












PIPING IDENTIFICATION	
<p>             "XXXX" = PIPE TYPE AS DESCRIBED BY ABBREVIATION BELOW              IF SHOWN, "N" = NPS SIZE OF THE PIPE              IF SHOWN AND PRECEDED BY "#", "N" = DN SIZE OF THE PIPE         </p>	
LINETYPE	PIPE TYPE
— — — —	DOMESTIC COLD WATER
—— — —	DOMESTIC HOT WATER
— · — · —	DOMESTIC HOT WATER RECIRCULATION
————	DRAIN LINE (NON-BURIED) (SEE TEXT ABBREVIATION)
—— — —	DRAIN LINE (BURIED OR ON FLOOR BELOW) (SEE TEXT ABBREVIATION)
- - - - -	PLUMBING VENT
- . - . -	SUPPLY (SEE TEXT ABBREVIATION)
- · - · -	VENTURY LINE (SEE TEXT ABBREVIATION)
— — — —	RETURN LINE (SEE TEXT ABBREVIATION)
ABBREVIATION	PIPE TYPE
<b><u>PLUMBING AND DRAINAGE</u></b>	
SAN	SANITARY
STM	STORM
<b><u>FIRE PROTECTION</u></b>	
F	FIRE PROTECTION SUPPLY
FSP	FIRE STANDPIPE
SP	FIRE SPRINKLER
PA	PRE-ACTION SPRINKLER
<b><u>HEATING/COOLING</u></b>	
DR	HVAC DRAIN OR OVERFLOW
HS	HEATING WATER SUPPLY
HR	HEATING WATER RETURN
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
<b><u>MEDICAL PLUMBING, DRAINAGE, AND GASES</u></b>	
MV	MEDICAL VACUUM
OX	OXYGEN

NOMINAL PIPE SIZE (NPS)	DIAMETRE NOMINAL (DN)
1/2	15
5/8	--
3/4	20
1	25
1 1/4	32
1 1/2	40
2	50
2 1/2	65
3	80
4	100
6	150
8	200
10	250
12	300
14	350
16	400
18	450
20	500
24	600









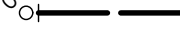


- THE PIPE SIZES SHOWN ARE NOMINAL SIZES.  
 - MATERIAL OF THE TUBING TO BE AS SHOWN AND AS SPECIFIED.  
 - REFER TO SPECIFICATIONS FOR ASSOCIATED PIPING/TUBING STANDARDS THAT DEFINE THE DIMENSIONS.

MISCELLANEOUS LEGEND	
	EXISTING MECHANICAL EQUIPMENT OR SERVICE TO REMAIN
	EXISTING MECHANICAL EQUIPMENT OR SERVICE TO BE REMOVED
	EXISTING MECHANICAL EQUIPMENT OR SERVICE TO BE RELOCATED
	NEW LOCATION OF RELOCATED MECHANICAL EQUIPMENT OR SERVICE
	PROTECTED SPACE RESERVED FOR SERVICING AND ACCESS WITH CLEAR HEIGHT OF Xxm
DEMARCATORY POINT	
	ITEMS TO THE LEFT OF THE POINT ARE BY DIV. 'XX'
	ITEMS TO THE RIGHT OF THE POINT ARE BY DIV. 'YY'
	APPROXIMATE LOCATION (±3m (10ft)) OF A SOURCE OF 120V/PHASED, 15A. POWER PROVIDED BY ELECTRICAL DIVISION, MECHANICAL DIVISION TO PROVIDE WIRING FROM THIS POINT TO CONTROLS, FIXTURES, AND EQUIPMENT THAT IS NOT DIRECTLY WIRED BY ELECTRICAL DIVISION.
	ACCESS PANEL/DOOR FOR SPECIFIC PURPOSE PROVIDED IN ADDITION TO THOSE DESCRIBED IN SPECIFICATIONS.
	WALL TYPE SHOWN ON LEFT
	CEILING TYPE SHOWN ON RIGHT










EQUIPMENT LABELS	
<div> <div>XXX-##</div> <div>— ITEM NUMBER</div> </div> <div> <div>—</div> <div>CATEGORY LABEL</div> </div>	
LABEL	DESCRIPTION
AC	SPLIT SYSTEM AIR CONDITIONER OR AIR SOURCE HEAT PUMP (INDOOR UNIT)
AHU	AIR HANDLING UNIT
EF	EXHAUST FAN
HC	HEATING COIL
ME	MISCELLANEOUS EQUIPMENT
V	VALVE

PLUMBING FIXTURE LABELS	
XXXX## — "##" = REFERENCE (SHOWN WHEN THERE ARE MULTIPLE TYPES) "XXX" = CATEGORY LABEL	
LABEL	DESCRIPTION
BT	BATHTUB
DF	DRINKING FOUNTAIN
FD	FLOOR DRAIN
FDF	FUNNEL FLOOR DRAIN
JS	JANITOR SINK
L	LAVATORY
S	SINK
SH	SHOWER
TMV	TEMPERATURE MIXING VALVE
VTR	PLUMBING VENT THROUGH ROOF
W	WATER CLOSET





## PLUMBING LEGEND

	FLOOR DRAIN, AREA DRAIN, OR FLOOR SINK
	FUNNEL FLOOR DRAIN
	ROOF DRAIN ABOVE
	DRAIN (SCHEMATIC)
	CONNECTION TO PLUMBING FIXTURE VIA P-TRAP
	RUNNING TRAP
	CLEANOUT
	FLOOR CLEANOUT TOP SYMBOL USED FOR PLANS THAT ARE ASSOCIATED WITH THE CLEANOUT'S ACCESS.
	BOTTOM SYMBOL USED FOR PLANS THAT ARE ASSOCIATED WITH THE CLEANOUT'S PIPING.
	BACK-FLOW PREVENTER "XXXX" = DOWA DENOTES DOUBLE CHECK VALVE ASSEMBLY "XXXX" = RPV DENOTES REDUCED PRESSURE PRINCIPLE
	TRAP SEAL PRIMER PANEL

# MEDICAL GAS SYSTEMS LEGEND

	ZONE VALVE PANEL
	ZONE ALARM PANEL
	ZONE VALVE & ALARM COMBINATION PANEL
	MEDICAL SUPPORT GAS REGULATION CONTROL PANEL
	SUPPLY SYSTEM ALARM PANEL (MASTER ALARM PANEL)
	MEDICAL GASES TERMINAL UNITS. 'X' = TYPE OF MEDICAL GAS (REFER TO MECHANICAL PIPING IDENTIFICATION FOR ABBREVIATIONS)
	MEDICAL PIPELINE DEMARCATION POINT
	'22' = BY DIVISION 22
	'NIMC' = NOT IN MECH CONTRACT

# FIRE PROTECTION SYSTEMS LEGEND

●	PENDANT SPRINKLER HEAD
○	UPRIGHT SPRINKLER HEAD
■	CONCEALED SPRINKLER HEAD
	SUPERVISED VALVE 'XX' = SUPERVISED VALVE NUMBER
	SPRINKLER CONTROL CABINET
	FIRE HOSE CABINET
	FIRE EXTINGUISHER

VENTILATION SYSTEMS LEGEND (2)

OR

DUCT OFFSET UP

OR

DUCT OFFSET DOWN

OR

FLEXIBLE DUCT

OR

FLEXIBLE CONNECTION

OR

BALANCING DAMPER

OR

BACKDRAFT DAMPER

OR

MOTORIZED DAMPER

OR

FIRE DAMPER

OR

MOTORIZED FIRE DAMPER

OR

SMOKE DAMPER

OR

COMBINATION FIRE AND SMOKE DAMPER

OR

SILENCER

OR

DUCT-MOUNTED COIL

OR

DUCT-MOUNTED HUMIDIFIER IN SECTION OF WATERPROOF DUCT

OR

AIR TERMINAL UNIT  
'XX' = UNIT SIZE  
'YYYYY' = AIR TERMINAL UNIT REFERENCE

OR

AIR TERMINAL UNIT WITH HYDRONIC REHEAT COIL  
'XX' = UNIT SIZE  
'YYYYY' = AIR TERMINAL UNIT REFERENCE

OR

AIR TERMINAL UNIT WITH ELECTRIC REHEAT COIL  
'XX' = TERMINAL BOX SIZE  
'YYYYY' = AIR TERMINAL UNIT REFERENCE

FAN (SCHEMATIC)

OR

'XX' = SUPPLY REGISTER, GRILLE, OR DIFFUSER TYPE REFERENCE  
'YYY' = AIRFLOW RATE  
IF SHOWN, ARROW(S) REFER TO THE AIRFLOW DIRECTION(S) FOR AIR PATTERN CONTROLLER / DEFLECTION DAMPER SETTINGS.

OR

'XX' = RETURN/EXHAUST GRILLE TYPE REFERENCE  
IF SHOWN, 'ZZZ' = AIRFLOW RATE

OR

SUPPLY DIFFUSER  
'###' = NECK SIZE  
IF SHOWN, SHADED REGION = BLANK OFF AIRFLOW IN THAT DIRECTION

OR

CEILING SUPPLY REGISTER / GRILLE  
'###/###' = REGISTER / GRILLE SIZE

OR

SIDEWALL SUPPLY REGISTER / GRILLE  
'###/###' = REGISTER / GRILLE SIZE

OR

CEILING PLENUM RETURN GRILLE  
'###/###' = GRILLE SIZE

OR

CEILING RETURN/EXHAUST GRILLE  
'###/###' = GRILLE SIZE

OR

SIDEWALL RETURN/EXHAUST GRILLE  
'###/###' = GRILLE SIZE




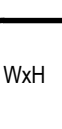
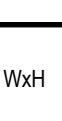
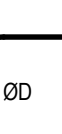
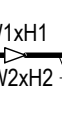
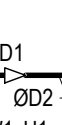
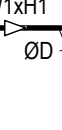
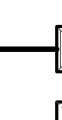


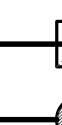
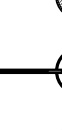




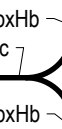
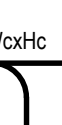
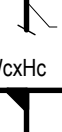
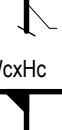
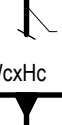
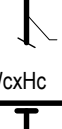
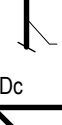
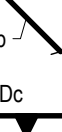
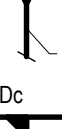
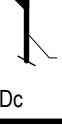



EXPLANATORY NOTES:

[1] REFER TO GENERAL NOTES OR DRAWING NOTES FOR INSULATION DETAILS.

[2] BALANCING DAMPERS (BD) ARE NOT SHOWN FOR BREVITY. REFER TO SPECIFICATIONS, AND/OR DETAIL DRAWINGS, AND/OR BELOW FOR REQUIREMENTS OF BD'S.

[3] 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.

### VENTILATION SYSTEMS LEGEND (1)

	OR		RECTANGULAR DUCT
	OR		ROUND DUCT
	OR		DUCTWORK TO BE ACOUSTICALLY LINED
	OR		INSULATE DUCTWORK THAT IS NOT NORMALLY INSULATED AS DESCRIBED BY THE SPECIFICATIONS. [NOTE 1]
	OR		FIRE PROTECTED DUCTWORK
	OR		END OF DUCT
	OR		ELBOW FOR RECTANGULAR DUCT
	OR		ELBOW FOR ROUND DUCT
	OR		TRANSITION (RECTANGULAR TO RECTANGULAR)
	OR		TRANSITION (ROUND TO ROUND)
	OR		TRANSITION (RECTANGULAR TO ROUND)
	OR		RECTANGULAR SUPPLY DUCT UP
	OR		RECTANGULAR SUPPLY DUCT DOWN
	OR		RECTANGULAR RETURN DUCT UP
	OR		RECTANGULAR RETURN DUCT DOWN
	OR		RECTANGULAR EXHAUST DUCT UP
	OR		RECTANGULAR EXHAUST DUCT DOWN
	OR		ROUND SUPPLY DUCT UP
	OR		ROUND SUPPLY DUCT DOWN
	OR		ROUND RETURN DUCT UP
	OR		ROUND RETURN DUCT DOWN
	OR		ROUND EXHAUST DUCT UP
	OR		ROUND EXHAUST DUCT DOWN
	OR		XX-## = THE FAN ASSOCIATED WITH THE DUCT WYE [NOTE 2]
	OR		TEE [NOTE 2]
	OR		RADIUS BRANCH TAP [NOTE 2]
	OR		45° ENTRY BRANCH TAP [NOTE 2]
	OR		RECTANGULAR MAIN TO ROUND TAP, ECCENTRIC [NOTE 2]
	OR		RECTANGULAR MAIN TO ROUND TAP, CONICAL [NOTE 2]
	OR		RECTANGULAR MAIN TO ROUND TAP (SPIN-ON) [NOTE 2]
	OR		ROUND 45° WYE [NOTE 2]
	OR		ROUND CONICAL TAP [NOTE 2]
	OR		ROUND 45° BRANCH TAP [NOTE 2]
	OR		ROUND TAP (SPIN-ON) [NOTE 2]

XXYYY#

OR

⊗

INDOOR

⊗

SUPPORTED FROM EQUIPMENT OR FROM SERVER RACK

▽

OUTDOOR

CONTROL POINT  
(REFER TO CONTROL POINT LEGEND)

CONTROL RELATIONSHIP

SENSOR/SENSING ELEMENTS AS SHOWN.  
'X' INDICATES THE PROPERTY THAT IS BEING MEASURED.  
ABBREVIATIONS ARE AS FOLLOWS:  
'F' = FLOW  
'H' = HUMIDITY  
'P' = PRESSURE  
'T' = TEMPERATURE

⊗

XX

NO

NC

C

4-WAY TYPE SHOWN ON RIGHT

CONTROL VALVE

2-WAY TYPE SHOWN ON LEFT [NOTE 2]  
3-WAY TYPE SHOWN IN MIDDLE [NOTE 3]  
4-WAY TYPE SHOWN ON RIGHT

□

DF

XX

+

MOTORIZED DAMPER (SCHEMATIC)  
OPPOSED BLADE OR PARALLEL BLADE AS SPECIFIED  
'DF' = DAMPER NUMBER  
[NOTE 2]

□

BAS

SPACE RESERVED FOR BAS OPERATOR'S WORKSTATION

EXPLANATORY NOTES:  
[1] NOT USED.  
[2] IF SHOWN, 'XX' = 'NC' WHEN LOSS OF SIGNAL OR 0% SIGNAL, THE VALVE/DAMPER IS CLOSED. IF SHOWN, 'XX' = 'NO' WHEN LOSS OF SIGNAL OR AT 0% SIGNAL, THE VALVE/DAMPER IS OPEN.  
[3] WHEN LOSS OF SIGNAL OR 0% SIGNAL, 'NO' PORT IS OPEN, 'NC' PORT IS CLOSED. WHEN AT 100% SIGNAL, 'NO' PORT IS CLOSED, 'NC' PORT IS OPEN. 'C' PORT IS ALWAYS FULLY OPEN.

CONTROL POINT LEGEND

SEQUENCE NUMBER [NOTE 1]  
4TH CHARACTER (IF APPLICABLE)  
3RD CHARACTER (IF APPLICABLE)  
2ND CHARACTER (IF APPLICABLE)  
1ST CHARACTER  
POINT TYPE

XX-XX-XX-XX-#

EXPLANATORY NOTES:  
[1] A SEQUENTIAL POINT NUMBER IS ADDED TO THE END OF AN ABBREVIATION IF THERE IS MORE THAN ONE INSTANCE OF THE SAME TYPE OF INSTRUMENT OR DEVICE ON THE SAME SCHEMATIC.

AI

ANALOG INPUT

AO

ANALOG OUTPUT

DI

DISCRETE INPUT

DO

DISCRETE OUTPUT

SC

SERIAL COMMUNICATION

POINT TYPE

◆

NC

◆

NO

◆

NC

+

HARDWIRED INTERLOCK WITH "CLOSED" ENDSWITCH  
HARDWIRED INTERLOCK WITH "OPEN" ENDSWITCH  
HARDWIRED INTERLOCK WITH ACTUATOR DAMPER TAG NUMBER  
'NC' = NORMALLY CLOSED  
'NO' = NORMALLY OPEN

POINT ABBREVIATION

LETTER	1st CHARACTER (FUNCTION)	2nd CHARACTER (MODIFIER)	3rd CHARACTER (MODIFIER)	4th CHARACTER (MODIFIER)
A	GAS ANALYSIS		ALARM	ALARM
C	MANUAL CONTROL	CLOSE	CLOSE	
D	DAMPER	DIFFERENTIAL		
E	EQUIPMENT (GENERAL)			
F	FLOW			
H	HUMIDITY	HIGH	HIGH	
I	CURRENT, VOLT, OR KW			
L	LEVEL	LOW	LOW	
O		OPEN	OPEN	
M	MISCELLANEOUS			
P	PRESSURE			
R	RATE, CAPACITY, OUTPUT	RESET	REVERSE	
S	SPEED, FREQUENCY	START/STOP		
T	TEMPERATURE	STATUS		
V	VALVE			
X	PILOT LIGHT	TRANSMITTER		
Z		POSITION		

1. GENERAL
2. THIS LEGEND APPLIES TO THE WORK UNDER DIVISIONS 20 TO 25.
3. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS SECTION 01-00-00 AND 20-25 AND THE APPLICATION SECTIONS OF DIVISION 01.
4. ITEMS SHOWN **SCREENED** ARE EXISTING TO REMAIN
5. NOT ALL SYMBOLS IN THE LEGENDS ARE PRESENT ON THE DRAWINGS
6. ITEMS SHOWN ARE DIAGRAMMATIC AND ILLUSTRATE THE GENERAL LOCATION OF EQUIPMENT AND GENERAL ROUTING OF PIPING AND DUCTWORK. CONTRACTOR SHALL VERIFY ALL ITEMS ON SITE PRIOR TO COMMENCING WORK.
7. UNLESS OTHERWISE NOTED, PIPE SIZES ARE SHOWN IN INCHES (IN)
8. UNLESS OTHERWISE NOTED, DUCT SIZES ARE SHOWN IN INCHES (IN)
9. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN INCHES (IN)
10. UNLESS OTHERWISE NOTED, ALL AIR FLOW RATES ARE LISTED IN CUBIC FEET PER MINUTE (CFM)
11. UNLESS OTHERWISE NOTED, ALL LIQUID FLOW RATES ARE LISTED IN GALLONS PER MINUTE (GPM)
12. THE EXISTING ITEMS SHOWN HAS BEEN TAKEN FROM BEST AVAILABLE SOURCE AND DOES NOT NECESSARILY CAPTURE ALL AS-BUILT CONDITIONS. CONTRACTOR TO VERIFY ALL ITEMS ON SITE PRIOR TO COMMENCING WORK.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR CARRYING OUT ANY PORTION OF MECHANICAL WORK. WORK TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS.

PHASING:

1. THE MECHANICAL DRAWINGS REFER TO "PHASE K2E" AND "PHASE K3E" TO DIFFERENTIATE BETWEEN THE WORK ASSOCIATED WITH RENOVATING K WING, 2ND FLOOR, EAST POD (K2E) AND K WING, 3RD FLOOR, EAST POD (K3E). THERE IS WORK DURING "PHASE K3E" LOCATED ON FLOOR K2E, AND VICE VERSA. THE CONTRACTOR SHALL ASSUME THAT "PHASE K3E" WORK ON K2E CANNOT BE COMPLETED DURING "PHASE K2E" AND VICE VERSA.
2. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR SCOPE OF PHASING AND OFFICIAL NAMES OF EACH PHASE. MECHANICAL WORK SHOWN ON THESE DRAWINGS ARE MUST BE DONE TO REFLECT THE ARCHITECTURAL PHASING OF THE WORK.
3. THIS DIVISION SHALL EXAMINE OVERALL SCOPE OF WORK TO PROVIDE SERVICES AS REQUIRED IN OWNER OCCUPIED PHASED AREAS.
4. CONTRACTOR SHALL MAINTAIN EXISTING OR PROVIDE ADDITIONAL PIPING, DUCTWORK ETC., AS REQUIRED TO MAINTAIN SERVICES TO OWNER OCCUPIED AREAS.
5. MECHANICAL WORK WILL NOT BE RESTRICTED TO PHASED AREAS OF WORK. ALSO, REFER TO AND COMPLY WITH "THE PROJECT" AND "GENERAL NOTES" ON ARCHITECTURAL DRAWINGS.

PIPPING SYSTEMS:

1. FOR WORK IN EXISTING BUILDINGS, CONTRACTOR SHALL ALLOW FOR DRAINING OF THE SYSTEMS AS REQUIRED TO COMPLETE WORK
2. FOR WORK IN EXISTING BUILDINGS, ASSUME EXISTING SHUT-OFF VALVES ARE HOLDING
3. SAP ALL PIPE ENDS DURING DEMOLITION
4. ALL SANITARY PIPING SHOWN TO HAVE A MINIMUM 1% SLOPE UNLESS OTHERWISE INDICATED
5. CO-ORDINATE LOCATION OF DEVICES LOCATED IN CEILING REQUIRING ACCESS (VALVES, REGULATORS, ETC.) WITH CEILING ACCESS PANELS
6. FOR WORK IN EXISTING BUILDINGS, SIZE AND EXACT LOCATION OF EXISTING RISERS TO BE CONFIRMED ON SITE

VENTILATION SYSTEMS:

1. FOR WORK IN EXISTING BUILDINGS, ALL DUCT COLLARS MADE REDUNDANT BY THE PROJECT SHALL BE CAPPED OFF
2. FOR WORK IN EXISTING BUILDINGS, DURING CONSTRUCTION, COVER OPEN ENDS OR REGISTERS/GRILES OF ACTIVE RETURN AND EXHAUST AIR DUCTS WITH FILTER MEDIA SECURED BY METAL BAND PULLED TIGHT AROUND DUCT BY MEANS OF SCREWS. MAINTAIN THIS MEDIA UNTIL WORK IN AREA IS COMPLETED
3. LENGTH OF FLEX DUCT SHALL NOT EXCEED 1500mm (5'-0"). USE RIGID ROUND DUCT IF THE DISTANCE BETWEEN THE AIR TERMINAL AND THE SPIN-ON CONNECTION/BRANCH TAP REQUIRES LONGER LENGTHS.
4. ALL SUPPLY AIR DUCTWORK INCLUDING FLEX DUCTS SHALL BE INSULATED
5. SERVICES ABOVE RETURN GRILLES TO BE PAINTED PALL BLACK

CONTROLS:


1. SPACE TEMPERATURE SENSORS, THERMOSTATS, SPACE HUMIDITY SENSORS, AND HUMIDISTATS TO BE APPROXIMATELY 1200mm (4'-0") AFF AND ALIGNED WITH LIGHT SWITCHES. FINAL LOCATION TO BE REVIEWED WITH THE CONSULTANT
2. FOR WORK IN EXISTING BUILDINGS, CONTROLS WORK TO BE CARRIED OUT BY BASE BUILDING CONTROLS CONTRACTOR

DEMOLITION

1. DEMOLISH SYSTEMS AND EQUIPMENT WHERE SHOWN ON DRAWINGS OR SPECIFICATIONS. OTHERWISE, EXISTING SYSTEMS AND EQUIPMENT ARE TO REMAIN, EVEN IF NOT SHOWN ON THE DRAWINGS.


DRAWING LIST	
M-001	LEAD SHEET
M-002A	MECHANICAL DETAILS I
M-002B	MECHANICAL DETAILS II
M-002C	MECHANICAL DETAILS III
M-003	MECHANICAL SCHEDULES
M-101	K-1-E - PLUMBING DEMOLITION - PHASE K-2-E
M-102	K-2-E - PLUMBING DEMOLITION - PHASE K-2-E
M-103	K-1-E - VENTILATION DEMOLITION - PHASE K-2-E
M-104	K-2-E - VENTILATION DEMOLITION - PHASE K-2-E
M-105	K-1-E - HVAC PIPING DEMOLITION - PHASE K-2-E
M-106	K-2-E - HVAC PIPING DEMOLITION - PHASE K-2-E
M-107	K-2-E - MEDICAL GAS DEMOLITION - PHASE K-2-E
M-108	K-2-E - FIRE PROTECTION DEMOLITION - PHASE K-2-E
M-121	K-1-E - PLUMBING NEW WORK - PHASE K-2-E
M-122	K-2-E - PLUMBING NEW WORK - PHASE K-2-E
M-123	K-1-E - VENTILATION NEW WORK - PHASE K-2-E
M-124	K-2-E - VENTILATION NEW WORK - PHASE K-2-E
M-125	K-1-E - HVAC PIPING NEW WORK - PHASE K-2-E
M-126	K-2-E - HVAC PIPING NEW WORK - PHASE K-2-E
M-127	K-2-E - MEDICAL GAS NEW WORK - PHASE K-2-E
M-128	K-2-E - FIRE PROTECTION NEW WORK - PHASE K-2-E
M-201	K-2-E - PLUMBING DEMOLITION - PHASE K-3-E
M-202	K-3-E - PLUMBING DEMOLITION - PHASE K-3-E
M-203	K-2-E - VENTILATION DEMOLITION - PHASE K-3-E
M-204	K-3-E - VENTILATION DEMOLITION - PHASE K-3-E
M-205	K-2-E - HVAC PIPING DEMOLITION - PHASE K-3-E
M-206	K-3-E - HVAC PIPING DEMOLITION - PHASE K-3-E
M-207	K-3-E - MEDICAL GAS DEMOLITION - PHASE K-3-E
M-208	K-3-E - FIRE PROTECTION DEMOLITION - PHASE K-3-E
M-221	K-2-E - PLUMBING NEW WORK - PHASE K-3-E
M-222	K-3-E - PLUMBING NEW WORK - PHASE K-3-E
M-223	K-2-E - VENTILATION NEW WORK - PHASE K-3-E
M-224	K-3-E - VENTILATION NEW WORK - PHASE K-3-E
M-225	K-2-E - HVAC PIPING NEW WORK - PHASE K-3-E
M-226	K-3-E - HVAC PIPING NEW WORK - PHASE K-3-E
M-227	K-3-E - MEDICAL GAS NEW WORK - PHASE K-3-E
M-228	K-3-E - FIRE PROTECTION NEW WORK - PHASE K-3-E
M-229	K WING, EAST ROOF PLAN - MECHANICAL


DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
2025-07-21	ISSUED FOR BUILDING PERMIT	3
2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7



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Project Leader <b>M. LIGHT</b>	Checked <b>M. LIGHT</b>

**OWNER**  

**Sunnybrook**  
 HEALTH SCIENCES CENTRE

**Project**  
 PHASE1: SHSC GIM Decant (K2E)  
 PHASE2: SHSC Renovation of C2 Decant (K3E)

TORONTO, ON, CANADA

**Drawing Title**  
 MECHANICAL SYMBOL LEGEND, DRAWING LIST, AND GENERAL NOTES

**Scale:** NTS

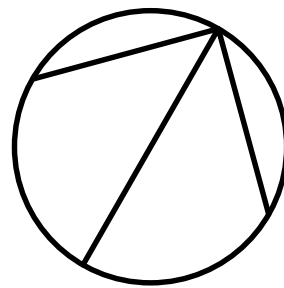
**Project No.** HS1024-0383 (2240067)

**Drawing No.** M-001



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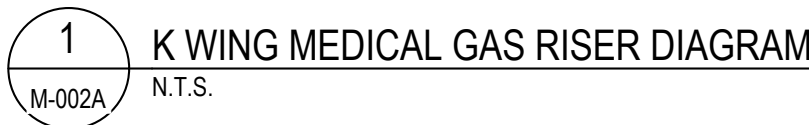
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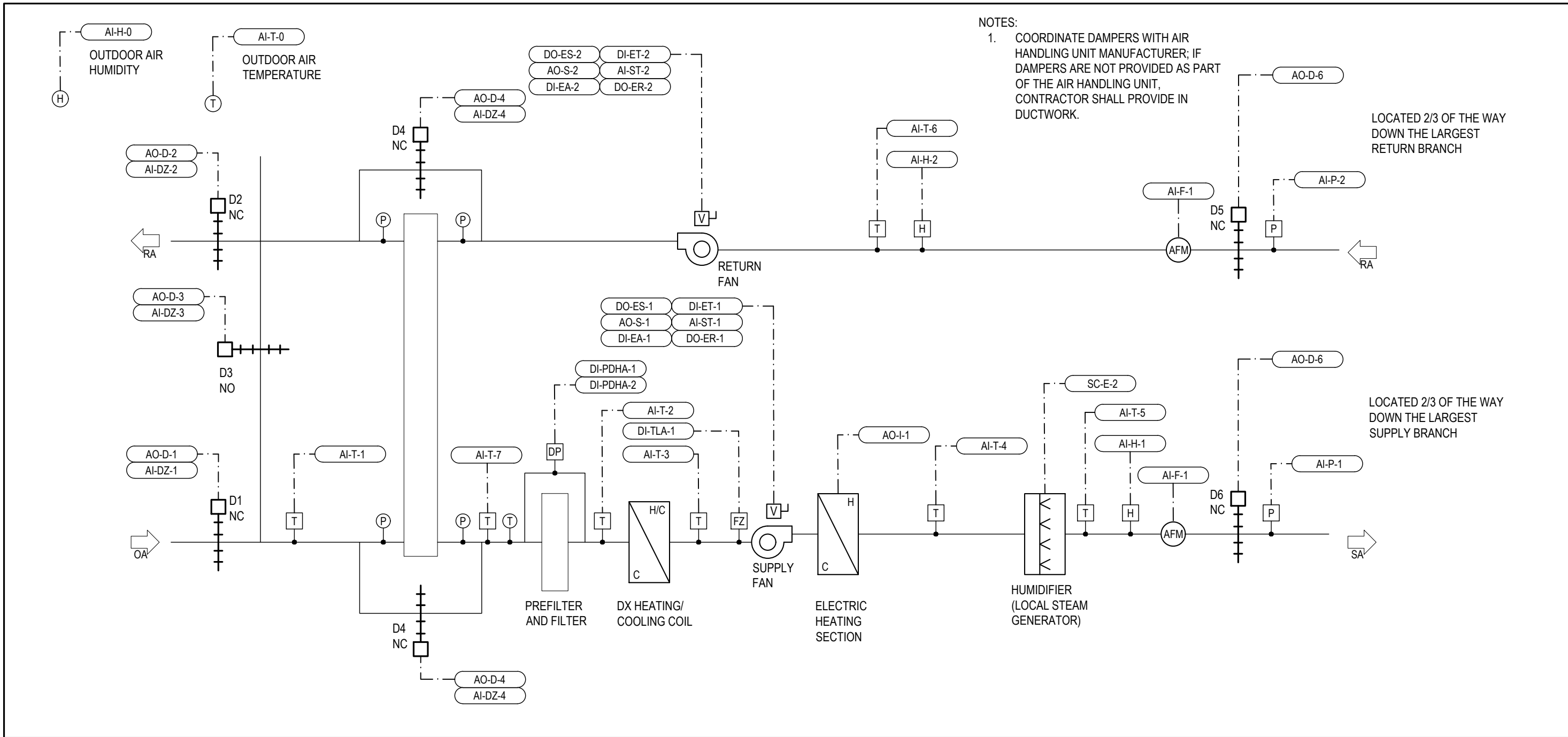
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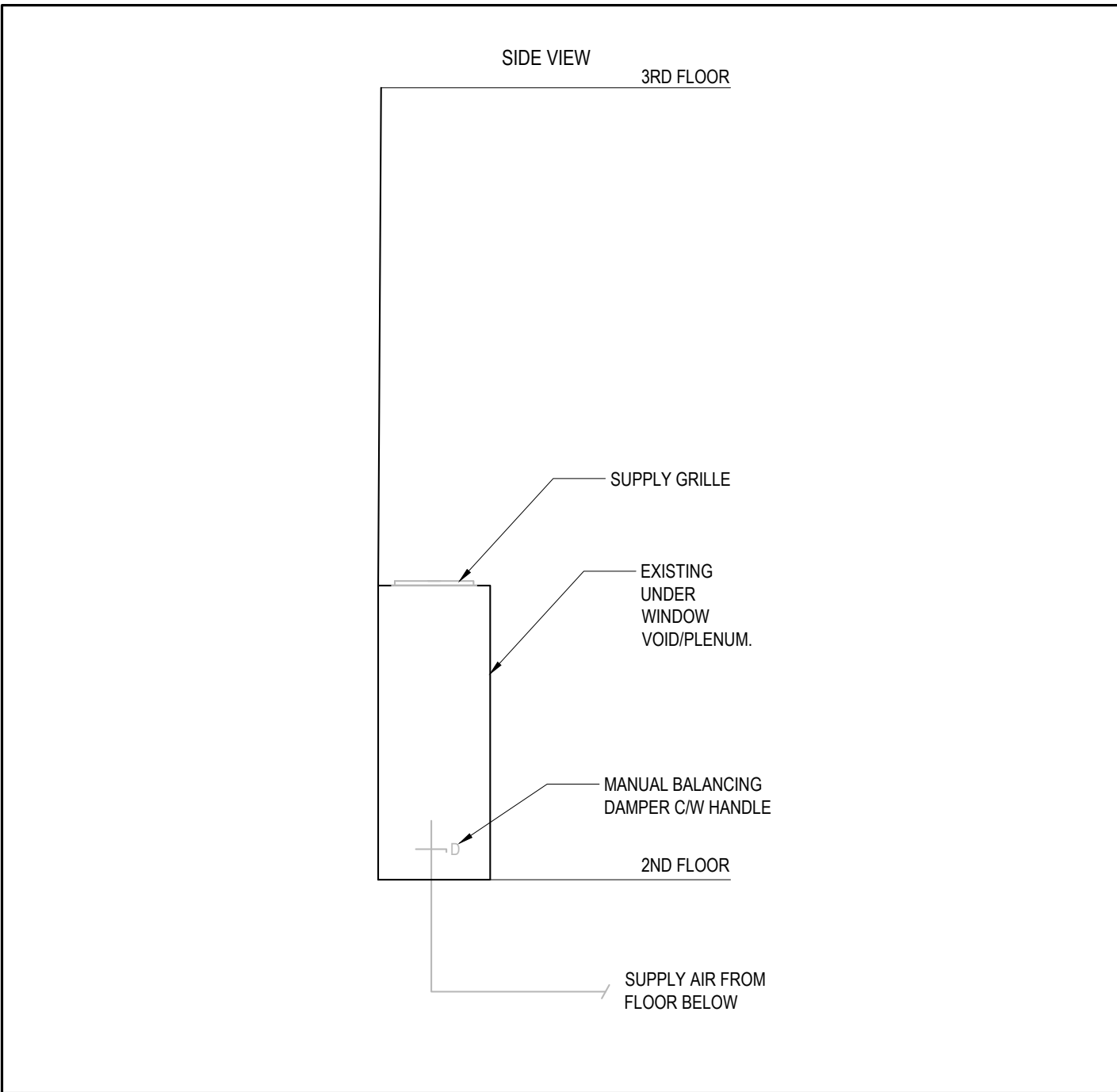
**Drawing Title**  
MECHANICAL DETAILS I

Drawing No. M-002A

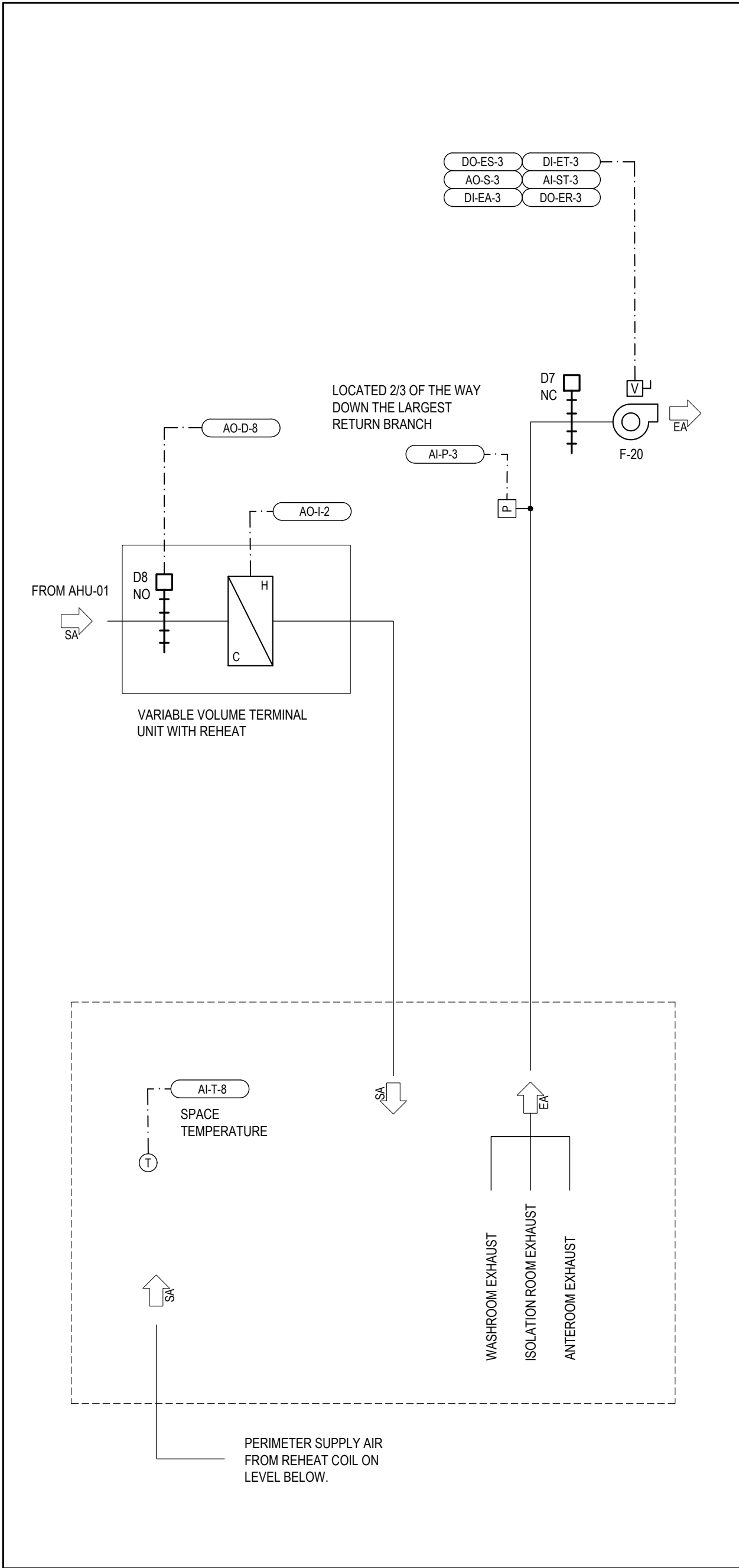




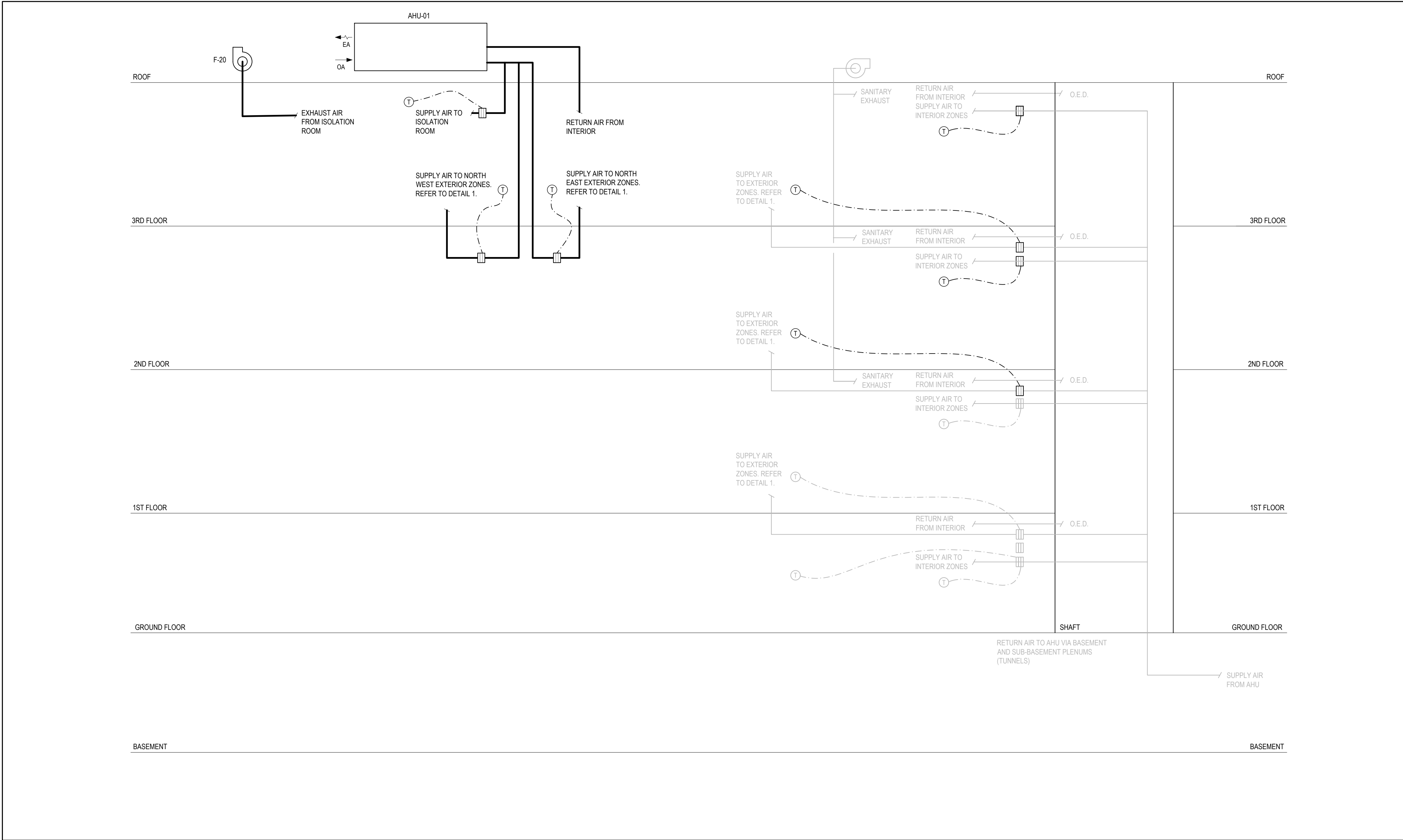
2 AHU WITH ENTHALPY WHEEL CONTROLS DIAGRAM  
M-002B N.T.S.



1 K WING EAST EXTERIOR VENTILATION UNDER WINDOW  
M-002B N.T.S.



4 ISOLATION EXHAUST VENTILATION CONTROL  
M-002B N.T.S.



3 K WING EAST VENTILATION RISER DIAGRAM  
M-002B N.T.S.

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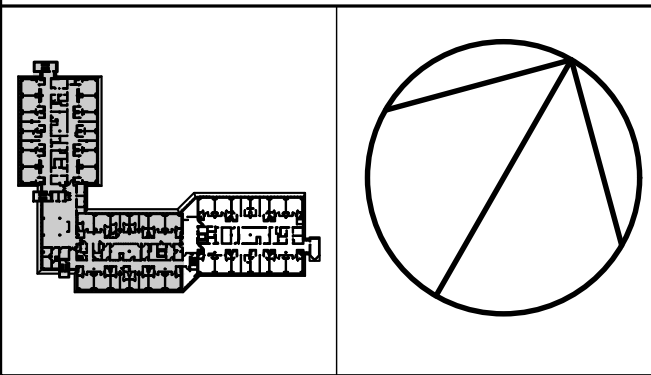


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Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT



**Project**  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

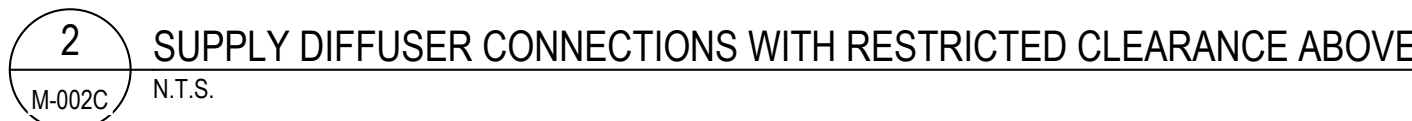
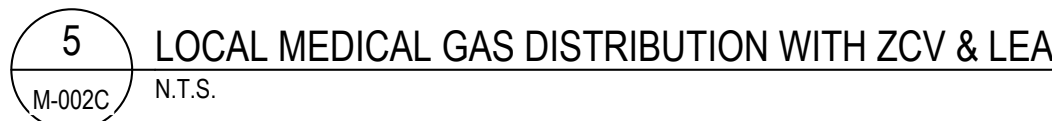
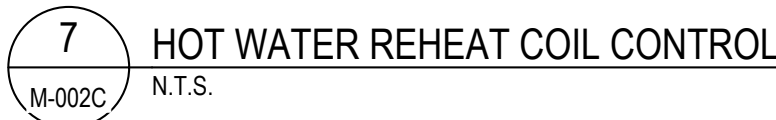
**Drawing Title**  
MECHANICAL DETAILS II

**Scale:** AS INDICATED

**Project No.** HS1024-0383 (2240067)

**Drawing No.**  
M-002B





Drawing No. M-002C



AIR HANDLING UNIT FILTERS									
No.	DESIGNATION	LOCATION	QUANTITY (CFM)	AIR PRESSURE DROP (in.WC)	FACE AREA (FT2)	FACE VELOCITY (FPM)	SIZE (IN.)	TYPE	REMARKS
1	PREFILTER	AHU-01	5,000	0.15	27.0	185.2	18 x 24 x 2	MERV 8	FILTERS ARE COMBO RACK-2" MERV 8 AND 4" MERV 14 FROM FACTORY.
2	FILTER	AHU-01					18 x 24 x 4	MERV 14	

AIR HANDLING UNIT CONDENSING SECTION									
No.	DESIGNATION	LOCATION	COMPRESSOR				CONDENSER FAN		REMARKS
			TYPE	QUANTITY	REFRIGERANT CHARGE (LBS)	TOTAL POWER (KW)	AMPS	NUMBER OF MOTORS	TOTAL FLA (A)
1	CONDENSING SECTION	AHU-01	INVERTER SCROLL	1	34.3	15.44	19.1	2	6.4

AIR HANDLING UNIT																					
TAG	DESIGNATION	MODEL	MANUFACTURER	CAPACITY (CFM)	SOUND POWER LEVELS (dB)								ELECTRICAL				DIMENSIONS (LxHxW) (IN.)	WEIGHT (LBS)	REMARKS		
					OPENING OR RADIATED	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	VOLTAGE/ PHASE/ FREQUENCY	MCA (A)	MOP (A)				UNIT FLA (A)	SCCR
						INLET	79	78	86	78	73	72	67								
AHU-01	AIR HANDLING UNIT	DPSH18B	DAIKIN	5,000	DISCHARGE	85	84	89	84	82	79	74	69	575/60/3	112	125	107.2	10 kAIC	222.5x72.1x76.5	4825	
					RADIATED	80	74	76	76	75	72	73	65								

No.	DESIGNATION	LOCATION	MANUFACTURER	PERFORMANCE DATA				CONSTRUCTION DATA		MOTOR				REMARKS
				CAPACITY (CFM)	EXT. STATIC PRESSURE (IN WC)	R.P.M.	BRAKE HORSEPOWER (HP)	TYPE	DIMENSIONS WHEEL DIAMETER (IN.)	3 PH. HP 575 V	TYPE	EFFICIENCY	FULL LOAD CURRENT (A)	
1	SUPPLY FAN	AHU-01	DAIKIN	5,000	4.0	1492	5.38	SWSI AF DIRECT DRIVE	24	7.5	INDUCTION MOTOR	PREMIUM	8.0	
2	RETURN FAN	AHU-01	DAIKIN	5,000	0.25	1283	2.38	SWSI AF DIRECT DRIVE	22	4.6	ECM - SERIES I	PREMIUM	4.1	

AIR HANDLING UNIT COIL BANK																							
No.	DESIGNATION	LOCATION	TYPE	MODE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	MOISTURE REMOVAL (LB/H)	AIR				REFRIGERANT TYPE	CONSTRUCTION DATA PER COIL					ELECTRICAL			REMARKS		
								QUANTITY (CFM)	AIR PRESSURE DROP (in.WC)	ENTERING			LEAVING		No. OF COILS IN BANK	FINS PER INCH	MIN. ROWS	TOTAL FACE AREA (FT2)	FACE VELOCITY (FPM)	SIZE		CONTROL	FLA (A)
										D.B. °F	W.B. °F		D.B. °F	W.B. °F									
1	COOLING & HEATING	AHU-01	DX	COOLING	226.97	157.33	60.5	5,000	0.18	90.0	73.0	59.1	59.1	R32	1	15	4	19.7	233.6	-	-	-	
				HEATING	85.08	-	5,000	35.0		-	48.6	-											
2	ELECTRIC HEAT SECTION	AHU-01	ELECTRIC	-	85.08	-	-	5,000	0.16	-4.0	-	52.6	-	-	1	-	-	-	-	90 kW	SCR	90.4	

AIR HANDLING ENERGY RECOVERY WHEEL																							
No.	DESIGNATION	LOCATION	PERFORMANCE																ELECTRICAL		REMARKS		
			QUANTITY (CFM)	AIR PRESSURE DROP (in.WC)	SUMMER CONDITIONS						WINTER CONDITIONS						EFFECTIVENESS		MOTOR (HP)	MOTOR (FLA)			
					OUTSIDE AIR		RETURN AIR		MIXED AIR		RECOVERED CAPACITY (MBH)	OUTSIDE AIR		RETURN AIR		MIXED AIR		RECOVERED CAPACITY (MBH)				TOTAL	SENSIBLE
					D.B. °F	W.B. °F	D.B. °F	W.B. °F	D.B. °F	W.B. °F		D.B. °F	W.B. °F	D.B. °F	W.B. °F	D.B. °F	W.B. °F						
1	ENERGY RECOVERY	AHU-01	5,000	1.10	90.0	73.0	75.0	63.0	81.1	68.2	89.1	4.0	5.0	72.0	54.0	33.4	29.4	261.8	0.51	0.52	0.17	0.9	1. COMPLETE WITH BYPASS DAMPER

REHEAT COILS																
TAG	MANUFACTURER	MODEL	AIR				FLUID					CONSTRUCTION PER COIL				REMARKS
			AIRFLOW RATE (CFM)	AIR PRESSURE DROP (IN. WC)	E.A.T. DB (°F)	L.A.T. DB (°F)	FLUID TYPE	E.W.T. (°F)	L.W.T. (°F)	FLUID FLOW (GPM)	FLUID PRESSURE DROP (FT. WC)	RUNOUT PIPE SIZE (NPS)	FACE WIDTH (IN.)	FACE HEIGHT (IN.)	MIN No. ROWS	FACE AREA (FT²)
HC-20	DAIKIN	SWH1002B	4,375	0.29	45	96.4	WATER	180	149.3	16.0	2.3	1-1/2	54	18	2	6.8
HC-22	DAIKIN	SWH1002B	3,925	0.30	45	95.9	WATER	180	149.9	14.5	1.8	1-1/2	48	18	2	6.0
HC-23A	DAIKIN	SWH0802B	2075	0.30	45	96.8	WATER	180	148.9	7.6	0.5	1-1/4	40	18	2	5.0
HC-23B	DAIKIN	SWH1002B	2115	0.30	45	95.7	WATER	180	149.6	7.7	0.4	1-1/4	30	18	2	3.8
HC-24A	DAIKIN	SWQ1201B	3,500	0.24	45	74.1	WATER	180	152.1	8.0	2.0	1-1/4	36	18	1	4.5
HC-24B	DAIKIN	SWQ1301B	2,000	0.22	45	75.3	WATER	180	153.5	5.0	0.9	1	27	15	1	2.8
HC-25	DAIKIN	SWH1002B	3,895	0.30	45	96.8	WATER	180	151.5	15.5	2.0	1-1/2	48	18	2	6.0
HC-26A	DAIKIN	SWQ1201B	3,500	0.23	45	75.7	WATER	180	148.7	7.0	1.5	1-1/4	36	18	1	4.5
HC-26B	DAIKIN	SWQ1301B	2,000	0.21	45	75.3	WATER	180	149.7	5.0	1.0	1	32	15	1	3.3

FAN SCHEDULE											
TAG	SERVICE	LOCATION	MANUFACTURER	MODEL	AIR			CONSTRUCTION DATA			REMARKS
					AIRFLOW RATE (CFM)	EXTERNAL STATIC PRESSURE (in.WC)	RPM	TYPE	DIMENSIONS (in.) (WxDxH)	WEIGHT (lbs)	
F-20	ISOLATION ROOM EXHAUST	K WING ROOF EAST	PENNBARRY	VPLUME 090	750	0.50	3155	VERTICAL UPBLAST	21.5x21.5x122	433	1 HP
											1. REFER TO SPECIFICATION SECTION 23.35.26 HIGH PLUME EXHAUST FAN SYSTEMS FOR MORE REQUIREMENTS.

HUMIDIFIER											
TAG	SERVICE	LOCATION	PERFORMANCE DATA					CONSTRUCTION (BASED ON DRI-STEEM)		MAX. ABSORB. DISTANCE	REMARKS
			AIRFLOW RATE (CFM)	STEAM	DESIGN CONDITIONS			PANEL SIZE			
					CAPACITY (LBS/HR)	OUTDOOR AIR TEMP.(°F)%RH	PERCENTAGE OUTDOOR AIR	INDOOR AIR TEMP.(°F)%RH	HEIGHT (IN.)		
HUM-01	ISOLATION ROOM SUPPLY AHU-01	K WING ROOF EAST	5000	39.56	-4.0 / 64.35	33%	72.0 / 35.00	37.5	49.5	14.0	

SUPPLY HOT WATER REHEAT TERMINAL BOX UNIT SCHEDULE															
MANUFACTURERS DATA						REHEAT COIL DATA							DISCHARGE DUCT SIZE  (UNLESS NOTED OTHERWISE) (in x in)	REMARKS	
UNIT SIZE	INLET DIA (in.)	RECTANGULAR BRANCH TAP OR INLET DUCT SIZE (in. x in.)	SELECTION MFG	MODEL No.	MAX AIR FLOW (CFM)	AIR			WATER						ROWS
						ENT. TEMP. (°F)	LEAV. TEMP. (°F)	FRICTION (S.P. DROP) (in. WG)	ENT. TEMP. (°F)	MAX. FLOW (GPM)	MAX. P.D. (ft.WG)	RUNOUT PIPE SIZE (NPS)			
8	8	14 x 8	EH. PRICE	SDV - 5110	550	55	80	0.13	180	1.20	0.96	3/4"	1	12 x 10	1. ALL TERMINAL BOXES TO BE PRESSURE INDEPENDENT ONE PIECE.

DUCTLESS SPLIT AIR CONDITIONING SYSTEMS	
<div>AC-1A</div> <div>AC-1B</div>	<p>COOLING CAPACITY: 18,000 BTU/H RATED. HEATING CAPACITY: 20,000 BTU/H RATED. INDOOR UNIT WALL-MOUNTED TYPE. ELECTRICAL: INDOOR: 208/1/60. MCA: 0.34A. MOP: 15.00A.</p> <p>INDOOR DIMENSIONS (HxWxD IN.): 11-5/8 x 44-1/8 x 9-3/4 INDOOR WEIGHT: 35.3 LBS.</p> <p>TYPICAL OF DAIKIN FXAA18AAVJU.</p>
<div>CU-1</div>	<p>3 TON OUTDOOR UNIT. MAX INTER-UNIT PIPING LENGTH (FT): 984. MAX INTER-UNIT RATED HEIGHT DIFFERENCE (FT): 49. ELECTRICAL: OUTDOOR: 208/1/60. MCA: 19.8A. MOP: 20A. EFFICIENCY: EER: 14.00. REFRIGERANT: R32.</p> <p>CONDENSER DIMENSIONS (HxWxD IN.): 34-1/4 x 43-5/16 x 18-1/8. CONDENSER WEIGHT: 220 LBS.</p> <p>COMPLETE WITH BAS CARD FOR ABILITY TO CONNECT SYSTEM TO BASE-BUILDING AUTOMATION SYSTEM (JOHNSON CONTROLS INC.' BASE BUILDING AUTOMATION SYSTEM)</p> <p>TYPICAL OF DAIKIN RXTA36AAVJU.</p>
<div>AC-4</div> <div>AC-5</div>	<p>COOLING CAPACITY: 9,000 BTU/H RATED. INDOOR UNIT CEILING CASSETTE TYPE. ELECTRICAL: INDOOR: 208/1/60. MCA: 0.34A. MOP: 15.00A.</p> <p>INDOOR DIMENSIONS (HxWxD IN.): 9-11/16 x 33-1/16 x 33-1/16 INDOOR WEIGHT: 42 LBS.</p> <p>TYPICAL OF DAIKIN FXFA09AAVJU.</p>
<div>CU-4</div> <div>CU-5</div>	<p>0.75 TON OUTDOOR UNIT. MAX INTER-UNIT PIPING LENGTH (FT): X. MAX INTER-UNIT RATED HEIGHT DIFFERENCE (FT): X. ELECTRICAL: OUTDOOR: 208/1/60. MCA: 12.35A. MOP: 15A. EFFICIENCY: SEER: 17. EER: 11. REFRIGERANT: R32.</p> <p>CONDENSER DIMENSIONS (HxWxD IN.): 21-5/8 x 25-5/16 x 10-3/4. CONDENSER WEIGHT: 53 LBS.</p> <p>COMPLETE WITH BAS CARD FOR ABILITY TO CONNECT SYSTEM TO BASE-BUILDING AUTOMATION SYSTEM (JOHNSON CONTROLS INC.' BASE BUILDING AUTOMATION SYSTEM)</p> <p>TYPICAL OF DAIKIN RXTA09AAVJU.</p>
NOTE: CU-2 AND CU-3 ARE EXISTING CONDENSING UNITS.	

MISCELLANEOUS EQUIPMENT	
<div>ME-01</div>	<div>ME-02</div>
<p>ELECTRIC STEAM GENERATOR</p> <p>UNIT CAPACITY: 42.0 LBS/HR. POWER: 14 KW. V/PH/Hz: 120/1/60. MAX AMPS PER UNIT: 0.3 FLA. OVERALL DIMENSIONS (H x L x W in): 62.0 x 32.8 x 53.6. OPERATING WEIGHT: 405.3 LBS.</p>	<p>WALL MOUNTED AIR PURIFICATION SYSTEM</p> <p>MODEL NQ400. AIR VOLUME: 500 CFM. POWER: 276 W. V/PH/Hz: 115/1/60. OVERALL DIMENSIONS (H x L x D in): 32.0 x 26.0 x 12.5. OPERATING WEIGHT: 83 LBS.</p>

GRILLE & DIFFUSER SCHEDULE					
TAG	APPLICATION	MANUFACTURER DATA		OPPOSED BLADE DAMPER	REMARKS
		MANUFACTURER	MODEL DESCRIPTION SIZE INxIN (MMxMM)		
A1	CEILING SUPPLY DIFFUSER	EH PRICE	SPD 12"x12" (300x300)	-	HOSPITAL WHITE. INLET SIZE AS INDICATED ON DRAWINGS.
A2	CEILING SUPPLY DIFFUSER	EH PRICE	SPD 24"x24" (600x600)	-	HOSPITAL WHITE. INLET SIZE AS INDICATED ON DRAWINGS.
C1	RETURN/EXHAUST GRILLE	EH PRICE	80 EGO CRATE. SIZE AS INDICATED ON DRAWINGS.	-	HOSPITAL WHITE.

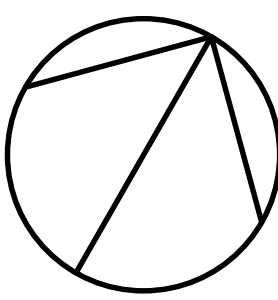
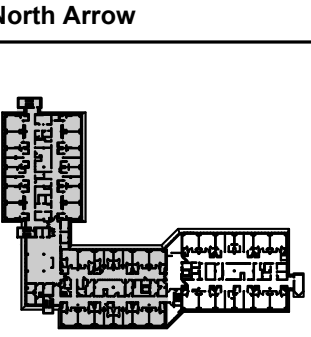
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Nov 2025  
M. LIGHT  
100532573  
PROVINCE OF ONTARIO



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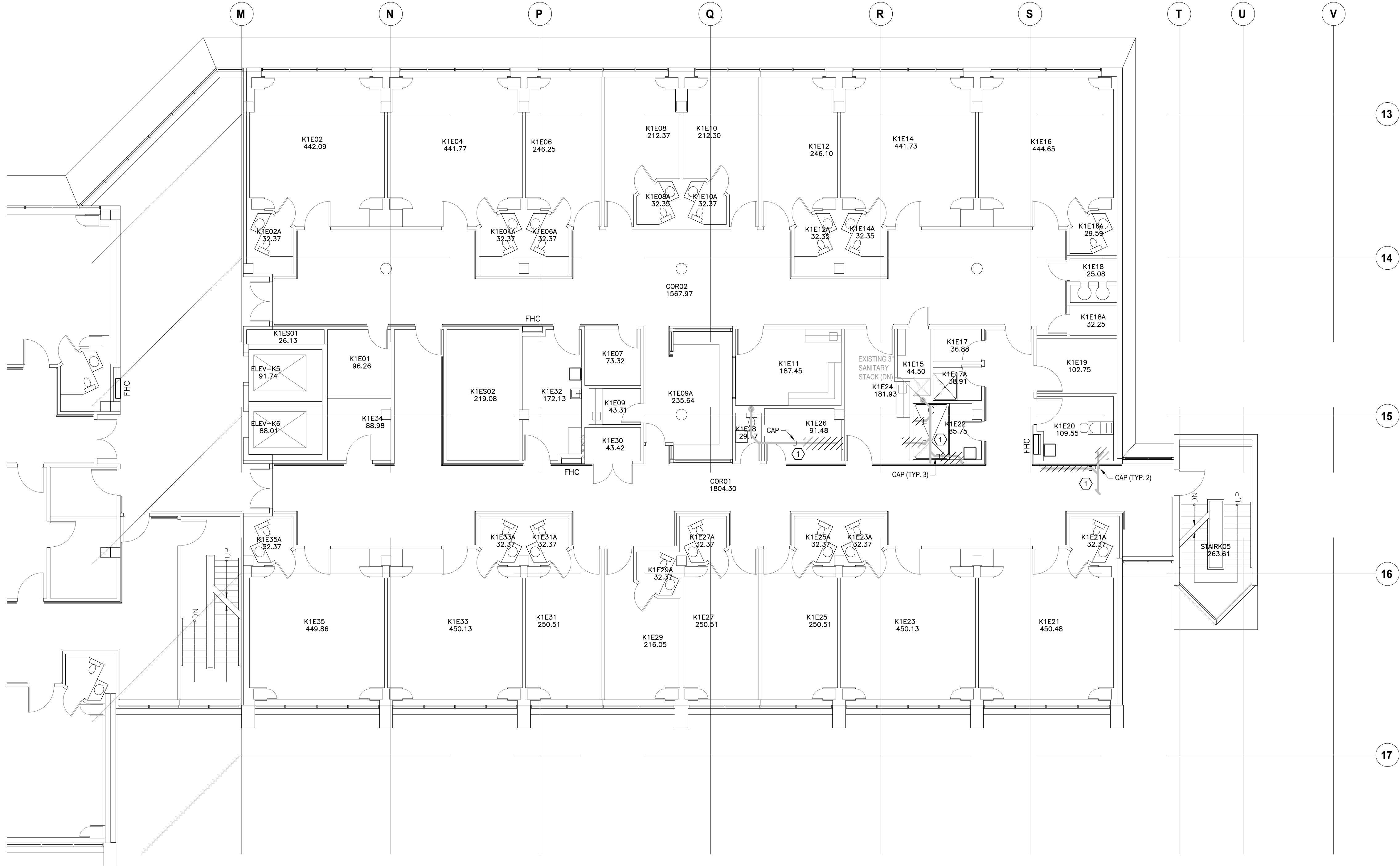
Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT

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Project  
PHASE 1





GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

DRAWING NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. DEMOLISH SANITARY DRAIN SERVING FIXTURE ABOVE AND CAP.

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
2025-07-21	ISSUED FOR BUILDING PERMIT	3
2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7

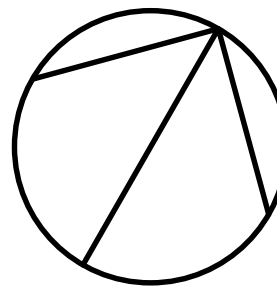
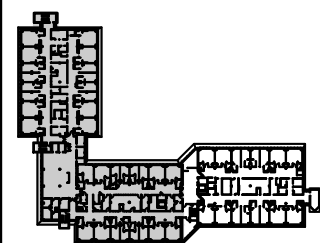


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Seal(s)



**NORR**

NORR Architects & Engineers Limited

175 Bloor Street East  
North Tower, 15th Floor  
Toronto, ON, Canada M4W 3R8  
norr.com

Project Manager

M. LIGHT

Drawn

Z. QIAO

Project Leader

M. LIGHT

Checked

M. LIGHT

OWNER



Project  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

Drawing Title

K WING, 1ST FLOOR, K-1-E, FLOOR PLAN  
PLUMBING DEMOLITION

PHASE - K-2-E RENOVATION

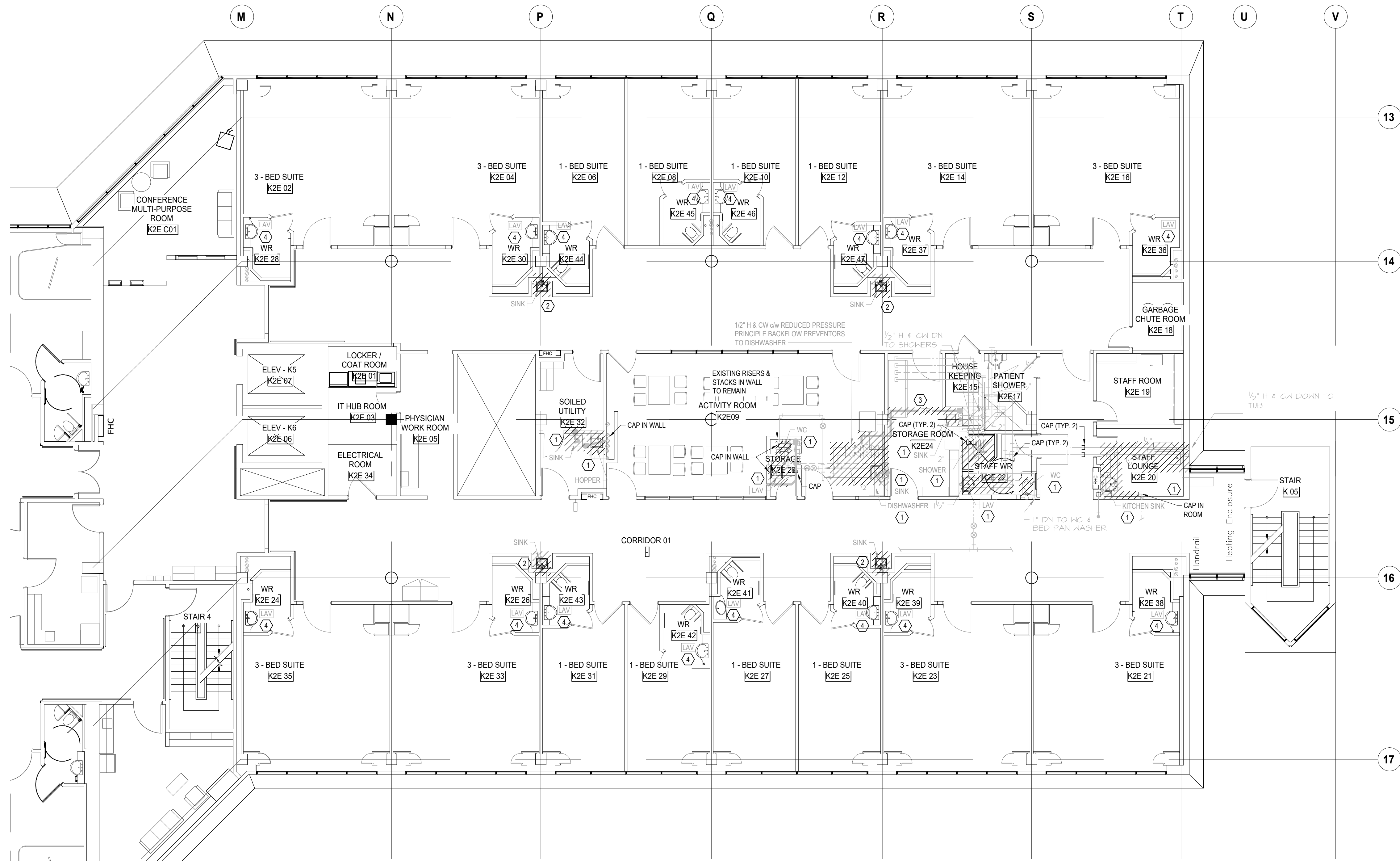
Scale: 1:100

Project No. HS1024-0383 (2240067)

Drawing No.

M-101





(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

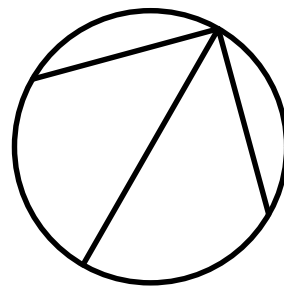
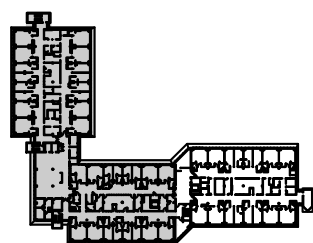
1. DEMOLISH PLUMBING FIXTURE COMPLETE WITH ALL ASSOCIATED DOMESTIC COLD WATER, DOMESTIC HOT WATER, SANITARY DRAINAGE, AND VENT PIPING BACK TO ASSOCIATED MAINS AND CAP.
2. DEMOLISH SINK AND PREPARE FOR CONNECTION OF NEW SINK IN SAME LOCATION. ALLOW FOR REWORKING OF EXISTING DOMESTIC COLD WATER, DOMESTIC HOT WATER, VENT, AND SANITARY PIPING TO SUIT NEW SINK CONNECTIONS. REFER TO NEW WORK.
3. DEMOLISH DRAIN FROM BACKFLOW PREVENTERS TO MOP SINK.
4. REMOVE PATIENT WASHROOM LAVATORY FAUCETS; BASINS TO REMAIN. (TYPICAL)



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## Seal(s)



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norr.com

Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT

OWNER



**Project**  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

**Drawing Title**  
K WING, 2ND FLOOR, K-2-E, FLOOR PLAN  
PLUMBING DEMOLITION

## PHASE - K-2-E RENOVATION

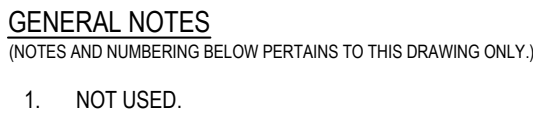
**Scale:** 1:100

**Project No.** HS1024-0383 (2240067)

Drawing No.

M-102





**DRAWING NOTES**  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. DEMOLISH EXISTING REHEAT COIL AND ASSOCIATED DUCTWORK AS SHOWN TO PERMIT NEW WORK. CAP TEMPORARILY WHERE INDICATED.

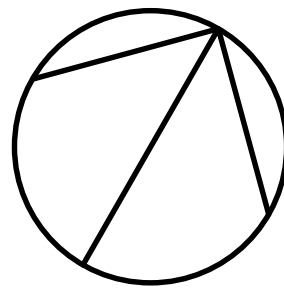
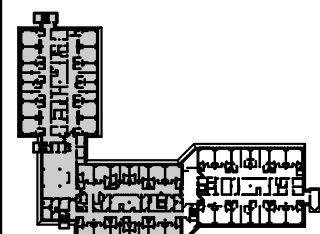
DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
2025-07-21	ISSUED FOR BUILDING PERMIT	3
2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7



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## Seal(s)



**NORR**

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Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT

OWNER



**Project**  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

**Drawing Title**  
K WING, 1ST FLOOR, K-1-E, FLOOR PLAN  
VENTILATION DEMOLITION

PHASE - K-2-E RENOVATION

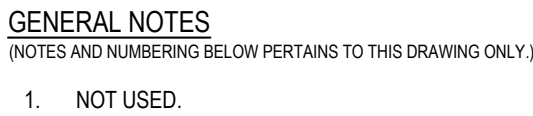
**Scale:** 1:100

**Project No.** HS1024-0383 (2240067)

Drawing No

M-103





- ### DRAWING NOTES
- (NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)
1. EXISTING DRYER VENT UP/DOWN TO REMAIN. DEMOLISH AND CAP TAKEOFFS ON THIS FLOOR. ASSUME WORK IS TO OCCUR AFTER HOURS (BASED ON KIE PALLIATIVE CARE HOURS) TO MINIMIZE IMPACT TO TRAFFIC.
  2. CAP TEMPORARILY UNTIL NEW WORK COMMENCES.
  3. DEMOLISH EXISTING REHAT COIL AND ASSOCIATED DUCTWORK AS SHOWN TO PERMIT NEW WORK. CAP TEMPORARILY WHERE INDICATED.
  4. DEMOLISH OF EXISTING REHAT COIL SERVING KIE TO CORRIDOR DURING RENOVATION OF K3E. REFER TO DRAWINGS M-203 & M-204.
  5. DEMOLISH EXISTING DUCTWORK, GRILLES, AND DIFFUSERS SERVING THIS ROOM TO PERMIT REWORK OF THE EXISTING SUPPLY MAIN AND RETURN MAINS.
  6. DEMOLISH EXISTING GRILLE BALLIC DUCT AND PERMANENTLY CAP.
  7. CAP AND LABEL "DRYER VENT TO ROOF (NOT IN USE)".

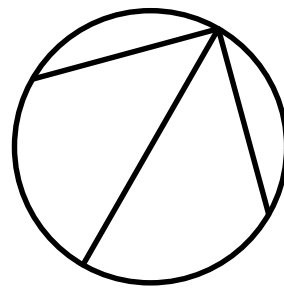
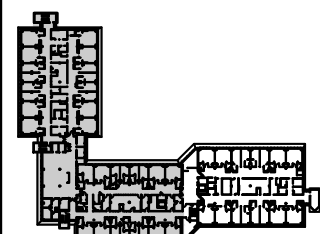
DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
2025-07-21	ISSUED FOR BUILDING PERMIT	3
2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7



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## Seal(s



# NORR

NORR Architects & Engineers Limited

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norr.com

Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT

OWNER



**Project**  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

**Drawing Title**  
K WING, 2ND FLOOR, K-2-E, FLOOR PLAN  
VENTILATION DEMOLITION

PHASE - K-2-E RENOVATION

**Scale:** 1:100

**Project No.** HS1024-0383 (2240067)

Drawing No

M-104





**DRAWING NOTES**  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

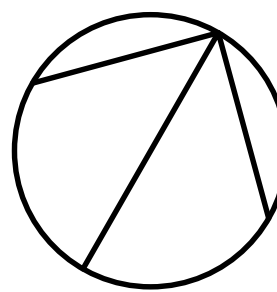
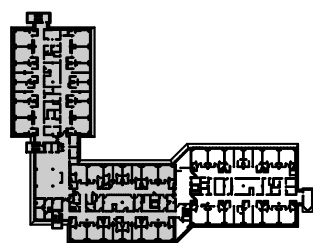
1. DEMOLISH HEATING WATER PIPING TO REHEAT COIL BEING DEMOLISHED. CAP TEMPORARILY.
2. DEMOLISH MAIN HEATING WATER SUPPLY AND RETURN ISOLATION VALVES. REFER TO NEW WORK FOR MORE INFORMATION.
3. DEMOLISH EXISTING WIRING TO THERMOSTATS. THERMOSTATS ARE LOCATED ON THE LEVEL ABOVE IN ROOM K2E04 & ROOM K2E12.
4. DEMOLISH EXISTING WIRING TO THERMOSTATS. THERMOSTATS ARE LOCATED ON THE LEVEL ABOVE IN ROOM K2E33 & ROOM K2E25.



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## Seal(s



# NORR

NORR Architects &amp; Engineers Limited

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norrr.com

Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT

OWNER



**Project**  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

**Drawing Title**  
K WING, 1ST FLOOR, K-1-E, FLOOR PLAN  
HVAC PIPING DEMOLITION

## PHASE - K-2-E RENOVATION

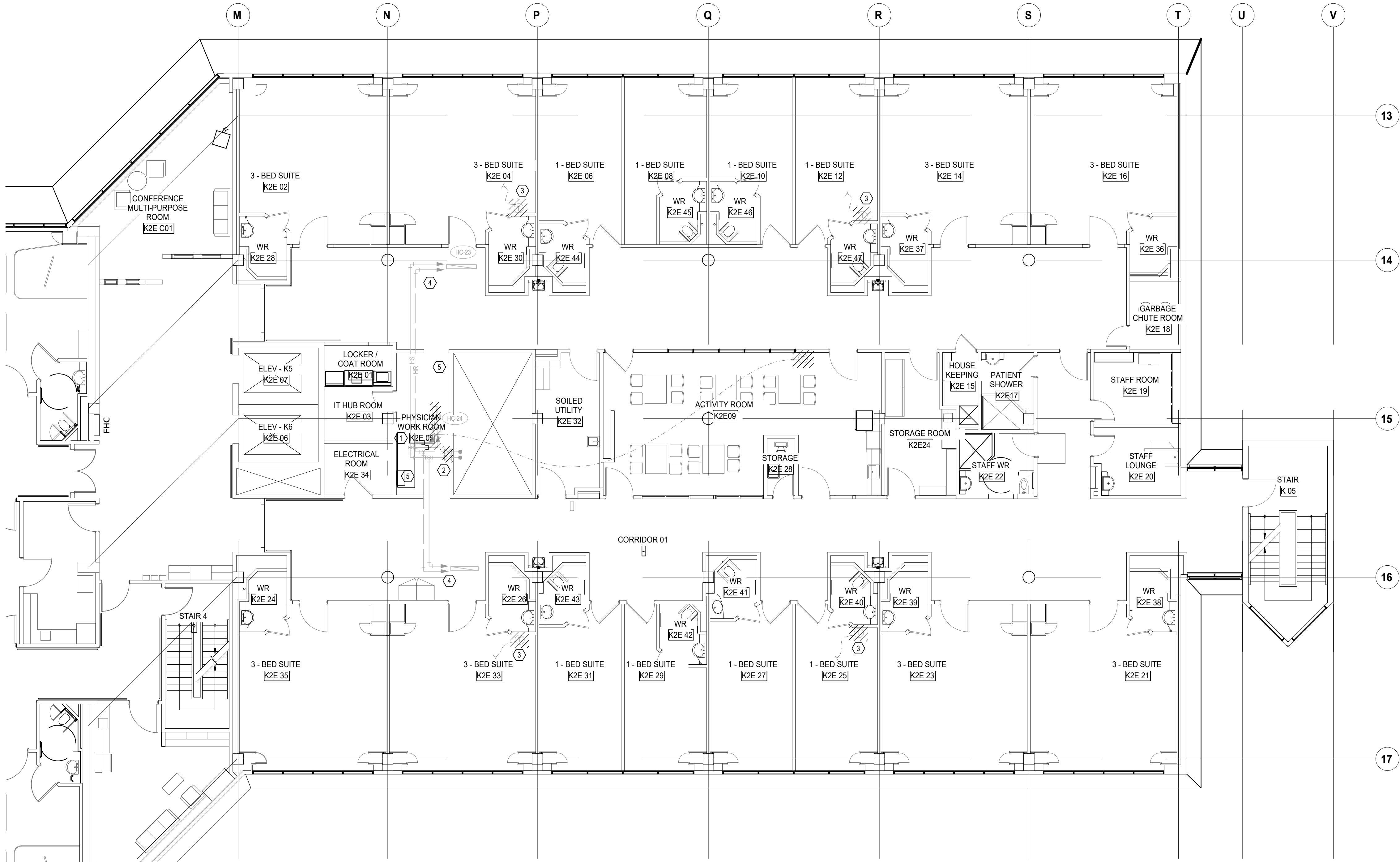
**Scale:** 1:100

**Project No.** HS1024-0383 (2240067

Drawing No.

M-105





GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

- DRAWING NOTES**  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)
- DEMOLISH HEATING WATER PIPING TO REHEAT COIL BEING DEMOLISHED AND CAP.
  - DEMOLISH MAIN HEATING WATER SUPPLY AND RETURN ISOLATION VALVES. REFER TO NEW WORK FOR MORE INFORMATION.
  - DEMOLISH EXISTING THERMOSTAT SERVING REHEAT COIL LOCATED BELOW ON K1E.
  - DEMOLITION OF EXISTING REHEAT COIL SERVING K3E TO OCCUR DURING RENOVATION OF K3E. REFER TO DRAWINGS M-203 & M-204.
  - ALLOW FOR DEMOLITION OF EXISTING HEATING WATER PIPING AND REPLACEMENT WITH NEW TO PERMIT DEMOLITION AND NEW WORK IN THIS ROOM.

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
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2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7

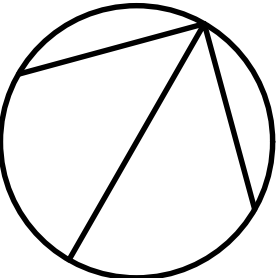
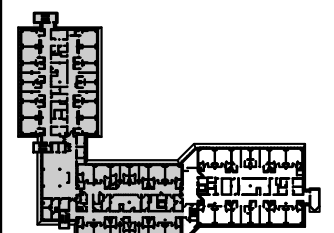


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North Arrow




Seal(s)



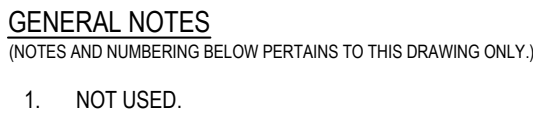
**NORR**

NORR Architects & Engineers Limited

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North Tower, 15th Floor  
Toronto, ON, Canada M4W 3R8  
norr.com

Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT
<b>OWNER</b> 	
<b>Project</b> PHASE1: SHSC GIM Decant (K2E) PHASE2: SHSC Renovation of C2 Decant (K3E)	
TORONTO, ON, CANADA	
<b>Drawing Title</b> K WING, 2ND FLOOR, K-2-E, FLOOR PLAN HVAC PIPING DEMOLITION  PHASE - K-2-E RENOVATION	
<b>Scale:</b> 1:100	
<b>Project No.</b> HS1024-0383 (2240067)	
<b>Drawing No.</b> M-106	





**DRAWING NOTES**  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

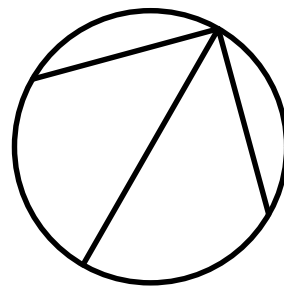
1. DEMOLISH EXISTING ZONE VALVE BOXES AND LOCAL EMERGENCY ALARM PANELS. (TYPICAL)
2. DEMOLISH EXISTING MEDICAL GASES UP TO CEILING.
3. CONTRACTOR SHALL DEMOLISH EXISTING UNDERSIZED 15Ø OXYGEN AND 20Ø MEDICAL VACUUM BRANCHES TO THIS LEVEL. COORDINATE AFTER HOURS SHUTDOWN WITH HOSPITAL.

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
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2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7



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Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT



**Sunnybrook**  
HEALTH SCIENCES CENTRE

**Project**  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

**Drawing Title**  
K WING, 2ND FLOOR, K-2-E, FLOOR PLAN  
MEDICAL GAS DEMOLITION

PHASE - K-2-E RENOVATION

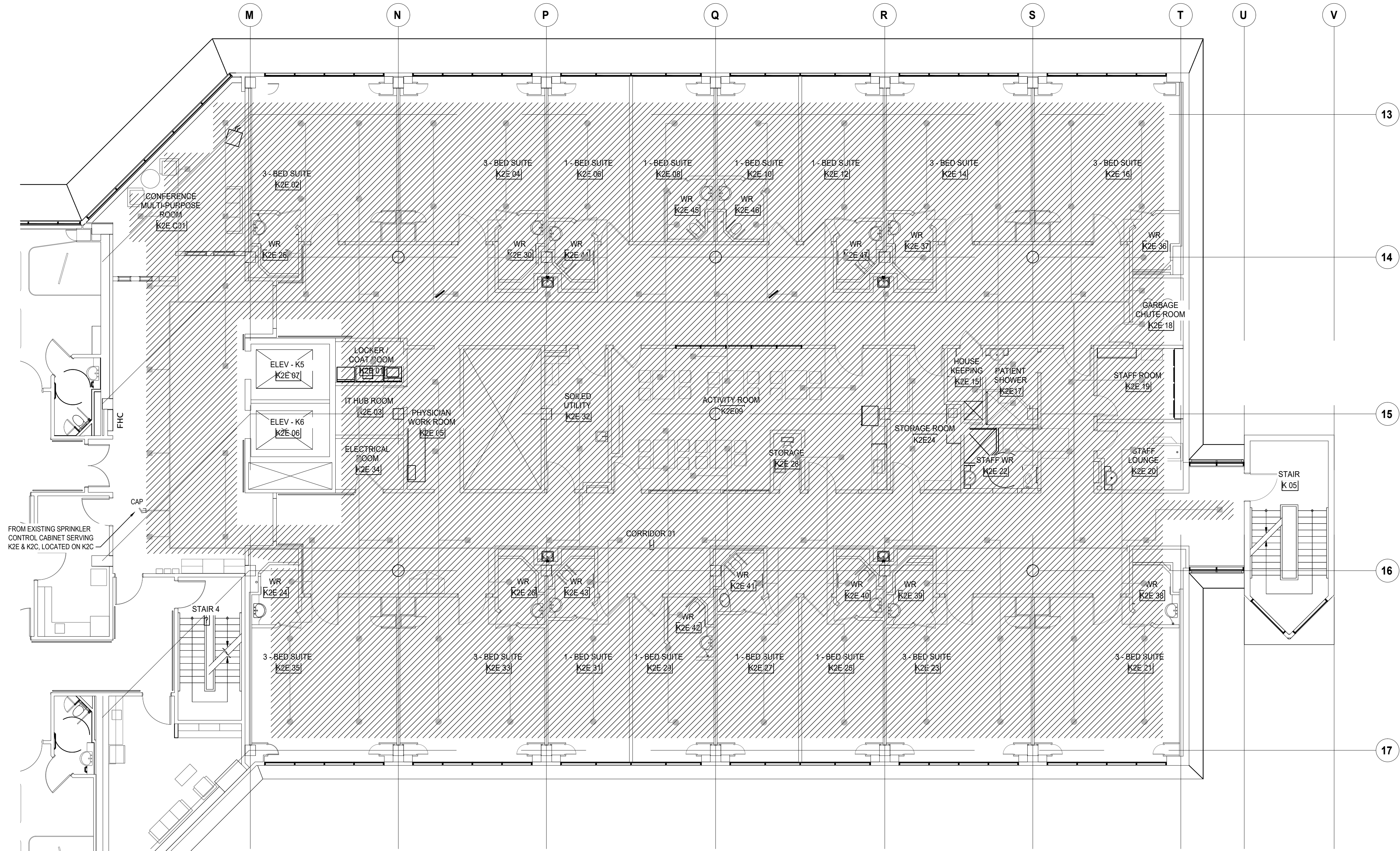
**Scale:** 1:100

**Project No.** HS1024-0383 (2240067)

Drawing No.

M-107





GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

DRAWING NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
2025-07-21	ISSUED FOR BUILDING PERMIT	3
2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7

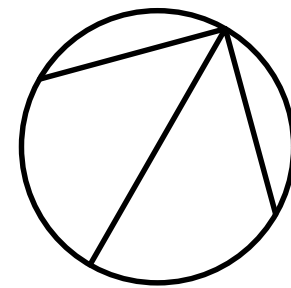
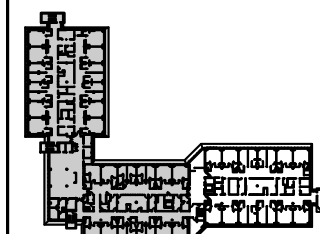


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Seal(s)



**NORR**

NORR Architects & Engineers Limited

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North Tower, 15th Floor  
Toronto, ON, Canada M4W 3R8  
norr.com

Project Manager

M. LIGHT

Drawn

Z. QIAO

Project Leader

M. LIGHT

Checked

M. LIGHT

OWNER



**Project**  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

Drawing Title

K WING, 2ND FLOOR, K-2-E, FLOOR PLAN  
FIRE PROTECTION DEMOLITION

PHASE - K-2-E RENOVATION

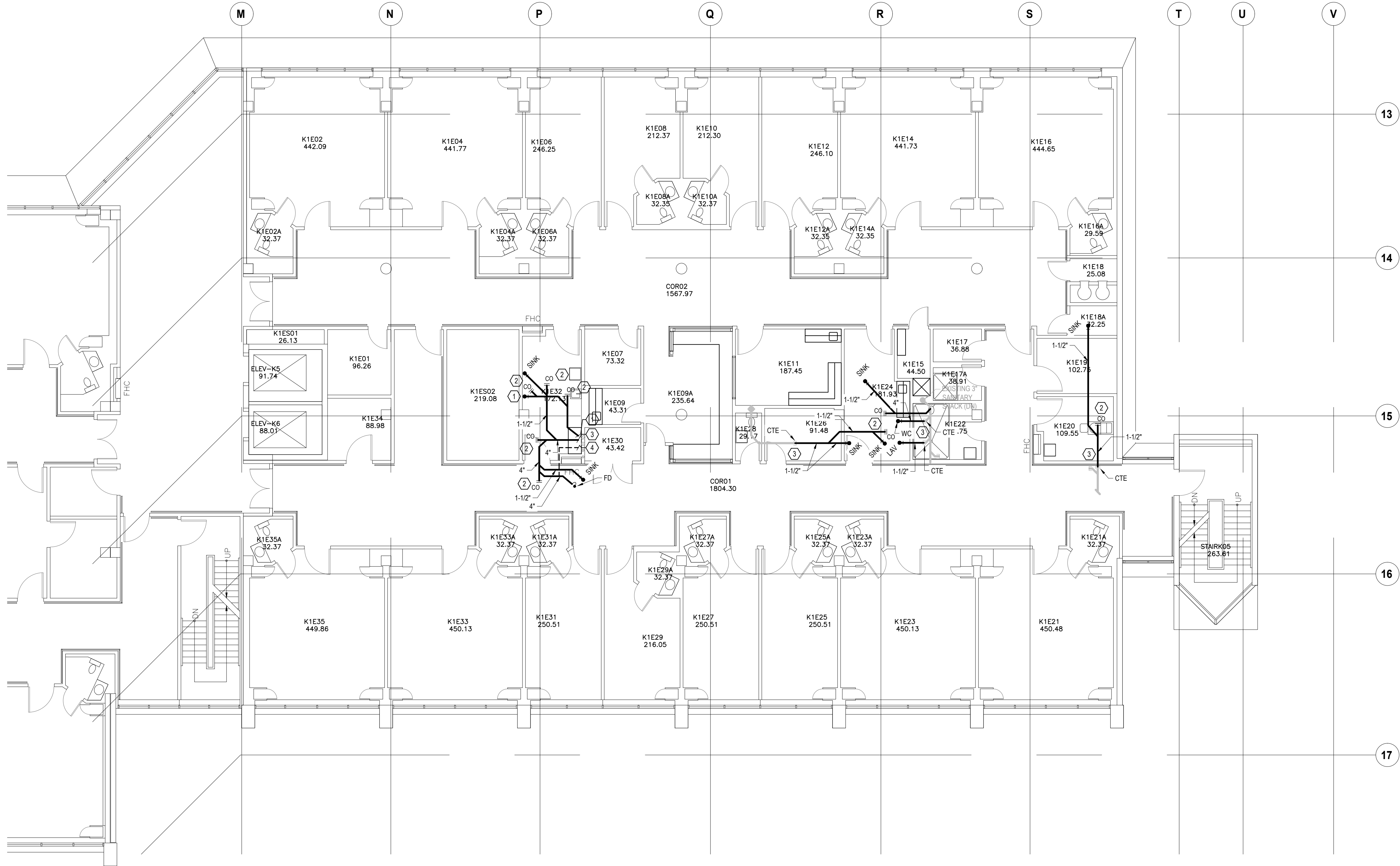
**Scale:** 1:100

**Project No.** HS1024-0383 (2240067)

Drawing No.

M-108





GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

DRAWING NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NEW 2" SANITARY DRAIN BACK TO STACK. PER MACERATOR (SBO) REQUIREMENTS, DRAINAGE MUST TIE INTO STACK DIRECTLY. DO NOT COMBINE WITH DRAINAGE FROM OTHER FIXTURES.
2. PROVIDE ONE ACCESS DOOR PER CLEANOUT.
3. CTE STACK OR CAPPED SANITARY DRAINAGE FROM DEMOLISHED FIXTURES PROVIDED SIZE AND SLOPE ARE SUFFICIENT. ALLOW FOR CONNECTION DIRECTLY INTO STACK IF REQUIRED.
4. CONTRACTOR TO SITE VERIFY IF THERE IS SUFFICIENT SPACE TO RUN NEW VENT PIPING IN THE CEILING. IF THERE IS INSUFFICIENT SPACE, CONTRACTOR SHALL ALLOW FOR CORE AND ADDITIONAL PIPING TO CONNECT VENT PIPING ON FLOOR ABOVE.

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
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2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
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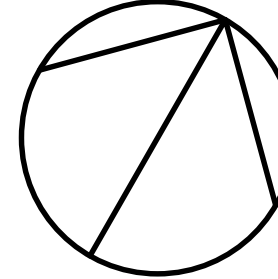
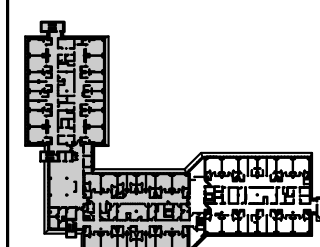


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Seal(s)



**NORR**

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norr.com

Project Manager  
M. LIGHT

Drawn  
Z. QIAO

Project Leader  
M. LIGHT

Checked  
M. LIGHT

OWNER



Project  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

Drawing Title

K WING, 1ST FLOOR, K-1-E, FLOOR PLAN  
PLUMBING NEW WORK

PHASE - K-2-E RENOVATION

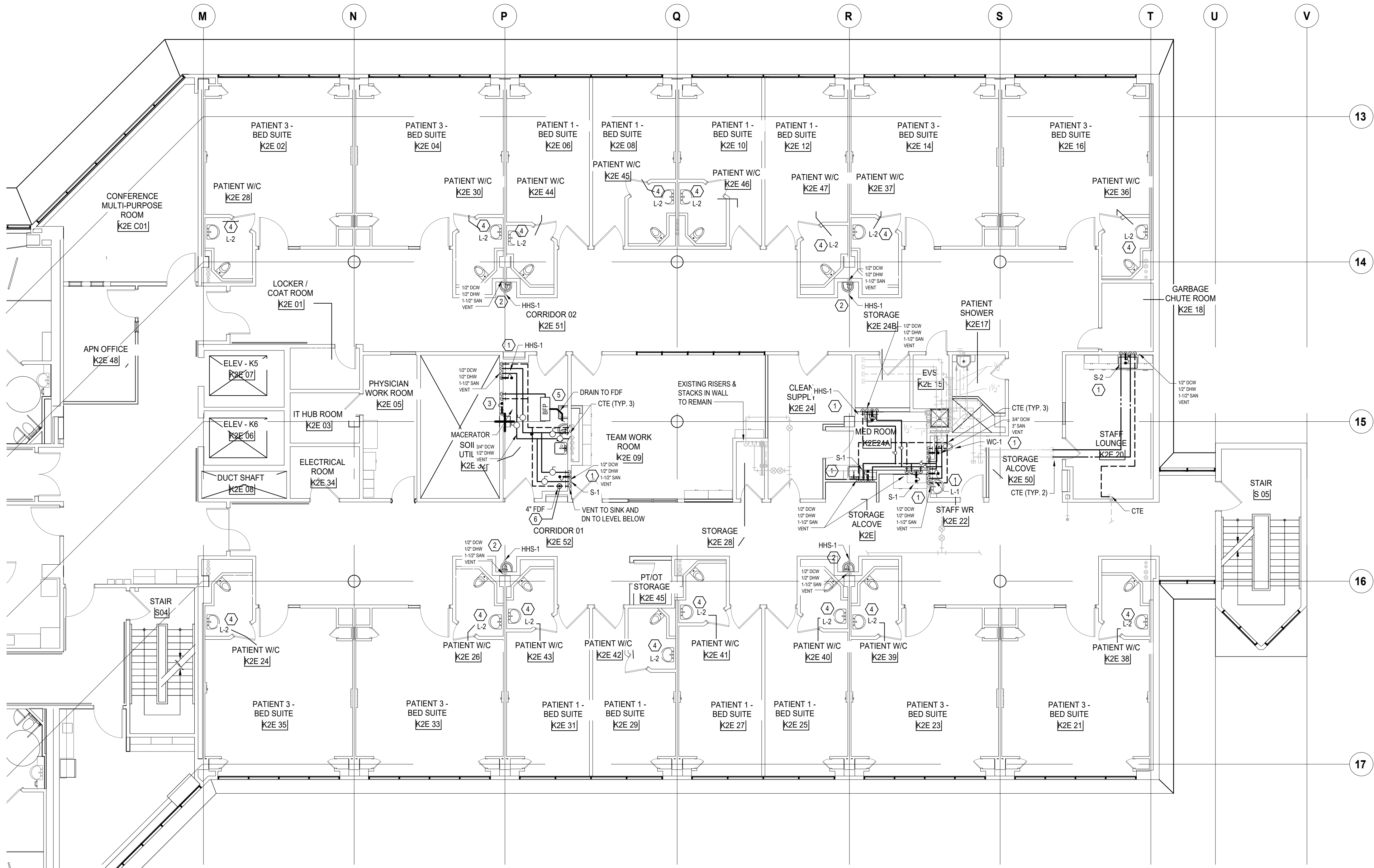
Scale: 1:100

Project No. HS1024-0383 (2240067)

Drawing No.

M-121






GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

- DRAWING NOTES**  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)
1. PROVIDE NEW PLUMBING FIXTURE COMPLETE WITH ALL ASSOCIATED DCW, DHW, SANITARY DRAINAGE, AND VENT PIPING. CONNECT TO EXISTING MAINS NEARBY. PROVIDE DOMESTIC WATER PIPING WITH DEDICATED ISOLATION VALVES PER FIXTURE.
  2. CONNECT TO EXISTING DCW, DHW, VENT, AND SANITARY PIPING FROM DEMOLISHED SINK.
  3. PROVIDE PLUMBING VENT, 2" SANITARY DRAIN, AND 3/4" DCW TO MACERATOR (SBO). PROVIDE DEDICATED ISOLATION VALVE FOR DCW LINE. REFER TO MANUFACTURER'S INFORMATION FOR ADDITIONAL INSTALLATION REQUIREMENTS.
  4. PROVIDE NEW FAUCET ON EXISTING LAVATORY BASIN.
  5. PROVIDE RPZ-STYLE BACKFLOW PREVENTER ASSEMBLY DRAINED TO NEW FUNNEL FLOOR DRAIN.
  6. PROVIDE ELECTRONIC TRAP SEAL PRIMER, FED FROM NEARBY DCW, TO SERVE NEW FLOOR DRAIN. ALLOW FOR ONE (1) PER FLOOR DRAIN.

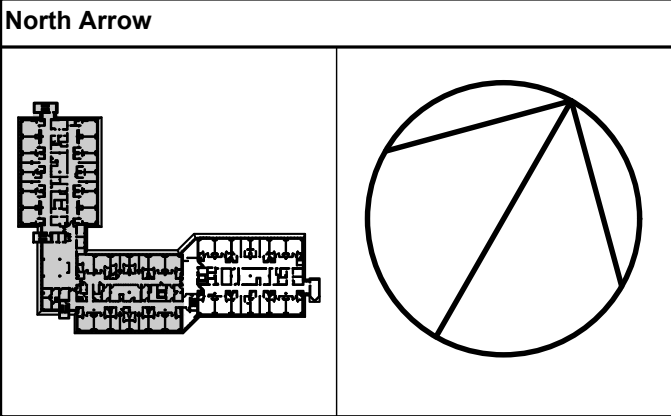
DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
2025-07-21	ISSUED FOR BUILDING PERMIT	3
2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7




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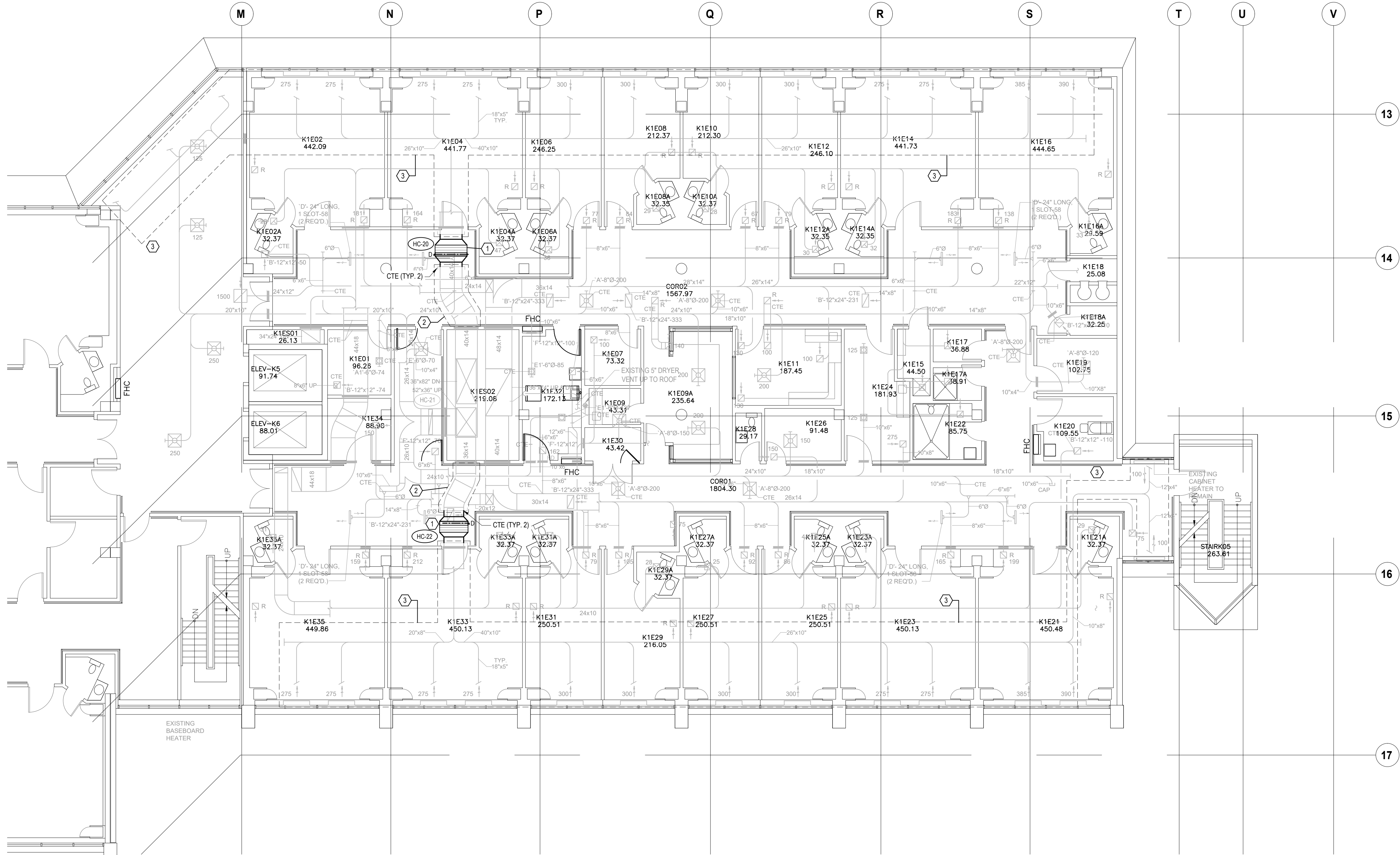


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North Tower, 15th Floor  
Toronto, ON, Canada M4W 3R8  
norr.com

Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT
<b>OWNER</b> 	
<b>Project</b> PHASE1: SHSC GIM Decant (K2E) PHASE2: SHSC Renovation of C2 Decant (K3E)	
TORONTO, ON, CANADA	
<b>Drawing Title</b> K WING, 2ND FLOOR, K-2-E, FLOOR PLAN PLUMBING NEW WORK  PHASE - K-2-E RENOVATION	
<b>Scale:</b> 1:100	
<b>Project No.</b> HS1024-0383 (2240067)	
<b>Drawing No.</b> M-122	





GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

DRAWING NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. CONNECT TO EXISTING DUCT UPSTREAM OF FIRE DAMPER. ALLOW FOR NEW FIRE DAMPER ACCESS DOOR IN CASE EXISTING WAS REMOVED DURING DEMOLITION.

2. CONTRACTOR SHALL CLEAN ALL EXISTING DUCTWORK UPSTREAM OF THE REHEAT COIL BACK TO THE SHAFT.

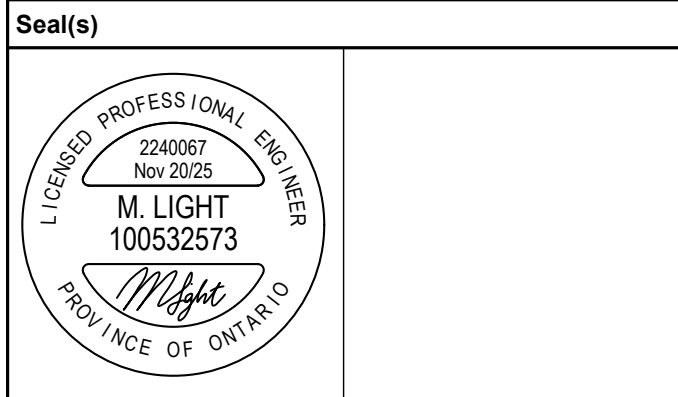
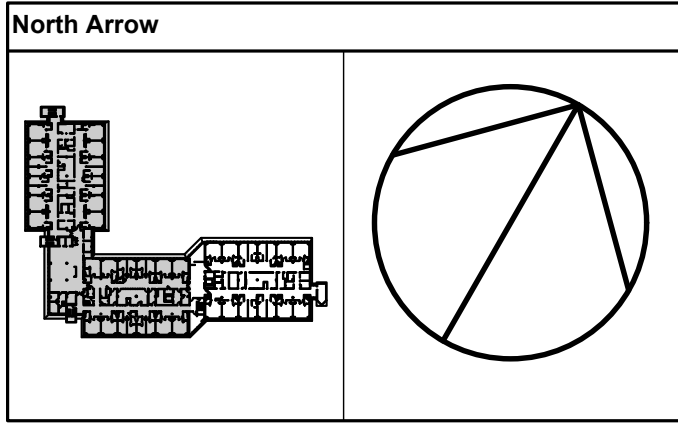
3. CONTRACTOR SHALL CLEAN ALL EXISTING DUCTWORK DOWNSTREAM OF NEW REHEAT COILS INCLUDING DUCTS UP TO FLOOR ABOVE.

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
2025-07-21	ISSUED FOR BUILDING PERMIT	3
2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7



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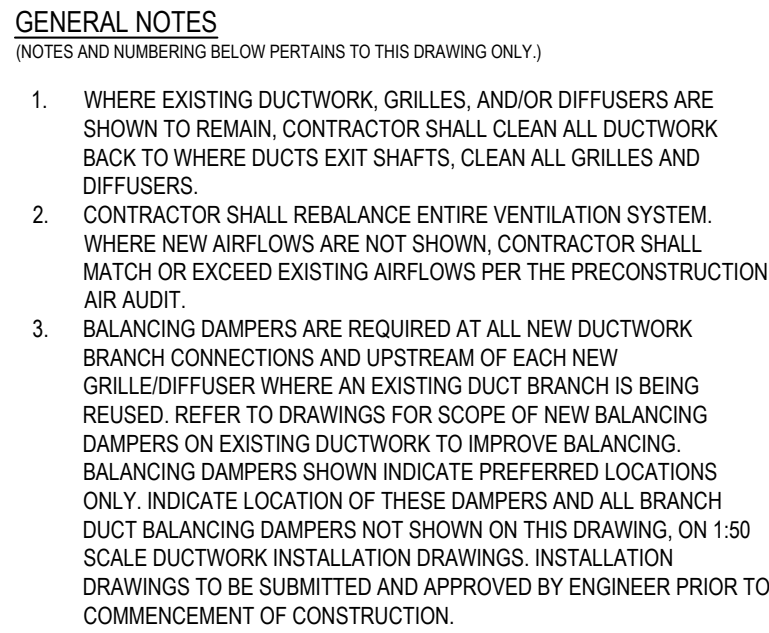
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Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT
OWNER 	
Project PHASE1: SHSC GIM Decant (K2E) PHASE2: SHSC Renovation of C2 Decant (K3E)	
TORONTO, ON, CANADA	
Drawing Title K WING, 1ST FLOOR, K-1-E, FLOOR PLAN VENTILATION NEW WORK PHASE - K-2-E RENOVATION	
Scale: 1:100	
Project No. HS1024-0383 (2240067)	
Drawing No. M-123	





### DRAWING NOTES

(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

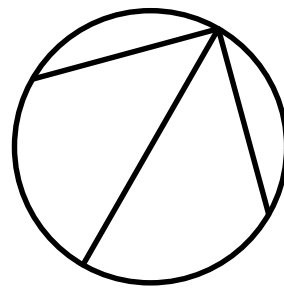
1. EXISTING DRYER VENT UPON TO REMAIN.
2. CONNECT TO EXISTING CAPPED DUCT.
3. REBALANCE EXISTING GRILLE OR DIFFUSER TO THE NEW AIRFLOW / LOAD.
4. ALLOW FOR FOUR (4) OFFSETS TO MAKE CONNECTION TO EXISTING DUCTWORK IN EXPOSED CEILING SPACE. CONTRACTOR TO INSTALL DUCT WITH THE MINIMUM POSSIBLE NUMBER OF OFFSETS.
5. ALLOW FOR NEW DUCTWORK, GRILLES, AND DIFFUSERS IN THIS ROOM. TO MATCH EXISTING SIZES. NEW AIR TERMINALS TO BE PROVIDED PER THE GRILLES & DIFFUSERS SCHEDULE.
6. REUSE SUPPLY AIR GRILLES UNDER WINDOW TO THE NEW AIRFLOW / LOAD. EXISTING SUPPLY AIRWAYS (VOID SPACES) BELOW WINDOW WHERE AS IN CENTERED FROM BELOW. CLEAN EXISTING SUPPLY AIR GRILLE(S).

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
2025-07-21	ISSUED FOR BUILDING PERMIT	3
2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7



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2240067  
Nov 20/25  
M. LIGHT  
100532573  
PROVINCE OF ONTARIO

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Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT



**Sunnybrook**  
HEALTH SCIENCES CENTRE

**Project**  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

**Drawing Title**  
K WING, 2ND FLOOR, K-2-E, FLOOR PLAN  
VENTILATION NEW WORK

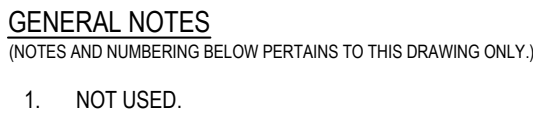
## PHASE - K-2-E RENOVATION

**Scale:** 1:100

Project No. HS1024-0383 (2240067)

Drawing No. M-124





**DRAWING NOTES**  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. PROVIDE NEW HEATING WATER SUPPLY AND RETURN ISOLATION VALVES.
2. CONNECT TO EXISTING HEATING WATER PIPING.
3. PROVIDE NEW THERMOSTATS ABOVE IN ROOM K2E04 & ROOM K2E12
4. PROVIDE NEW THERMOSTATS ABOVE IN ROOM K2E33 & ROOM K2E25

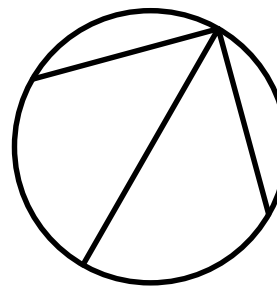
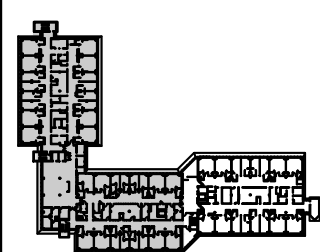
DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
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2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7



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## Seal(s



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Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT

OWNER



**Project**  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

**Drawing Title**  
K WING, 1ST FLOOR, K-1-E, FLOOR PLAN  
HVAC PIPING NEW WORK

PHASE - K-2-E RENOVATION

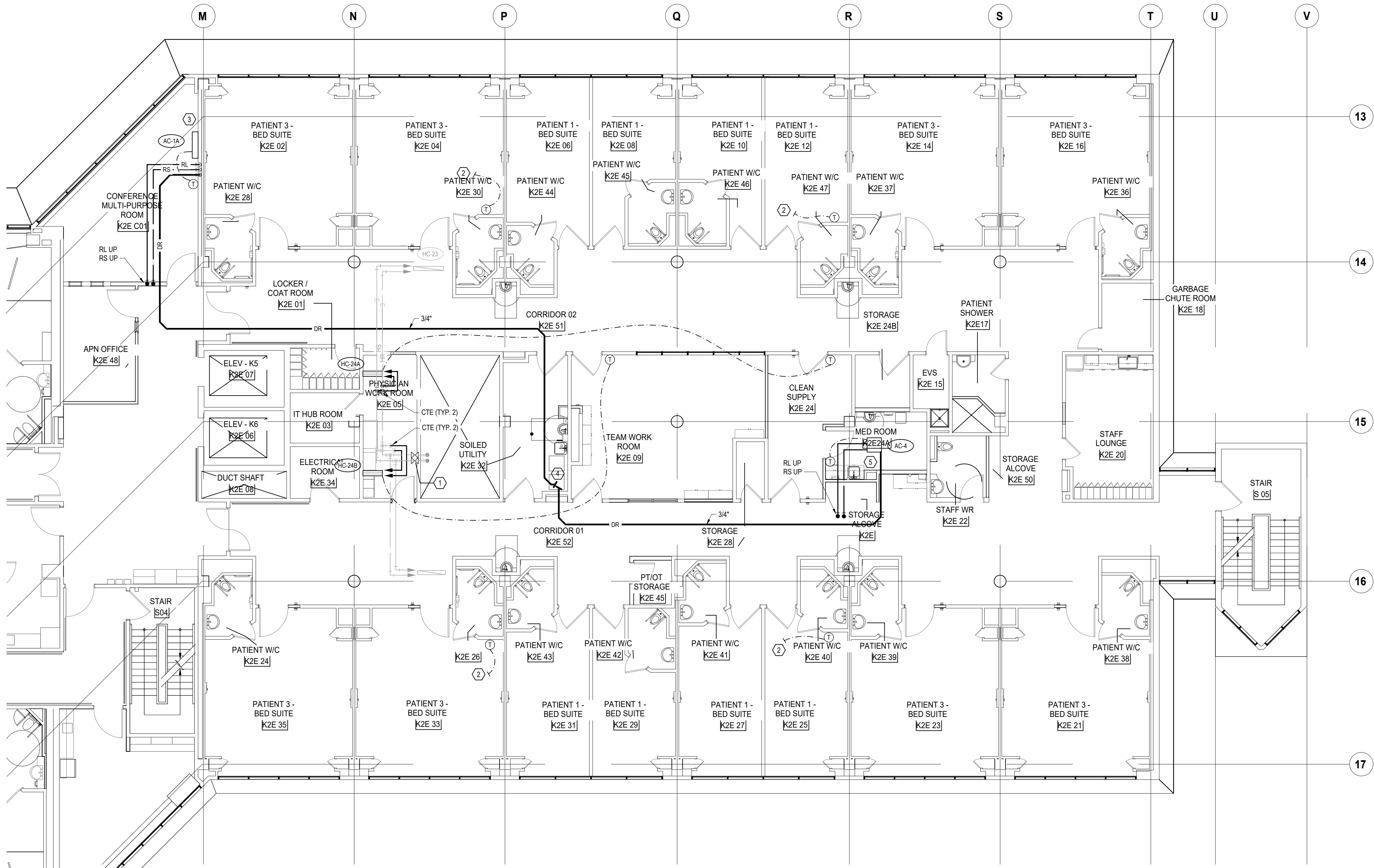
**Scale:** 1:100

**Project No.** HS1024-0383 (2240067)

Drawing No

M-125





GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

- DRAWING NOTES**  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)
1. PROVIDE NEW HEATING WATER SUPPLY AND RETURN ISOLATION VALVES.
  2. PROVIDE NEW THERMOSTAT SERVING REHEAT COIL LOCATED BELOW ON K1E.
  3. PROVIDE NEW WALL MOUNTED AC UNIT IN NEW CONFERENCE ROOM. ROUTE PIPING THROUGH WALLS UP TO CONDENSING UNIT TO BE INSTALLED ON ROOF ABOVE LEVEL 3. AC-1A AND CU-1 TO BE INSTALLED DURING PHASE K2E.
  4. CONDENSATE DRAINAGE TO TERMINATE ABOVE 4" FDF IN K2E 32 SOILED UTILITY ROOM (TYP. 2).
  5. PROVIDE NEW CEILING CASSETTE AC UNIT IN MED ROOM. ROUTE PIPING THROUGH WALLS UP TO CONDENSING UNIT CU-4.

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
2025-07-21	ISSUED FOR BUILDING PERMIT	3
2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7

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**Seal(s)**

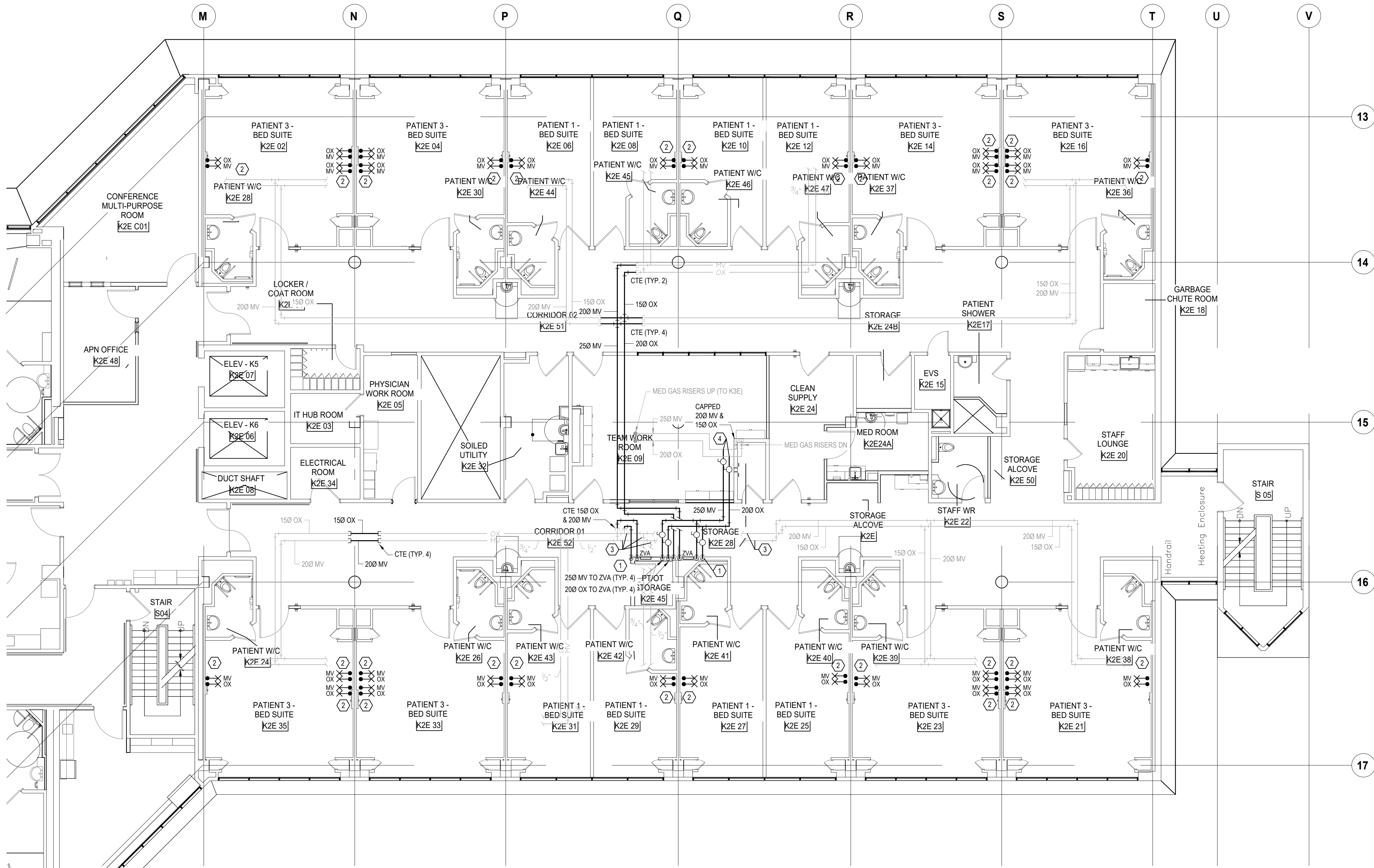
**NORR**

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North Tower, 15th Floor  
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norr.com

Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT
<b>OWNER</b> 	
<b>Project</b> PHASE1: SHSC GIM Decant (K2E) PHASE2: SHSC Renovation of C2 Decant (K3E)	
TORONTO, ON, CANADA	
<b>Drawing Title</b> K WING, 2ND FLOOR, K-2-E, FLOOR PLAN HVAC PIPING NEW WORK  PHASE - K-2-E RENOVATION	
<b>Scale:</b> 1:100	
<b>Project No.</b> HS1024-0383 (2240067)	
<b>Drawing No.</b> M-126	





GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

- DRAWING NOTES**  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)
1. STAGGER PIPING TO ZONE VALVE BOXES WITHIN WALL IF REQUIRED. CONTRACTOR SHALL ALLOW FOR MINIMUM FOUR (4) EXTRA ELBOWS PER ZONE VALVE BOX. VALVES SHALL BE 200 OX & 250 MV. LABEL ZONE VALVES "NORTH PATIENT BEDS" AND "SOUTH PATIENT BEDS".
  2. PROVIDE NEW MEDICAL GAS OUTLETS. NEW HEADWALL PROVIDED BY OTHER DIVISIONS. CONNECT TO EXISTING PIPING IN CEILING. PROVIDE ONE OXYGEN AND ONE MEDICAL VACUUM OUTLET PER BED. NEW HEADWALL LOCATION MAY NOT MATCH EXISTING. ALLOW FOR REWORKING PIPE TO SUIT NEW LOCATION.
  3. ALLOW FOR REWORKING THESE 150 OXYGEN AND 200 MEDICAL VACUUM BRANCHES IN THE CORRIDOR TO PERMIT INSTALLATION OF NEW PIPING AS SHOWN.
  4. CONNECT TO EXISTING 200 OXYGEN AND 250 MEDICAL VACUUM PIPING IN THE CEILING. COORDINATE AFTER HOURS SHUTDOWN WITH HOSPITAL. DO NOT REUSE EXISTING UNDERSIZED CAPPED CONNECTIONS.

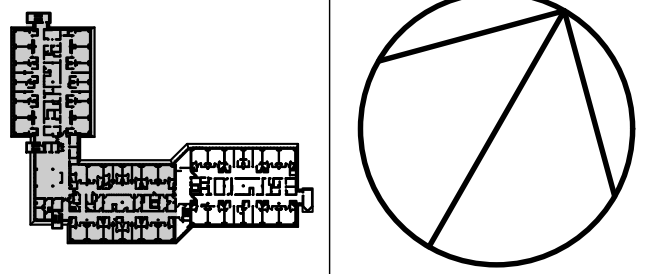
DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
2025-07-21	ISSUED FOR BUILDING PERMIT	3
2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7



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Seal(s)



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Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT

OWNER



**Project**  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

**Drawing Title**  
K WING, 2ND FLOOR, K-2-E, FLOOR PLAN  
MEDICAL GAS NEW WORK

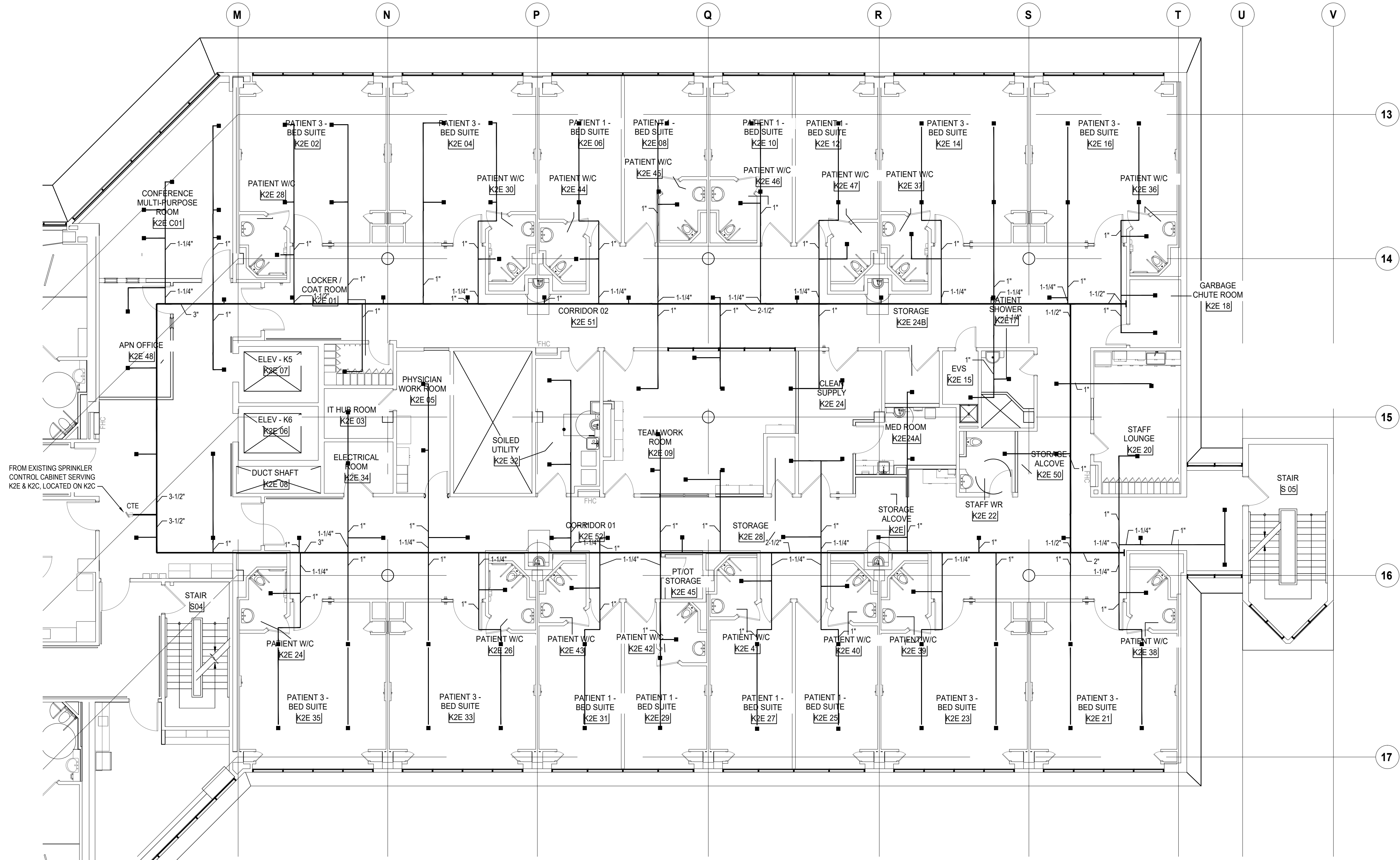
PHASE - K-2-E RENOVATION

**Scale:** 1:100

**Project No.** HS1024-0383 (2240067)


**Drawing No.**  
M-127





- GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)
1. NOT USED.
- DRAWING NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)
1. NOT USED.

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
2025-07-21	ISSUED FOR BUILDING PERMIT	3
2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7

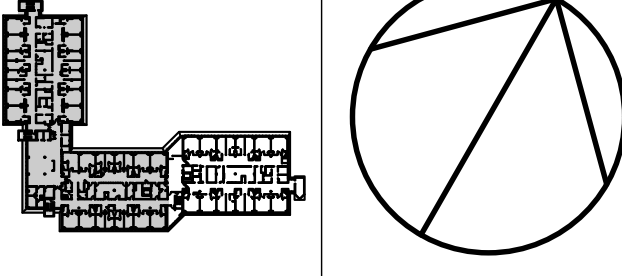


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North Arrow



Seal(s)



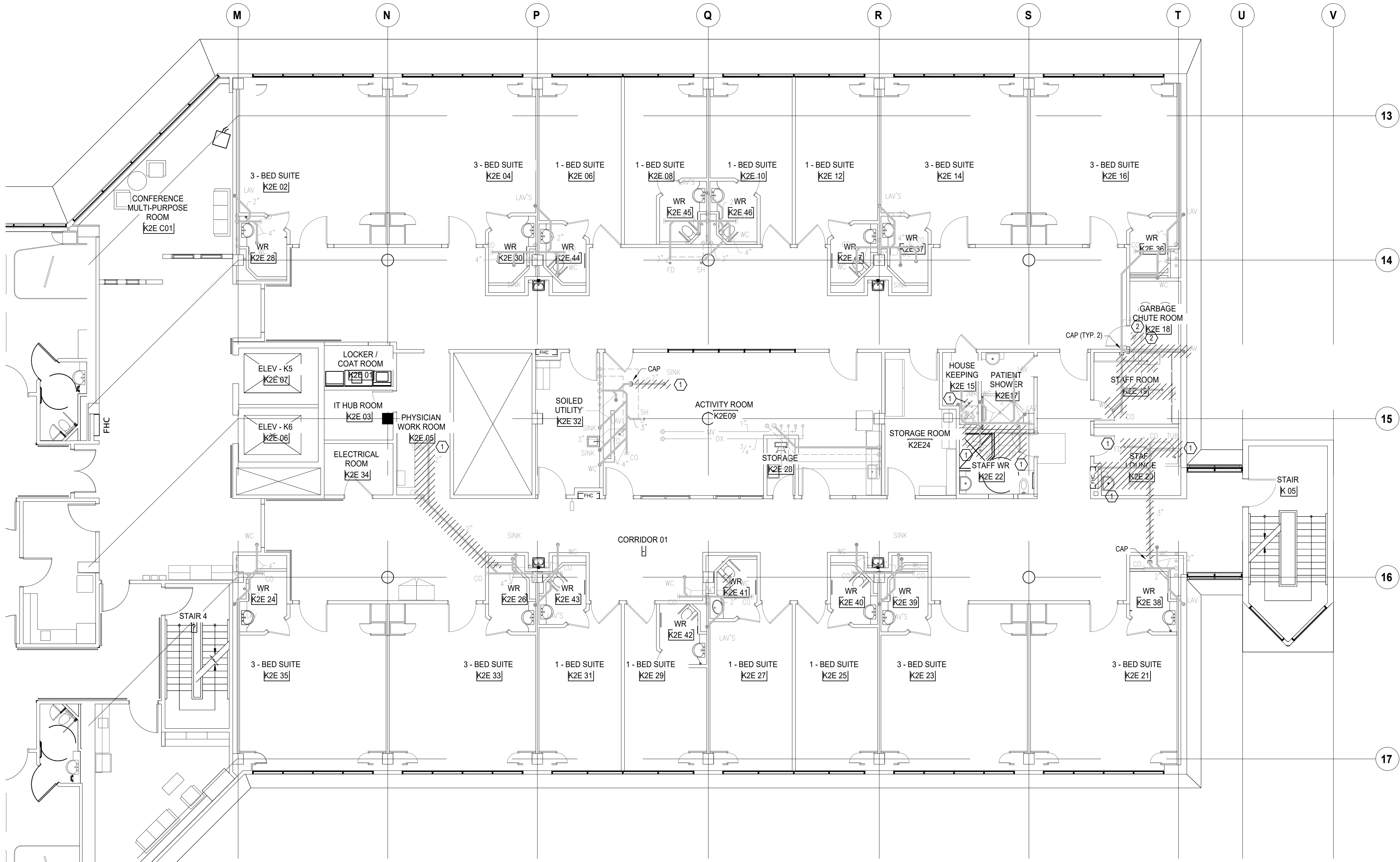


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Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT
OWNER 	
Project PHASE1: SHSC GIM Decant (K2E) PHASE2: SHSC Renovation of C2 Decant (K3E)	
TORONTO, ON, CANADA	
Drawing Title K WING, 2ND FLOOR, K-2-E, FLOOR PLAN FIRE PROTECTION NEW WORK  PHASE - K-2-E RENOVATION	
Scale: 1:100	
Project No. HS1024-0383 (2240067)	
Drawing No. M-128	





GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

DRAWING NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. DEMOLISH SANITARY DRAIN SERVING FIXTURE ABOVE.  
2. DEMOLISH EXISTING PLUMBING VENTS HERE AND ON LEVEL ABOVE.  
CAP AT BRANCH ABOVE.

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
2025-07-21	ISSUED FOR BUILDING PERMIT	3
2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7

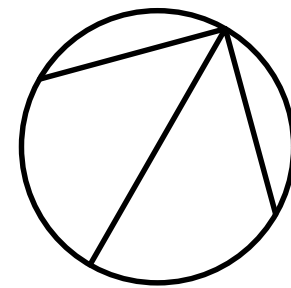
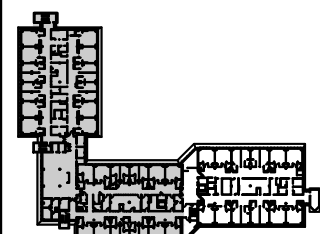


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Seal(s)



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norr.com

Project Manager

M. LIGHT

Drawn

Z. QIAO

Project Leader

M. LIGHT

Checked

M. LIGHT

OWNER



Project  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

Drawing Title

K WING, 2ND FLOOR, K-2-E, FLOOR PLAN  
PLUMBING DEMOLITION

PHASE - K-3-E RENOVATION

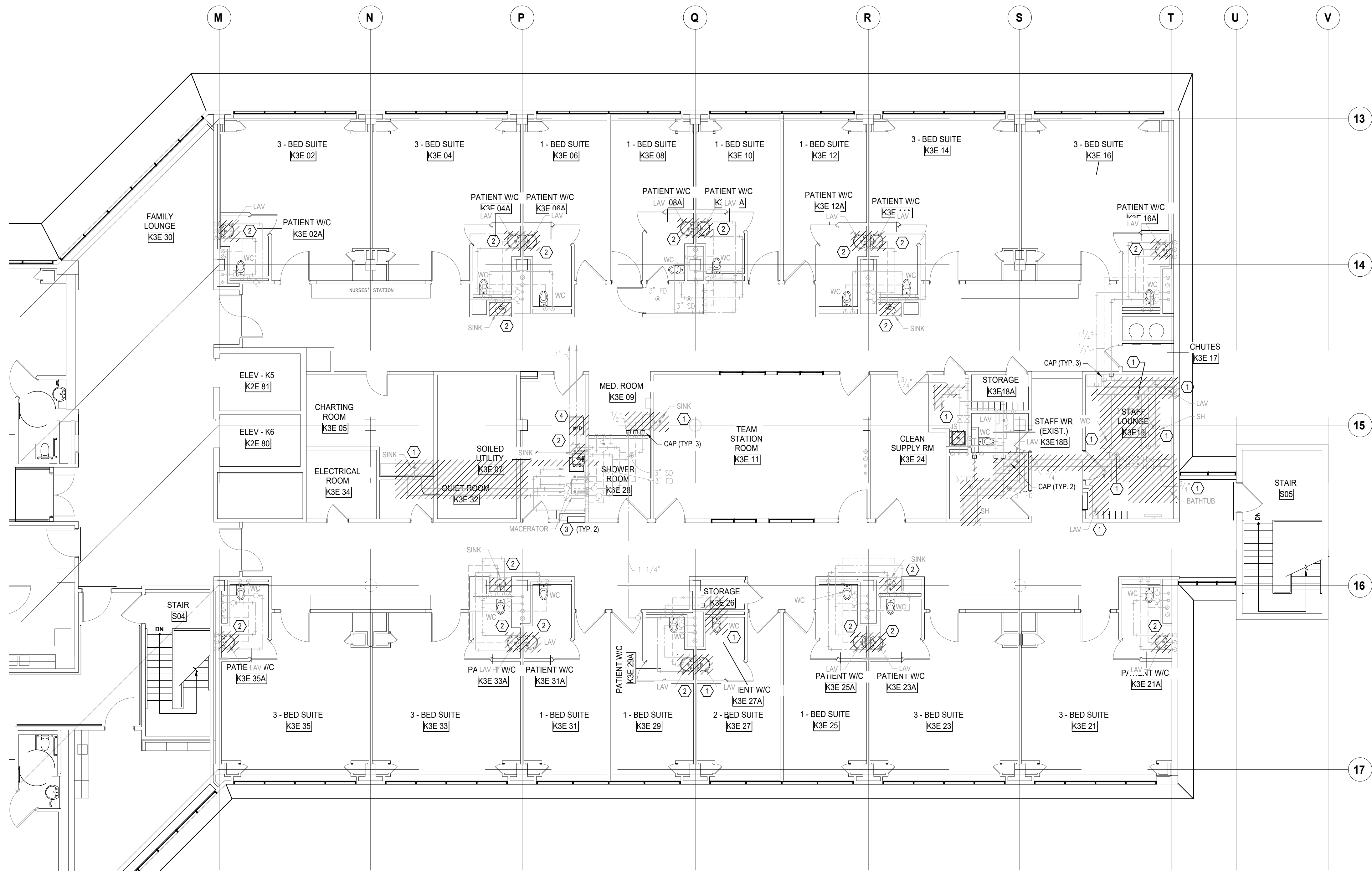
Scale: 1:100

Project No. HS1024-0383 (2240067)

Drawing No.

M-201





(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

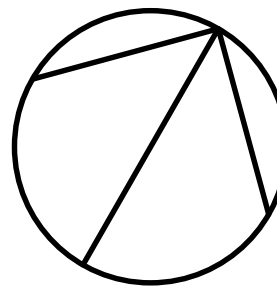
1. DEMOLISH PLUMBING FIXTURE COMPLETE WITH ALL ASSOCIATED DOMESTIC COLD WATER, DOMESTIC HOT WATER, SANITARY DRAINAGE, AND VENT PIPING BACK TO ASSOCIATED MAINS AND CAP.
2. DEMOLISH SINK AND PREPARE FOR CONNECTION OF NEW SINK IN SAME LOCATION. ALLOW FOR REWORKING OF EXISTING DOMESTIC COLD WATER, DOMESTIC HOT WATER, VENT, AND SANITARY PIPING TO SUIT NEW SINK CONNECTIONS. REFER TO NEW WORK.
3. EXISTING MACERATOR TO REMAIN.
4. DEMOLISH EXISTING WASHING MACHINE COMPLETE WITH ALL ASSOCIATED DOMESTIC COLD WATER, DOMESTIC HOT WATER, SANITARY DRAINAGE, AND VENT PIPING BACK TO ASSOCIATED MAINS AND CAP.

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
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norr.com

Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT

OWNER



**Project**  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

**Drawing Title**  
K WING, 3RD FLOOR, K-3-E, FLOOR PLAN  
PLUMBING DEMOLITION

PHASE - K-3-E RENOVATION

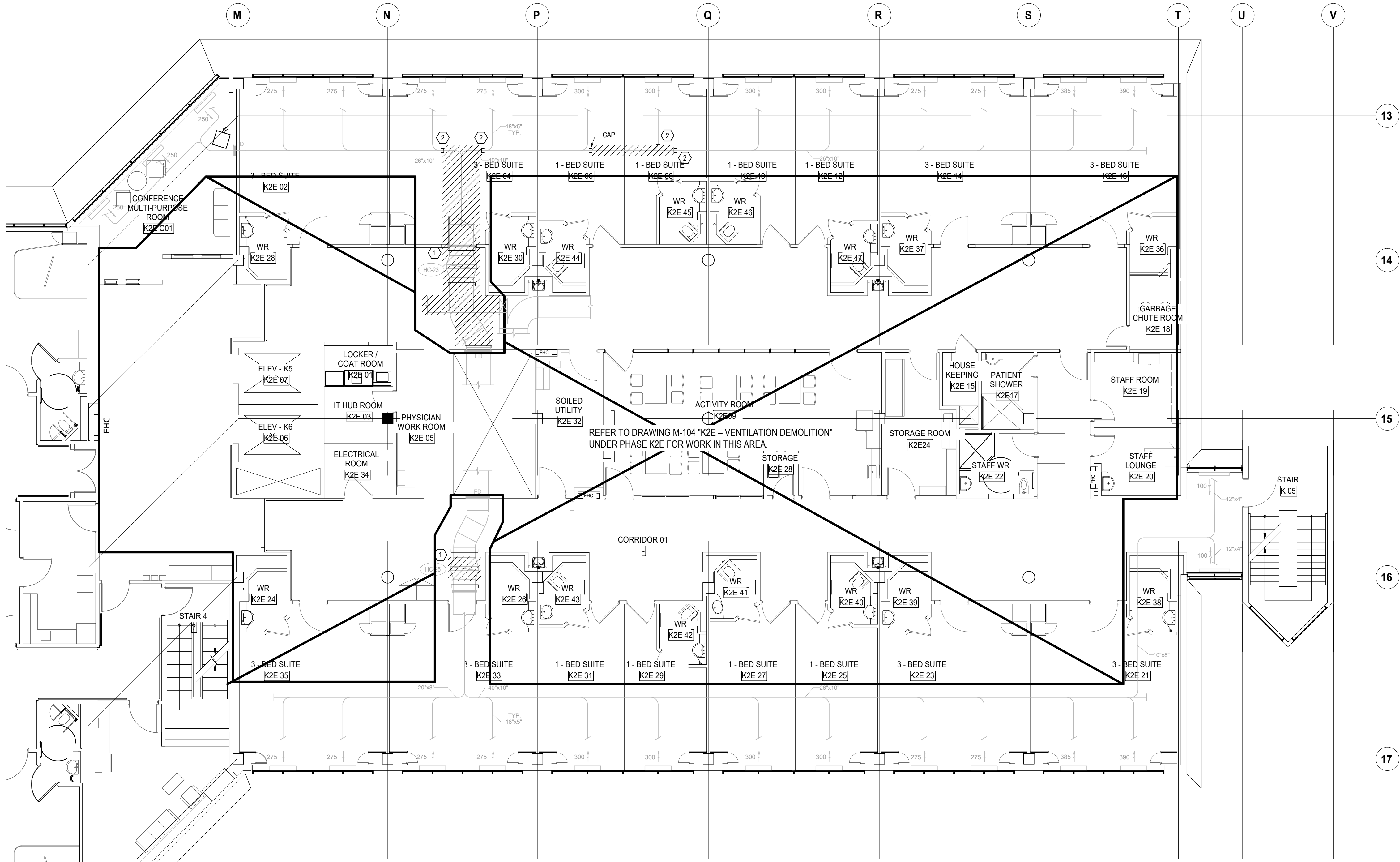
**Scale:** 1:100

Project No.	HS1024-0383	(2240067
-------------	-------------	----------

Drawing No

M-202





GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

DRAWING NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. DEMOLISH EXISTING REHEAT COIL AND ASSOCIATED DUCTWORK AS SHOWN TO PERMIT NEW WORK. CAP TEMPORARILY WHERE INDICATED.

2. CAP TEMPORARILY UNTIL NEW WORK COMMENCES.

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
2025-07-21	ISSUED FOR BUILDING PERMIT	3
2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7

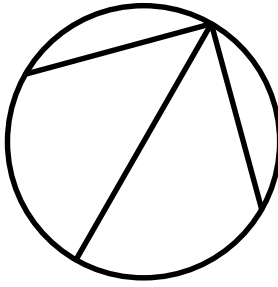


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North Arrow




Seal(s)



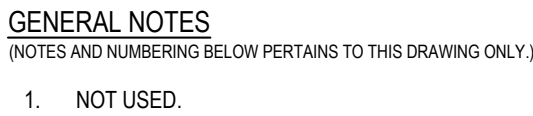


NORR Architects & Engineers Limited

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norr.com

Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT
OWNER 	
Project PHASE1: SHSC GIM Decant (K2E) PHASE2: SHSC Renovation of C2 Decant (K3E)	
TORONTO, ON, CANADA	
Drawing Title K WING, 2ND FLOOR, K-2-E, FLOOR PLAN VENTILATION DEMOLITION PHASE - K-3-E RENOVATION	
Scale: 1:100	
Project No. HS1024-0383 (2240067)	
Drawing No. M-203	





- DRAWING NOTES**  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

  1. EXISTING DRYER VENT UP/DOWN TO REMAIN. DEMOLISH AND CAP TAKEOFFS ON THIS FLOOR. ASSUME WORK IS TO OCCUR AFTER HOURS (BASED ON K1E PALLIATIVE CARE HOURS) TO MINIMIZE IMPACT TO K1E.
  2. CAP TEMPORARILY UNTIL NEW WORK COMMENCES.
  3. DEMOLISH EXISTING GRILLE OR DIFFUSER. REFER TO NEW WORK.
  4. DEMOLISH EXISTING GRILLE BACK TO DUCT AND PERMANENTLY CAP.
  5. REMOVE EXISTING SANITARY DUCT THROUGH STAFF LOUNGE & STORAGE TO PERMIT NEW WORK.
  6. REMOVE TRANSFER GRILLE IN EXISTING CEILING TRANSFER GRILLE TO BE RELOCATED. REFER TO NEW WORK.

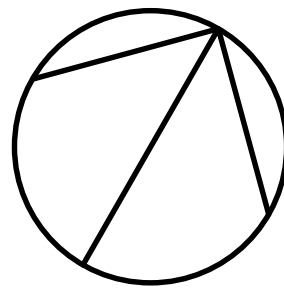
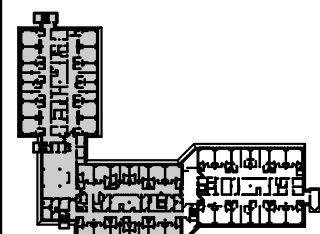
DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
2025-07-21	ISSUED FOR BUILDING PERMIT	3
2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7



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## North Arrow



## Seal(s)



# NORR

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Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT

OWNER



**Project**  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

**Drawing Title**  
K WING, 3RD FLOOR, K-3-E, FLOOR PLAN  
VENTILATION DEMOLITION

PHASE - K-3-E RENOVATION

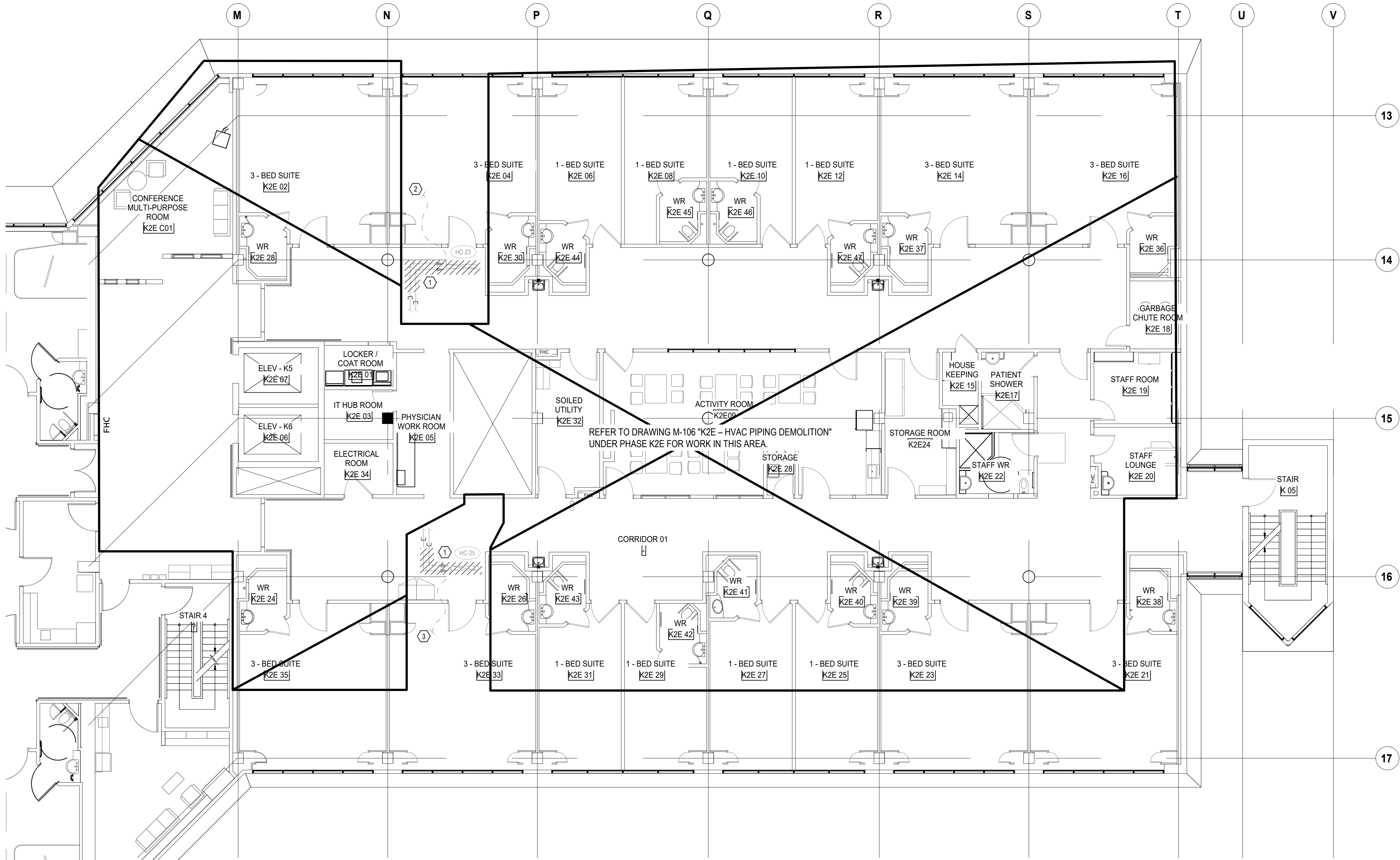
**Scale:** 1:100

**Project No.** HS1024-0383 (2240067)

Drawing No

M-204





GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

DRAWING NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. DEMOLISH HEATING WATER PIPING TO REHEAT COIL BEING DEMOLISHED. CAP TEMPORARILY.
2. DEMOLISH EXISTING WIRING TO THERMOSTATS. THERMOSTATS ARE LOCATED ON THE LEVEL ABOVE IN ROOM K3E04 & ROOM K3E12.
3. DEMOLISH EXISTING WIRING TO THERMOSTATS. THERMOSTATS ARE LOCATED ON THE LEVEL ABOVE IN ROOM K3E33 & ROOM K3E25.

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
2025-07-21	ISSUED FOR BUILDING PERMIT	3
2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7

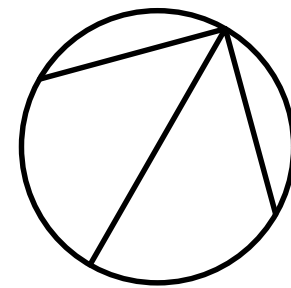
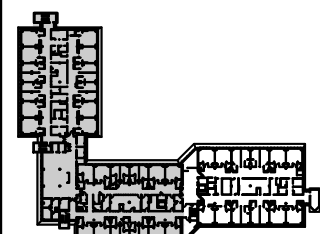


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North Arrow



Seal(s)



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Project Manager  
M. LIGHT

Drawn  
Z. QIAO

Project Leader  
M. LIGHT

Checked  
M. LIGHT

OWNER



Project  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

Drawing Title

K WING, 2ND FLOOR, K-2-E, FLOOR PLAN  
HVAC PIPING DEMOLITION

PHASE - K-3-E RENOVATION

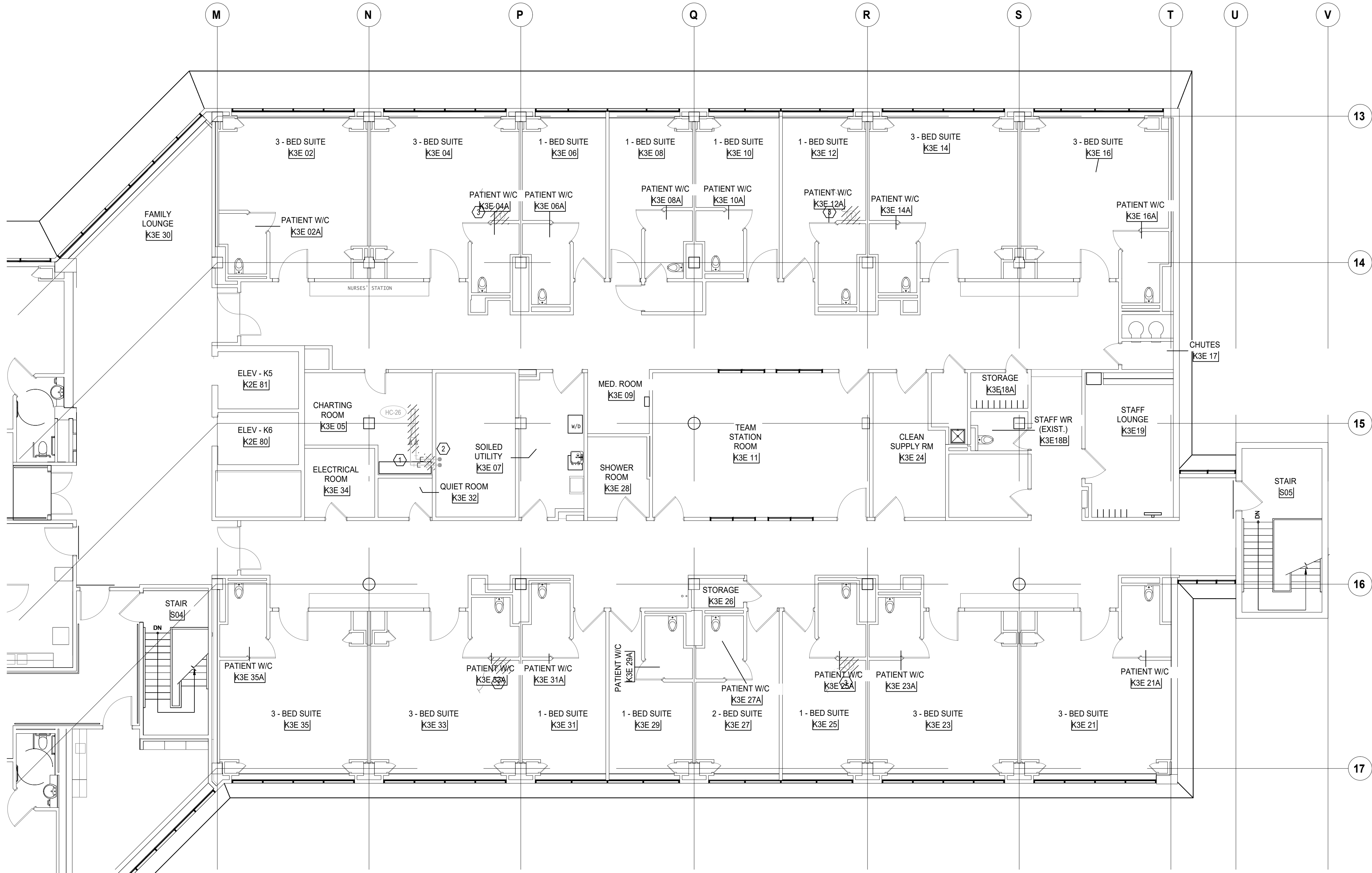
Scale: 1:100

Project No. HS1024-0383 (2240067)

Drawing No.

M-205





GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

- DRAWING NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)
- DEMOLISH HEATING WATER PIPING TO REHEAT COIL BEING DEMOLISHED AND CAP.
  - DEMOLISH MAIN HEATING WATER SUPPLY AND RETURN ISOLATION VALVES. REFER TO NEW WORK FOR MORE INFORMATION.
  - DEMOLISH EXISTING THERMOSAT SERVING REHEAT COIL LOCATED BELOW ON K2E.

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
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2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7

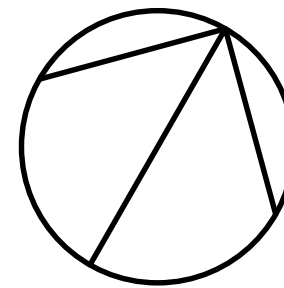
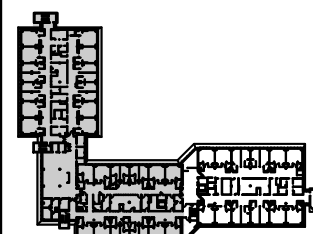


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Seal(s)



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Project Manager  
M. LIGHT

Drawn  
Z. QIAO

Project Leader  
M. LIGHT

Checked  
M. LIGHT

OWNER



Project  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

Drawing Title  
K WING, 3RD FLOOR, K-3-E, FLOOR PLAN  
HVAC PIPING DEMOLITION

PHASE - K-3-E RENOVATION

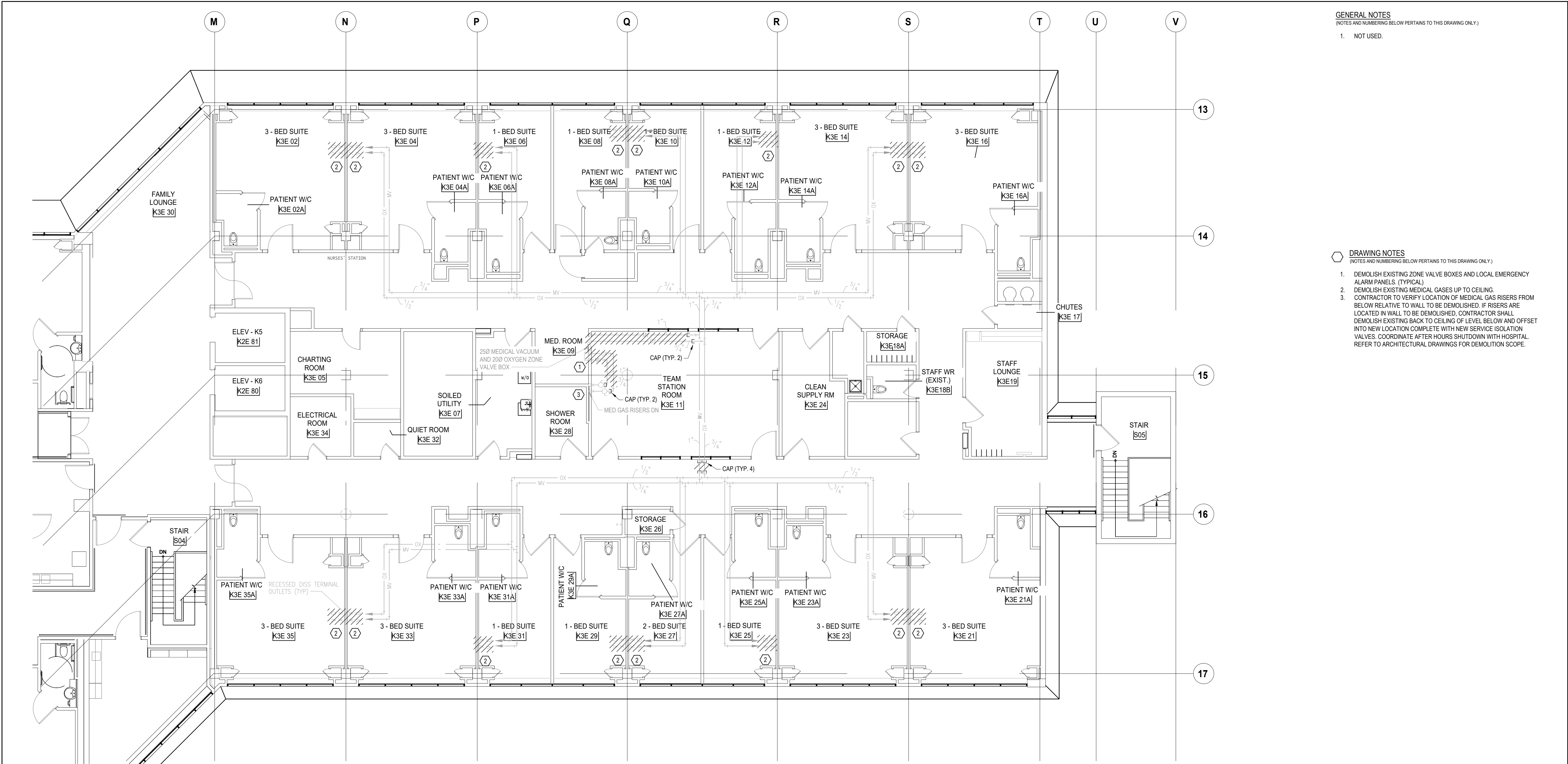
Scale: 1:100

Project No. HS1024-0383 (2240067)

Drawing No.

M-206





GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

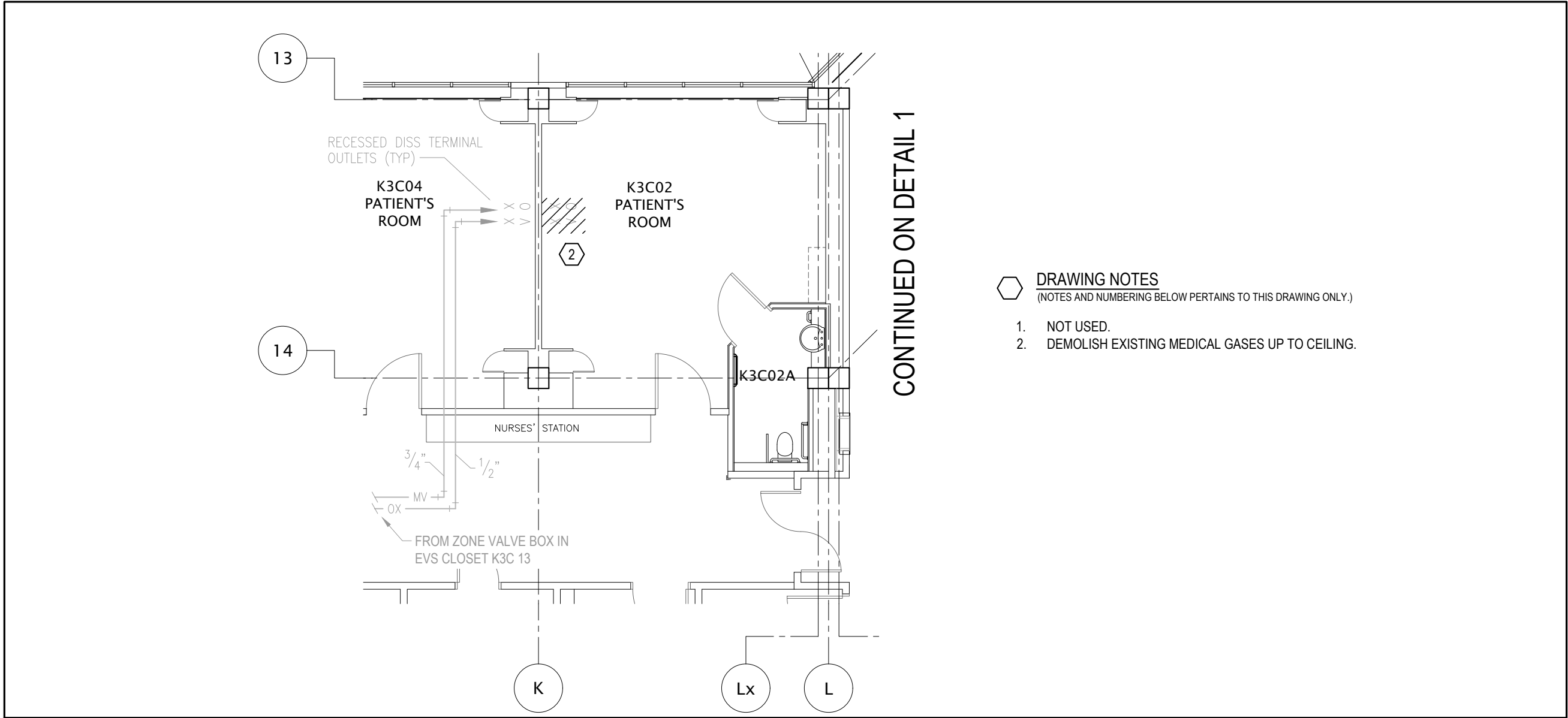
DRAWING NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. DEMOLISH EXISTING ZONE VALVE BOXES AND LOCAL EMERGENCY ALARM PANELS, (TYPICAL)

2. DEMOLISH EXISTING MEDICAL GASES UP TO CEILING.

3. CONTRACTOR TO VERIFY LOCATION OF MEDICAL GAS RISERS FROM BELOW RELATIVE TO WALL TO BE DEMOLISHED. IF RISERS ARE LOCATED IN WALL TO BE DEMOLISHED, CONTRACTOR SHALL DEMOLISH EXISTING BACK TO CEILING OF LEVEL BELOW AND OFFSET INTO NEW LOCATION COMPLETE WITH NEW SERVICE ISOLATION VALVES. COORDINATE AFTER HOURS SHUTDOWN WITH HOSPITAL. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOLITION SCOPE.

1 K3E FLOOR PLAN - MEDICAL GAS - DEMOLITION  
1:100



2 K3C PART FLOOR PLAN - MEDICAL GAS - DEMOLITION  
1:100

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
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2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7

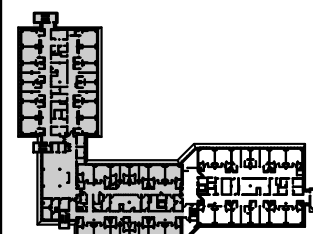


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Seal(s)



**NORR**

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Project Manager

M. LIGHT

Drawn

Z. QIAO

Project Leader

M. LIGHT

Checked

M. LIGHT

OWNER



Project  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

Drawing Title

K WING, 3RD FLOOR, K-3-E, FLOOR PLAN  
MEDICAL GAS DEMOLITION

PHASE - K-3-E RENOVATION

Scale:

1:100

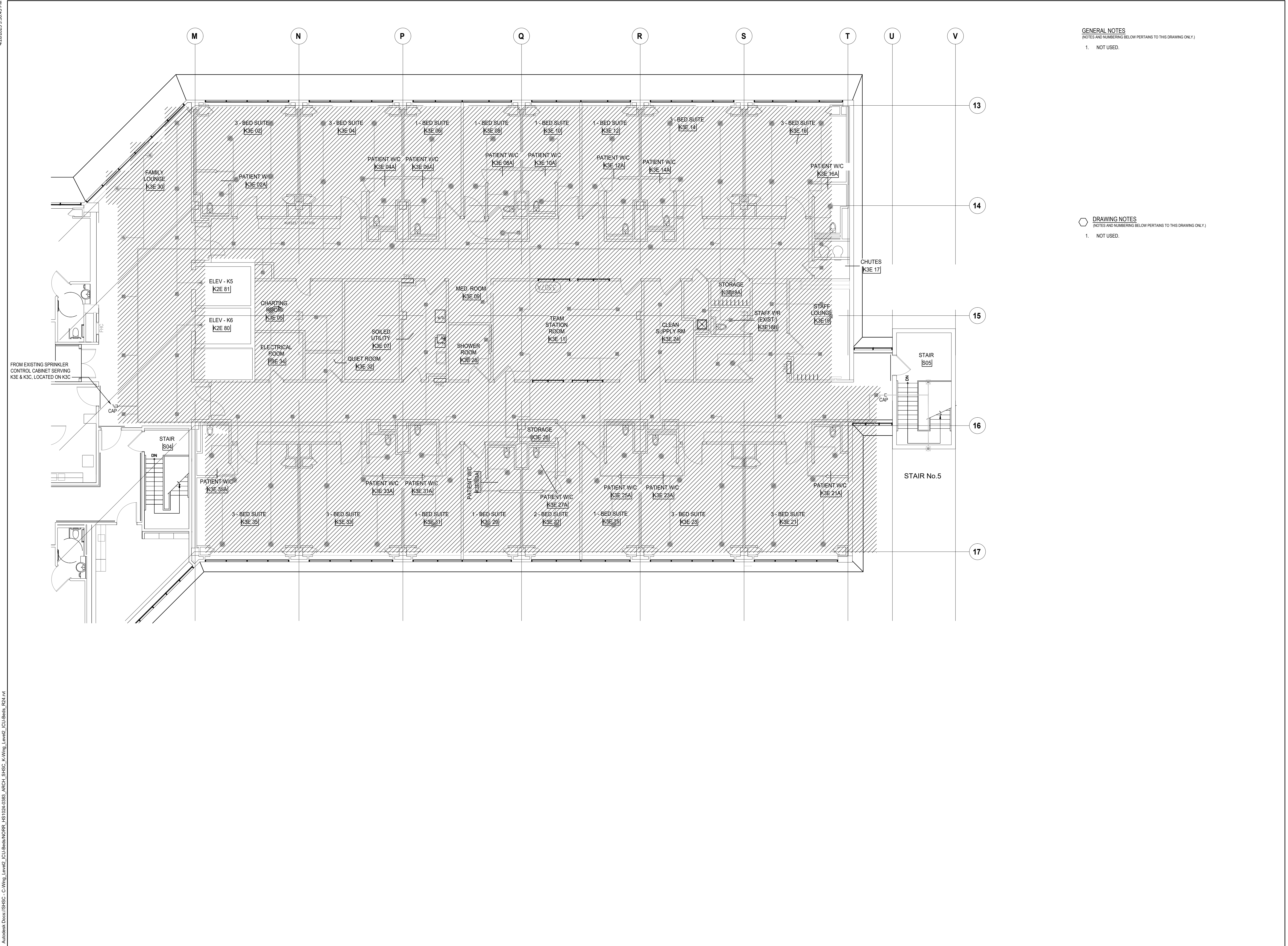
Project No.

HS1024-0383 (2240067)

Drawing No.

M-207






GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

DRAWING NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
2025-07-21	ISSUED FOR BUILDING PERMIT	3
2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7

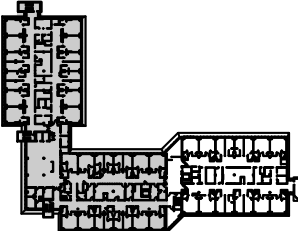
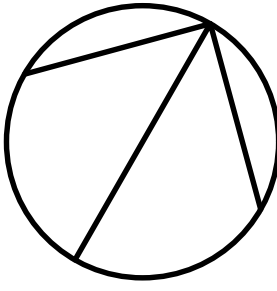


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North Arrow




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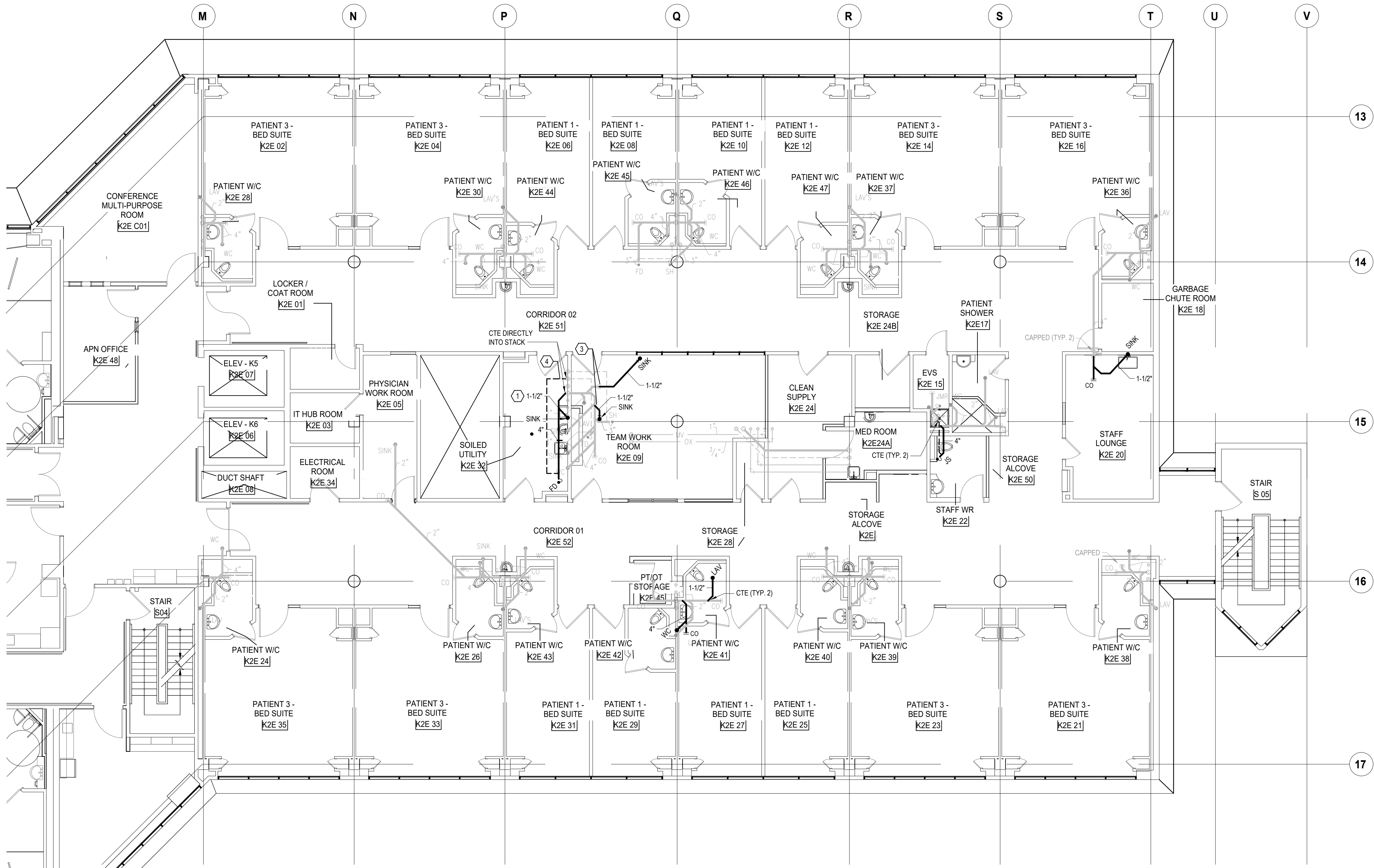
**NORR**

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norr.com

Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT
<b>OWNER</b> 	
<b>Project</b> PHASE1: SHSC GIM Decant (K2E) PHASE2: SHSC Renovation of C2 Decant (K3E)	
TORONTO, ON, CANADA	
<b>Drawing Title</b> K WING, 3RD FLOOR, K-3-E, FLOOR PLAN FIRE PROTECTION DEMOLITION  PHASE - K-3-E RENOVATION	
<b>Scale:</b> 1:100	
<b>Project No.</b> HS1024-0383 (2240067)	
<b>Drawing No.</b> M-208	





GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

- DRAWING NOTES**  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)
1. NEW 2" SANITARY DRAIN BACK TO STACK. PER MACERATOR (SBO) REQUIREMENTS, DRAINAGE MUST TIE INTO STACK DIRECTLY. DO NOT COMBINE WITH DRAINAGE FROM OTHER FIXTURES.
  2. NOT USED.
  3. CTE STACK OR CAPPED SANITARY DRAINAGE FROM DEMOLISHED FIXTURES PROVIDED SIZE AND SLOPE ARE SUFFICIENT. ALLOW FOR CONNECTION DIRECTLY INTO STACK IF REQUIRED.
  4. CONTRACTOR TO SITE VERIFY IF THERE IS SUFFICIENT SPACE TO RUN NEW VENT PIPING IN THE CEILING. IF THERE IS INSUFFICIENT SPACE, CONTRACTOR SHALL ALLOW FOR CORE AND ADDITIONAL PIPING TO CONNECT VENT PIPING ON FLOOR ABOVE.

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
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2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7

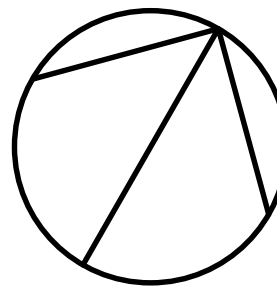
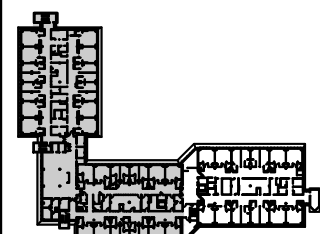


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Seal(s)



**NORR**

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norr.com

Project Manager

M. LIGHT

Drawn

Z. QIAO

Project Leader

M. LIGHT

Checked

M. LIGHT

OWNER



**Project**  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

Drawing Title

K WING, 2ND FLOOR, K-2-E, FLOOR PLAN  
PLUMBING NEW WORK

PHASE - K-3-E RENOVATION

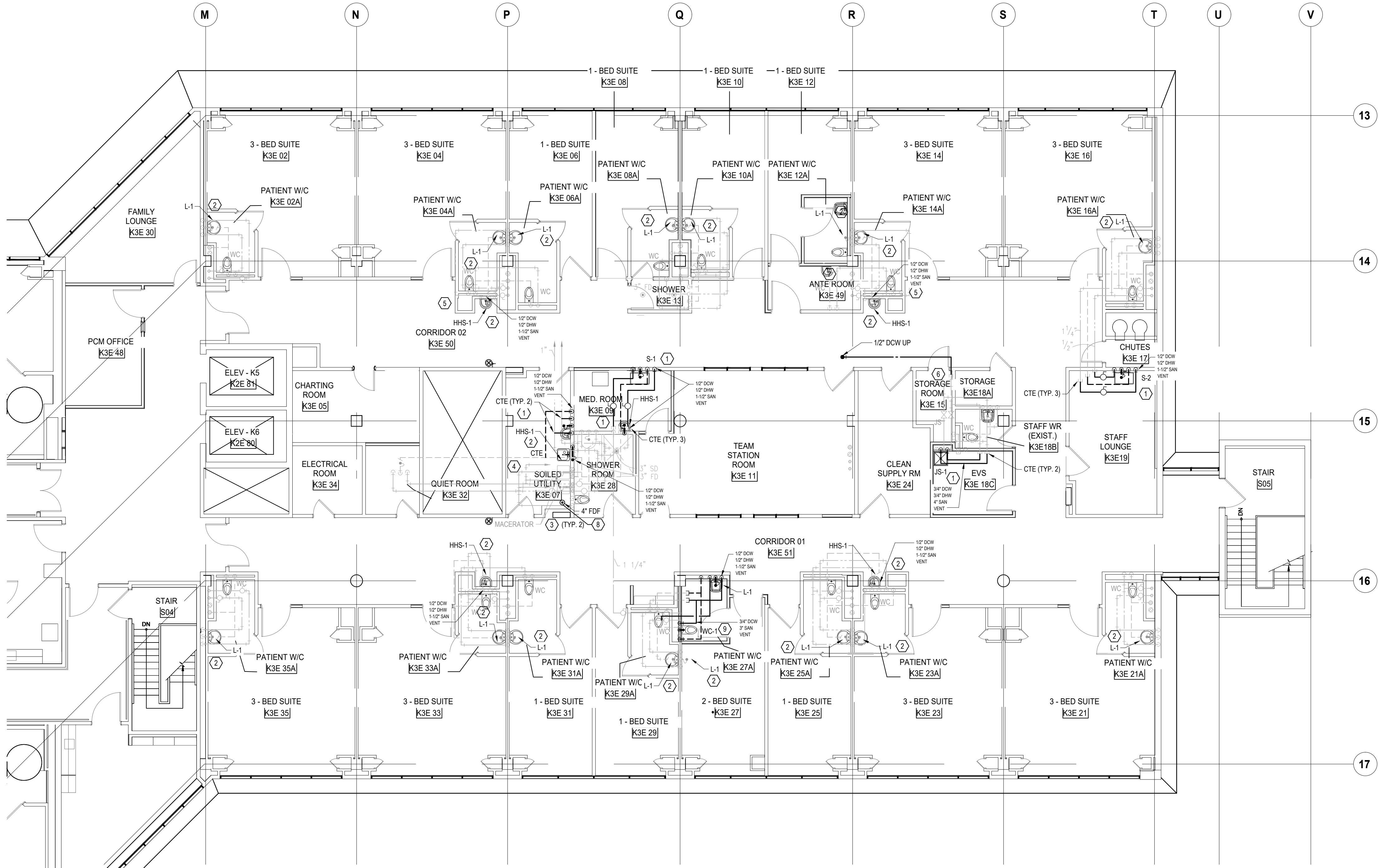
Scale: 1:100

Project No. HS1024-0383 (2240067)

Drawing No.

M-221





GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

DRAWING NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. PROVIDE NEW PLUMBING FIXTURE COMPLETE WITH ALL ASSOCIATED DCW, DHW, SANITARY DRAINAGE, AND VENT PIPING. CONNECT TO EXISTING MAINS NEARBY. PROVIDE DOMESTIC WATER PIPING WITH DEDICATED ISOLATION VALVES PER FIXTURE.
2. CONNECT TO EXISTING DCW, DHW, VENT, AND SANITARY PIPING FROM DEMOLISHED SINK.
3. EXISTING MACERATOR TO REMAIN. DCW TO EACH MACERATOR IS C/W EXISTING BACKFLOW PREVENTER DRAINED TO NEARBY SINK.
4. REWORK DRAINS FROM EXISTING BACKFLOW PREVENTERS TO TERMINATE ABOVE NEW FUNNEL FLOOR DRAIN.
5. ASSUME PLUMBING VENTS TO BE RELOCATED IN EACH OF SHAFTS WHERE NEW DUCTS ARE BEING ADDED.
6. NEW HEAT TRACED AND INSULATED DCW LINE TO THE STEAM GENERATOR ON THE ROOF. CTE PIPING IN EVS CLOSET K3E 15. ALLOW FOR ADDITIONAL 20 FT OF 3" DCW PIPING. USE ALLOWANCE TO ROUTE PIPE AROUND EXISTING CEILING SERVICES.
7. RELOCATE ONE (1) PLUMBING VENT THROUGH THE SLAB VERTICALLY IN K3E 49 AND RECONNECT TO EXISTING BELOW THE ROOF.
8. PROVIDE ELECTRONIC TRAP SEAL PRIMER, FED FROM NEARBY DCW, TO SERVE NEW FLOOR DRAIN. ALLOW FOR ONE (1) PER FLOOR DRAIN.
9. ALLOW FOR REWORKING EXISTING STACKS AND RISERS TO MAKE SPACE FOR NEW WC-1 CARRIER.

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
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2025-11-20	ISSUED FOR TENDER	7

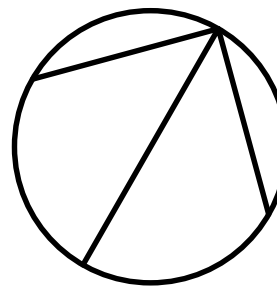
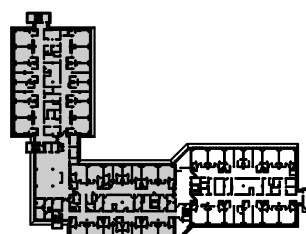


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North Arrow



Seal(s)



**NORR**

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norr.com

Project Manager  
M. LIGHT

Drawn  
Z. QIAO

Project Leader  
M. LIGHT

Checked  
M. LIGHT

OWNER



Project  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

Drawing Title

K WING, 3RD FLOOR, K-3-E, FLOOR PLAN  
PLUMBING NEW WORK

PHASE - K-3-E RENOVATION

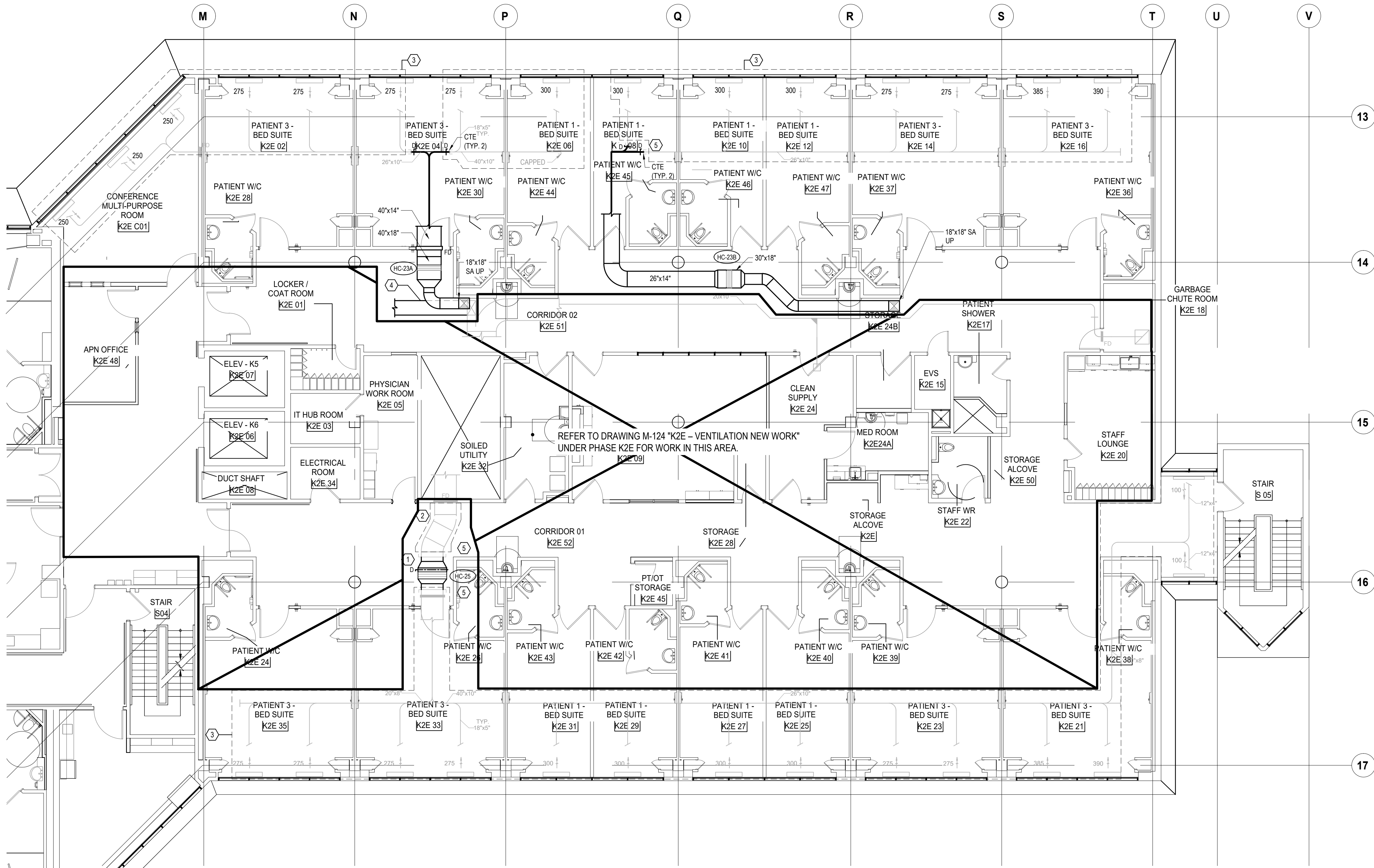
Scale: 1:100

Project No. HS1024-0383 (2240067)

Drawing No.

M-222





- GENERAL NOTES**  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)
- WHERE EXISTING DUCTWORK, GRILLES, AND/OR DIFFUSERS ARE SHOWN TO REMAIN, CONTRACTOR SHALL CLEAN ALL DUCTWORK BACK TO WHERE DUCTS EXIT SHAFTS, CLEAN ALL GRILLES AND DIFFUSERS.
  - CONTRACTOR SHALL REBALANCE ENTIRE VENTILATION SYSTEM WHERE NEW AIRFLOWS ARE NOT SHOWN. CONTRACTOR SHALL MATCH OR EXCEED EXISTING AIRFLOWS PER THE PRECONSTRUCTION AIR AUDIT.
  - BALANCING DAMPERS ARE REQUIRED AT ALL NEW DUCTWORK BRANCH CONNECTIONS AND UPSTREAM OF EACH NEW GRILLE/DIFFUSER WHERE AN EXISTING DUCT BRANCH IS BEING REUSED. REFER TO DRAWINGS FOR SCOPE OF NEW BALANCING DAMPERS ON EXISTING DUCTWORK TO IMPROVE BALANCING. 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.

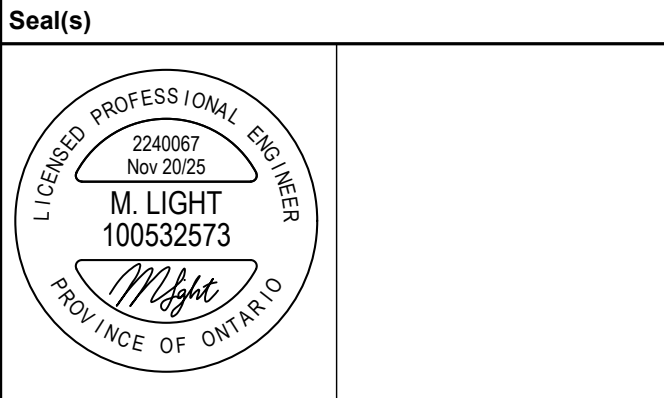
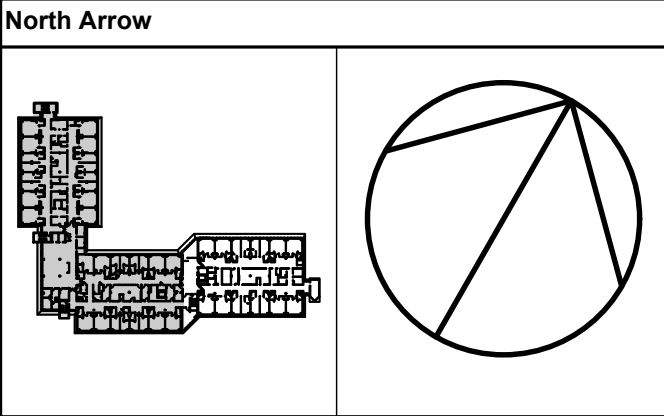
- DRAWING NOTES**  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)
- CONNECT TO EXISTING DUCT UPSTREAM OF FIRE DAMPER. ALLOW FOR NEW FIRE DAMPER ACCESS DOOR IN CASE EXISTING WAS REMOVED DURING DEMOLITION.
  - CONTRACTOR SHALL CLEAN ALL EXISTING DUCTWORK UPSTREAM OF THE REHEAT COIL BACK TO THE SHAFT.
  - CONTRACTOR SHALL CLEAN ALL EXISTING DUCTWORK DOWNSTREAM OF NEW REHEAT COILS INCLUDING DUCTS UP TO FLOOR ABOVE.
  - REROUTE RETURN DUCT LOWER INTO SPACE PREVIOUSLY OCCUPIED BY SUPPLY DUCT.
  - CONNECT TO EXISTING CAPPED DUCT.

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
2025-07-21	ISSUED FOR BUILDING PERMIT	3
2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7



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Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT



**Project**  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2 Decant (K3E)

TORONTO, ON, CANADA

**Drawing Title**  
K WING, 2ND FLOOR, K-2-E, FLOOR PLAN  
VENTILATION NEW WORK

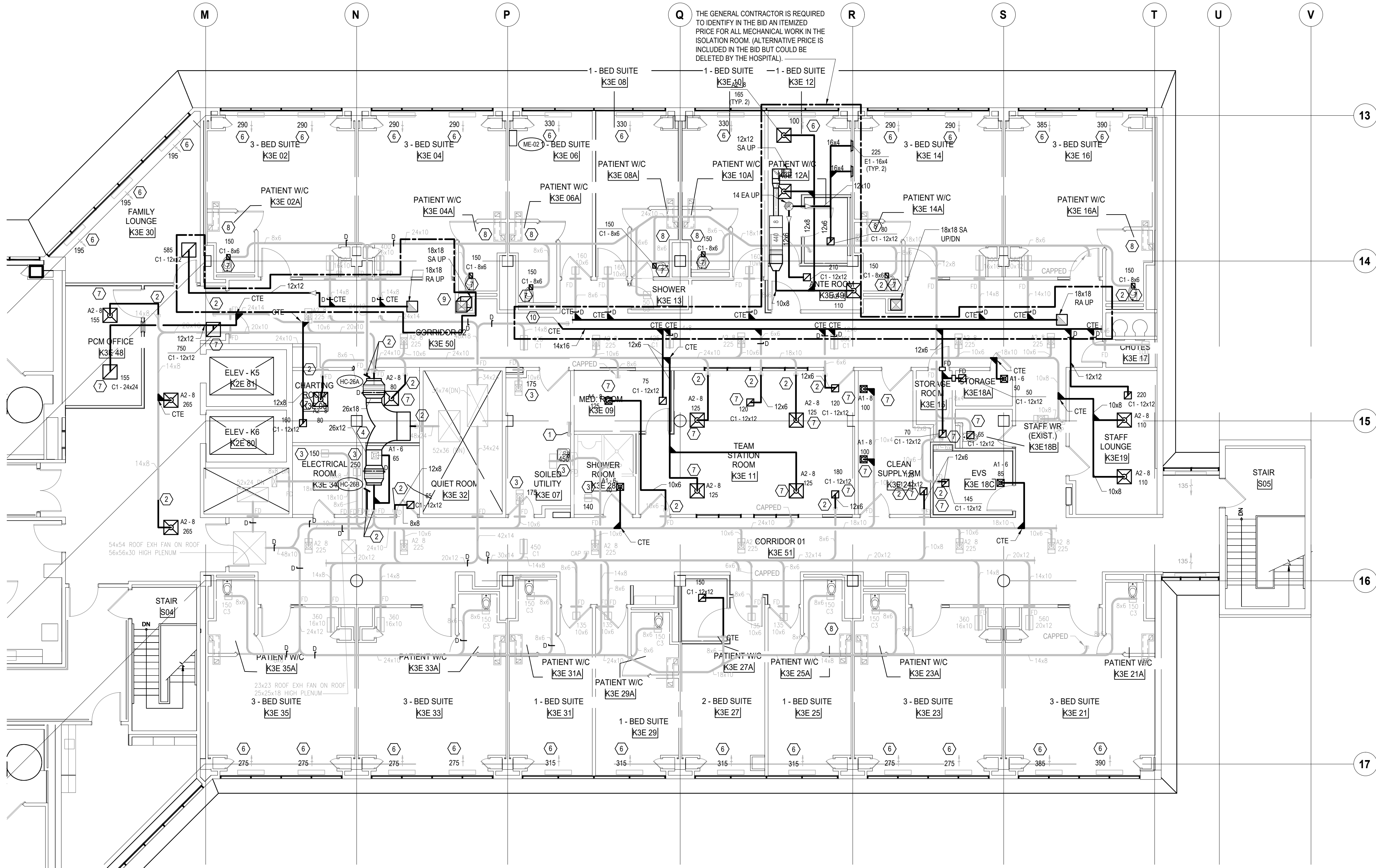
PHASE - K-3-E RENOVATION

**Scale:** 1:100

**Project No.** HS1024-0383 (2240067)

**Drawing No.** M-223






- GENERAL NOTES**  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)
- WHERE EXISTING DUCTWORK, GRILLES, AND/OR DIFFUSERS ARE SHOWN TO REMAIN, CONTRACTOR SHALL CLEAN ALL DUCTWORK BACK TO WHERE DUCTS EXIT SHAFTS, CLEAN ALL GRILLES AND DIFFUSERS.
  - CONTRACTOR SHALL REBALANCE ENTIRE VENTILATION SYSTEM. WHERE NEW AIRFLOWS ARE NOT SHOWN, CONTRACTOR SHALL MATCH OR EXCEED EXISTING AIRFLOWS PER THE PRECONSTRUCTION AIR AUDIT.
  - BALANCING DAMPERS ARE REQUIRED AT ALL NEW DUCTWORK BRANCH CONNECTIONS AND UPSTREAM OF EACH NEW GRILLE/DIFFUSER WHERE AN EXISTING DUCT BRANCH IS BEING REUSED. REFER TO DRAWINGS FOR SCOPE OF NEW BALANCING DAMPERS ON EXISTING DUCTWORK TO IMPROVE BALANCING. 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.

- DRAWING NOTES**  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)
- EXISTING DRYER VENT UP/DN TO REMAIN.
  - CONNECT TO EXISTING CAPPED DUCT.
  - REBALANCE EXISTING GRILLE OR DIFFUSER TO THE NEW AIRFLOW NOTED.
  - ALLOW FOR FOUR (4) OFFSETS TO MAKE CONNECTION TO EXISTING DUCTWORK IN CONGESTED CEILING SPACE. CONTRACTOR TO INSTALL DUCT WITH THE MINIMUM POSSIBLE NUMBER OF OFFSETS.
  - NOT USED.
  - REBALANCE SUPPLY GRILLES UNDER WINDOW TO THE NEW AIRFLOW NOTED. CLEAN EXISTING PLENUM(S)/VOID SPACE(S) BELOW WINDOW WHERE AIR ENTERS FROM BELOW. CLEAN EXISTING SUPPLY AIR GRILLE(S). REFER TO DETAIL 1M-002.
  - REPLACE EXISTING GRILLE OR DIFFUSER WITH NEW.
  - RELOCATE TRANSFER GRILLE AS REQUIRED TO SUIT NEW CEILING.
  - OFFSET SMOOTHLY WITHIN CEILING SPACE SUCH THAT DUCT BELOW CEILING FITS WITHIN SHAFT. REFER TO ROOF PLAN FOR NOTES REGARDING EXACT LOCATION ROOF PENETRATION.
  - REPLACE 26"x16" WITH TWO (2) DUCTS. NOTE: IF THERE IS SUFFICIENT SPACE BESIDE THE EXISTING DUCT, CONTRACTOR MAY OMIT THE DEMO/NEW OF THE EXISTING DUCT, CONTRACTOR MAY OMIT THE RETURN DUCT AND REWORK TAKEOFFS ACCORDINGLY.

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2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7

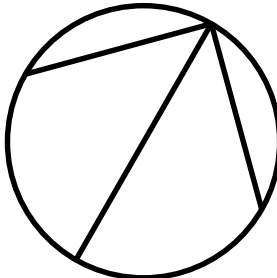


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**Seal(s)**



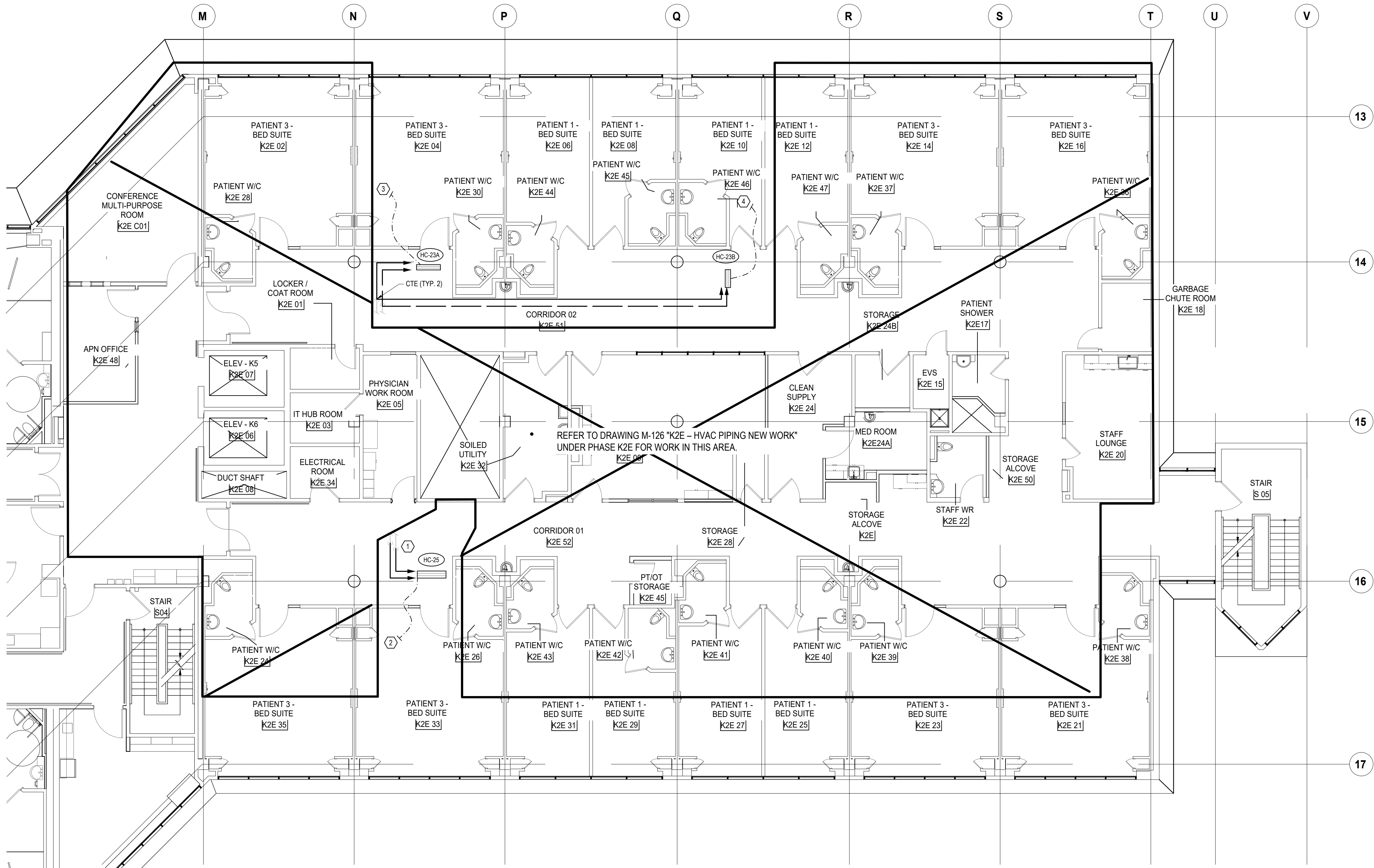
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Toronto, ON, Canada M4W 3R8  
norr.com

Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT
<b>OWNER</b> 	
<b>Project</b> PHASE1: SHSC GIM Decant (K2E) PHASE2: SHSC Renovation of C2 Decant (K3E)	
TORONTO, ON, CANADA	
<b>Drawing Title</b> K WING, 3RD FLOOR, K-3-E, FLOOR PLAN VENTILATION NEW WORK PHASE - K-3-E RENOVATION	
<b>Scale:</b> 1:100	
<b>Project No.</b> HS1024-0383 (2240067)	
<b>Drawing No.</b> M-224	






GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

DRAWING NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. CONNECT TO EXISTING HEATING WATER PIPING.  
2. PROVIDE NEW THERMOSTATS ABOVE IN ROOM K3E33 & ROOM K3E25.  
3. PROVIDE NEW THERMOSTATS ABOVE IN ROOM K3E02 & ROOM K3E06.  
4. PROVIDE NEW THERMOSTATS ABOVE IN ROOM K3E10 & ROOM K3E14.

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2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7

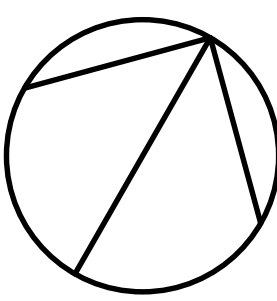


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Seal(s)



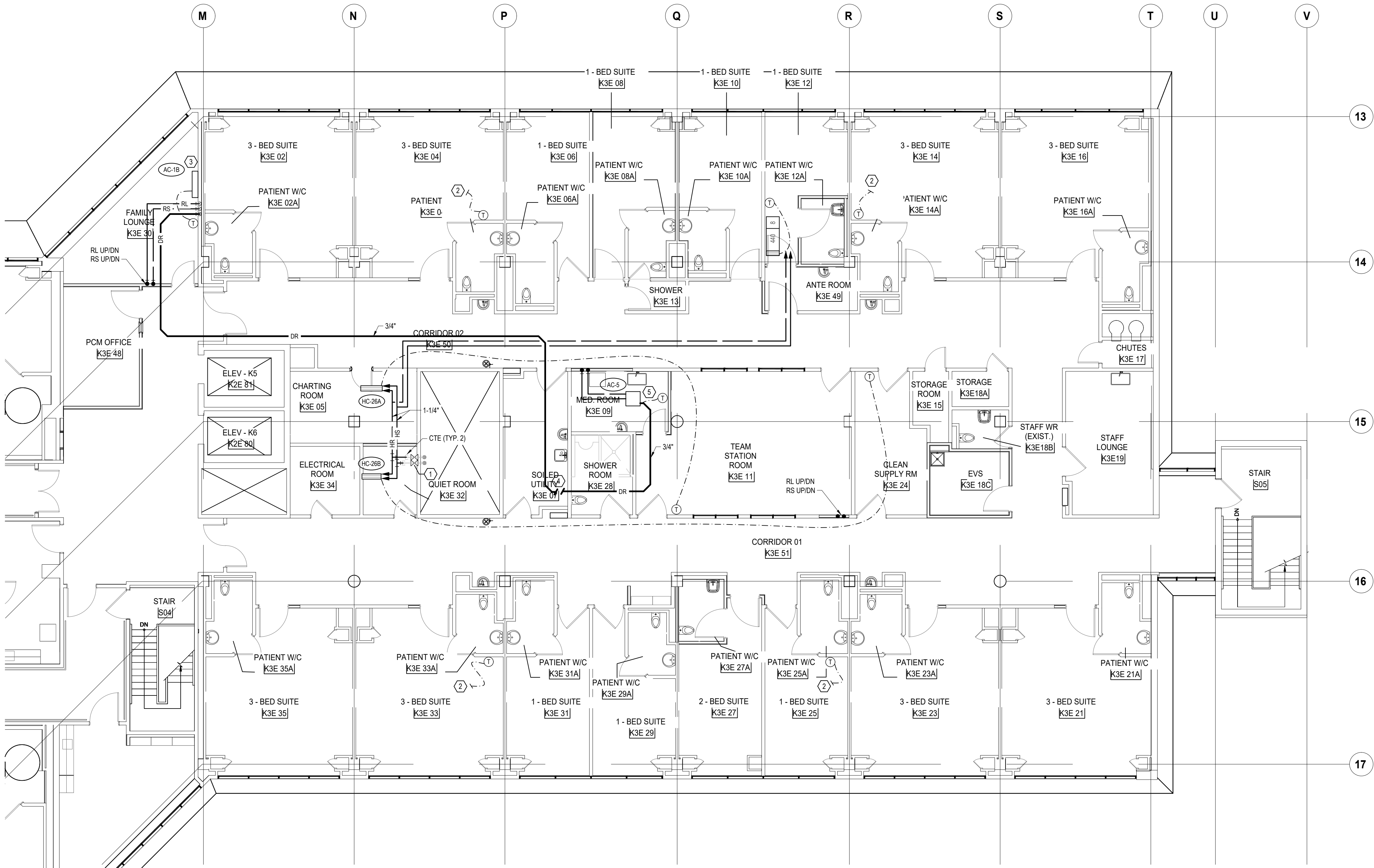
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norr.com

Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT
<b>OWNER</b> 	
<b>Project</b> PHASE1: SHSC GIM Decant (K2E) PHASE2: SHSC Renovation of C2 Decant (K3E)	
TORONTO, ON, CANADA	
<b>Drawing Title</b> K WING, 2ND FLOOR, K-2-E, FLOOR PLAN HVAC PIPING NEW WORK  PHASE - K-3-E RENOVATION	
<b>Scale:</b> 1:100	
<b>Project No.</b> HS1024-0383 (2240067)	
<b>Drawing No.</b> M-225	





GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

- DRAWING NOTES**  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)
1. PROVIDE NEW HEATING WATER SUPPLY AND RETURN ISOLATION VALVES.
  2. PROVIDE NEW THERMOSTAT SERVING REHEAT COIL LOCATED BELOW ON K2E.
  3. PROVIDE NEW WALL MOUNTED AC UNIT IN NEW FAMILY LOUNGE. ROUTE PIPING THROUGH WALLS UP TO CONDENSING UNIT CU-1 PREVIOUSLY INSTALLED ON ROOF ABOVE LEVEL 3 DURING PHASE K2E.
  4. CONDENSATE DRAINAGE TO TERMINATE ABOVE 4' FDF IN K3E 07 SOILED UTILITY ROOM (TYP. 2).
  5. PROVIDE NEW CEILING CASSETTE AC UNIT IN MED ROOM. ROUTE PIPING THROUGH WALLS UP TO CONDENSING UNIT CU-5.

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2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7

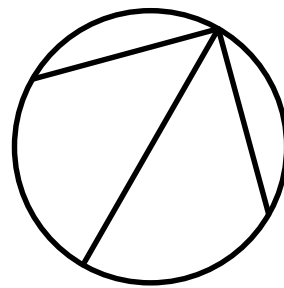
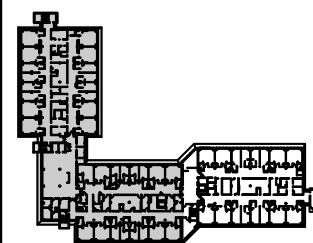


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Seal(s)



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Project Manager

M. LIGHT

Drawn

Z. QIAO

Project Leader

M. LIGHT

Checked

M. LIGHT

OWNER



**Project**  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

Drawing Title

K WING, 3RD FLOOR, K-3-E, FLOOR PLAN  
HVAC PIPING NEW WORK

PHASE - K-3-E RENOVATION

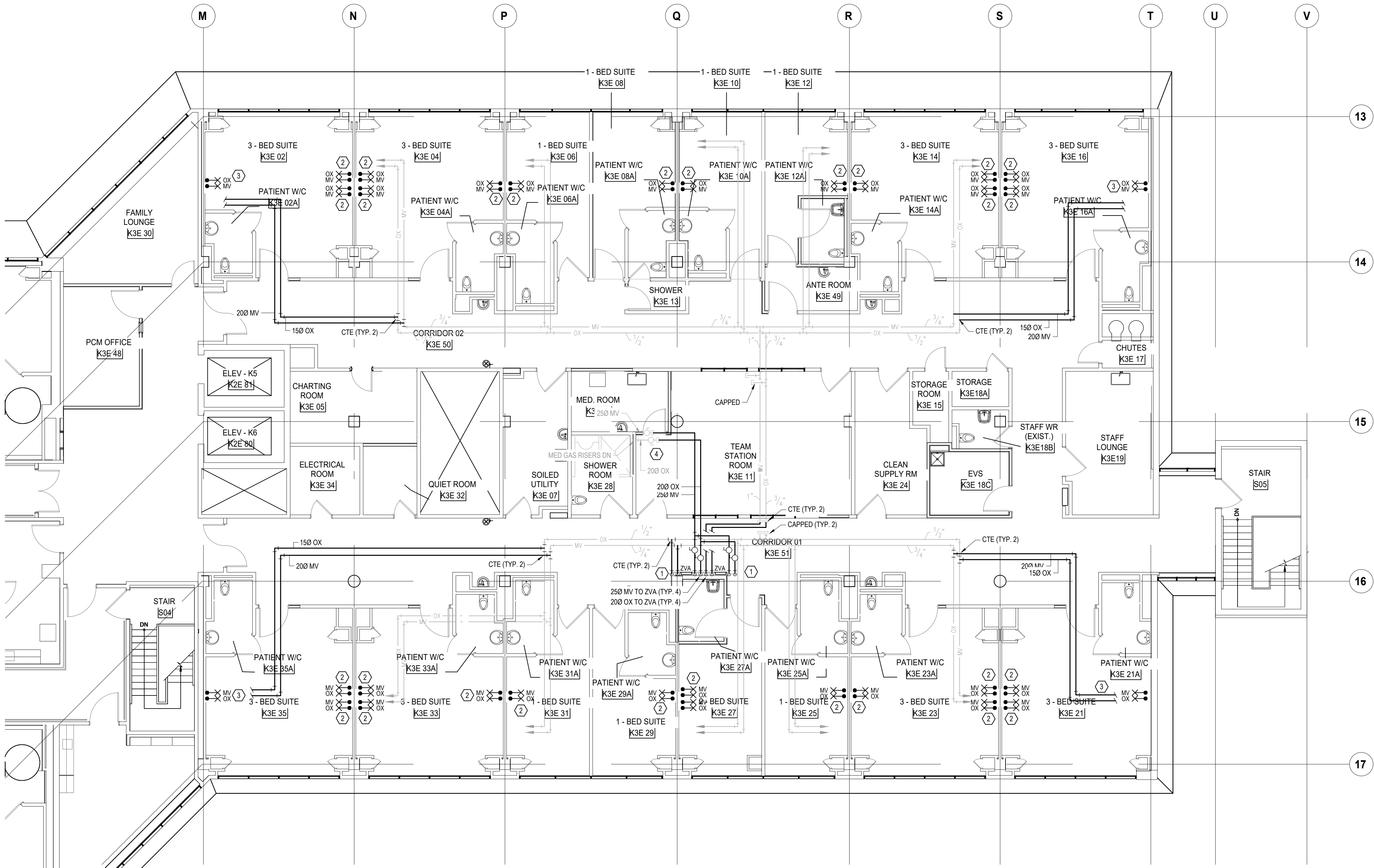
Scale: 1:100

Project No. HS1024-0383 (2240067)

Drawing No.

M-226





GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

- DRAWING NOTES**  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)
1. STAGGER PIPING TO ZONE VALVE BOXES WITHIN WALL IF REQUIRED. CONTRACTOR SHALL ALLOW FOR MINIMUM FOUR (4) EXTRA ELBOWS PER ZONE VALVE BOX. VALVES SHALL BE 200 OX & 250 MV. LABEL ZONE VALVES "NORTH PATIENT BEDS" AND "SOUTH PATIENT BEDS".
  2. PROVIDE NEW MEDICAL GAS OUTLETS. NEW HEADWALL PROVIDED BY OTHER DIVISIONS. CONNECT TO EXISTING PIPING IN CEILING. PROVIDE ONE OXYGEN AND ONE MEDICAL VACUUM OUTLET PER BED. NEW HEADWALL LOCATION MAY NOT MATCH EXISTING. ALLOW FOR REWORKING PIPE TO SUIT NEW LOCATION.
  3. PROVIDE NEW MEDICAL GAS OUTLETS. NEW HEADWALL PROVIDED BY OTHER DIVISIONS. PROVIDE ONE OXYGEN AND ONE MEDICAL VACUUM OUTLET PER BED.
  4. CONNECT TO EXISTING 200 OXYGEN AND 250 MEDICAL VACUUM PIPING WHERE INDICATED.

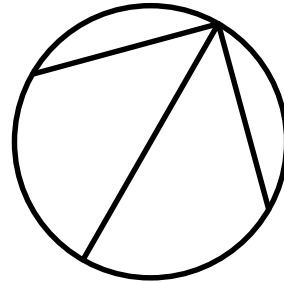
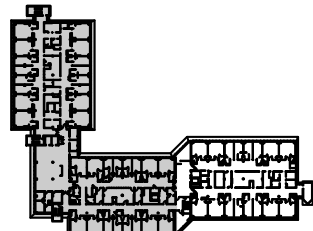
DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
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2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
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2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7



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Project Manager

M. LIGHT

Drawn

Z. QIAO

Project Leader

M. LIGHT

Checked

M. LIGHT

OWNER



**Project**  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2 Decant (K3E)

TORONTO, ON, CANADA

Drawing Title

K WING, 3RD FLOOR, K-3-E, FLOOR PLAN  
MEDICAL GAS NEW WORK

PHASE - K-3-E RENOVATION

**Scale:** 1:100

**Project No.** HS1024-0383 (2240067)

Drawing No.

M-227

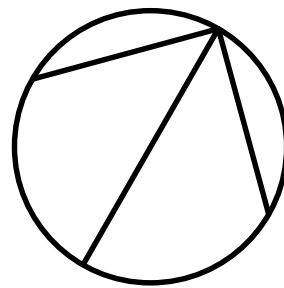




DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
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Project Manager M. LIGHT	Drawn Z. QIAO
Project Leader M. LIGHT	Checked M. LIGHT



Sunnybrook  
HEALTH SCIENCES CENTRE

**Project**  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2  
Decant (K3E)

TORONTO, ON, CANADA

**Drawing Title**  
K WING, 3RD FLOOR, K-3-E, FLOOR PLAN  
FIRE PROTECTION NEW WORK

### PHASE - K-3-E RENOVATION

**Scale:** 1:100

**Project No.** HS1024-0383 (2240067)

Drawing No.

M-228




GENERAL NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)

1. NOT USED.

- DRAWING NOTES  
(NOTES AND NUMBERING BELOW PERTAINS TO THIS DRAWING ONLY.)
1. COORDINATE EXACT LOCATIONS OF ALL EQUIPMENT AND ROOF PENETRATIONS WITH STRUCTURAL ENGINEER.
2. INSTALL ON CONCRETE PAVERS ON TOP OF 2" STYROFOAM.

DATE	ISSUED FOR	REV
2025-05-27	ISSUED FOR 50% CD	1
2025-06-27	ISSUED FOR 75% CONSTRUCTION DRAWINGS	2
2025-07-21	ISSUED FOR BUILDING PERMIT	3
2025-07-25	ISSUED FOR 90% CONSTRUCTION DRAWINGS	4
2025-08-12	ISSUED FOR 100% CONTRACT DRAWINGS	5
2025-11-07	RE-ISSUED FOR PERMIT	6
2025-11-20	ISSUED FOR TENDER	7

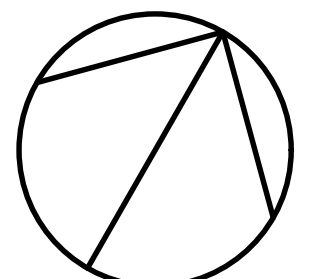
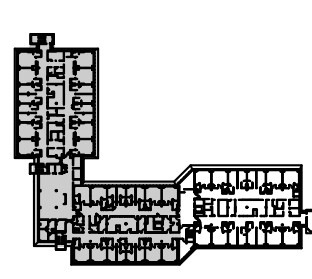


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Project Leader M. LIGHT	Checked M. LIGHT

OWNER



Project  
PHASE1: SHSC GIM Decant (K2E)  
PHASE2: SHSC Renovation of C2 Decant (K3E)

TORONTO, ON, CANADA

Drawing Title  
K WING, EAST ROOF PLAN  
-

MECHANICAL

Scale: 1:100

Project No. HS1024-0383 (2240067)

Drawing No. M-229