






LEGEND


 FLEXIBLE DUCT


 OUTDOOR CONDENSING UNIT - HORIZONTAL DISCHARGE


 WALL MOUNTED SPLIT AC UNIT


 CEILING MOUNTED HEADER BOX FAN


 WALL MOUNTED KITCHEN EXHAUST FAN

 200x200 EGG CRATE RETURN AIR GRILLE/ EXHAUST AIR GRILLE

 AIR FLOW DIRECTION

 GRILLE TYPE
AIR QUANTITY (L/s)

 EQUIPMENT DESIGNATION
REFER TO SCHEDULE

 FAN CONTROL (WALL MOUNTED AT 1000)
FAN=EXHAUST FAN
SF=SUPPLY FAN

NOTES

- ITEMS SHOWN BOXED ARE ASSOCIATED WORKS.
- ALL DUCTWORK TO COMPLY WITH AS4254-2012 & SMACNA STANDARDS, IN PARTICULAR RESPECT TO JOINTS, CONSTRUCTION, MATERIAL, DIMENSIONS, SUPPORTS, REINFORCEMENTS, INSTALLATION AND ACCESS PANELS.
- DUCT SIZES GIVEN ARE CLEAR INTERNAL DIMENSIONS.
- FLEXIBLE DUCTING

0

- 50l/s

- 150 DIA.

51

- 100l/s

- 200 DIA.

101

- 150l/s

- 250 DIA.

151

- 200l/s

- 300 DIA.

201

- 300l/s

- 350 DIA.

301

- 400l/s

- 400 DIA.

401

- 500l/s

- 450 DIA.

501

- 600l/s

- 500 DIA.
- ALL ROOF MOUNTED EXHAUST FANS AND AIR INTAKES TO BE PROVIDED WITH UV-STABILISED PLASTIC OR FIBREGLASS COWLS
- TOILET EXHAUST DUCTS TO BE UNINSULATED
- DO NOT SCALE DRAWINGS.
- EQUIPMENT SCHEDULES ARE TO BE READ IN CONJUNCTION WITH ALL DRAWINGS.
- THE POSITION OF THE EQUIPMENT IN THE CEILING SPACE SHOWN ON THE DRAWINGS IS APPROXIMATE ONLY. THE EQUIPMENT SHALL BE LOCATED TO SUIT THE CEILING SPACE SET OUT AND DESIGN AND TO ALLOW ALL NECESSARY ACCESS TO THE EQUIPMENT.
- THE EQUIPMENT ELECTRICAL SUPPLY REQUIREMENTS AND RATINGS ARE INDICATIVE ONLY. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO LIAISE WITH THE ELECTRICAL CONTRACTOR ON THE FINAL SELECTED EQUIPMENT ELECTRICAL REQUIREMENTS TO ENSURE THE CORRECT SUPPLY AND PROTECTIVE DEVICES ARE INSTALLED. RCDs SHALL BE PROVIDED ON ELECTRICAL CIRCUITS SERVING AC EQUIPMENT AS PER MANUFACTURER'S INSTRUCTIONS.
- INSTALLATION SHALL STRICTLY COMPLY WITH THE REQUIREMENTS OF THE NCC/NBA 2022 INCLUDING:

-DUCTWORKAND PIPEWORK INSULATION




-TIMESWITCH CONTROL OF AIR CONDITIONING UNITS

-ENERGY EFFICIENCY PERFORMANCE

ABBREVIATIONS

AC	AIR CONDITIONING
CU	CONDENSER UNIT
EA	EXHAUST AIR
EF	EXHAUST FAN
F/A	FROM ABOVE
F/B	FROM BELOW
H/VAC	HEATING, VENTILATION AND AIR CONDITIONING
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
T/A	TO ABOVE
T/B	TO BELOW
TBC	TO BE CONFIRMED
TD	TUNDISH
UNO	UNLESS NOTED OTHERWISE

WORKS BY OTHERS

	SINGLE PHASE ELECTRICAL SUPPLY
	TUNDISH - 30 DIA CONDENSATE DRAIN
	DOOR UNDERCUT BY 25mm

A1 FAN SCHEDULE								
REF	FUNCTION	TYPE	ROOM	AIR FLOW	AIR CHANGES	EXTERNAL STATIC PRESSURE	MOTOR	CONTROL
			AREA	(L/s)	PER HOUR	(Pa)	RPS /kW/ Ph	
A1-TEF-1	PDR	CEILING MOUNTED HEADER BOX FAN	2.4	30	16.7	50	16/0.06/1	LOCAL ON/OFF SWITCH 5min (ADJUSTABLE) RUN-ON TIMER
A1-TEF-2A	BATH	CEILING MOUNTED HEADER BOX FAN	5.6	65	15.5	50	16/0.10/1	LOCAL ON/OFF SWITCH 5min (ADJUSTABLE) RUN-ON TIMER
A1-TEF-2B	BATH	CEILING MOUNTED HEADER BOX FAN	5.6	65	15.5	50	16/0.10/1	LOCAL ON/OFF SWITCH 5min (ADJUSTABLE) RUN-ON TIMER
A1-TEF-3	PDR	CEILING MOUNTED HEADER BOX FAN	2.9	35	16.1	50	16/0.06/1	LOCAL ON/OFF SWITCH 5min (ADJUSTABLE) RUN-ON TIMER
A1-GEF	LAUNDRY	CEILING MOUNTED HEADER BOX FAN	N/A	40	N/A	50	16/0.06/1	LOCAL ON/OFF SWITCH
A1-KTH	KITCHEN	WALL MOUNTED FAN	N/A	100	N/A	10	19/0.03/1	LOCAL ON/OFF SWITCH C/W AUTO CLOSING MECHANISM

A2 FAN SCHEDULE								
REF	FUNCTION	TYPE	ROOM	AIR FLOW	AIR CHANGES	EXTERNAL STATIC PRESSURE	MOTOR	CONTROL
			AREA	(L/s)	PER HOUR	(Pa)	RPS /kW / Ph	
A2-TEF-1	PDR	CEILING MOUNTED HEADER BOX FAN	2.4	30	16.7	50	16 / 0.06 / 1	LOCAL ON/OFF SWITCH 5min (ADJUSTABLE) RUN-ON TIMER
A2-TEF-2A	BATH	CEILING MOUNTED HEADER BOX FAN	5.6	65	15.5	50	16 / 0.10 / 1	LOCAL ON/OFF SWITCH 5min (ADJUSTABLE) RUN-ON TIMER
A2-TEF-2B	BATH	CEILING MOUNTED HEADER BOX FAN	5.6	65	15.5	50	16 / 0.10 / 1	LOCAL ON/OFF SWITCH 5min (ADJUSTABLE) RUN-ON TIMER
A2-TEF-3	PDR	CEILING MOUNTED HEADER BOX FAN	2.9	35	16.1	50	16 / 0.06 / 1	LOCAL ON/OFF SWITCH 5min (ADJUSTABLE) RUN-ON TIMER
A2-GEF	LAUNDRY	CEILING MOUNTED HEADER BOX FAN	N/A	40	N/A	50	16 / 0.06 / 1	LOCAL ON/OFF SWITCH
A2-KTH	KITCHEN	WALL MOUNTED FAN	N/A	100	N/A	10	19 / 0.03 / 1	LOCAL ON/OFF SWITCH C/W AUTO CLOSING MECHANISM

B1 FAN SCHEDULE								
REF	FUNCTION	T YPE	ROOM	AIR FLOW	AIR CHANGES	EXTERNAL STATIC PRESSURE	MOTOR	CONTROL
			AREA	(L/s)	PER HOUR	(Pa)	RPS /kW / Ph	
B1-TEF-1A	BATH	CEILING MOUNTED HEADER BOX FAN	5	57.5	15.3	50	16 / 0.06 / 1	LOCAL ON/OFF SWTCH 5min (ADJUSTABLE) RUN-ON TIMER
B1-TEF-1B	BATH	CEILING MOUNTED HEADER BOX FAN	5	57.5	15.3	50	16 / 0.06 / 1	LOCAL ON/OFF SWTCH 5min (ADJUSTABLE) RUN-ON TIMER
B1-TEF-2	PDR	CEILING MOUNTED HEADER BOX FAN	2.8	35	16.7	50	16 / 0.10 / 1	LOCAL ON/OFF SWTCH 5min (ADJUSTABLE) RUN-ON TIMER
B1-GEF	LAUNDRY	CEILING MOUNTED HEADER BOX FAN	N/A	40	N/A	50	16 / 0.06 / 1	LOCAL ON/OFF SWITCH
B1-KTH	KITCHEN	WALL MOUNTED FAN	N/A	100	N/A	10	19 / 0.03 / 1	LOCAL ON/OFF SWTCH C/W AUTO CLOSING MECHANISM

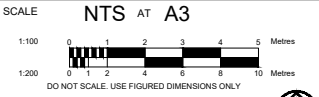
B2 FAN SCHEDULE								
REF	FUNCTION	TYPE	ROOM	AIR FLOW	AIR CHANGES	EXTERNAL ST AT IC PRESSURE	MOTOR	CONTROL
			AREA	(L/s)	PER HOUR	(Pa)	RPS /kW / Ph	
B2-TEF-1A	BATH	CEILING MOUNTED HEADER BOX FAN	5	57.5	15.3	50	16 / 0.06 / 1	LOCAL ON/OFF SIWTC H 5min (ADJUSTABLE) RUN-ON TIMER
B2-TEF-1B	BATH	CEILING MOUNTED HEADER BOX FAN	5	57.5	15.3	50	16 / 0.06 / 1	LOCAL ON/OFF SIWTC H 5min (ADJUSTABLE) RUN-ON TIMER
B2-TEF-2	PDR	CEILING MOUNTED HEADER BOX FAN	2.8	35	16.7	50	16 / 0.10 / 1	LOCAL ON/OFF SIWTC H 5min (ADJUSTABLE) RUN-ON TIMER
B2-GEF	LAUNDRY	CEILING MOUNTED HEADER BOX FAN	N/A	40	N/A	50	16 / 0.06 / 1	LOCAL ON/OFF SWITCH
B2-KTH	KITCHEN	WALL MOUNTED FAN	N/A	100	N/A	10	19 / 0.03 / 1	LOCAL ON/OFF SWITCH C/W AUTO CLOSING MECHANISM

C1 FAN SCHEDULE								
REF	FUNCTION	TYPE	ROOM	AIR FLOW	AIR CHANGES	EXTERNAL ST AT IC PRESSURE	MOTOR	CONT ROL
			AREA	(L/s)	PER HOUR	(Pa)	RPS /kW / Ph	
C1-TEF-1A	BATH	CEILING MOUNTED HEADER BOX FAN	5.4	62.5	15.4	50	16 / 0.06 / 1	LOCAL ON/OFF SIWTC H 5min (ADJUSTABLE) RUN-ON TIMER
C1-TEF-1B	BATH	CEILING MOUNTED HEADER BOX FAN	5.4	62.5	15.4	50	16 / 0.06 / 1	LOCAL ON/OFF SIWTC H 5min (ADJUSTABLE) RUN-ON TIMER
C1-TEF-2	PDR	CEILING MOUNTED HEADER BOX FAN	2.8	35	16.7	50	16 / 0.10 / 1	LOCAL ON/OFF SIWTC H 5min (ADJUSTABLE) RUN-ON TIMER
C1-GEF	LAUNDRY	CEILING MOUNTED HEADER BOX FAN	N/A	40	N/A	50	16 / 0.06 / 1	LOCAL ON/OFF SWITCH
C1-KTH	KIT CHEN	WALL MOUNTED FAN	N/A	100	N/A	10	19 / 0.03 / 1	LOCAL ON/OFF SWITCH C/W AUTO CLOSING MECHANISM

C2 FAN SCHEDULE								
REF	FUNCTION	TYPE	ROOM	AIR FLOW	AIR CHANGES	EXTERNAL ST AT IC PRESSURE	MOTOR	CONTROL
			AREA	(L/s)	PER HOUR	(Pa)	RPS /kW / Ph	
C2-TEF-1A	BATH	CEILING MOUNTED HEADER BOX FAN	5.4	62.5	15.4	50	16 / 0.06 / 1	LOCAL ON/OFF SIWTC H 5min (ADJUSTABLE) RUN-ON TIMER
C2-TEF-1B	BATH	CEILING MOUNTED HEADER BOX FAN	5.4	62.5	15.4	50	16 / 0.06 / 1	LOCAL ON/OFF SIWTC H 5min (ADJUSTABLE) RUN-ON TIMER
C2-TEF-2	PDR	CEILING MOUNTED HEADER BOX FAN	2.8	35	16.7	50	16 / 0.10 / 1	LOCAL ON/OFF SIWTC H 5min (ADJUSTABLE) RUN-ON TIMER
C2-GEF	LAUNDRY	CEILING MOUNTED HEADER BOX FAN	N/A	40	N/A	50	16 / 0.06 / 1	LOCAL ON/OFF SWITCH
C2-KTH	KIT CHEN	WALL MOUNTED FAN	N/A	100	N/A	10	19 / 0.03 / 1	LOCAL ON/OFF SWITC H C/W AUTO CLOSING MECHANISM

C3 FAN SCHEDULE								
REF	FUNCTION	TYPE	ROOM	AIR FLOW	AIR CHANGES	EXTERNAL ST AT IC PRESSURE	MOTOR	CONTROL
			AREA	(L/s)	PER HOUR	(Pa)	RPS /kW / Ph	
C3-TEF-1A	BATH	CEILING MOUNTED HEADER BOX FAN	5.4	62.5	15.4	50	16 / 0.06 / 1	LOCAL ON/OFF SIWTC H 5min (ADJUSTABLE) RUN-ON TIMER
C3-TEF-1B	BATH	CEILING MOUNTED HEADER BOX FAN	5.4	62.5	15.4	50	16 / 0.06 / 1	LOCAL ON/OFF SIWTC H 5min (ADJUSTABLE) RUN-ON TIMER
C3-TEF-2	PDR	CEILING MOUNTED HEADER BOX FAN	2.8	35	16.7	50	16 / 0.10 / 1	LOCAL ON/OFF SIWTC H 5min (ADJUSTABLE) RUN-ON TIMER
C3-GEF	LAUNDRY	CEILING MOUNTED HEADER BOX FAN	N/A	40	N/A	50	16 / 0.06 / 1	LOCAL ON/OFF SWITCH
C3-KTH	KITCHEN	WALL MOUNTED FAN	N/A	100	N/A	10	19 / 0.03 / 1	LOCAL ON/OFF SWITCH C/W AUTO CLOSING MECHANISM

CONSTRUCTION



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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
P1	PRELIMINARY ISSUE	18/04/24
A	TENDER ISSUE	17/05/24
B	TENDER ISSUE	24/05/24
1	CONSTRUCTION ISSUE	03/09/24

CLIENT

NORTH PENINSULA AREA
REGIONAL COUNCIL

BUILDING DESIGNER



PROJECT DESCRIPTION

COMMUNITY HOUSING

BUILDING SERVICES ENGINEERS



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DESIGNER	RM	DRAWN BY	OB	CHECKED BY	RM
APPROVED	RM	RPEQ		DATE	03/09/24

DISCIPLINE

MECHANICAL SERVICES

DRAWING TITLE

LEGEND, NOTES
AND SCHEDULES

PROJECT NUMBER	DRAWING NUMBER	REVISION
DE230925	M001	1