DRAWING INDEX

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GENERAL NOTES:

1. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. DO NOT SCALE FOR EQUIPMENT, DEVICE OR MATERIAL LOCATIONS. IT IS INTENDED THAT A COMPLETE HVAC SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. DOCUMENTS SHALL CONFORM WITH ALL PARAMETERS GIVEN IN THESE DOCUMENTS. ANY ITEMS ARE LABOR REQUIRED FOR A COMPLETE AND SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE CONTRACT. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING DUCT, METAL AND PIPING SHOP DRAWINGS. EACH TRADE SHALL PREPARE ITS OWN FABRICATION AND INSTALLATION DRAWINGS FOR COORDINATION WITH ALL OTHER DISCIPLINES.
2. ALL VRF, FCU/AHU/DX SYSTEM SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS. REFRIGERANT PIPING LAYOUT AND SIZE SHALL BE APPROVED BY CERTIFIED CONTRACTOR.
3. ALL VRF REFRIGERANT LINE SHALL NOT EXCEED 190M MAXIMUM LENGTH FROM THE FARTHEST UNIT. UNIT SHALL BE VERIFIED TO SUPPLIER TO ENSURE EFFICIENT INSTALLATION.
4. ALL JOINTS FOR CONDENSATE DRAIN PIPE (CDP) CONNECTIONS TO PLUMBING STUB-OUTS OR CDP LINES SHALL BE PART OF MECHANICAL WORK.
5. ALL DUCT DIMENSIONS INDICATED ARE INSIDE CLEAR DIMENSIONS IN MM., EXCLUDING INTERNAL LINING & EXTERNAL INSULATION THICKNESS, UNLESS OTHERWISE INDICATED.
6. PROVIDE CEILING ACCESS TO EQUIPMENT, DAMPER, VALVES AND OTHER SERVICES LOCATED ABOVE CEILING. COORDINATE WITH ARCHITECTS FOR EXACT LOCATIONS.
7. ALL CEILING TYP DUCTS AND PIPES SHALL NOT, IN ANYWAY, PENETRATE STRUCTURAL RIBS OR BEAMS UNLESS OTHERWISE AUTHORIZED.
8. ALL MOTOR CONTROLLERS FOR MECHANICAL WORKS SHALL BE SUPPLIED BY MECHANICAL CONTRACTOR.
9. UNLESS OTHERWISE NOTED, ALL EXTERNAL LOUVERS SHALL BE WEATHERPROOF TYPE WITH 12mm STAINLESS WIRE MESH SUPPLIED AND INSTALLED BY OTHERS (BUILDER'S WORK).
10. UNLESS OTHERWISE NOTED, THE FREE AREA OF ALL EXTERNAL LOUVERS SHALL BE A MINIMUM OF 50% OF GROSS AREA.
11. EMERGENCY STOP OR DISCONNECT SWITCHES SHALL BE INSTALLED ADJACENT TO EACH MOTOR.
12. VOLUME CONTROL DAMPER SHALL BE PROVIDED FOR SUPPLY AIR DUCT OF EACH BRANCH, WHETHER SHOWN OR NOT SHOWN ON PLANS.
13. IN ADDITION TO THOSE SHOWN ON THE DRAWINGS THE CONTRACTOR SHALL SUPPLY AND INSTALL FIRE DAMPERS FOR AIR DUCTS PASSING THROUGH ALL FIRE RATED WALLS / SLABS IN ORDER TO FULFILL THE REQUIREMENTS OF LOCAL AUTHORITY. ALSO REFER TO FIRE LIFE SAFETY PLANS.
14. ADEQUATE ACCESS PANELS SHOULD BE PROVIDED ON AIR DUCTS ADJACENT TO FIRE DAMPERS FOR INSPECTION AND MAINTENANCE.
15. THE CONTRACTOR SHALL PROVIDE AND SELECT SILENCERS FOR ALL FAN AT SUCTION AND DISCHARGE SIDE CONNECTIONS TO ACHIEVE THE SPECIFIED ROOM AND EXTERNAL ACOUSTIC LEVELS AS REQUIRED. COORDINATE WITH THE ACOUSTIC AND/OR CONTRACTOR.
16. ALL AIR GRILLES / LOUVERS SHALL BE MADE OF ALUMINUM UNLESS OTHERWISE SPECIFIED. THE COLOR & SURFACE FINISHING OF THE GRILLES / LOUVERS SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL BEFORE MATERIAL ORDERING. UNLESS OTHERWISE SPECIFIED, COLOR FINISH SHALL BE IN BAKED ENAMEL PAINT.
17. ALL ANTI-VIBRATION MOUNTS FOR EQUIPMENT AND PIPE WORK SHALL BE OF SEISMIC SPRING TYPE. UNLESS OTHERWISE SHOWN ON DRAWINGS.
18. FOR PIPES, SLEEVES AND DUCTS PASSING THROUGH FIRE BARRIER, THE GAP BETWEEN THE PIPES AND ITS SLEEVES, AND THE GAP BETWEEN THE DUCTS AND FIRE BARRIERS MUST BE FIRMLY SEALED WITH FIRESTOP MATERIALS HAVING A PERIOD OF FIRE RESISTANCE EQUAL TO THE FIRE BARRIERS. DETAILS OF DUCTS AND PIPES THROUGH WALL AND FLOOR SHALL COMPLY WITH U.L. STANDARD AND REQUIREMENTS.
19. WHERE DUCT REQUIRING INSULATION PASSES THROUGH A FIRE BARRIER AND IS PROVIDED WITH A FIRE DAMPER, THE EXTERNAL INSULATION MUST HAVE A PERIOD OF FIRE RESISTANCE EQUAL TO THE BARRIERS.
20. ALL DUCT ELBOWS MUST BE FITTED WITH TURNING VANES TO SMACNA STANDARD.
21. SIZE OF GRILLES AND DIFFUSERS SHOWN ARE BASIC SIZE UNLESS OTHERWISE SPECIFIED.
22. SIZE OF ALL BRANCH DUCTS TO GRILLES, LOUVERS OR DIFFUSERS SHALL BE THE SAME OF THE NECK SIZE OF THE RESPECTIVE GRILLES LOUVERS OR DIFFUSERS UNLESS OTHERWISE SPECIFIED.
23. ALL GRILLES AND DIFFUSERS SHALL BE INSTALLED WITH OPPOSED BLADE VOLUME CONTROL DAMPERS OPERABLE FROM THE GRILLE/DIFFUSER FACE.
24. IN THE ABSENCE OF ANY OTHER REQUIREMENT NOT FOUND IN THE PGNE CODE, THE MATERIALS, CONSTRUCTION AND INSTALLATION OF THE DUCTWORKS SHALL COMPLY WITH THE REQUIREMENT OF SMACNA OR ASHRAE.
25. SUPPLY AIR DUCTS DOWNSTREAM OF FCU'S ARE TO BE INTERNALLY LINED WITH ACOUSTIC MATERIALS UP TO THE FIRST BRANCH OR UP TO A MINIMUM OF 2.5m WHICHEVER IS LARGER. ALL ACOUSTIC MATERIALS ARE TO BE NON-COMBUSTIBLE THAT ACCEPTABLE TO FIRE SAFETY DEPARTMENT AND AS CODE OF PRACTICE.
26. ALL EQUIPMENT, DUCTWORKS AND OTHER ACCESSORIES INSTALLED OUTDOOR SHALL BE WEATHERPROOFED AND PROTECTED.
27. COORDINATE AND REFER TO ARCHITECTURAL CEILING PLANS AND FINAL FIT & E LAYOUT FOR EXACT LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES. COORDINATE EXACT LOCATION OF SLOTS, GRILLES, REGISTERS, AND DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLANS. IF A DISCREPANCY FROM IS NOT SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS, PREPARE A DRAWING AND PRESENT IT TO THE ARCHITECT FOR HIS REVISION AND/OR APPROVAL.
28. MINIMUM DUCTWORK LEVEL AND AS MUCH AS POSSIBLE UNLESS OTHERWISE NOTED. TRANSITION RECTANGULAR DUCTWORK ON THE TOP AND AT THE SIDES. ALL DUCT TRANSITIONS FROM SQUARE TO ROUND SHALL BE SMOOTH SQUARE TO ROUND TRANSITIONS. OPEN-IN FITTINGS AT THE END OF CAPPED DUCTS ARE NOT ACCEPTABLE.
29. ALL EQUIPMENT, PIPING, CONDUIT OR DUCT PENETRING OF DUCTWORK, VISIBLE THROUGH SLOTS, GRILLES, REGISTERS OR DIFFUSERS IN FINISHED AREAS, SHALL BE PAINTED FLAT BLACK.
30. ALL OPEN ENDED DUCTS SHALL BE DELIVERED/INSTALLED, SCREENED AND REINFORCED WITH 37.5mm x 37.5mm x 3.5mm GALVANIZED EQUI ANGLES BOLTED, SCREWED OR RIVETED 1200mm C/C (EXCEPT GRAVITY) ALL AROUND THE EXISTING PERIMETER OF THE DUCTS.
31. MOTORIZED THERMOSTATS, VALVES PROVIDED ON PLANS AT 1500mm AFF UNLESS OTHERWISE NOTED. SEE THE ARCHITECTURAL AND MOTOR DRAWINGS AS WELL AS THE MECHANICAL DRAWINGS FOR THE COORDINATED LOCATIONS. WHERE THERE IS A CONFLICT OF LOCATIONS AMONG THE DRAWINGS, NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
32. ALL BRANCH DUCTWORK SHALL BE THE SAME SIZE AS THE DIFFUSER CONNECTION SERVED UNLESS OTHERWISE NOTED.
33. ALL DIFFUSERS INSTALLED IN LAY-IN CEILINGS SHALL BE 4-WAY BLOW UNLESS OTHERWISE NOTED. ADJUST ALL DIFFUSERS IN CORRIDORS OR WITHIN 300mm OF A WALL TO PROVIDE 3-WAY OR 2-WAY BLOW AWAY FROM OR PARALLEL TO WALLS.
34. ALL WIRING IN THE CEILING PLENUM SHALL BE PLENUM RATED CABLE FOR WIRE-TO OR BE INSTALLED IN METAL CONDUIT.
35. ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES LOCATED IN INACCESSIBLE CEILINGS SHALL HAVE FACE OPERABLE DAMPERS TO ALLOW AIR BALANCING OF THE SYSTEM AFTER THE CEILING IS IN PLACE.
36. ISOLATE ALL SUPPLY AND RETURN AIR DUCTWORK.
37. ALL TERMINAL UNITS, FCU'S, VALVES, PIPES AND DAMPERS ABOVE CEILING SHALL BE ACCESSIBLE. COORDINATE ALL ACCESS PANELS IN CEILING OR WALLS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND INTERIOR DRAWINGS FOR PROPER LOCATION. NO ACCESS PANELS ARE ALLOWED IN PUBLIC SPACES WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT.
38. FOR ALL EQUIPMENT, DUCTWORK, PIPING AND APPURTENANCES EXPOSED TO AN OUTDOOR ENVIRONMENT, SPECIAL CARE SHALL BE TAKEN TO ENSURE THAT THE UNIT CASING, MOTORS, VALVES AND OTHER APPURTENANCES ARE PROPERLY PROTECTED & SPECIFIED. PROVIDE EITHER AN EPOXY COATING, STAINLESS STEEL MATERIALS OR OTHER SIMILAR WEATHERPROOFING PROTECTION.
39. THE CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL EQUIPMENT INDICATED ON DRAWINGS INCLUDING KITCHEN AND ANY EQUIPMENT FURNISHED BY OWNER. FINAL CONNECTION SHALL INCLUDE, BUT NOT BE LIMITED TO ANY ADAPTERS, SUPPLIES, SHUTOFF VALVES, AND PRESSURE REGULATION VALVES REQUIRED.
40. THE SYSTEM AIR DUCT BRANCH DUCTS SERVING EACH FAN COIL UNIT SHALL BE PROVIDED WITH VOLUME DAMPER WHETHER SHOWN OR NOT SHOWN ON DRAWINGS.
41. ALL FANS, FCU'S, AHU OTHER AIR DISTRIBUTION EQUIPMENT DISCHARGING INTO COMMON DUCTS, INSERT OR HORIZONTAL SHALL BE PROVIDED WITH BACKDRAFT DAMPERS, WHETHER SHOWN OR NOT SHOWN ON DRAWINGS.
42. AFTER SUBMITTAL APPROVALS AND PRIOR TO ORDERING OF ANY EQUIPMENT OR ACCESSORIES, OR BEFORE FABRICATION AND/OR ERECTION OF PIPING, DUCTS, AND ANY DEVICES/COMPONENTS, THE CONTRACTOR SHALL ENSURE THAT EVERYTHING HAS BEEN VERIFIED AT SITE AND COORDINATED WITH ALL TRADES (OTHER TRADES AS TO THE CONSTRUCTABILITY AND MAINTAINABILITY OF THE EQUIPMENT AND DEVICES). IF FOR ANY REASON, CONFLICT ARISE DUE TO CONTRACTOR'S FAILURE TO FOLLOW THE ABOVE OR HIS LACK OF DUE DILIGENCE, ALL WORKS AS NECESSITATED SHALL BE PERFORMED BY THE CONTRACTOR WITHOUT ADDITIONAL COST CHANGE ORDER.
43. DUCT CUTS WITH CORROSIVE OR ANY INSULATE MATERIAL SUCH AS RUBBER, MUST BE PROVIDED ESPECIALLY IN AREAS WHERE WALLS OR CEILING ARE ISOLATED FROM THE REST OF MAIN BUILDING STRUCTURE. THE SAME SHALL APPLY FOR SURFACES PASSING THRU TO SUBC SPACE.
44. ALL INSTALLATION WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.
45. ALL CONTRACTORS ARE ADVISED TO VISIT AND SURVEY THE PLACE OF INSTALLATION.
46. ALL MATERIALS SHALL BE NEW AND CLEAN.
47. ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE.
48. AS GENERAL REFER TO MECHANICAL PLANS FOR QUANTITY OF AC & VENTILATION GRILLES AND DIFFUSERS FOR REFERENCE PURPOSES REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATION OF GRILLES.
49. ALL CEILING MOUNTED OR CEILING HANGED EQUIPMENT MUST BE PROVIDED WITH VIBRATION ISOLATOR TO PREVENT MECHANICAL NOISE TRANSFER.
50. ALL DUCT SUPPLY & RETURN MUST BE LINED WITH ADEQUATIVE ACOUSTIC LINER INSIDE THE SHEETS TO ABSORB AIR FLOW AS WELL AS ANY MECHANICAL OR TRANSFER SOUND.
51. ALL EXTERNAL LOUVER SHALL BE STORM TYPE TO PREVENT WATER INTRUSION.
52. HANG UNDERNEATH AT 24/7 SHOULD HAVE NECESSARY SPARE PARTS TO AVOID LONG DOWN TIME.
53. ALL PIPING AND DUCTING LOCATED INSIDE CRITICAL ROOMS (UPS, MCB, SERVER, ETC.) SHOULD BE WORKABLE/ RELOCATED.
54. ALL EQUIPMENT LOCATED IN FIXED CEILING SHALL HAVE ACCESS PANEL.
55. ALL FCU/AHU OPERATING AT 7% SHOULD HAVE AUTO CHANGE OVER.
56. ALL INSULATION MATERIAL (FOR DUCTING & PIPES, ETC.) MUST BE FM APPROVE.
57. COORDINATE WITH PNO IN ANY INSTALLATION THAT AFFECT EITHER TENANT PLANS AND WOULD REQUIRE TEMPORARY SHUTDOWN OF POWER.
58. PIPE HANGERS, DUCT HANGERS, UNINSTALLED PIPING AND OTHER FERROUS METAL WORK THAT HAVE NOT RECEIVED FACTORY PRIMERS SHALL BE THOROUGHLY CLEAN AND GIVEN TWO (2) COATS OF RUST PREVENTIVE PAINT AND FINAL COAT OF ENAMEL PAINT. ALL PIPES SHOULD BE SUPPORTED WITH HANGER OR BRACKETS AND INDEPENDENT FROM CEILING, LIGHTING FIXTURES AND DUCT SUPPORT.
59. ALL NON MECHANICAL EQUIPMENT SHALL BE PROPERLY ISOLATED FROM THE BUILDING STRUCTURE, OR STANDARD SPRING TYPE VIBRATION ISOLATOR.
60. ALL INSULATED PIPE AND DUCTS EXPOSED TO WEATHER SHALL BE PROVIDED WITH ALUMINUM CLADDING #28.
61. ALL FCU CONDENSATE DRAIN PIPES SHALL BE PROVIDED WITH THE NECESSARY P-TRAPS AND TO BE DISCHARGE TO THE NEAREST A/C DRAIN FROM THE COOLING DRAIN PAN, INSULATED WITH 6 VAPOR BARRIER POLYETHYLENE TAPE.
62. USE OF FLEXIBLE DUCTS SHALL NOT EXCEED 0.5m TO PREVENT AIRFLOW LOSSES.
63. ALL AIR CONDITIONING DUCTS SHALL BE INSULATED WITH 25mm Thick PHYSICALLY CROSS-LINKED POLYOLEFIN INSULATED WITH REINFORCED ALUMINUM FOIL VAPOR BARRIER ON ONE SIDE. DUCTS INSTALLED OUTSIDE AIR CONDITIONED SPACES SHALL BE 50mm.
64. ALL GRILLES AND DIFFUSERS SHALL BE FABRICATED FROM G.A. 22 (0.8) SHEETS PAINTED IN ACCORDANCE WITH TECHNICAL SPECS. OF STANDARD ENGINEERING PRACTICE.
65. EXHAUST DUCTS SHALL BE FABRICATED FROM G.A. 24 (0.6) SHEETS AND MANUFACTURED AS PER SMACNA STANDARDS.
66. INSTALLED SUB MOTORS FOR ALL MECHANICAL AHUS/FANS UNITS COMPATIBLE WITH THE BUILDING EMS.
67. RELOCATION OF FCU HORIZONTAL UNITS SHALL BE DONE BY THE BASE BUILD CONTRACTOR TO AVOID INTERNITY ISSUES.
68. CHECK CLEARANCE OF ALL INSTALLATIONS FOR MAINTENANCE PURPOSES.

NOTES ON PIPING INSTALLATION:

1. REFRIGERANT PIPES SHALL BE INTERNALLY CLEANED BY SWABBING WITH CLEAN COTTON CLOTH TO REMOVES ALL DUST, BURRS, AND OTHER MISCELLANEOUS DIRT.
2. ANY SOLDERING JOINTS, A STREAM OF DRY NITROGEN GAS SHOULD BE PASSED THRU PIPES TO PREVENT OXIDATION DEPOSITS INSIDE.
3. FITTINGS:
   A. USE STANDARD LONG RADIUS COPPER ELBOWS, REDUCERS, ETC. DO NOT USE FIELD-FORMED ELBOWS, REDUCER ETC.
   B. JOINTS BETWEEN PIPES SHOULD BE THRU STANDARD COPPER COUPLING OR FORMED FITTING MADE BY BRAZING OR SILVERING. THE PIPE END TO BE ABLE TO RECEIVE THE STANDARD PIPE SOCKETS WOULD NOT BE ALLOWED.
   C. JOINTS TO SCREWED ACCESSORIES SUCH AS EXPANSION VALVES, FILTER DRIER, ETC. SHALL BE MADE WITH STANDARD FLARES.
4. THE COMPLETED PIPING INSTALLATION SHOULD BE LEAK TESTED BY SUBJECTING THE SAME (BOTH LIQUID AND SUCTION LINE) TO A PRESSURE OF 2100KPa USING DRY NITROGEN GAS. THIS PRESSURE SHOULD BE LEFT FOR 42 HOURS AND IF THERE IS NO NOTICEABLE REDUCTION IN PRESSURE WITHIN THE PERIOD, THE NITROGEN CHARGE SHALL BE RELEASED FOR THE EQUIPMENT CONNECTION. IF THERE IS NOTICEABLE IN THE ECU PRESSURE, LEAK SHOULD BE LOCATED AND REPAIRED.
5. PROPERLY SIZED PIPING SHOULD BE SECURELY CAPPED AT BOTH END AND WITH HOLDING CHARGED AS STATED IN ITEM 4 ABOVE, WHILE WAITING FOR FINAL CONNECTION TO EQUIPMENT. INSULATE SUCTION PIPING ONLY AFTER PROPER LEAK TESTING.
6. REFRIGERANT PIPE SIZE SHALL BE AS PER MANUFACTURER'S RECOMMENDATION ENSURE WORKABILITY OF A/C UNITS GIVEN BY THE ACTUAL LENGTH OF REFRIGERANT PIPE RUNS.

FLEXIBLE DUCT SCHEDULE

DIAMETER, mm	AIR VOLUME, CFM
150	0-139
200	140-229
250	230-445
290	445-670
300	450-680

ABBREVIATIONS

ACCU	AIR-COOLED CONDENSING UNIT	L/A / LPS	LITERS PER SECOND
ACAH	AIR-CONDITIONING AND MECHANICAL VENTILATION	MVD	MOTORIZED VOLUME DAMPER
AV	AIR VENTILATION	MFDD	MOTORIZED SMOKE FIRE DAMPER
BOD	BOTTOM OF DUCT	NTS	NOT TO SCALE
CDP	CONDENSATE DRAIN PIPE	PG	PASCALS
CDS	CONDENSATE DRAIN STACK	POC	POINT OF CONNECTION
DDC	DIRECT DIGITAL CONTROL	POD	POINT OF DISCONNECTION
DMD	DUCT MOUNTED DEHUMIDIFIER	RA	RETURN AIR
EA	EXHAUST AIR	RAD	RETURN AIR DUCT
EAD	EXHAUST AIR DUCT	RAG	RETURN AIR GRILLE
EAG	EXHAUST AIR GRILLE	RP	REFRIGERANT PIPE
EAL	EXHAUST AIR LOUVER	SA	SUPPLY AIR
ESP	EXTERNAL STATIC PRESSURE	SAD	SUPPLY AIR DUCT
FCU	FAN COIL UNIT	SDD	SUPPLY CEILING DIFFUSER
FD	FIRE DAMPER	SLD	SUPPLY LINEAR DIFFUSERS
FFL	FINISHED FLOOR LEVEL	TAD	TRANSFER AIR DUCT
F/A	FROM ABOVE	TAG	TRANSFER AIR GRILLE
F/B	FROM BELOW	T/A	TO ABOVE
FA	FRESH AIR	T/D	TO DESIGN
FAD	FRESH AIR DUCT	TEAD	TOILET EXHAUST AIR DUCT
FAG	FRESH AIR GRILLE	TEAG	TOILET EXHAUST AIR GRILLE
FAL	FRESH AIR LOUVER	TF	TRANSFER FAN
GEF	GENERAL EXHAUST FAN	VD	VOLUME CONTROL DAMPER
HP	HORSE POWER	VRF	VARIABLE REFRIGERANT SYSTEM
KW	KILOWATT	W	WATTS
LMCP	LOCAL CONTROL PANEL		

LEGEND & SYMBOLS

SYMBOLS	DESCRIPTION
	OUTDOOR REFRIGERANT OUTDOOR UNITS
	PRECISION AIR-CONDITIONING UNIT
	ENERGY RECOVERY VENTILATOR/UNITS
	FAN COIL UNIT (4-WAY CEILING CASSETTE)
	FIRE DAMPER
	VOLUME CONTROL DAMPER
	MOTORIZED DAMPER AND FIRE DAMPER
	SQUARE TO ROUND TRANSITION DUCT

LEGEND & SYMBOLS

SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	GSAMPLE DUCT		DOOR LOUVER / DOOR LOUVER/GRILLE AIR FLOW DIRECTION INDICATED (BY ROUTER)
	GSAMPLE PIPE		
	EQUIPMENT DESIGNATION		CEILING MOUNTED CASSETTE (4-WAY) FAN
AP	ACCESS PANEL		
	AIR PURIFIER		REFRIGERANT PIPES
	SUPPLY / FRESH AIR DUCT RISER		UNIMBLE REFRIGERANT AC FITTINGS
	RETURN OR EXHAUST DUCT UP		CONTROL WIRE
	FRESH / SUPPLY AIR DUCT DOWN		CONDENSATE DRAIN PIPE
	EXHAUST / RETURN AIR DUCT DOWN		CAPPED PIPE
	SINGLE LINE RISER DUCT		PIPE RISER DOWN
	DUCT WITH ACOUSTIC LINING		PIPE RISER UP
	DOUBLE LINE DUCT		LOCAL MOTOR CONTROL PANEL
	FIRE RATED DUCT		DIFFERENTIAL PRESSURE TRANSMITTER
	CONCENTRIC DUCT REDUCER		FLOW METER
	ECCENTRIC DUCT REDUCER		PRESSURE GAUGE
	EXISTING FAN COIL UNIT RELOCATED (4-WAY CEILING CASSETTE)		FLOW SENSOR
			WALL MOUNTED THERMOSTAT

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT Philippines, Inc.

ENGINEER: [signature] — PROFESSIONAL MECHANICAL ENGINEER

PROJECT TITLE: PROPOSED PEZA BIC OFFICE FITOUT

LOCATION: BONIFACIO HIGH STREET, BONIFACIO GLOBAL CITY, TAGUIG CITY, METRO MANILA, PHILIPPINES

OWNER: PHILIPPINE ECONOMIC ZONE AUTHORITY — TERESO O. PANGA, DIRECTOR GENERAL - PEZA

SHEET CONTENTS: MECHANICAL SERVICES DRAWING INDEX, GENERAL NOTES, ABBREVIATIONS AND LEGEND & SYMBOLS

ISSUE	PURPOSE	DATE		
				FOR CONSTRUCTION DRAWINGS

SHEET NO.: M0-01

PROJECT NO.: MP2504

EQUIPMENT SCHEDULE

PRECISION AIR CONDITIONING UNIT - DX TYPE (NEW)

INDOOR UNIT																		OUTDOOR UNIT								
UNIT DESIGNATION	QTY.	AREA(S) / ZONE SERVED	LOCATION	TYPE	SUPPLY AIR FLOW RATES(L/s)	COOLING COIL PERFORMANCE DATA				HUMIDIFIER CAPACITY (kg/hr)	FAN / BLOWER PERFORMANCE DATA			MOTOR SIZE (kW)	ELECTRICAL DATA			DESIGNATION	QTY	LOCATION	COOLING CAPACITY, KW	ELECTRICAL REQ'T, kW	ELECTRICAL DATA			REMARKS
						TOTAL COOLING CAPACITY (kW)	SENSIBLE COOLING CAPACITY (kW)	ENT. AIR DB / WB TEMP. (°C/°C)	LVG. AIR DB / WB TEMP. (°C/°C)		TYPE	NO. OF FANS	EXTERNAL STATIC PRESSURE (Pa)		VOLTS	PHASE	HERTZ						PH	VOLTS	HERTZ	
FACU-SF-01 FACU-SF-02	1	MIS / ICE DATA CENTER	5TH FLOOR	UP BLAST (NON RAISED FLOOR RETURN)	3450	40.3	40.3	22.8/7.09	22.8/7.09	5	BCHAW	2	800	2.9	400	3	60	FACU-ACCU-SF-01	1	ROOFDECK	40.2	3.65	400	3	60	1. 2 DUAL COMPRESSOR 2. 5 HP FAN 3. 4 TO 48 CONNECTED TO GMG 4. 2 WITH HUMIDITY CONTROL / SENSOR

VARIABLE REFRIGERANT AIR CONDITIONING UNITS: (NEW)

INDOOR UNIT													OUTDOOR UNIT									
UNIT DESIGNATION	QTY.	AREA(S)/ ZONE SERVED	LOCATION	TYPE	SELECTED TOTAL COOLING CAPACITY (KW)	SELECTED SENSIBLE COOLING CAPACITY (KW)	SELECTED AIR FLOW (L/S)	ESP (Pa)	ELECTRICAL CHARACTERISTICS				REMARKS	UNIT DESIGNATION	QTY.	LOCATION	COOLING CAPACITY KW	COOLING CAPACITY TR	CONDENSER ENTERING AIR TEMP. (°C)	TOTAL POWER INPUT (kW)	ELECTRICAL CHARACTERISTICS			REMARKS
									FAN MOTOR INPUT (Kw)	V	P	H									V	P	H	
FCU-SF-05-03A	1	BUREAU OF IMMIGRATION/DOJ - OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU	ACCU-SF-05-01	1	ROOFDECK	33.5	9.55	35	9.02	400	3	60	1. DAIKIN BRAND 2. VRV IV Series or Equivalent
FCU-SF-05-04 FCU-SF-05-04C	2	SHARED PANTRY	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-SF-05-02 FCU-SF-05-02E	3	BUREAU OF CUSTOMS - OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-SF-05-03F	1	5 PAX MEETING ROOM	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-SF-05-03B FCU-SF-05-03H	2	ZONE 8CR - OFFICE / RECEIVING AND SORTING AREA	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-SF-05-03A	1	DENTAL CLINIC	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU	ACCU-SF-05-02	1	ROOFDECK	28	7.96	35	6.88	400	3	60	1. DAIKIN BRAND 2. VRV IV Series or Equivalent
FCU-SF-05-03B	1	N NURSING ROOM	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-SF-05-05C FCU-SF-05-05D	2	COMMISSION ON AUDIT	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-SF-05-06A	1	SHARED PANTRY	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-SF-05-06C	1	LACTATION ROOM	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-7F-05-03A	1	10 PAX MEETING ROOM	7TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU	ACCU-7F-05-01	1	ROOFDECK	33.5	9.55	35	9.02	400	3	60	1. DAIKIN BRAND 2. VRV IV Series or Equivalent
FCU-7F-05-06B	1	8 PAX MEETING ROOM (LEFT - NCAA CLIENT MEETING AREA)	7TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-7F-05-03C	1	8 PAX MEETING ROOM (RIGHT - NCAA CLIENT MEETING AREA)	7TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-7F-05-05D, FCU-7F-05-05E	1	CORPORATE PLANNING DEPARTMENT - OFFICE	7TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-7F-05-05F	1	ECO-ZONE AND INDUSTRY DEVELOPMENT DEPARTMENT - OFFICE	7TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-7F-05-05G	1	OCEAN POLICY AND PLANNING - OFFICE	7TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-7F-05-06H	1	SHARED PANTRY	7TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-8F-05-03A	1	10 PAX CONFERENCE ROOM	8TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU	ACCU-8F-05-01	1	ROOFDECK	33.5	9.55	35	9.02	400	3	60	1. DAIKIN BRAND 2. VRV IV Series or Equivalent
FCU-8F-05-03B	1	14 PAX EXAMROOM	8TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-8F-05-03C, FCU-8F-05-03D	2	GENERAL ADMIN SERVICES - OFFICE	8TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-8F-05-03E, FCU-8F-05-03F	2	SHARED PANTRY	8TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-8F-05-03G, FCU-8F-05-03H	2	EXAMINATION ROOM (LOBBY)	8TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-9F-05-03A	1	BUSINESS CENTER	9TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-9F-05-03B	1	RECEIVING AREA	9TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-9F-05-03C, FCU-9F-05-03D	2	SHARED PANTRY	9TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU	ACCU-9F-05-02	1	ROOFDECK	28	7.96	35	6.88	400	3	60	1. DAIKIN BRAND 2. VRV IV Series or Equivalent
FCU-9F-05-03E, FCU-9F-05-03F	2	BUDGET AND TREASURY DEPARTMENT - OFFICE	9TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-10F-05-03A	1	ENTERPRISE REGULATION AND SUPPORT SERVICES - OFFICE	10TH FLOOR	4-WAY CEILING CASSETTE TYPE	2.8	2.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU	ACCU-10F-05-01	1	ROOFDECK	28	6.55	35	6.52	400	3	60	1. DAIKIN BRAND 2. VRV IV S Series or Equivalent
FCU-10F-05-03B	1	ENTERPRISE ASSISTANCE GROUP - OFFICE	10TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-10F-05C, FCU-10F-05D	2	SHARED PANTRY	10TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-12F-05-03A	1	EXAMITS WAITING AREA	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU	ACCU-12F-05-01	1	ROOFDECK	11.2	3.29	35	2.68	230	1	60	1. DAIKIN BRAND 2. VRV IV S Series or Equivalent
FCU-12F-05-03B	1	LEGAL AFFAIRS GROUP	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-12F-05-03A	1	BOARDROOM	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU	ACCU-12F-05-01	1	ROOFDECK	28	7.96	35	6.88	400	3	60	1. DAIKIN BRAND 2. VRV IV Series or Equivalent
FCU-12F-05-03B, FCU-12F-05-03C	2	EXECUTIVE LOUNGE	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-12F-05-03D	1	HALL OF FLAGS	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-12F-05-03E	1	EXECUTIVE PANTRY	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-12F-05-03F	1	CHIEF OF STAFF - OFFICE	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									
FCU-12F-05-03G	1	AV ROOM	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.050	230	1	60	1. ADDITIONAL UNIT (MODEL SAME AS FCU); 2. CONNECTED TO 5 EW ACCU									

APPROVED FOR CONSTRUCTION

ArkiNovus
30 EF AVENUE, EDF VILLAGE,
LAS PIÑAS CITY,
METROMANILA, PHILIPPINES 1750

MEINHARDT
Meinhardt Philippines, Inc.
20TH FLOOR CITYPLAZA ROCKE
CNR. HALSEY COR. VA. RUFINO STREETS
SALCEDO VILLAGE 1227

ENGINEER:
SIMON JOHN C. TE
PROFESSIONAL MECHANICAL ENGINEER
REG. NO. | PRC | DATE | ISSUED
PTR NO. | TIN NO. | PTR NO. | PRC BOARD VALIDITY

PROJECT TITLE
PROPOSED PEZA BIC OFFICE FITOUT
LOCATION: ROXAS BOULEVARD CITY, METRO MANILA PHILIPPINES

OWNER:
PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO S. PANGA
DIRECTOR ERVIN AC - PEZA

SHEET CONTENTS
MECHANICAL SERVICES
EQUIPMENT SCHEDULE 1

ABE	PRE	MET		FOR CONSTRUCTION DRAWINGS	ISSUED

SHEET NO.
M0-02
PROJ NO. MP2558

EQUIPMENT SCHEDULE

VARIABLE REFRIGERANT AIR-CONDITIONING UNITS:

INDOOR UNIT													OUTDOOR UNIT										
UNIT DESIGNATION	QTY.	AREA(S)/ ZONE SERVED	LOCATION	TYPE	SELECTED TOTAL COOLING CAPACITY (kW)	SELECTED SENSIBLE COOLING CAPACITY (kW)	SELECTED AIR FLOW (L/S)	ESP (Pa)	ELECTRICAL CHARACTERISTICS				REMARKS	UNIT DESIGNATION	QTY.	LOCATION	REF	TR	CONDENSER ENTERING AIR (TDB) (°C)	COMPRESSOR MOTOR OUTPUT (kW)	CONDENSER FAN POWER OUTPUT (kW)	TOTAL POWER INPUT (kW)	ELECTRICAL CHARACTERISTICS			REMARKS
									FAN MOTOR INPUT (Qty)	V	P	H												
FCU-SF-03-03A; FCU-SF-03-04B; FCU-SF-03-05D; FCU-SF-03-06F; FCU-SF-03-06F;	5	BUREAU OF IMMIGRATION'S - OFFICE	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.3	733	Pa/S	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-SF-06		EXISTING ROOF								EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING INFO INDOOR AND OUTDOOR
FCU-SF-03-03E	1	FOREIGN NATIONAL UNIT - OFFICE	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.3	733	Pa/S	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-03-03G	1	BUREAU OF IMMIGRATION - RECEIVING / CASHIER	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-03-03H	1	SHARED FACILITY	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-03	2	BUREAU OF IMMIGRATIONS - OFFICE, BUREAU OF IMMIGRATION'S - RECEIVING / CASHIER, FOREIGN NATIONAL UNIT - OFFICE	3RD FLOOR	CEILING CONCEALED DUCTED TYPE (PRE-COOLED AIR)	8.1	7.6	1133	150	0.33	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-02-02A	1	SHARED FACILITY	2ND FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-SF-02		EXISTING ROOF								EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNITS INDOOR AND OUTDOOR
FCU-SF-02-02B	1	BUREAU OF CUSTOMS - RECEIVING / CASHIER	2ND FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-02-02C FCU-SF-02-02D	2	BUREAU OF CUSTOMS - OFFICE	2ND FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-02-02E	1	6 PAX MEETING ROOM	2ND FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-02-02F	1	8 PAX MEETING ROOM	2ND FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-02-02G FCU-SF-02-02H	2	SERVICE REGISTRATION UNIT - OFFICE	2ND FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-02	1	BUREAU OF CUSTOMS - RECEIVING / CASHIER, BUREAU OF CUSTOMS - OFFICE, 6 PAX MEETING ROOM, 8 PAX MEETING ROOM, SERVICE REGISTRATION UNIT - OFFICE	2ND FLOOR	CEILING CONCEALED DUCTED TYPE (PRE-COOLED AIR)	22.3	21.2	3150	250	0.944	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-04-03A; FCU-SF-04-04B; FCU-SF-04-05C; FCU-SF-04-06D;	4	WAITING / QUEUING AREA	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-SF-03		EXISTING ROOF								EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE- USE EXISTING UNITS INDOOR AND OUTDOOR
FCU-SF-03-03J; FCU-SF-03-06E;	3	ZONE MCR - OFFICE / RECEIVING AND SORTING AREA	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-03-03I; FCU-SF-03-06A;	2	SERVICE REGISTRATION UNIT - OFFICE	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-03	1	WAITING / QUEUING AREA; ZONE MCR - OFFICE / RECEIVING AND SORTING AREA; SERVICE REGISTRATION UNIT - OFFICE	3RD FLOOR	CEILING CONCEALED DUCTED TYPE (PRE-COOLED AIR)	28	23.8	4000	150	0.33	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-04-03A; FCU-SF-04-04B; FCU-SF-04-05C; FCU-SF-04-06D;	4	FOREIGN NATIONAL UNIT - OFFICE	4TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-SF-04		EXISTING ROOF								EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE- USE EXISTING UNITS INDOOR AND OUTDOOR
FCU-SF-04-03E; FCU-SF-04-06B;	2	FOREIGN NATIONAL UNIT - OFFICE	4TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	4.8	707	N/A	0.031	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-04-03G; FCU-SF-04-06H;	2	WAITING / QUEUING AREA	4TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	4.8	707	N/A	0.031	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-04	1	WAITING / QUEUING AREA; FOREIGN NATIONAL UNIT - OFFICE	4TH FLOOR	CEILING CONCEALED DUCTED TYPE (PRE-COOLED AIR)	11.3	9.5	1333	150	0.591	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-03-03A; FCU-SF-03-06B; FCU-SF-03-07C	3	SUPPORT SERVICES DEPARTMENT - OFFICE	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-SF-05		EXISTING ROOF								EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE- USE EXISTING UNITS INDOOR AND OUTDOOR
FCU-SF-03-04C; FCU-SF-03-05D;	2	MALE SLEEPING QUARTERS, FEMALE SLEEPING QUARTERS,	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-03-05E; FCU-SF-03-07E;	2	6 PAX MEETING ROOM	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-03-07H	1	SHARED FACILITY	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-03-01	1	SUPPORT SERVICES DEPARTMENT - OFFICE; MALE SLEEPING QUARTERS, FEMALE SLEEPING QUARTERS, 6 PAX MEETING ROOM, SHARED FACILITY	3RD FLOOR	CEILING CONCEALED DUCTED TYPE (PRE-COOLED AIR)	11.2	9.5	1350	250	0.944	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-03-01A; FCU-SF-03-06B; FCU-SF-03-06C; FCU-SF-03-07D	4	MAD OFFICE, OIC CAR, CONFINEMENT, SUBSTATION	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-SF-01		EXISTING ROOF								EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE- USE EXISTING UNITS INDOOR AND OUTDOOR
FCU-SF-03-02B	1	INTERVIEW	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-SF-03-01; FCU-SF-03-06A; FCU-SF-03-07B1	1	RESIDENT AUDITOR, COMMISION OF AUDIT	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.3	733	N/A	0.035	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										

APPROVED FOR CONSTRUCTION

ArkiNovus
3F/SF SUNVAC CEM VILLAGE
LAS PIÑAS CITY,
METROMANILA PHILIPPINES 1741

MEINHARDT
Meinhardt Philippines, Inc.
22ND FLOOR CENTRAL SQUARE
5th AVENUE CORNER 30th STREET
BONIFACIO GLOBAL CITY

ENGINEER:
MARK JOHN C. TE
PROFESSIONAL MECHANICAL ENGINEER
REG NO. | EXPY DATE | PTR NO. | DATE ISSUED | TIN NO. | DATE ISSUED | BIR OR NO. |

PROJECT TITLE:
PROPOSED PEZA BIC OFFICE FITOUT

LOCATION: ROXAS BLVD PASAY CITY METRO MANILA PHILIPPINES

OWNER:
PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL - PEZA

SHEET CONTENTS:
MECHANICAL SERVICES
EQUIPMENT SCHEDULE 2

NO.	DATE	BY	REMARKS

SHEET NO.: M0-03
PROJ NO.: MP2558

EQUIPMENT SCHEDULE

VARIABLE REFRIGERANT AIR CONDITIONING UNITS (EXISTING)

INDOOR UNIT													OUTDOOR UNIT											
UNIT DESIGNATION	QTY.	AREA(S)/ ZONE SERVED	LOCATION	TYPE	SELECTED TOTAL COOLING CAPACITY (KW)	SELECTED SENSIBLE COOLING CAPACITY (KW)	SELECTED AIR FLOW (L/S)	ESP (Pa)	ELECTRICAL CHARACTERISTICS				REMARKS	UNIT DESIGNATION	QTY.	LOCATION	RW	TR	CONDENSER ENTERING AIR TEMP. (°C)	CONFIRMED R.MOTOR OUTPUT (kW)	CONDENSER FAN POWER OUTPUT (kW)	TOTAL POWER INPUT (kW)	ELECTRICAL CHARACTERISTICS			REMARKS
									FAN MOTOR INPUT (kw)	V	P	H										V	P	H	
FCU-GF-05-03A; FCU-GF-05-03C; FCU-GF-05-03D; FCU-GF-03-05; FCU-GF-03-06; FCU-GF-05-03E	5	OSG - GROUP MANAGERS OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.0	330	N/A	0.030	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-GF-03		EXISTING ACCU UNIT IT NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND/RE USE EXISTING UNIT(INDOOR & AND OUTDOOR)										
FCU-GF-05-03B	1	CLIENT'S WAITING AREA	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	1.6	1.1	110	N/A	0.030	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-GF-05-03C4	1	COMMISSION OF AUDIT	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	4.4	3.3	270	N/A	0.300	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-GF-03	1	ENVIRONMENTAL SAFETY GROUP - OFFICE; CLIENT'S WAITING AREA; COMMISSION OF AUDIT	5TH FLOOR	CEILING CONCEALED DUCTED TYPE (PRE-COOLED AIR)	12.2	9.6	250	220	0.3H	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-GF-04-03A; FCU-GF-04-05B; FCU-GF-05-03C	3	SUPPORT SERVICES DEPARTMENT - OFFICE	4TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.4	3.1	330	N/A	0.030	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-GF-04		EXISTING ACCU UNIT IT NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND/RE USE EXISTING UNIT(INDOOR & AND OUTDOOR)										
FCU-GF-04-03D	1	BUREAU OF FIRE PROTECTION - OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.4	3.1	330	N/A	0.030	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-GF-04-03B; FCU-GF-04-03F; FCU-GF-05-03H	3	BUREAU OF FIRE PROTECTION - OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	4.8	267	N/A	0.033	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-GF-04-03E	1	CLIENT'S WAITING AREA	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	4.8	267	N/A	0.033	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-GF-05-03E	1	SUPPORT SERVICES DEPARTMENT - OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	4.8	267	N/A	0.033	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-GF-04	1	SUPPORT SERVICES DEPARTMENT - OFFICE; BUREAU OF FIRE DEPARTMENT - OFFICE; CLIENT'S WAITING AREA	4TH FLOOR	CEILING CONCEALED DUCTED TYPE (PRE-COOLED AIR)	12.2	9.6	250	220	0.3H	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-TF-01-05A; FCU-TF-01-03E; FCU-TF-01-05C; FCU-TF-01-05D; FCU-TF-01-03C; FCU-TF-01-03F; FCU-TF-01-03G	8	MANAGEMENT INFORMATION SYSTEMS DEPARTMENT - OFFICE	7TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.4	3.1	222	N/A	0.030	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-TF-02		EXISTING ACCU UNIT IT NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNIT(INDOOR AND OUTDOOR)										
FCU-TF-01-03C	1	ECO-ZONE AND INDUSTRY DEVELOPMENT DEPARTMENT - OFFICE	7TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	2.1	250	N/A	0.030	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-TF-01-03G	1	MEETING/CLIMA AREA	7TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	2.1	250	N/A	0.030	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-TF-01	1	MANAGEMENT INFORMATION SYSTEMS DEPARTMENT - OFFICE; ECO-ZONE AND INDUSTRY DEVELOPMENT DEPARTMENT - OFFICE; MEETING/CLIMA AREA	7TH FLOOR	CEILING CONCEALED DUCTED TYPE (PRE-COOLED AIR)	12.2	9.6	250	220	0.3H	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-TF-02-03A; FCU-TF-02-03C; FCU-TF-02-03D;	3	SHARED PANTRY	7TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	330	N/A	0.030	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-TF-03		EXISTING ACCU UNIT IT NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNIT(INDOOR AND OUTDOOR)										
FCU-TF-02-03D	1	MIS STORAGE	7TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	330	N/A	0.030	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-TF-03-03C	1	8 PAX MEETING ROOM	7TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	330	N/A	0.030	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-TF-02-03E; FCU-TF-02-03G; FCU-TF-02-03H;	3	CORPORATE PLANNING DEPARTMENT	7TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	330	N/A	0.030	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-TF-02	1	SHARED PANTRY; MIS STORAGE; 8 PAX MEETING ROOM; CORPORATE PLANNING DEPARTMENT	7TH FLOOR	CEILING CONCEALED DUCTED TYPE (PRE-COOLED AIR)	12.2	9.6	250	220	0.3H	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-TF-05-03A	1	CLIENT'S WAITING AREA	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	330	N/A	0.030	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-TF-05-03B	1	8 PAX MEETING ROOM	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	330	N/A	0.030	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-TF-05-03C; FCU-TF-05-03D; FCU-TF-05-03E;	3	OSG/STAFF AREA GROUP MANAGER OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	330	N/A	0.030	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-TF-05-03F	1	OSG/OS POLICY AND PLANNING - OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	330	N/A	0.030	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-TF-05-03G; FCU-TF-05-03H;	2	CORPORATE PLANNING DEPARTMENT	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	330	N/A	0.030	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-TF-05	1	CLIENT'S WAITING AREA, 8 PAX MEETING ROOM, OSG/OS STAFF AREA GROUP MANAGER OFFICE), OSG/OS POLICY AND PLANNING - OFFICE; CORPORATE PLANNING DEPARTMENT	7TH FLOOR	CEILING CONCEALED DUCTED TYPE (PRE-COOLED AIR)	12.2	9.6	250	220	0.3H	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-TF-04-03A; FCU-TF-04-03B; FCU-TF-04-03C; FCU-TF-04-03D;	4	ECO-ZONE AND INDUSTRY DEVELOPMENT DEPARTMENT - OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	330	N/A	0.030	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-TF-04		EXISTING ACCU UNIT IT NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNIT(INDOOR AND OUTDOOR)										
FCU-TF-04-03E	1	CLIENTS WAITING AREA	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	4.8	267	N/A	0.033	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-TF-04-03F	1	ECO-ZONE AND INDUSTRY DEVELOPMENT DEPARTMENT - RECEIVING AREA	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	4.8	267	N/A	0.033	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											

APPROVED FOR CONSTRUCTION

ArkiNovus

8/28 AVENUE, 28F FILRE, LAS PIÑAS CITY, METROMANILA, PHILIPPINES 1776

MEINHARDT

Meinhardt Philippines, Inc.

32F N TOWER ONE BGC 9TH AVE, BGC, TAGUIG CITY, PHILIPPINES 1634

ENGINEER:

MARK JOHN C. TE
PROFESSIONAL MECHANICAL ENGINEER

REG. NO.	VALID	DATE	SIGNATURE
PTR NO.	8677574	01-JAN-2021	
MTOA NO.	20-120-511		

PROJECT TITLE

PROPOSED PEZA BIC OFFICE FITOUT

LOCATION: ROXAS BLVD.,MANILA CITY, METRO MANILA, PHILIPPINES

OWNER:

PHILIPPINES ECONOMIC ZONE AUTHORITY

TERESO O. PANGA
DIRECTOR GENERAL - PEZA

SHEET CONTENTS

MECHANICAL SERVICES
EQUIPMENT SCHEDULE 3

NO.	DATE	BY	DESCRIPTION
			FOR CONSTRUCTION DRAWINGS

SHEET NO.

M0-04

PROJ NO. MP2558

EQUIPMENT SCHEDULE

VARIABLE REFRIGERANT AIR CONDITIONING UNITS (EXISTING)

INDOOR UNIT													OUTDOOR UNIT											
UNIT DESIGNATION	QTY.	AREA(S) SERVED	LOCATION	TYPE	SELECTED TOTAL COOLING CAPACITY (kW)	SELECTED SENSIBLE COOLING CAPACITY (kW)	SELECTED AIR FLOW (L/S)	ESP (Pa)	ELECTRICAL CHARACTERISTICS: FAN MOTOR INPUT (Kw)	V	P	H	REMARKS	UNIT DESIGNATION	QTY.	LOCATION	ENV	TS	CONDENSER ENTERING AIR TEMP. (°C)	COMPRESSOR MOTOR OUTPUT (kW)	CONDENSER FAN POWER OUTPUT (kW)	TOTAL POWER INPUT (kW)	ELECTRICAL CHARACTERISTICS: V	P	H	REMARKS
FCU-5F-04-005	1	ECO ZONE AND INDUSTRY DEVELOPMENT DEPARTMENT - OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	4.0	367	N/A	0.011	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ECCU-5F-04		EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNIT(INDOOR AND OUTDOOR)									
FCU-5F-04-004	1	5TH/4 MEETING ROOM	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	4.0	367	N/A	0.011	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-04	1	ECO ZONE AND INDUSTRY DEVELOPMENT DEPARTMENT - OFFICE; CLIENTS WAITING AREA; ECO ZONE AND INDUSTRY DEVELOPMENT DEPARTMENT - RECEIVING AREA; 6/7/8/9 MEETING ROOM	7TH FLOOR	CEILING CONCEALED DUCTED TYPE (HIGH STATIC PRESSURE)	11.2	9.5	550	220	0.344	240	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-02-20A; FCU-5F-03-03B; FCU-5F-03-03E	3	2F PAX EXAMINATION ROOM	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	310	N/A	0.008	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ECCU-5F-03		EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNIT(INDOOR AND OUTDOOR)									
FCU-5F-03-03C	1	5/6TH EXAM ROOM	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	310	N/A	0.008	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-03-03D; FCU-5F-03-03F; FCU-5F-03-03H	3	SHARED PANTRY	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	310	N/A	0.008	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-03-03G	1	SUPPLY AND PROPERTY MANAGEMENT - OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	310	N/A	0.008	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-03	2	TOILET ROOM; SHARED PANTRY; SUPPLY AND PROPERTY MANAGEMENT - OFFICE	5TH FLOOR	CEILING CONCEALED DUCTED TYPE (HIGH STATIC PRESSURE)	11.2	9.5	550	220	0.344	240	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-02-02A;	1	SUPPLY AND PROPERTY MANAGEMENT - CASHIER	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	4.0	370	N/A	0.008	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-5F-02		EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNIT(INDOOR AND OUTDOOR)									
FCU-5F-02-02B; FCU-5F-02-02C; FCU-5F-02-02G; FCU-5F-02-02H	4	PROCUREMENT MANAGEMENT SECTION - OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	350	N/A	0.008	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-02-02D; FCU-5F-02-02E; FCU-5F-02-02F	3	GENERAL ADMIN SERVICES - OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	320	N/A	0.008	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-02	2	SUPPLY AND PROPERTY MANAGEMENT - OFFICE; PROCUREMENT MANAGEMENT SECTION - OFFICE; GENERAL ADMIN SERVICES - OFFICE	5TH FLOOR	CEILING CONCEALED DUCTED TYPE (HIGH STATIC PRESSURE)	11.2	9.5	550	220	0.344	240	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-02-02A; FCU-5F-03-03C; FCU-5F-03-03D; FCU-5F-03-03F; FCU-5F-03-03H	5	HR PERSONNEL SERVICES DIVISION - OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	310	N/A	0.008	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-5F-03		EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNIT(INDOOR AND OUTDOOR)									
FCU-5F-03-03B	1	2/3 PAX MEETING ROOM	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	310	N/A	0.008	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-03-03G; FCU-5F-03-03H	2	GENERAL ADMIN SERVICES - OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	310	N/A	0.008	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-03	4	HR PERSON NO. SERVICES DIVISION - OFFICE; 2/3 PAX MEETING ROOM; GENERAL ADMIN SERVICES - OFFICE	5TH FLOOR	CEILING CONCEALED DUCTED TYPE (HIGH STATIC PRESSURE)	11.2	9.5	550	220	0.344	240	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-04-07A; FCU-5F-04-08B	2	2F PAX EXAM ROOM	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	310	N/A	0.008	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-5F-04		EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNIT(INDOOR AND OUTDOOR)									
FCU-5F-04-07C;	1	HR PERSONNEL SERVICES DIVISION - OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	310	N/A	0.008	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-04-08D;	1	HR / TRAINING DIVISION	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	310	N/A	0.008	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-04-08H; FCU-5F-04-08E	2	HR / TRAINING DIVISION	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	4.0	367	N/A	0.011	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-04-08C	1	CLIENTS WAITING AREA	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	4.0	367	N/A	0.011	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-04-08A	1	2/3 PAX MEETING ROOM	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	4.0	367	N/A	0.011	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-04	3	2F/PAX EXAM ROOM; 2/3 PAX MEETING ROOM; CLIENTS WAITING AREA; MEETING AREA 5/6/7/8/9/A	5TH FLOOR	CEILING CONCEALED DUCTED TYPE (HIGH STATIC PRESSURE)	11.2	9.5	550	220	0.344	240	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-03-03C; FCU-5F-03-03D; FCU-5F-03-03F; FCU-5F-03-03G; FCU-5F-03-03H;	5	BUDGET AND TREASURY DEPARTMENT - OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	310	N/A	0.008	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-5F-02		EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNIT(INDOOR AND OUTDOOR)									
FCU-5F-03-03E; FCU-5F-03-03G; FCU-5F-03-03H	3	ACCOUNTING DEPARTMENT - OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	310	N/A	0.008	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-03	1	BUDGET AND TREASURY DEPARTMENT - OFFICE; ACCOUNTING DEPARTMENT - OFFICE	5TH FLOOR	CEILING CONCEALED DUCTED TYPE (HIGH STATIC PRESSURE)	11.2	9.5	550	220	0.344	240	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-03-03A	1	TREASURY/CHANGE FACILITY	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	310	N/A	0.008	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-5F-03		EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNIT(INDOOR AND OUTDOOR)									
FCU-5F-02-10A	1	4 PAX MEETING ROOM	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	310	N/A	0.008	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-5F-02-03C; FCU-5F-02-03D; FCU-5F-02-03E; FCU-5F-02-03F	4	SHAREDPANTRY	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	310	N/A	0.008	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											

APPROVED FOR CONSTRUCTION

ArkiNovus
80 SP ANAHAW, CSP VILLAGE,
LAS PIÑAS CITY,
METROMANILA, PHILIPPINES 1740

MEINHARDT
Meinhardt Philippines, Inc.
18TH FLOOR CYBERSPACE
ALABANG-COM. CTR. ALABANG STREET II
MUNTINLUPA, METRO MANILA

ENGINEER:
ENGR. JOHN C. TY
PROFESSIONAL MECHANICAL ENGINEER
REG. NO. 0027 | CIVIL | MANILA
PTR NO. 8007124 | 01/03/19 | PASAY CITY
APPROVAL NO. 2019-0077

PROJECT TITLE:
PROPOSED PEZA BIC OFFICE FITOUT

LOCATION: BONIFACIO HIGH STREET CITY, METRO MANILA, PHILIPPINES

OWNER:
PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL, PEZA

SHEET CONTENTS:
MECHANICAL SERVICES
EQUIPMENT SCHEDULE 4

NO.	DATE	REVISION	ISSUED FOR CONSTRUCTION-DRAWINGS	ISSUANCE DATE

SHEET NO.: M0-05

PROJ NO.: MP2539

EQUIPMENT SCHEDULE

VARIABLE REFRIGERANT AIR CONDITIONING UNITS (EXISTING)

INDOOR UNIT														OUTDOOR UNIT										
UNIT DESIGNATION	QTY.	AREA(S)/ ZONE SERVED	LOCATION	TYPE	SELECTED TOTAL COOLING CAPACITY (kW)	SELECTED SENSIBLE COOLING CAPACITY (kW)	SELECTED AIR FLOW (L/S)	ESP (Pa)	ELECTRICAL CHARACTERISTICS				REMARKS	UNIT DESIGNATION	QTY.	LOCATION	KW	TR	CONDENSER ENTERING AIR TEMP. (°C)	COMPRESSOR DISCHARGE PRESSURE OUTPUT (BAR)	CONDENSER FAN POWER OUTPUT (kW)	TOTAL POWER INPUT (kW)	ELECTRICAL CHARACTERISTICS			REMARKS
									FAN MOTOR INPUT (kW)	V	P	H										V	P	H	
FCU-BF-03-05C; FCU-BF-03-06H	2	BUSINESS CENTER	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.1	233	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-BF-03		EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNIT (INDOOR AND OUTDOOR)										
FCU-BF-03-04C	1	MULTI-PURPOSE/ CONFERENCE ROOM; 4 PAX MEETING ROOM; SHARED PANTRY; BUSINESS CENTER	3RD FLOOR	CEILING CONCEALED DUCTED TYPE (MID-STATIC AHU)	11.2	9.5	260	250	0.244	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-BF-03-03H; FCU-BF-03-04C	2	CLIENT'S WAITING AREA	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	233	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-BF-03		EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNIT (INDOOR AND OUTDOOR)										
FCU-BF-03-03B	1	E-KIA MEETING ROOM	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.1	233	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-BF-03-02C; FCU-BF-03-03C	2	DEDE STAFF AREA	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.1	233	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-BF-03-01F; FCU-BF-03-01G	2	OFFICE OF THE DEPUTY DIRECTOR GENERAL (FINANCE AND ADMIN) - OFFICE	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	2.8	2.3	116	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
[illegible]	1	INTERFAITH CHAPEL	3RD FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	155	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-BF-02	1	BUSINESS CENTER; CLIENT'S WAITING AREA; E-KIA MEETING ROOM; DEDE STAFF AREA; OFFICE OF THE DEPUTY DIRECTOR GENERAL (FINANCE AND ADMIN) - OFFICE	4TH FLOOR	CEILING CONCEALED DUCTED TYPE (PRE-COOLED AHU)	11.2	9.5	260	250	0.244	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-BF-04-05A; FCU-BF-04-05B; FCU-BF-04-05C; FCU-BF-04-05D	4	ACCOUNTING DEPARTMENT - OFFICE	4TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	233	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-BF-04		EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNIT (INDOOR AND OUTDOOR)										
FCU-BF-04-04E	1	ACCOUNTING DEPARTMENT - OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	4.8	367	N/A	0.051	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-BF-04-03A	1	CLIENT'S WAITING AREA	4TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	4.8	367	N/A	0.051	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-BF-04-02F	1	GROUP MANAGER - OFFICE	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	4.8	367	N/A	0.051	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-BF-04-01A	1	E-KIA MEETING ROOM	5TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	4.8	367	N/A	0.051	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-BF-04	1	ACCOUNTING DEPARTMENT - OFFICE; CLIENT'S WAITING AREA; GROUP MANAGER - OFFICE; E-KIA MEETING ROOM	5TH FLOOR	CEILING CONCEALED DUCTED TYPE (PRE-COOLED AHU)	11.2	9.5	260	250	0.244	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-BF-05-05A; FCU-BF-05-05B; FCU-BF-05-05C; FCU-BF-05-05D; FCU-BF-05-05E	5	RESOURCES MANAGEMENT DIVISION - OFFICE	6TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.1	233	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-BF-05		EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNIT (INDOOR AND OUTDOOR)										
FCU-BF-05-01F; FCU-BF-05-01G; FCU-BF-05-02A	3	ENTERPRISE SERVICES DIVISION - OFFICE	6TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	233	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
AHU-BF-05	1	INCENTIVE MANAGEMENT DIVISION - OFFICE; ENTERPRISE SERVICES DIVISION - OFFICE	6TH FLOOR	CEILING CONCEALED DUCTED TYPE (PRE-COOLED AHU)	11.2	9.5	260	250	0.244	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-BF-05-05A	1	ENTERPRISE MANAGER DIVISION - OFFICE	7TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	233	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-BF-07		EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNIT (INDOOR AND OUTDOOR)										
FCU-BF-05-06D; FCU-BF-05-06E; FCU-BF-05-06C; FCU-BF-05-06G	2	BAGBO DIVISION	7TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	233	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-BF-05-01H; FCU-BF-05-02C; FCU-BF-05-07G; FCU-BF-05-05H	4	ENTERPRISE MANAGERS GROUP - OFFICE	6TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.1	233	N/A	0.038	240	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
AHU-BF-06	1	ENTERPRISE SERVICES DIVISION - OFFICE; BAGBO DIVISION; ENTERPRISE ASSISTANCE GROUP - OFFICE	6TH FLOOR	CEILING CONCEALED DUCTED TYPE (PRE-COOLED AHU)	11.2	9.5	260	250	0.244	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-BF-06-06A; FCU-BF-06-06B	2	CLIENT'S WAITING AREA	7TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.1	233	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-BF-06		EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNIT (INDOOR AND OUTDOOR)										
FCU-BF-06-01C; FCU-BF-06-01B	2	DEDE STAFF AREA	7TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.1	233	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-BF-06-01E	1	GROUP MANAGER - OFFICE	8TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	233	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-BF-06-02F; FCU-BF-06-03D	2	OFFICE OF THE DEPUTY DIRECTOR GENERAL (OPERATIONS) - OFFICE	8TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	5.1	233	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-BF-06-03H	1	ENTERPRISE ASSISTANCE GROUP - OFFICE	8TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	233	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-BF-06	1	CLIENT'S WAITING AREA; DEDE STAFF AREA; GROUP MANAGER - OFFICE; OFFICE OF THE DEPUTY DIRECTOR GENERAL (OPERATIONS) - OFFICE; ENTERPRISE ASSISTANCE GROUP - OFFICE	8TH FLOOR	CEILING CONCEALED DUCTED TYPE (PRE-COOLED AHU)	11.2	9.5	260	250	0.244	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											

APPROVED FOR CONSTRUCTION

ArkiNovus
[illegible]

METRHARDT
Metrhardt Philippines, Inc.
[illegible]

ENGINEER:
[illegible]
PROFESSIONAL MECHANICAL ENGINEER

PROJECT TITLE
PROPOSED PEZA BIC OFFICE FITOUT

LOCATION: [illegible]

OWNER:
PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL - PEZA

SHEET CONTENTS
MECHANICAL SERVICES
EQUIPMENT SCHEDULE 5

SHEET NO.
M0-05

PROJ NO. MP2056

EQUIPMENT SCHEDULE

VARIABLE REFRIGERANT AIR CONDITIONING UNITS (EXISTING)

INDOOR UNIT													OUTDOOR UNIT										
UNIT DESIGNATION	QTY.	AREA(S) / ZONE SERVED	LOCATION	TYPE	REJECTED TOTAL COOLING CAPACITY (KW)	REJECTED SENSIBLE COOLING CAPACITY (KW)	SELECTED AIR FLOW (L/S)	ESP (Pa)	ELECTRICAL CHARACTERISTICS				REMARKS	UNIT DESIGNATION	QTY.	LOCATION	KW	TR	CONDENSER EXTERIOR AIR TEMP. (°C)	COMPRESSOR MOTOR OUTPUT (kW)	CONDENSER FAN POWER OUTPUT (kW)	TOTAL POWER INPUT (kW)	ELECTRICAL CHARACTERISTICS			REMARKS
									FAN MOTOR INPUT (Kw)	V	P	H										V	P	H	
FCU-12F-01-02A; FCU-12F-04-03A; FCU-12F-04-03C; FCU-12F-05-03D	4	ENTERPRISE REGULATION DIVISION - OFFICE	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	2.8	2.1	220	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-12F-04		EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HARLICH'S AND/OR USE EXISTING UNIT'S INDOOR AND OUTDOOR)									
FCU-12F-04-03E	1	ENTERPRISE REGULATION DIVISION - OFFICE	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	4.5	4.0	267	N/A	0.051	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-04-03C; FCU-12F-04-03H	2	8 PAX MEETING ROOM (LEFT AND RIGHT)	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	4.0	267	N/A	0.051	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-04-03G	1	CHIEF MANAZER - OFFICE	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	4.0	267	N/A	0.051	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-01	1	ENTERPRISE REGULATION DIVISION - OFFICE; CLIENT'S WAITING AREA; 8 PAX MEETING ROOM; CHIEF MANAZER - OFFICE	12TH FLOOR	CEILING CONCEALED DUCTED TYPE (HIGH COOLED AIR)	11.2	9.5	333	150	0.244	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-02-02A; FCU-12F-02-03G; FCU-12F-02-03J	3	COMMAND CENTER	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-12F-03		EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HARLICH'S AND/OR USE EXISTING UNIT'S INDOOR AND OUTDOOR)									
FCU-12F-01-02C; FCU-12F-01-03C	2	8 PAX MEETING ROOM	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-01-02F; FCU-12F-01-03G; FCU-12F-01-03H	3	SALES PANTRY	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-01	1	COMMAND CENTER; 8 PAX MEETING ROOM; SALES PANTRY	12TH FLOOR	CEILING CONCEALED DUCTED TYPE (HIGH COOLED AIR)	11.2	9.5	333	150	0.244	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-03-05A	1	CORP DRAFTS COMMUNICATIONS - OFFICE	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-12F-03		EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HARLICH'S AND/OR USE EXISTING UNIT'S INDOOR AND OUTDOOR)									
FCU-12F-02-02.5	1	8 PAX MEETING ROOM	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-03-04C; FCU-12F-03-03D; FCU-12F-03-03J; FCU-12F-03-05A; FCU-12F-03-03H;	3	INVESTMENT PROMOTIONS - OFFICE	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-03-03G	1	GROUP MANAGER - OFFICE	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-02	1	CORPORATE COMMUNICATIONS - OFFICE; INVESTMENT PROMOTIONS - OFFICE; GROUP MANAGER - OFFICE	12TH FLOOR	CEILING CONCEALED DUCTED TYPE (HIGH COOLED AIR)	11.2	9.5	280	150	0.244	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-03-03A; FCU-12F-03-03E; FCU-12F-05-03G; FCU-12F-03-03L; FCU-12F-03-03K;	5	LEGAL AFFAIRS GROUP	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	4.5	3.1	280	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-03-03B	1	12 PAX MEETING ROOM	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	280	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-03-03F	1	GROUP MANAGER - OFFICE	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-12F-03		EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HARLICH'S AND/OR USE EXISTING UNIT'S INDOOR AND OUTDOOR)									
FCU-12F-03-03I	1	8 PAX MEETING ROOM	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-01 FCU-12F-03-03L	1	LEGAL AFFAIRS GROUP; GROUP MANAGER - OFFICE; LIVING MEETING ROOM); 8 PAX MEETING ROOM	12TH FLOOR	CEILING CONCEALED DUCTED TYPE (HIGH COOLED AIR)	11.2	9.5	350	220	0.244	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-04-04A; FCU-12F-04-04C; FCU-12F-04-03J	3	INTERNAL AUDIT GROUP - OFFICE	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	220	N/A	0.038	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-12F-04		EXISTING ACCU UNIT IF NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HARLICH'S AND/OR USE EXISTING UNIT'S INDOOR AND OUTDOOR)									
FCU-12F-04-03B	1	GROUP MANAGER - OFFICE	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	4.5	267	N/A	0.051	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-04-03I; FCU-12F-04-03K	2	INTERNAL AUDIT GROUP - OFFICE	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	4.5	267	N/A	0.051	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-04-03L	1	CLIENT'S WAITING AREA	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	4.5	267	N/A	0.051	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-04-03H	1	24 PAX MEETING ROOM	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	5.6	4.5	267	N/A	0.051	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										
FCU-12F-04	1	INTERNAL AUDIT GROUP - OFFICE; GROUP MANAGER - OFFICE; CLIENT'S WAITING AREA; 24 PAX MEETING ROOM	12TH FLOOR	CEILING CONCEALED DUCTED TYPE (HIGH COOLED AIR)	11.2	9.5	350	220	0.244	230	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM										

APPROVED FOR CONSTRUCTION

ArkiNovus

Meinhardt Philippines, Inc.

ENGINEER:

PROJECT TITLE: PROPOSED PEZA BIC OFFICE FITOUT

LOCATION:

OWNER: PHILIPPINES ECONOMIC ZONE AUTHORITY

TERESO O. PANGA

SHEET CONTENTS: MECHANICAL SERVICES EQUIPMENT SCHEDULES

SHEET NO. MD-07

PROJ NO. MP2556

EQUIPMENT SCHEDULE

VARIABLE REFRIGERANT AIR CONDITIONING UNITS (EXISTING)

INDOOR UNIT														OUTDOOR UNIT											
UNIT DESIGNATION	QTY.	AREA(S) / ZONE SERVED	LOCATION	TYPE	SELECTED TOTAL COOLING CAPACITY (kW)	SELECTED SENSIBLE COOLING CAPACITY (kW)	SELECTED AIR FLOW (L/S)	ESP (Pa)	ELECTRICAL CHARACTERISTICS				REMARKS	UNIT DESIGNATION	QTY.	LOCATION	R/W	TR	CONDENSER ENTERING AIR TEMP. (°C)	COMPRESSOR MOTOR OUTPUT (kW)	CONDENSER FAN POWER OUTPUT (kW)	TOTAL POWER INPUT (kW)	ELECTRICAL CHARACTERISTICS			REMARK
									FAN MOTOR INPUT (kW)	V	P	H										V	P	H	
FCU-12F-01-01A	1	BOARD SECRETARY - OFFICE	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-12F-01		EXISTING ACCU UNIT IS NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNITS INCLUDE AND OUTDOOR)										
FCU-12F-01-01B	1	MIS & ICT DATA CENTER CORRIDOR	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-12F-01-01C	1	BOARD ROOM	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-12F-01-01D FCU-12F-01-01E	1	OFFICE OF THE BOARD SECRETARY - OFFICE	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-12F-01-01F	1	SMS PANTRY	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-12F-01-01G	1	CLIENT'S WAITING AREA	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-12F-01-01H	1	E-PAX MEETING ROOM	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FFCU-12F-01	1	BOARD SECRETARY - OFFICE, MIS & ICT DATA CENTER, OFFICE OF THE BOARD SECRETARY - OFFICE, SMS PANTRY, CLIENT'S WAITING AREA, E-PAX MEETING ROOM	12TH FLOOR	CEILING CONCEALED DUCTED TYPE (FOR COOLED AIR)	11.1	9.5	2100	210	0.244	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-12F-02-02A	1	EPAD MEETING ROOM	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-12F-02		EXISTING ACCU UNIT IS NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNITS INCLUDE AND OUTDOOR)										
FCU-12F-02-02B	1	CLIENT'S WAITING AREA	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-12F-02-02C	1	SMS PANTRY	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-12F-02-02D, FCU-12F-02-02E, FCU-12F-02-02G, FCU-12F-02-02H	4	OMG DRAFT - OFFICE	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-12F-02-02K	1	CHIEF OF STAFF - OFFICE	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FFCU-12F-02	1	E-PAX MEETING ROOM, CLIENT'S WAITING AREA, CONFINANTS, CEO STAFF - OFFICE, CHIEF OF STAFF - OFFICE	12TH FLOOR	CEILING CONCEALED DUCTED TYPE (FOR COOLED AIR)	11.7	9.3	2100	210	0.244	220	1	60	1.EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-12F-03-03A, FCU-12F-03-03B	2	HALL OF FAME	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-12F-03		EXISTING ACCU UNIT IS NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNITS INCLUDE AND OUTDOOR)										
FCU-12F-03-03C	1	22 PAX MEETING ROOM	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-12F-03-03D, FCU-12F-03-03F, FCU-12F-03-03G, FCU-12F-03-03H	4	OFFICE OF THE DIRECTOR GENERAL	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-12F-03-03E	1	EXECUTIVE BEDROOM	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-12F-03-03I	1	HALL OF FAME, 22 PAX MEETING ROOM, OFFICE OF THE DIRECTOR GENERAL, EXECUTIVE BEDROOM	12TH FLOOR	CEILING CONCEALED DUCTED TYPE (MID-COOLED AIR)	11.7	9.3	2100	210	0.244	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-12F-04-04A, FCU-12F-04-04B, FCU-12F-04-04C, FCU-12F-04-04D	4	BOARDROOM	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	3.1	333	N/A	0.038	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM	ACCU-12F-04		EXISTING ACCU UNIT IS NEEDED TO ENSURE FULL PERFORMANCE OF EXISTING UNIT, RE-HABILITATE AND RE-USE EXISTING UNITS INCLUDE AND OUTDOOR)										
FCU-12F-04-04E, FCU-12F-04-04G	2	EXECUTIVE LOUNGE	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	4.5	567	N/A	0.051	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-12F-04-04F	1	BOARDROOM PANTRY	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	4.5	567	N/A	0.051	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-12F-04-04H	1	22 PAX MEETING ROOM	12TH FLOOR	4-WAY CEILING CASSETTE TYPE	3.6	4.5	567	N/A	0.051	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											
FCU-12F-04	1	BOARDROOM, EXECUTIVE LOUNGE, BOARDROOM PANTRY, E-PAX MEETING ROOM	12TH FLOOR	CEILING CONCEALED DUCTED TYPE (MID-COOLED AIR)	11.3	9.3	2100	210	0.244	220	1	60	1. EXISTING RELOCATED UNIT 2.TAP TO EXISTING PIPING SYSTEM											

APPROVED FOR CONSTRUCTION

ArkiNovus
3/12F Avenue Corporate Center
Ayala Avenue cor. Arnaiz Avenue
Makati City, Philippines

MEINHARDT
Meinhardt Philippines, Inc.
20th Floor Cathay House
139 Alfaro Street, Salcedo Village
Makati City, Philippines

ENGINEER:
[signature]
ENGR. JOHN LOYD [illegible]
PROFESSIONAL MECHANICAL ENGINEER

REG. NO.	VAT	DATE	SIGNATURE
PTR NO.	BIR TIN	PLACE	PRC/BOT CPE
TAX ID NO.	207-322-371		

PROJECT TITLE:
PROPOSED PEZA BIC OFFICE FITOUT

LOCATION: ROOSEVELT AVENUE, QUEZON CITY, METRO MANILA, PHILIPPINES

OWNER:
PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL / PCEA

SHEET CONTENTS:
MECHANICAL SERVICES
EQUIPMENT SCHEDULE 7

UNIT	PMS	VET		FOR CONSTRUCTION DRAWINGS	ISSUED

SHEET NO.
M0-08

PROJ NO. MP2568

EQUIPMENT SCHEDULE

AIR PURIFIER EQUIPMENT SCHEDULE (NEW)

DESIGNATION	QTY.	AREA(S) / ZONE SERVED	LOCATION	CAPACITY (L/s)	TYPE	EXTERNAL STATIC PRESSURE (Pa)	MOTOR RATING (KW)	ELECTRICAL CHARACTERISTICS			REMARKS
								VOLTS	PHASE	HERTZ	
AP-BF-01	1	BUREAU OF IMMIGRATION(B) - OFFICE	5TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	A. COMPLETE W/ UV LAMP AND/OR HEPA FILTER B. FLOOR MOUNTED
AP-BF-02	1	BUREAU OF IMMIGRATION(B) - WAITING / COUNTER	5TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-03	1	SHARED PANTRY	5TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	
AP-BF-04	1	BUREAU OF CUSTOMS - OFFICE	5TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-05	1	BUREAU OF CUSTOMS - RECEIVING / COUNTER	5TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-06	1	MAINTENANCE AND SUPPLY MANAGEMENT - OFFICE	5TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-07	1	5-PAX MEETING ROOM	5TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-08	1	5-PAX MEETING ROOM	5TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-09	1	DIRECTE REGISTRATION UNIT - SERVICE	5TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-10	2	ZONE AIDS - OFFICE	5TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-11	2	WAITING / QUEUING AREA	5TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-12	2	FOREIGN NATIONAL UNIT - OFFICE	5TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-13	2	SURVEILLANCE SERVICES DEPARTMENT - OFFICE	6TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	A. COMPLETE W/ UV LAMP AND/OR HEPA FILTER B. FLOOR MOUNTED
AP-BF-14	2	AVSEC SURVEILLANCE UNIT - OFFICE	6TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-15	2	FEMALE SCREENING SUBUNIT - OFFICE	6TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-16	1	6-PAX MEETING ROOM	6TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-17	3	6-PAX MEETING ROOM	6TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-18	1	SHARED PANTRY	6TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-19	1	LACTATION ROOM	6TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-20	1	CR1 / CR2	6TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-21	1	STAR MEMBERS	6TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-22	1	PANTRY / BUFFET ROOM	6TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-23	1	NURSERY STATION / CHILD AND MEDICAL SERVICES (CMS)	6TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-24	1	SYSTEM 24	6TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-25	2	COMMISSION ON AUDIT - OFFICE	6TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-26	2	ENVIRONMENT SAFETY GROUP - OFFICE	6TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-27	1	MD - GROUP MANAGER OFFICE	6TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-28	2	CLIENT'S WAITING AREA	6TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-29	2	BFP - DIVISION CHIEF, DEPARTMENT HEAD, AND SENIOR OFFICE	6TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	A. COMPLETE W/ UV LAMP AND/OR HEPA FILTER B. FLOOR MOUNTED
AP-BF-30	2	MANAGEMENT INFORMATION SYSTEM DEPARTMENT - OFFICE	7TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-31	1	TECHNICIAN AREA	7TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-32	1	SHARED PANTRY	7TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-33	1	20 PAX MEETING ROOM	7TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-34	2	COMMUNITY PLANNING DEPARTMENT - OFFICE	7TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-35	1	OFFICE OF THE DEPUTY DIRECTOR GENERAL (POLICY AND PLANNING)	7TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	A. COMPLETE W/ UV LAMP AND/OR HEPA FILTER B. FLOOR MOUNTED
AP-BF-36	1	CEDO STAFF AREA	7TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-37	1	GROUP MANAGER	7TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-38	1	20 PAX MEETING ROOM	7TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-39	1	20 PAX MEETING ROOM	7TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-40	1	CLIENTS WAITING AREA - RECEIVING/LOBBY AREA	7TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-41	2	ECO-ZONES AND INDUSTRY DEVELOPMENT DEPARTMENT - OFFICE	7TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-42	1	30 PAX TRAINING ROOM	8TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	A. COMPLETE W/ UV LAMP AND/OR HEPA FILTER B. FLOOR MOUNTED
AP-BF-43	1	50 PAX BOARD ROOM	8TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-44	1	SHARED PANTRY	8TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-45	1	SUPPLY AND FACILITY MANAGEMENT	8TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-46	1	PROCUREMENT MANAGEMENT SECTION	8TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-47	2	GENERAL ADMIN SERVICES - OFFICE	8TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-48	1	GROUP MANAGER	8TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-49	1	HUMAN RESOURCE SERVICES DIVISION - OFFICE	8TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-50	1	CLIENT'S WAITING AREA	8TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-51	1	12 PAX MEETING ROOM	8TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-52	1	HRD DIVISION	8TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-53	1	ACCOUNTING DEPARTMENT - OFFICE	9TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	A. COMPLETE W/ UV LAMP AND/OR HEPA FILTER B. FLOOR MOUNTED
AP-BF-54	2	BUDGET AND TREASURY DEPARTMENT - OFFICE	9TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-55	1	STORAGE / RECEPTION	9TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-56	1	4 PAX MEETING ROOM	9TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-57	2	SHARED PANTRY	9TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-58	1	OFFICE OF THE DEPUTY DIRECTOR GENERAL (FINANCE AND ADMIN)	9TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-59	1	CEDO STAFF AREA	9TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-60	1	CLIENT'S WAITING AREA	9TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-61	1	8 PAX MEETING ROOM	9TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-62	1	8 PAX MEETING ROOM	9TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-63	1	GROUP MANAGER	9TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-64	1	8 PAX MEETING ROOM	9TH FLOOR	330	FLOOR MOUNTED	-	0.12	220	1	60	
AP-BF-65	1	ENTERPRISE DEVELOPMENT AND SUPPORT SERVICES - INCENTIVES MANAGEMENT DIVISION (DEPARTMENT HEAD, ONE-STOP SHOP - SECTORIZED REGULATION DIVISION - OFFICE	10TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	A. COMPLETE W/ UV LAMP AND/OR HEPA FILTER B. FLOOR MOUNTED
AP-BF-66	1	SHARED PANTRY	10TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-BF-67	1	ENTERPRISE DEVELOPMENT AND SUPPORT SERVICES - INCENTIVES MANAGEMENT DIVISION (DEPARTMENT HEAD, ONE-STOP SHOP - SECTORIZED REGULATION DIVISION - OFFICE	10TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-BF-68	1	OFFICE OF THE DEPUTY DIRECTOR GENERAL (CORPORATE)	10TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-BF-69	1	CEDO STAFF AREA	10TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-BF-70	1	GROUP MANAGER	10TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-BF-71	1	CLIENTS WAITING AREA	10TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-BF-72	1	8 PAX MEETING ROOM	10TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-BF-73	1	8 PAX MEETING ROOM	10TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-BF-74	1	GROUP MANAGER	10TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-12F-01	1	COMMAND CENTER - DEPARTMENT HEAD	12TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	A. COMPLETE W/ UV LAMP AND/OR HEPA FILTER B. FLOOR MOUNTED
AP-12F-02	1	SERVER / MATRIX	12TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-12F-03	1	PROMOTION AND PUBLIC RELATIONS GROUP - CORPORATE COMMUNICATIONS - INVESTMENT PROMOTIONS - OFFICE	12TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-12F-04	1	GROUP MANAGER	12TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-12F-05	1	8 PAX MEETING ROOM	12TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-12F-06	2	LEGAL AFFAIRS GROUP - OFFICE	12TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-12F-07	1	GROUP MANAGER	12TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-12F-08	1	CLIENT'S WAITING AREA	12TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-12F-09	1	12 PAX MEETING ROOM	12TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-12F-10	1	INTERNAL AUDIT GROUP - OFFICE	12TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-12F-11	1	GROUP MANAGER	12TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-12F-12	1	8 PAX MEETING ROOM	12TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	
AP-12F-13	1	8 PAX MEETING ROOM	12TH FLOOR	330	FLOOR MOUNTED	-	0.24	220	1	60	

AIR PURIFIER EQUIPMENT SCHEDULE (NEW)

DESIGNATION	QTY.	AREA(S) / ZONE SERVED	LOCATION	CAPACITY (L/s)	TYPE	EXTERNAL STATIC PRESSURE (Pa)	MOTOR RATING (KW)	ELECTRICAL CHARACTERISTICS			REMARKS
								VOLTS	PHASE	HERTZ	
AP-12F-01	1	BOARD SECRETARY	12TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	A. COMPLETE W/ UV LAMP AND/OR HEPA FILTER B. FLOOR MOUNTED
AP-12F-02	1	OFFICE OF THE BOARD SECRETARIAT	12TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	
AP-12F-03	1	MD WORKSTAT	12TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	
AP-12F-04	1	MINI PANTRY	12TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	
AP-12F-05	1	10 PAX MEETING ROOM	12TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	
AP-12F-06	1	6 PAX MEETING ROOM	12TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	
AP-12F-07	1	CLIENT'S WAITING AREA	12TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	
AP-12F-08	1	CEDO PANTRY	12TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	
AP-12F-09	2	CEDO STAFF AREA - OFFICE	12TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	
AP-12F-10	1	CHIEF OF STAFF	12TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	
AP-12F-11	2	OFFICE OF THE DIRECTOR GENERAL	12TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	
AP-12F-12	1	EXECUTIVE SUITE	12TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	
AP-12F-13	1	BEDROOM	12TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	
AP-12F-14	1	MAIL DR ROOM	12TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	
AP-12F-15	1	EXECUTIVE LOUNGE	12TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	
AP-12F-16	1	ZONAC MEETING ROOM	12TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	
AP-12F-17	1	BOARDROOM	12TH FLOOR	170	FLOOR MOUNTED	-	0.04	220	1	60	

APPROVED FOR CONSTRUCTION

ArkiNovus
3RD/F AVENUE ZIP TOWER,
JAI PRAI CITY,
MERCEDES-LA, PAMPANGA (T3)

MEINHARDT
Meinhardt Philippines, Inc.
20TH FLOOR CENTERA HOUSE
6810 EDSA COR. VA. ROBLES STREETS
MAKATI CITY, PHILIPPINES 1200

ENGINEER:
[signature]
ENGR. JOHN C. TE
PROFESSIONAL MECHANICAL ENGINEER
REG. NO. 0025 | DATE: 01/14/25
PTR NO. 0007215 | PLACE: PASAY CITY
TIN NO. 201-222-371

PROJECT TITLE:
PROPOSED PEZA BIC OFFICE FITOUT

LOCATION: ROSSINI AVE. BGY. CITY, METRO MANILA, PHILIPPINES

OWNER:
PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL - PEZA

SHEET CONTENTS:
MECHANICAL SERVICES
EQUIPMENT SCHEDULES

NO.	DATE	BY	DESCRIPTION
			ISSUE FOR CONSTRUCTION DRAWINGS

SHEET NO.: M0-09
PROJ NO.: MP2558

EQUIPMENT SCHEDULE

FANS AND BLOWERS (NEW):

DESIGNATION	QTY.	TYPE	AREA(S) / ZONE SERVED	LOCATION	AIR FLOW RATE (l/s)	ESP (Pa)	Motor Size (kW)	ELECTRICAL CHARACTERISTICS			REMARKS
								VOLTS	PHASE	HERTZ	
[illegible]	1	CEILING CASSETTE	PWD TOILET	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	DISPATCH TOILET	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	PWD TOILET	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	MALE QUARTERS TOILET	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	FEMALE QUARTERS TOILET	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	PWD TOILET	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	CODIG PLUMBING - TOILET	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	PWD TOILET	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	PWD TOILET	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	CODIG FINANCE - TOILET	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	PWD TOILET	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	CODIG OPERATIONS - TOILET	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	PWD TOILET	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	BOARD ROOM - TOILET	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	HALL OF FAME - TOILET	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	EXECUTIVE TOILET	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	CLINIC – CONFINEMENT AREA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	GENERAL STORAGE (STO)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	CEILING CASSETTE	GENERAL STORAGE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

LEGENDS:

(A) [illegible]

(S) WITH TELEPHONE VIBRATION ISOLATOR

(ST) ELECTRICALLY INTERLOCKED WITH CORRESPONDING EXHAUST FAN

(W) WIRELESS WITH LIGHTING SWITCH

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT
Meinhardt Philippines, Inc.

ENGINEER:
[illegible]
PROFESSIONAL MECHANICAL ENGINEER

PROJECT TITLE:
PROPOSED PEZA BIC OFFICE FITOUT

LOCATION: [illegible]

OWNER:
PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL / CEO

SHEET CONTENTS:
MECHANICAL SERVICES
EQUIPMENT SCHEDULE 6

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SHEET NO.
MD-10

PROJ NO. MP2506

NOTES:

E – EXISTING FCU/FANS

N – NEW UNIT FCU/FANS

ER – EXISTING RELOCATED

RE – REPLACEMENT FOR EXISTING FCU

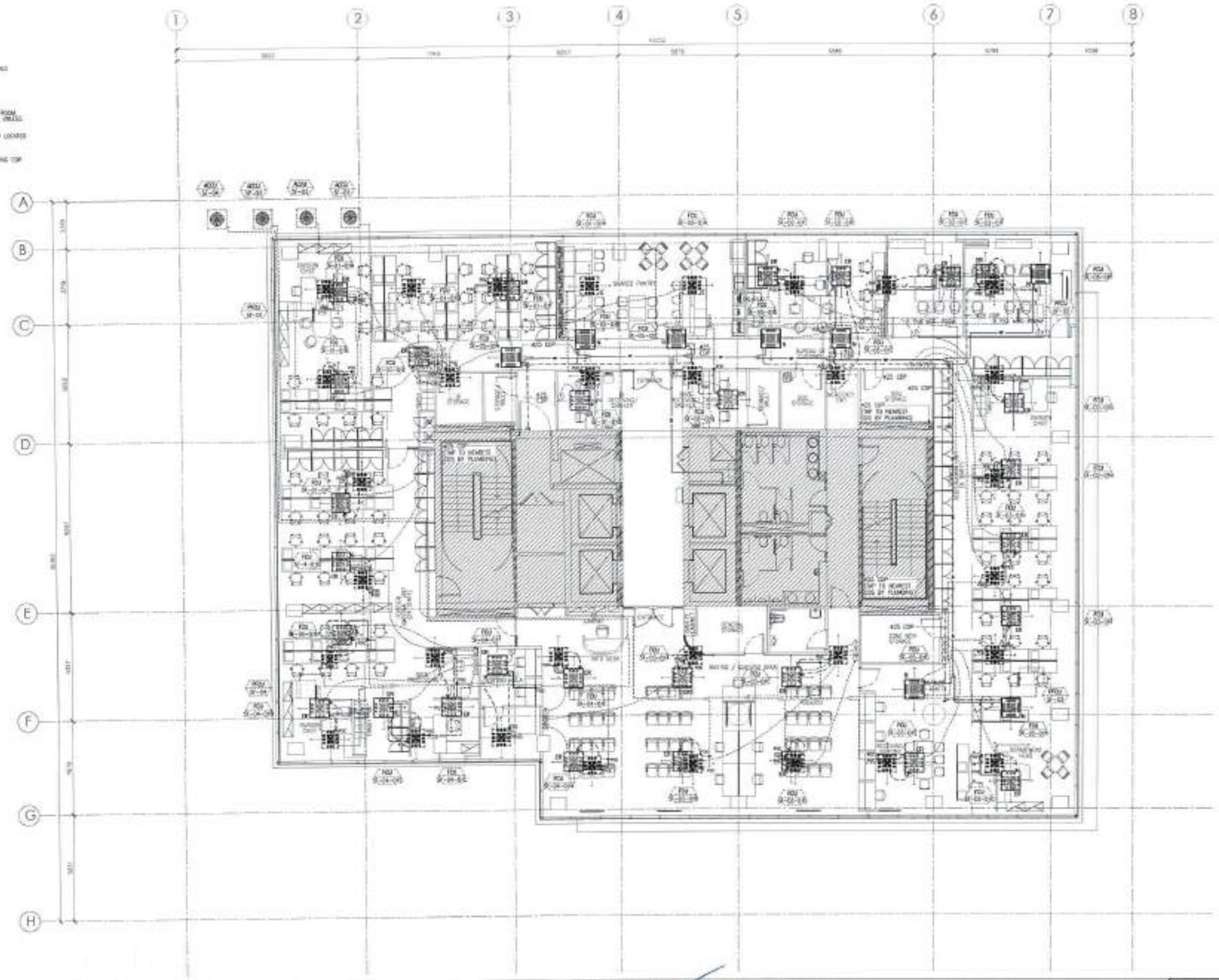
[hatched] – DISMANTLING OF EXISTING MATERIALS

1. CONNECT/TAP ALL EXISTING RELOCATED DUCTS TO EXISTING CONDENSATE DRAIN & REFRIGERANT PIPES.

2. NO CONDENSATE DRAIN PIPE, REFRIGERANT PIPES AND DUCTING SHALL TRAVEL THRU IT ROOM, SER ROOM, HUB ROOM AND SERVER ROOM UNLESS SERVING THE AREA.

3. PROVIDE ACCESS PANEL TO ALL EQUIPMENT LOCATED AT FIXED CEILING.

4. IF THERE'S A PROBLEM ON CDP SLOPING, TAP THE ASSIGNED CDP ON NEAREST CEILING CDP EXPOSE POINT OF BASE BUILDING.



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5TH FLOOR AIR-CONDITIONING, THERMOSTAT & PIPING LAYOUT

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT
Meinhardt Philippines, Inc.

ENGINEER:

PROJECT TITLE:
PROPOSED PEZA BIC OFFICE FITOUT

LOCATION:

OWNER:
PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL, PEZA

SHEET CONTENTS:
MECHANICAL SERVICES
5TH FLOOR
AIR-CONDITIONING, THERMOSTAT & PIPING LAYOUT

FOR CONSTRUCTION DRAWINGS

SHEET NO.
M1-01

PROJ NO. MP2020

NOTES:

C - EXISTING FCU/FANS
N - NEW UNIT FCU/FANS
CR - EXISTING RELOCATED
RE - REPLACEMENT FOR EXISTING FCU
////// - DISMANTLING OF EXISTING MATERIALS

1. CONNECT/TAP ALL EXISTING RELOCATED FCU'S TO EXISTING CONDENSATE DRAIN & REFRIGERANT PIPING.
2. ALL CONDENSATE DRAIN PIPE, REFRIGERANT PIPES AND ELECTRIC CABLE THAT THRU'S HIGH CIRE ROOM, FIRE ROOM AND SERVER ROOM SHALL SEALED WITH FIRE PROOF MATERIAL.
3. PROVIDE ACCESS PANEL TO ALL EQUIPMENT LOCATED AT FIXED CEILING.
4. IF THERE'S A PROBLEM ON CDP SLOPING AT THE NEAREST CDP ON NEAREST EXISTING CDP ABOVE POINT OF BASE BUILDING.

1 6TH FLOOR AIR-CONDITIONING, THERMOSTAT & PIPING LAYOUT
1:100

APPROVED FOR CONSTRUCTION

ArkiNovus
Meinhardt Philippines, Inc.

ENGINEER:
PROJECT TITLE: PROPOSED PEZA BIC OFFICE FITOUT
LOCATION:
OWNER: PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL - PEZA
SHEET CONTENTS: MECHANICAL SERVICES 6TH FLOOR AIR-CONDITIONING, THERMOSTAT & PIPING LAYOUT
FOR CONSTRUCTION DRAWINGS
SHEET NO.: M1-02
PROJ NO.: MP2550

NOTES:

E - EXISTING FCU/TAHU

N - NEW UNIT FCU/TAHU

RR - EXISTING RELOCATED

RE - REPLACEMENT FOR EXISTING FCU

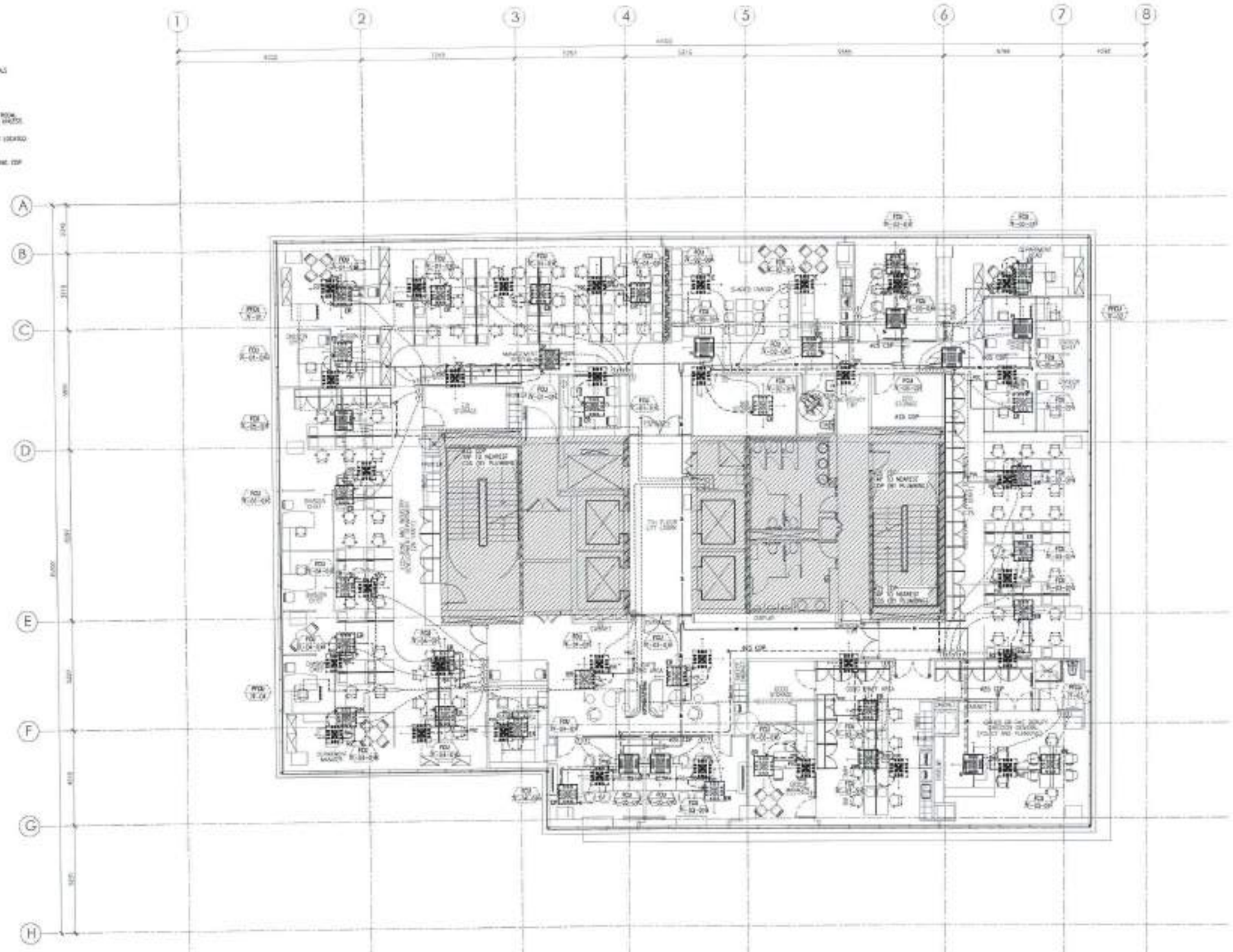
////// - DEMOLISHING OF EXISTING MATERIALS

1. CONNECT/TAP ALL EXISTING RELOCATED FCU'S TO EXISTING CONDENSATE DRAIN & REFRIGERANT PIPING.

2. ALL CONDENSATE DRAIN PIPE, REFRIGERANT PIPES AND EXISTING SHALL PASS THRU E. ROOM, LIFT LOBBY, MEP ROOM AND SERVER ROOM WHERE SEISMIC JOINT ARE.

3. PROVIDE ACCESS PANEL TO ALL EQUIPMENT LOCATED AT FIXED CEILING.

4. IF THERE'S A PROBABLE ON COP CLIPPING TAP THE AFFECTED COP ON NEAREST EXISTING COP TAPPING POINT OF SAME BUILDING.



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7TH FLOOR AIR-CONDITIONING, THERMOSTAT & PIPING LAYOUT

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT
Meinhardt Philippines, Inc.

ENGINEER

PROJECT TITLE
PROPOSED PEZA BIC OFFICE FITOUT

LOCATION: ROXAS BLVD, PASAY CITY, METRO MANILA, PHILIPPINES

OWNER:
PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL

SHEET CONTENTS
MECHANICAL SERVICES
7TH FLOOR
AIR-CONDITIONING, THERMOSTAT & PIPING LAYOUT

FOR CONSTRUCTION DRAWINGS

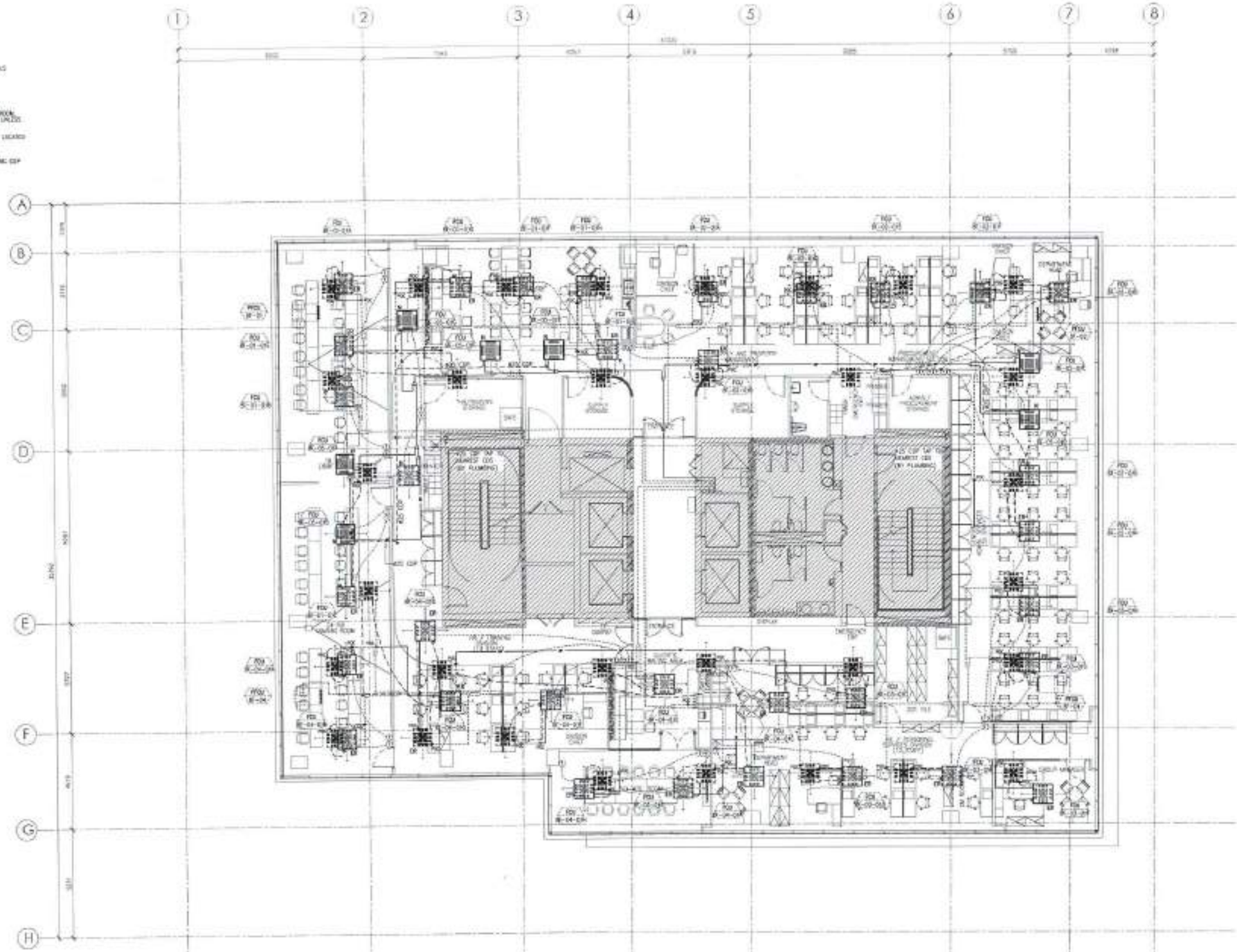
SHEET NO.
M1-03

PROJ NO. MP2558

NOTES:

- E – EXISTING FIXTURE
- N – NEW UNIT FIXTURE
- ER – EXISTING RELOCATED
- RE – REPLACEMENT FOR EXISTING FIX
- ////// – DEMOLITION OF EXISTING MATERIALS

1. CONNECT/TAP ALL EXISTING RELOCATED FCU'S TO EXISTING CONDENSATE DRAIN & REFRIGERANT PIPING.
2. NO CONDENSATE DRAIN PIPE, REFRIGERANT PIPES AND ELECTRIC SHALL PASS OVER IT, ROOM, VERTICAL SHAFT, DUCT ROOM AND ELEVATOR ROOM UNLESS CLEARLY THE WALL.
3. PROVIDE ACCESS PANEL TO ALL EQUIPMENT LOCATED AT FIXED CEILING.
4. IF THERE'S A PROBLEM ON CDP SLOPING TAP THE REFLECTED CDP ON NEAREST EXISTING CDP SUPPORT POINT OF GRID BUILDING.



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8TH FLOOR AIR-CONDITIONING, THERMOSTAT & PIPING LAYOUT

APPROVED FOR CONSTRUCTION

AridNovus

MEINHARDT
Meinhardt Philippines, Inc.

ENGINEER:

PROJECT TITLE: PROPOSED PEZA BIC OFFICE FITOUT

LOCATION:

OWNER: PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL AND CEO

SHEET CONTENTS: MECHANICAL SERVICES
8TH FLOOR
AIR-CONDITIONING, THERMOSTAT & PIPING LAYOUT

SHEET NO. M1-04

PROJ NO. MP0558

NOTES:

E – EXISTING FOUTAINS

N – NEW UNIT FOUTAINS

ER – EXISTING RELOCATED

RE – REPLACEMENT FOR EXISTING FCU

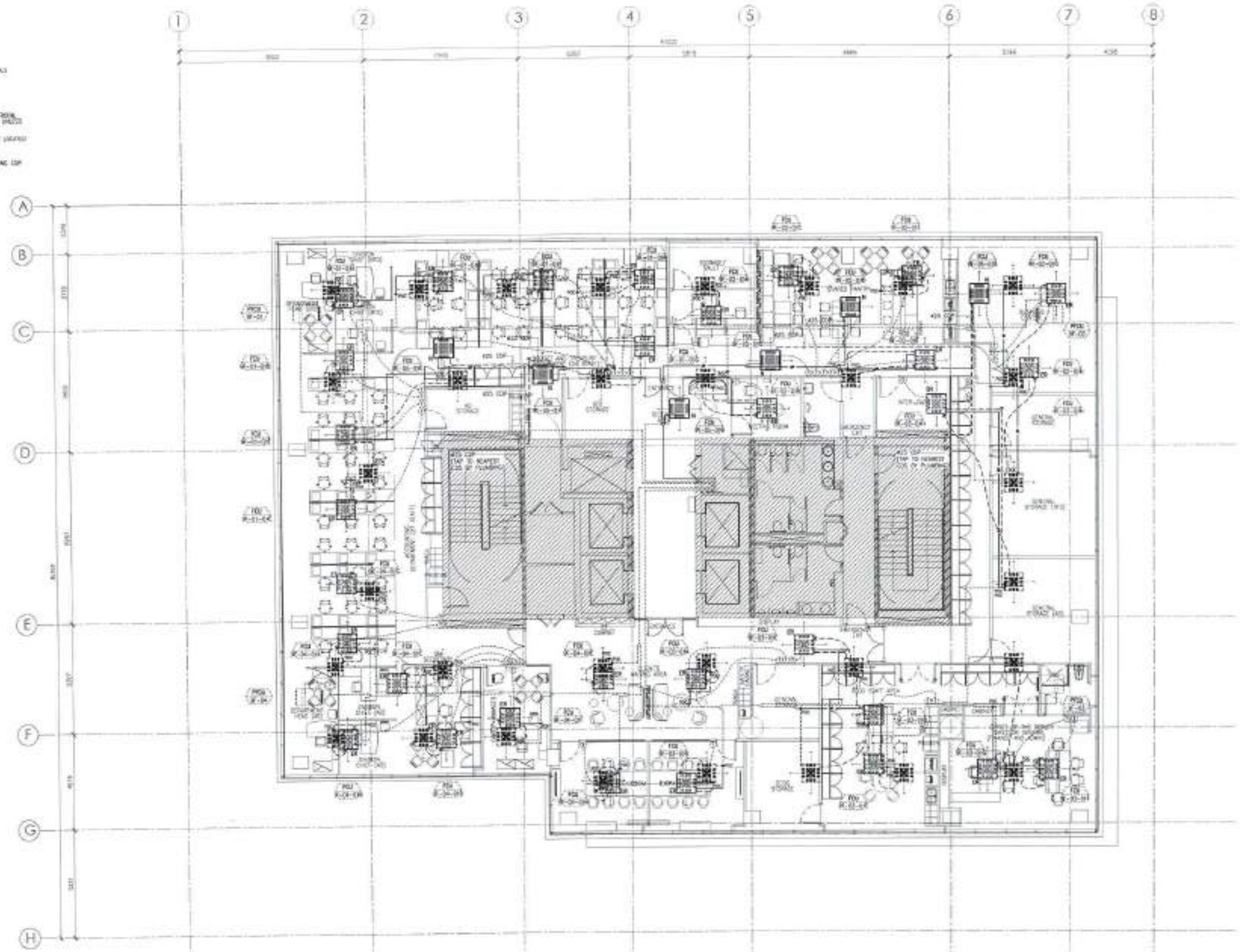
////// – DISMANTLING OF EXISTING MATERIALS

1. CONNECT/TAP ALL EXISTING RELOCATED FCU'S TO EXISTING CONDENSATE DRAIN & REFRIGERANT PIPES.

2. NO CONDENSATE DRAIN PIPE, REFRIGERANT PIPES AND ELECTRIC SHALL PASS THRU E. ROOM, SPT ROOM, HR ROOM AND SERVER ROOM UNLESS LEGEND THE AREA.

3. PROVIDE ACCESS PANEL TO ALL EQUIPMENT LOCATED AT FIXED CEILING.

4. IF THERE'S A PROBLEM ON CDP SUPPLY TAP THE AFFECTED CDP ON NEAREST CENTRAL CDP SUPPLY RISER OF SAME BUILDING.



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9TH FLOOR AIR-CONDITIONING, THERMOSTAT & PIPING LAYOUT

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT
Meinhardt Philippines, Inc.

ENGINEER:

PROJECT TITLE: PROPOSED PEZA BIC OFFICE FITOUT

LOCATION:

OWNER: PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL - PEZA

SHEET CONTENTS: MECHANICAL SERVICES
9TH FLOOR
AIR-CONDITIONING, THERMOSTAT & PIPING LAYOUT

SHEET NO.: M1-09

PROJ NO.: MP2558

NOTES

E – EXISTING FCU/FAN

N – NEW AHU FCU/FAN

ER – EXISTING RELOCATED

RE – REPLACEMENT FOR EXISTING FCU

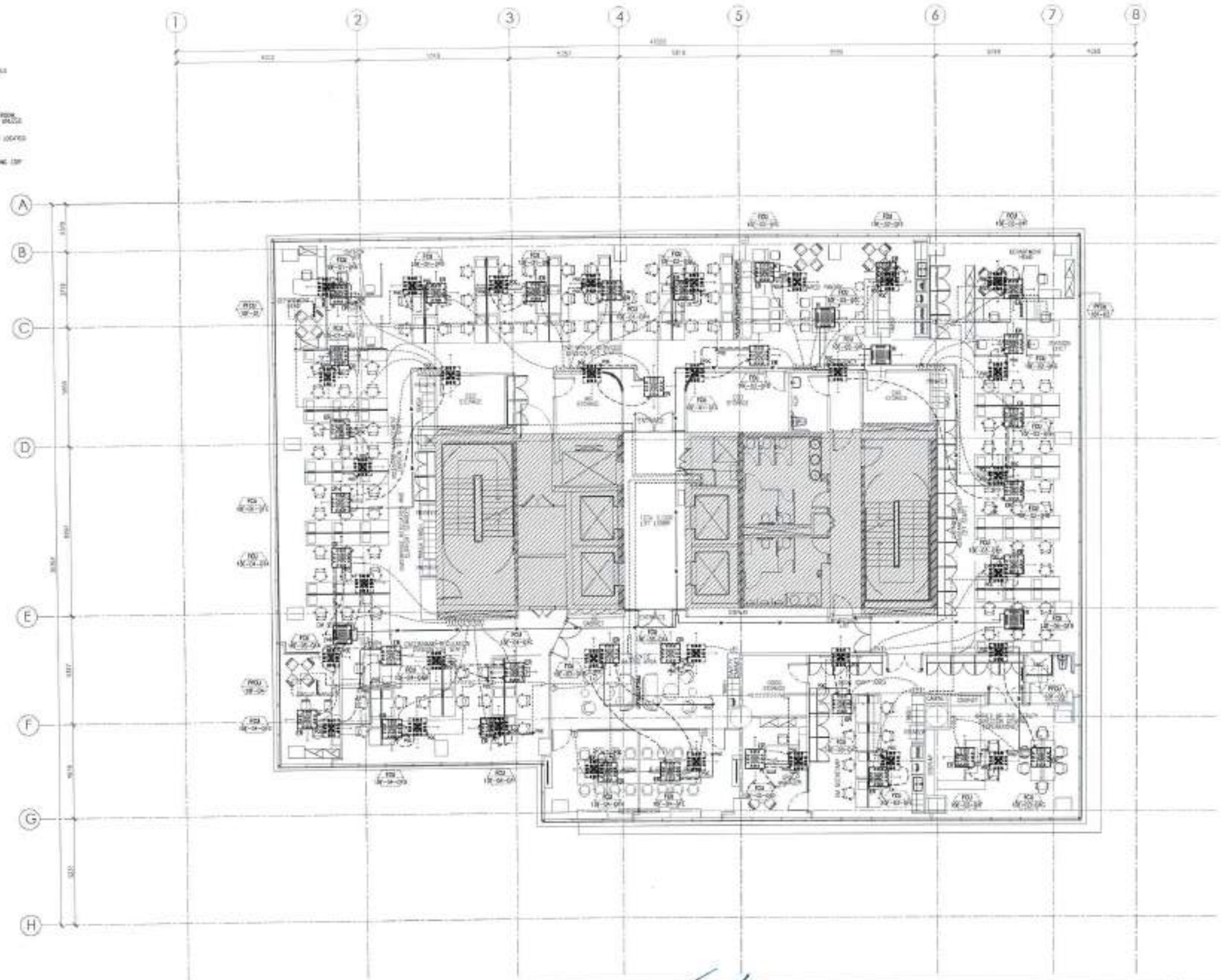
▨ – DEMOLISHING OF EXISTING MATERIALS

1. CONNECT/CAP ALL EXISTING RELOCATED DRAIN TO EXISTING CONDENSATE DRAIN & DISTRIBUTION PIPING.

2. NO CONDENSATE DRAIN PIPE, REFRIGERANT PIPES AND DUCTING SHALL PASS THRU E. ROOM, UPS ROOM, LV&D ROOM AND SERVERY ROOM UNLESS CLEARING THE AREA.

3. PROVIDE ACCESS PANEL TO ALL EQUIPMENT LOCATED AT FALSE CEILING.

4. IF THERE'S A PROVISION ON CDP SUPPLY, CAP THE UNTOUCHED CDP ON NEAREST EXISTING CDP SERVING PEMA OF SAME BUILDING.



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10TH FLOOR AIR-CONDITIONING, THERMOSTAT & PIPING LAYOUT

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT
Meinhardt Philippines, Inc.

ENGINEER:
PROFESSIONAL MECHANICAL ENGINEER

PROJECT TITLE
PROPOSED PEZA BIC OFFICE FITOUT

LOCATION:

OWNER:
PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL

SHEET CONTENTS:
MECHANICAL SERVICES
10TH FLOOR
AIR-CONDITIONING, THERMOSTAT & PIPING LAYOUT

SHEET NO.
M1-05

PROJ NO. MP2350

NOTES:

E – EXISTING FCU/FAN

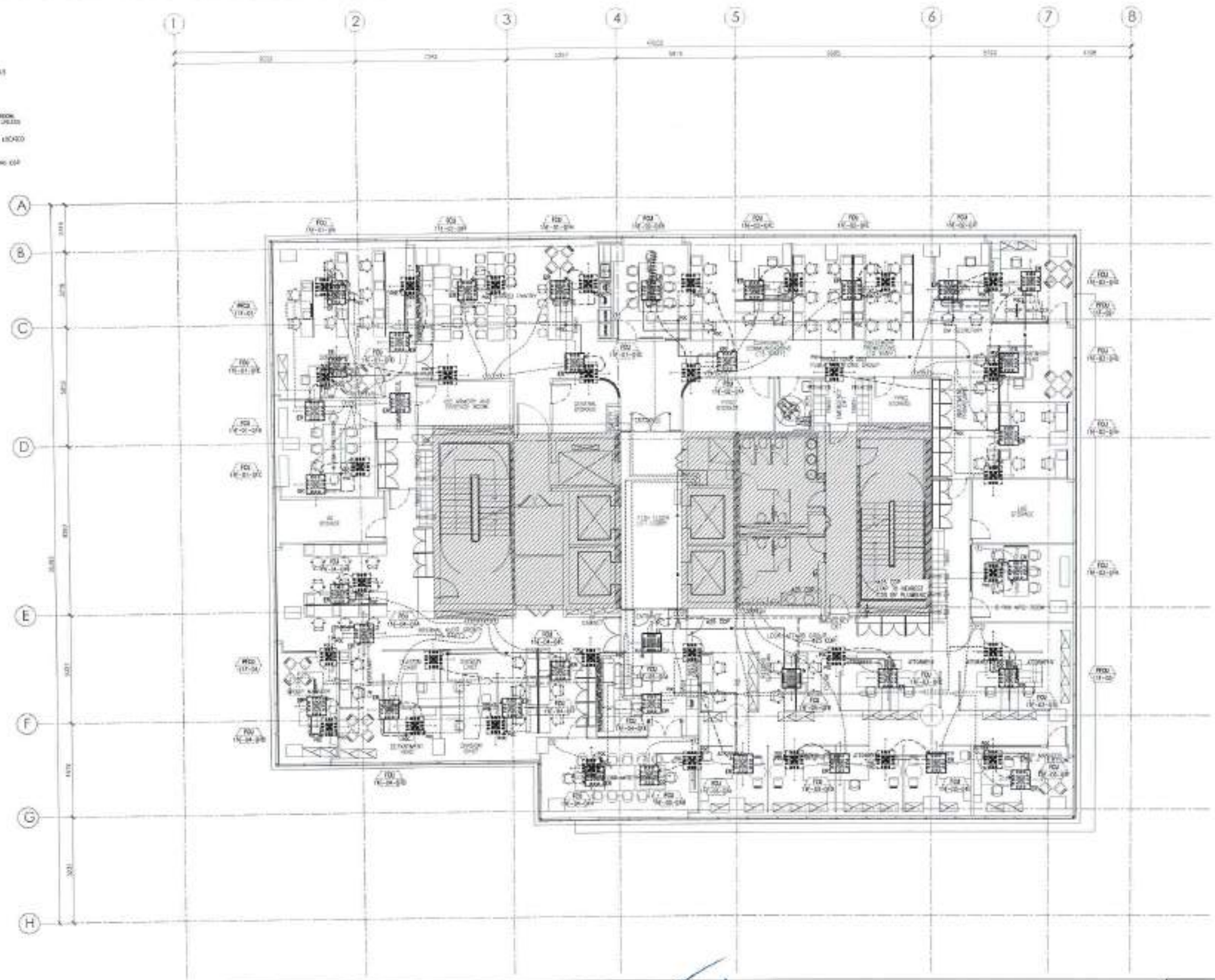
N – NEW UNIT FCU/FAN

ER – EXISTING RELOCATED

RE – REPLACEMENT FOR EXISTING FCU

▨ – SIGNIFICANT OF EXISTING MATERIALS

1. CONNECT/TAP ALL EXISTING RELOCATED FCU'S TO EXISTING CONDENSATE DRAIN & REFRIGERANT PIPES.
2. NO CONDENSATE DRAIN PIPE, REFRIGERANT PIPES AND EXISTING SPARE TAPS THRU CT ROOM, UPS ROOM, FACP ROOM AND SERVER ROOM UNLESS DEFINED THE AREA.
3. PROVIDE ACCESS PANEL TO ALL EQUIPMENT LOCATED AT FIXED CEILING.
4. IF THERE'S A PROBLEM ON COP SLOPING TAP THE AFFECTED COP ON NEAREST EXISTING COP HAVING POINTS OF MAKE BUILDING.



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11TH FLOOR AIR-CONDITIONING, THERMOSTAT & PIPING LAYOUT

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT
Meinhardt Philippines, Inc.

ENGINEER:

PROJECT TITLE:
PROPOSED PEZA BIC OFFICE FITOUT

LOCATION:

OWNER:
PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL

SHEET CONTENTS:
MECHANICAL SERVICES
11TH FLOOR
AIR-CONDITIONING, THERMOSTAT & PIPING LAYOUT

SHEET NO.
M1-07

PROJ NO. MP2558

NOTES:

E – EXISTING FCU/FAHU

N – NEW UNIT FCU/FAHU

DR – EXISTING RELOCATED

RE – REPLACEMENT FOR EXISTING FCU

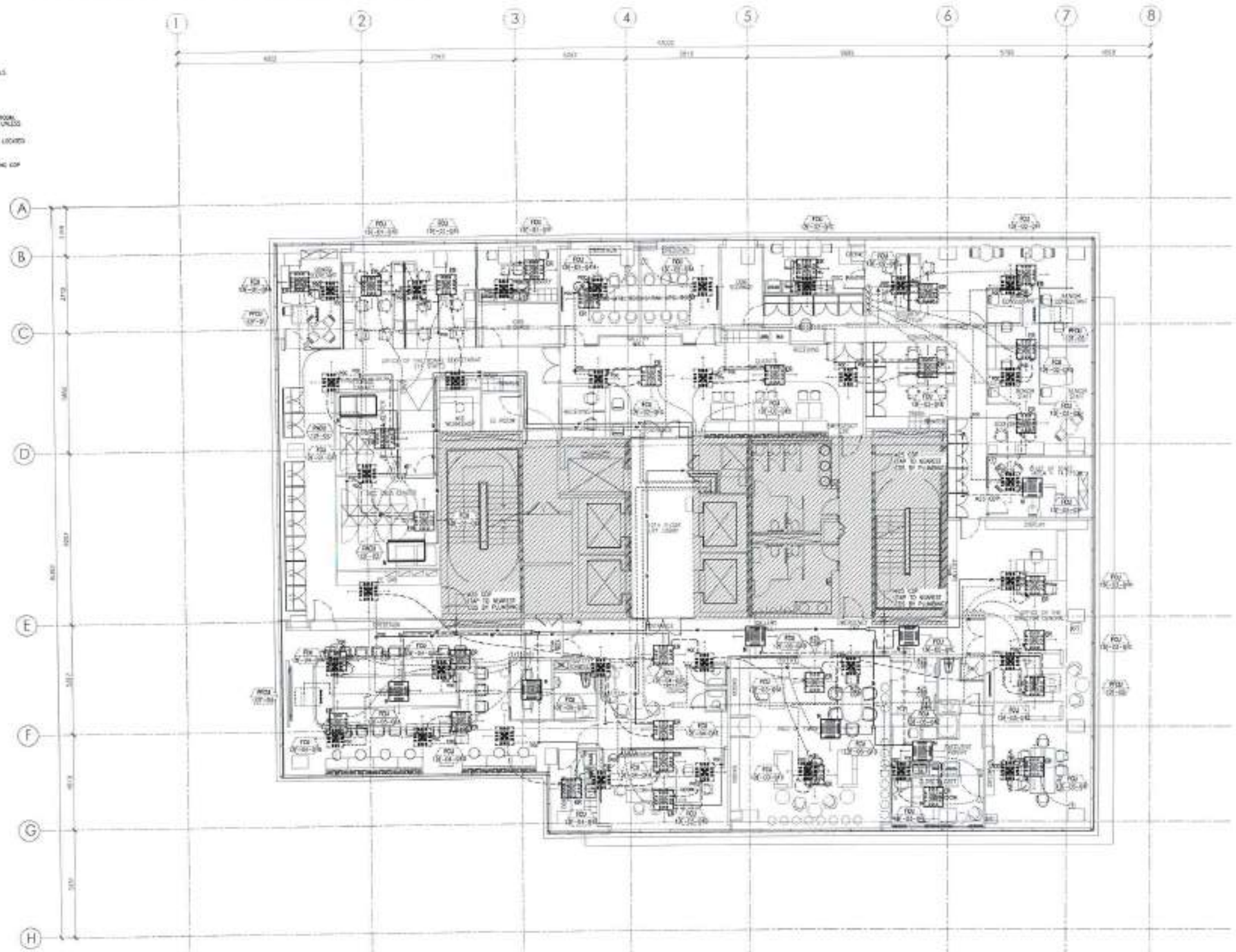
▨ – DISMANTLING OF EXISTING MATERIALS

1. CONNECT/TAP ALL EXISTING RELOCATED FCU'S TO EXISTING CONDENSATE DRAIN & REFRIGERANT PIPES.

2. NO CONDENSATE, DRAIN PIPE, REFRIGERANT PIPES AND CEILING DUCT PASS THRU IC ROOM, UPS ROOM, FCS ROOM AND SERVER ROOM UNLESS SERVING THE AREA.

3. PROVIDE ACCESS PANEL TO ALL EQUIPMENT LOCATED AT TAPS CEILING.

4. IF INDICATE A PROBLEM ON CDP SLOPING TAP THE APPROVED CDP ON HIGHEST EXISTING CDP HAVING POSE OF BASE BUILDING.



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12TH FLOOR AIR-CONDITIONING, THERMOSTAT & PIPING LAYOUT

APPROVED FOR CONSTRUCTION

ArkiNovus

Meinhardt Philippines, Inc.

ENGINEER:

PROFESSIONAL MECHANICAL ENGINEER

PROJECT TITLE:

PROPOSED PEZA BIC OFFICE FITOUT

LOCATION:

OWNER:

PHILIPPINE ECONOMIC ZONE AUTHORITY

TERESO O. PENGA

DIRECTOR GENERAL, PEZA

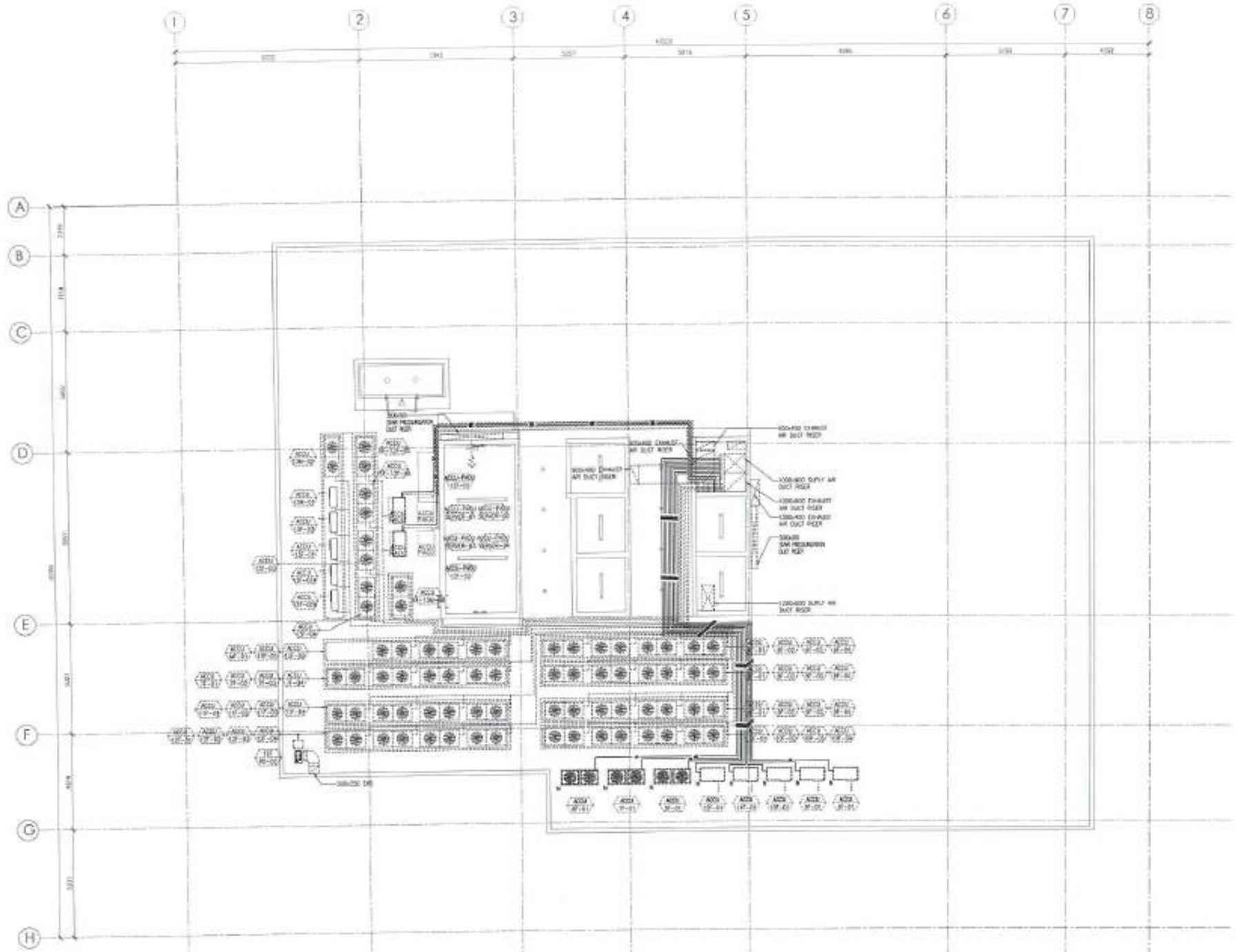
SHEET CONTENTS:

MECHANICAL SERVICES
12TH FLOOR
AIR-CONDITIONING, THERMOSTAT & PIPING LAYOUT

SHEET NO.

M1-00

PROJ NO.



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ROOF DECK AIR-CONDITIONING, THERMOSTAT & PIPING LAYOUT

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT
Meinhardt Philippines, Inc.

ENGINEER:

PROJECT TITLE
PROPOSED PEZA BIC OFFICE FITOUT

LOCATION

OWNER
PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA

SHEET CONTENTS
MECHANICAL SERVICES
ROOF DECK
AIR-CONDITIONING, THERMOSTAT & PIPING LAYOUT

SHEET NO.
M1-09

PROJ NO. MP2558

NOTES:

E – EXISTING FCU/FANS

N – NEW UNIT FCU/FANS

ER – EXISTING RELOCATED

RE – REPLACEMENT FOR EXISTING FCU

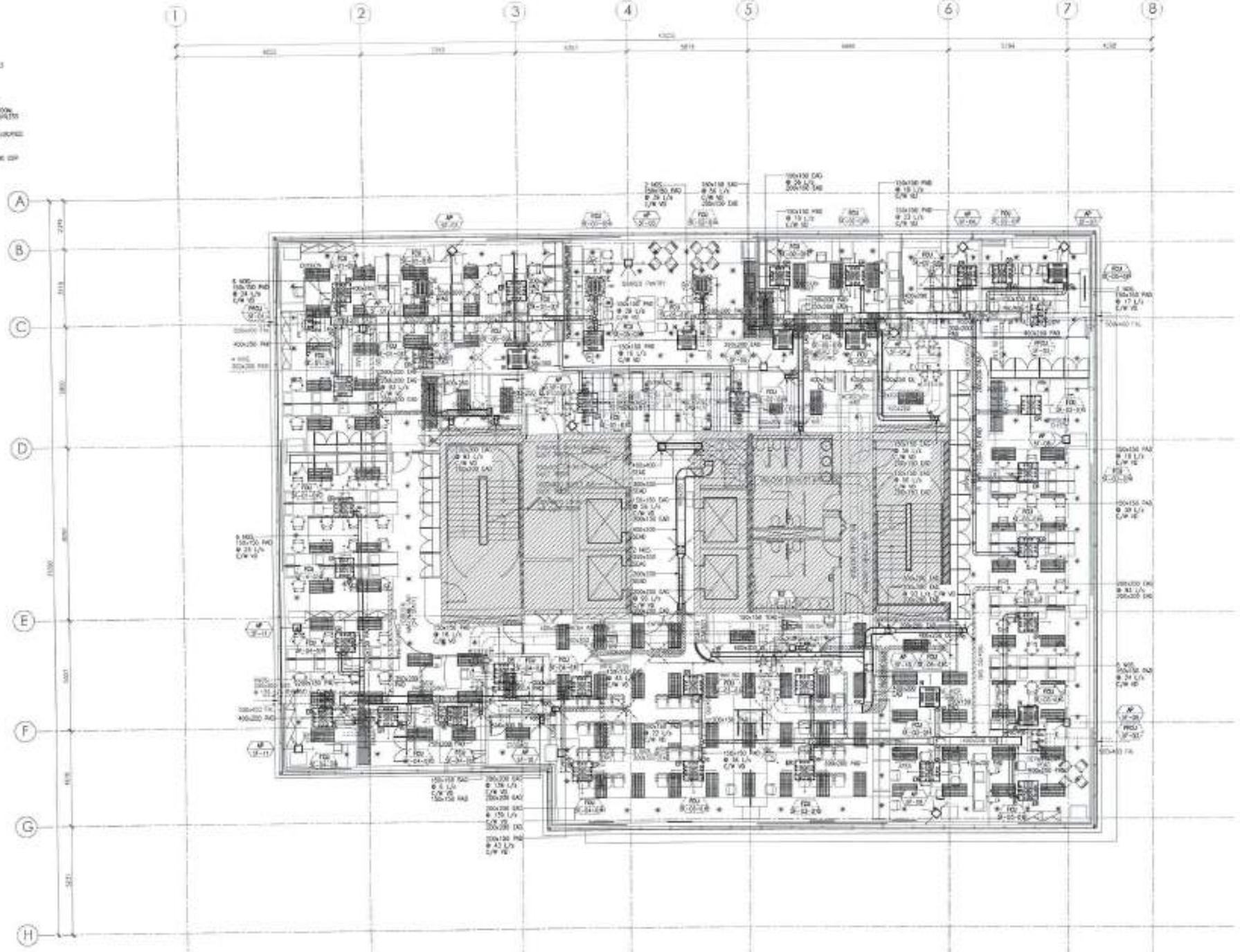
▨ – DEMOLITION OF EXISTING MATERIALS

1. CONNECT/TAP ALL EXISTING RELOCATED FCU'S TO EXISTING CONDENSATE DRAIN & REFRIGERANT PIPING.

2. NEW CONDENSATE DRAIN PIPE, REFRIGERANT PIPES AND DUCTING SHALL PASS THRU 1ST ROOM, 1ST FLOOR, HUB ROOM AND SERVER ROOM SHAFTS TO REACH THE AREA.

3. PROVIDE ACCESS PANEL TO ALL EQUIPMENT LOCATED AT FIXED CEILING.

4. IF THERE'S A PROBLEM ON CEP DUCTS, TAP THE AHU/FCU DUCTS ON SEGMENT EXISTING CEP SUPPLY FROM 5F SAGE BUILDING.



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1:100

5TH FLOOR VENTILATION LAYOUT

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT Philippines, Inc.

ENGINEER:

PROJECT TITLE: PROPOSED PEZA BIC OFFICE FITOUT

LOCATION: KAWASAKI HIGH CITY, METRO MANILA, PHILIPPINES

OWNER: PHILIPPINES ECONOMIC ZONE AUTHORITY

TERESO O. PANGA
DIRECTOR GENERAL

SHEET CONTENTS: MECHANICAL SERVICES
5TH FLOOR
VENTILATION LAYOUT

FOR CONSTRUCTION DRAWINGS

SHEET NO.: M1-10

PROJ NO.: MP2558

NOTES:

E – EXISTING FCU/FANS

N – NEW UNIT FCU/FANS

DE – EXISTING RELOCATED

RE – REPLACEMENT FOR EXISTING FCU

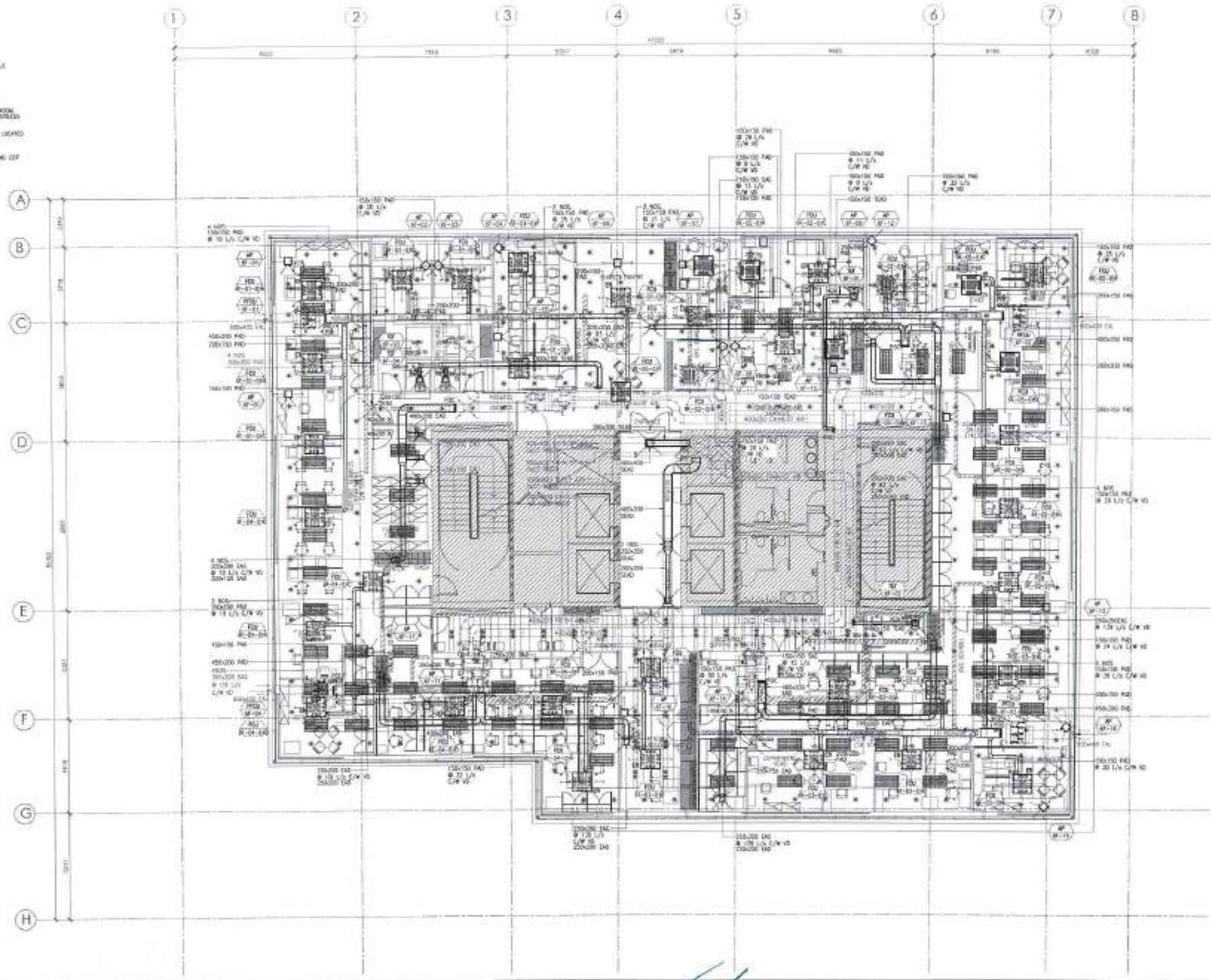
[hatched] – DEMOLISH OF EXISTING MATERIALS

1. CONNECT/TAP ALL EXISTING RELOCATED FCU'S TO EXISTING CONDENSATE DRAIN & REFRIGERANT PIPES.

2. NO CONDENSATE DRAIN PIPE, REFRIGERANT PIPES AND BUILDING SHALL PASS THRU IT ROOM, UPS ROOM, MDF ROOM AND SERVER ROOM UNLESS SERVING THE AREA.

3. PROVIDE ACCESS PANEL TO ALL EQUIPMENT LOCATED AT FALSE CEILING.

4. IF THERE'S A DISCREPANCY ON CFP SUPPLIED, DO NOT INSTALL CFP ON MARKED EXISTING CFP SERVING PART OF BASE BUILDING.



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1:100

6TH FLOOR VENTILATION LAYOUT

APPROVED FOR CONSTRUCTION

ArkiNovus

Meinhardt Philippines, Inc.

ENGINEER:

PROJECT TITLE: PROPOSED PEZA BIC OFFICE FITOUT

LOCATION:

OWNER: PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL - PEZA

SHEET CONTENTS: MECHANICAL SERVICES
6TH FLOOR
VENTILATION LAYOUT

SHEET NO. M1-11

PROJ NO. MP2258

NOTES:

E – EXISTING FCU/FANS

N – NEW UNIT FCU/FANS

ER – EXISTING RELOCATED

RE – REPLACEMENT FOR EXISTING FCU

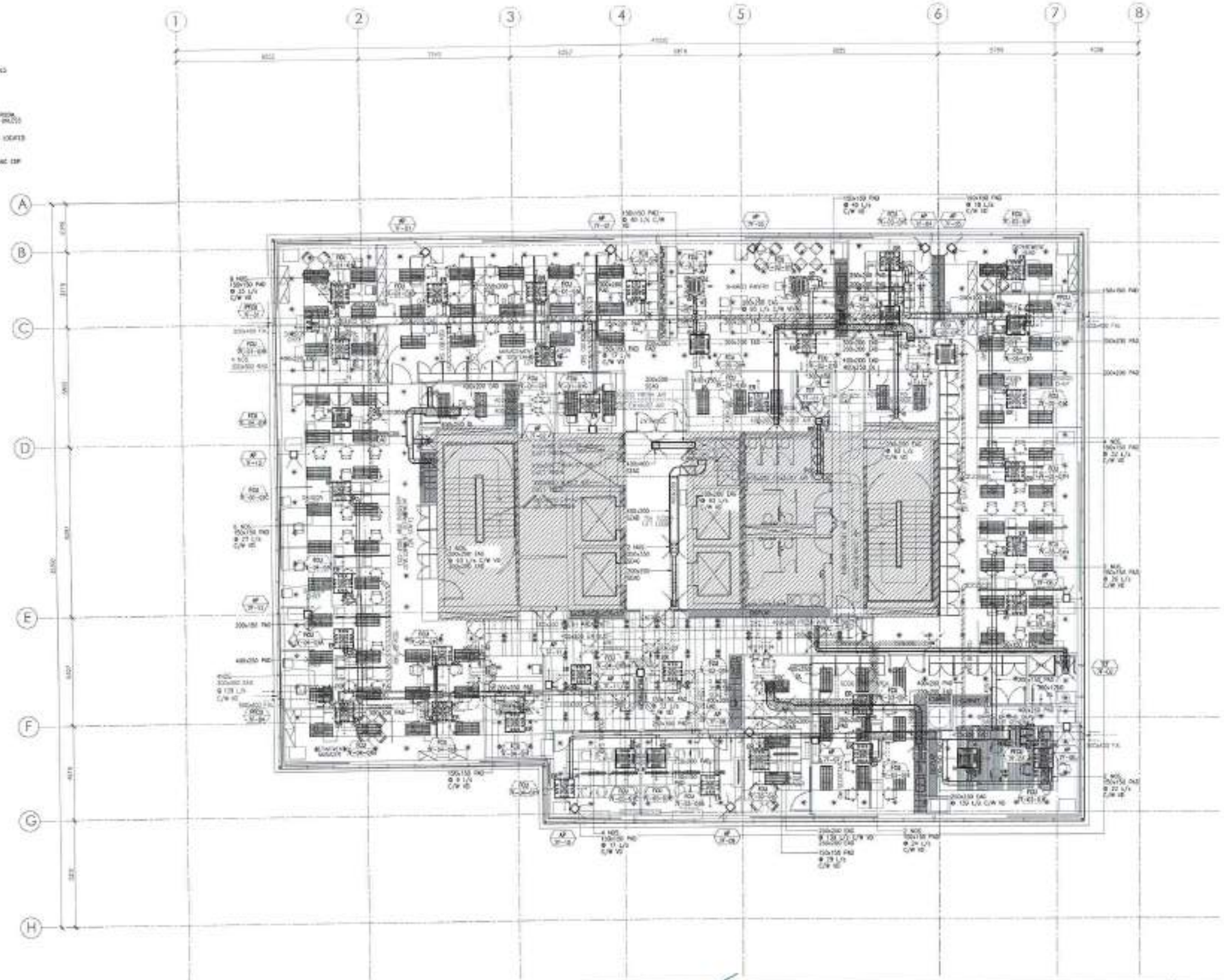
////// – DEMOLITION OF EXISTING MATERIALS

1. CONNECT/TAP ALL EXISTING RELOCATED FCU'S TO EXISTING CONDENSATE DRAIN & REFRIGERANT PIPING.

2. NO CONDENSATE DRAIN PIPE, REFRIGERANT PIPES AND BUILDING SHALL PASS THRU IC ROOM, UPS ROOM, MDF ROOM AND SERVER ROOM UNLESS SERVING THE AREA.

3. PROVIDE ACCESS PANEL TO ALL EQUIPMENT LOCATED AT FALSE CEILING.

4. IF THERE'S A PROBLEM ON CDP SUPPLY, TAP THE AFFECTED CDP ON NEAREST DISTANCE CDP SERVING POINT OF MISC BUILDING.



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7TH FLOOR VENTILATION LAYOUT

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT
Meinhardt Philippines, Inc.

ENGINEER:

PROJECT TITLE

PROPOSED PEZA BIC OFFICE FITOUT

LOCATION: ROXAS BLVD PASAY CITY, METRO MANILA, PHILIPPINES

OWNER:

PHILIPPINES ECONOMIC ZONE AUTHORITY

TERESO O. PANGA
DIRECTOR (GENERAL)

SHEET CONTENTS

MECHANICAL SERVICES
7TH FLOOR
VENTILATION LAYOUT

SHEET NO.

M1-12

PROJ NO. MP2350

NOTES:

E - EXISTING FIXTURES

N - NEW UNIT FIXTURES

ER - EXISTING RELOCATED

RE - REPLACEMENT FOR EXISTING FCU

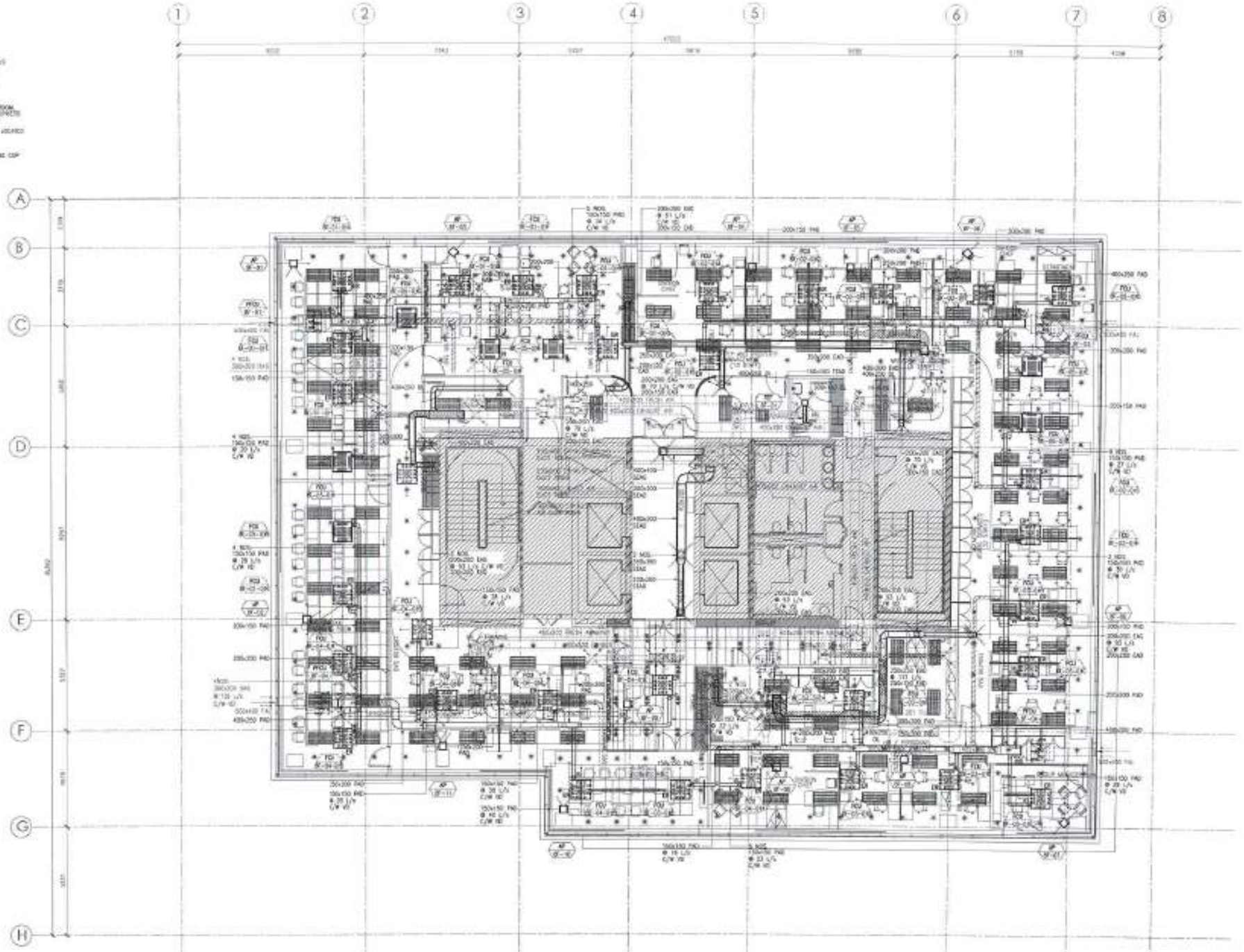
▨ - DISMANTLING OF EXISTING MATERIALS

1. CONNECT/TAP ALL CREATED RELOCATED FCU'S TO EXISTING CONDENSATE DRAIN & REFRIGERANT PIPING.

2. ADD CONDENSATE DRAIN PIPE, REFRIGERANT PIPES AND CIRCUITED CONTROL PIPES IN IT ROOM, UPS ROOM, MSB ROOM AND SERVER ROOM SPACES SERVING THIS AREA.

3. PROVIDE ACCESS PANEL TO ALL EQUIPMENT LOCATED AT FALSE CEILING.

4. IF THERE'S A PROBLEM ON LCP SUPPLY, TAP THE NEAREST LCP ON NEAREST EXISTING LCP TAPPING POINT OF MAIN BUILDING.



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8TH FLOOR VENTILATION LAYOUT

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT
Meinhardt Philippines, Inc.

ENGINEER:

PROJECT TITLE
PROPOSED PEZA BIC OFFICE FITOUT

LOCATION:

OWNER:
PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR

SHEET CONTENTS
MECHANICAL SERVICES
8TH FLOOR
VENTILATION LAYOUT

FOR CONSTRUCTION

SHEET NO.
M1-13

PROJ NO. MP2356

NOTES:

E - EXISTING FCU/FAHU

N - NEW UNIT FCU/FAHU

ER - EXISTING RELOCATED

RE - REPLACEMENT FOR EXISTING FCU

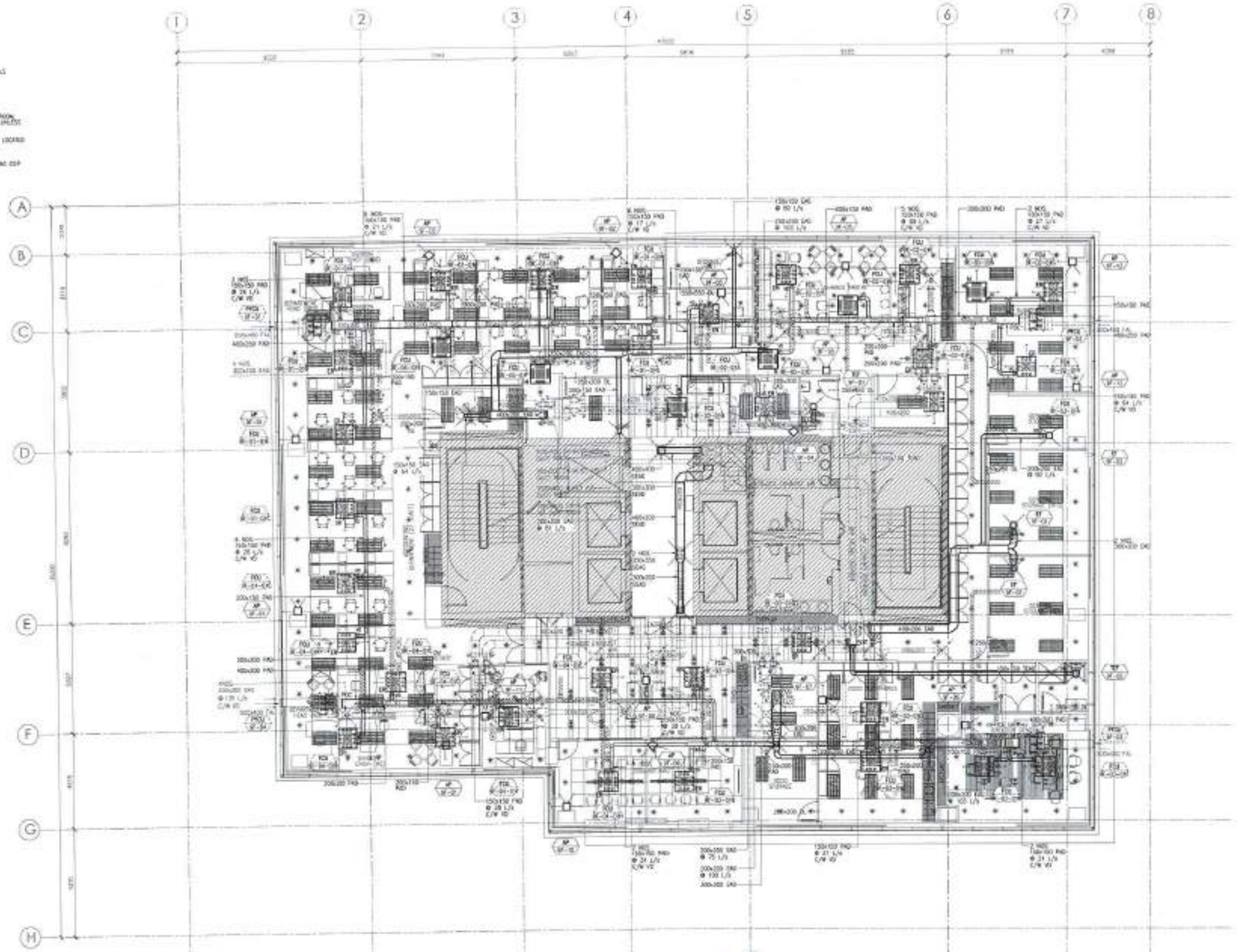
////// - DEMOLISHING OF EXISTING MATERIALS

1. CONNECT/TAP ALL EXISTING RELOCATED FCUS TO EXISTING CONDENSATE DRAIN & REFRIGERANT PIPING.

2. NO CONDENSATE DRAIN PIPE, REFRIGERANT PIPES AND DUCTWORK SHALL PASS THRU C ROOM, UPS ROOM, MDF ROOM AND SERVER ROOM UNLESS SERVING THE AREA.

3. PROVIDE ACCESS PANEL TO ALL EQUIPMENT LOCATED AT FIXED CEILING.

4. IF THERE'S A PROBLEM ON CDP SLOPING TAP THE ADJACENT CDP ON NEAREST EXISTING CDP SLOPING PORT OF MGC BUILDING



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9TH FLOOR VENTILATION LAYOUT

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT
Meinhardt Philippines, Inc.

ENGINEER

PROJECT TITLE
PROPOSED PEZA BIC OFFICE FITOUT

LOCATION

OWNER:
PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL

SHEET CONTENTS
MECHANICAL SERVICES
9TH FLOOR
VENTILATION LAYOUT

SHEET NO.
M1-14

PROJ NO. MP2324

NOTES:

E – EXISTING TO REMAIN

N – NEW UNIT TO LOCATE

DR – EXISTING RELOCATED

RE – REPLACEMENT FOR EXISTING FCU

▨ – DEMOLITION OF EXISTING MATERIALS

1. CONNECT/TAP ALL EXISTING RELOCATED SPLIT TYPE EXISTING CONDENSATE DRAIN & REFRIGERANT PIPES.

2. NO CONDENSATE DRAIN PIPE, REFRIGERANT PIPES AND CIRCUIT SHALL PASS THRU IT ROOM, LIFT, ELEVATOR, FILE ROOM AND TOILET ROOM UNLESS SERVING THE AREA.

3. PROVIDE ACCESS PANEL TO ALL EQUIPMENT LOCATED AT FALSE CEILING.

4. IF THERE'S A PROBLEM ON COP SLOPING DO THE DIFFERENCE COP ON NEAREST CEILING COP SLOPING POINT OF NEW BUILDING.

1 2 3 4 5 6 7 8

A B C D E F G H

1

1:100

10TH FLOOR VENTILATION LAYOUT

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT Philippines, Inc.

ENGINEER:

PROFESSIONAL MECHANICAL ENGINEER

PROJECT TITLE:

PROPOSED PEZA BIC OFFICE FITOUT

LOCATION:

OWNER:

PHILIPPINES ECONOMIC ZONE AUTHORITY

TERESO O. PANGA

DIRECTOR GENERAL / CEO

SHEET CONTENTS:

MECHANICAL SERVICES
10TH FLOOR
VENTILATION LAYOUT

FOR CONSTRUCTION

SHEET NO.

M1-15

PROJ NO. MP2355

NOTES:

E - EXISTING FCU/FANS

N - NEW UNIT FCU/FANS

ER - EXISTING RELOCATED

RE - REPLACEMENT FOR EXISTING FCU

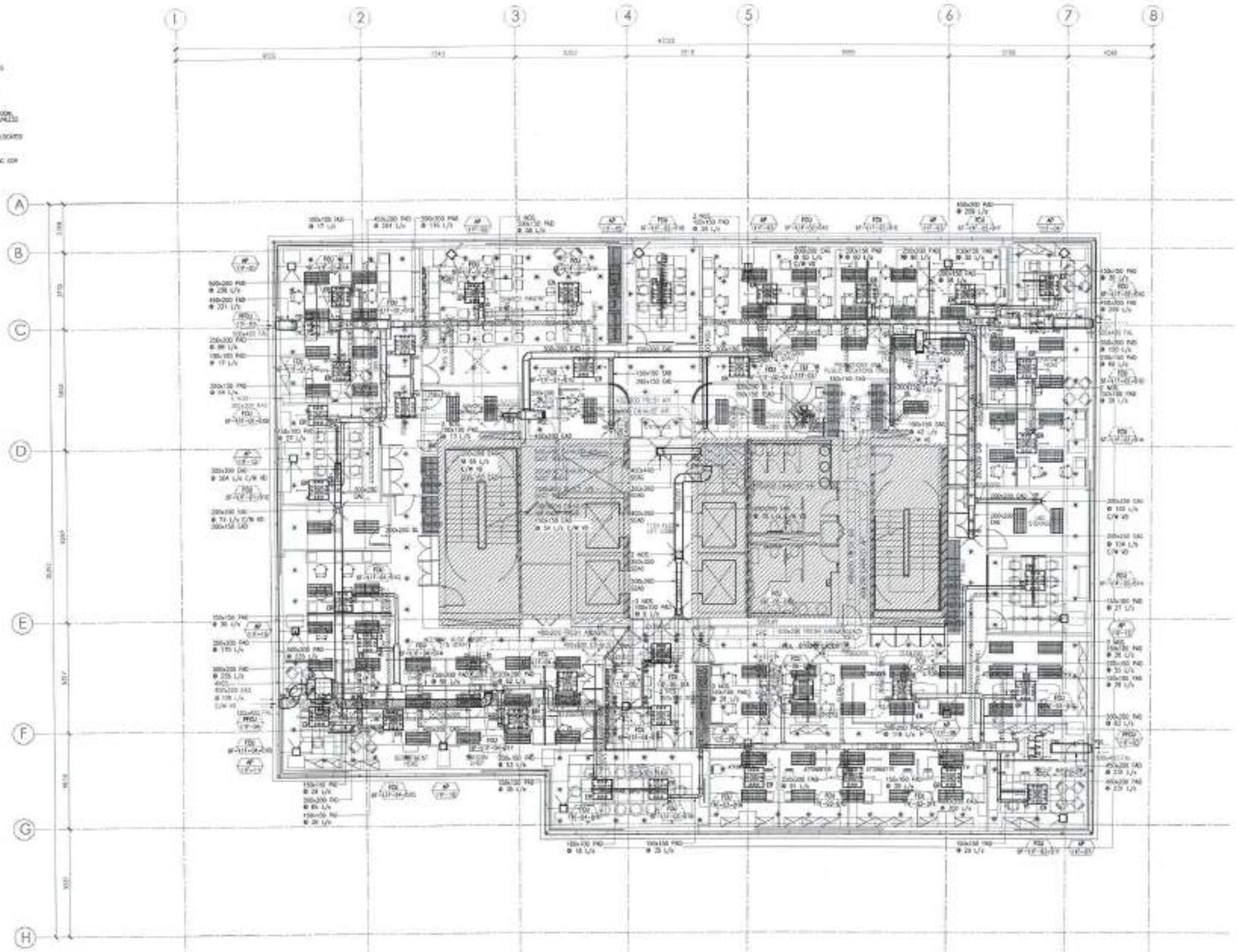
▨ - DISMANTLING OF EXISTING MATERIALS

1. CONNECT/TAP ALL EXISTING P/L/DUCTS/ FCU'S TO EXISTING CONDENSATE DRAIN & REFRIGERANT PIPES.

2. NO CONDENSATE DRAIN PIPE, REFRIGERANT PIPES, AND EXISTING DUCT SHALL PASS THRU SE ROOM, UPS ROOM, MDS ROOM AND SERVER ROOM UNLESS DEEMED THE SAME.

3. PROVIDE ACCESS PANEL TO ALL EQUIPMENT LOCATED AT FIXED CEILING.

4. IF THERE'S A PROBLEM ON CDP SLOPING, TAP THE EXISTING DROP FOR NEAREST EXISTING CDP BEFORE POINT OF SPLIT BUILDING.



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11TH FLOOR VENTILATION LAYOUT

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT
Meinhardt Philippines, Inc.

ENGINEER:
MARK JOHN C. TE
PROJECT MECHANICAL ENGINEER

PROJECT TITLE:
PROPOSED PEZA BIC OFFICE FITOUT

LOCATION:

OWNER:
PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL

SHEET CONTENTS:
MECHANICAL SERVICES
11TH FLOOR
VENTILATION LAYOUT

SHEET NO.
M1-16

PROJ NO. MP2556

NOTES:

E – EXISTING EQUIPMENT

N – NEW UNIT EQUIPMENT

DE – EXISTING RELOCATED

RE – REPLACEMENT FOR EXISTING FCU

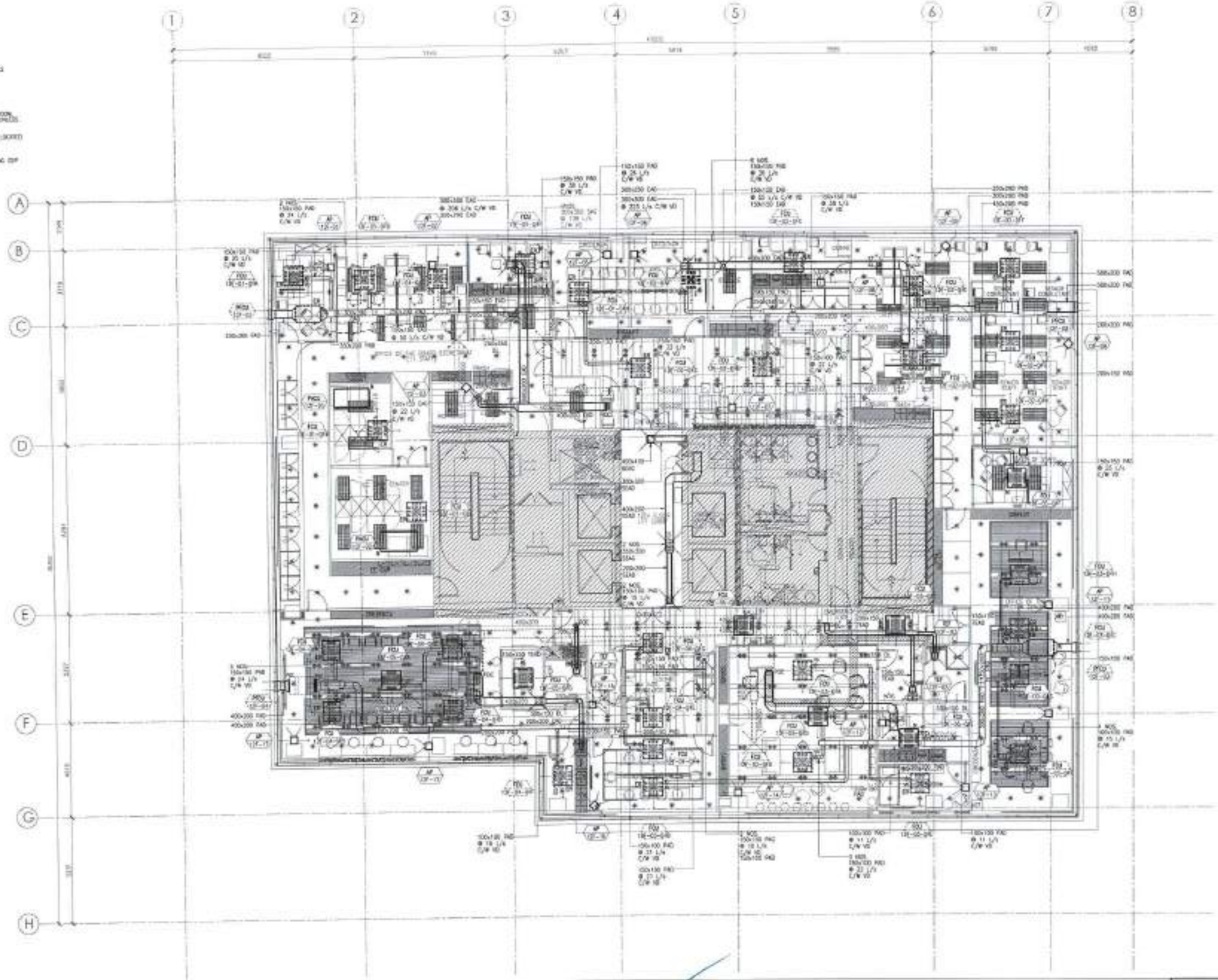
////// – DISMANTLING OF EXISTING MATERIALS

1. CONNECT/TAP ALL EXISTING RELOCATED DUCTS TO EXISTING CONDENSATE DRAIN & REFRIGERANT PIPING.

2. NEW CONDENSATE DRAIN PIPE, REFRIGERANT PIPES AND EXISTING SMALL TRADE TYPE IE. ROOM, OFFICE AREAS, MEN ROOM AND SERVER ROOM SPACES SERVING THE AREA.

3. EXISTING ACTUATED PANEL TO ALL EQUIPMENT (SHORT) AT FIXED CEILING.

4. IF THERE'S A PROBLEM ON CDP SLOPING, TAP THE EXISTING CDP ON NEAREST EXISTING CDP (MAKE POINT OF MAKE BUILDING).



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9:100

12TH FLOOR VENTILATION LAYOUT

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT
Meinhardt Philippines, Inc.

ENGINEER:

PROJECT TITLE: PROPOSED PEZA BIC OFFICE FITOUT

LOCATION: BONI AVE, MAY CITY, METRO MANILA, PHILIPPINES

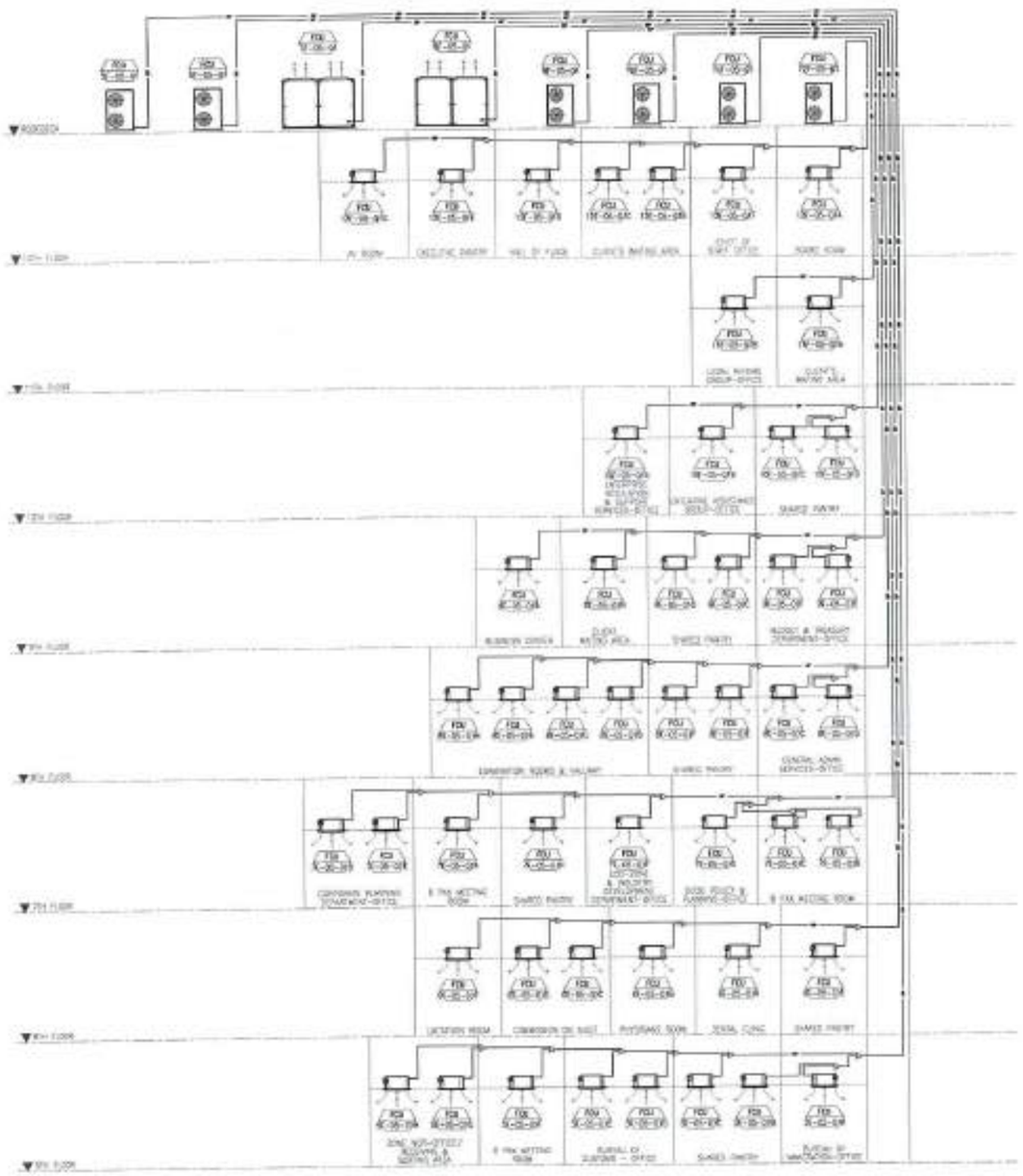
OWNER: PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL

SHEET CONTENTS: MECHANICAL SERVICES
12TH FLOOR
VENTILATION LAYOUT

					FOR CONSTRUCTION DRAWINGS	03/07/
ABB	PMB	MET			DESCRIPTION	DATE

SHEET NO.: M1-17

PROJ NO.: MP2358



APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT
Meinhardt Philippines, Inc.

ENGINEER:

PROJECT TITLE
PROPOSED PEZA BIC OFFICE FITOUT

LOCATION:

OWNER:
PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PASTOR

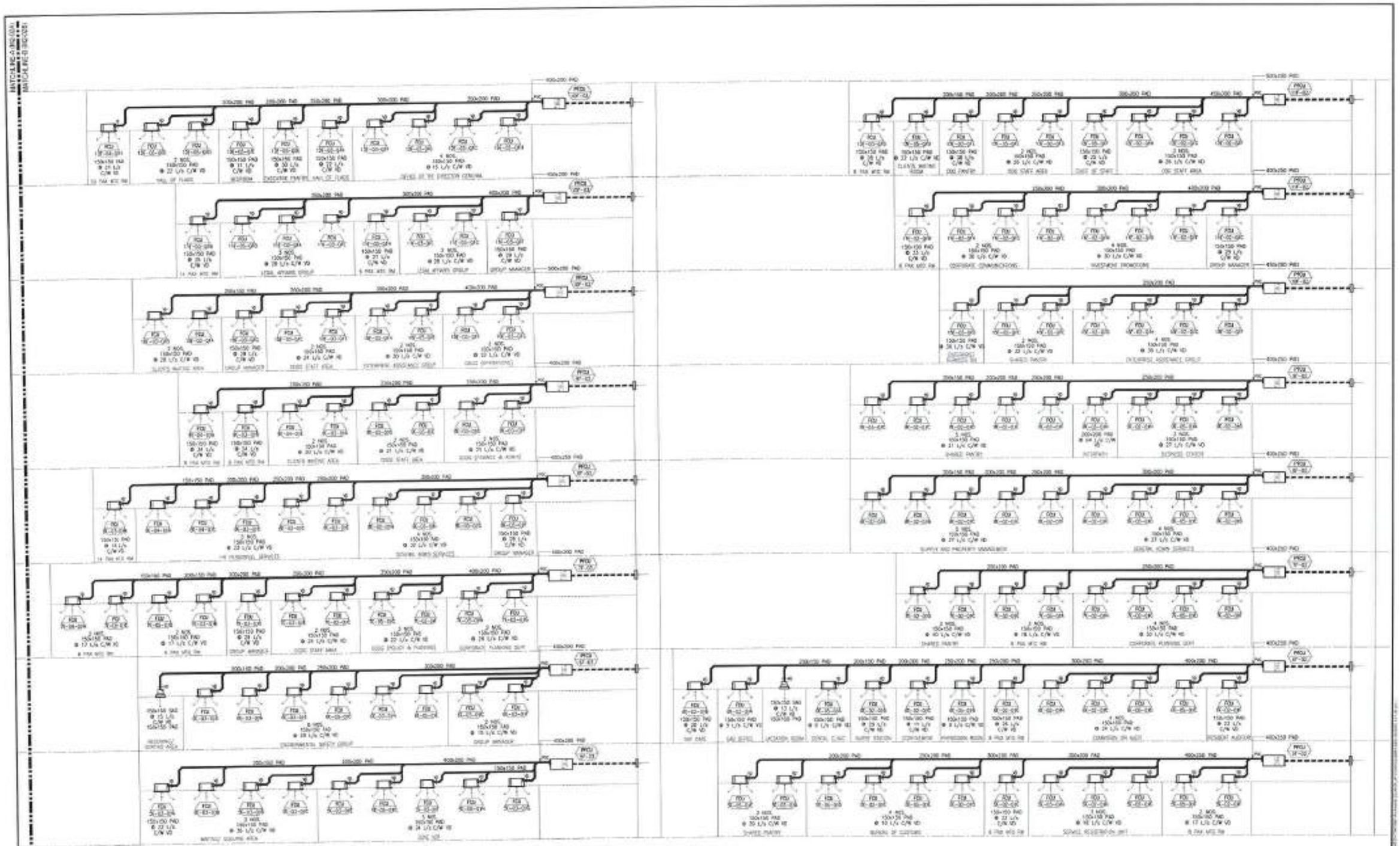
SHEET CONTENTS
MECHANICAL SERVICES
PROPOSED VRF REFRIGERANT PIPING
SCHEMATIC DIAGRAM

FRESH AIR SCHEMATIC DIAGRAM - PART 1

APPROVED FOR CONSTRUCTION

ENGINEER	MARK JOHN CRUZ, MECHANICAL ENGINEER
PROJECT TITLE	PROPOSED PEZA BIC OFFICE FITOUT
LOCATION	ROXAS BLVD, PASAY CITY, METRO MANILA, PHILIPPINES
OWNER	PHILIPPINES ECONOMIC ZONE AUTHORITY TERESO O. PANGA, DIRECTOR GENERAL - PEZA
SHEET CONTENTS	MECHANICAL SERVICES FRESH AIR SCHEMATIC DIAGRAM - PART 1
SHEET NO.	M2-03A
PROJ NO.	MP2358

ARKINOVUS | MEINHARDT Philippines, Inc.



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NTS

FRESH AIR SCHEMATIC DIAGRAM - PART 2

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT
Meinhardt Philippines, Inc.

ENGINEER:

PROJECT TITLE:
PROPOSED PEZA BIC OFFICE FITOUT

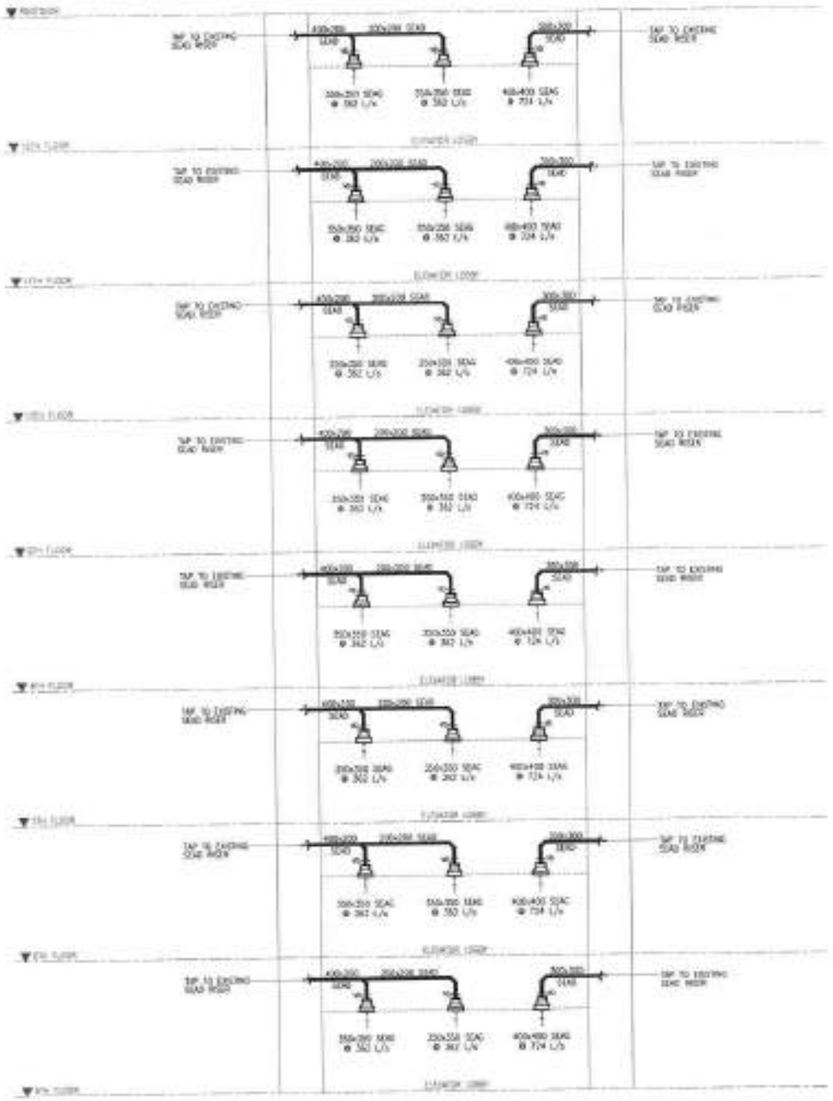
LOCATION:

OWNER:
PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESITA G. PANGA
DIRECTOR II (OIC)

SHEET CONTENTS:
MECHANICAL SERVICES
FRESH AIR
SCHEMATIC DIAGRAM - PART 2

SHEET NO.
M2-028

PROJ NO. MP22058



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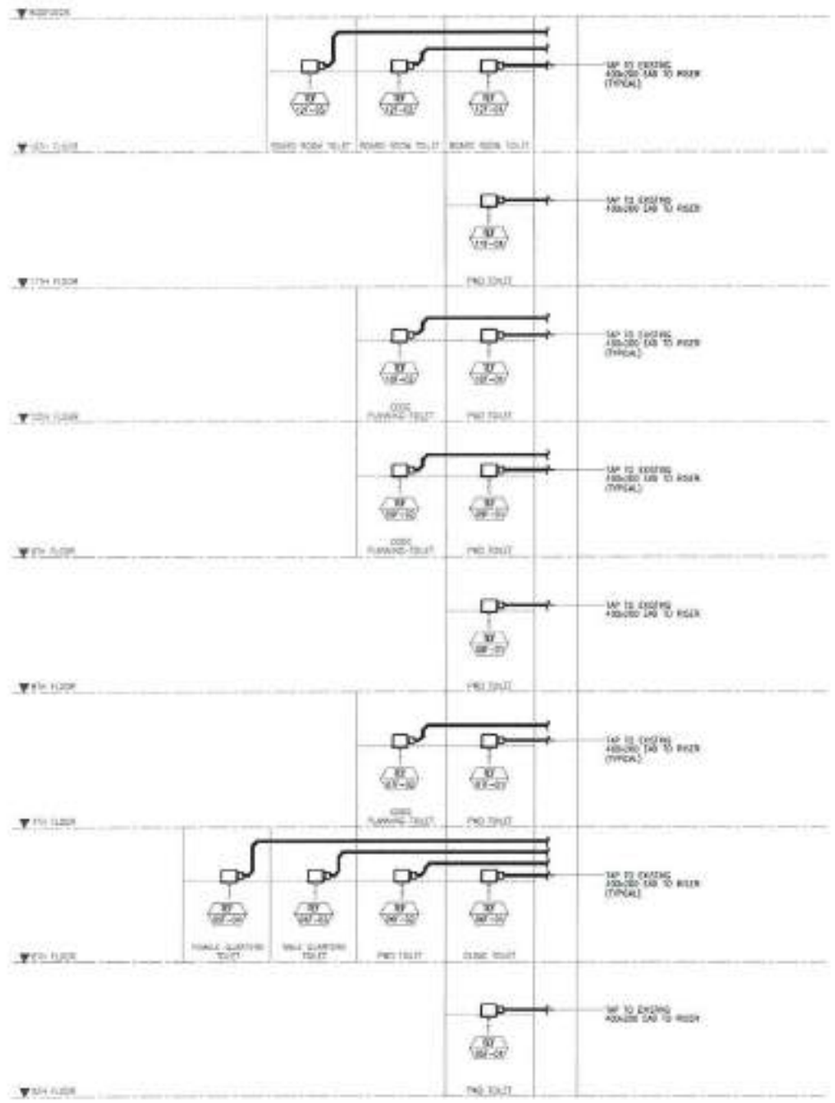
NTS

SMOKE EXTRACTION SCHEMATIC DIAGRAM



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NTS

TOILET EXHAUST SCHEMATIC DIAGRAM

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT
Meinhardt Philippines, Inc.

ENGINEER:

MARK JOHN C. [illegible]
PROFESSIONAL MECHANICAL ENGINEER

REV. NO.	PET	DATE	ISSUANCE
2TOTAL	REVISED	PLANS	PERMIT SET
REMARKS	[illegible]		

PROJECT TITLE

PROPOSED PEZA BIC OFFICE FITOUT

LOCATION: ROXAS BLVD, PASAY CITY, METRO MANILA, PHILIPPINES

OWNER:

PHILIPPINES ECONOMIC ZONE AUTHORITY

TERESO O. PANGA
DIRECTOR GENERAL

SHEET CONTENTS

MECHANICAL SERVICES
PROPOSED: SMOKE EXTRACTION & TOILET VENTILATION
SCHEMATIC DIAGRAM

VNE	PME	MET				
DRAWN BY	CHECKED BY	APPROVED BY	REV'N	DESCRIPTION	DATE	FOR CONSTRUCTION DRAWINGS

SHEET NO.

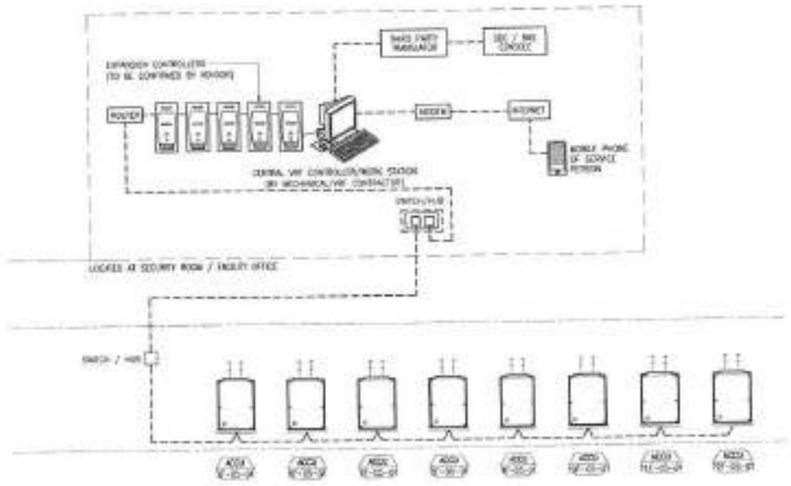
M2-03

PROJ NO. MP2355

NOTES

1. [illegible]

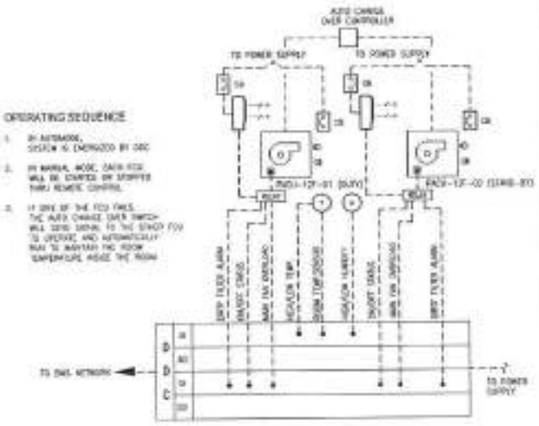
2. [illegible]



1 — PROPOSED CENTRAL VRF CONTROL DIAGRAM

OPERATING SEQUENCE

1. IN AUTOMODE, SYSTEM IS ENERGIZED BY DDC
2. IN MANUAL MODE, DATA FCU WILL BE STARTED OR STOPPED THRU REMOTE CONTROL
3. IF ONE OF THE FCU FAILS, THE AUTO CHANGE OVER SWITCH WILL SEND SIGNAL TO THE STANDBY FCU TO OPERATE AND AUTOMATICALLY RUN TO MAINTAIN THE ROOM TEMPERATURE INSIDE THE ROOM



2 — MIS AND ICC DATA CENTER FAN COIL UNIT CONTROL DIAGRAM

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT Philippines, Inc.

ENGINEER: MARK JOHN T. TE, PROFESSIONAL MECHANICAL ENGINEER

PROJECT TITLE: PROPOSED PEZA BIG OFFICE FITOUT

LOCATION: [illegible]

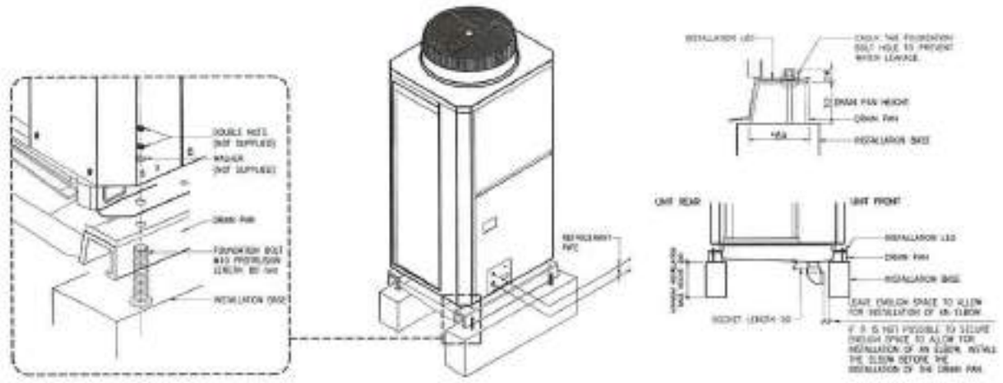
OWNER: PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL

SHEET CONTENTS: MECHANICAL SERVICES
PROPOSED CONTROL DIAGRAM

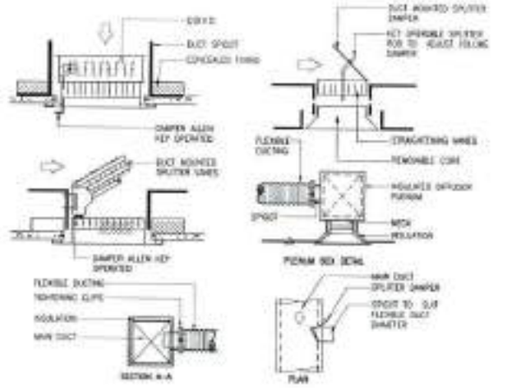
DOE CONSTRUCTION DRAWINGS

SHEET NO. M2-04

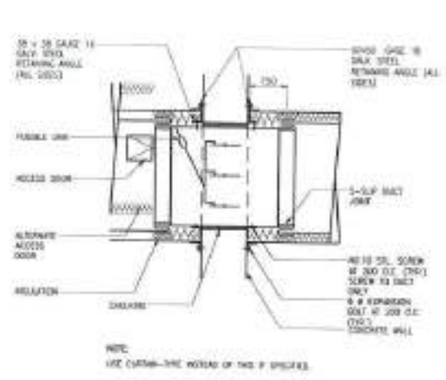
PROJ NO. MP2508



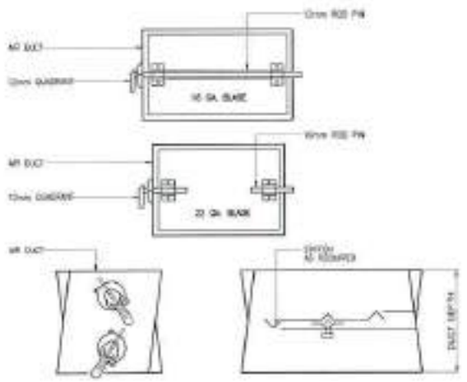
1 NTS — ACCU INSTALLATION DETAIL



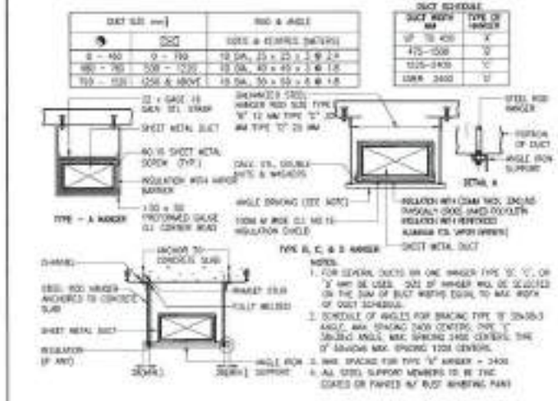
2 NTS — DIFFUSER AND REGISTER DETAILS



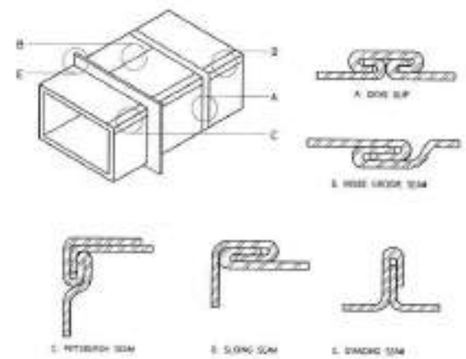
3 NTS — FIRE DAMPER DETAIL



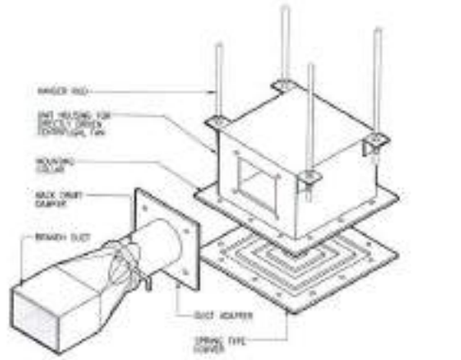
4 NTS — VOLUME DAMPER DETAIL



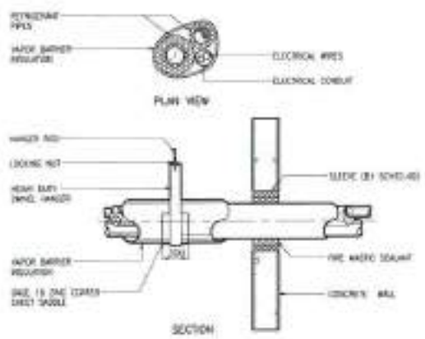
5 NTS — DUCT HANGER DETAIL



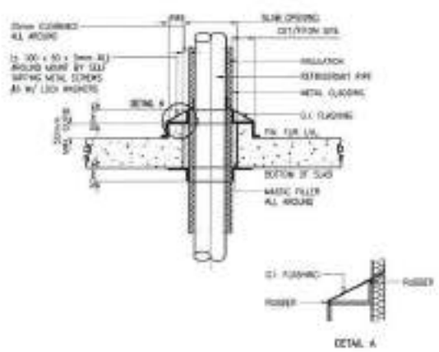
6 NTS — DUCT JOINT & SEAMS DETAIL



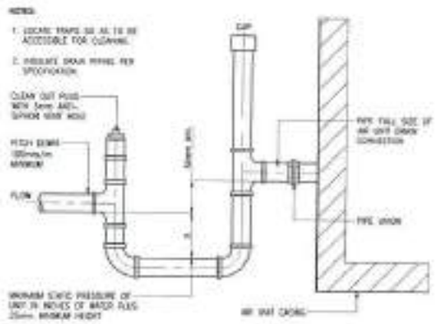
7 NTS — TOILET CEILING CASSETTE TYPE EXHAUST FAN DETAIL



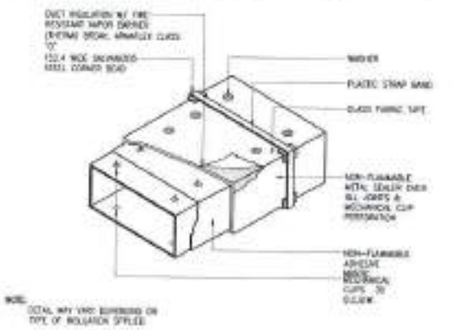
8 NTS — REFRIGERANT PIPES THRU WALL DETAIL



9 NTS — REFRIGERANT PIPE THRU FLOOR DETAIL



10 NTS — CONDENSATE DRAIN TRAP



11 NTS — DUCT EXTERNAL INSULATION DETAIL

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT Philippines, Inc.

ENGINEER:

PROJECT TITLE: PROPOSED PEZA BIC OFFICE FITOUT

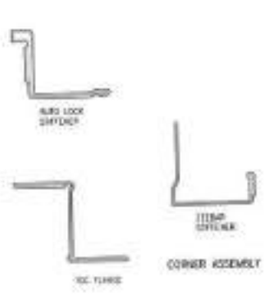
LOCATION:

OWNER: PHILIPPINES ECONOMIC ZONE AUTHORITY

TERESO O. PANO

SHEET CONTENTS: MECHANICAL SERVICES — MISCELLANEOUS DETAILS I

SHEET NO. M3-01



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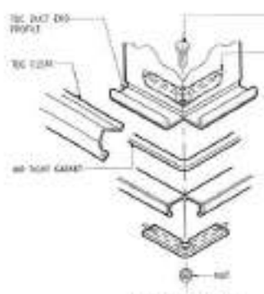

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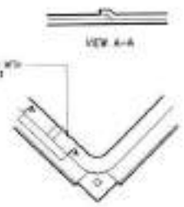
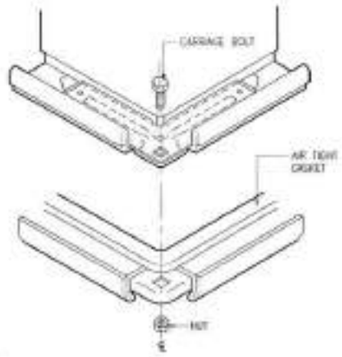
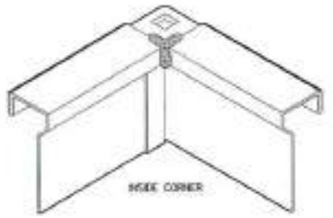


DUCT CONSTRUCTION DETAIL





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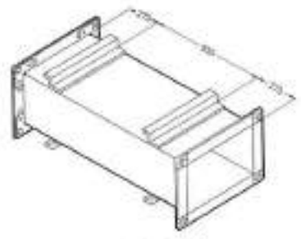
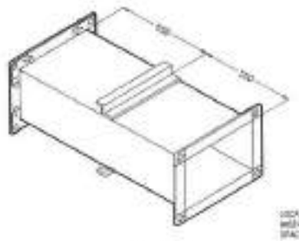
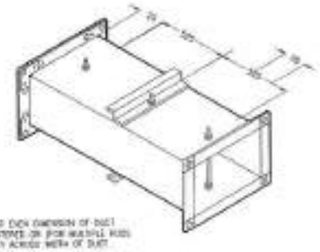


MULTIPLE ZEEBAR

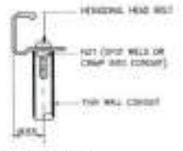


SINGLE ZEEBAR

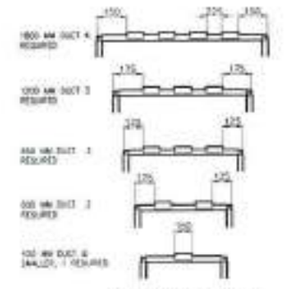


TIE ROD / ZEEBAR

DUCT REINFORCEMENT DETAIL



CONDUIT TIE ROD



RECOMMENDED CLIP SPACING

SHEET METAL THICKNESS & REINFORCEMENT SCHEDULE

DUCTWORK SYSTEM PRESSURE CLASSIFICATION : UP TO 250 Pa.

DUCT SIZE (MM)	SHEET METAL THICKNESS (MM)	REINFORCEMENT (MM)
UP TO 1200	0.58	NONE REQUIRED
1201 TO 1500	0.70	NONE REQUIRED
1501 TO 1800	0.70	50 X 38 X 5 COVERED BETWEEN FLANGES
1801 TO 2400	0.80	38 X 38 X 5 AT 550 SPACING
2401 AND OVER	1.00	50 X 38 X 5 COVERED BETWEEN FLANGES W/ 10MM DIA / TIE RODS AT 1200 MAX. SPACING ALONG JOINTS AND INTERMEDIATES.

DUCTWORK SYSTEM PRESSURE CLASSIFICATION : OVER 250 Pa. UP TO 500 Pa.

DUCT SIZE (MM)	SHEET METAL THICKNESS (MM)	REINFORCEMENT (MM)
UP TO 700	0.58	NONE REQUIRED
701 TO 900	0.70	NONE REQUIRED
901 TO 1500	0.70	38 X 38 X 5 COVERED BETWEEN FLANGES
1501 TO 1800	0.80	38 X 38 X 5 AT 550 SPACING
1801 TO 2100	1.00	50 X 50 X 5 AT 600 SPACING
2101 TO OVER	1.00	38 X 38 X 5 COVERED BETWEEN FLANGES W/ 10 MM DIA/TIE RODS AT 1200 MAX. SPACING ALONG JOINTS AND INTERMEDIATES

DUCTWORK SYSTEM PRESSURE CLASSIFICATION : OVER 500 Pa. TO 750 Pa.

DUCT SIZE (MM)	SHEET METAL THICKNESS (MM)	REINFORCEMENT (MM)
UP TO 700	0.70	NONE REQUIRED
701 TO 900	0.70	NONE REQUIRED
901 TO 1500	0.70	50 X 38 X 5 COVERED BETWEEN FLANGES
1501 TO 1800	0.80	38 X 38 X 5 AT 550 SPACING
1801 TO 2100	0.80	38 X 50 X 5 AT 600 SPACING
2101 TO OVER	1.00	50 X 38 X 5 COVERED BETWEEN FLANGES W/ 10MM DIA / TIE RODS AT 1200 MAX. SPACING ALONG JOINTS AND INTERMEDIATES

DUCTWORK SYSTEM PRESSURE CLASSIFICATION : OVER 750 Pa. TO 1000 Pa.

DUCT SIZE (MM)	SHEET METAL THICKNESS (MM)	REINFORCEMENT (MM)
UP TO 700	0.80	NONE REQUIRED
701 TO 900	0.70	38 X 38 X 5 COVERED BETWEEN FLANGES
901 TO 1500	0.70	38 X 38 X 5 COVERED BETWEEN FLANGES
1501 TO 1800	1.00	38 X 38 X 5 AT 550 SPACING
1801 TO 2400	1.00	50 X 38 X 5 COVERED BETWEEN FLANGES W/ 10 MM DIA/TIE RODS AT 1200 MAX. SPACING ALONG JOINTS AND INTERMEDIATES
2401 AND OVER		

DUCTWORK SYSTEM PRESSURE CLASSIFICATION : OVER 1000 Pa. TO 1500 Pa.

DUCT SIZE (MM)	SHEET METAL THICKNESS (MM)	REINFORCEMENT (MM)
UP TO 600	0.70	NONE REQUIRED
601 TO 900	0.80	NONE REQUIRED
901 TO 1200	0.80	38 X 38 X 5 COVERED BETWEEN FLANGES
1201 TO 1600	0.80	38 X 38 X 6 AT 550 SPACING
1601 TO 2400	1.00	50 X 38 X 6 COVERED BETWEEN FLANGES W/ 10MM DIA / TIE RODS AT 1200 MAX. SPACING ALONG JOINTS AND INTERMEDIATES.
2401 AND OVER	1.20	

DUCTWORK SYSTEM PRESSURE CLASSIFICATION : OVER 1500 Pa. TO 2500 Pa.

DUCT SIZE (MM)	SHEET METAL THICKNESS (MM)	REINFORCEMENT (MM)
UP TO 600	0.70	19 X 19 X 1.0 AT 1600 SPACING
601 TO 900	0.80	19 X 19 X 1.0 AT 1600 SPACING
901 TO 1200	0.80	25 X 25 X 3 AT 800 SPACING
1201 TO 1500	1.00	32 X 32 X 3 AT 800 SPACING
1501 TO 1800	1.00	38 X 38 X 6 AT 750 SPACING
1801 TO 2100	1.00	50 X 50 X 5 AT 750 SPACING
2101 TO 2400	1.20	63 X 63 X5 AT 600 SPACING
2401 TO 2700	1.20	63 X 63 X 6 AT 450 SPACING
2701 TO 3000	1.20	75 X 75 X 6 AT 450 SPACING
3001 TO 3300	1.20	38 X 38 X 6 AT 600 SPACING W/ 10MM DIA/TIE RODS AT 1200 MAX. SPACING ALONG JOINTS AND INTERMEDIATES
3301 TO 3600	1.20	
3601 AND OVER	1.60	

1

NTS

DUCT CONSTRUCTION DETAIL

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT
Meinhardt Philippines, Inc.

ENGINEER:

PROJECT TITLE

PROPOSED PEZA BIC OFFICE FITOUT

LOCATION:

OWNER:

PHILIPPINES ECONOMIC ZONE AUTHORITY

TERESO O. PANGA

SHEET CONTENTS

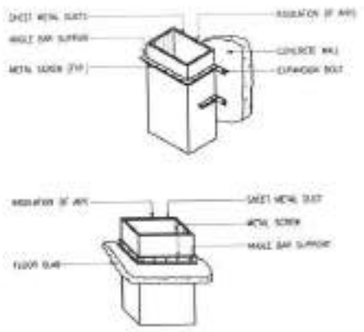
MECHANICAL SERVICES

MISCELLANEOUS DETAILS 2

SHEET NO.

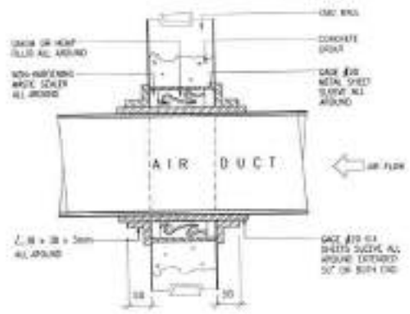
M3-02

PROJ NO. MP2058



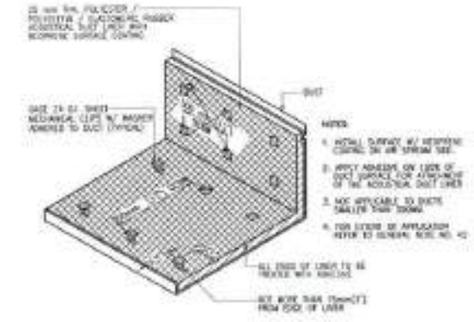
1 NTS

VERTICAL DUCT HANGER DETAIL



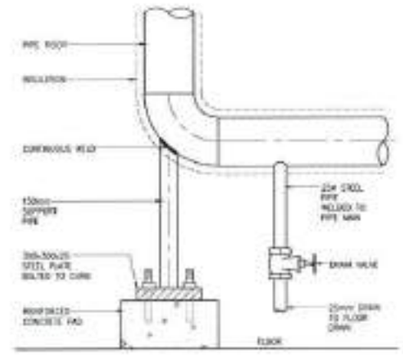
2 NTS

DUCT THRU WALL DETAIL



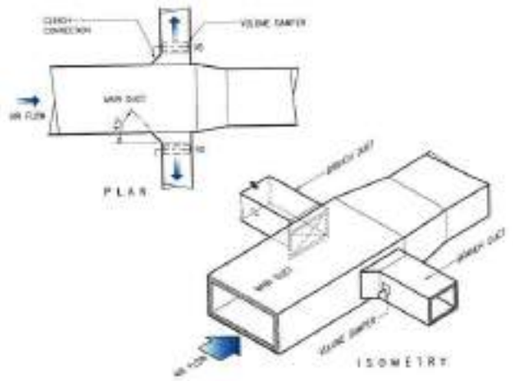
3 NTS

ACOUSTIC DUCT LINER INSULATION DETAIL



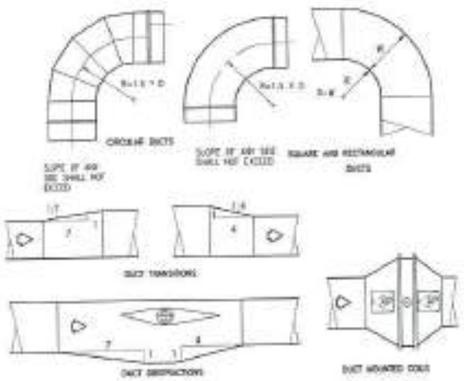
4 NTS

PIPE FLOOR MOUNTING DETAIL



5 NTS

TYPICAL BRANCH DUCT DETAIL



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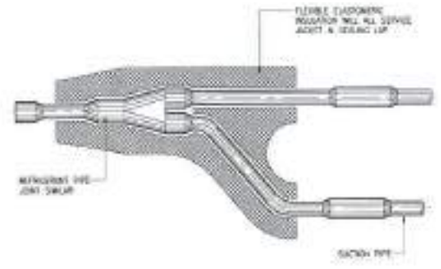
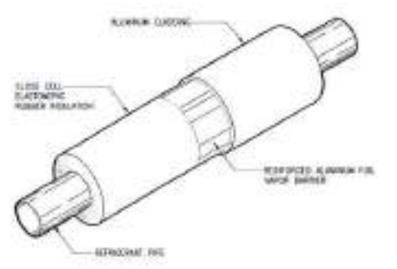
DUCTWORK BEND & TAPER DETAILS



7 NTS

VRV REFRIGERANT PIPE INSULATION DETAIL



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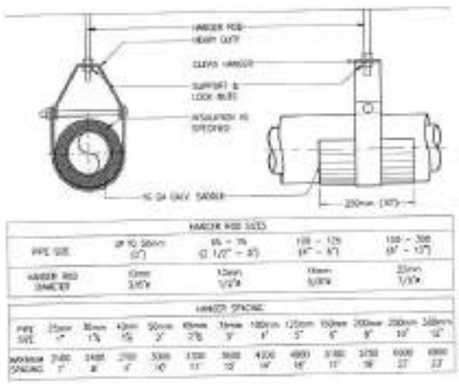
PIPE INSULATION DETAIL



HANGER ROD SIZES

PIPE SIZE	UP TO 200mm (8")	65 – 75 (2 1/2" – 3")	100 – 125 (4" – 5")	150 – 200 (6" – 12")
HANGER ROD DIAMETER	10mm 3/8"ø	12mm 1/2"ø	16mm 5/8"ø	22mm 1/8"ø

HANGER SPACING

PIPE SIZE	25mm 1"	30mm 1¼	42mm 1½	50mm 2"	65mm 2½	75mm 3"	100mm 4"	125mm 5"	150mm 6"	200mm 8"	250mm 10"	300mm 12"
MAXIMUM SPACING	2100 7'	2400 8'	2700 9'	3000 10'	3300 11'	3600 12'	4200 14'	4800 16'	5100 17'	5700 19'	6600 22'	6900 23'

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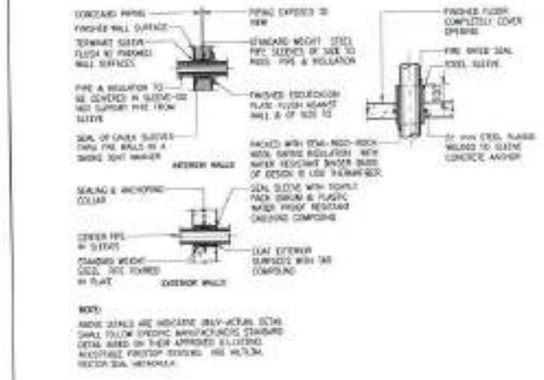
PIPE HANGER DETAIL



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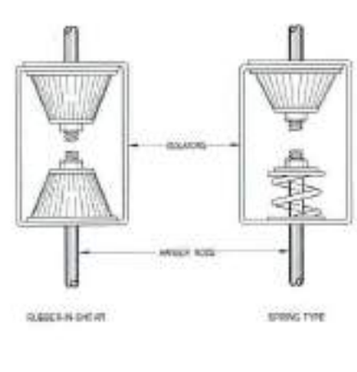
TYPICAL PIPE SLEEVE DETAIL



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VIBRATION ISOLATOR DETAIL

APPROVED FOR CONSTRUCTION

ArkiNovus

MEINHARDT Meinhardt Philippines, INC.

ENGINEER: MARK JOHN [illegible] PROFESSIONAL MECHANICAL ENGINEER

PROJECT TITLE: PROPOSED PEZA BIC OFFICE FITOUT

LOCATION: ROXAS BLVD PASAY CITY, METRO MANILA, PHILIPPINES

OWNER: PHILIPPINES ECONOMIC ZONE AUTHORITY
TERESO O. PANGA
DIRECTOR GENERAL

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SHEET NO. M3-03

PROJ NO. MP2556