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No.	Date	Issue/Revision

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No.	Date	Issue/Revision
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Robarts 5th Floor MDL  
Renovation

Title: **MECHANICAL DRAWING  
LIST, LEGENDS AND  
STANDARD DETAILS**

Project No.08086.009.MEAVD	Scale AS NOTED
Drawing No.	

M-000



## Pneumatic Wireless Thermostats

**B.I.L. OF MATERIALS**

Description	Qty	Part Number	Description
② BACnet Gateway	254	WPT40N4C100P	Cypress Thermostat
	113	WPT40N4C12AS	Cypress Thermostat
	14	OBC-CR40M1	Green Box
	14	WPT40N4C12AS	WPT USB KIT

FLOOR	# OF TS/TATS	# OF DDC TSTAT	# OF REPEATERS	# BACNET ROUTER
J-4	11	0	11	1
J-5	18	0	6	1
J-7	17	0	6	1
J-11	17	0	6	1
J-15	17	0	6	1
J-9	20	0	8	1
J-8	23	0	9	1
J-7	18	0	7	1
J-6	20	0	7	1
J-5	13	0	6	1
J-4	18	14	6	1
J-3	13	0	6	1
J-2	22	0	7	1
J-1	10	0	9	1
B1	9	0	4	1
B2	8	0	6	1
TOTAL	254	14	110	10

4.21 SPACE THERMOSTATS – MAIN LIBRARY

4.21.1 Space temperature will be replaced with new wireless to pneumatic local thermostats and will control re-heat coils valves as before. Wireless communication signals will be done through the Cypress "green box" to adjust setpoint, record current temperature and pneumatic position. Refer to project list for more detail.

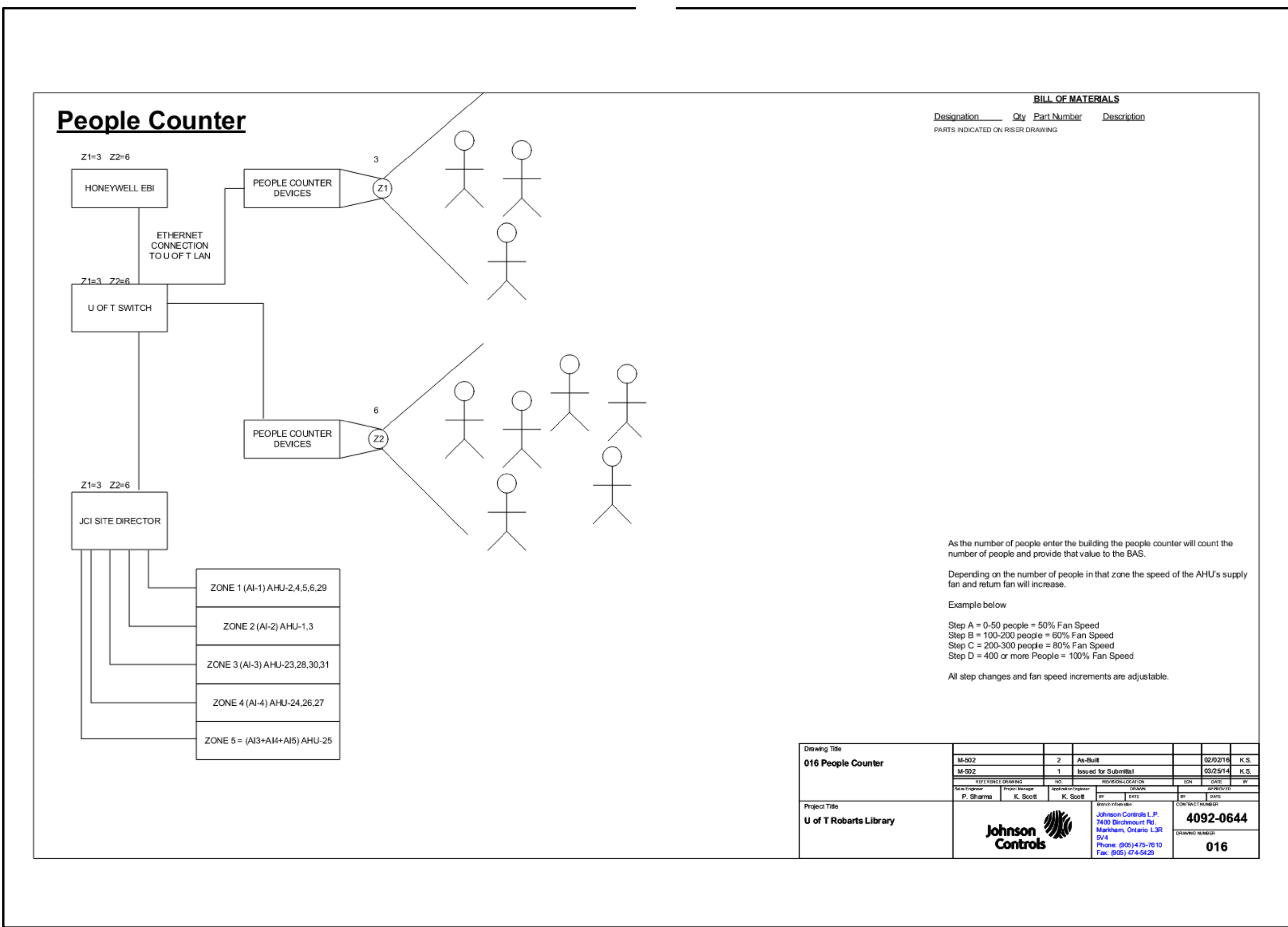
Company	Project Name	Date	Version	Status	Author	Reviewer	Checker	Approver	Notes
Johnson Controls	4092-0644	01/15/2014	1.0	In Progress	J. Smith	R. Jones	M. Brown	D. White	See Notes

**Johnson Controls**

4092-0644

017

WIRELESS THERMOSTATS (EXISTING - FOR INFORMATION ONLY)



PEOPLE COUNTER (OUTSIDE AIR CONTROLLER) (EXISTING - FOR INFORMATION ONLY)

[illegible]

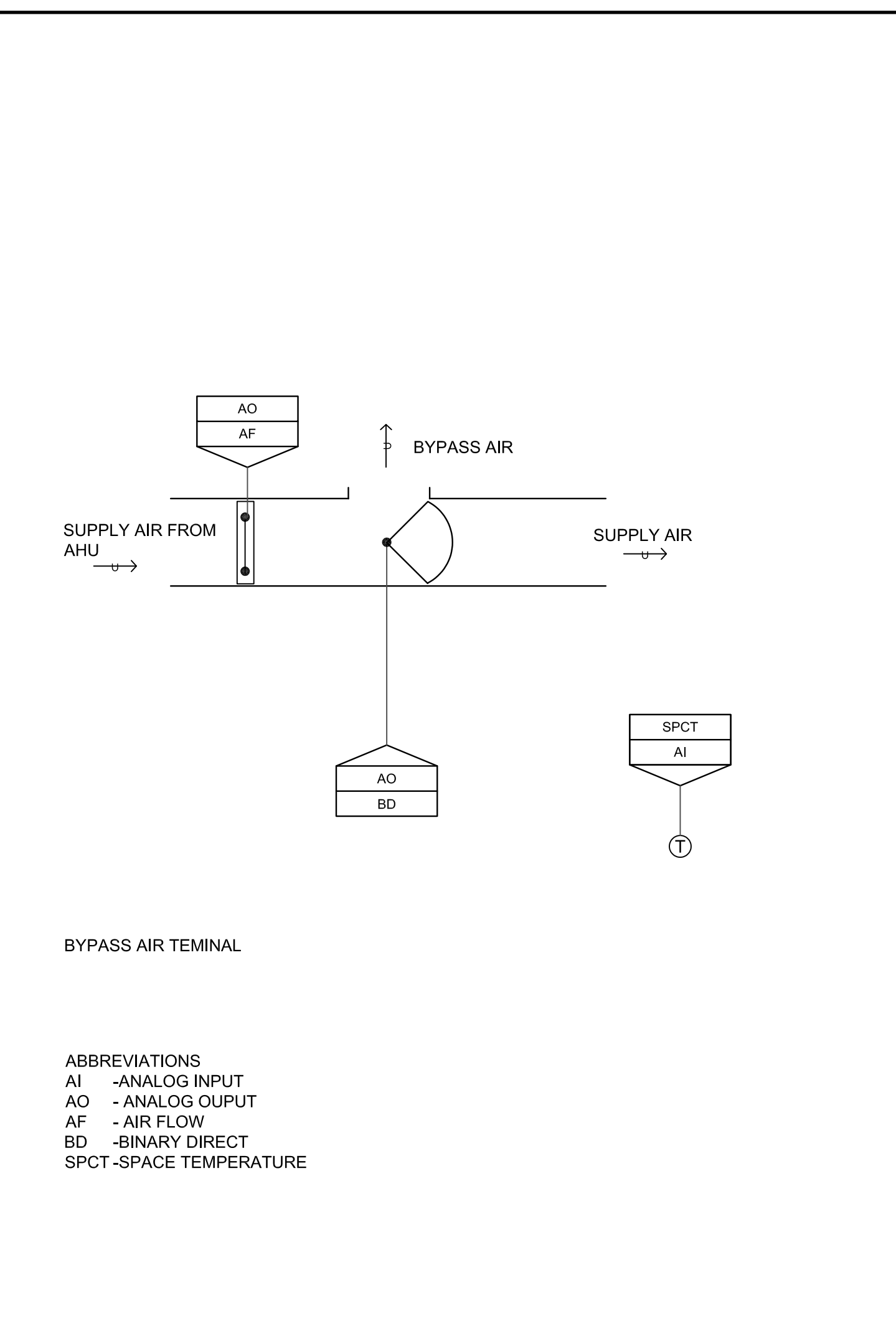
4 AIR HANDLING UNITS (EXISTING - FOR INFORMATION ONLY)

[illegible]

1000

[illegible]

6 NETWORK RISER (EXISTING - FOR INFORMATION ONLY)



1  
M-001

BY PASS VAV TERMINAL

The schematic diagram illustrates the wiring for the BAS Graphics system. At the top left, a list of monitored parameters is provided:

- SPACE TEMPERATURE SET POINT
- SPACE TEMPERATURE PRESENT TEMPERATURE
- DAMPER COMMAND
- DAMPER FEED BACK
- HIGH SPACE TEMPERATURE ALARM
- LOW SPACE TEMPERATURE ALARM
- UPS OPERATING ON BATTERY ALARM
- UPS LOW BATTERY ALARMS

The main components and their interconnections are as follows:

- Network Switch:** Located in the NEMA 4 ENCLOSURE, it connects via CAT6 ETHERNET to the BCU 24V.
- BCU 24V:** Connected to the NETWORK SWITCH and the BACNET MSTP bus.
- BACNET MSTP:** A central communication bus connecting the BCU 24V, the UPS, and four B-ASC units.
- UPS:** Provides power to the BACNET MSTP bus and is connected to the 120V UPS input.
- B-ASC Units:** Four units are shown, three at the 5TH FLR and one at the 5TH FLOOR UTILITY ROOM # 5057A.
- Relays and Diodes:** The B-ASC units connect to a common terminal block, which then feeds into a relay assembly containing RLAI, DI, DI, and RST1.
- Power Supply:** A 120V UPS provides power to the system through a switch and ground connection.

Reference notes are indicated throughout the diagram:

- REFER TO NOTE # 4 (for Network Switch)
- REFER TO NOTE # 1 (for CAT6 ETHERNET)
- REFER TO NOTE # 3 (for BACNET MSTP)
- REFER TO NOTE # 5 (for the bottom B-ASC unit)

**DRAWING NOTES:**

- PROVIDE NEW BACNET BUILDING CONTROLLER.
- PROVIDE NEW LOCAL EQUIPMENT CONTROLLERS (QUANTITY TO BE DETERMINED BY BAS CONTRACTOR) TO SUIT INSTALLATION AND SEQUENCE OF OPERATION REQUIREMENTS).
- PROVIDE NEW BACNET MSTP COMMUNICATIONS CABLE AND ASSOCIATED CONDUIT BETWEEN CONTROLLER AND NETWORK CONTROLLER..
- PROVIDE NEW CAT6 CABLE AND ASSOCIATED CONDUIT FROM NETWORK CONTROLLER TO EXISTING BAS SWITCH. LABEL BOTH ENDS INDICATED BAS SWITCH LOCATION. FAS TERMINATION MUST BE MODULAR TERMALE.
- PROVIDE NEW UPS FOR NEW NETWORK CONTROLLER.
- CONTROL CONTRACTOR TO PROVIDE PHOTOGRAPHS OF INSTALLATION TO FAS IT GROUP PER U OF T BAS STANDARD.

\*ISSUED FOR REFERENCE ONLY

BST1

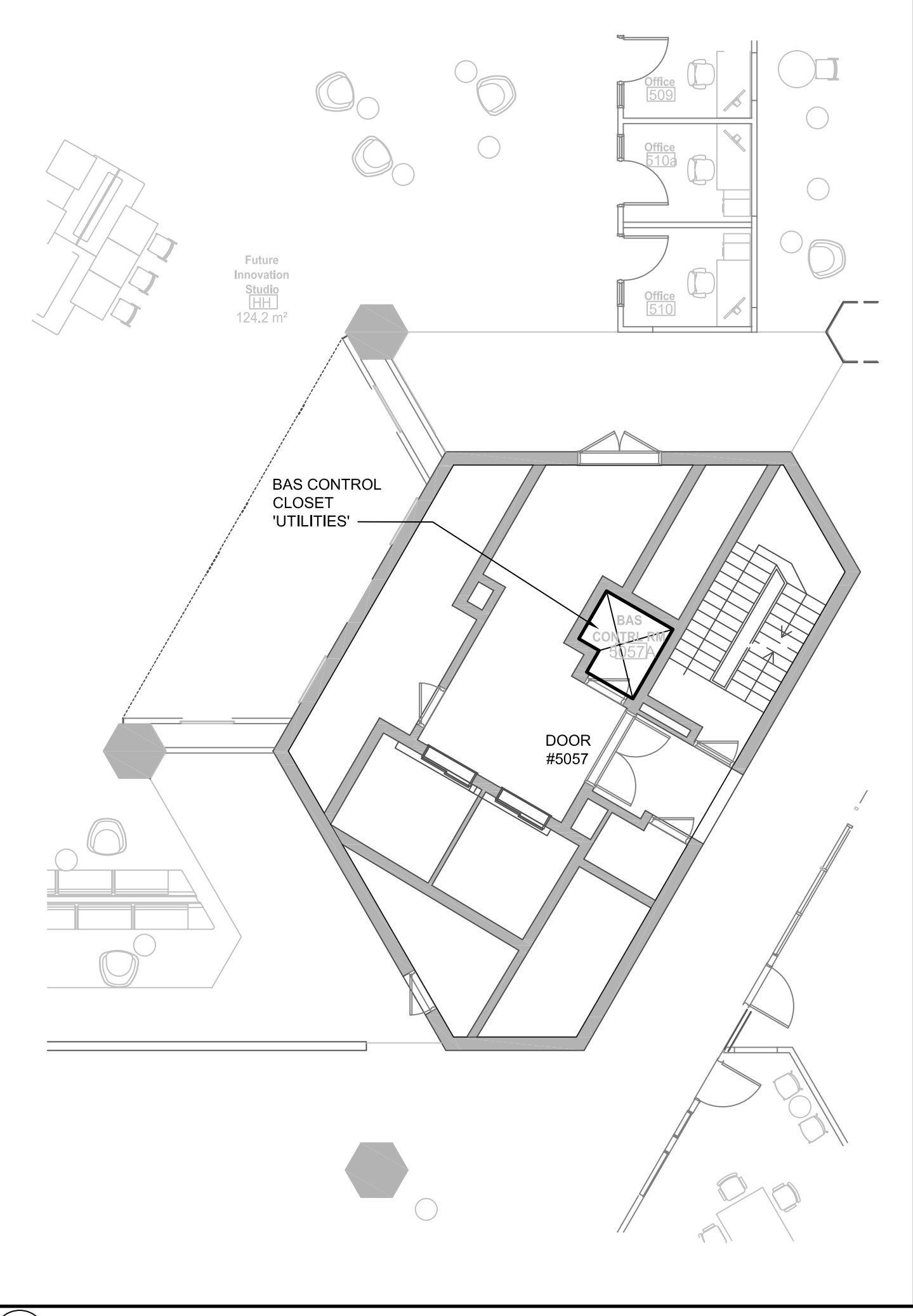
DRAWING NOTES:

1. PROVIDE NEW BACKET BUILDING CONTROLLER.
2. PROVIDE NEW LOCAL EQUIPMENT CONTROLLERS (QUANTITY TO BE DETERMINED BY FAS CONTRACTOR) TO SUIT INSTALLATION AND SEQUENCE OF OPERATION REQUIREMENTS).
3. PROVIDE NEW BACKET WITH COMMUNICATIONS CABLE AND ASSOCIATED CONDUIT BETWEEN CONTROLLER AND NETWORK CONTROLLER.
4. PROVIDE NEW CAT6 CABLE AND ASSOCIATED CONDUIT FROM NETWORK CONTROLLER TO EXISTING FAS SWITCH LABEL BOTH ENDS INDICATED FAS SWITCH LOCATION, FAS TERMINATION MUST BE MODULAR FEMALE.
5. PROVIDE NEW UPS FOR NEW NETWORK CONTROLLER.
6. CONTROL CONTRACTOR TO PROVIDE PHOTOGRAPHS OF INSTALLATION TO FAS IT GROUP PER U OF T BAS STANDARD.

\*ISSUED FOR REFERENCE ONLY

2  
M-001

5TH FLOOR BAS NET WORK CABINET SCHEMATIC



3  
M-001

5TH FLOOR BAS NET WORK CABINET ROOM LOCATION

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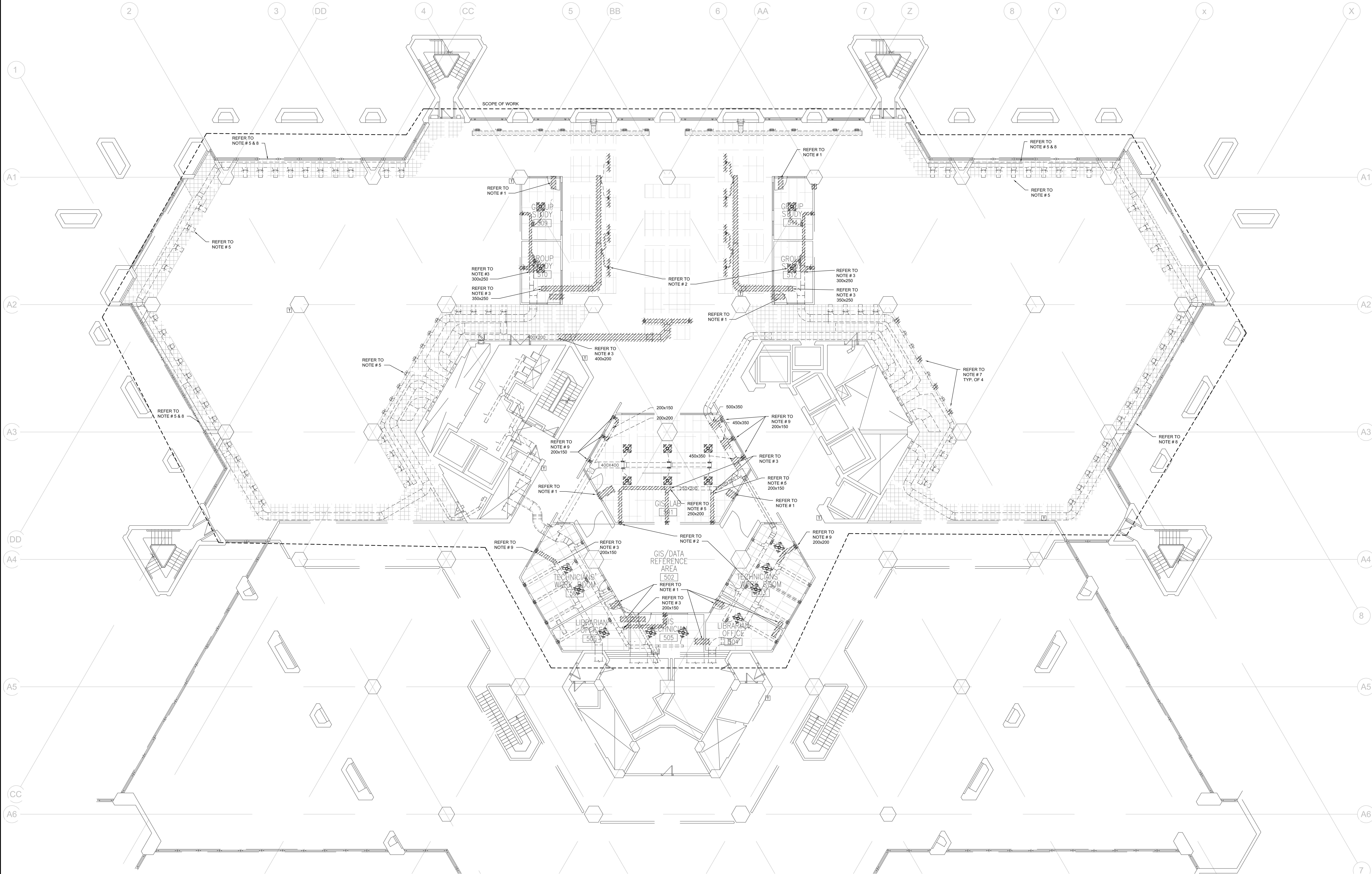
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Project No. 08086.009.MEAVD	Scale AS NOTED
Drawing No.	

M-001
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- READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- REFER TO STANDARD DETAIL SHEETS AND STANDARD DETAILS FOR ADDITIONAL INFORMATION.

DEMOLITION NOTES:

- REMOVE EXISTING ACoustically LINED TRANSFER AIR DUCTS IN APPROXIMATE LOCATIONS SHOWN. CONTRACTOR TO ALLOW FOR AND ADDITION THREE (3) TRANSFER DUCT NOT SHOWN ON DRAWINGS. (TYPICAL).
- REMOVE EXISTING DIFFUSERS AS INDICATED. REMOVE ALL EXISTING FLEXIBLE OR ROUND RIGID DUCTWORK WHERE DIFFUSERS ARE EITHER REMOVED OR RELOCATED. PROVIDE AND INSTALL NEW FLEXIBLE DUCTS TO RELOCATED DIFFUSERS. (TYPICAL).
- DISCONNECT EXISTING DUCTWORK AND REMOVE COMPLETE WITH ALL ASSOCIATED HANGERS AND SUPPORTS. REMOVE DUCTWORK FROM SITE. SIZE OF EXISTING DUCTWORK SHALL BE AS INDICATED ON THE DRAWING. ENSURE EXISTING TO REMAIN DUCTWORK IS SECURED IN PLACE. PROVIDE NEW HANGERS AS REQUIRED. (TYPICAL).
- CONTRACTOR TO MODIFY EXISTING DUCTWORK AND WALL GRILLES. EXISTING WALL GRILLES LOCATIONS ALIGN WITH CENTER LINE OF NEW GLAZING PANELS AND WALL SECTIONS. REFER TO DRAWING M-302 FOR APPROXIMATE LOCATIONS.
- PRIOR TO CONSTRUCTION, AIR BALANCING CONTRACTOR SHALL RECORD AIR FLOW VALUES SUPPLIED BY ALL ASSOCIATED DIFFUSERS.
- CAP (PATCH) EXISTING DUCT AND SEAL AIR TIGHT.
- REMOVE EXISTING SUPPLY AIR TAKE OFF, DUCT AND GRILLE. PATCH AND SEAL DUCTWORK AS REQUIRED. REFER TO DRAWING M-302 FOR NEW DUCTWORK REQUIREMENTS.
- EXISTING PERIMETER INDUCTION UNITS TO REMAIN. PROVIDE PROTECTION DURING CONSTRUCTION. PRIOR TO CONSTRUCTION RECORD THE POSITION OF THE PRIMARY AIR DAMPER AND CLOSE ALL DAMPER IN AREA OF CONSTRUCTION. COVER UNIT COILS WITH FILTER MEDIA TO PROTECT FROM DUST AND DEBRIS AND RECOVER ALL UNITS WITH PLASTIC SHEETING. TIGHTLY FIT AND TAPED TO PROTECT AGAINST THE INTRUSION OF DUST.
- EXISTING DUCTWORK AND GRILLES TO BE RELOCATED. REFER TO DRAWING M-302 FOR NEW GRILLE LOCATIONS. REUSE OR PROVIDE NEW DUCTWORK AS REQUIRED.

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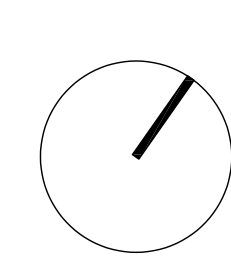
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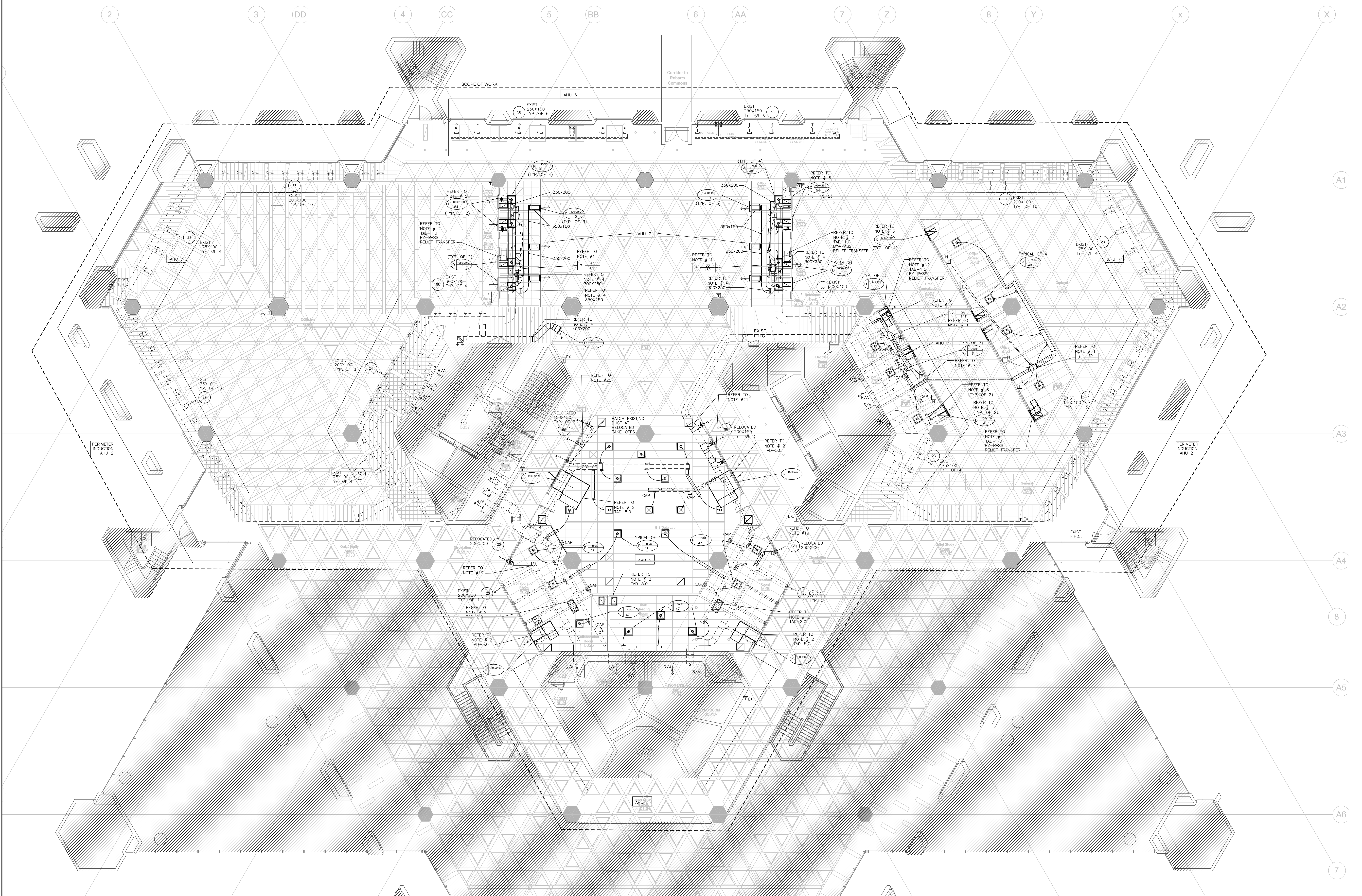
Robarts 5th Floor MDL Renovation

Title:  
5TH FLOOR  
H.V.A.C. DEMOLITION  
LAYOUT

Project No. 08086.009.MEAVD | Scale 1:100  
Drawing No.

M-301





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  - READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
  - REFER TO STANDARD DETAIL SHEETS AND STANDARD DETAILS FOR ADDITIONAL INFORMATION.
- DRAWING NOTES:
- NEW BY-PASS VAN BOX COMPLETE WITH HANGERS, SUPPORTS, RIGID DUCT, FLEXIBLE DUCT, DIFFUSERS, CONTROLS, CONTROLS, TO PROVIDE A COMPLETE AND OPERATIONAL INSTALLATION. REFER TO DRAWING FOR INLET SIZE.
  - PROVIDE ACoustically LINED TRANSFER AIR DUCT IN LOCATION SHOWN. DUCT TO MATCH GRILLE SIZE UNLESS NOTED OTHERWISE OR FREE AREA INDICATED. EXACT LOCATION, QUANTITY AND SIZE TO SUIT CEILING SPACE AND SITE CONDITIONS. REFER TO STANDARD DETAIL#B/M-000. (TYPICAL)  
TAD-0.5 PROVIDE A TOTAL OF 0.05 SQ.M (0.5 SQ.FT)  
TAD-1.0 PROVIDE A TOTAL OF 0.11 SQ.M (1.0 SQ.FT)  
TAD-1.5 PROVIDE A TOTAL OF 0.14 SQ.M (1.5 SQ.FT)  
TAD-2.0 PROVIDE A TOTAL OF 0.19 SQ.M (2.0 SQ.FT)  
TAD-5.0 PROVIDE A TOTAL OF 0.46 SQ.M (5.0 SQ.FT)
  - PROVIDE 600X300X400 HIGH ACoustically LINED TRANSFER AIR PLENUM OVER +/- 600X300 (LENGTH OF GRILLE TO SUITE AVAILABLE SPACE BETWEEN T-BARS) RETURN AIR GRILLE AT CEILING AND PROVIDE 600X150 ACoustically DUCT TO WALL GRILLE AS INDICATED. (TYPICAL)
  - CONNECT NEW DUCT TO EXISTING DUCT OF EQUAL SIZE AND EXTEND AS INDICATED. REFER TO DRAWING EXISTING NEW DUCT SIZES. (TYPICAL)
  - CONNECT NEW SUPPLY AIR DUCT AND TRANSFER/RETURN AIR DUCT TO COMMON GRILLE AS INDICATED. DUCT SIZES SHALL BE AS NOTED. AIR QUANTITY NOTED TO BE TOTAL FOR ACTIVE SECTION OF GRILLE ONLY AND SHALL NOT BE MEASURED ACROSS ENTIRE FACE OF GRILLE. (TYPICAL)
  - COORDINATE WALL GRILLES SIZES AND LOCATIONS WITH ARCHITECTURAL DRAWINGS. UNCOORDINATED INSTALLATION WILL NEED TO BE ALTERED TO SUITE ARCHITECTURAL. AT NO ADDITIONAL COST. ALL GRILLES TO BE WHITE FINISH UNLESS NOTED OTHERWISE. PROVIDE MATT BLACK BLANK OFF PLATES OF DIFFUSER FOR NON-ACTIVE SECTIONS OF GRILLES.
  - CONNECT NEW 200X BY-PASS VAN BOX INLET DUCT TO EXISTING SUPPLY AIR DUCT IN CEILING AND EXTEND TO NEW WALL GRILLE.
  - CONNECT NEW 400X150 SUPPLY AIR DUCT TO EXISTING SUPPLY AIR DUCT IN CEILING AND EXTEND TO NEW WALL GRILLE.
  - PROVIDE ALL DUCTWORK DOWNSTREAM OF TERMINAL EQUIPMENT (I.E. FAN COILS, HEAT PUMPS, V.A.V. BOXES AND FAN POWERED BOXES) EQUAL TO THE EQUIPMENT OUTLET SIZE (MINIMUM) OR LARGER AS INDICATED. WHERE OUTLET SIZES ARE ODD SIZES, INCREASE THE DUCT SIZE UP TO THE NEAREST EVEN SIZE (I.E. PROVIDE 350X350 FOR 318X318 OR 320X320 OUTLET). PROVIDE TRANSITION DUCTS AS REQUIRED.
  - PROVIDE DIFFUSER DUCT RUN-OUT THE SAME SIZE AS THE DIFFUSER INLET UNLESS INDICATED OTHERWISE.
  - PROVIDE 600X300 RETURN AIR GRILLES UNLESS NOTED OTHERWISE.
  - REMOVE AND RELOCATE EXISTING DIFFUSERS AS INDICATED. REMOVE ALL EXISTING FLEXIBLE DUCTWORK WHERE DIFFUSERS ARE EITHER REMOVED OR RELOCATED. PROVIDE AND INSTALL NEW FLEXIBLE DUCTS TO RELOCATED DIFFUSERS.
  - TEMPERATURE SENSORS ARE LOCATED TO AID IN PRICING ONLY AND ALL REQUIRED SENSORS MAY NOT BE SHOWN (REFER TO SPECIFICATIONS). COORDINATE FINAL LOCATION WITH THE INTERIOR DESIGNER WITHIN 1000mm OF LOCATION SHOWN. ALL RELOCATIONS OUTSIDE OF THIS RANGE SHALL BE REVIEWED WITH THE CONSULTANT.
  - INSTALL TEMPERATURE SENSORS AT NOMINALLY 1200mm A.F.F. ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
  - BALANCE THE AIR FLOW RATES EQUALLY BETWEEN ALL INTERIOR DIFFUSERS BASED ON THE MAXIMUM AIR FLOW RATE SHOWN FOR THE ASSOCIATED BY-PASS VAN BOX. (TYPICAL)
  - CLEAN PERIMETER INDUCTION UNITS AT THE COMPLETION OF CONSTRUCTION. CLEANING INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:  
1. REMOVE THE COVERS.  
2. VACUUM AND WIRE CLEAN ASSOCIATED COILS AND LINT SCREENS AS REQUIRED.  
3. CLEAN SUPPLY AIR NOZZLES WITH HIGH PRESSURE AIR AND STEAM.  
4. SET PRIMARY AIR VALVE BACK TO ORIGINAL LOCATION AND VERIFY AIR BALANCE.  
5. WASH INDUCTION UNIT COVERS AND INSTALL IN ORIGINAL LOCATION.
  - INSPECT AND VERIFY THE OPERATION OF CONTROL VALVES AND THERMOSTAT/TEMPERATURE SENSORS FOR PERIMETER INDUCTION UNITS. PROVIDE A WRITTEN REPORT IDENTIFYING ALL INOPERATIONAL OR DAMAGED CONTROL DEVICES AND PROVIDE AN ITEMIZED COST ASSOCIATED WITH REPAIR OR REPLACEMENT AS REQUIRED.
  - REFER TO DRAWING FOR ASSOCIATED AHU'S (AIR HANDLING UNITS) SERVING THE 5TH FLOOR:  
AHU-2 PERIMETER INDUCTION UNITS  
AHU-3 INTERIOR SOUTH CORE OPEN AREA BALCONY  
AHU-5 INTERIOR CENTER GIS/DATA LAB  
AHU-6 INTERIOR/PERIMETER ALONG LINK TO ROBART'S COMMONS  
AHU-7 INTERIOR, MAJORITY OF OPEN AREAS, NEW OFFICES AND COLLAB'S 507 AND 509
  - MODIFY EXISTING 200X200 DUCTWORK AS REQUIRED TO CENTER 200X200 DIFFUSERS IN DRYWALL BULKHEAD ABOVE GLAZING PANELS AS SHOWN.
  - MODIFY EXISTING 200X150 DUCTWORK AS REQUIRED TO CENTER 200X150 DIFFUSERS IN DRYWALL BULKHEAD ABOVE GLAZING PANELS AS SHOWN.

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No. Date Issue/Revision

**Robarts 5th Floor MDL Renovation**

Title:  
**5TH FLOOR NEW H.V.A.C. LAYOUT**

Project No.08086.009.MEAVD | Scale AS NOTED  
Drawing No.

**M-302**



superk™


	(continued)

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Project No.08086.009.MEAVD	Scale 1 : 100
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M 202

M-302

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1. EXISTING FIRE HOSE CABINET (F.H.C.) COMPLETE WITH 25'-0" (25M) HOSE TO REMAIN. (TYPICAL)
2. R-10'-0" - DENOTES THE ALLOWABLE 10'-0" (3M) SPRAY AT THE END OF THE FIRE HOSE. (TYPICAL).