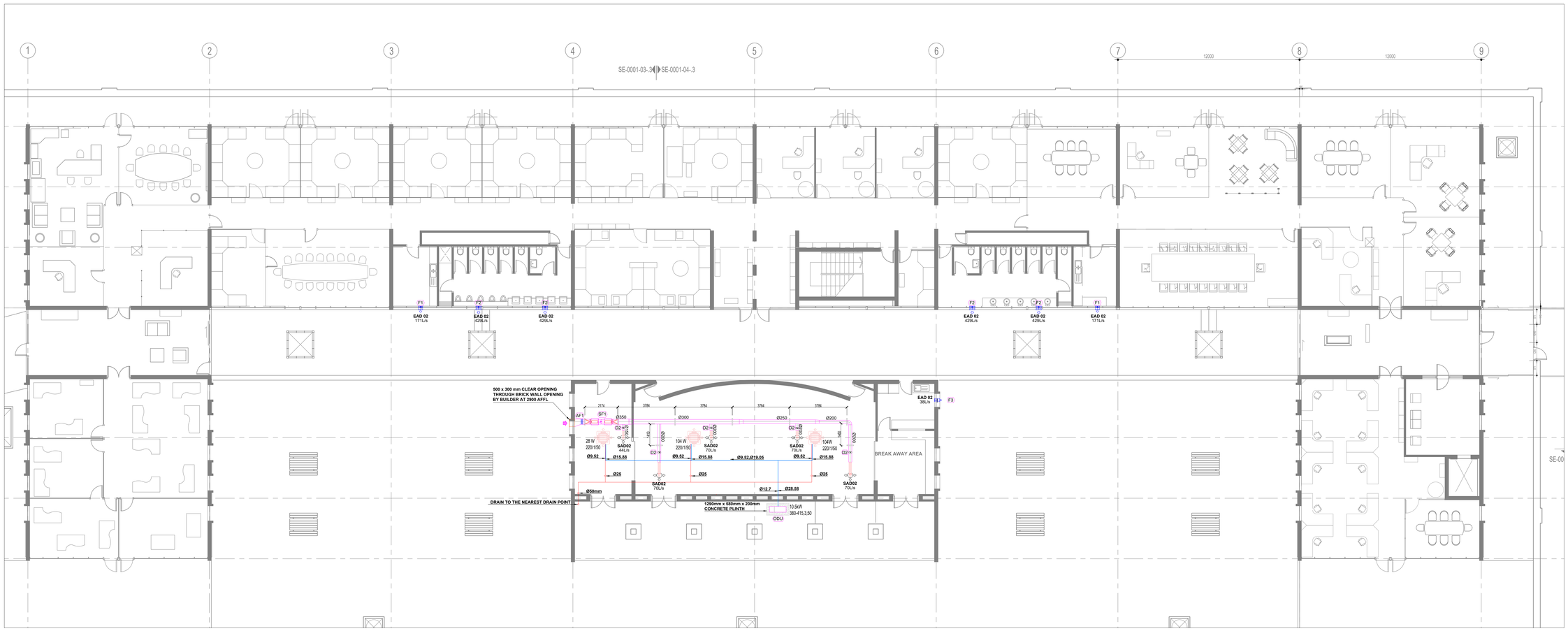
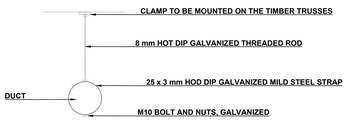


FLOOR PLAN: HVAC FLOOR PLAN LAYOUT

SCALE 1:100

DUCT SUPPORT DETAILS (FRONT VIEW)

SCALE 1:20



MECHANICAL / BUILDER'S WORK :

AC CONTRACTOR MUST MARK UP ON SITE PRIOR TO INSTALLATION FOR CORING OF HOLES FOR HVAC DUCT, WALL LOUVRE INSTALLATION, FAN INSTALLATION AND ELECTRICAL CONDUIT.

USE FIGURED DIMENSIONS IN PREFERENCE TO SCALING. CONTRACTOR TO VERIFY ALL DIMENSIONS AND LEVELS PRIOR TO THE COMMENCEMENT OF ANY WORK BEING CARRIED OUT AND ALL DISCREPANCIES TO BE REPORTED TO PROJECT MANAGER.

NOTE 1. REMOVE AND REPLACE EXISTING EXTRACTOR FAN WITH NEW EXTRACTOR FAN.

NOTE 2. REMOVE AND REPLACE EXISTING EXTRACTOR FAN WITH NEW EXTRACTOR FAN

NOTE 3. RETURN EXTRACTOR FANS TO CLIENT.

NOTE 4. WHERE EXISTING FANS ARE BEING REPLACED, THE VENTILATION RATES HAVE NOT BEEN CALCULATED

NOTE 5. THE BUILDER TO DO ALL OPENNING REQUIRED FOR THE HVAC SYSTEMS INSTALLATIONS INCLUDING CLADDING AND FINAL SMOOTHING.

NOTE 6. REMOVE EXISTING VENTILATION AND AIR CONDITIONING INDOOR AND OUTDOOR UNITS

ELECTRICAL WORK:

ELECTRICAL SUPPLY TO HVAC EQUIPMENT SHALL BE THROUGH A SUITABLE ISOLATOR/POWER SUPPLY POINT BY ELECTRICAL ENGINEER.

FINAL DISTRIBUTION FROM THE ISOLATOR/POWER SUPPLY POINT, INCLUDING CONTROL PANEL, BOARDS, WIRING, CONTROLLERS ETC, SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.

ALL ELECTRICAL INSTALLATION WORK UNDERTAKEN BY THE HVAC CONTRACTOR SHALL BE DONE BY A QUALIFIED ELECTRICIAN / MASTER ELECTRICIAN AND A CERTIFICATE OF COMPLIANCE SHALL BE PROVIDED ON COMPLETION OF WORK.

ELECTRICAL EQUIPMENT SHALL BE EQUAL OR SIMILAR APPROVED TO MERLIN GERIN.

	SYMBOLS
	DAMPER
	FRESH AIR DUCT
	FLEXIBLE DUCT

FAN SCHEDULE

ITEM	DESCRIPTION		ITEM	DESCRIPTION	
F2	LOCATION	: WALL MOUNTED	F1	LOCATION	: WALL MOUNTED
	INPUT POWER (MAX)	: 85W		INPUT POWER (MAX)	: 41 W
	HOLE DIM	: 324mm		HOLE DIM	: 257mm
	NO. OFF	: 4		NO. OFF	: 2

SUPPLY AIR FAN SCHEDULE

ITEM	DESCRIPTION	AIR FLOW RATE	NO. OFF	POWER INPUT	POWER SUPPLY	LOCATION
		L/s	NO	W	(Ø/V/Hz)	CEILING VOID
SF1	SUPPLY FAN	710	1	145	(230/1/50)	CEILING VOID

AIR TERMINAL SCHEDULE

ITEM	DESCRIPTION	DIMENSIONS	AIR FLOW RATE	NO. OFF	LOCATION
		MM	L/s	No.	
AF1	AIR FILTER	400 x 400	210	3	CEILING VOID
D3	BALANCING DAMPER	150	44	1	CEILING VOID
D4	BALANCING DAMPER	200	70	4	CEILING VOID
WL3	WEATHER LOUVERS	300 x 500	-	1	CEILING VOID
SAD01	SUPPLY DIFFUSER	150	65	1	CEILING VOID
SAD02	SUPPLY DIFFUSER	200	81	4	CEILING VOID

AIR CONDITIONING

ITEM	DESCRIPTION	WEIGHT	DIMENSIONS (W x H x D)	COOLING	HEATING	AIR FLOW RATE	QUANTITY	POWER INPUT	POWER SUPPLY	LOCATION	PIPE CONNECTIONS (MM)		
		Kg	MM	kW	kW	M^3/min	NO	W	(Ø/V/Hz)		LIQUID	GAS	DRAIN ID
ODU	OUTDOOR UNIT	157	1090 x 1625 x 380	33.6	36.7	190	1	10500	(380-415/3/50	OUTSIDE	12,5	28.9	
4-WC1	4-WAY CASSETE	15	700 x 22x 700	6.0	6.8	12	1	28	(220-240/1/50	CEILING VOID	9.52	15.88	25.0
4-WC2	4-WAY CASSETE	25.6	840 x 288x 840	12.3	13.8	30	2	104	(220-240/1/50)	CEILING VOID	9.52	15.88	25.0

WINDOW EXTRACTOR FAN SCHEDULE

ITEM	DESCRIPTION	
F3	LOCATION	: KITCHEN WINDOW
	FLOW RATE	: 38 L/s
	POWER INPUT	: 23 W
	POWER SUPPLY	: (240v/1ph/50Hz)
	QUANTITY	: 1

DRAWING NO.	DRAWING DESCRIPTION

REFERENCE DRAWINGS

NOTES
1. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND LEVELS ON THE SITE AND NOTIFY THE NEC SUPERVISOR OF ANY VARIATIONS BEFORE CONSTRUCTION.
3. ALL LEVELS ARE IN METERS TO MEAN SEA LEVEL

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
DA	ISSUED FOR TENDER	C.K.K	P.V	CK.K	19/09/2025

REVISIONS

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PRIVATE OPERATOR LOGO

CONSULTANTS ENGINEERS LOGO

CONTRACTOR / CONSULTANT

TITLE	NAME	SIGN	DATE
DRAWN	.		. . .
CHECKED	.		. . .
DESIGNED	.		. . .
CHECKED	.		. . .

PR.ENG. / PR.TECH./PR. ARCH

NAME	XX	DATE
SIGNATURE		. . .
REG. NUMBER	XXXXX	
TITLE		
SCALE :	XX	

TRANSNET NATIONAL PORTS AUTHORITY

TITLE	NAME	SIGN	DATE
DRAWN	C.K KGATWE		19 09 25
CHECKED	P VILAKAZI		19 09 25
DESIGNED	C.K KGATWE		19 09 25
CHECKED	P VILAKAZI		19 09 25

PR.ENG. / PR.TECH./PR. ARCH

NAME :	P VILAKAZI	DATE
SIGNATURE		19 09 25
REG. NUMBER	2019300435	
TITLE	SENIOR ENGINEER	
PAPER SIZE :		A0

TRANSNET DRG. NO. NH63A0000 - 000 - 00

REV. 00

Transnet National Ports Authority

TRANSNET SOC Ltd : REG No. 1990/000090/30
237 MAHATMA GANDHI ROAD, POINT
DURBAN
4001
TEL. 031 361 1696

PROJECT / AREA / ASSET / SUBJECT/DRAWING TITLE

PORT OF DURBAN

REFURBISHMENT OF QUEENS WAREHOUSE
HVAC LAYOUT
SECOND FLOOR PLAN

PROJECT DRG. NO. XDNE037 - 1 - 500 - M - LA - 0003-01

REV. DA