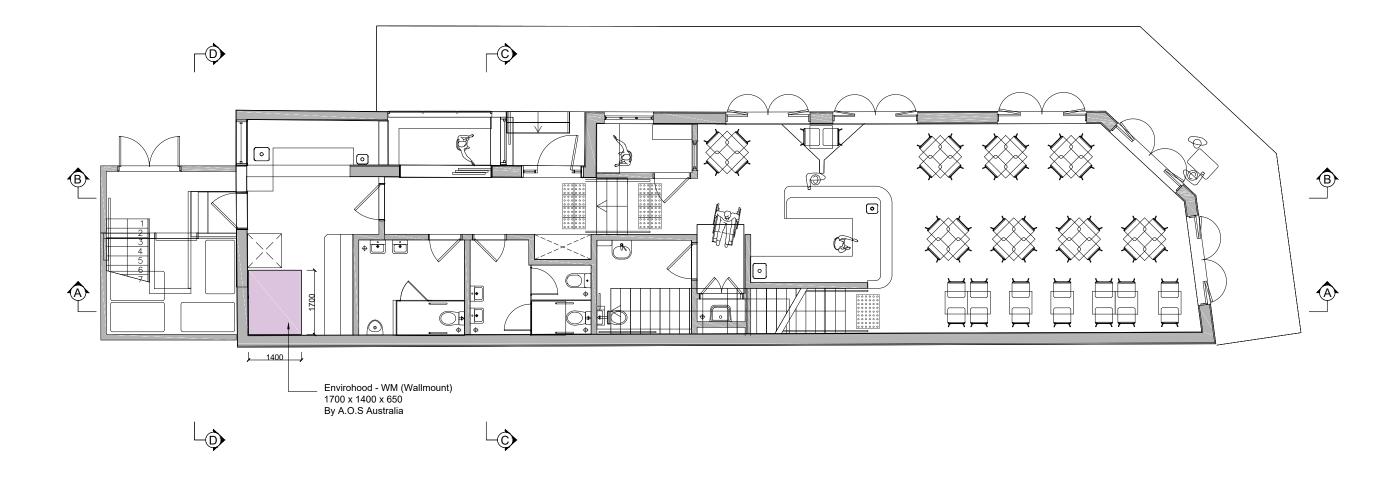
## MECHANICAL EXHAUST SYSTEM

14 SOUTH STEYNE, MANLY NSW 2095





EXHAUST HOOD LAYOUT GROUND LEVEL

Scale 1: 100 @ A3

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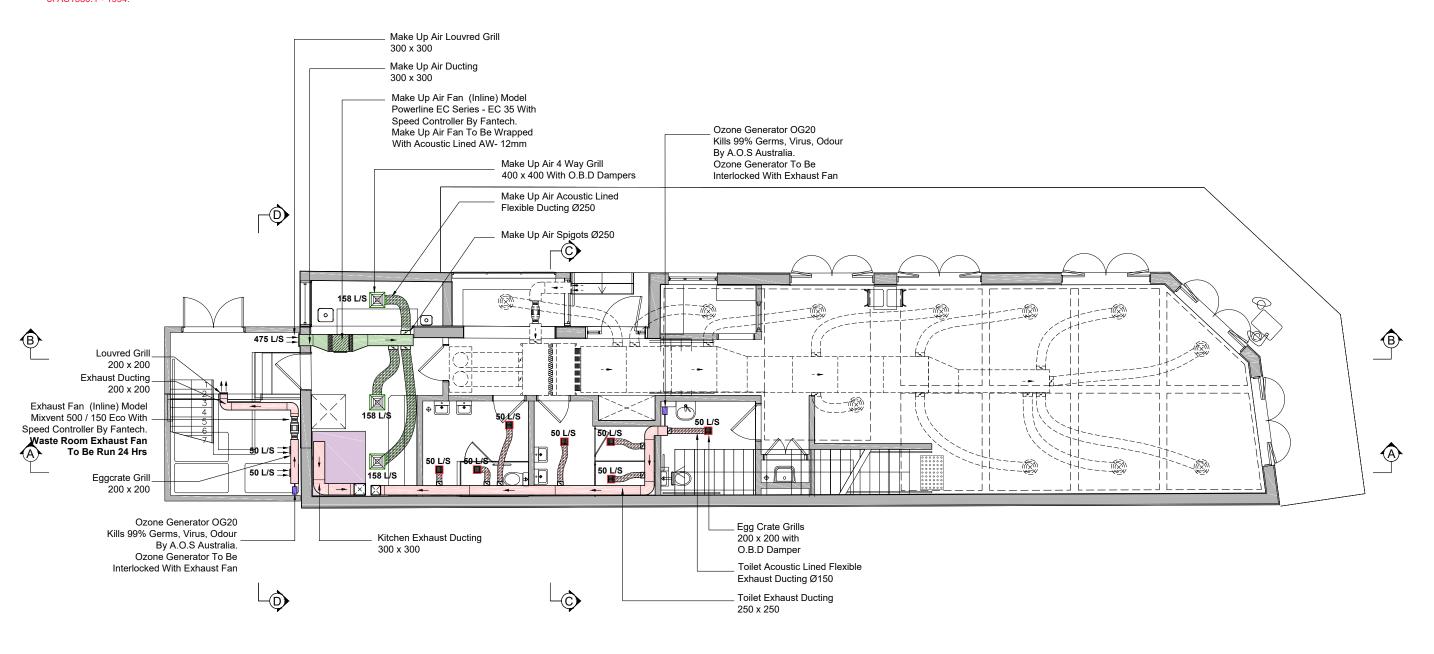
ISS	AMENDMENT	DATE
Α	FOR INFORMATION	18/02/2022
В	FOR INFORMATION	04/03/2022

JC Ventilation and Engineering Pty Ltd Consulting and Design Stainless Steel Fabrication-Catering Equipment ABN 42 099 952 879

ABN 42 099 952 879 Unit 20 / 55-61 Pine Rd, Yennora NSW 2161

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PROJECT:	SCALE:	1 : 100 @ A3
14 SOUTH STEYNE, MANLY NSW 2095	DATE :	04/03/22
DRAWING TITLE :  EXHAUST HOOD LAYOUT	JOB NO. :	2022-08
GROUND LEVEL  APPROVED: G.Clark	DRAWING NO. :	01
DRAWN: JC	ISSUE :	В



## PROPOSED EXHAUST SYSTEM LAYOUT GROUND LEVEL

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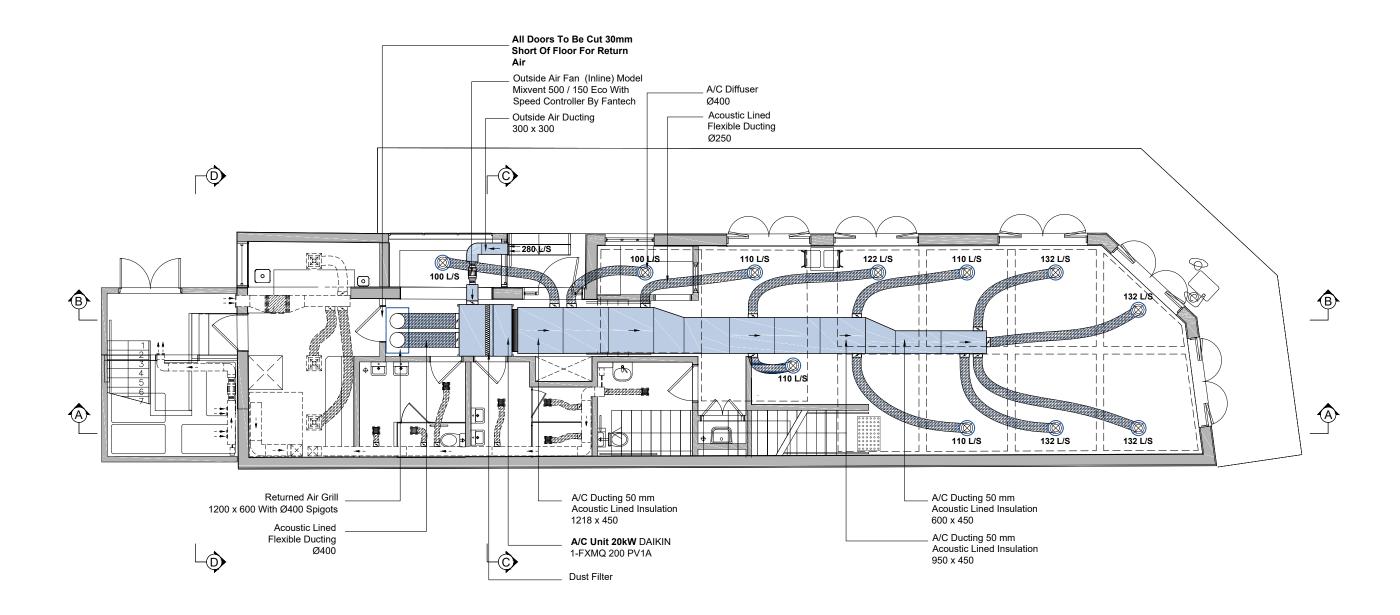
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PROJECT :  14 SOUTH STEYNE, MANLY NSW 2095		SCALE:	1 : 100 @ A3
		DATE :	04/03/22
DRAWING TITLE :  PROPOSED EXHAUST SYSTEM LAYOUT  GROUND LEVEL  APPROVED : G.Clark		JOB NO. :	2022-08
		DRAWING NO. :	02
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# PROPOSED AIR-CONDITIONING SYSTEM LAYOUT GROUND LEVEL

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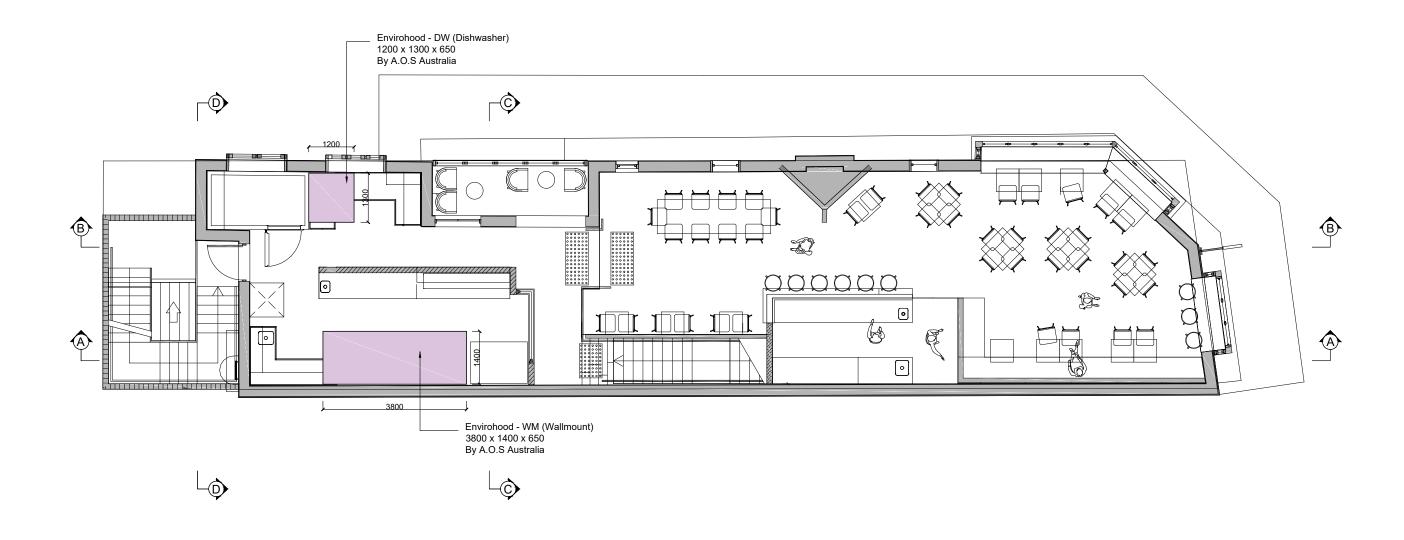
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JC Ventilation and Engineering Pty Ltd
Consulting and Design
Stainless Steel Fabrication-Catering Equipment
ABN 42 099 952 879

ABN 42 099 952 879 Unit 20 / 55-61 Pine Rd, Yennora NSW 2161

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PROJECT:	SCALE:	1 : 100 @ A3
14 SOUTH STEYNE, MANLY NSW 2095	DATE :	04/03/22
DRAWING TITLE : PROPOSED AIR-CONDITIONING SYSTEM LAYOUT	JOB NO. :	2022-08
APPROVED : G.Clark	DRAWING NO. :	03
DRAWN: JC	ISSUE:	В



## EXHAUST HOOD LAYOUT FIRST LEVEL

Scale 1 : 100 @ A3

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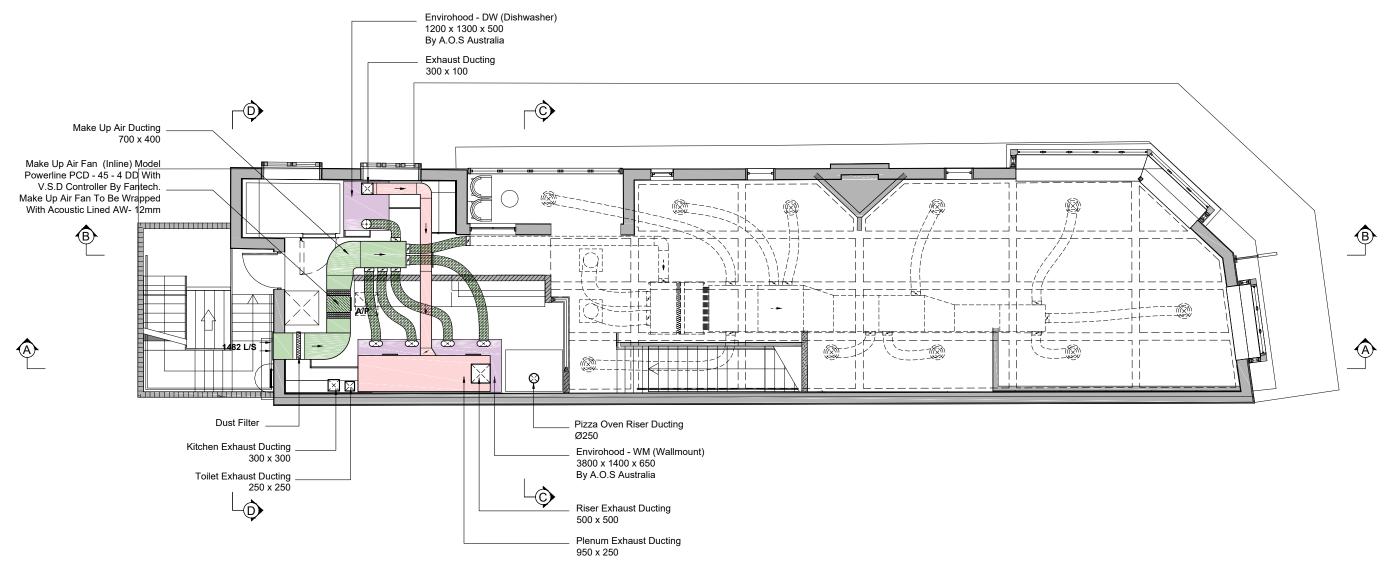
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FIRST LEVEL  APPROVED: G.Clark	DRAWING NO. :	04
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## PROPOSED EXHAUST SYSTEM LAYOUT FIRST LEVEL

Scale 1: 100 @ A3

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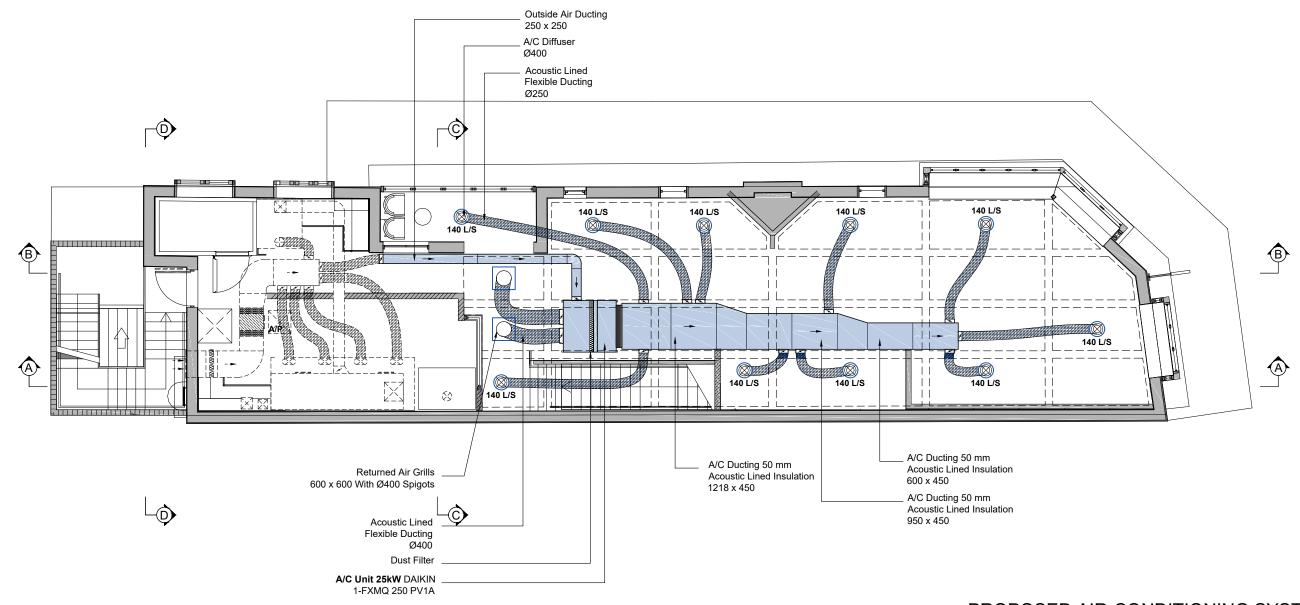
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PROJECT:	SCALE:	1 : 100 @ A3
14 SOUTH STEYNE, MANLY NSW 2095	DATE :	02/03/22
DRAWING TITLE: PROPOSED EXHAUST SYSTEM LAYOUT	JOB NO. :	2022-08
FIRST LEVEL  APPROVED: G.Clark	DRAWING NO. :	05
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PROPOSED AIR-CONDITIONING SYSTEM LAYOUT FIRST LEVEL

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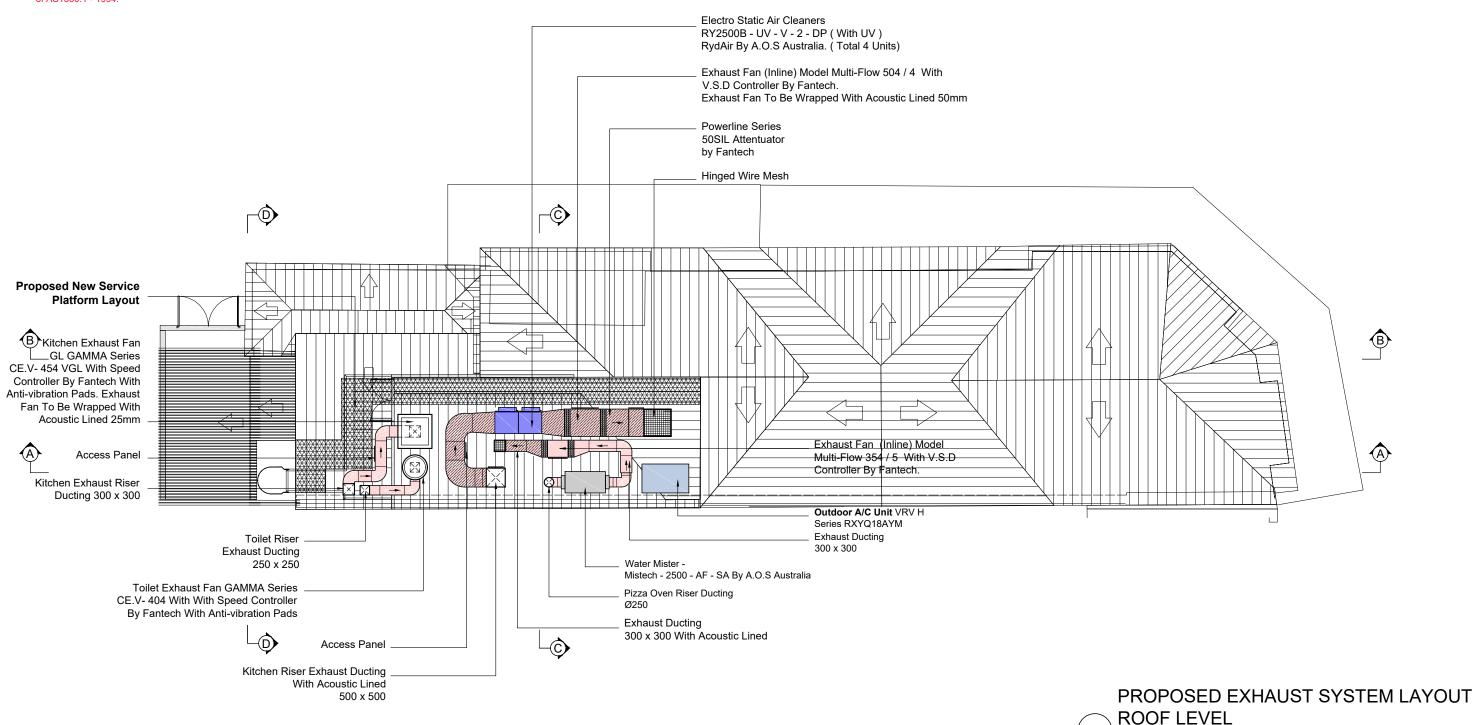
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PROJECT:	SCALE:	1 : 100 @ A3
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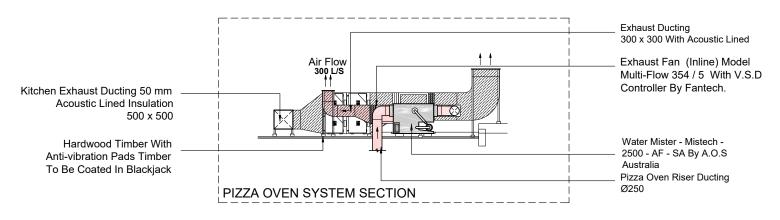
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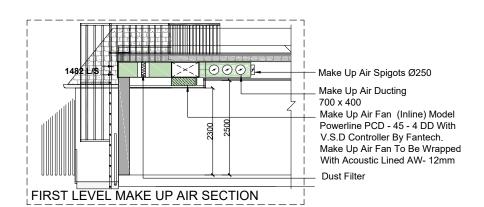
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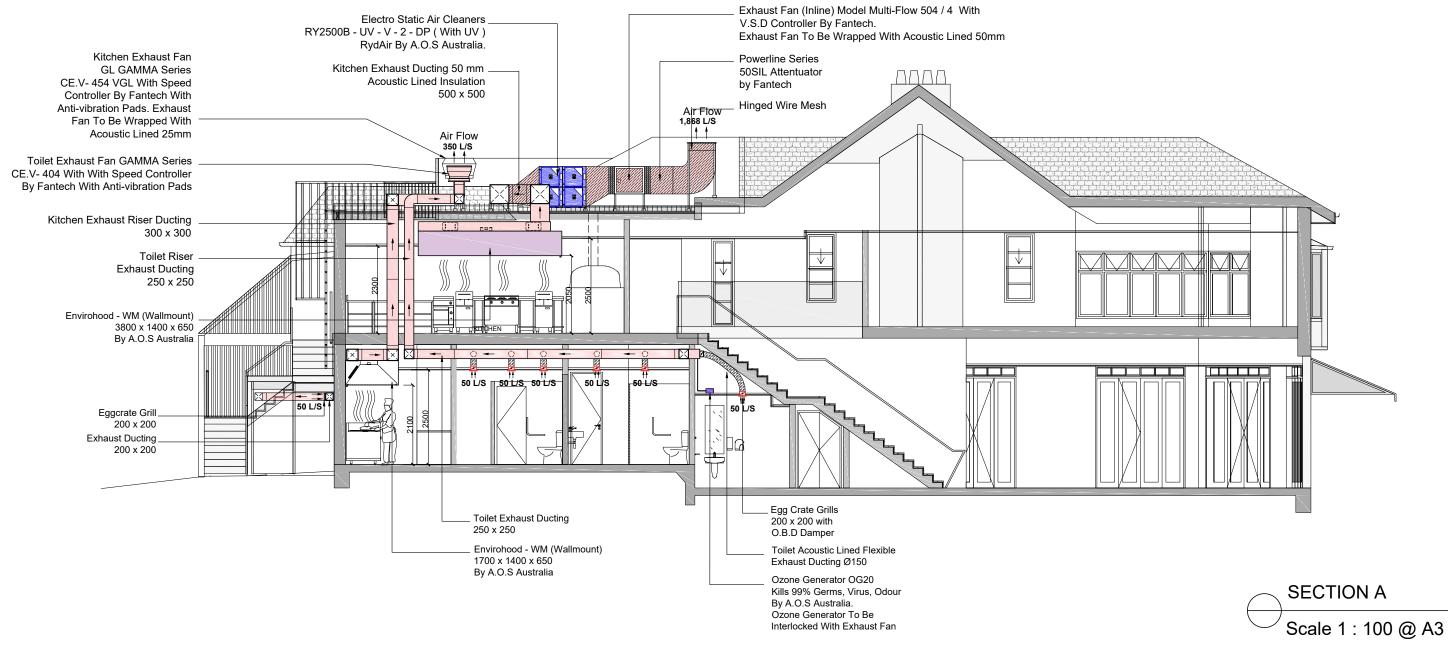
Office: (02) 9892 4465 Mobile: 0402 236 300 Facsimile: (02) 9892 2940 Email: admin@jcvent.com.au Web: www.jcvent.com.au

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DRAWING TITLE : PROPOSED EXHAUST SYSTEM LAYOUT	JOB NO. :	2022-08
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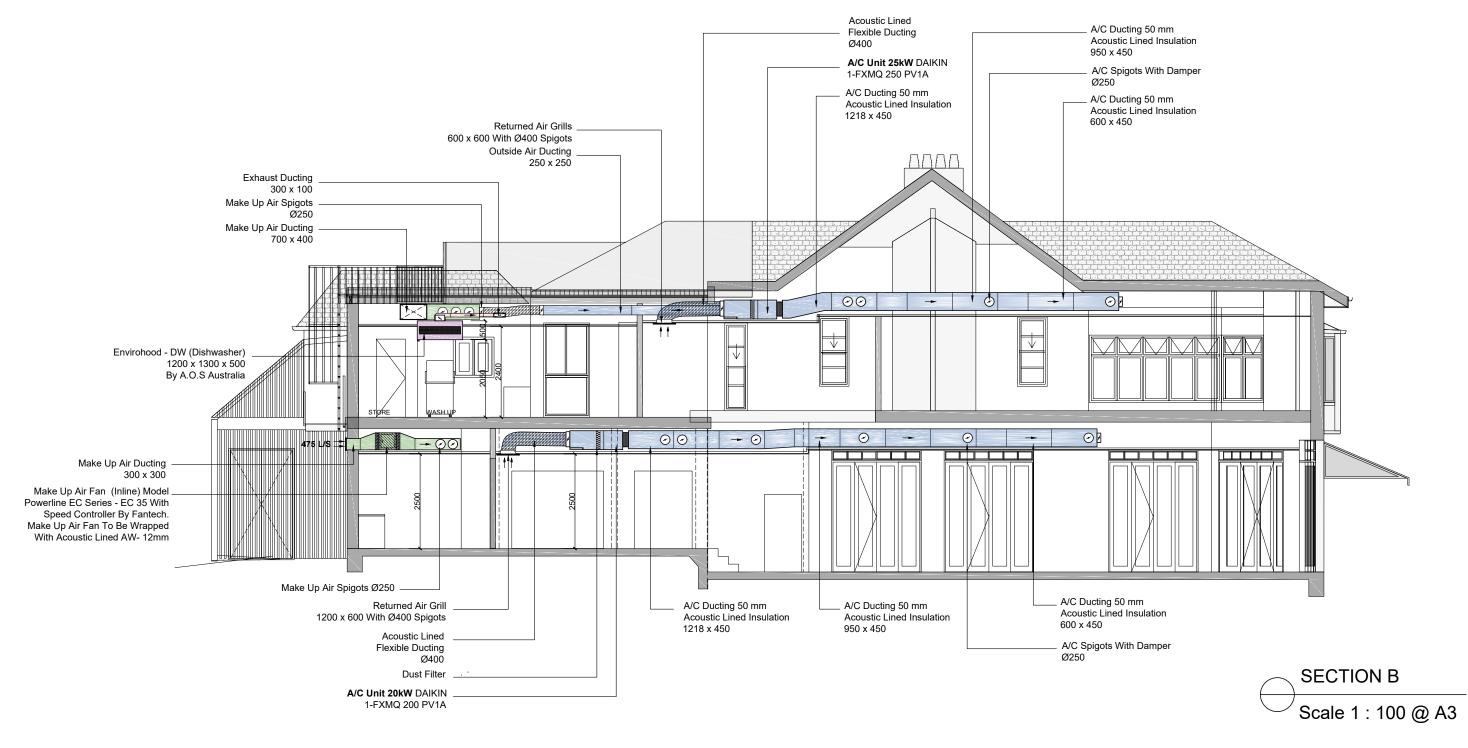
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14 SOUTH STEYNE, MANLY NSW 2095	DATE :	04/03/22
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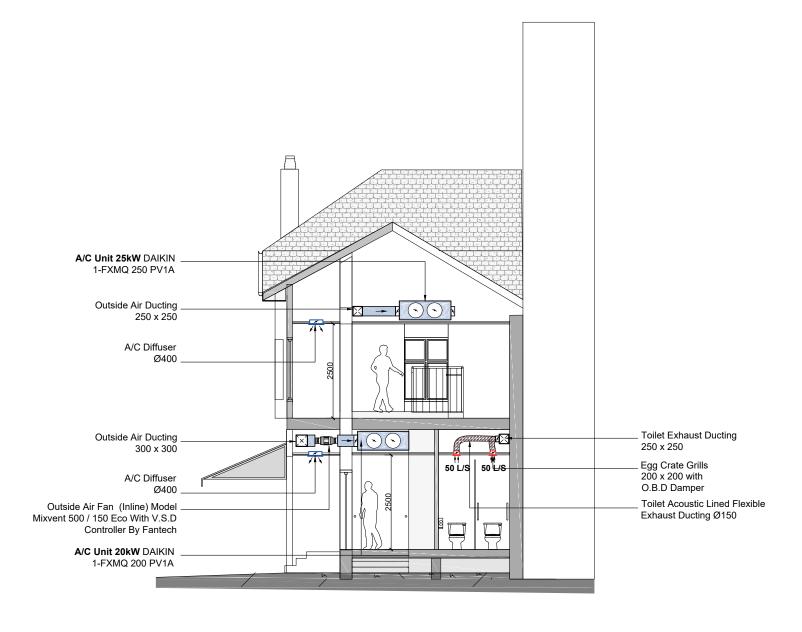
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ABN 42 099 952 879 Unit 20 / 55-61 Pine Rd,Yennora NSW 2161

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PROJECT:		SCALE:	1 : 100 @ A3
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DRAWING TITLE : SECTION B		JOB NO. :	2022-08
APPROVED :	G.Clark	DRAWING NO. :	09
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SECTION C

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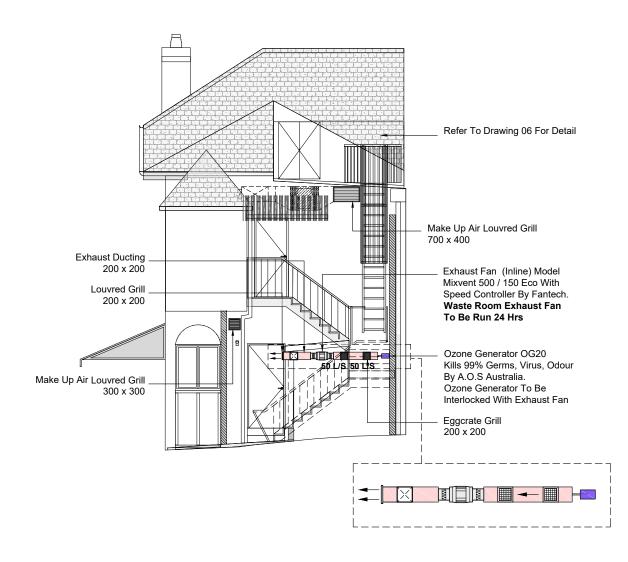
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PROJECT:	SCALE:	1 : 100 @ A3
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DRAWING TITLE : SECTION C	JOB NO. :	2022-08
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SECTION D

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Unit 20 / 55-61 Pine Rd, Yennora NSW 2161

PROJECT:	SCALE:	1 : 100 @ A3		
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	DATE:	04/03/22		
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SECTION D	JOB NO. :	2022-08		
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#### Specifications Kitchen Exhaust System - Ground Level

- Enviro High Efficiency Hood WM 1700 x 1400 x 650 By A.O.S Australia For Cooking
- Filters 381 x 457 x 51 Stainless Steel Honeycomb Baffle Flame Guard Type CISRO Approved
- Led Downlights, 4000K, CRI 80, IP44 With Heat Resistance Glass

*	Total Air Flow	=	592	L/S
*	Hood Velocity	=	0.31	m/s
*	Duct Velocity	=	6.57	m/s
*	Outlet Velocity	=	8.9	m/s
*	Static Pressure	=	280	ра
*	Duct Access Panels	=	400 X 300	

Exhaust Fan GL GAMMA Series CE.V- 454 VGL With Speed Controller By Fantech With Anti-vibration Pads Exhaust Fan To Be Wrapped With Acoustic Lined 50mm 25 mm

**Exhaust Ducting** 300 x 300

Exhaust Fan Acoustic Level dBA At 3 Metres

Power Requirement

For Exhaust Hood Light 10AMPS - 1 Phase Plug Base Required (Female)

For Exhaust Fan 3.5 AMPS - 1 Phase - 415 Volt

NOTE: Builder To Supply Bulk head / Fire Rated Panel, Roof Flashing and Tundish Points For Drains

This System Has Been Designed And Will Be Installed In Accordance To The Australian Standards As 1668 Parts 1 (2015 ed.) & part 2 (2012 ed.) Complies With section J5 Of The NCC Standards.

#### Specifications Kitchen Exhaust System - First Level

Enviro High Efficiency Hood - WM 3800 x 1400 x 650 By A.O.S Australia - For Cooking = 1,588 L/S

Enviro High Efficiency Hood - DW 1200 x 1300 x 500 By A.O.S Australia - For Dishwasher = 280 L/S

Filters 381 x 457 x 51 Stainless Steel Honeycomb Baffle Flame Guard Type CISRO Approved

Led Downlights, 4000K, CRI 80, IP44 With Heat Resistance Glass

**Total Air Flow** 1,868 L/S **Hood Velocity** 0.34 m/s **Duct Velocity** 7.47 m/s **Outlet Velocity** 8.58 m/s Static Pressure 320 pa

Exhaust Fan (Inline) Model Multi-Flow 504 / 4 With V.S.D Controller By Fantech.

Exhaust Fan To Be Wrapped With Acoustic Lined 50mm

**Exhaust Ducting** 950 x 250, 500 x 500, 300 x 100 , 725 x 725 With Acoustic Lined

400 X 300

Exhaust Fan Acoustic Level dBA At 3 Metres

Powerline Series 50SIL Attentuator By Fantech

Electro Static Air Cleaners RY2500B - UV - V - 2 - DP (With UV) RydAir By A.O.S Australia. (Total 4 Units)

Power Requirement

**Duct Access Panels** 

For Exhaust Hood Light = 10AMPS - 1 Phase Plug Base Required (Female)

For Exhaust Fan 4.5 AMPS - 3 Phase - 415 Volt

For Electro Static Air Cleaner = 2.0 AMPS (Each Unit)

NOTE: Builder To Supply Bulk head / Fire Rated Panel, Roof Flashing and Tundish Points For Drains

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> Office: (02) 9892 4465 Mobile: 0402 236 300

Facsimile: (02) 9892 2940 Email: admin@jcvent.com.au Web: www.jcvent.com.au

PROJECT:	SCALE:	NTS @ A3
14 SOUTH STEYNE, MANLY NSW 2095		
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DRAWING TITLE :		
SPECIFICATIONS SHEET 1	JOB NO. :	2022-08
APPROVED: G.Clark	DRAWING NO. :	12
DRAWN: JC	ISSUE:	В

## Specifications Pizza Oven Exhaust System - First Level

*	Total Air Flow	=	300	L/S
*	Duct Velocity	=	3.6	m/s
*	Outlet Velocity	=	6.8	m/s
*	Static Pressure	=	280	ра
*	Duct Access Panels	=	N/A	
*	Exhaust Ducting	=	Ø 250	, 300 x 300
*	Spigots with Damper	=	N/A	
*	Acoustic Lined Flexible Ducting	=	N/A	
*	Eggcrate Grills With O.D.B Damper	=	N/A	

\* Exhaust Fan Acoustic Level = 51 dBA At 3 Metres

\* Exhaust Fan (Inline) Model Multi-Flow 354 / 5 With Speed Controller By Fantech

\* Water Mister - Mistech - 2500 - AF - SA By A.O.S Australia

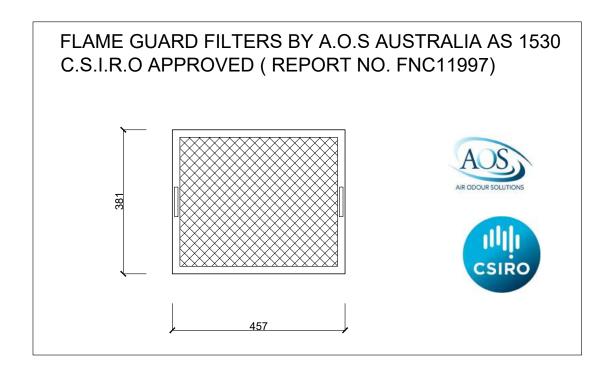
\* Power Requirement

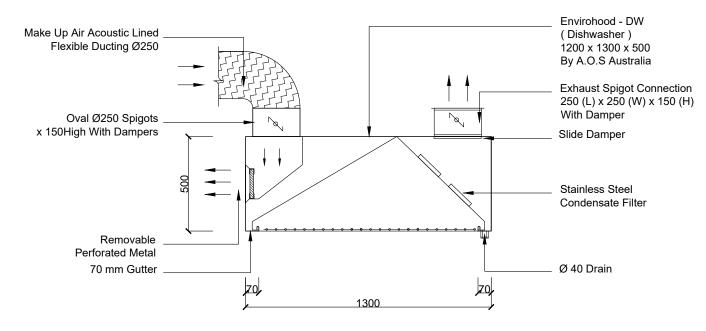
Ceiling Access Panels

For Exhaust Fan = 3.6 AMPS - 1 Phase - 240 Volt For Water Mister = See Attached Specification Sheets

NOTE: Builder To Supply Bulk head / Fire Rated Panel, Roof Flashing and Tundish Points For Drains

This System Has Been Designed And Will Be Installed In Accordance To The Australian Standards As 1668 Parts 1 (2015 ed.) & part 2 (2012 ed.) Complies With section J5 Of The NCC Standards.





EXHAUST HOOD SECTION VIEW - DISHWASHER
Scale 1:20 @ A3

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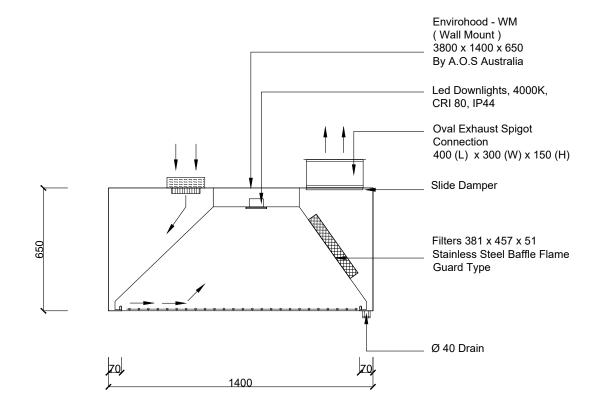
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450 x 450 ( Provided by Builder) Location TBC

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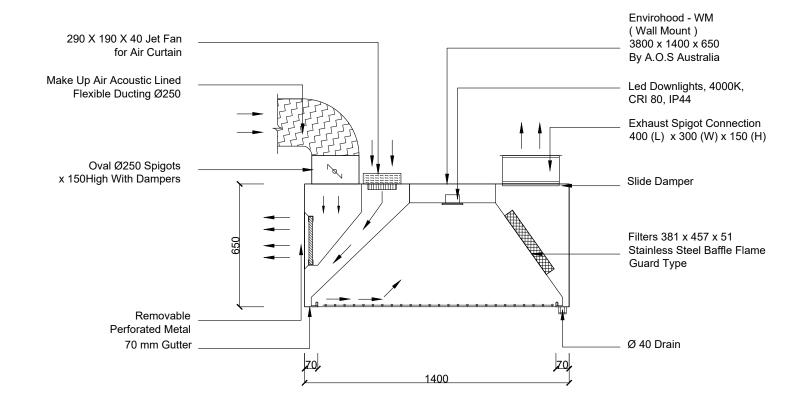
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14 SOUTH STEYNE, MANLY NSW 2095	DATE :	04/03/22
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**EXHAUST HOOD SECTION VIEW - COOKING GROUND LEVEL** 

Scale 1:20 @ A3



**EXHAUST HOOD SECTION VIEW - COOKING** FIRST LEVEL

Scale 1:20 @ A3

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ISS	AMENDMENT	DATE	
Α	FOR INFORMATION	18/02/2022	

JC Ventilation and Engineering Pty Ltd Consulting and Design Stainless Steel Fabrication-Catering Equipment ABN 42 099 952 879

Unit 20 / 55-61 Pine Rd, Yennora NSW 2161

PROJECT:	SCALE:	NTS @ A3
14 SOUTH STEYNE, MANLY NSW 2095	DATE :	04/03/22
DRAWING TITLE : SPECIFICATIONS SHEET 3	JOB NO. :	2022-08
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### Specifications Toilet Exhaust System - Ground Level

**Total Air Flow** 350 L/S **Duct Velocity** 5.6 m/s **Outlet Velocity** 8.9 m/s Static Pressure 320 pa **Duct Access Panels** N/A **Exhaust Ducting** 250 x 250 Spigots with Damper Ø150 Acoustic Lined Flexible Ducting Ø150

\* Eggcrate Grills With O.D.B Damper = 7 Off 200 x 200

\* Ceiling Access Panels = 450 x 450 ( Provided by Builder) Location TBC

\* Exhaust Fan Acoustic Level = 51 dBA At 3 Metres

\* Toilet Exhaust Fan GAMMA Series CE.V- 404 With Speed Controller By Fantech With Anti-vibration Pads

\* Ozone Generators OG20 Kills 99% Germs, Virus and Odour By A.O.S Australia

\* Power Requirement

For Exhaust Fan = 2.2 AMPS - 1 Phase - 240 Volt For Ozone Generator OG20 = 0.80 AMPS - 1 Phase - 240 Volt

Note: Ozone Generator To Be Interlocked With Exhaust Fan

This System Has Been Designed And Will Be Installed In Accordance To The Australian Standards As 1668 Parts 1 (2015 ed.) & part 2 (2012 ed.) . Complies With section J5 Of The NCC Standards.

### Specifications Waste Room Exhaust System - Ground Level

*	Total Air Flow	=	100	L/S	
*	Duct Velocity	=	2.5	m/s	
*	Outlet Velocity	=	3.4	m/s	
*	Static Pressure	=	110	ра	
*	Duct Access Panels	=	N/A		
*	Exhaust Ducting	=	200 x	200	
*	Spigots with Damper	=	Ø150		
*	Acoustic Lined Flexible Ducting	=	Ø150	Ø150	
*	Eggcrate Grills With O.D.B Damper	=	200 x	200	
*	Louvred Grill With O.D.B Damper	=	200 x	200	
*	Ceiling Access Panels	=	N/A		
*	Exhaust Fan Acoustic Level	=	47	dBA At 3 Metre	

- \* Exhaust Fan (Inline) Model Mixvent 500 / 150 Eco With Speed Controller By Fantech
- \* Ozone Generators OG20 Kills 99% Germs, Virus and Odour By A.O.S Australia
- \* Power Requirement

For Exhaust Fan = 0.30 AMPS - 1 Phase - 240 Volt For Ozone Generator OG20 = 0.80 AMPS - 1 Phase - 240 Volt

Note: Ozone Generator To Be Interlocked With Exhaust Fan

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JC Ventilation and Engineering Pty Ltd Consulting and Design Stainless Steel Fabrication-Catering Equipment ABN 42 099 952 879

Unit 20 / 55-61 Pine Rd, Yennora NSW 2161
Office: (02) 9892 4465

Mobile: 0402 236 300
Facsimile: (02) 9892 2940
Email: admin@jcvent.com.au
Web: www.jcvent.com.au

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## Specifications Make Up Air System (Ground Level)

**Total Air Flow** 475 L/S **Duct Velocity** 5.27 m/s Inlet Velocity 5.6 m/s Static Pressure 110 pa **Duct Access Panels** N/A Make Up Air Ducting 300 x 300 = Spigots with Damper Ø150 Acoustic Lined Flexible Ducting Ø150 Eggcrate Grills With O.D.B Dampers = N/A

4 Way Diffusers With O.D.B Dampers = 400 x 400

Ceiling Access Panels 450 x 450 ( Provided by Builder) Location TBC =

Make Up Air Fan Acoustic Level 49 dBA At 3 Metres

Make Up Air Fan (Inline) Model Powerline EC Series - EC 35 With Speed Controller By Fantech. Make Up Air Fan To Be Wrapped With Acoustic Lined AW- 12mm

Power Requirement

For Make Up Air Fan 2.0 AMPS - 1 Phase - 240 Volt

#### Specifications Make Up Air System - First Level

Total Air Flow 1,482 L/S

**Duct Velocity** 7.05 m/s

Inlet Velocity 6.75 m/s

Static Pressure 230 pa

**Duct Access Panels** N/A

Make Up Air Ducting 700 x 400, 700 x 500, 250 x 250

Spigots with Damper Ø250

**Acoustic Lined Flexible Ducting** Ø250

Eggcrate Grills With O.D.B Damper N/A

4 Way Diffusers = N/A

Ceiling Access Panels 600 x 600 ( Provided by Builder) Location TBC

Make Up Air Fan Acoustic Level dBA At 3 Metres

Make Up Air Fan (Inline) Model Powerline PCD - 45 - 4 DD With V.S.D Controller By Fantech. Make Up Air Fan To Be Wrapped With Acoustic Lined AW- 12mm

Dust Filter (Camfil) 690 x 490 x 45

Power Requirement

For Make Up Air Fan 1.47 AMPS - 3 Phase - 415 Volt

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### Specifications Air-Conditioning System (Ground Level)

\* Total Air Flow = 1200 L/S Supply

\* Indoor Air Conditioning Unit = A/C Unit 20kW DAIKIN 1-FXMQ 200 PV1A

\* Power Requirements = Indoor 13.3 AMPS - 3 Phase - 415V - 0.75 kW

\* Outdoor Air Conditioning Unit = Outdoor A/C Unit VRV H Series RXYQ18AYM

Power Requirements = Outdoor 13.3 AMPS - 3 Phase - 415V - 0.75 kW

\* Acoustic Lined A/C Ducting = 1218 x 450 , 950 x 450 , 600 x 450

\* Double Defection A/C Louvred Grills with O.B.D Damper = N/A

\* 4 Way A/C Diffusers with O.B.D Damper = Ø400

\* Return Air Grills With 400Ø Spigots = 1200 x 600

Dust Filter = 1218 x 370 x 45 (In Two Filters)

\* Outside Air Ducting = 300 x 300

 Outside Air Fan (Inline) Model Mixevent 500 / 150 Eco With Speed Controller By Fantech Outside Air Fan To Be Interlocked With Air-conditioning Unit

\* Condenser Unit Pipe and Drainage Pipes - See Specification Sheet

**NOTE:** Builder To Supply Tundish Points For Drains

### Specifications Air-Conditioning System (First Level)

\* Total Air Flow = 1400 L/S Supply

\* Indoor Air Conditioning Unit = A/C Unit 25kW DAIKIN 1-FXMQ 250 PV1A

\* Power Requirements = Indoor 13.3 AMPS - 3 Phase - 415V - 0.75 kW

\* Outdoor Air Conditioning Unit = Outdoor A/C Unit VRV H Series RXYQ18AYM

Power Requirements = Outdoor 13.3 AMPS - 3 Phase - 415V - 0.75 kW

\* Acoustic Lined A/C Ducting = 1218 x 450 , 950 x 450 , 600 x 450

\* Double Defection A/C Louvred Grills with O.B.D Damper = N/A

\* 4 Way A/C Diffusers with O.B.D Damper = Ø400

\* Return Air Grills With 400Ø Spigots = 2 Off 600 x 600

\* Dust Filter = 1218 x 370 x 45 (In Two Filters)

\* Outside Air Ducting = 250 x 250, Ø250

Condenser Unit Pipe and Drainage Pipes - See Specification Sheet

**NOTE: Builder To Supply Tundish Points For Drains** 

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