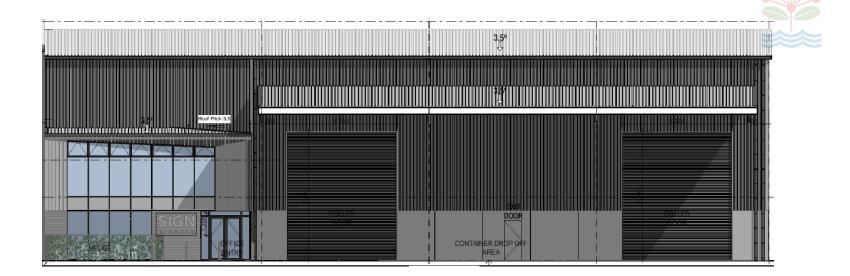
## Page 1 of 8 Building Consent BCO10350825 Approved by Auckland Council

## 04/08/2022

### **DRAWING INDEX**

SHEET NUMBER	SHEET NAME	CURRENT REVISION
M000	LEGENDS & GENERAL NOTES	0
M001	EQUIPMENT SCHEDULES	0
M002	STANDARD DETAILS	0
M100	HVAC LAYOUT - GROUND FLOOR	0
M101	HVAC LAYOUT - FIRST FLOOR	0
M102	HVAC LAYOUT - OFFICES	0
M103	HVAC LAYOUT - ROOF	0





# PROPOSED COMMERCIAL DEVELOPMENT

56 ALLENS ROAD, EAST TAMAKI, AUCKLAND

# MECHANICAL SERVICES BUILDING CONSENT ISSUE - APRIL 2022



Auckland + 64 9 357 8100 Level 18, AMP Centre, 29 Customs Street West, Auckland.

Wellington + 64 4 815 8310 Level 4, City Chambers, 142 Featherston Street, Wellington

www.agile-eng.co.nz

# Arthur Adams

## Page 2 of 8 Building Consent BCO10350825 Approved by Auckland Council

## 04/08/2022

PIPEWO	<u>DRK</u>	DUCTV	<u>VORK</u>
□ TRV	THERMOSTATIC RADIATOR VALVE		RECTANGULAR DUCT BEND AWAY
界	MOTORISED VALVE		RECTANGULAR DUCT RISER
PDV	PRESSURE DIFFERENTIAL REGULATOR VALVE	•	CIRCULAR DUCT RISER
$\bowtie$	ISOLATING VALVE	⋈	CEILING MOUNTED 4 WAY BLOW DIFFUSER C/W CUSHION HEAD
<b>!</b>	ISOLATING REGULATING VALVE	<b>-</b> ₩	CEILING MOUNTED 3 WAY BLOW DIFFUSER
$\mathbb{R}$	MOTORISED 3-PORT VALVE		C/W CUSHION HEAD CEILING MOUNTED 2 WAY CORNER BLOW
$\overline{\Sigma}$	NON RETURN VALVE	<del>-</del> ₽	DIFFUSER C/W CUSHION HEAD
<b>₽</b>	PRESSURE RELIEF VALVE		CEILING MOUNTED EXTRACT GRILLE C/W CUSHION HEAD
K	STRAINER	<b>S</b>	SWIRL DIFFUSER, SQUARE
$\bigcirc$	WATER PUMP	<u> </u>	SWIRL DIFFUSER, ROUND
	PIPE RUN ABOVE FLOOR BELOW BENCH LEVEL	•	•
	PIPE RUN BELOW FLOOR		VALVE DIFFUSER
	PIPE RUN EXPOSED AT HIGH LEVEL		SUPPLY DIFFUSER ON UNDERSIDE OF DUCT
LOW _ HIGH	PIPE RUN HIDDEN AT HIGH LEVEL		EXTRACT GRILLE ON UNDERSIDE OF DUCT
<u>CHIOH</u>	PIPE DROPS OR RISES		SIDE WALL/DUCT MOUNTED GRILLE OR LOUVRE
	DIRECTION OF FLOW	中	TRANSFER GRILLE OR DOOR GRILLE
<u> </u>	PIPE CROSSING. BROKEN PIPE BEHIND	<b>←</b> √-	AIR FLOW DISCHARGE OR INTAKE
(EX)	EXPANSION TANK	S	GRILLE REFERENCE
AAV P	AUTOMATIC AIR VENT		-AIR VOLUME (I/s)
(T)	TEMPERATURE SENSOR		FLEXIBLE DUCT
P	PRESSURE SENSOR (PLENUM MOUNTED UNLESS NOTED OTHERWISE)	D 🖋	SINGLE BLADE DAMPER
ےاب	PIPE UNION		OPPOSED BLADE DAMPER
' ' TD		pl pl pl	PARALLEL BLADE DAMPER
Y TP	TUNDISH	FD	FIRE DAMPER
Ϋ	TEST POINT		RECTANGULAR DUCT
TS	TEMPERATURE SENSOR TO BMS	<u></u>	CIRCULAR DUCT
FS	FLOW SWITCH TO BMS		DUCT TRANSITION RECTANGULAR TO ROUND
FC	FLOW CONTROL		
PS	PRESSURE SENSOR TO BMS		DELETED DUCT
X	DRAIN POINT	(##)	OUTDOOR AIR (I/s)
M	FLEXIBLE CONNECTION	$\bigcap$ R	TO BE RELOCATED
VSD	VARIABLE SPEED DRIVE	400x250 OA/2	DUCT INTERNALLY LINED 25mm
— REF——	REFRIGERANT PIPEWORK		

	DUCTED FAN COIL UNIT
	HIGH WALL A/C UNIT
TS	TEMPERATURE SENSOR
Tav	TEMPERATURE AVERAGING THERMOSTAT
S	INDEPENDANT TEMPERATURE / HUMIDIT SENSOR
CO	CARBON MONOXIDE SENSOR
<	FAN SWITCH
M—	MOTORISED DAMPER
□-×-	REFRIGERANT SAFETY ALARM AND FLASHING LIGHT
	GRILLE LEGEND
$\boxtimes_N \boxtimes_N$	NEW DIFFUSER OR GRILLE
$\square_R \square_R$	RELOCATED DIFFUSER OR GRILLE
⊠e Øe	EXISTING DIFFUSER OR GRILLE TO REMAIN

# GRILLE REFERENCE: S SUPPLY E EXHAUST R RETURN L LOUVRE DG DOOR GRILLE

TG TRANSFER GRILLE

## ELECTRICAL



MECHANICAL SERVICES SWITCH BOARD/CONTROL PANEL



MAIN SWITCH BOARD

### **ABBREVIATIONS**

AP.	ACCESS PANEL
AΗ	AFTER-HOURS BUTTON
AC	AIR CONDITIONING
AHU	AIR HANDLING LINIT

BD BACKDRAFT DAMPER

CHWf+r CHILLED WATER FLOW & RETURN PIPING

CONDENSATE PIPING

c/w COMES WITH

MD MOTORISED DAMPER

HWC DOMESTIC HOT WATER CYLINDER

D DAMPER

CD

OBD OPPOSED BLADE DAMPER
O/A OUTDOOR AIR

FD / FDs FIRE DAMPER(s)

FC / FCs FIRE COLLAR(s)

FCU / FCUs FAN COIL UNIT(s)

DN INTERNAL PIPE DIAMETER
FA FROM ABOVE

FB FROM BELOW

TA TO ABOVE

TB TO BELOW

TL TOP LEVEL DUCT TRANSITION

TV TURNING VANE
U/C UNDERCUT DOOR

VRF VARIABLE REFRIGERANT FLOW

N INEVV

U/C DOOR UNDERCUT (25mm)

EDH ELECTRIC DUCT HEATER

ERU ENERGY RECOVERY UNIT

NORMALLY OPEN

NV NATURALLY VENTILATED SPACE

NIL NIL VENTILATION

NC NORMALLY CLOSED

### GENERAL NOTES

- READ THESE DRAWINGS IN CONJUNCTION WITH THE MECHANICAL SPECIFICATION AND OTHER CONTACT DOCUMENTS.
- 2. DO NOT TAKE MEASUREMENTS OF THE DRAWINGS. ALL MEASUREMENTS SHALL BE CONFIRMED ON SITE.

### DUCT SCHEDULE (-)

1	GALV. MILD STEEL
2	GALV. MILD STEEL WITH 25mm INTERNAL ACOUSTIC INSULATION
3	GALV. MILD STEEL WITH 50mm INTERNAL ACOUSTIC INSULATION
4	GALV. MILD STEEL WITH 25mm EXTERNAL THERMAL INSULATION
5	GALV. MILD STEEL WITH 50mm EXTERNAL THERMAL INSULATION
6	FIRE RATED DUCTING
7	COMMERCIAL KITCHEN RATED
8	PVC DUCTING SYSTEM (FLATPACK OR SIMILAR)
9	STAINLESS STEEL

ALL GRILLES / DIFFUSER CUSHION HEADS TO BE INTERNALLY LINED WITH 10mm ACOUSTICALLY RATED INSULATION WHERE APPLICABLE.

#### FLEXIBLE DUCT SCHEDULE

l/s	SIZE
0 - 50	Ø150
51 - 100	Ø200
101 - 170	Ø250
171 - 270	Ø300
271 - 350	Ø350

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I, Alan Maharai, PROJECT ENGINEER SIGN-OFF TO CONFIRM ALL QUALITY ASSURANCE PROCEDURES ARE COMPLETE

FIGURED DIMENSIONS MUST BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.
ALL DIMENSIONS TO BE VERIFIED AND CHECKED ON SITE AND THE DESIONER TO BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.

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O BUILDING CONSENT ISSUE JU
B DRAFT BUILDING CONSENT ISSUE JU
A DEVELOPED DESIGN ISSUE JU
REV DESCRIPTON B

400x250 OA/4 DUCT INSULATED (WRAPPED LINED) 25mm

Arthur Adams

PROPOSED COMMERCIAL DEVELOPMENT

56 ALLENS ROAD, EAST TAMAKI,
AUCKLAND

DRAWING TITLE

MECHANICAL SERVICES
LEGENDS & GENERAL NOTES

## Page 3 of 8 Building Consent BCO10350825 Approved by Auckland Council

FAN & COV	VL SCHEDULE		•								•								
REFERENCE	MANUFACTURER	MODEL	AREA SERVED	FAN TYPE	D	UTY		DIMENSIO	N	UPS	TAND	WEIGHT(KG)	SF	·L		E	LECTRICAL		COMMENTS
					FLOW	STATIC				MIN	MAX	1	dB(A)	Dist.	PHASE	POWER	RUNNING AMPS	MSSB	1
					(L/S)	(PA)	W	Н	L					(m)		(KW)	(A)		
EF-01	FANTECH	GUEEC28D	TOILETS & LOCKERS	ROOF DOWNFLOW	290	180	575	330	575	310	410	8	50	3	1	0.29	1.5	EDB	TIME CLOCK
EF-02	FANTECH	ECE152M	KITCHENETTE	ROOF DOWNFLOW	75	100	Ø140	700	-	-	-		43	3	1	0.20	0.9	EDB	MANUAL SWITCH
EF-03	FANTECH	MV132E	LVL 1 KITCHENETTE	ROOF DOWNFLOW	50	70	310	200	310	210	260	2	43	3	1	0.1	0.60	EDB	MANUAL SWITCH
EF-W1	FANTECH	RDE0716	WAREHOUSE EXTRACT	ROOF DOWNFLOW	2000	50	1180	580	1180	780	980		69	3	3	0	0.0	MSB	CO, MANUALSWITCH
EF-W2	FANTECH	RDE0716	WAREHOUSE EXTRACT	ROOF DOWNFLOW	2000	50	1180	580	1180	780	980		69	3	3	0	0.0	MSB	CO, MANUALSWITCH
EF-W3	FANTECH	RDE0716	WAREHOUSE EXTRACT	ROOF DOWNFLOW	2000	50	1180	580	1180	780	980		69	3	3	0	0.0	MSB	CO, MANUALSWITCH
EF-W4	FANTECH	RDE0716	WAREHOUSE EXTRACT	ROOF DOWNFLOW	2000	50	1180	580	1180	780	980		69	3	3	0	0.0	MSB	CO, MANUALSWITCH
SF-01	FANTECH	WJ-315SILKIT	LUNCH & MAKE UP AIR	DUCTED	325	150	Ø417	-	2926	-	-	35	39	3	1	0.29	1.3	EDB	TIME CLOCK
SF-02	FANTECH	CE316S	OFFICE	ROOF DOWNFLOW	180	100	670	420	670	480	580	25	41	3	1	0.07	0.5	EDB	TIME CLOCK



- 1. THE CONTRACTOR SHALL CONFIRM FINAL FAN SELECTION WITH AIR FLOW AND STATIC RESISTANCE OF FINAL DUCTWORK INSTALLATION, PRIOR TO PROCUREMENT.
- ALL DUCT MOUNTED FANS SHALL BE PROVIDED WITH ANTI VIBRATION MOUNTS AND FLEXIBLE CONNECTIONS.
   THE CONTRACTOR SHALL CONFIRM NOISE LEVELS ARE WITHIN THE SPECIFIED RANGE PRIOR TO PROCUREMENT.
- 4. ALL FANS SHALL BE SUPPLIED WITH SPEED CONTROLLERS FOR SPEED SETTING DURING COMMISSIONING. 5. REFER TO SPEIFICATION FOR APPROVAL OF ALTERNATIVES
- 6. ALL ROOF FANS SHALL BE SUPPLIED WITH INSECT SCREENS AND SHALL BE FACTORY COLOURED TO MATCH ARCHITECTS SPECIFICATIONS
- $7. \ WALL \ MOUNTED \ FANS \ SHALL \ BE \ SUPPLIED \ WITH \ INSECT \ SCREENS \ AND \ GRAVITY \ BACKDRAUGHT \ DAMPERS/LOUVRES$
- 8 VSD/SPEED CONTROLLERS SHALL BE SIZED TO MAXIMUM MOTOR OUTPUT

#### VRF / SPLIT SYSTEM SCHEDULE

REFERENCE	MANUFACTURER	MODEL	AREA	SYSTEM	OUTDOOR	TYPE			CAP	CITY				DIMENSION	IS	WEIGHT	SF	PL .		EL	ECTRICAL		COMMENTS
					REFERENCE		TOTAL	SENS	HEAT	FLOW	OA FLOW	ESP	w	Н	D	1 1	dB(A)	@	PHASES	POWER	FULL LOAD	MSSB	1
							(kW)	(kW)	(kW)	(I/s)	(I/s)	(Pa)	(mm)	(mm)	(mm)	(kg)		(m)	(NO.)	(kW)	(A)		
IU-01 OU-01	DAIKIN	FTXS95L RXS95L	LUNCH	S.SPLIT	-	HI-WALL	9.40	6.80	10.50	415 1323	-	-	1200 940	340 990	240 320	23 82	49 55	1	1	3.2	19.5	EDB	IR REMOTE
IU-02 OU-02	DAIKIN	FDYQ100KAV1 RZQ100KV4A	OFFICE	S.SPLIT	-	DUCTED	10.90	9.40	11.80	815 1583	80	100	1478 900	360 1170	899 320	59 99	46 49	1	1	4.0	30	EDB	WALL CONTOLLER
IU-03 OU-03	DAIKIN	FTXS35L RXS35L	MEETING	S.SPLIT	-	HI-WALL	3.50	2.80	4.00	200 600	-	-	800 765	295 550	215 285	23 82	42 49	1	1	0.9	8.8	EDB	IR REMOTE
IU-IT OU-IT	DAIKIN	FTXS25L RXS25L	COMMS	S.SPLIT	-	HI-WALL	2.50	2.33	3.40	192 558	-	=	800 765	295 550	215 285	23 82	40 48	1	1	0.7	8	EDB	IR REMOTE, LOCKED ON COOLING ONLY

- NOTE:

  1. ALL BRANCH SELECTORS AND TERMINAL UNITS SHALL BE PROVIDED WITH ISOLATION VALVES
- 2. THE CONTRACTOR SHALL CALCULATE FINAL REFRIGERANT VOLUME AND PROVIDE LEAK DETECTION ALARM SYSTEMS AS REQUIRED FOR COMPLIANCE WITH AS/NZS 5149.1-2016
- 3. THE CONTRACTOR SHALL CALCULATE FINAL EXTERNAL STATIC PRESSURE AND CONFIRM SPECIFIED UNIT IS ADEQUATE PRIOR TO PROCUREMENT
- 4. THE CONTRACTOR SHALL CONFIRM FINAL NOISE REQUIREMENTS OF EXTERNAL PLANT IS WITHIN SPECIFIED RANGE PRIOR TO PROCUREMENT
- 5. ALL INDOOR AND OUTDOOR UNITS SHALL BE PROVIDED WITH ANTI VIBRATION MOUNTS
- 6. BRANCH BOX ARE TO BE PROVIDED WITH SPARE PORTS FOR FUTURE CONNECTION 7. REFER MECHANICAL SPECIFICATION FOR CONTROLS

#### **GRILLE & LOUVRE SCHEDULE**

REF	MANUFACTURER	MODEL	AREA	TYPE	MAX AIR	MAX	HORIZONTAL THROW (MIN)	NOISE	DIMEN	ISIONS	BOX PLENUM	COMMENT
					FLOW RATE (I/s)	STATIC PRESSURE (Pa)	@ 0,5m/s (m)	(NC)	W (mm)	L (mm)		
S1	HOLYOAKE	ECO-M-150	OFFICES	CEILING CIRCULAR	30	9	0.9	15	Ø269	-	TEØ150	
S2	HOLYOAKE	ECO-M-100	OFFICES	CEILING CIRCULAR	50	13	2.5	13	Ø319	-	TEØ200	
S3	HOLYOAKE	ECO-M-250	OFFICES	CEILING CIRCULAR	85	13	2.6	25	Ø391	-	TEØ250	
S11	HOLYOAKE	CFPP-600-30-350	OFFICES	CEILING SWIRL	250	12	3.6	25	600	600	50mm AL, SE Ø350	
E1	HOLYOAKE	ECO-M-150	TOILETS	CEILING CIRCULAR	30	10	0.5	15	Ø269	-	TEØ150	
E2	HOLYOAKE	ECO-M-200	TOILETS	CEILING CIRCULAR	50	9	0.9	15	Ø319	-	TEØ200	
E3	HOLYOAKE	ECO-M-250	TOILETS	CEILING CIRCULAR	75	10	0.5	15	Ø391	-	TEØ250	
R	HOLYOAKE	EC-125	OFFICES	EGGCRATE	680	5	-	20	600	600	50mm AL, SE	C/W REMOVABLE COVER
T1	HOLYOAKE	EC-125	WC TRANSFER	EGGCRATE	240			40	350	350	50mm AL. SE Ø250	OMAL DEMOVA DUE COVED
- 11	HOLYOAKE	EC-125	WC IRANSFER	EGGORATE	240	8	-	13	300	300	DUMM AL, SE Ø2DU	C/W REMOVABLE COVER
DG1	HOLYOAKE	DG-52	DOOR TRANSFER	DOOR GRILLE	100	15	-	25	350	350		
L1	HOLYOAKE	RLHL	OUTDOOR AIR INTAKE	SOFFIT GRILLE	325	11	-	-	600	300	50mm AL, SE Ø350	C/W REMOVABLE COVER, REMOVABLE FILTER

- 1. THE CONTRACTOR SHALL CONFIRM THE AIR VOLUME, STATIC PRESSURE, THROW AND NOISE LEVEL OF THE SELECTED GRILLE IS WITHIN THE SPECIFIED RANGE PRIOR TO PROCUREMENT
- 2. ALL GRILLES SHALL BE FACTORY POWDER COATED IN COLOUR TO ARCHITECTS SPECIFICATION.
- 3. THE CONTRACTOR SHALL CONFIRM FIXING DETAILS PRIOR TO PROCURMENT.
- 4. THE CONTRACTOR SHALL ARRANGE FOR SAMPLES OF THE GRILLE FOR CLIENT REVIEW IF REQUESTED.
- 5. ALL WEATHER LOUVRES SHALL BE SUPPLIED WITH INSECT SCREENS.

ELE	CTRIC DUCT HE	EATERS	;														
RE	MANUFACTURER	MODEL	SYSTEM SERVED	TYPE		CAPA	CITY			IMENSION	S	WEIGHT		ı	LECTRICAL		COMMENTS
					HEAT	AIR FLOW	AIR ON	AIR OFF	W	Н	L		PHASES	POWER	RUNNING	MSSB	
					(kW)	(L/S)	(°C)	(°C)	MM	MM	MM	(KG)		(kW)	(A)		
EDH-	AVON	CUSTOM	SF-01	DUCT HEATER	3.9	325	6	16	REFER	LAYOUT	800	твс	3	3.9	5.7	EDB	3 STAGE RELAY CONTROL / DIMENSIONS TO BE CONFIRMED BY CONTRACTOR
EDH-2	AVON	CUSTOM	SF-02	DUCT HEATER	2.2	180	6	16	REFER	LAYOUT	800	твс	1	2.2	9.4	0	3 STAGE RELAY CONTROL / DIMENSIONS TO BE CONFIRMED BY CONTRACTOR

- 1. DUCT HEATER INSTALLATION SHALL BE COMPLETE WITH SAFETY CUT OUT, THERMOSTAT AND DOWNSTREAM OF REMOTE TEMPERATURE SENSOR
- 2. DUCT HEATER SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF AS/NZS 3102 & AS 1688.1 &2 3. DUCT HEATER SHALL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATION AND INSTRUCTIONS



AGILE ENGINEERING CONSULTANTS	

**Arthur Adams** 

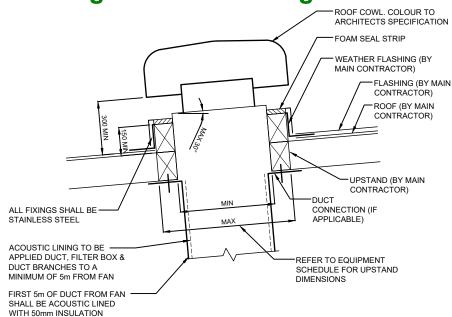
PROPOSED COMMERCIAL DEVELOPMENT 56 ALLENS ROAD, EAST TAMAKI, AUCKLAND MECHANICAL SERVICES

ISSUED FOR		
BUILDING (	CONSENT	
SCALE	DESIGNED	APPROVED
N.T.S.	JW	AV
JOB NUMBER		FIRST ISSUE DATE
JOB NUMBER B010836		FIRST ISSUE DATE
	0.	FIRST ISSUE DATE 24/11/21 REVISION

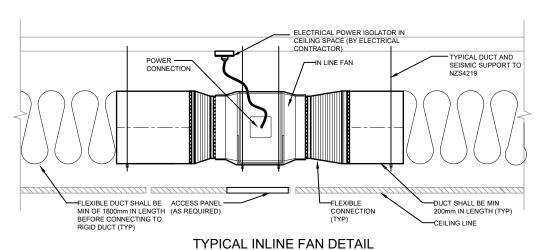
GIB LINING ON H1.2 TIMBEI STRAPPING WITH CPC BETWEEN TIMBER AND

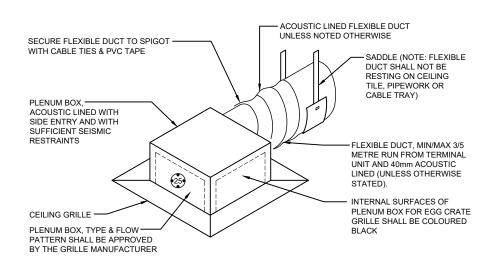
PRECAST PANEL



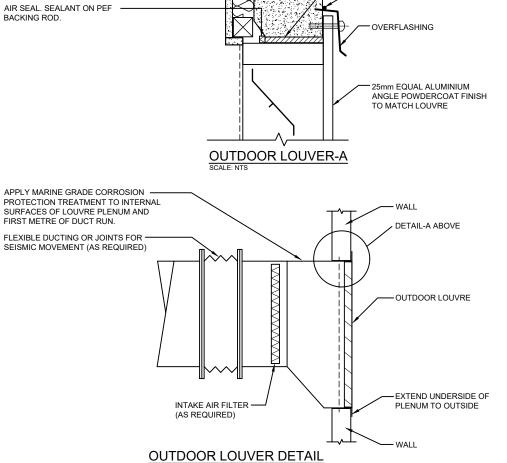


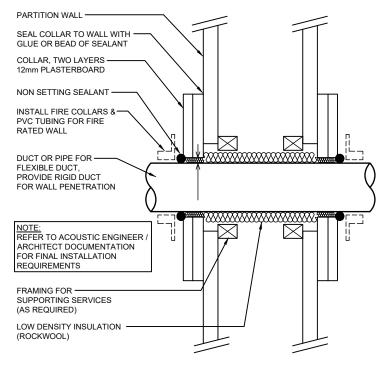
TYPICAL ROOF FAN/ROOF COWL DETAIL





TYPICAL CEILING GRILLE DETAIL





ACOUSTIC INTERNAL WALL PENETRATION (AS REQUIRED)

CONDENSATE DRAIN, MINIMUM FALL SHALL BE 1:100. CONNECTS TO TERMINAL UNIT VIA FLEXIBLE HOSE OR U-TRAP (MINIMUM 100mm DEPTH) IN ACCORDANCE MINIMUM 600mm LONG SUPPLY WITH MANUFACTURER RECOMMENDATION. PLENUM, WITH END CONNECTIONS, VOLUME CONDENSATE DRAIN PIPE SHALL BE THERMALLY INSULATED FIRST THREE METRES FROM EACH DAMPERS (WITH LOCKING TERMINAL UNIT. PROVIDE AIR VENT TO FURTHEST TERMINAL UNIT. QUADRANTS) AND 50mm ACOUSTIC LINING (NON-FIBRE GLASS TYPE) REFRIG. & CHW PIPES, THERMALLY INSULATED (NOTE: REFRIGERANT PIPES TO FLEXIBLE DUCT. MIN/MAX SHALL BE ADEQUATELY SUPPORTED 1/3 METRE RUN FROM TERMINAL UNIT AND 40mm AND SHALL NOT BE RESTING ON CEILING TILE, DUCTWORK OR CABLE TRAY). ACOUSTIC LINED (UNLESS OTHERWISE STATED) -SECURE AND SUPPORT UNIT
AND DUCTING WITH SUFFICIENT FANS AND COILS ACCESS. ENSURE SUFFICIENT ACCESS SEISMIC RESTRAINTS CLEARANCE FOR MAINTENANCE DUCTED TYPE INDOOR UNI -MINIMUM 600mm LONG RETURN PLENUM, WITH END ENTRIES ANTI-VIBRATION MOUNTS AS RECOMMENDED BY THE MANUFACTURER (NON-FIBREGI ASS TYPE) RETURN FILTER ACCESS, SHALL BE ACCESSIBLE FROM BOTH SIDES AND INDOOR UNIT BELOW EXPOSED ROOF SHALL BE CLEARLY LABELLED ENSURE PROVIDED WITH DUCTED RETURN (ACQUISTIC FLEXIBLE DUCT) AND OUTDOOR AIR CONNECTIONS. SUFFICIENT ACCESS CLEARANCE FOR FILTER REPLACEMENT MAX. FACE VELOCITY 2.5m/s

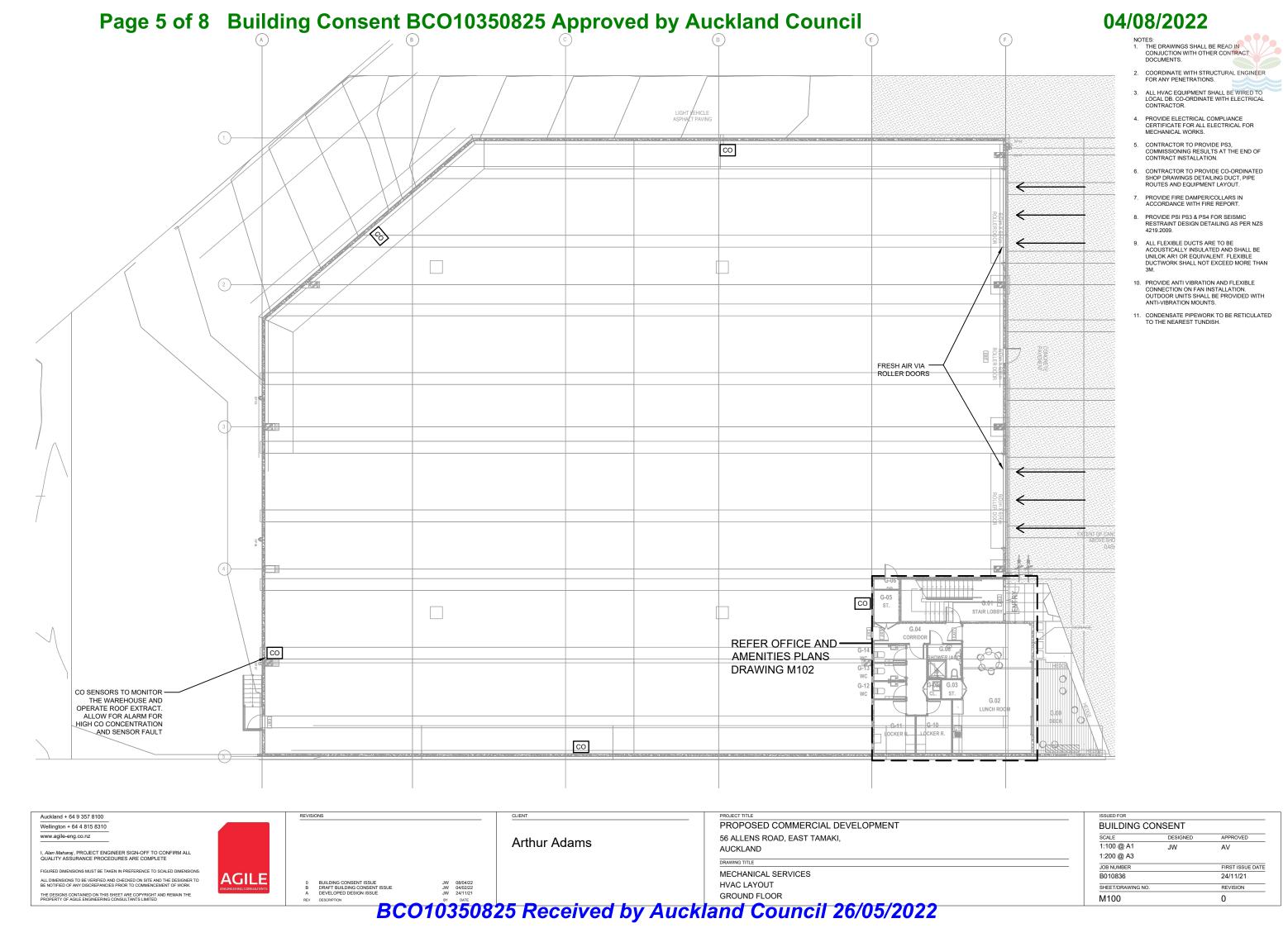
#### **NOTES**

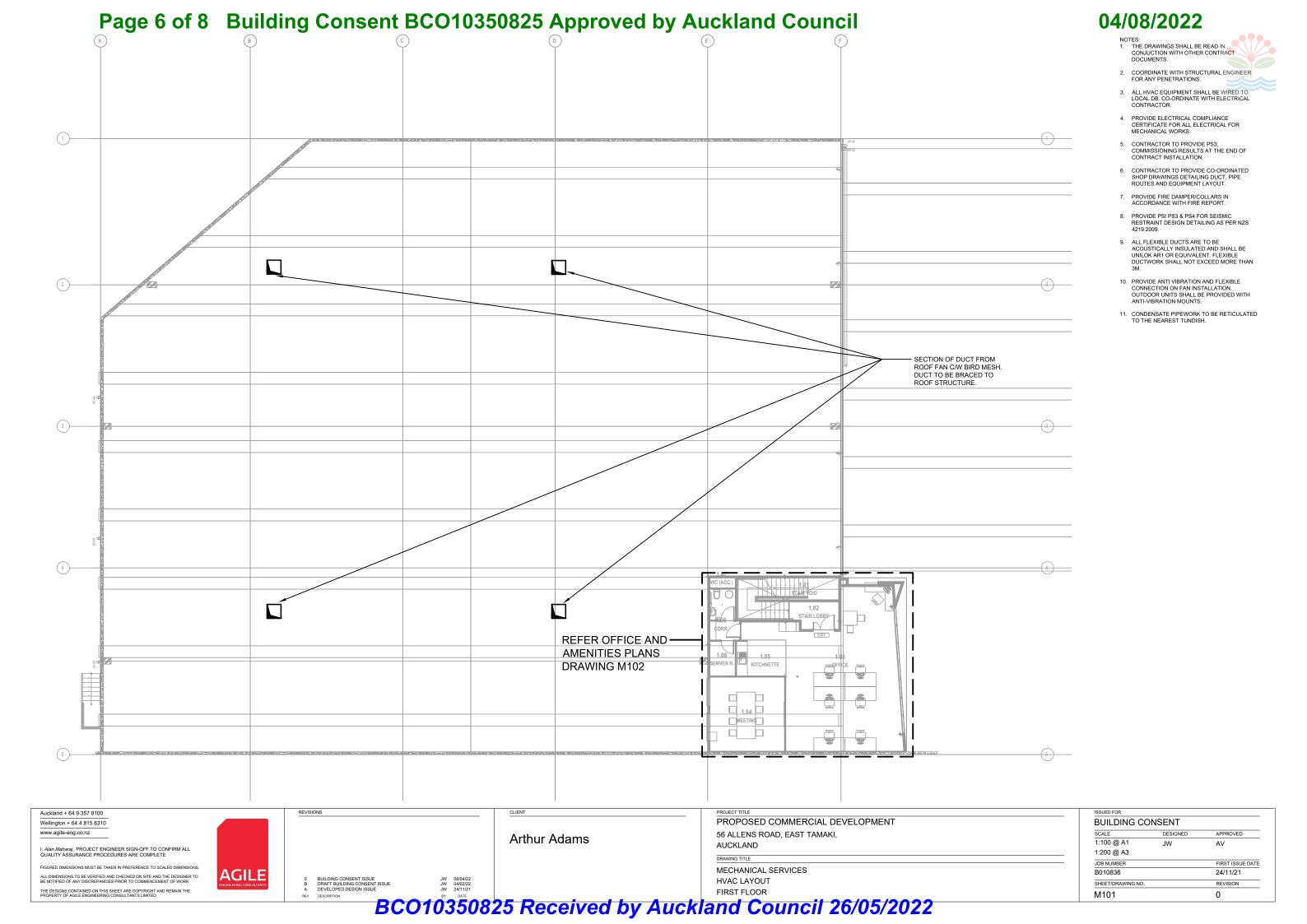
1. EACH UNIT SHALL BE PROVIDED WITH A CEILING ACCESS HATCH TO PROVIDE ACCESS TO UNIT FOR MAINTENANCE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

2. INDOOR UNITS SHALL BE SEISMIC RESTRAINED IN ACCORDANCE WITH NZS4219 AND STRUCTURAL ENGINEERS APPROVAL

## TYPICAL DUCTED AC UNIT DETAIL







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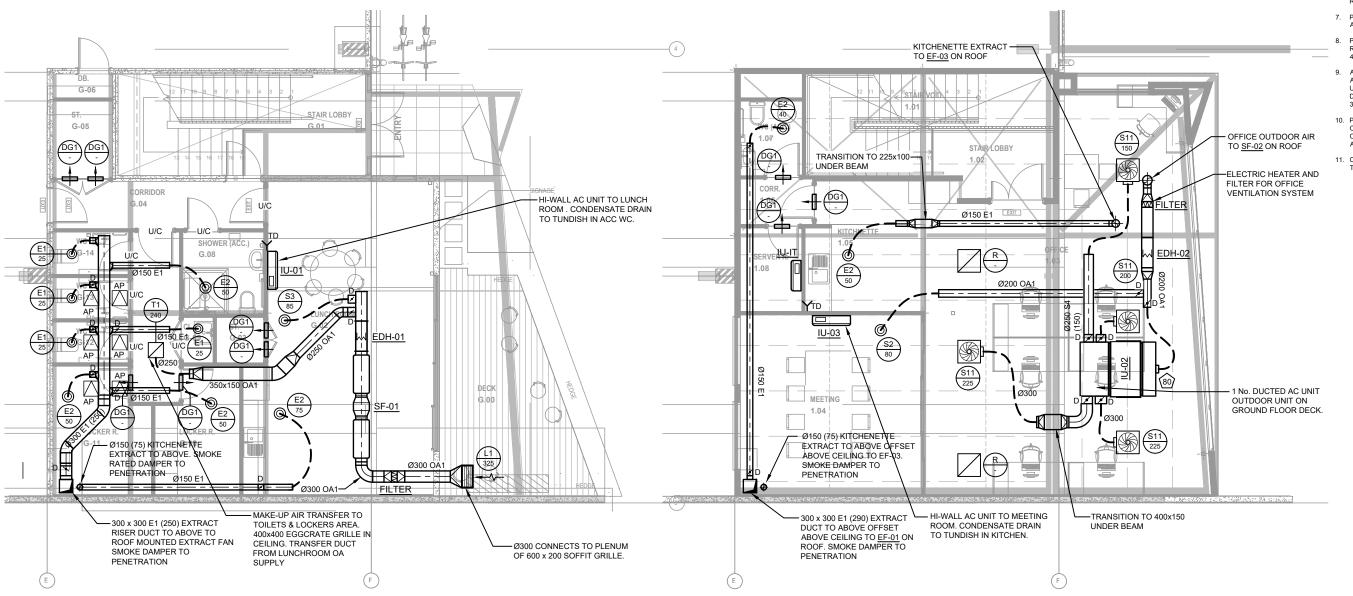
## 04/08/2022

#### NOTES

- THE DRAWINGS SHALL BE READ IN CONJUCTION WITH OTHER CONTRACT DOCUMENTS.
- COORDINATE WITH STRUCTURAL ENGINEER FOR ANY PENETRATIONS.
- ALL HVAC EQUIPMENT SHALL BE WIRED TO LOCAL DB. CO-ORDINATE WITH ELECTRICAL CONTRACTOR.
- PROVIDE ELECTRICAL COMPLIANCE CERTIFICATE FOR ALL ELECTRICAL FOR MECHANICAL WORKS.
- COMMISSIONING RESULTS AT THE END OF CONTRACT INSTALLATION.

5. CONTRACTOR TO PROVIDE PS3.

- SHOP DRAWINGS DETAILING DUCT, PIPE ROUTES AND EQUIPMENT LAYOUT.
- PROVIDE FIRE DAMPER/COLLARS IN ACCORDANCE WITH FIRE REPORT.
- PROVIDE PSI PS3 & PS4 FOR SEISMIC
   RESTRAINT DESIGN DETAILING AS PER NZS
   4219.2009.
- ALL FLEXIBLE DUCTS ARE TO BE ACOUSTICALLY INSULATED AND SHALL BE UNILOK AR1 OR EQUIVALENT. FLEXIBLE DUCTWORK SHALL NOT EXCEED MORE THAN
- PROVIDE ANTI VIBRATION AND FLEXIBLE
   CONNECTION ON FAN INSTALLATION.
   OUTDOOR UNITS SHALL BE PROVIDED WITH
   ANTI VIRDATION MOUNTS.
- 11. CONDENSATE PIPEWORK TO BE RETICULATED TO THE NEAREST TUNDISH.



OFFICES - GROUND FLOOR

OFFICES - FIRST FLOOR





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## 04/08/2022

NOT

- THE DRAWINGS SHALL BE READ IN CONJUCTION WITH OTHER CONTRACT DOCUMENTS.
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- PROVIDE ELECTRICAL COMPLIANCE CERTIFICATE FOR ALL ELECTRICAL FOR MECHANICAL WORKS.
- 5. CONTRACTOR TO PROVIDE PS3, COMMISSIONING RESULTS AT THE END OF CONTRACT INSTALLATION.
- 6. CONTRACTOR TO PROVIDE CO-ORDINATED SHOP DRAWINGS DETAILING DUCT, PIPE ROUTES AND EQUIPMENT LAYOUT.
- PROVIDE FIRE DAMPER/COLLARS IN ACCORDANCE WITH FIRE REPORT
- PROVIDE PSI PS3 & PS4 FOR SEISMIC
   RESTRAINT DESIGN DETAILING AS PER NZS
   4219 2009
- ALL FLEXIBLE DUCTS ARE TO BE ACOUSTICALLY INSULATED AND SHALL BE UNILOK ART OR EQUIVALENT. FLEXIBLE DUCTWORK SHALL NOT EXCEED MORE THAN 3M
- PROVIDE ANTI VIBRATION AND FLEXIBLE
   CONNECTION ON FAN INSTALLATION.
   OUTDOOR UNITS SHALL BE PROVIDED WITH
   ANTI-VIBRATION MOUNTS.
- 11. CONDENSATE PIPEWORK TO BE RETICULATED TO THE NEAREST TUNDISH.

B DRAFT BUILDING CONSENT ISSUE DRAFT BUILDING CONSENT BUILDING