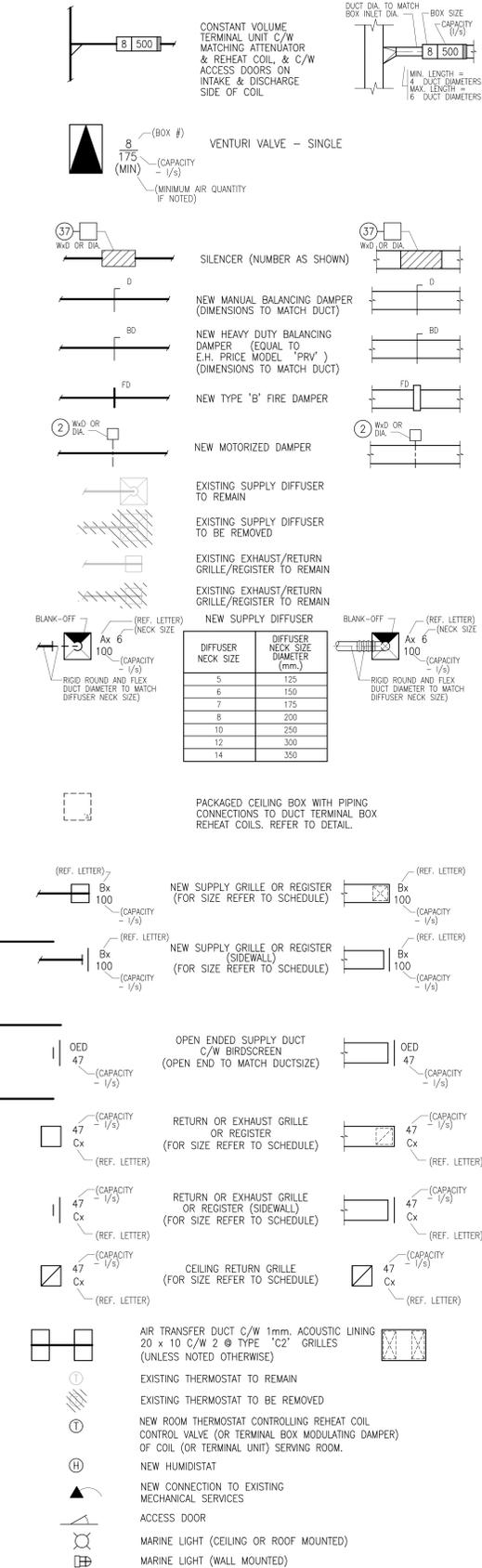
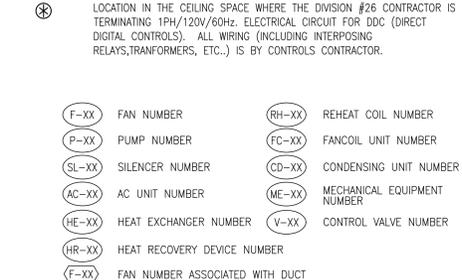
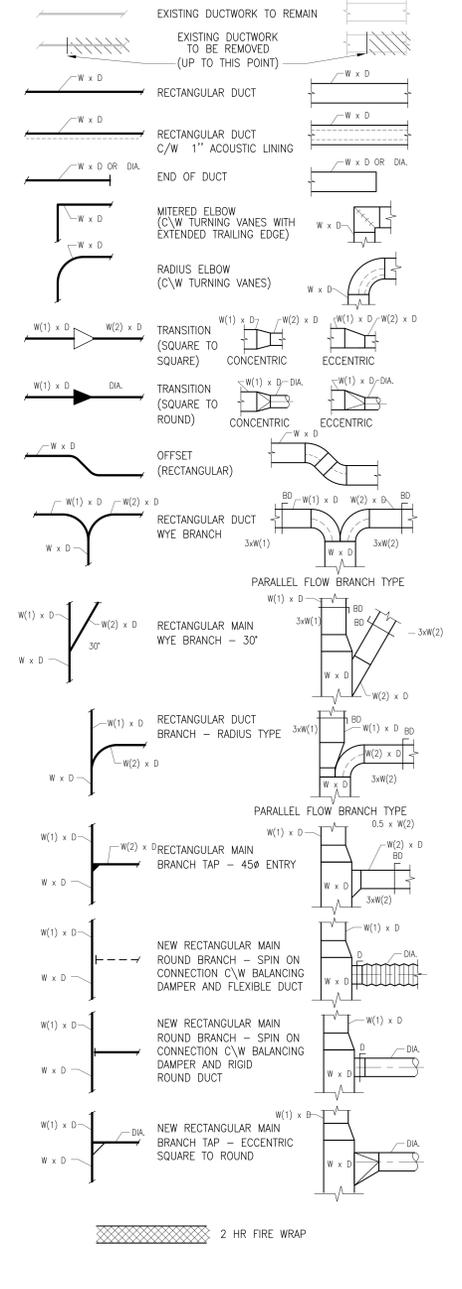
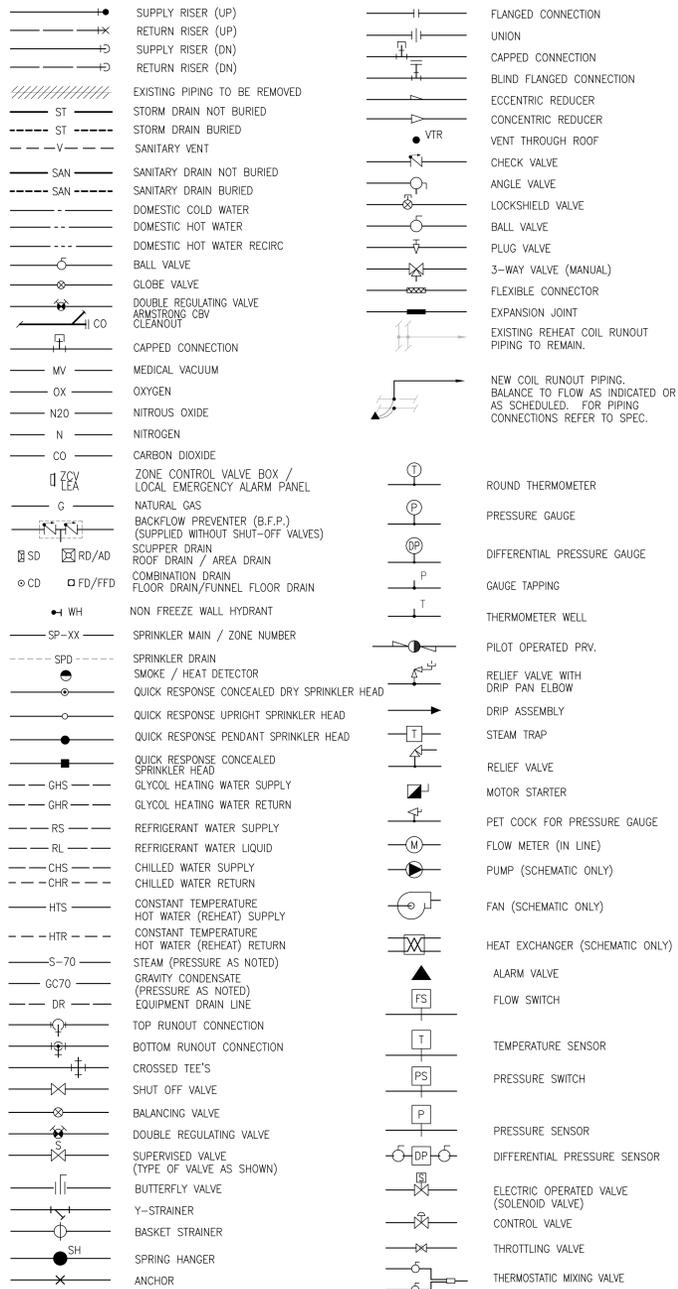


MECHANICAL LEGEND



GENERAL NOTES:

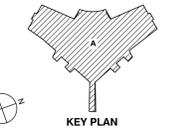
- MECHANICAL SERVICES SHOWN SCREENED (LIGHT LINEWEIGHT) ARE EXISTING TO REMAIN.
- BALANCING DAMPERS ARE REQUIRED AT ALL DUCTWORK BRANCH CONNECTIONS. BALANCING DAMPERS SHOWN INDICATE PREFERRED LOCATIONS ONLY. INDICATE LOCATION OF THESE DAMPERS AND ALL BRANCH DUCT BALANCING DAMPERS NOT SHOWN ON THIS DRAWING, ON 1:50 SCALE DUCTWORK INSTALLATION DRAWINGS. INSTALLATION DRAWINGS TO BE SUBMITTED AND APPROVED BY ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- MAXIMUM LENGTH OF FLEXIBLE DUCTWORK IS 5'-0". SPIRAL ROUND DUCT SHALL BE USED FOR PRECEDING SECTIONS WHERE MAXIMUM LENGTH IS EXCEEDED.
- NEW SERVICES TO BE INSTALLED TO PERMIT MAXIMUM CEILING HEIGHTS. PROVIDE ALL OFFSETS TO LIFT SERVICES TO MAXIMUM HEIGHT.
- MECHANICAL SERVICES CROSSING A FIRE SEPARATION MUST BE FIRE STOPPED. REFER TO SECTION 20 05 01 IN THE MECHANICAL TECHNICAL SPECIFICATIONS.
- DIVISION 21 00 00 (FIRE PROTECTION AND SPRINKLERS) MUST BE CARRIED AND COORDINATED BY MECHANICAL CONTRACTOR.
- ALL DUCT AND PIPE PENETRATIONS THROUGH MECHANICAL ROOM FLOORS OR WET AREAS, TO BE CURBED AND SLEEVED. SLEEVES TO EXTEND 75mm ABOVE FINISHED FLOOR. CONCRETE CURBS TO BE 100mm WITH CHAMFERED EDGES.
- ALL MECHANICAL SERVICES ARE TO BE COORDINATED WITH VENDOR EQUIPMENT AND UNISTRUT FRAMING. NO UNISTRUT FRAMING IS TO PROCEED UNTIL INTERFERENCE/COORDINATION/INSTALLATION DRAWINGS HAVE BEEN SUBMITTED TO CONSULTANT.
- EXISTING MECHANICAL SERVICES SHOWN ON PLANS ARE BASED ON INFORMATION OBTAINED FROM ORIGINAL CONSTRUCTION CONTRACT/TENDER DOCUMENTS AVAILABLE. THESE DRAWINGS ARE NOT BASED ON EXHAUSTIVE FIELD MEASUREMENT AND ARE PROVIDED TO ASSIST THE CONTRACTOR IN DETERMINING THE EXTENT OF WORK REQUIRED. DURING THE TENDER PERIOD, THE CONTRACTOR MUST PERFORM A SITE INSPECTION OF THE PLACE OF WORK AND SURROUNDINGS INCLUDING CEILING SPACE, AS WELL AS, OTHER AREAS WHERE ACCESS WOULD BE CONSIDERED REASONABLE, AND MAKE A THOROUGH INVESTIGATION OF AS-BUILT CONDITIONS TO DETERMINE THE SCOPE OF DEMOLITION/RENOVATION WORK REQUIRED PRIOR TO SUBMITTING THEIR TENDER PRICE.
- ALL NEW SERVICES SHOWN ARE DIAGRAMMATIC ONLY. PRIOR TO INSTALLATION OF NEW SERVICES, CONFIRM LOCATION OF EXISTING SERVICES WITH LAYOUT AND ADJUST INSTALLATION TO SUIT. CONTRACTOR IS RESPONSIBLE FOR FULL COORDINATION OF ALL EXISTING AND NEW SERVICES. ANY ADDITIONAL OFFSETS DUE TO INTERFERENCES ARE TO BE PROVIDED AT NOT ADDITIONAL COST TO THE OWNER. TAKE INFORMATION INVOLVING ACCURATE MEASUREMENTS FROM DIMENSIONED ARCHITECTURAL DRAWINGS OR FROM SITE MEASUREMENTS.
- EXISTING ITEMS TO BE REMOVED REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DELIVERED TO A LOCATION ON SITE DESIGNATED BY THE OWNER. IF THE OWNER DECLARES NO INTEREST IN THE REMOVED ITEMS, ASSUME OWNERSHIP AND REMOVE THE ITEMS FROM THE SITE.
- REPAIR FLOORS, WALLS, AND ROOFS DAMAGED BY REMOVING OR REMOVED MECHANICAL SERVICES TO MATCH EXISTING ADJACENT SURFACE AND FINISH. PROVIDE FIRE STOPPING AND SMOKE SEAL AS REQUIRED.

PLUMBING LEGEND

SYMBOL	DESCRIPTION	NOTES / REFERENCE
PLUMBING / MED. GAS / FIRE STAND PIPE RISER DESCRIPTION		
○ 100 SAN ○ 75 V ○ 100 ST N/8	PIPING SIZE [IN] / DESCRIPTION IN LEFT TO RIGHT OR TOP TO BOTTOM ORDER	BUILDING GRIDLINES
PLUMBING FIXTURES		
WC1, U1, MS1, SH1, EW1	TOILET No. 1, URINAL No. 1, MOP SINK No. 1, SHOWER No. 1, EYEWASH	SINK No. 1, CLINIC SERVICE SINK No. 1, LAVATORY No. 1
PLUMBING FIXTURES CONNECTED ON FLOOR ABOVE		
FD, WC, CD	FLOOR DRAIN / URINAL, WATER CLOSET / LAVATORY, COMBINATION DRAIN / HUB DRAIN	

MECHANICAL DRAWING LIST

DRAWING NO.	DRAWING TITLE	DISCIPLINE
M0	MECHANICAL LEGEND & DRAWING LIST	MECHANICAL
M1	MECHANICAL SCHEDULES & CONTROLS	MECHANICAL
M2	MECHANICAL DETAILS	MECHANICAL
M3	LEVEL 02 FLOOR PLAN PLUMBING NEW WORK	PLUMBING
M4	LEVEL 03 FLOOR PLAN PLUMBING DEMOLITION	PLUMBING
M5	LEVEL 03 FLOOR PLAN PLUMBING NEW WORK	PLUMBING
M6	LEVEL 03 FLOOR PLAN HVAC PIPING DEMOLITION	HVAC
M7	LEVEL 03 FLOOR PLAN HVAC PIPING NEW WORK	HVAC
M8	LEVEL 03 FLOOR PLAN HVAC DUCTWORK DEMOLITION	VENTILATION
M9	LEVEL 03 FLOOR PLAN HVAC DUCTWORK NEW WORK	VENTILATION



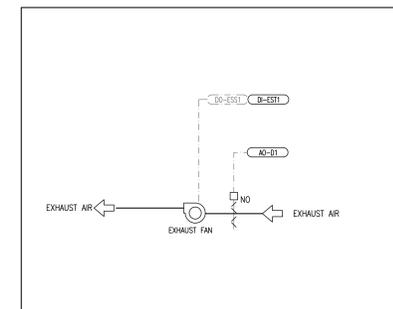
MECHANICAL LEGEND & DRAWING LIST

FAN SCHEDULE																									
NO.	DESIGNATION	LOCATION	BASIS OF DESIGN	PERFORMANCE DATA			CONSTRUCTION DATA				STARTER										REMARKS				
				CAPACITY L/s (CFM)	ESTIMATED E.S.P. Pa (in. WG)	RPM	TYPE	MOTOR	VIBRATION	LOCATION	POWER SOURCE	HHA	ACCESSORIES IN COVER	REMOTE ACCESSORIES	INTERLOCKED MOTOR	FAS	CONTROLS	FEEDER							
EF-1	LEVEL 3 EXHAUST FAN NORTH	MEP RISER NORTH	10050N-B	472 (1000)	174 (0.70)	2270	BELT DRIVEN SQUARE CENTRIFUGAL INLINE FAN	0.373 (0.5)	19 (0.75)	S1	A	-	-	-	-	B	SEE SPEC.	PL	DISCONNECT	AT FAN	-	-	1/M1	2#2 - 12mm C	
EF-2	LEVEL 3 EXHAUST FAN SOUTH	MEP RISER SOUTH	12050N-B	632 (1340)	174 (0.70)	1314	BELT DRIVEN SQUARE CENTRIFUGAL INLINE FAN	0.373 (0.5)	19 (0.75)	S1	A	-	-	-	-	B	SEE SPEC.	PL	DISCONNECT	AT FAN	-	-	1/M1	2#2 - 12mm C	
EF-3	LEVEL 3 LAUNDRY ROOM BOOSTER FAN	LAUNDRY ROOM (RM 3003)	TLD-200-PS	70 (150)	75 (0.3)	2500	FULLY AUTOMATIC SINGLE INLET DRYER BOOSTER FAN	0.075 (0.3)	19 (0.75)	S1	A	-	-	-	-	K	SEE SPEC.	PL	DISCONNECT	AT FAN	-	-	1/M1	2#2 - 12mm C	REVERSOMATIC T12000 C/W T-10MIN TIME DELAY AMP SENSOR AND REVERSOMATIC LT-250-45 EXTERNAL SECONDARY LINT TRAP.

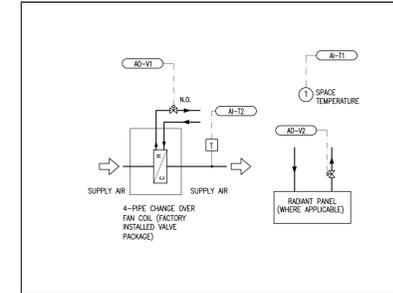
RADIANT CEILING PANELS									
UNIT NO.	DESIGNATION	LOC'N	BASIS OF DESIGN		WIDTH inch (mm)	MEAN WATER TEMP (F)	CAPACITY (BTUH/FT)	NUMBER OF TUBES	REMARKS
			MANUFACTURER	MODEL					
R-1	RADIANT CEILING PANEL	SEE DWG M7	SIGMA	SLC 36-12	36 (900)	160-165	600	12	RADIANT CEILING PANEL TO EXTEND FROM WALL-TO-WALL (REFER TO ARCHITECTURAL FLOOR PLANS) AND BE C/W TAMPERPROOF FASTENERS FOR ANTI-LIGATURE. REFER TO DRAWING M7 FOR LOCATIONS AND HEATING LOADS.

GRILLES & DIFFUSERS							
REF LETTER	APPLICATION	SELECTION MFG.	MANUFACTURERS DATA		OPPOSED BLADE DAMPER	FINISH	REMARKS
			MODEL DESCRIPTION AND SIZE (in. x in.)	E.H. PRICE			
A	600x600 CEILING SUPPLY DIFFUSER	E.H. PRICE	ASPD, 600x600 ALUMINUM CONSTRUCTION, NECK SIZE 200 (8") UNLESS NOTED OTHERWISE.		YES	HOSPITAL WHITE	FRAME & BORDER TO SUIT APPLICATION
B	600x600 CEILING MAXIMUM SECURITY (ANTI-LIGATURE) SUPPLY GRILLE	E.H. PRICE	MSRRG, 600x600		YES	B11 STERILE WHITE	FRAME & BORDER TO SUIT APPLICATION
C	300x300 CEILING MAXIMUM SECURITY (ANTI-LIGATURE) RETURN GRILLE	E.H. PRICE	MSRRP, 300x300		YES	B11 STERILE WHITE	FRAME & BORDER TO SUIT APPLICATION
D	600x600 CEILING RETURN/EXHAUST GRILLE	E.H. PRICE	SERIES 80, EGGRATE - 600x600, ALUMINUM CONSTRUCTION		YES	HOSPITAL WHITE	FRAME & BORDER TO SUIT APPLICATION
D1	300x300 CEILING RETURN/EXHAUST GRILLE	E.H. PRICE	SERIES 80, EGGRATE - 300x300, ALUMINUM CONSTRUCTION		YES	HOSPITAL WHITE	FRAME & BORDER TO SUIT APPLICATION
E	200x200 CEILING WASHROOM EXHAUST GRILLE	E.H. PRICE	SERIES 635-LOUVRED FACE - 200x200, ALUMINUM CONSTRUCTION		YES	HOSPITAL WHITE	FRAME & BORDER TO SUIT APPLICATION

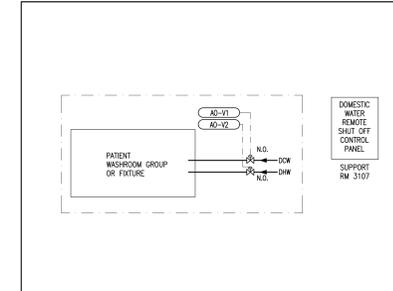
FAN COIL UNITS																			
No.	DESIGNATION	QTY	MANUFACTURER	MODEL NO.	AIR FLOW CFM	E.S.P. INCH WG	COOLING CAPACITY BTU/HR		E.W.T. COOLING	HEATING CAPACITY BTU/HR	E.W.T. HEATING	USGPM		RUNOUT PIPE SIZE		MOTOR H.P.	POWER SOURCE		REMARKS
							SENSIBLE	TOTAL				COOLING	HEATING	SUPPLY INCH	RETURN INCH		1 Ø	208V	
FCU-1	ACTMTRY ROOM CONSULT ROOMS	2	DAIKIN	FCHH204	300	0.25	7346	9144	50F	23272	150F	1.9	2.3	5/8	5/8	1/8	.	.	CONCEALED HORIZONTAL DUCTED CHANGEOVER FAN COIL C/W FACTORY INSTALLED VALVE AND PIPE PACKAGE (4-PIPE COOLING AND HEATING SAME SIDE), INSULATED PLENUM, FLEX CONNECTION, EXTENDED DRAIN PAN, MERV-8 FILTER RACK, MODULATING 2-WAY CONTROL VALVE AND AUTOMATIC CIRCUIT SETTERS, LOW VOLTAGE CONTROLS INTERFACE BOARD, REMOTE TEMPERATURE SENSOR, ECM MOTOR MROFD (15A).
FCU-2	DINING ROOM	1	DAIKIN	FCHH206	450	0.25	10302	11783	50F	34483	150F	2.4	3.5	5/8	5/8	1/4	.	.	



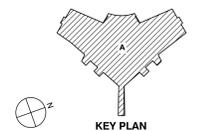
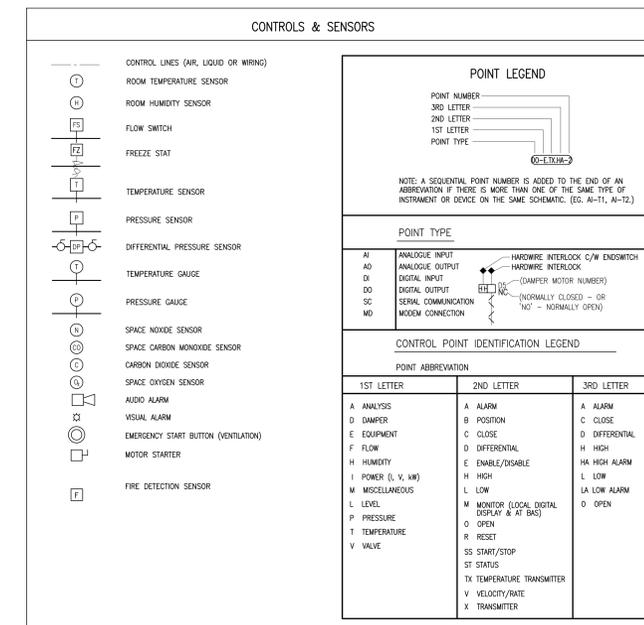
1
M1
N.T.S.



2
M1
N.T.S.

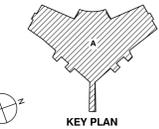


3
M1
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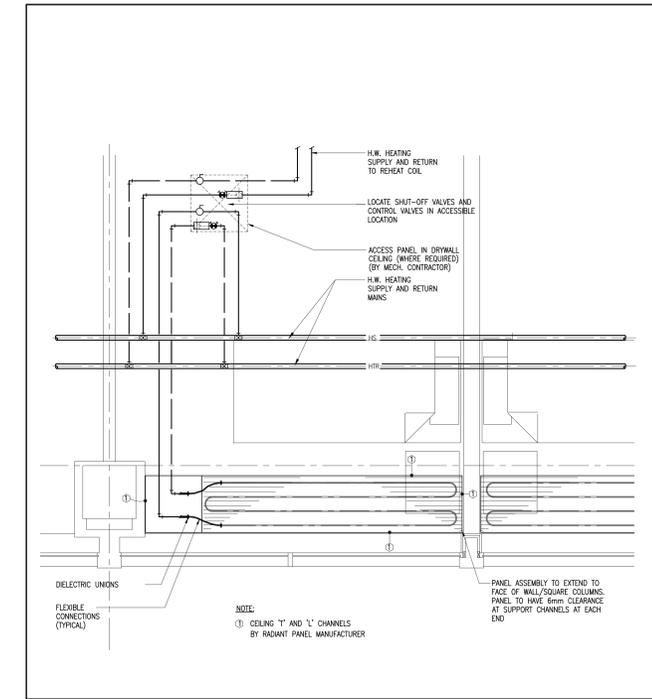




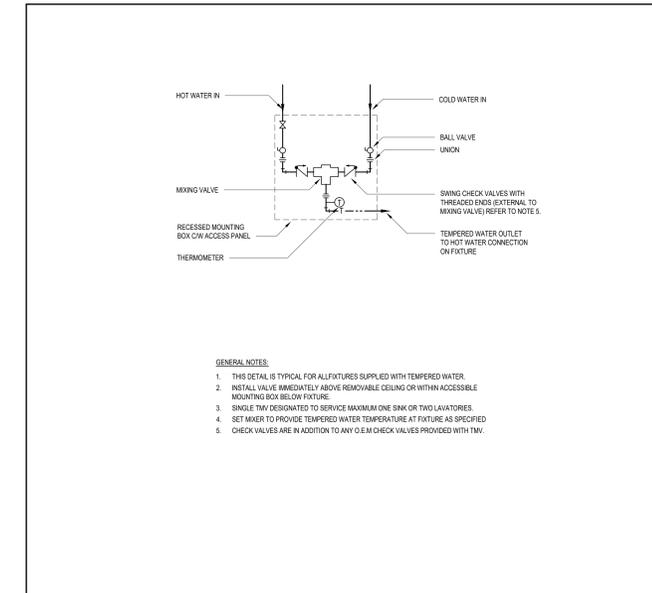
Rev.	Description	Date
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01	Issued for 95% CD-DA/DC	2022-11-01



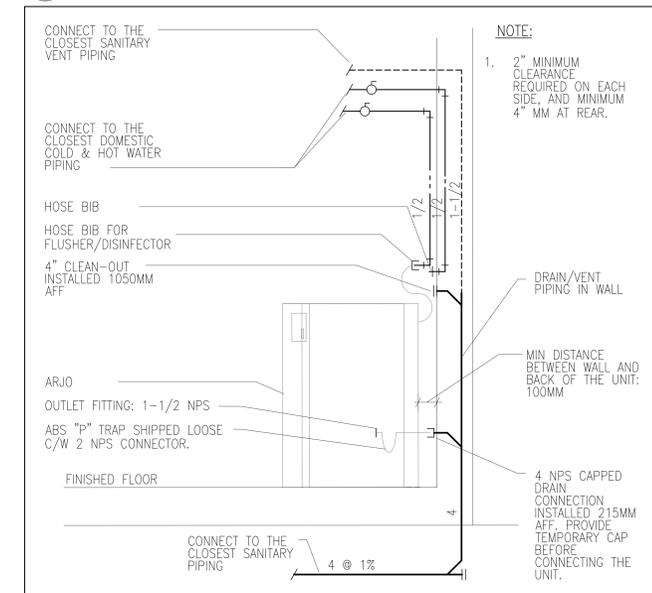
MECHANICAL
DETAILS



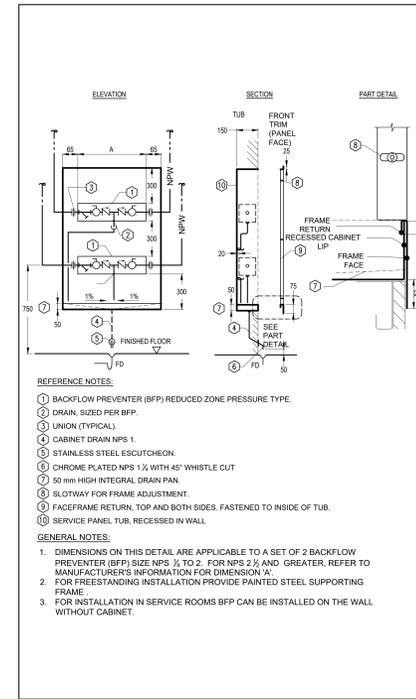
1 TYPICAL INSTALLATION DETAIL FOR RADIANT PANELS
M2 N.T.S.



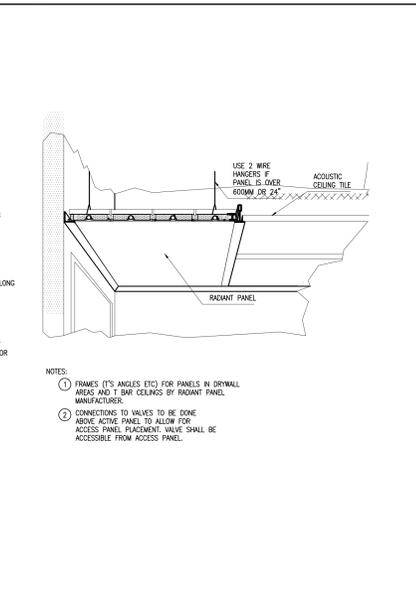
6 THERMOSTATIC MIXING VALVE ASSEMBLY
M2 N.T.S.



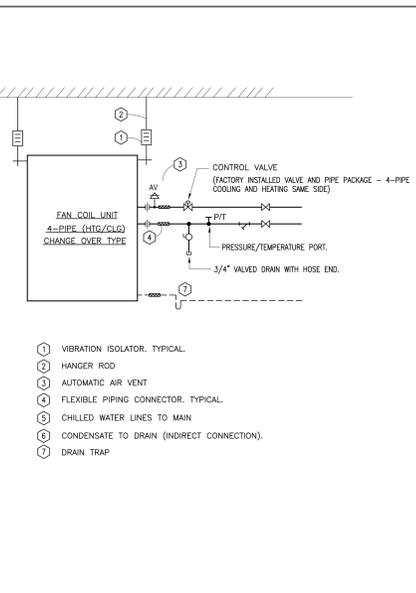
9 BED PAN WASHER CONNECTIONS
M2 N.T.S.



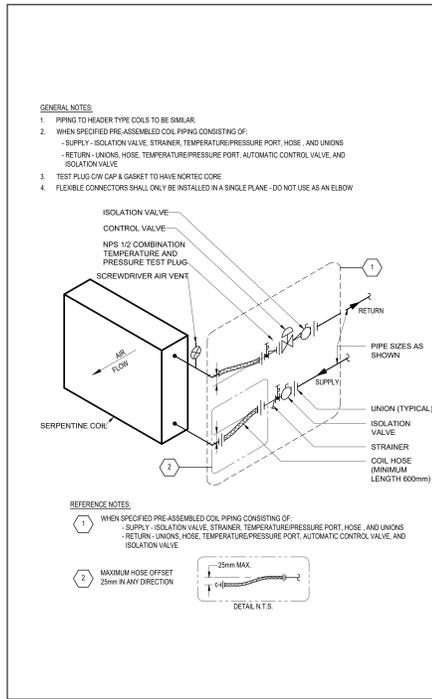
2 BACKFLOW PREVENTER ASSEMBLY IN CABINET
M2 N.T.S.



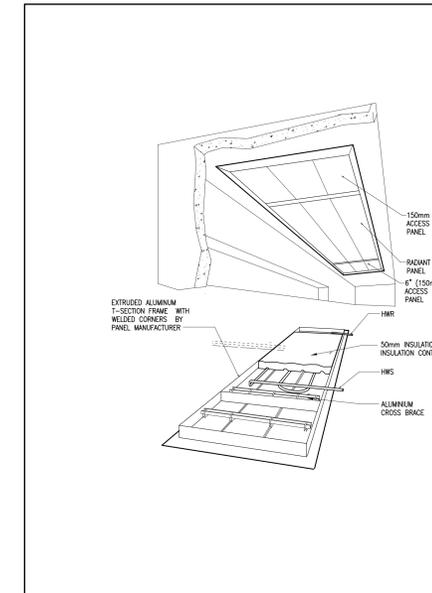
7 RADIANT CEILING PANELS IN DRYWALL AND T-BAR CEILING (TYPICAL)
M2 N.T.S.



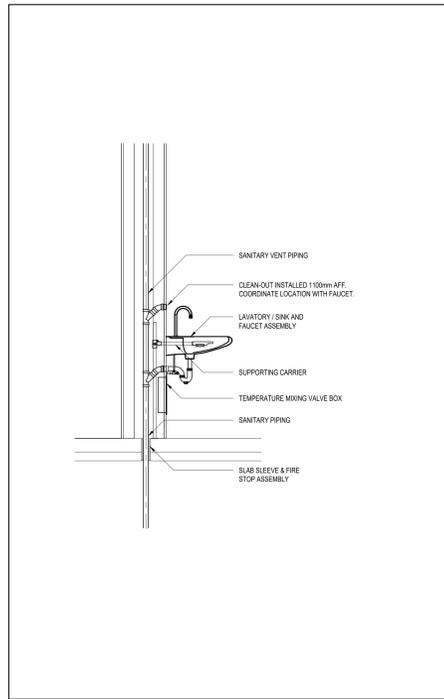
10 PIPING CONNECTIONS TO FAN COIL UNIT
M2 N.T.S.



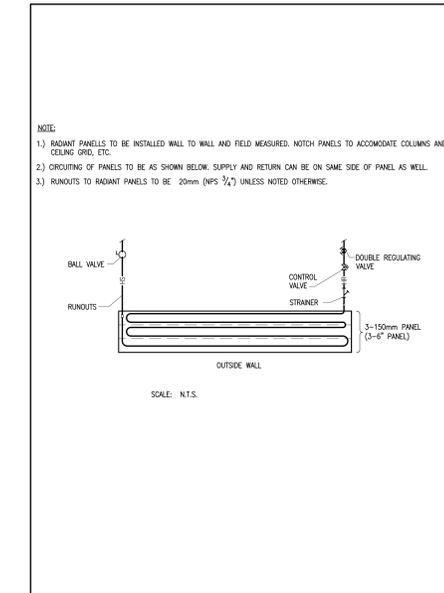
3 DUCT MOUNTED COIL
M2 N.T.S.



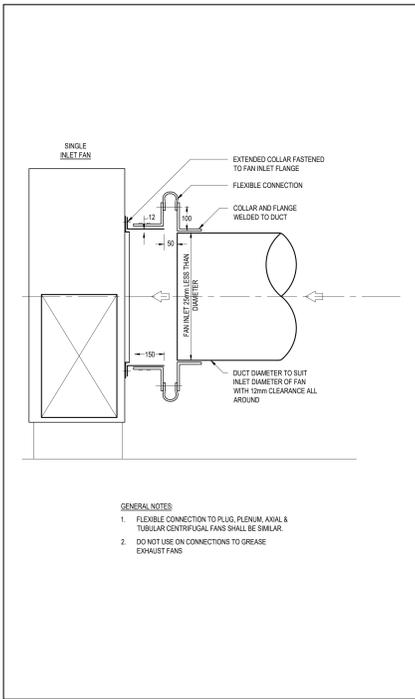
11 CONDENSATE DRAIN TYPICAL DRAINAGE AIR BREAK
M2 N.T.S.



4 LAVATORY - SINK INSTALLATION DETAIL
M2 N.T.S.



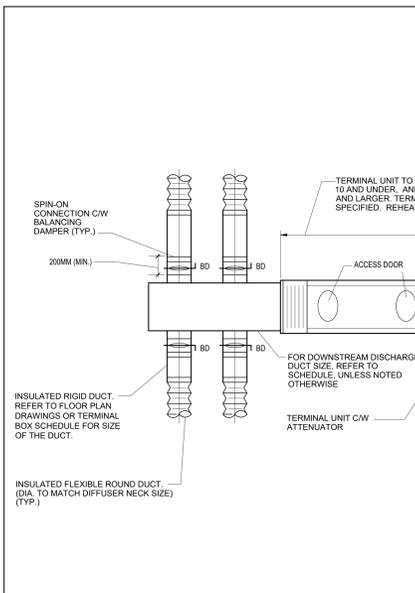
8 TYPE 'B' RADIANT PANEL CIRCUITING (TYPICAL)
M2 N.T.S.



5 FLEXIBLE CONNECTION TO SUCTION SIDE OF FAN
M2 N.T.S.



12 TERMINAL UNIT (BOX) AND DUCT CONNECTION
M2 N.T.S.



13 CONDENSATE DRAIN TYPICAL DRAINAGE AIR BREAK
M2 N.T.S.

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LEVEL 03
RENOVATIONS -
STAGE 4

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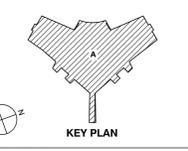
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ISSUED FOR CONSTRUCTION
27 JUN 2024

Ministry of Health Project Number# 265004



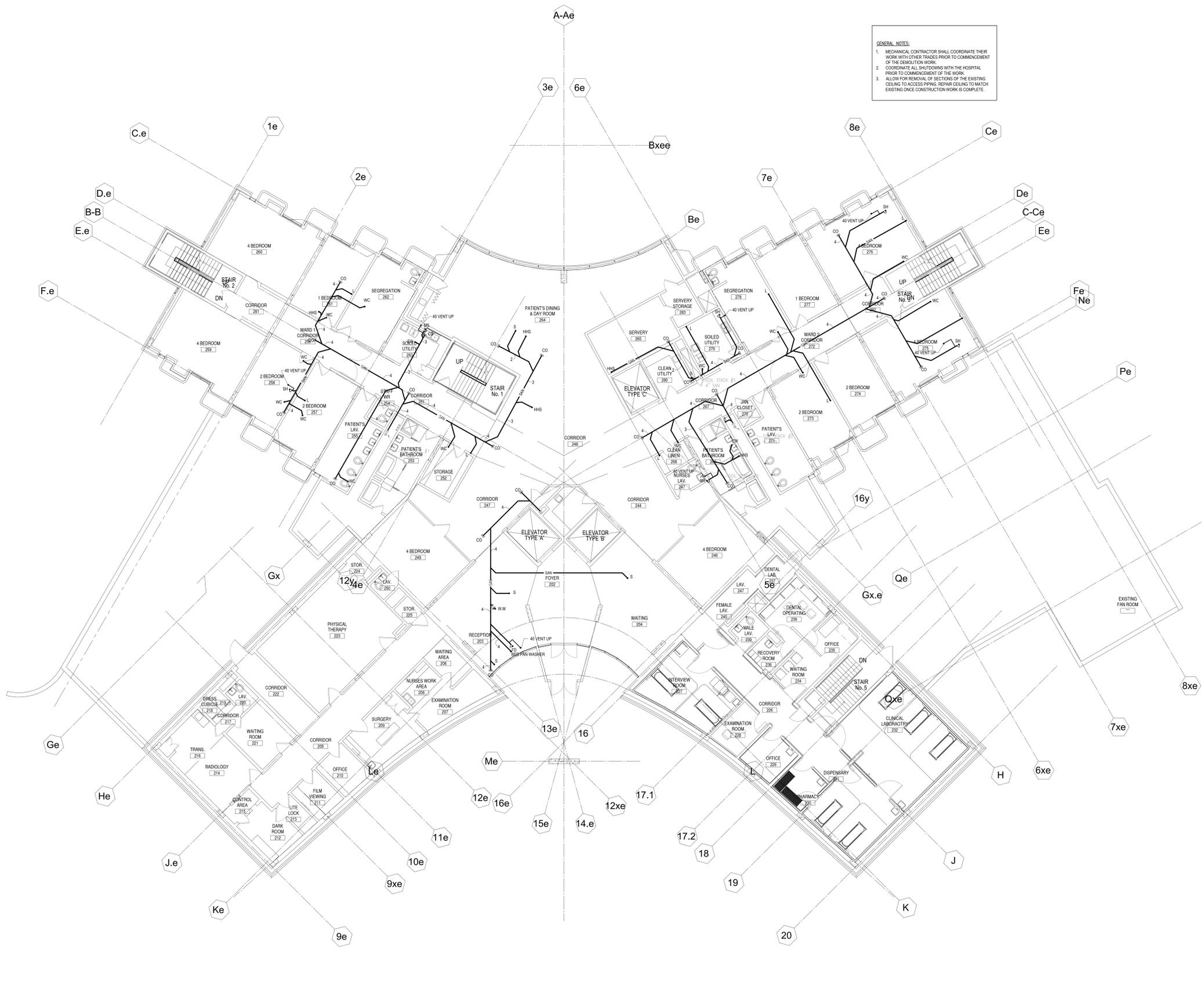
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01	Issued for 95% CD-DA/QC	2022-11-01



LEVEL 02 FLOOR PLAN
PLUMBING NEW WORK

Project No.: 020708.50 Checked by: ES

M3



GENERAL NOTES:

- MECHANICAL CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER TRADES PRIOR TO COMMENCEMENT OF THE RENOVATION WORK.
- COORDINATE ALL SHUTDOWNS WITH THE HOSPITAL PRIOR TO COMMENCEMENT OF THE WORK.
- ALLOW FOR REMOVAL OF SECTIONS OF THE EXISTING CEILING TO ACCESS PIPING. REPAIR CEILING TO MATCH EXISTING ONCE CONSTRUCTION WORK IS COMPLETE.

1 LEVEL 02 FLOOR PLAN PLUMBING NEW WORK
M3 1/96

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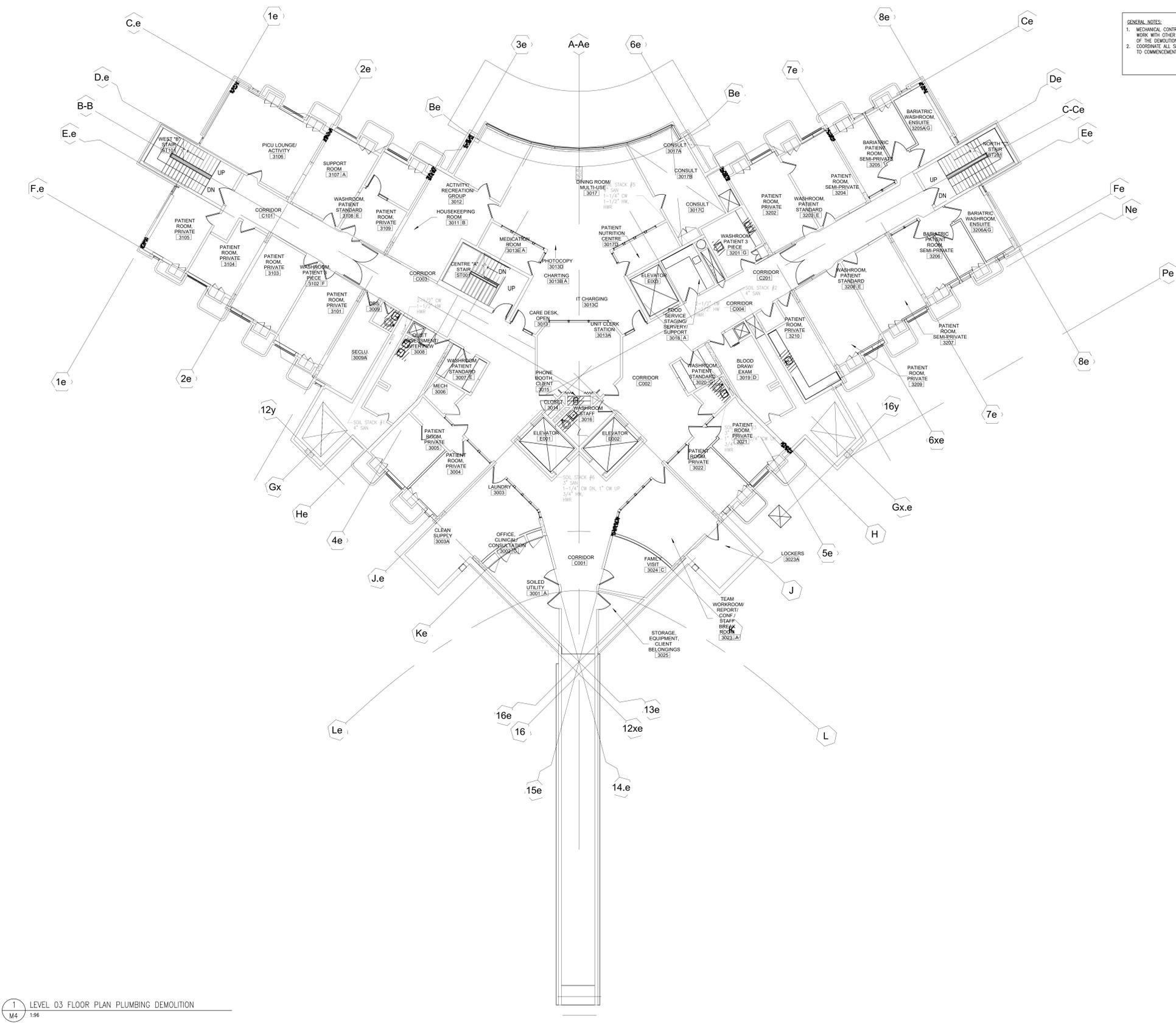
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GENERAL NOTES:
1. MECHANICAL CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER TRADES PRIOR TO COMMENCEMENT OF THE DEMOLITION WORK.
2. COORDINATE ALL SHUTDOWNS WITH THE HOSPITAL PRIOR TO COMMENCEMENT OF THE WORK.



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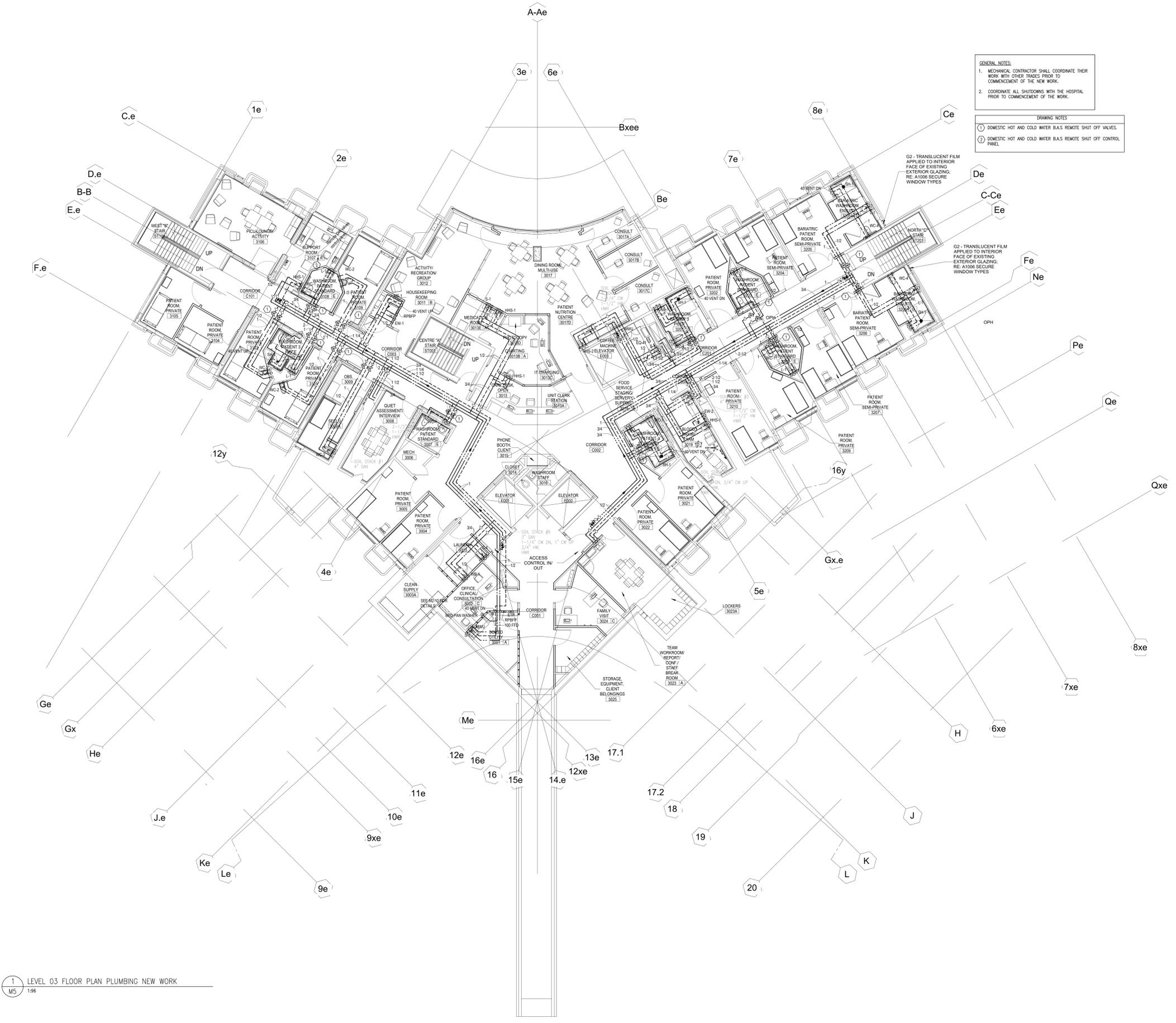


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- GENERAL NOTES**
- MECHANICAL CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER TRADES PRIOR TO COMMENCEMENT OF THE NEW WORK.
 - COORDINATE ALL SHUTDOWNS WITH THE HOSPITAL PRIOR TO COMMENCEMENT OF THE WORK.
- DRAWING NOTES**
- DOMESTIC HOT AND COLD WATER B.A.S REMOTE SHUT OFF VALVES.
 - DOMESTIC HOT AND COLD WATER B.A.S REMOTE SHUT OFF CONTROL PANEL.



1 LEVEL 03 FLOOR PLAN PLUMBING NEW WORK
M5 1/96

ISSUED FOR CONSTRUCTION
27 JUN 2024
Ministry of Health Project Number# 265004



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LEVEL 03 FLOOR
PLAN PLUMBING
NEW WORK

Project No.: 020708.50 Checked by: ES

M5

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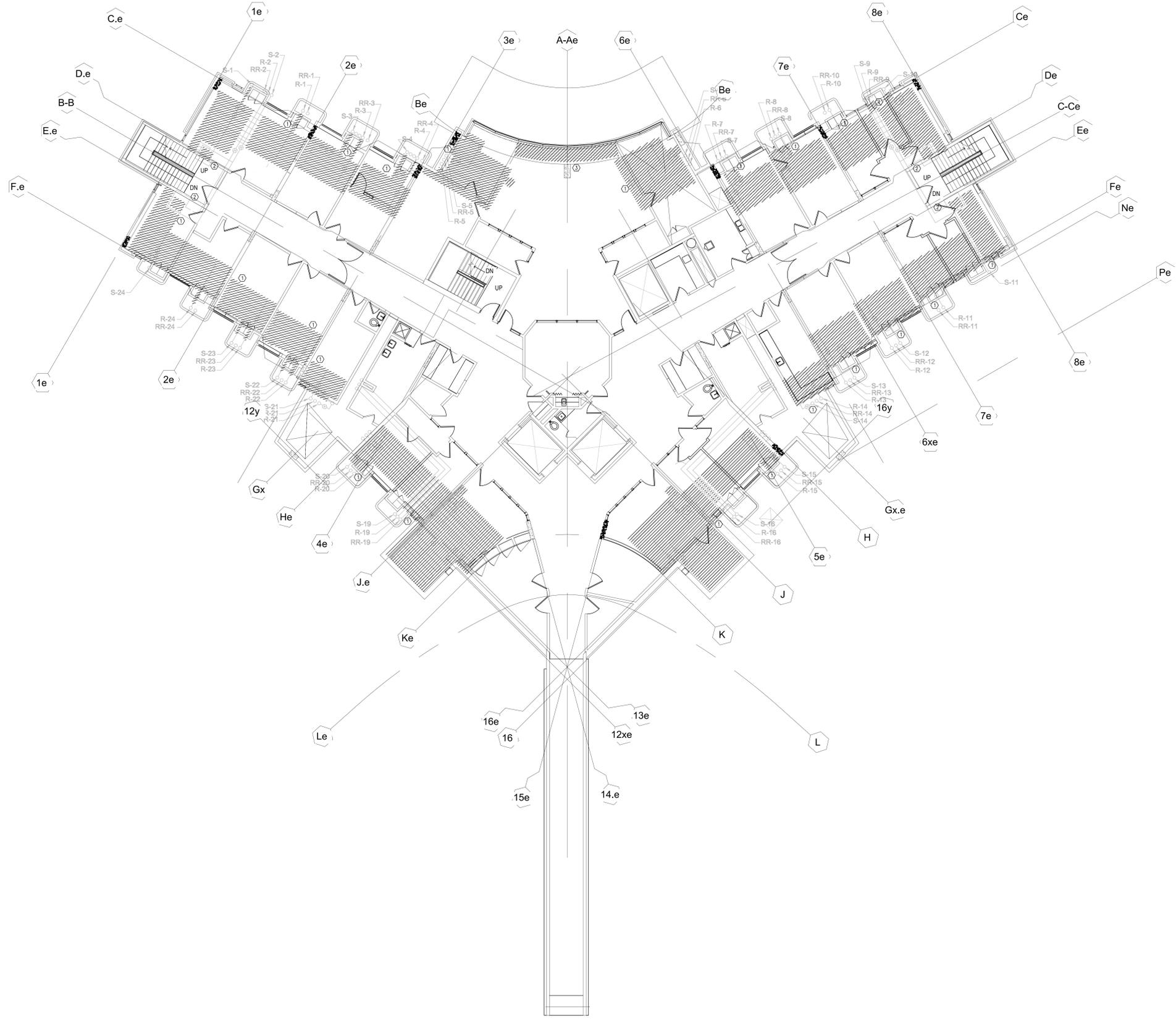
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DRAWING NOTES

- ① CUT ALL BARE PIPING AND ALL ASSOCIATED ACCESSORIES & CONTROLS BACK TO RISERS TO BE READY FOR RECONNECTION DURING RENOVATION TO EXTENT INDICATED.
- ② EXISTING STAR HEATERS TO REMAIN.
- ③ REMOVE EXISTING RADIANT PANEL, ASSOCIATED PIPING AND CONTROLS.



1 LEVEL 03 FLOOR PLAN HVAC PIPING DEMOLITION
M6 1/96

ISSUED FOR CONSTRUCTION
27 JUN 2024
Ministry of Health Project Number# 265004



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LEVEL 03 FLOOR PLAN
HVAC PIPING
DEMOLITION
Project No.: 020708.60 Checked by: ES

M6

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LEVEL 03
RENOVATIONS -
STAGE 4

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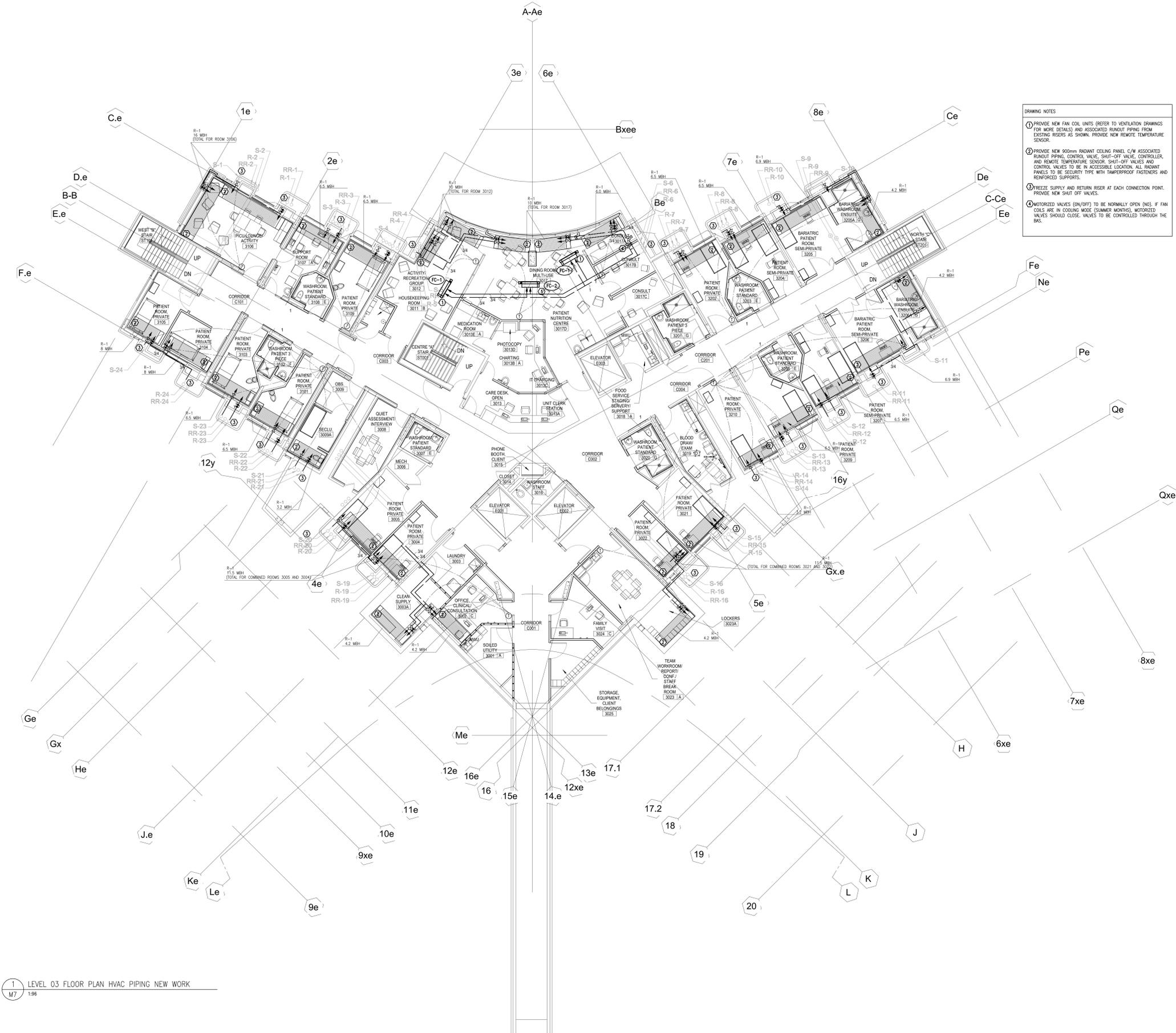
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- DRAWING NOTES**
- 1 PROVIDE NEW FAN COIL UNITS (REFER TO VENTILATION DRAWINGS FOR MORE DETAILS) AND ASSOCIATED RUNDOUT PIPING FROM EXISTING RISERS AS SHOWN. PROVIDE NEW REMOTE TEMPERATURE SENSOR.
 - 2 PROVIDE NEW 900mm RADIANT CEILING PANEL, C/W ASSOCIATED RUNDOUT PIPING, CONTROL VALVE, SHUT-OFF VALVE, CONTROLLER, AND REMOTE TEMPERATURE SENSOR. SHUT-OFF VALVES AND CONTROL VALVES TO BE IN ACCESSIBLE LOCATION. ALL RADIANT PANELS TO BE SECURITY TYPE WITH TAMPERPROOF FASTENERS AND REINFORCED SUPPORTS.
 - 3 FREEZE SUPPLY AND RETURN RISER AT EACH CONNECTION POINT. PROVIDE NEW SHUT OFF VALVES.
 - 4 AUTHORIZED VALVES (ON/OFF) TO BE NORMALLY OPEN (NO). IF FAN COILS ARE IN COOLING MODE (SUMMER MONTHS), MOTORIZED VALVES SHOULD CLOSE. VALVES TO BE CONTROLLED THROUGH THE BAS.

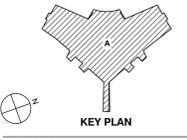


1 LEVEL 03 FLOOR PLAN HVAC PIPING NEW WORK
M7 1/8"

ISSUED FOR CONSTRUCTION
27 JUN 2024
Ministry of Health Project Number# 265004



05	Issued for Construction	2024-06-27
04	Issued for Tender	2023-12-18
03	Issued for Construction	2023-11-17
02	Issued for Stage 4 Submission	2022-11-23
01	Issued for 95% CD- OADR	2022-11-01
Rev.	Description	Date



Level Title:
**LEVEL 03 FLOOR PLAN
HVAC PIPING
NEW WORK**

Project No.: 020708.60 Checked by: ES

M7

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TOANCHE
LEVEL 03
RENOVATIONS -
STAGE 4

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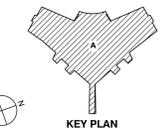
ISSUED FOR CONSTRUCTION

27 JUN 2024

Ministry of Health Project Number# 265004



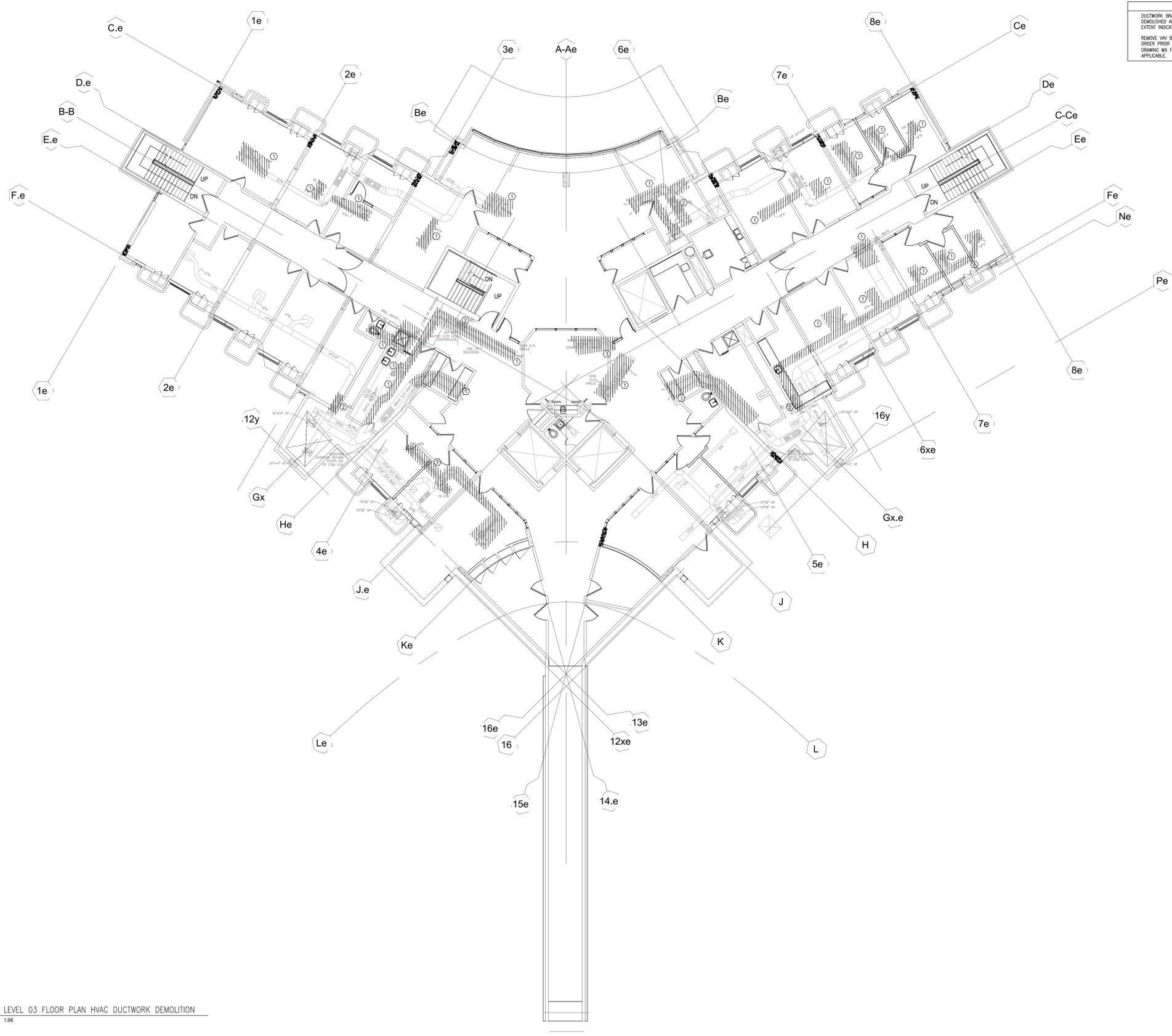
Rev.	Description	Date
05	Issued for Construction	2024-06-27
04	Issued for Tender	2023-12-18
03	Issued for Construction	2023-11-17
02	Issued for Stage 4 Submission	2023-11-30
01	Issued for 95% CD- OADR	2022-11-01



Drawing Title:
**LEVEL 03 FLOOR PLAN
HVAC DUCTWORK
DEMOLITION**

Project No.: 020708.50 Checked by: ES

M8



DRAWING NOTES
DUCTWORK BRANCH/DIFFUSER/ACCESSORIES TO BE DEMOLISHED AND CUT AND CAPPED BACK TO MAIN TO EXTENT INDICATED.
REMOVE VAV BOX AND ENSURE IT IS IN GOOD WORKING ORDER PRIOR TO RELOCATION DURING RENOVATION. SEE DRAWING M9 FOR RELOCATED (RL) VAV BOX IF APPLICABLE.

1 LEVEL 03 FLOOR PLAN HVAC DUCTWORK DEMOLITION
M8 1/96

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LEVEL 03
RENOVATIONS -
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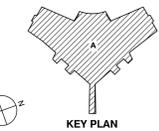
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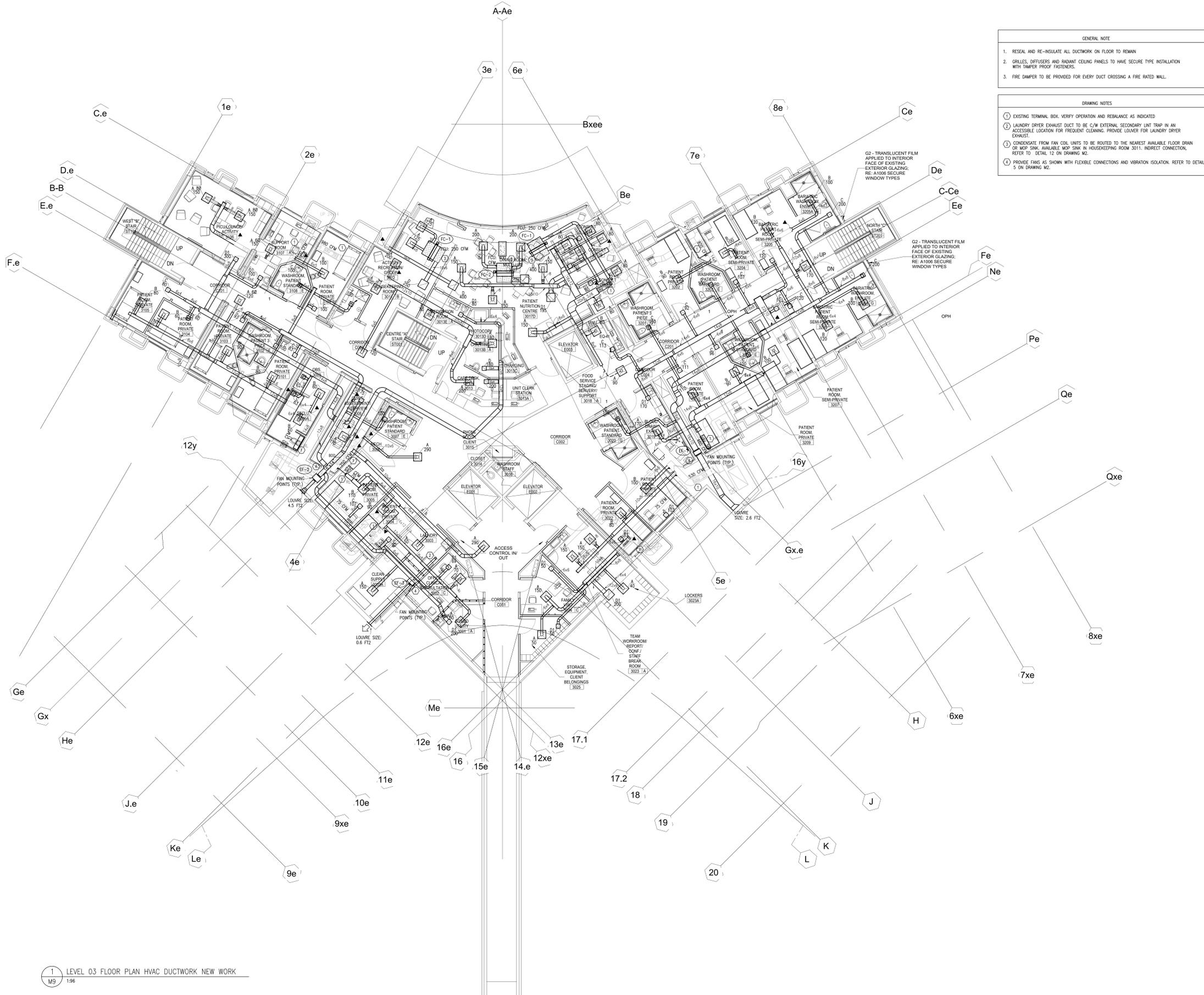
Rev.	Description	Date
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01	Issued for 95% CD- OADR	2022-11-01



LEVEL 03 FLOOR PLAN
HVAC DUCTWORK NEW WORK

Project No.: 020708.50 Checked by: ES

M9



- GENERAL NOTE
- RESEAL AND RE-INSULATE ALL DUCTWORK ON FLOOR TO REMAIN
 - GRILLES, DIFFUSERS AND RADIANT CEILING PANELS TO HAVE SECURE TYPE INSTALLATION WITH TAMPER PROOF FASTENERS.
 - FIRE DAMPER TO BE PROVIDED FOR EVERY DUCT CROSSING A FIRE RATED WALL.

- DRAWING NOTES
- EXISTING TERMINAL BOX. VERIFY OPERATION AND REBALANCE AS INDICATED
 - LAUNDRY DRYER EXHAUST DUCT TO BE C/W EXTERNAL SECONDARY UNIT TRAP IN AN ACCESSIBLE LOCATION FOR FREQUENT CLEANING. PROVIDE LOUVER FOR LAUNDRY DRYER EXHAUST
 - CONDENSATE FROM FAN COIL UNITS TO BE ROUTED TO THE NEAREST AVAILABLE FLOOR DRAIN OR MOP SINK. AVAILABLE MOP SINK IN HOUSEKEEPING ROOM 3011. INDIRECT CONNECTION, REFER TO DETAIL 12 ON DRAWING M2
 - PROVIDE FANS AS SHOWN WITH FLEXIBLE CONNECTIONS AND VIBRATION ISOLATION. REFER TO DETAIL 5 ON DRAWING M2.

1 LEVEL 03 FLOOR PLAN HVAC DUCTWORK NEW WORK
MS 1/96

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