

EQUIPMENT SCHEDULE

BASEMENT FLOOR VENTILATING FANS

UNIT DESIGNATION	AREA SERVED	QTY.	AIR FLOW (CFM)	TYPE	TOTAL STATIC PRESSURE (Pa)	OUTLET VELOCITY (m/s)	MOTOR/MAX POWER INPUT (kW)	MOTOR TYPE	MOTOR EFFICIENCY (%)	ELECTRICAL CHARACTERISTICS			REMARKS
										VOLTS	PHASE	HERTZ	
VO3-EF-6	BASEMENT PUMP ROOM	1	8,800	IN-LINE FAN	25	-	0.20	BELT DRIVE	-	380	3	60	EXISTING UNDER PHASE 1 & VO3, WITH COMPLETE ACCESSORIES
VO3-JF-1	PARKING AREA	10	4,300	INDUCED JET FAN	65	-	0.056	DIRECT DRIVE	-	220	1	60	EXISTING UNDER PHASE 1 & VO3, WITH COMPLETE ACCESSORIES
VO3-EF-7	BASEMENT PARKING AREA	1	34,000	IN-LINE FAN	-	-	-	BELT DRIVE	-	380	3	60	EXISTING UNDER PHASE 1 & VO3, WITH COMPLETE ACCESSORIES
EF-1	FILE ROOM, AUX, EE ROOM	2	100	CEILING CASSETTE	65	-	0.10	DIRECT DRIVE	-	220	1	60	NEW UNIT IS KDK, NICOTRA, SYSTEMVENT BRAND WITH COMPLETE ACCESSORIES

GROUND FLOOR VENTILATING FANS

UNIT DESIGNATION	AREA SERVED	QTY.	AIR FLOW (CFM)	TYPE	TOTAL STATIC PRESSURE (Pa)	OUTLET VELOCITY (m/s)	MOTOR/MAX POWER INPUT (kW)	MOTOR TYPE	MOTOR EFFICIENCY (%)	ELECTRICAL CHARACTERISTICS			REMARKS
										VOLTS	PHASE	HERTZ	
TEF-1	GF TOILET	1	2,100	AXIAL FAN	1	-	1	DIRECT DRIVE	-	220	1	60	EXISTING UNDER PHASE 1 BASE BUILDING DESIGN
EF-1	FILE ROOM, AUX, EE ROOM GF	3	100	CEILING CASSETTE	65	-	0.10	DIRECT DRIVE	-	220	1	60	UNIT IS KDK, NICOTRA, SYSTEMVAIRE BRAND WITH COMPLETE ACCESSORIES
EF-2	STORAGE GF	1	150	CEILING CASSETTE	65	-	0.10	DIRECT DRIVE	-	220	1	60	
EF-3	MAIN EE ROOM GF	1	16,000	IN-LINE CENTRIFUGAL FAN CABINET TYPE	400	9.62	7.50	BELT DRIVEN	86.5	380	3	60	NEW UNIT IS SIMILAR TO NIAGARA/NICOTRA, KRUGER, SYSTEMVENT BRAND WITH COMPLETE ACCESSORIES
EF-4	TRANSFORMER GF	1	10,000	IN-LINE CENTRIFUGAL FAN CABINET TYPE	350	9.39	4.0	BELT DRIVEN	86.5	380	3	60	
EF-5	GENSET GF	1	5,508	AXIAL FLOW - DIRECT BELT DRIVEN	263	16.0	2.20	BELT DRIVEN	86.5	380	3	60	UNDER PHASE 1 BASE BUILDING DESIGN VO3
FAF-1	GENSET GF	1	10,200	AXIAL FLOW - DIRECT BELT DRIVEN	263	16.0	4.0	BELT DRIVEN	86.5	380	3	60	
FAF-2	MAIN EE ROOM GF	1	16,000	IN-LINE CENTRIFUGAL FAN CABINET TYPE	400	9.62	7.50	BELT DRIVEN	86.5	380	3	60	UNIT IS SIMILAR TO NIAGARA/NICOTRA, KRUGER, SYSTEMVENT BRAND
KEF-1	COMMERCIAL SPACE 1	1	8,800	IN-LINE CENTRIFUGAL FAN CABINET TYPE	350	8.26	4.0	BELT DRIVEN	86.5	380	3	60	
KEF-2	COMMERCIAL SPACE 2	1	6,500	IN-LINE CENTRIFUGAL FAN CABINET TYPE	350	7.50	3.0	BELT DRIVEN	86.5	380	3	60	
KFAF-1	COMMERCIAL SPACE 1	1	7,100	IN-LINE CENTRIFUGAL FAN CABINET TYPE	350	8.46	3.0	BELT DRIVEN	86.5	380	3	60	
KFAF-2	COMMERCIAL SPACE 2	1	5,200	IN-LINE CENTRIFUGAL FAN CABINET TYPE	350	7.87	2.20	BELT DRIVEN	86.5	380	3	60	
WEF-1	GENSET	3	11,200	WALL PROPELLER FAN INDUSTRIAL TYPE	180	-	2.2	BELT DRIVEN	86.5	380	3	60	W/ GRAVITY DAMPER UNIT IS SIMILAR TO NICOTRA, KRUGER, SYSTEMVENT BRAND

2ND TO 6TH FLOOR VENTILATING FANS

UNIT DESIGNATION	AREA SERVED	QTY.	AIR FLOW (CFM)	TYPE	TOTAL STATIC PRESSURE (Pa)	OUTLET VELOCITY (m/s)	MOTOR/MAX POWER INPUT (kW)	MOTOR TYPE	MOTOR EFFICIENCY (%)	ELECTRICAL CHARACTERISTICS			REMARKS
										VOLTS	PHASE	HERTZ	
TEF-2	2ND FLOOR TOILET	5	350	AXIAL FLOW	29	-	0.08	DIRECT DRIVE	-	380	3	60	EXISTING UNDER PHASE 1 VO3, WITH COMPLETE ACCESSORIES
EF-1	FILE ROOM, AUX, EE ROOM	10	100	CEILING CASSETTE	65	-	0.10	DIRECT DRIVE	-	220	1	60	UNIT IS KDK, NICOTRA, SYSTEMVAIRE BRAND WITH COMPLETE ACCESSORIES

8TH FLOOR VENTILATING FANS

UNIT DESIGNATION	AREA SERVED	QTY.	AIR FLOW (CFM)	TYPE	TOTAL STATIC PRESSURE (Pa)	OUTLET VELOCITY (m/s)	MOTOR/MAX POWER INPUT (kW)	MOTOR TYPE	MOTOR EFFICIENCY (%)	ELECTRICAL CHARACTERISTICS			REMARKS
										VOLTS	PHASE	HERTZ	
ADD-RH-1	PANTRY	9	200	RANGE HOOD	85	-	0.20	DIRECT DRIVE	-	220	1	60	UNIT IS BASE ON LA-GERMANIA, BROAD & Z LINE BRAND
ADD-EFP-1	PANTRY	4	100	CEILING CASSETTE	65	-	0.10	DIRECT DRIVE	-	220	1	60	UNIT IS BASE ON KDK BRAND

7TH TO 24TH FLOOR VENTILATING FANS - EXISTING UNIT

UNIT DESIGNATION	AREA SERVED	QTY.	AIR FLOW (CFM)	TYPE	TOTAL STATIC PRESSURE (Pa)	OUTLET VELOCITY (m/s)	MOTOR/MAX POWER INPUT (kW)	MOTOR TYPE	MOTOR EFFICIENCY (%)	ELECTRICAL CHARACTERISTICS			REMARKS
										VOLTS	PHASE	HERTZ	
TEF-1	COMMON TOILET	17	2100	AXIAL FAN	30	-	0.08	DIRECT DRIVE	-	380	3	60	UNIT IS EXISTING UNDER PHASE 1 BASE BUILDING DESIGN

VENTILATING FANS

UNIT DESIGNATION	AREA SERVED	QTY.	AIR FLOW (CFM)	TYPE	TOTAL STATIC PRESSURE (Pa)	OUTLET VELOCITY (m/s)	MOTOR/MAX POWER INPUT (kW)	MOTOR TYPE	MOTOR EFFICIENCY (%)	ELECTRICAL CHARACTERISTICS			REMARKS
										VOLTS	PHASE	HERTZ	
ADD-KEF-1	KITCHEN	1	1400	CENTRIFUGAL INLINE FAN CABINET TYPE	150	7.34	0.50	BELT DRIVE	-	220	1	60	NEW UNIT IS KRUGER, NICOTRA, SYSTEMVENT BRAND WITH COMPLETE ACCESSORIES
ADD-KFAF-1	KITCHEN	1	1120	CENTRIFUGAL INLINE FAN CABINET TYPE	150	7.34	0.50	BELT DRIVE	-	220	1	60	
ADD-EF-1	PREPARATION AREA	1	100	CEILING CASSETTE	65	-	0.10	DIRECT DRIVE	-	220	1	60	
ADD-EF-2	STORAGE 7F	1	150	CEILING CASSETTE	65	-	0.10	DIRECT DRIVE	-	220	1	60	

ROOF DECK VENTILATING FANS

UNIT DESIGNATION	AREA SERVED	QTY.	AIR FLOW (CFM)	TYPE	TOTAL STATIC PRESSURE (Pa)	OUTLET VELOCITY (m/s)	MOTOR/MAX POWER INPUT (kW)	MOTOR TYPE	MOTOR EFFICIENCY (%)	ELECTRICAL CHARACTERISTICS			REMARKS
										VOLTS	PHASE	HERTZ	
SEF-1	7TH FLOOR TO 24TH FLOOR	1	45,000	DIOW CENTRIFUGAL FAN BACKWARD CURVED	750	13.25	30.0	BELT DRIVE	94.1	380	3	60	NEW EQUIPMENT UNDER PHASE 2 DESIGN, UNIT IS BASE ON KRUGER, NICOTRA & NIAGARA WITH COMPLETE ACCESSORIES
SPF-1	GROUND FLOOR 24TH FLOOR	2	16,000	DIOW CENTRIFUGAL FAN BACKWARD CURVED	250	-	4.17	BELT DRIVE	91.7	380	3	60	UNDER PHASE 1 DESIGN BASE BUILDING, COMPLETE WITH ACCESSORIES
EFP-1	ELEVATOR FIREMANS LIFT	1	16,000	DIOW CENTRIFUGAL FAN BACKWARD CURVED	250	-	4.17	BELT DRIVE	91.7	380	3	60	

GROUND FLOOR ENERGY RECOVERY VENTILATOR (ERV)

UNIT	QTY.	AIR FLOW (CFM)		TYPE	E.S.P. (Pa)	TEMP. EFF. (%)	ENTHALPY EFFICIENCY (%)		POWER INPUT (KW)	ELECTRICAL DATA			REMARKS
		SUPPLY	EXHAUST				COOLING	HEATING		VOLT	PHASE	HERTZ	
ERV-1	1	380	310	HEAT EXCHANGER	100	77.0	68.1	69.4	0.30	220	1	60	NEW EQUIPMENT UNDER PHASE 2 DESIGN, UNIT IS BARCOOL-AIR

ROOF DECK ENERGY RECOVERY VENTILATOR (ERV) WITH HEAT WHEEL EQUIPMENT SCHEDULE:

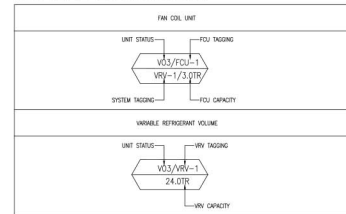
Mark	Location	Quantity	Area Serve	Supply Air Fan Section							Return Air Section					Outdoor Air Section				Exhaust Air Fan Section				Energy Recovery Wheel Section				Electrical Data			Operating Weight (Kg)	Remarks	
				Airflow (cfm)	DB (°C)	WB (°C)	%RH	Filter Rating	Control	ESP (Pa.)	Fan Motor (Kw.)	Airflow (cfm)	DB (°C)	WB (°C)	Filter	%RH	Airflow (cfm)	DB (°C)	WB (°C)	%RH	Airflow (cfm)	Control	ESP (Pa.)	Fan Motor (Kw.)	% Sensible Eff.	% Latent Eff.	Wheel Rotation Speed (RPM)	Drive Motor (Kw)	V	Ph			Hz
ERV-1	ROOF DECK	1	7th Floor to 24th Floor	33,766	29.1	22.3	55.2	MERV-13	Variable Speed Drive	750	37.5	29,791	26.0	19.0	MERV-8	51.1	33,766	35.0	29.0	63.8	29,791	Variable Speed Drive	750	37.5	77.5	74.1	20-25	0.37	380	3	60	3,653	NEW EQUIPMENT UNDER PHASE 2 DESIGN, UNIT IS BASE ON BARCOOL-AIR
ERV-2	ROOF DECK	1	7th Floor to 24th Floor	35,086	29.1	22.3	55.2	MERV-13	Variable Speed Drive	750	45.0	25,442	26.0	19.0	MERV-8	51.1	35,086	35.0	29.0	63.8	25,442	Variable Speed Drive	750	30.0	77.5	74.1	20-25	0.37	380	3	60	3,547	

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF R.A. 9164, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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TAGGING DESCRIPTION:



LEGEND AND SYMBOLS/ABBREVIATION:

SYMBOL	DESCRIPTION
	4-WAY CEILING CASSETTE TYPE FREEBLOW
	2-WAY CEILING CASSETTE TYPE FREEBLOW
	WALL MOUNTED TYPE FREEBLOW
	CEILING SUSPENDED TYPE FREEBLOW
	NEW REFRIGERANT PIPE
	NEW RETURN JOINT
	NEW REFRIGERANT PIPE RISER
	NEW RETURN JOINT
	EXISTING REFRIGERANT PIPE
	EXISTING RETURN JOINT
	EXISTING EXHAUST AIR FAN
	EXISTING EXHAUST AIR DUCT
	EXISTING EXHAUST AIR GRILLE
	EXISTING FLEXIBLE EXHAUST AIR DUCT
	NEW FRESH AIR GRILLE
	NEW FRESH AIR DUCT RISER
	NEW SMOKE CEILING EXHAUST AIR GRILLE
	NEW SMOKE CEILING EXHAUST BELLMOUTH GRILLE
	MOTORIZED VOLUME DAMPER
	VOLUME DAMPER
	NEW FRESH AND EXHAUST AIR DUCT

ABBREVIATION	DESCRIPTION
SQM	SQUARE METER
CFM	CUBIC FEET PER MINUTE
MM	MILLIMETER
KW	KILOWATT
KG	KILOGRAM
DA (Ø)	DIAMETER
QTY.	QUANTITY
TSP	TOTAL STATIC PRESSURE
Pa	PASCAL
V/PH/Hz	VOLTS/PHASE/HERTZ
FCU	FAN COIL UNIT
PAO	PREPRESSURIZATION AIR DUCT
FAD	FRESH AIR DUCT
SAD	SUPPLY AIR DUCT
RAD	RETURN AIR DUCT
PAO	PREPRESSURIZATION AIR DUCT
SCD	SUPPLY CEILING DIFFUSER
EAD	EXHAUST AIR DUCT
LD	LOUVER DOOR