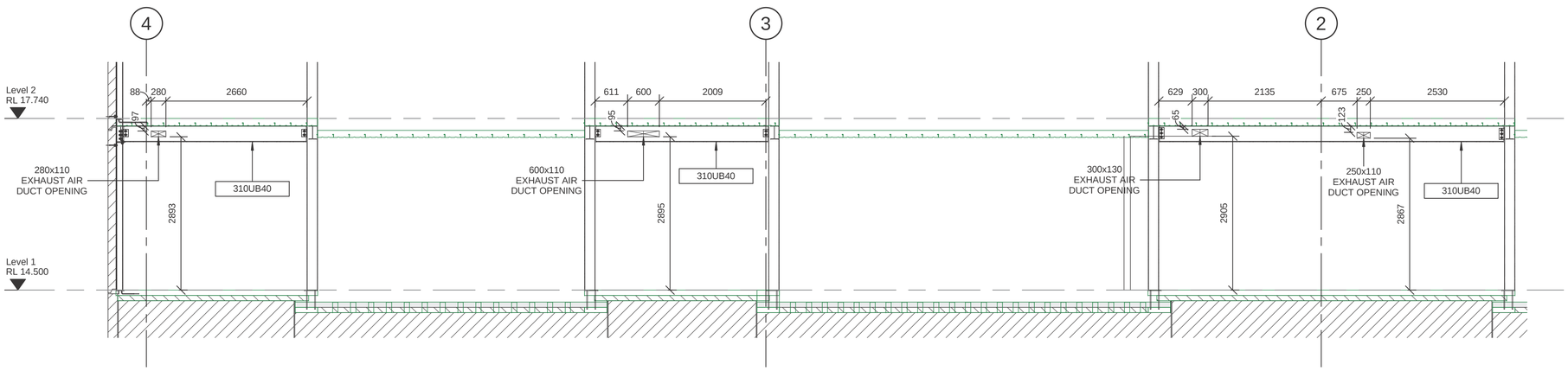
19 Section 19
1 : 50



22 Section 22
1 : 50



20 Section 20
1 : 50



21 Section 21
1 : 50

CLOUD DIFFERENTIATION :

MAGENTA :- RESIZE THE PENETRATION INORDER TO ACCOMODATE HYDRAULIC PIPES

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
C	24-10-18	LEVEL 1 PENETRATION DRAWING GRID C-D - FINAL ISSUED FOR REVIEW	
B	18-10-18	REVISED THE PENETRATION SIZE TO CONFIRM NZS 4219	
A	04-10-18	LEVEL 1 PENETRATION DRAWING - ISSUED FOR REVIEW	

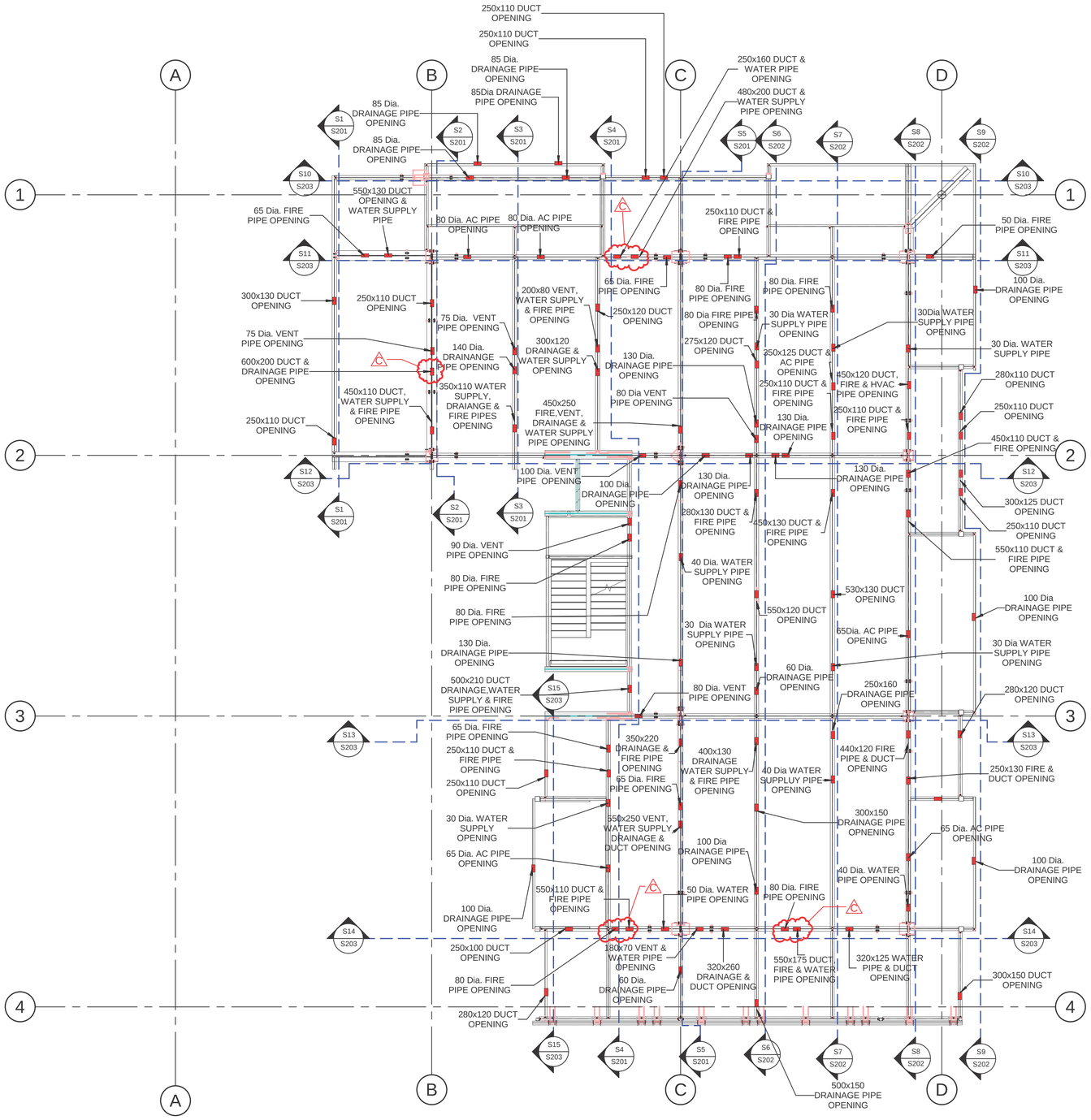
Scale	A1= 1 : 50
Date	24-10-18
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

Job Title: LEVEL 1 GRID C-D SECTIONS LAYOUT 2

Drawing Number: S105

Issue: C



1 LEVEL 2 PENETRATION LAYOUT

1 : 100

REVISION	DATE	DESCRIPTION	INITIALS
C	05-11-18	LEVEL 2 PENETRATION UPDATED AS PER CONSULTANT COMMENTS	
B	02-11-18	LEVEL 2 PENETRATION UPDATED AS PER CONSULTANT COMMENTS	
A	29-10-18	LEVEL 2 PENETRATION DRAWING - ISSUED FOR REVIEW	

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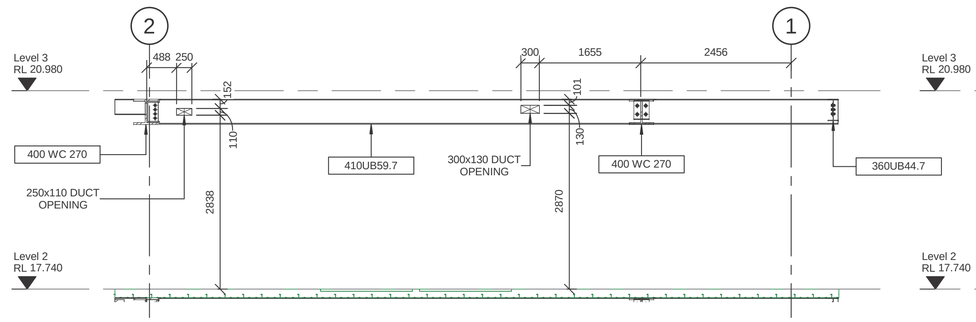
Scale	A1= 1 : 100
Date	05/11/18
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

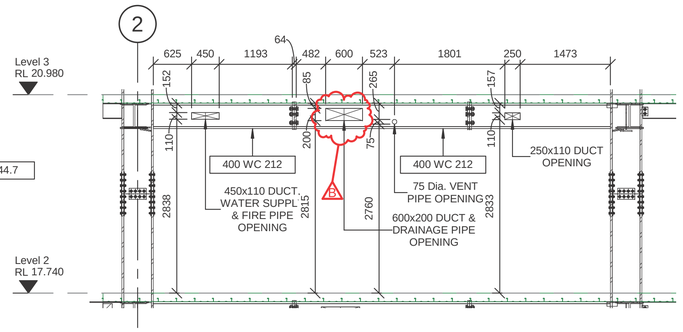
Job Title: LEVEL 2 PENETRATION LAYOUT

Drawing Number: S200

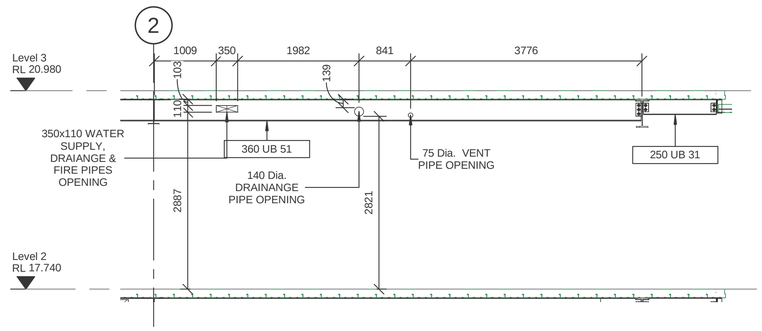
Issue: C



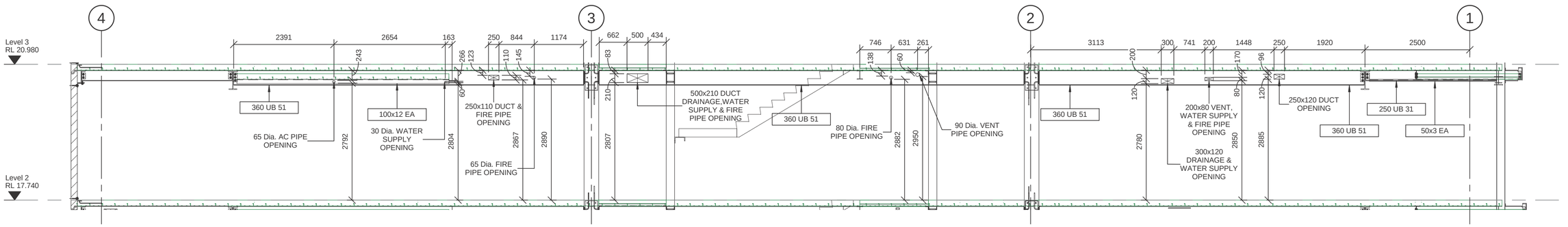
S1 L2-S1
1 : 50



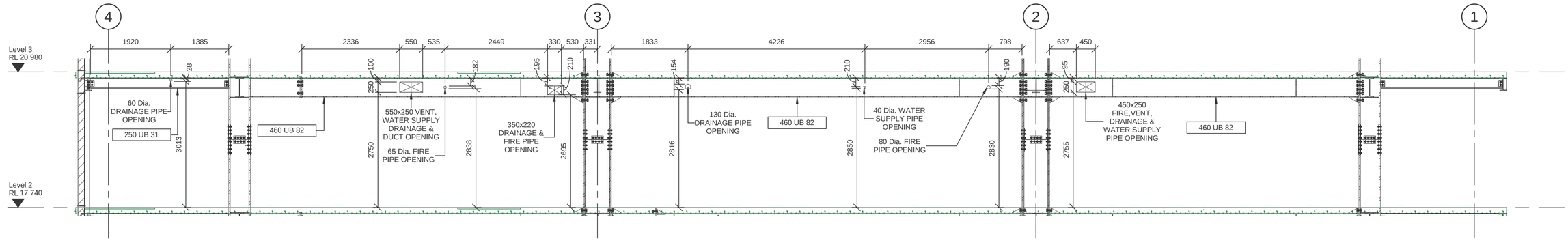
S2 L2-S2
1 : 50



S3 L2-S3
1 : 50



S4 L2-S4
1 : 50



S5 L2-S5
1 : 50

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ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	05-11-18	LEVEL 2 PENETRATION UPDATED AS PER CONSULTANT COMMENTS	
A	09-10-18	LEVEL 2 PENETRATION DRAWING - ISSUED FOR REVIEW	

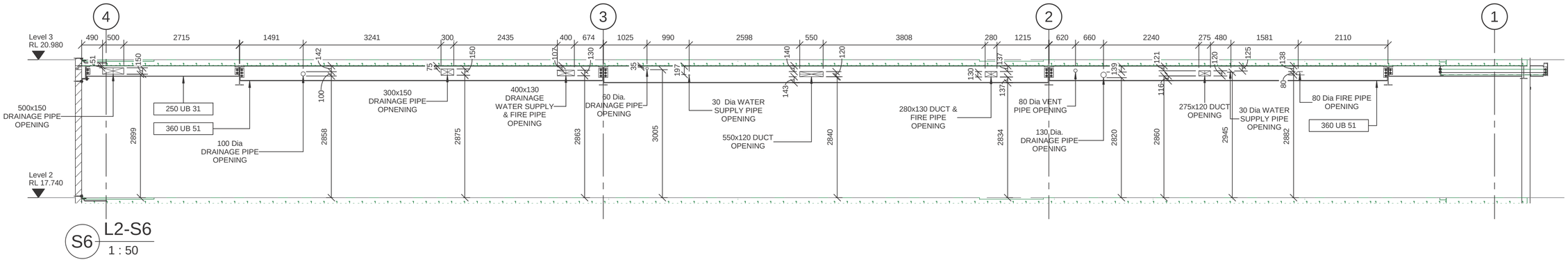
Scale	A1= 1 : 50
Date	05/11/18
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

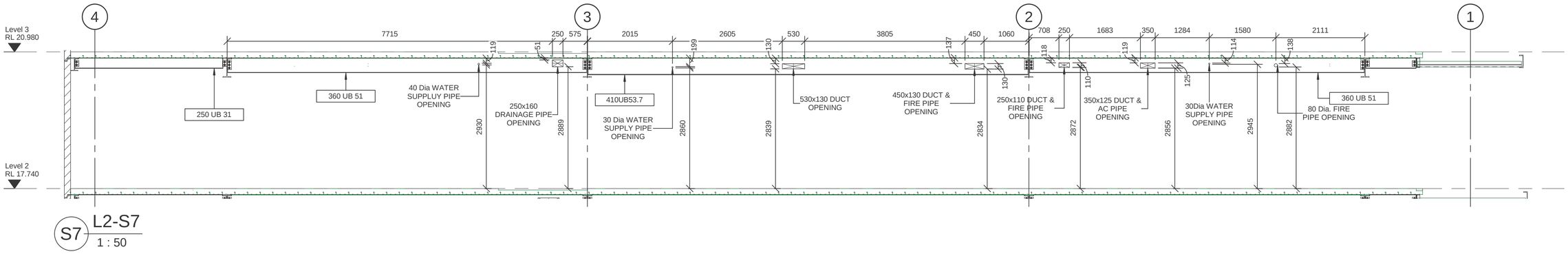
Job Title: LEVEL 2 SECTIONS LAYOUT 1

Drawing Number: S201

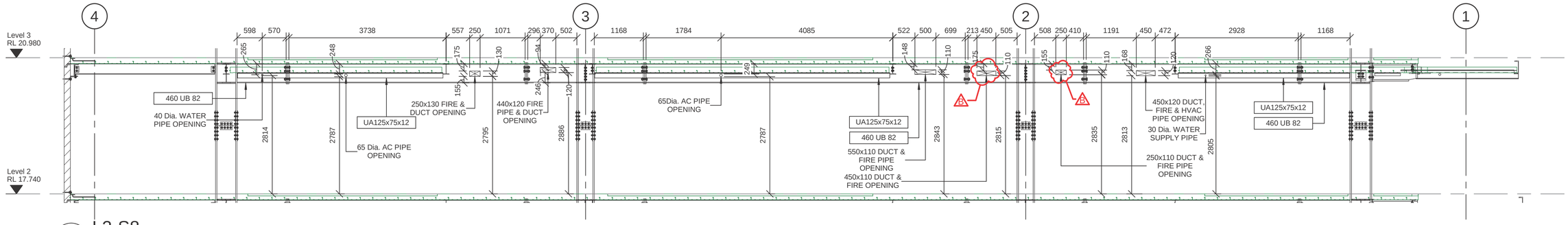
Issue: B



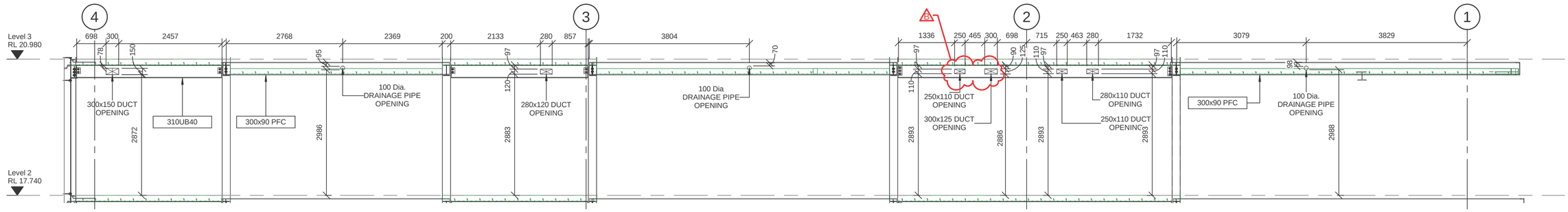
S6 L2-S6
1 : 50



S7 L2-S7
1 : 50



S8 L2-S8
1 : 50



S9 L2-S9
1 : 50

SILICON Engineering Consultants Ltd

REVISION	DATE	DESCRIPTION	INITIALS
B	02-11-18	LEVEL 2 PENETRATION UPDATED AS PER CONSULTANT COMMENTS	
A	29-10-18	LEVEL 2 PENETRATION DRAWING - ISSUED FOR REVIEW	

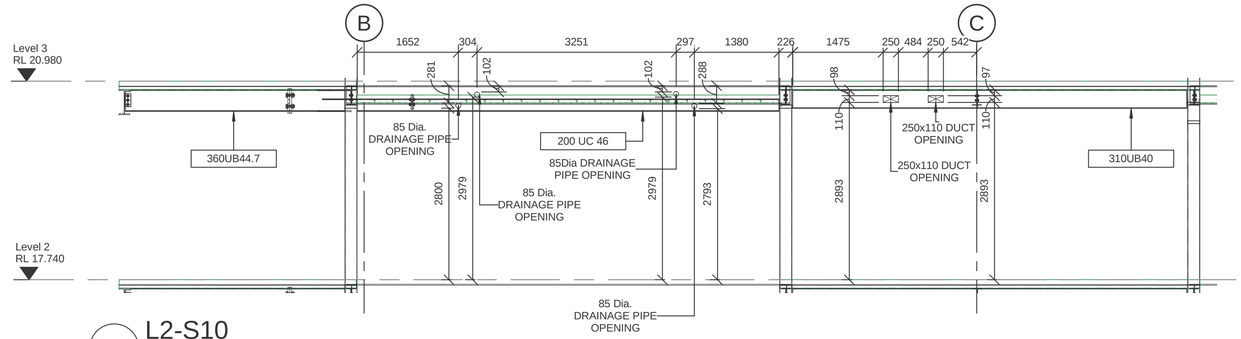
Scale	A1= 1 : 50
Date	29/10/18
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

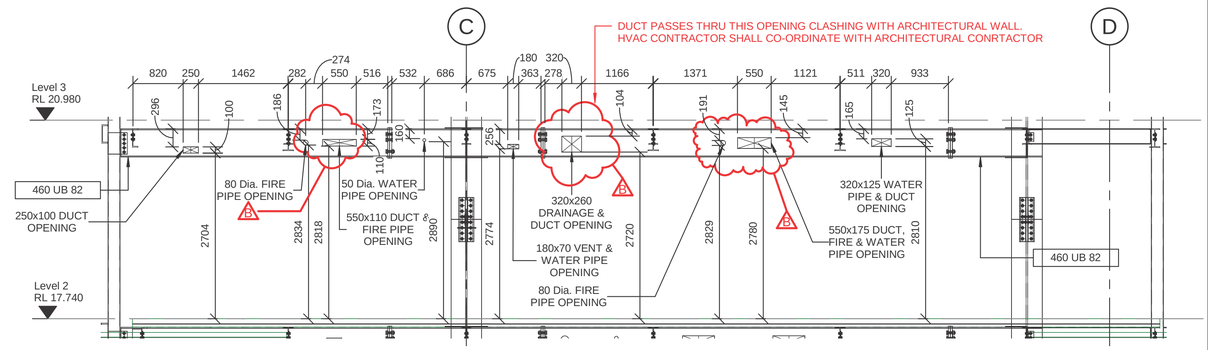
Job Title: LEVEL 2 SECTIONS LAYOUT 2

Drawing Number: S202

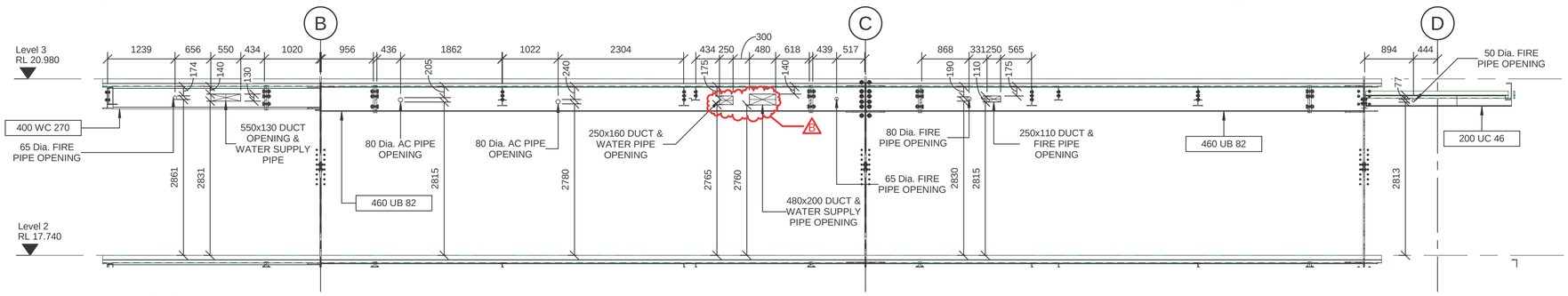
Issue: B



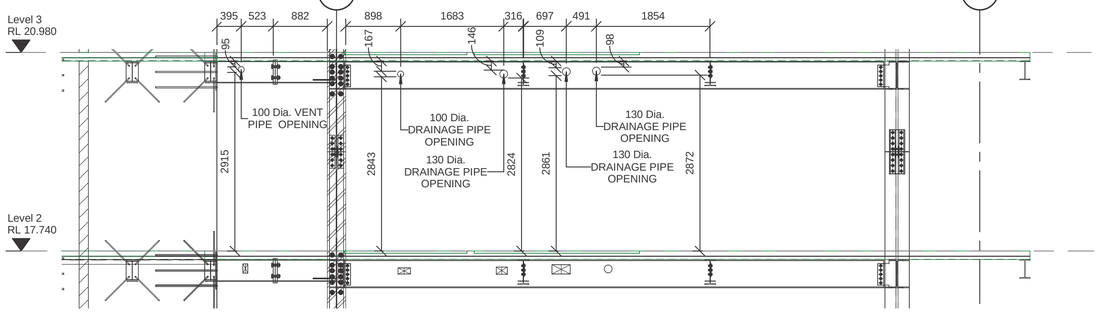
S10 L2-S10
1 : 50



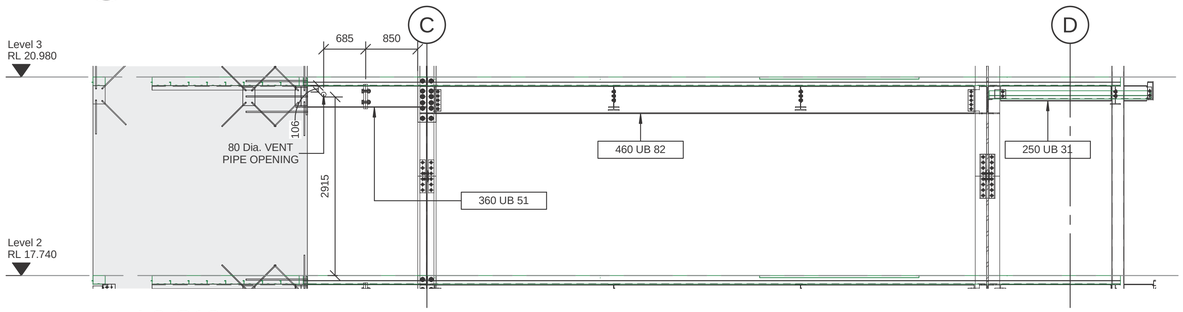
S14 L2-S14
1 : 50



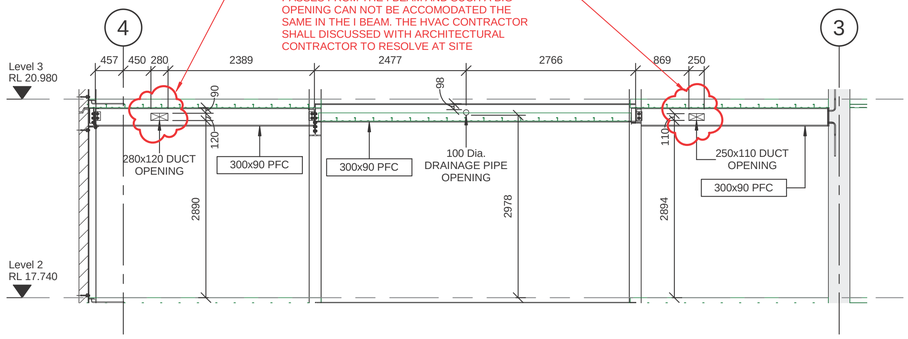
S11 L2-S11
1 : 50



S12 L2-S12
1 : 50



S13 L2-S13
1 : 50



S15 L2-S15
1 : 50

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Engineering Consultants Ltd

5	05-11-18	LEVEL 2 PENETRATION UPDATED AS PER CONSULTANT COMMENTS
4	29-10-18	LEVEL 2 PENETRATION DRAWING - ISSUED FOR REVIEW
ISSUE	DATE	REVISION DESCRIPTION

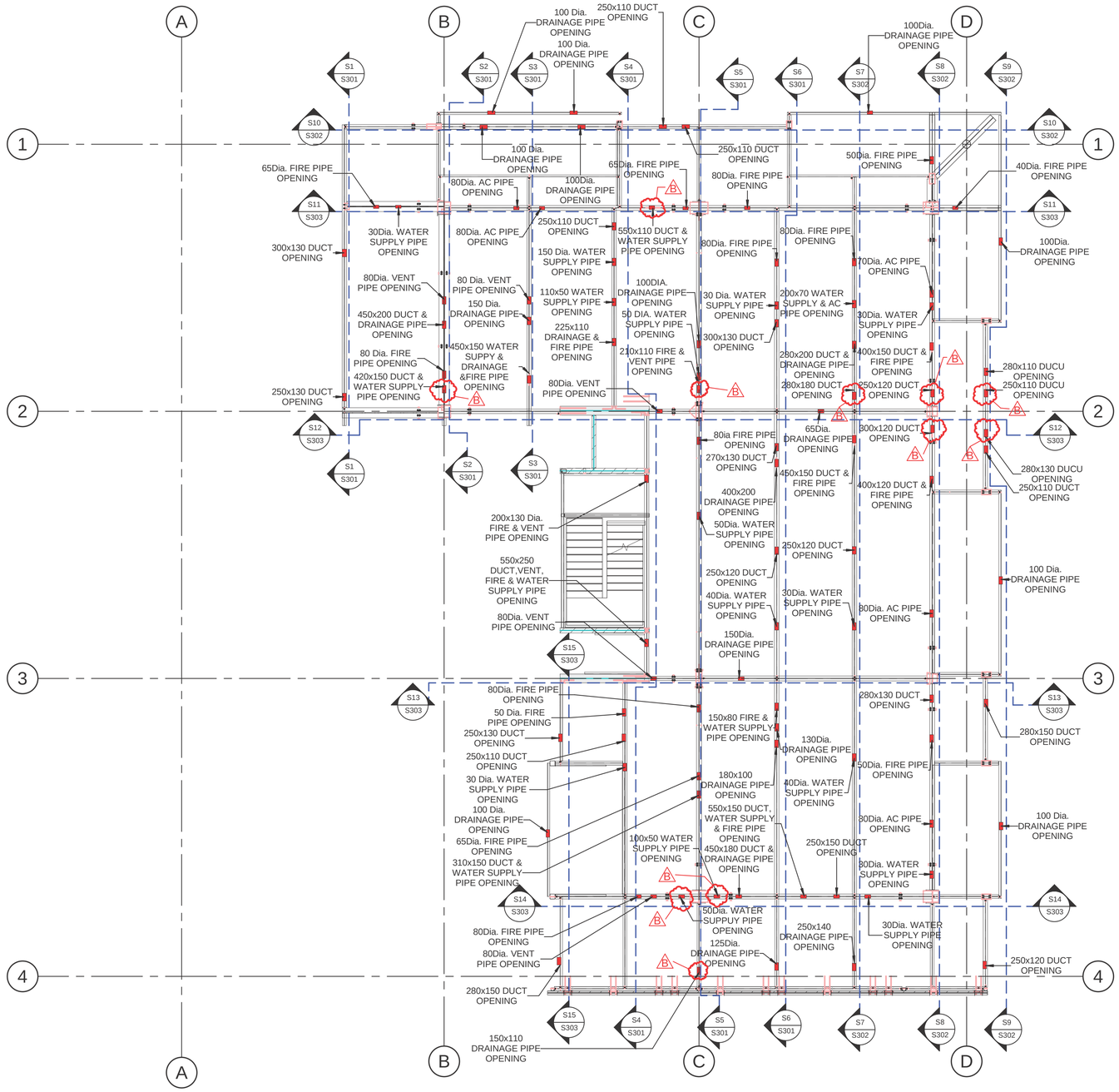
Scale	A1= 1 : 50
Date	05/11/18
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

Job Title: LEVEL 2 SECTIONS LAYOUT 3

Drawing Number: S203

Issue: B



1 LEVEL 3 PENETRATION LAYOUT

1 : 100

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	05-11-18	LEVEL 3 PENETRATION UPDATED AS PER CONSULTANT COMMENTS	
A	01-11-18	LEVEL 3 PENETRATION DRAWING - ISSUED FOR APPROVAL	

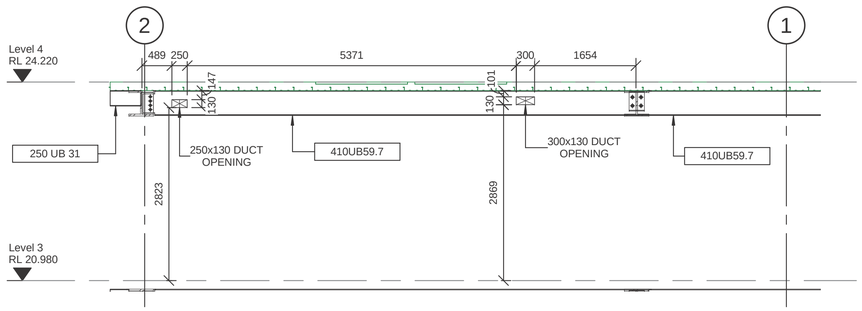
Scale	A1= 1 : 100
Date	05/11/18
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

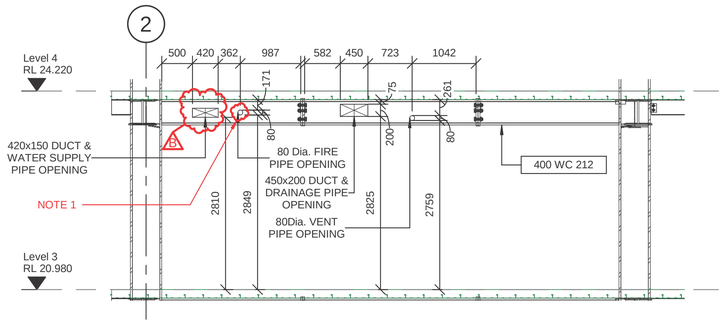
Job Title: LEVEL 3 PENETRATION LAYOUT

Drawing Number: S300

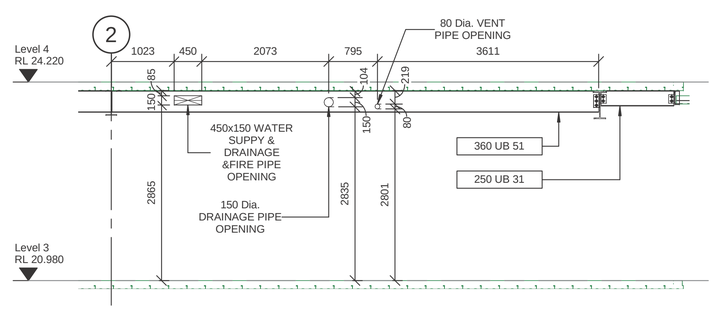
Issue: B



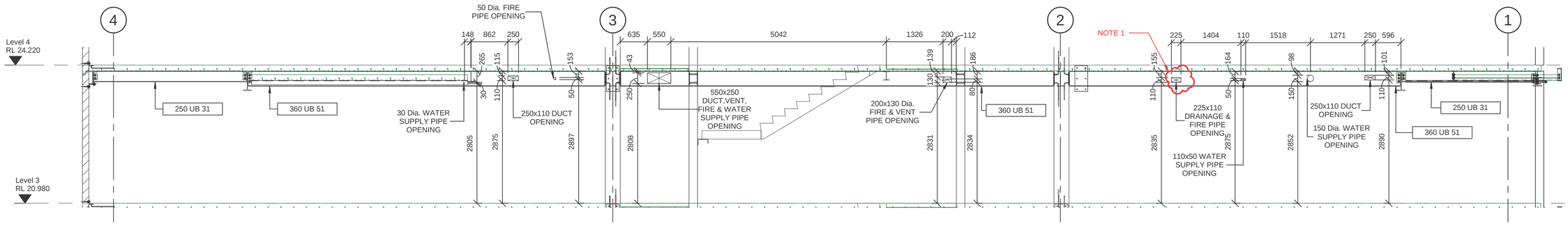
S1 L3-S1
1 : 50



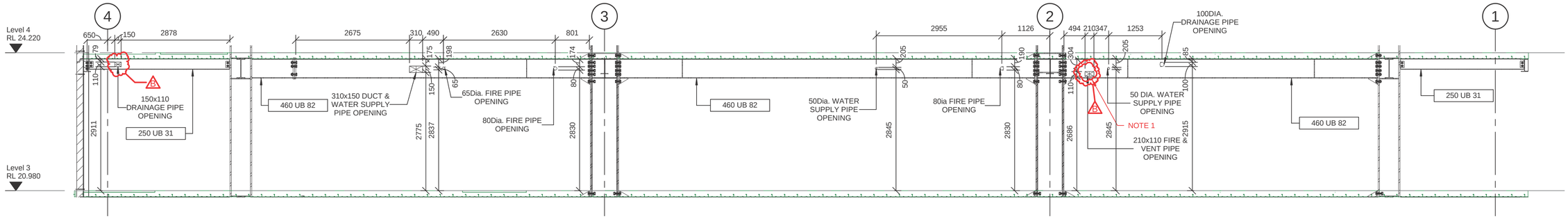
S2 L3-S2
1 : 50



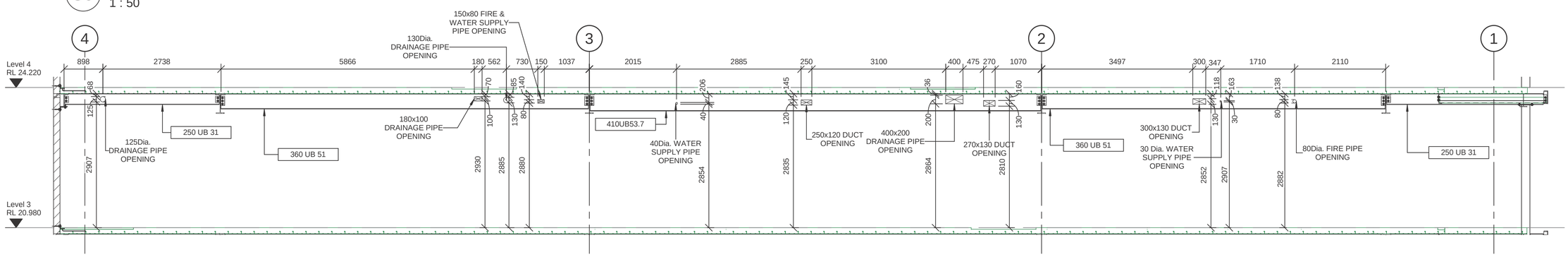
S3 L3-S3
1 : 50



S4 L3-S4
1 : 50



S5 L3-S5
1 : 50



S6 L3-S6
1 : 50

NOTES:-

1. FIRE PIPE ACCOMMODATED IN THIS OPENING.
2. ADDITIONAL STIFFENER PROVIDED AT THE BOTTOM OF THIS PENETRATION.

SILICON Engineering Consultants Ltd

REV	DATE	REVISION DESCRIPTION	INITIALS
B	05-11-18	LEVEL 3 PENETRATION UPDATED AS PER CONSULTANT COMMENTS	
A	01-11-18	LEVEL 3 PENETRATION DRAWING - ISSUED FOR APPROVAL	

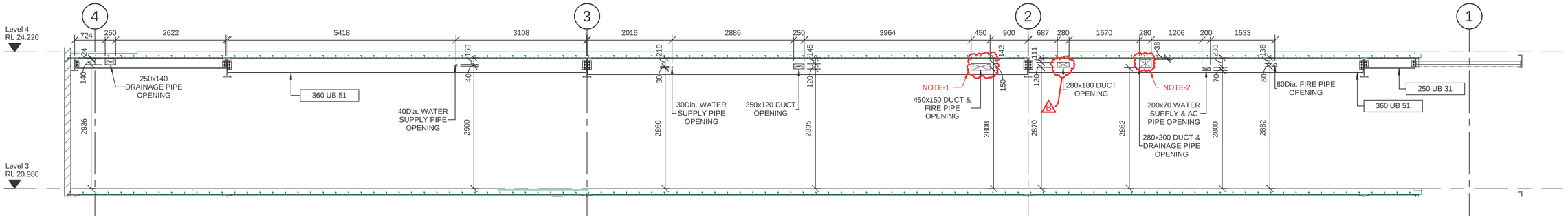
Scale	A1= 1 : 50
Date	05/11/18
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

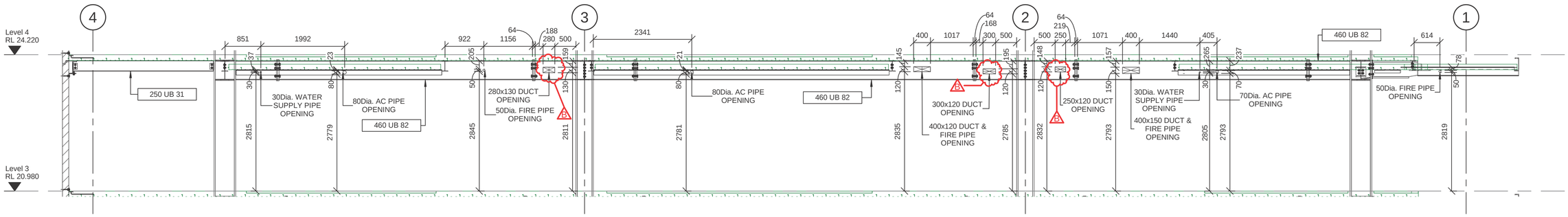
Job Title: LEVEL 3 SECTIONS LAYOUT 1

Drawing Number: S301

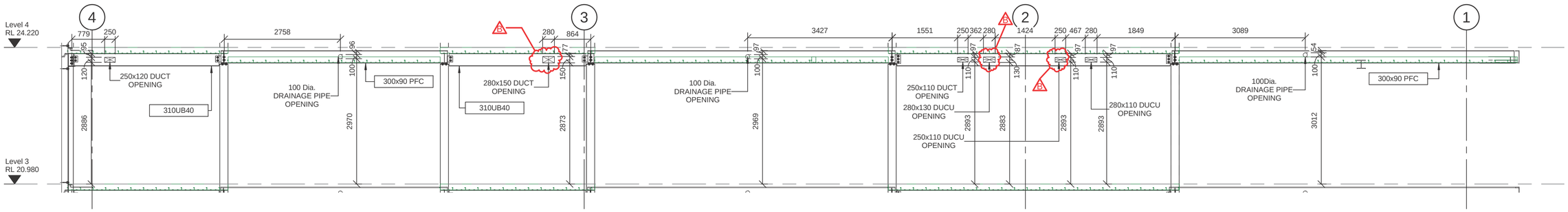
Issue: B



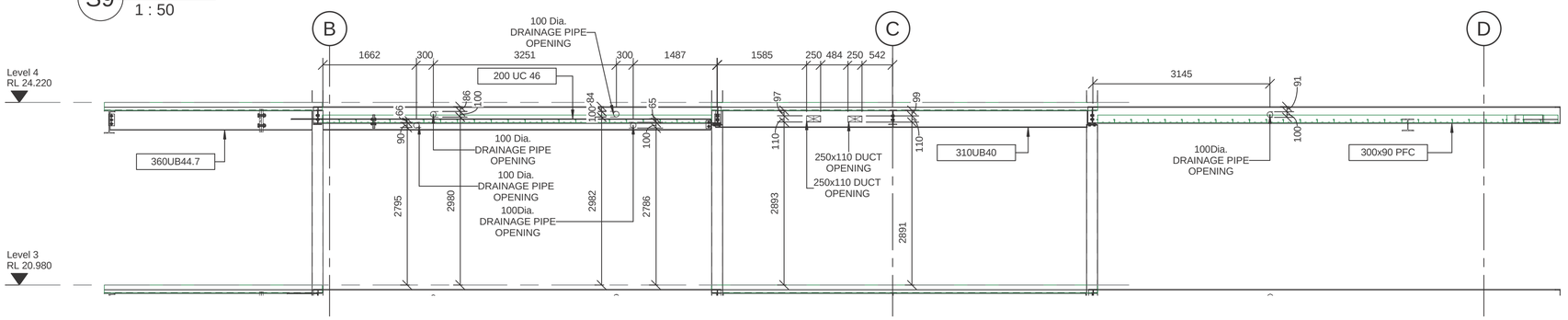
S7 L3-S7
1 : 50



S8 L3-S8
1 : 50



S9 L3-S9
1 : 50



S10 L3-S10
1 : 50

NOTES:-

1. FIRE PIPE ACCOMMODATED IN THIS OPENING.
2. ADDITIONAL STIFFENER PROVIDED AT THE BOTTOM OF THIS PENETRATION.

SILICON
Engineering Consultants Ltd

REVISION	DATE	DESCRIPTION	INITIALS
B	05-11-18	LEVEL 3 PENETRATION UPDATED AS PER CONSULTANT COMMENTS	
A	01-11-18	LEVEL 3 PENETRATION DRAWING - ISSUED FOR APPROVAL	

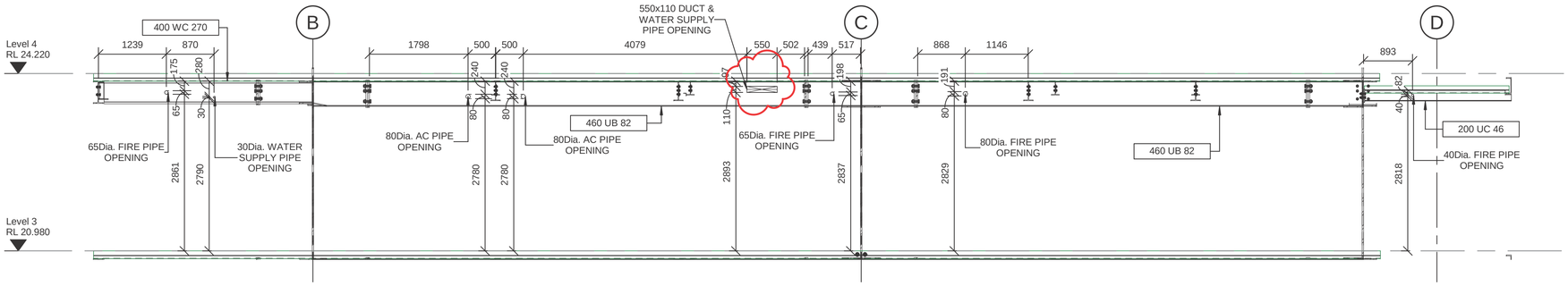
Scale	A1= 1 : 50
Date	05/11/18
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

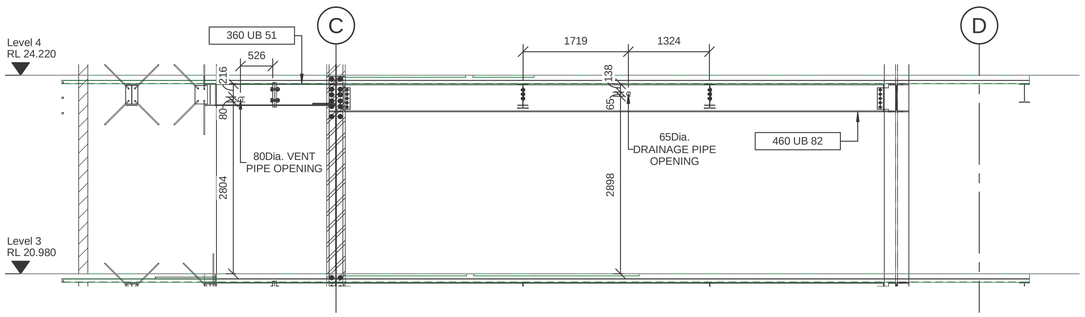
Job Title: LEVEL 3 SECTIONS LAYOUT 2

Drawing Number: S302

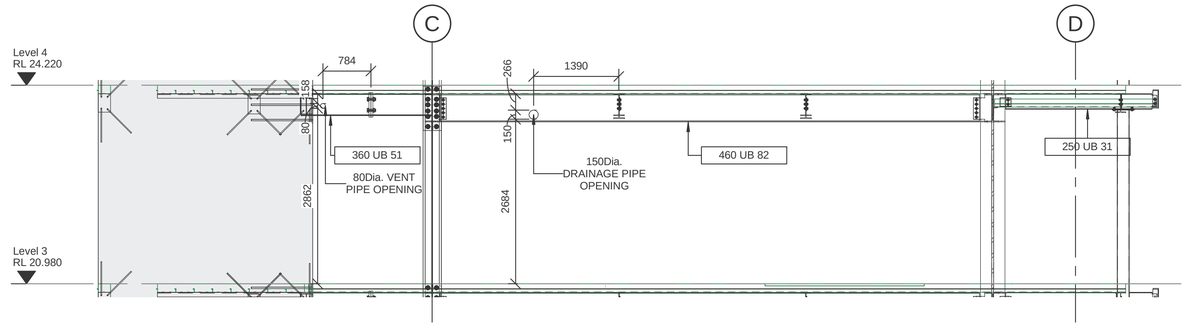
Issue: B



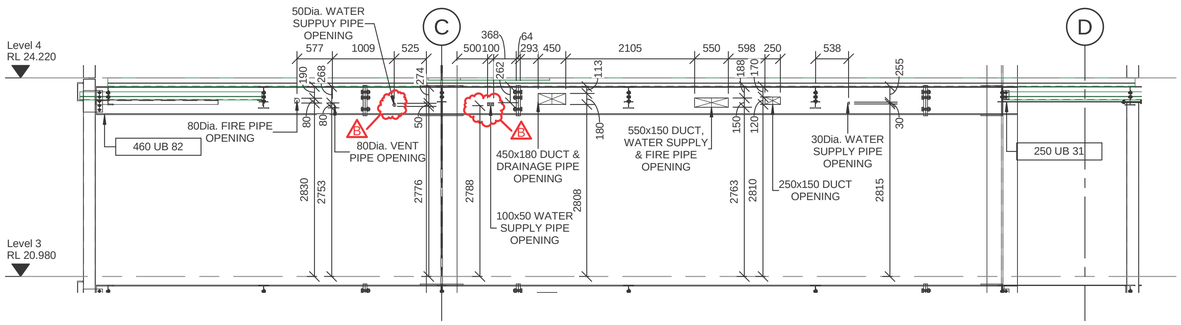
S11 L3-S11
1 : 50



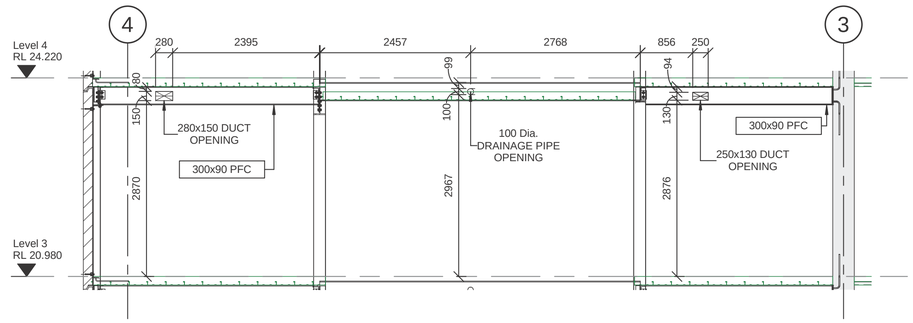
S12 L3-S12
1 : 50



S13 L3-S13
1 : 50



S14 L3-S14
1 : 50



S15 L3-S15
1 : 50

NOTES:-

1. FIRE PIPE ACCOMMODATED IN THIS OPENING.
2. ADDITIONAL STIFFENER PROVIDED AT THE BOTTOM OF THIS PENETRATION.

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	05-11-18	LEVEL 3 PENETRATION UPDATED AS PER CONSULTANT COMMENTS	
A	01-11-18	LEVEL 3 PENETRATION DRAWING - ISSUED FOR APPROVAL	

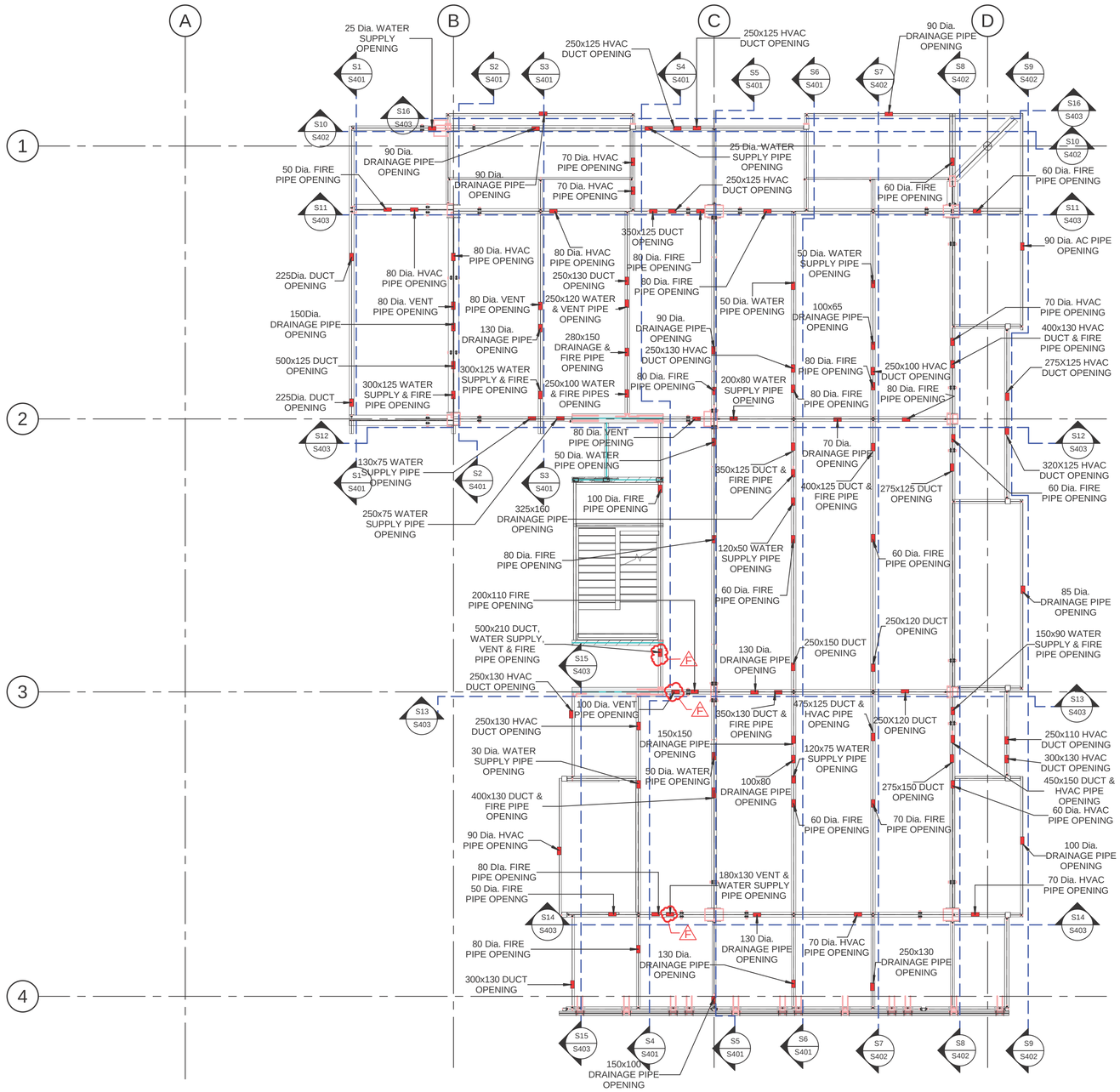
Scale	A1= 1 : 50
Date	05/11/18
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

Job Title: LEVEL 3 SECTIONS LAYOUT 3

Drawing Number: S303

Issue: B



1 LEVEL 4 PENETRATION LAYOUT

1 : 100

P	18-01-19	LEVEL 4 UPDATED THE PENETRATION DUE TO RESPONSE OF RFI 87
E	11-01-19	LEVEL 5 UPDATED THE PENETRATION DUE TO RESPONSE OF RFI 85
D	11-01-19	LEVEL 4 UPDATED THE PENETRATION DUE TO RESPONSE OF RFI 88
C	26-11-18	LEVEL 4 PENETRATION UPDATED - DUE TO CHANGE IN VENT ROUTING
B	19-11-18	LEVEL 4 PENETRATION DRAWING - ISSUED FOR APPROVAL
A	03-11-18	GRID B LEVEL 4 PENETRATION DRAWING - ISSUED FOR APPROVAL
ISSUE	DATE	REVISION DESCRIPTION

INITIALS

SILICON Engineering Consultants Ltd

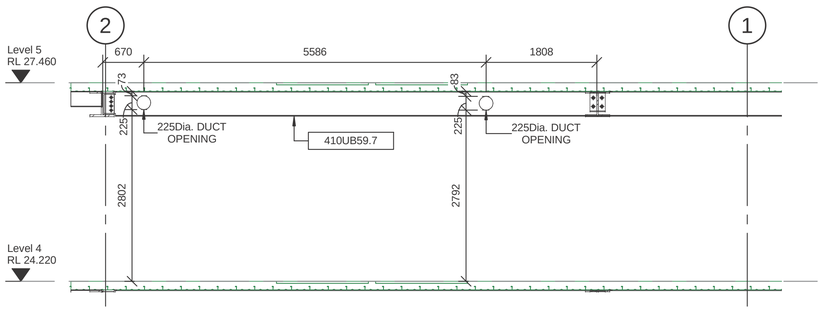
Scale	A1= 1 : 100
Date	26/11/2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

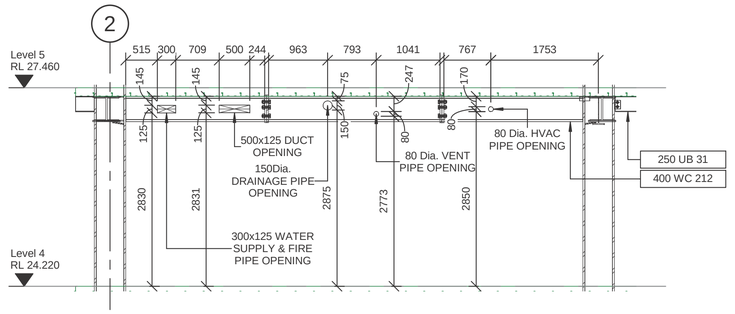
Job Title: LEVEL 4 PENETRATION LAYOUT

Drawing Number: S400

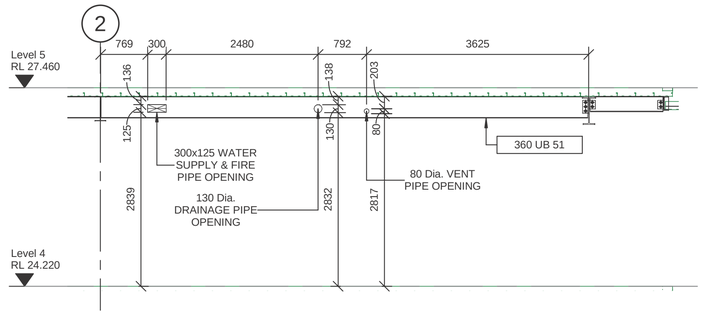
Issue: F



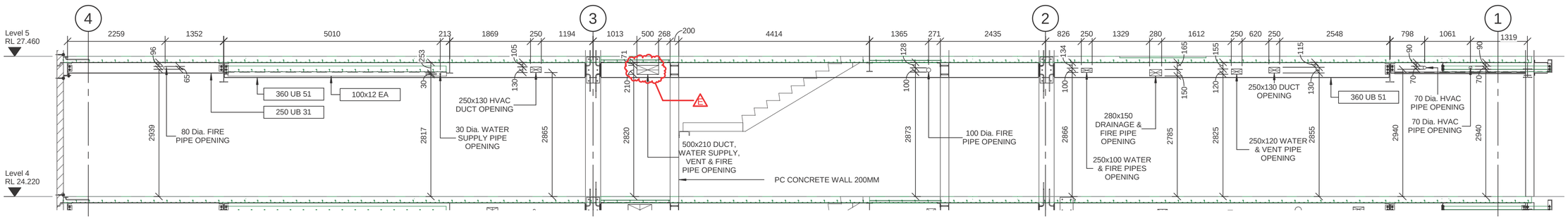
S1 L4-S1
1 : 50



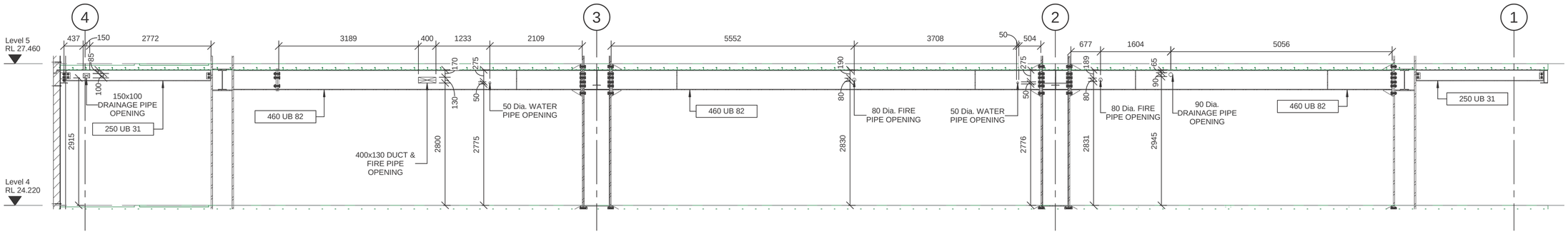
S2 L4-S2
1 : 50



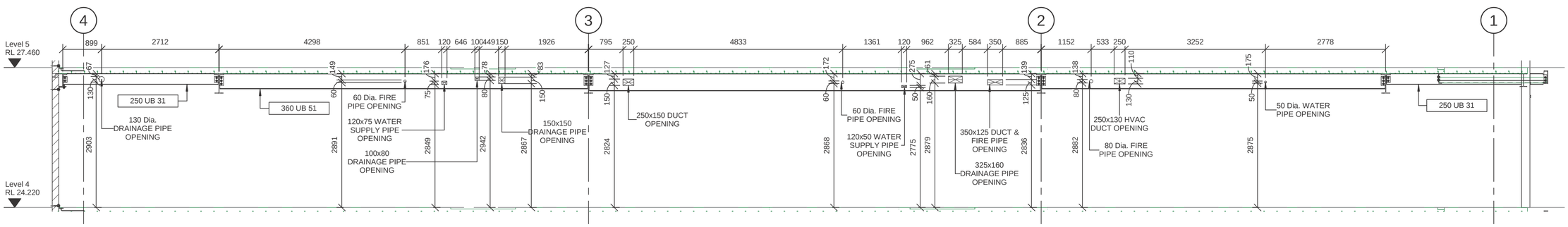
S3 L4-S3
1 : 50



S4 L4-S4
1 : 50



S5 L4-S5
1 : 50



S6 L4-S6
1 : 50

NOTES:-

1. FIRE PIPE ACCOMODATTED IN THIS OPENING.

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
E	18-01-19	LEVEL 4 UPDATED THE PENETRATION DUE TO RESPONSE OF RFI 92	
D	11-01-19	LEVEL 5 UPDATED THE PENETRATION DUE TO RESPONSE OF RFI 85	
C	11-01-19	LEVEL 4 UPDATED THE PENETRATION DUE TO RESPONSE OF RFI 85	
B	06-11-18	LEVEL 4 - PENETRATION UPDATED - DUE TO CHANGE IN VENT ROUTING	
A	19-11-18	LEVEL 4 PENETRATION DRAWING - ISSUED FOR APPROVAL	

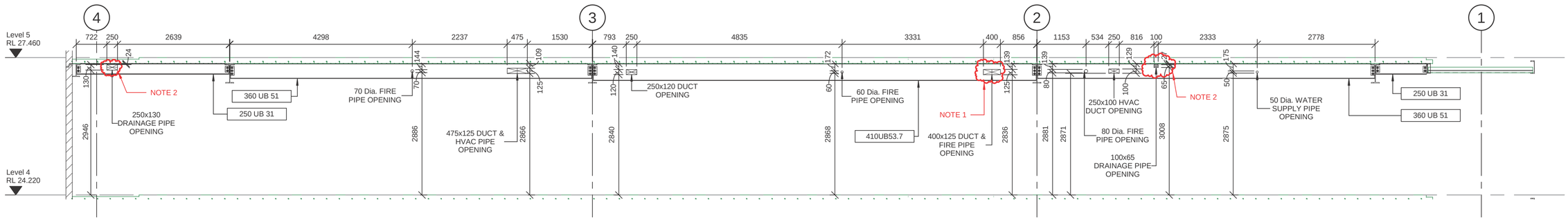
Scale	A1= 1 : 50
Date	26/11/2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

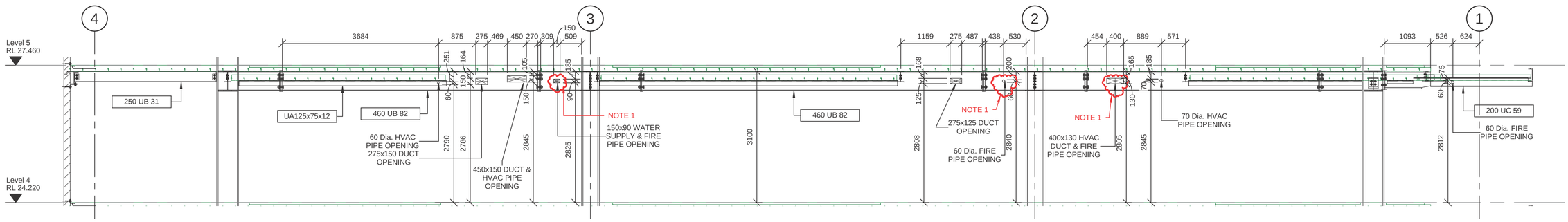
Job Title: LEVEL 4 SECTIONS LAYOUT 1

Drawing Number: S401

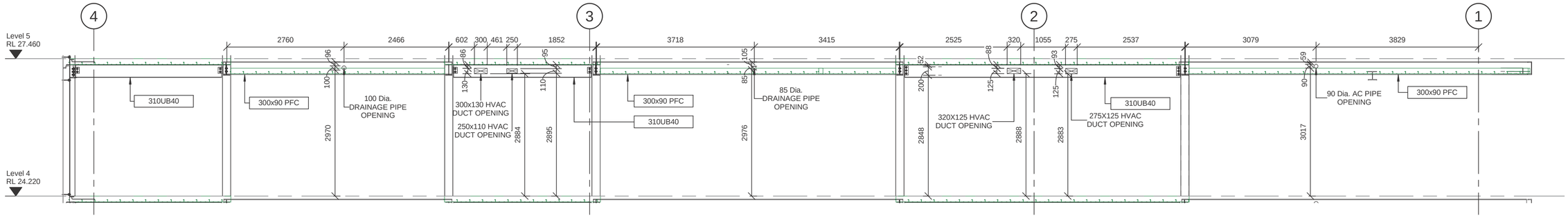
Issue: E



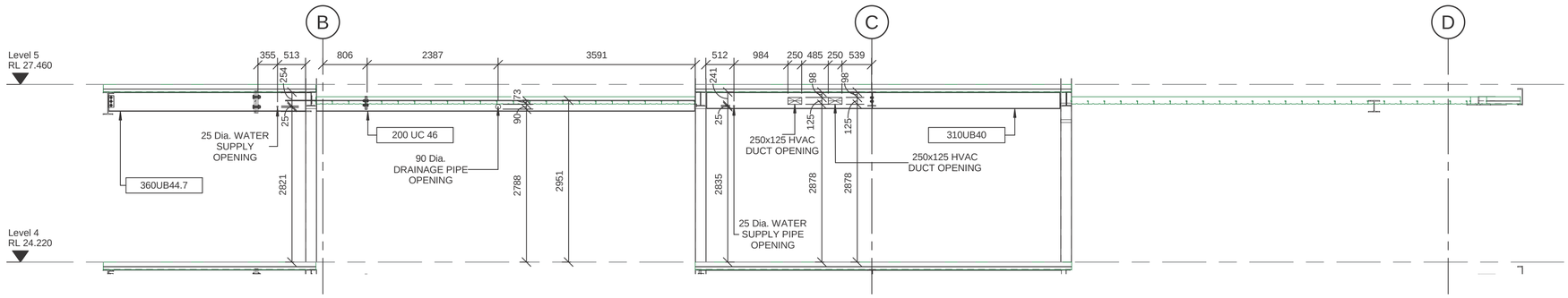
S7 L4-S7
1 : 50



S8 L4-S8
1 : 50



S9 L4-S9
1 : 50



S10 L4-S10
1 : 50

NOTES:-

1. FIRE PIPE ACCOMMODATED IN THIS OPENING.
2. ADDITIONAL STIFFENER PROVIDED AT THE BOTTOM OF THIS PENETRATION.

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	19-11-18	LEVEL 4 PENETRATION DRAWING - ISSUED FOR APPROVAL	

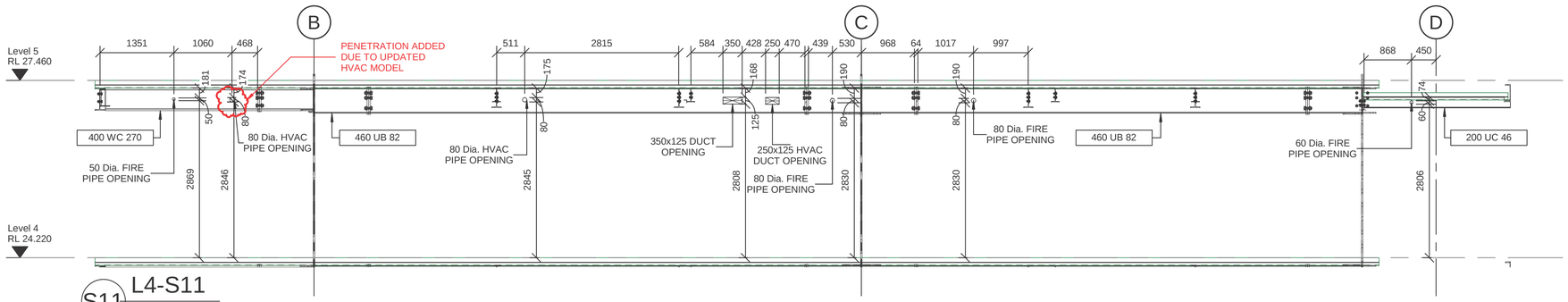
Scale	A1= 1 : 50
Date	19/11/18
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

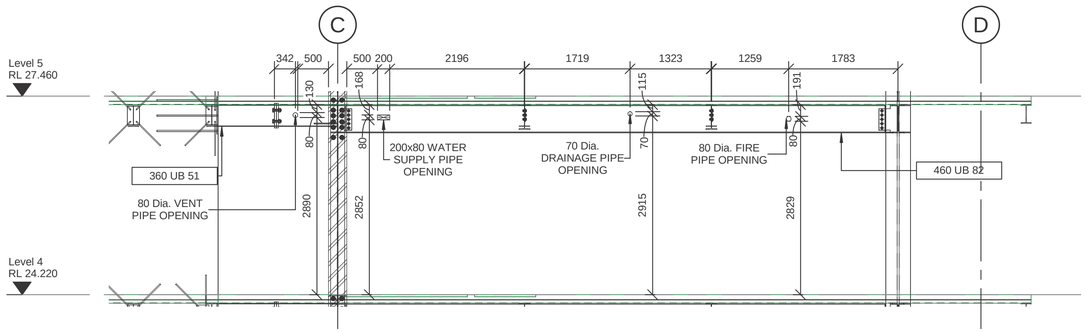
Job Title: LEVEL 4 SECTIONS LAYOUT 2

Drawing Number: S402

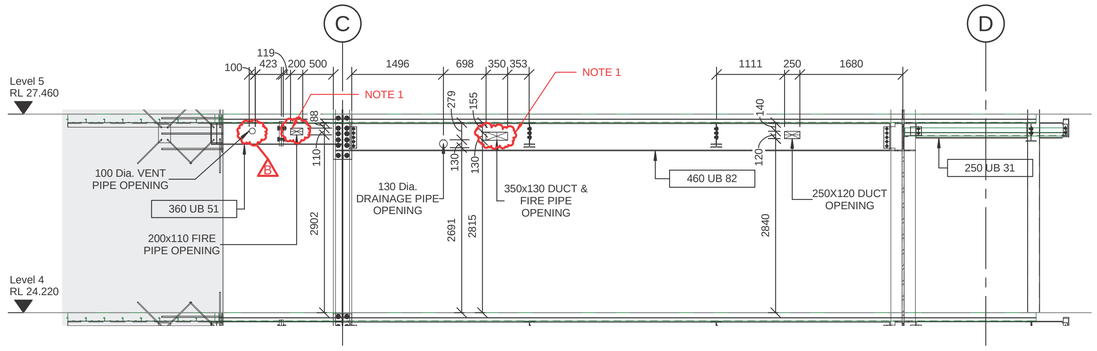
Issue: A



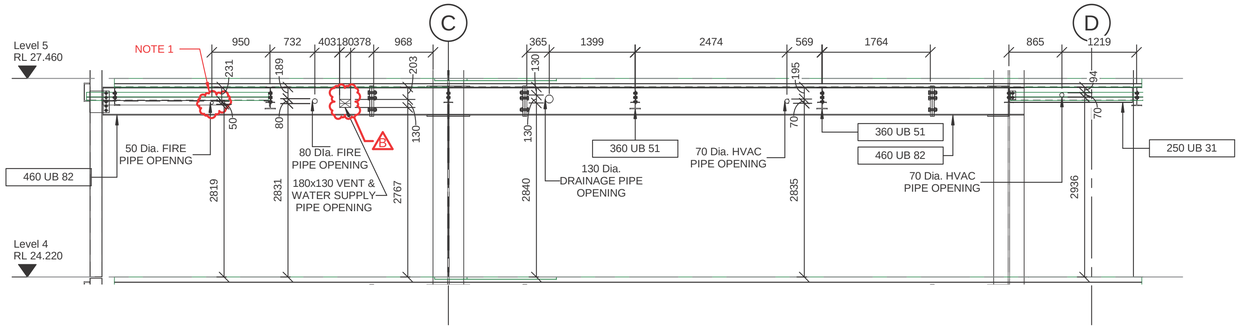
S11 L4-S11
1 : 50



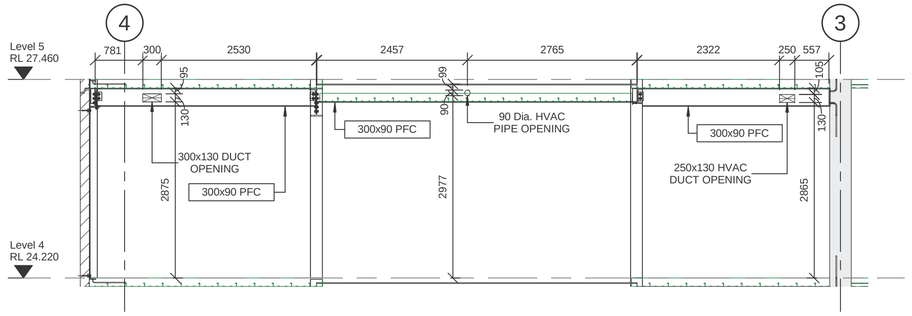
S12 L4-S12
1 : 50



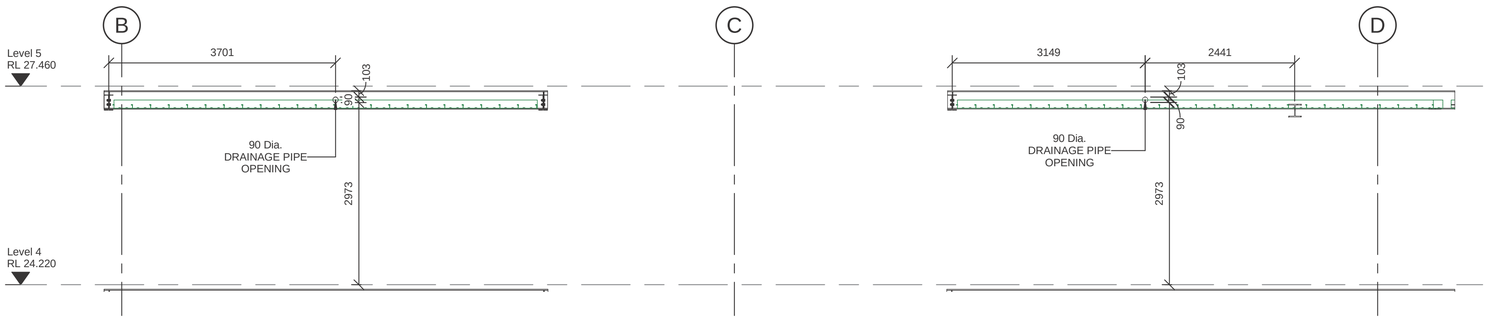
S13 L4-S13
1 : 50



S14 L4-S14
1 : 50



S15 L4-S15
1 : 50



S16 L4-S16
1 : 50

NOTES:-

1. FIRE PIPE ACCOMMODATED IN THIS OPENING.
2. ADDITIONAL STIFFENER PROVIDED AT THE BOTTOM OF THIS PENETRATION.

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	18-01-19	LEVEL 4 UPDATED THE PENETRATION DUE TO RESPONSE OF RFI 82	
A	19-11-18	LEVEL 4 PENETRATION DRAWING - ISSUED FOR APPROVAL	

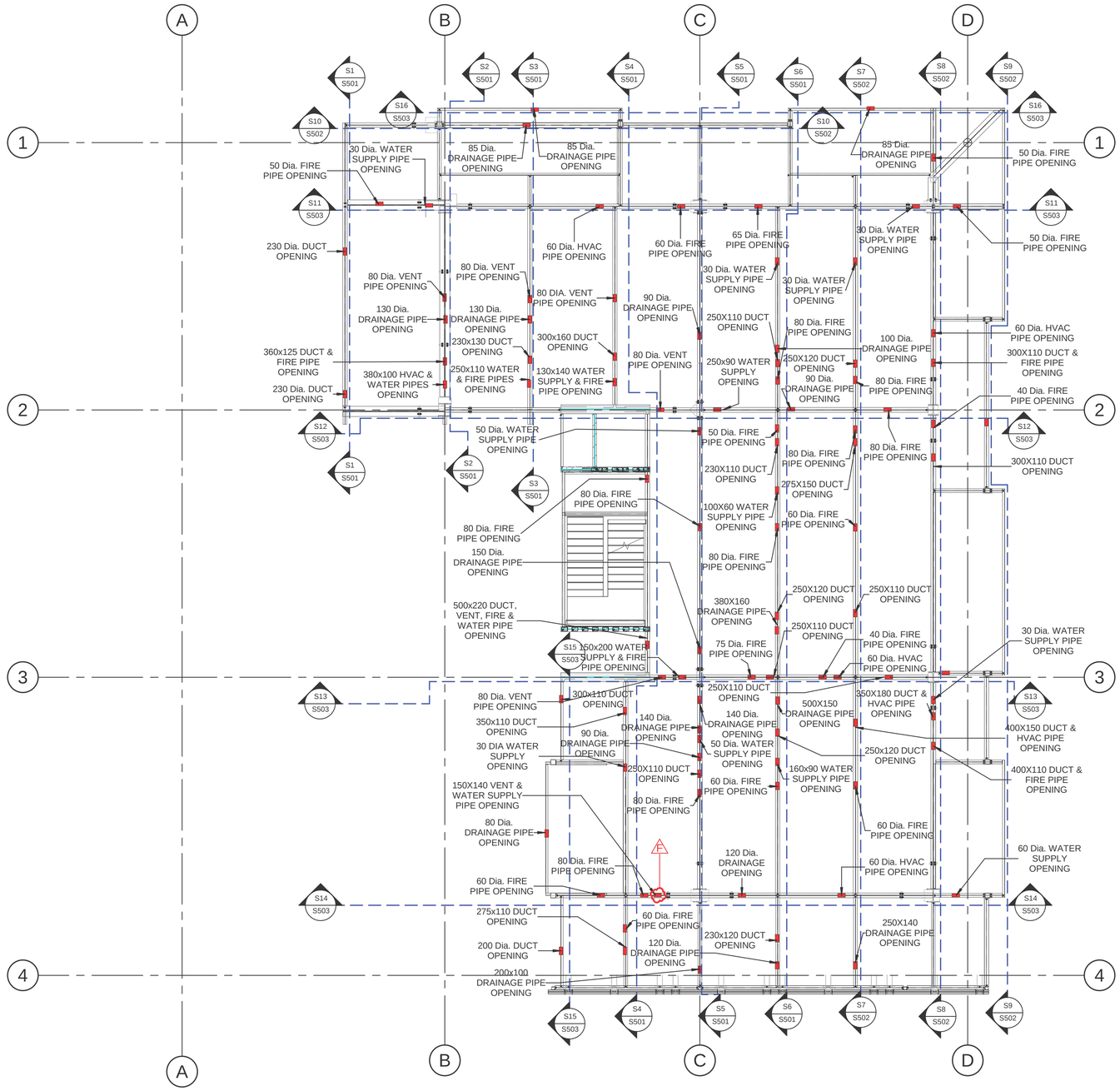
Scale	A1= 1 : 50
Date	19/11/18
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

Job Title: LEVEL 4 SECTIONS LAYOUT 3

Drawing Number: S403

Issue: B



1 LEVEL 5 PENETRATION LAYOUT

1 : 100

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
F	18-01-19	LEVEL 5 UPDATED THE PENETRATION DUE TO RESPONSE OF RFI 82	
E	11-01-19	LEVEL 5 UPDATED THE PENETRATION DUE TO RESPONSE OF RFI 85	
D	11-01-19	LEVEL 5 UPDATED THE PENETRATION DUE TO RESPONSE OF RFI 86	
C	11-01-19	LEVEL 5 UPDATED THE PENETRATION DUE TO RESPONSE OF RFI 87	
B	08-12-18	REVISED LEVEL 5 PENETRATION	
A	03-11-18	GIRD-B LEVEL 5 PENETRATION DRAWING - ISSUED FOR APPROVAL	

SILICON Engineering Consultants Ltd

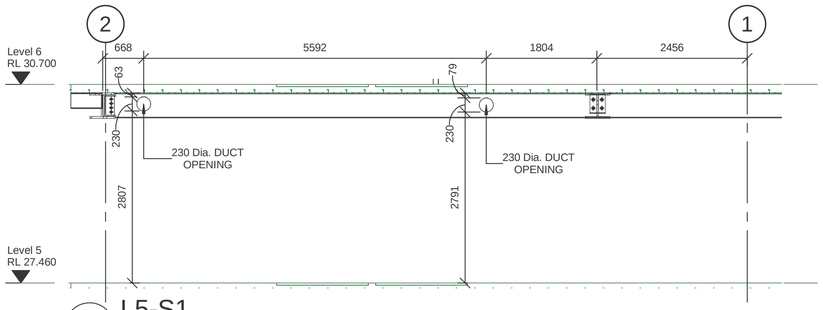
Scale	A1= 1 : 100
Date	20/11/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

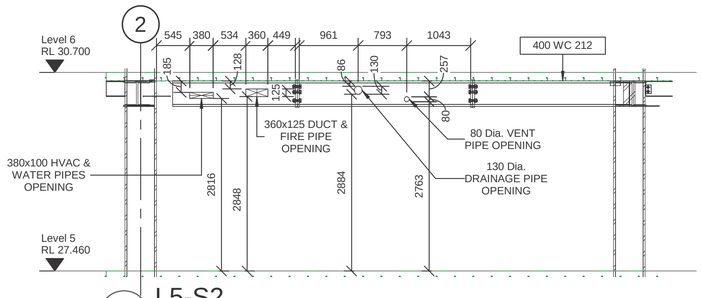
Job Title: LEVEL 5 PENETRATION LAYOUT

Drawing Number: S500

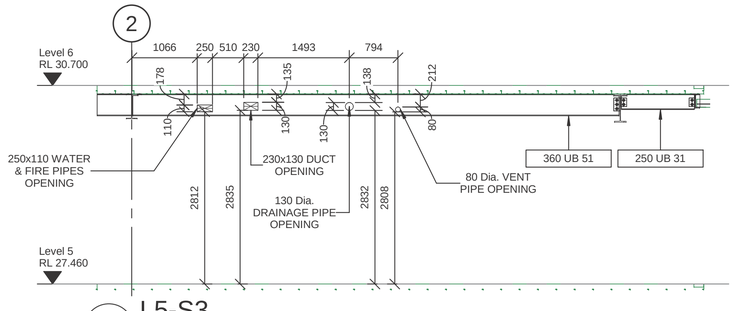
Issue: F



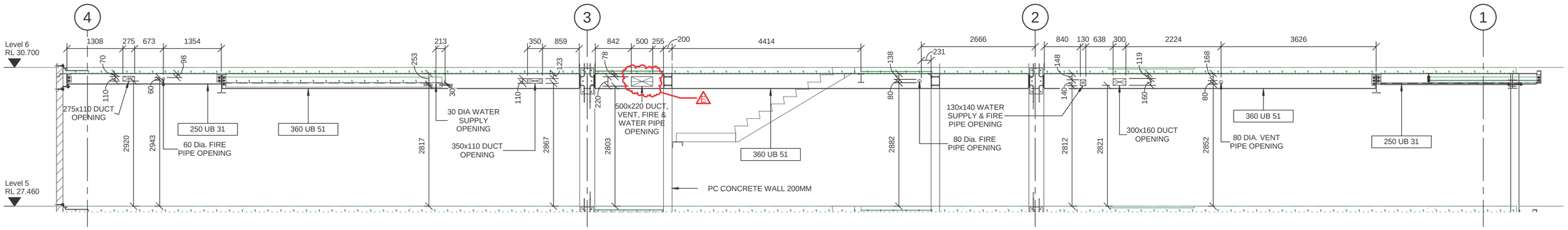
S1 L5-S1
1 : 50



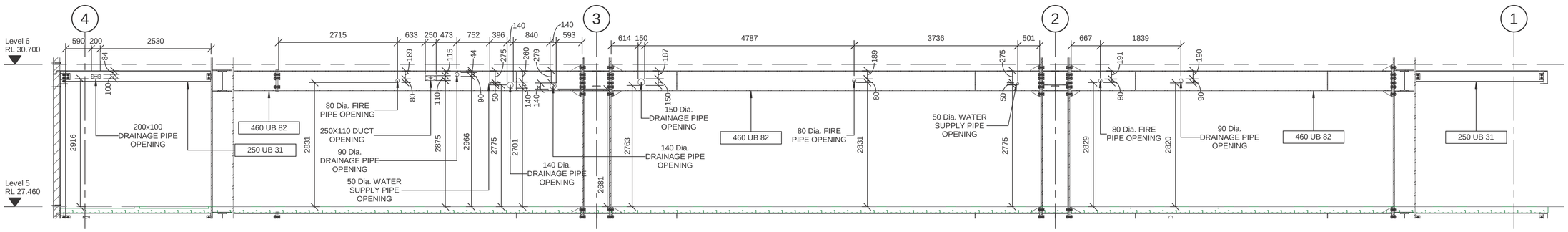
S2 L5-S2
1 : 50



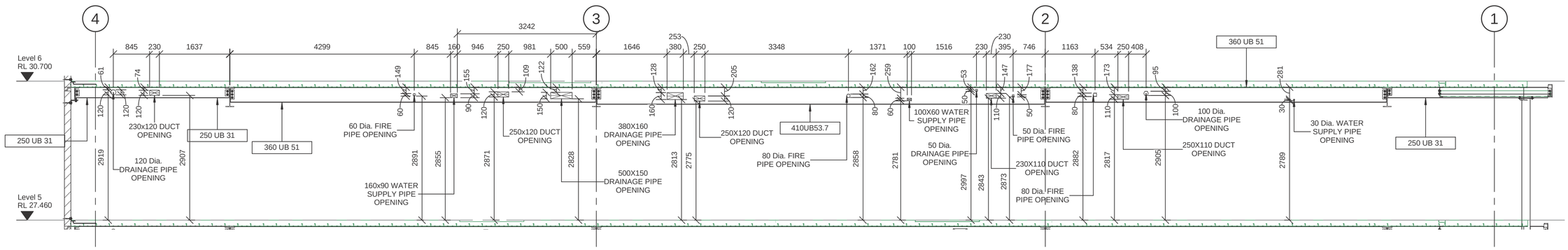
S3 L5-S3
1 : 50



S4 L5-S4
1 : 50



S5 L5-S5
1 : 50



S6 L5-S6
1 : 50

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
E	11-01-19	LEVEL 5 UPDATED THE PENETRATION DUE TO RESPONSE OF RFI 85	
D	11-01-19	LEVEL 5 UPDATED THE PENETRATION DUE TO RESPONSE OF RFI 89	
C	11-01-19	LEVEL 5 UPDATED THE PENETRATION DUE TO RESPONSE OF RFI 87	
B	09-12-18	REVISED LEVEL 5 PENETRATION	
A	20-11-18	LEVEL 5 PENETRATION DRAWING - ISSUED FOR APPROVAL	

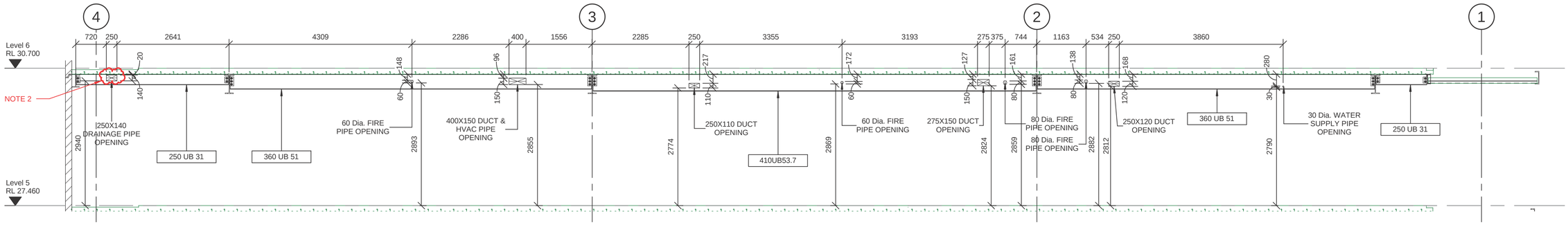
Scale	A1= 1 : 50
Date	20/11/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

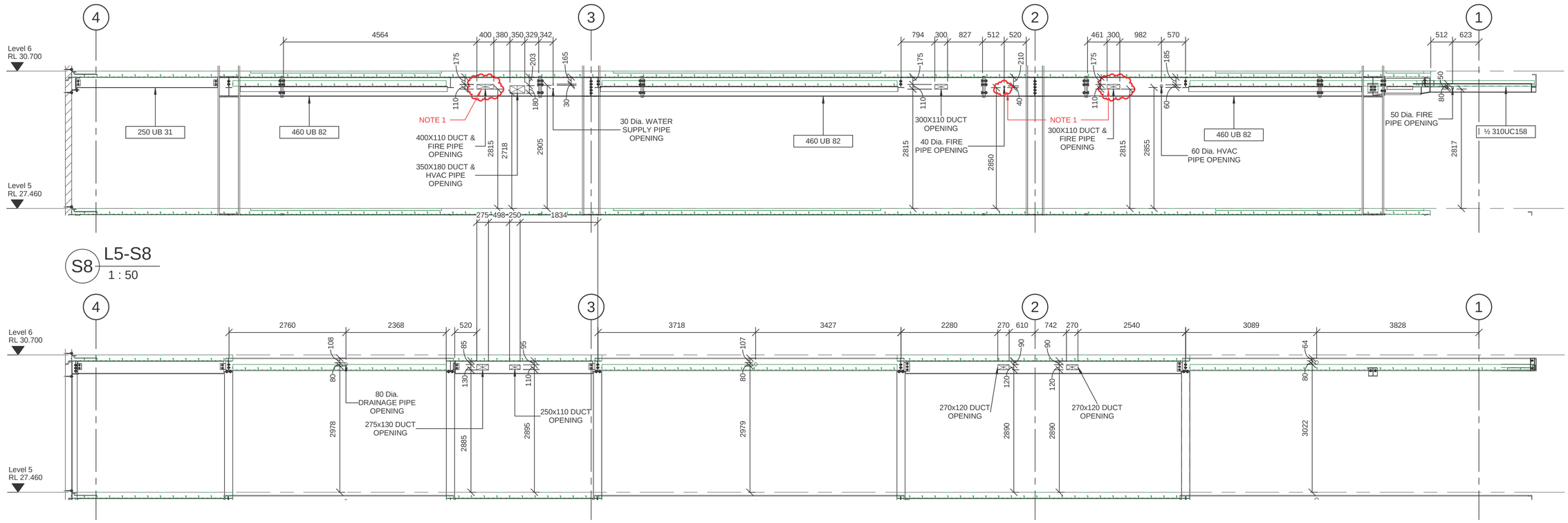
Job Title: LEVEL 5 SECTIONS LAYOUT 1

Drawing Number: S501

Issue: E

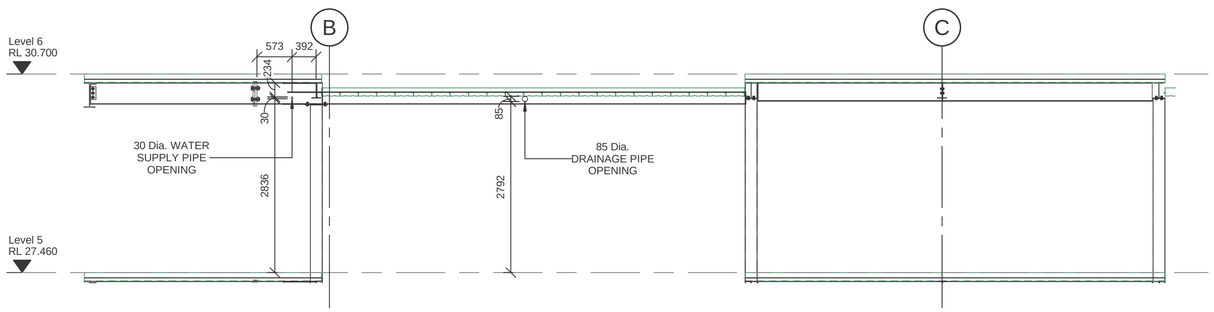


S7 L5-S7
1 : 50



S8 L5-S8
1 : 50

S9 L5-S9
1 : 50



S10 L5-S10
1 : 50

NOTES:-

1. FIRE PIPE ACCOMMODATED IN THIS OPENING.
2. ADDITIONAL STIFFENER PROVIDED AT THE BOTTOM OF THIS PENETRATION.

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	20-11-18	LEVEL 5 PENETRATION DRAWING - ISSUED FOR APPROVAL	

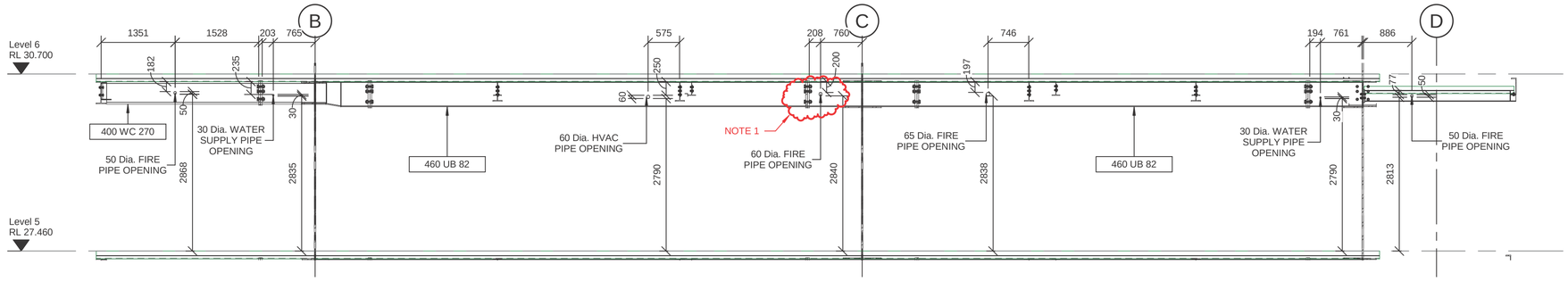
Scale	A1= 1 : 50
Date	20/11/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

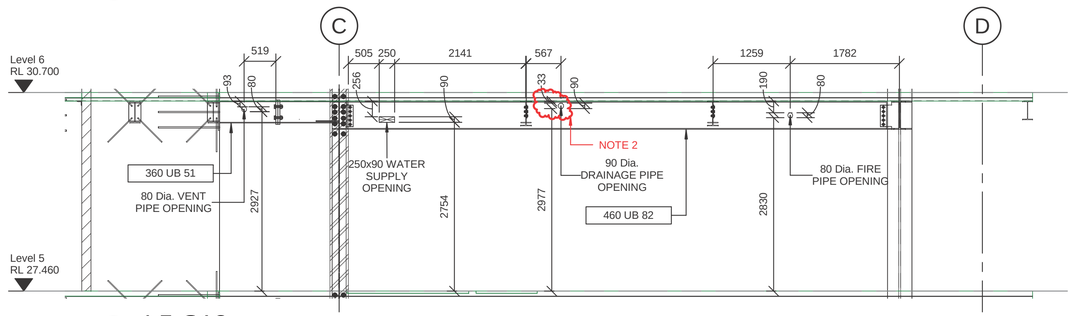
Job Title: LEVEL 5 SECTIONS LAYOUT 2

Drawing Number: S502

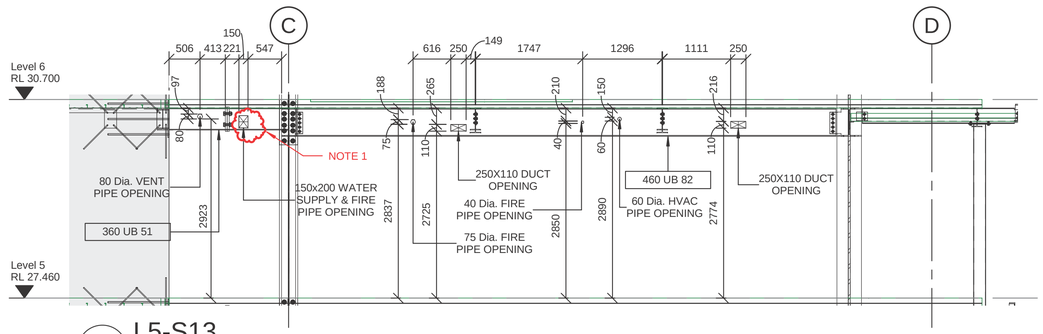
Issue: A



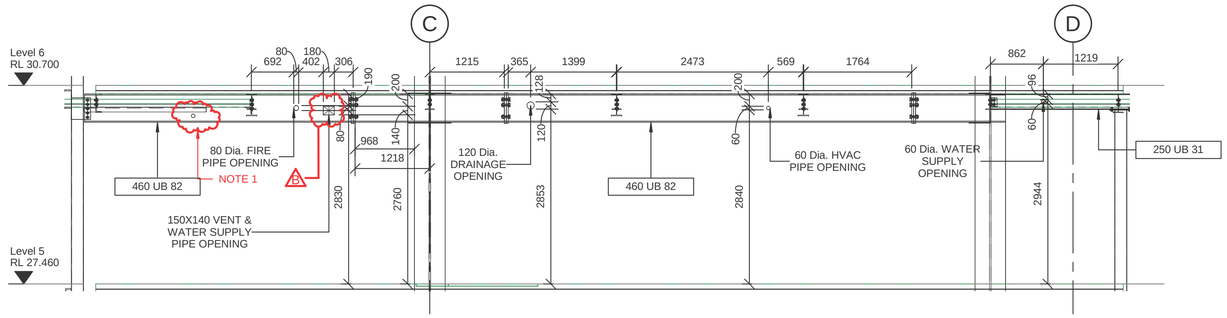
S11 L5-S11
1 : 50



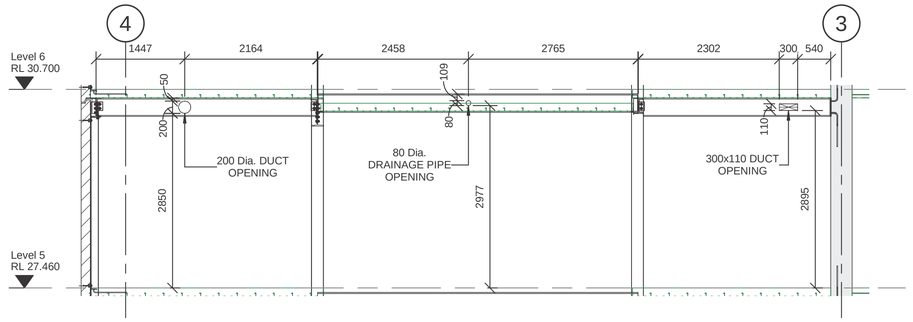
S12 L5-S12
1 : 50



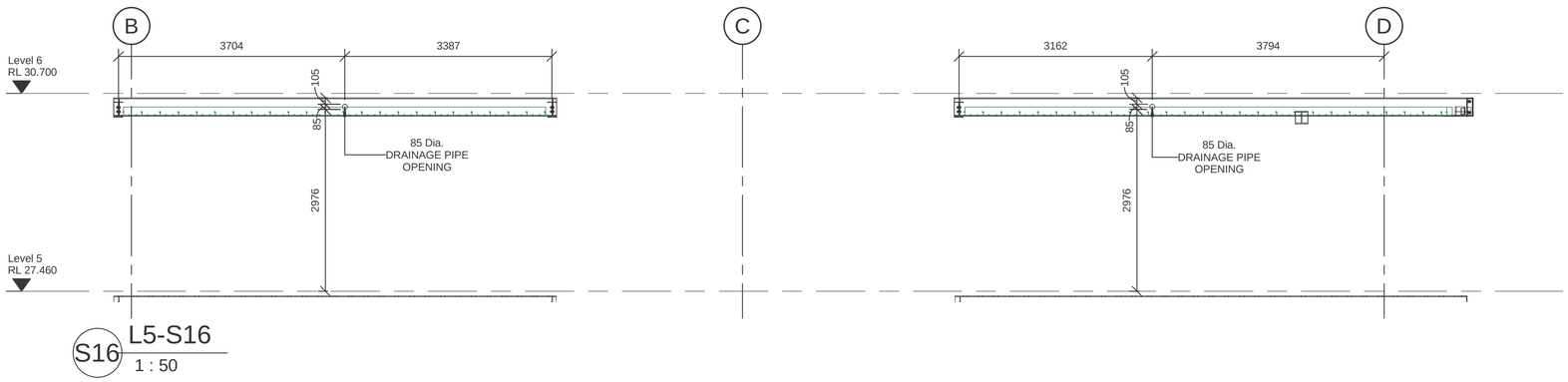
S13 L5-S13
1 : 50



S14 L5-S14
1 : 50



S15 L5-S15
1 : 50



S16 L5-S16
1 : 50

NOTES:-

1. FIRE PIPE ACCOMMODATED IN THIS OPENING.
2. ADDITIONAL STIFFENER PROVIDED AT THE BOTTOM OF THIS PENETRATION.

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	08/01/19	LEVEL 5 UPDATED THE PENETRATION DUE TO RESPONSE OF RFI 82	
A	20-11-18	LEVEL 5 PENETRATION DRAWING - ISSUED FOR APPROVAL	

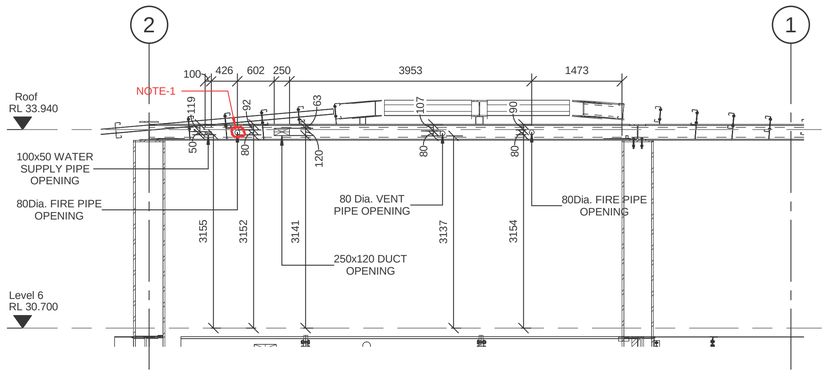
Scale	A1= 1 : 50
Date	20/11/2018
Drawn	RS
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

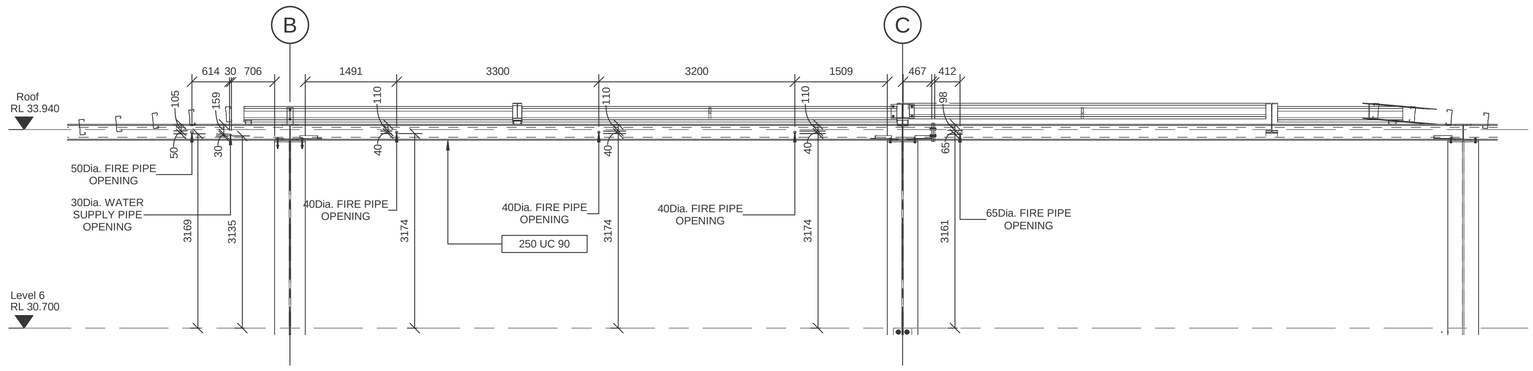
Job Title: LEVEL 5 SECTIONS LAYOUT 3

Drawing Number: S503

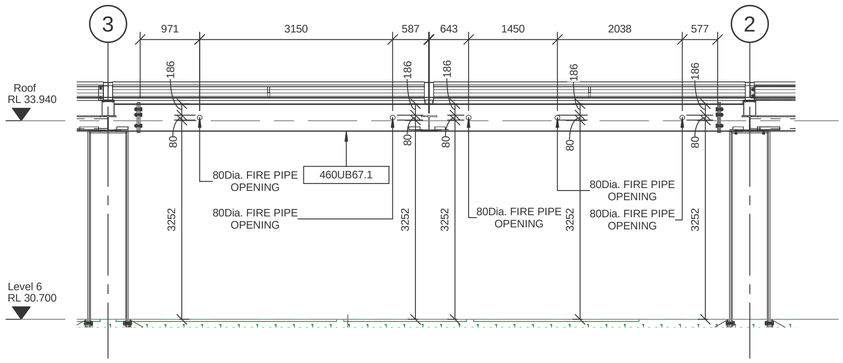
Issue: B



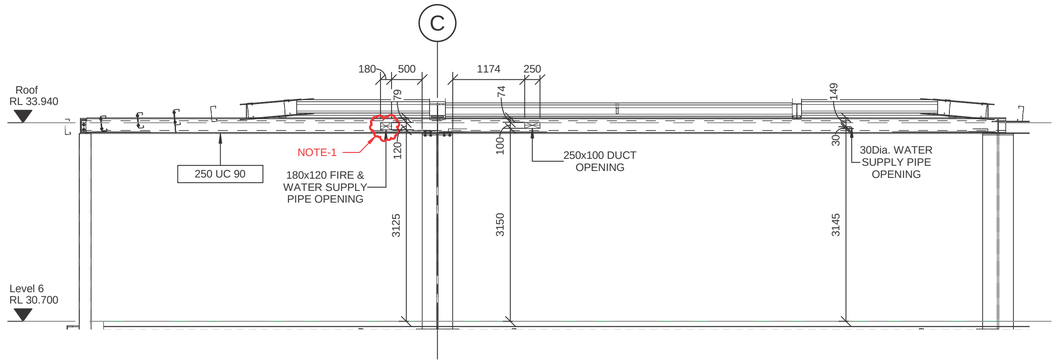
S1 L6-S1
1 : 50



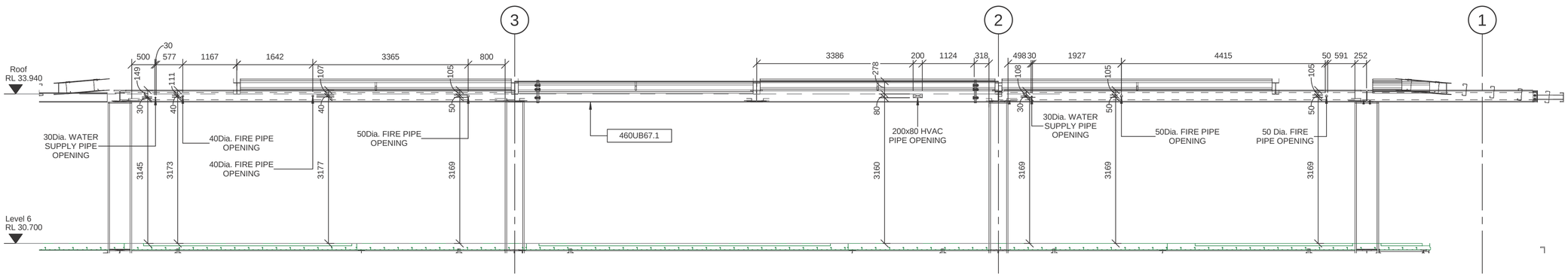
S4 L6-S4
1 : 50



S2 L6-S2
1 : 50



S5 L6-S5
1 : 50



S3 L6-S3
1 : 50

NOTES:-

1. FIRE PIPE ACCOMODATTED IN THIS OPENING.

SILICON
Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
A	22-11-18	LEVEL 6 PENETRATION DRAWING - ISSUED FOR APPROVAL	

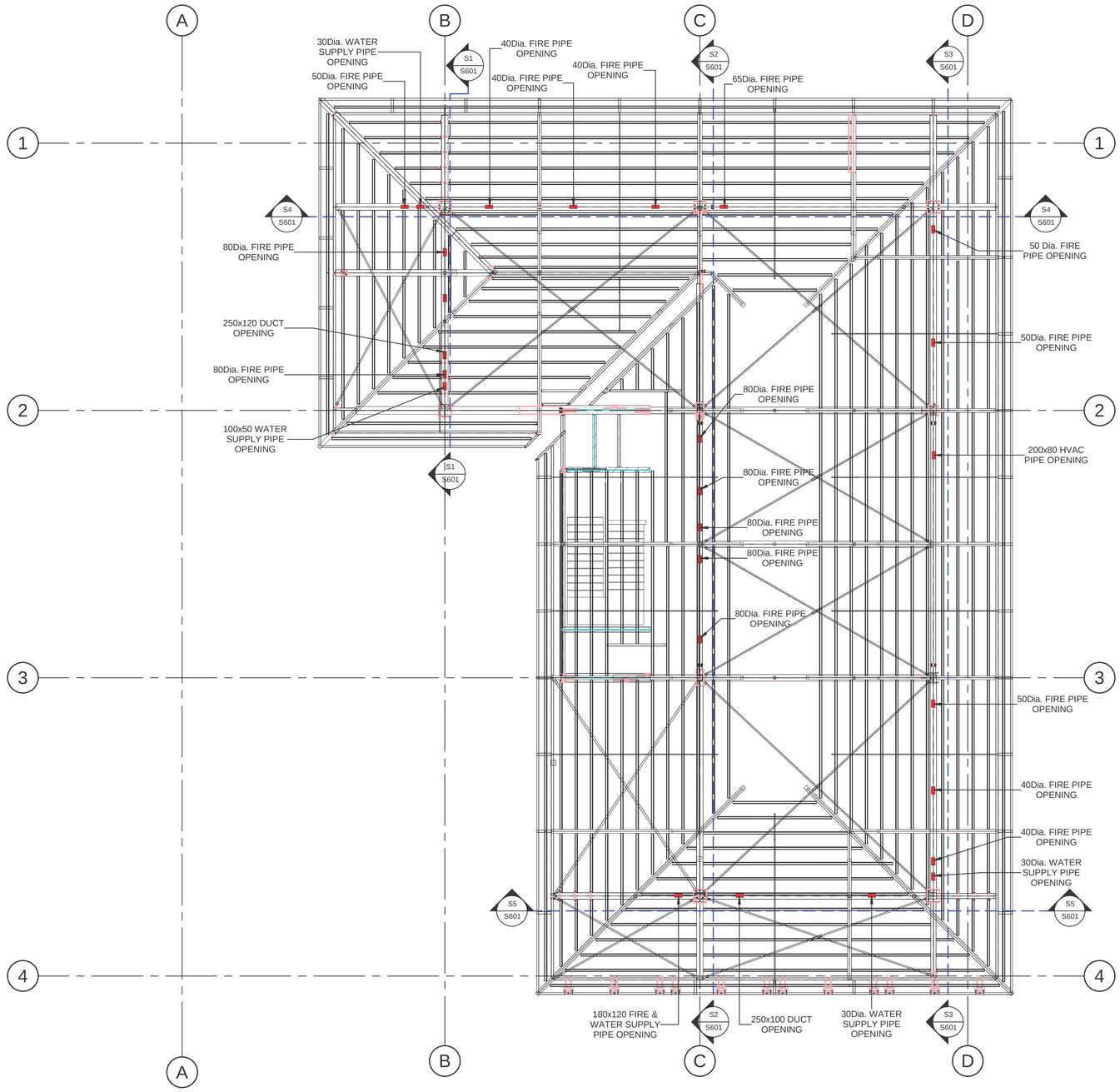
Scale	A1= 1 : 50
Date	24/11/2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

Job Title: LEVEL 6 SECTIONS LAYOUT 1

Drawing Number: S601

Issue: A



1 LEVEL 6 PENETRATION LAYOUT

1 : 100

SILICON Engineering Consultants Ltd

ISSUE	DATE	REVISION DESCRIPTION	INITIALS
B	03-11-18	LEVEL 6 PENETRATION DRAWING - ISSUED FOR APPROVAL	
A	03-11-18	GRID B LEVEL 6 PENETRATION DRAWING - ISSUED FOR APPROVAL	

Scale	A1= 1 : 100
Date	24/11/2018
Drawn	JR
Checked	TP
Approved	TP
Job No.	FBB1090

Job Name: LATITUDE APARTMENTS

Job Title: LEVEL 6 PENETRATION LAYOUT

Drawing Number: S600

Issue: B