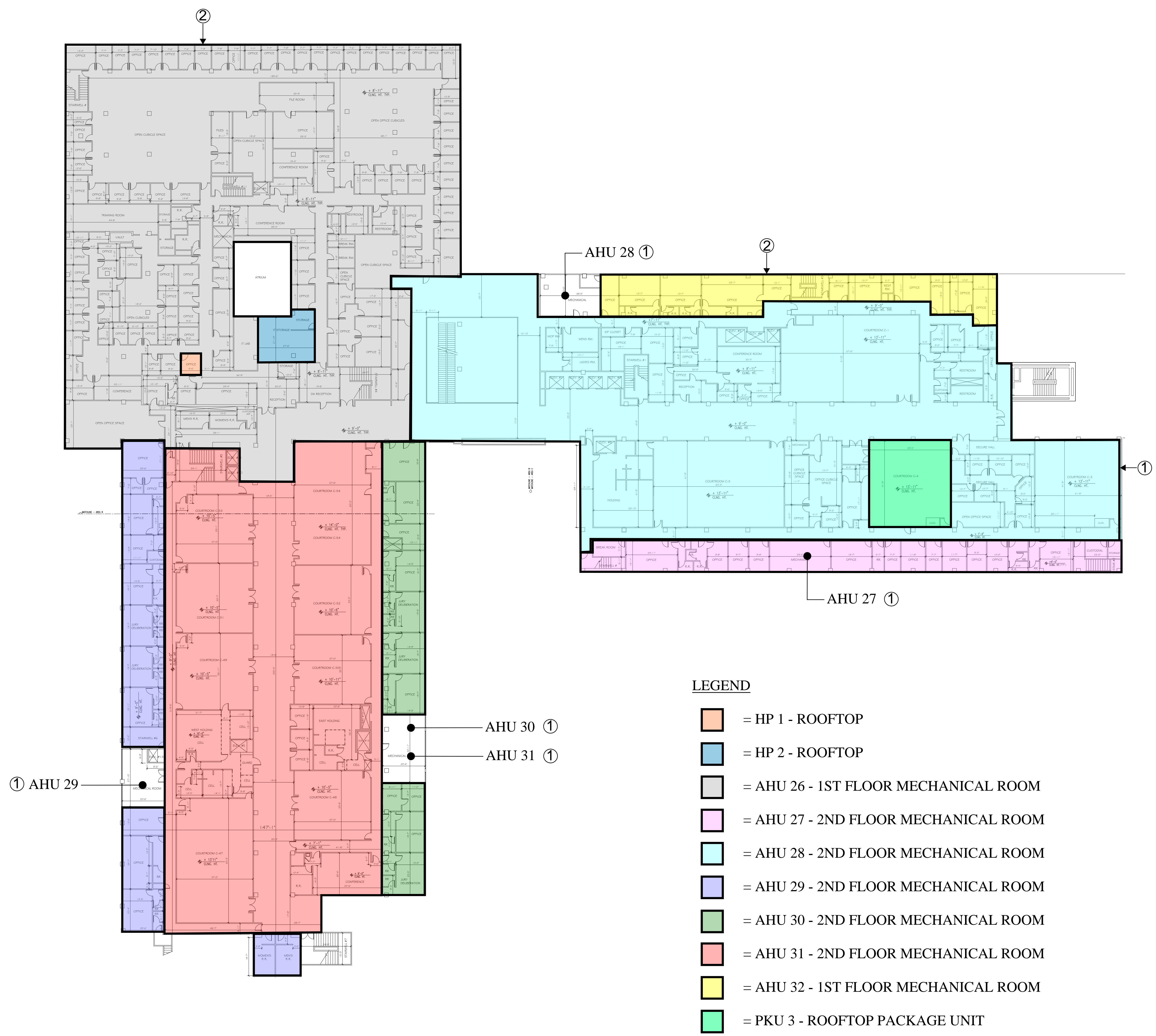


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- LEGEND**
- = HP 1 - ROOFTOP
 - = HP 2 - ROOFTOP
 - = AHU 26 - 1ST FLOOR MECHANICAL ROOM
 - = AHU 27 - 2ND FLOOR MECHANICAL ROOM
 - = AHU 28 - 2ND FLOOR MECHANICAL ROOM
 - = AHU 29 - 2ND FLOOR MECHANICAL ROOM
 - = AHU 30 - 2ND FLOOR MECHANICAL ROOM
 - = AHU 31 - 2ND FLOOR MECHANICAL ROOM
 - = AHU 32 - 1ST FLOOR MECHANICAL ROOM
 - = PKU 3 - ROOFTOP PACKAGE UNIT

1 2ND FLOOR - AIRFLOW DIAGRAM
SCALE: N.T.S.

REFERENCE SHEET NOTES

1. AHU SERVES SECOND FLOOR ONLY
2. SERVES SECOND FLOOR IN ADDITION TO FIRST FLOOR. CUT IN DAMPERS TO KEEP 1ST FLOOR OPERATIONAL WHILE ISOLATING SECOND FLOOR.

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OF CALIFORNIA

CENTRAL JUSTICE CENTER
700 W. CIVIC CENTER DRIVE
SANTA ANA, CA 92701

**FIRE LIFE SAFETY
MODERNIZATION
FIRST FLOOR**

MARK	DATE	DESCRIPTION
	08/31/21	100% SD
	11/05/21	100% DD
	12/17/21	50% CD
	2/11/22	STATE FIRE MARSHAL PERMIT

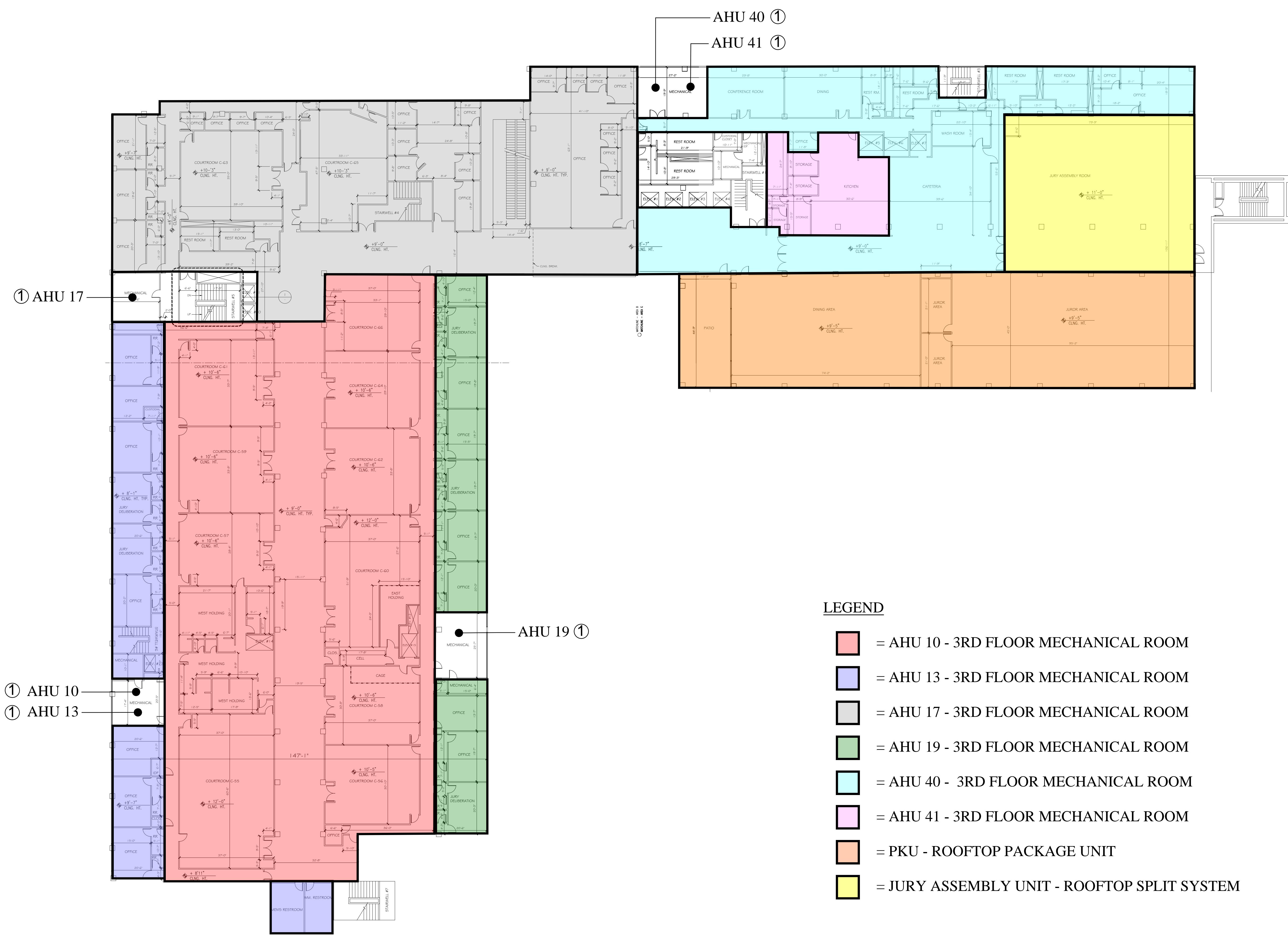
SOBE PROJECT NO: 2101067.1
DATE: 12/17/21
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CHECKED BY:
APPROVED BY: CM

SHEET TITLE
**SECOND FLOOR AIR ZONING
PLAN**

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

G-03
SHEET OF -

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- LEGEND**
- = AHU 10 - 3RD FLOOR MECHANICAL ROOM
 - = AHU 13 - 3RD FLOOR MECHANICAL ROOM
 - = AHU 17 - 3RD FLOOR MECHANICAL ROOM
 - = AHU 19 - 3RD FLOOR MECHANICAL ROOM
 - = AHU 40 - 3RD FLOOR MECHANICAL ROOM
 - = AHU 41 - 3RD FLOOR MECHANICAL ROOM
 - = PKU - ROOFTOP PACKAGE UNIT
 - = JURY ASSEMBLY UNIT - ROOFTOP SPLIT SYSTEM

1 3RD FLOOR - AIRFLOW DIAGRAM
SCALE: N.T.S.

REFERENCE SHEET NOTES

1. AHU SERVES THIRD FLOOR ONLY

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**FIRE LIFE SAFETY
MODERNIZATION
FIRST FLOOR**

ISSUE		
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	11/05/21	100% DD
	12/17/21	50% CD
	2/11/22	STATE FIRE MARSHAL PERMIT

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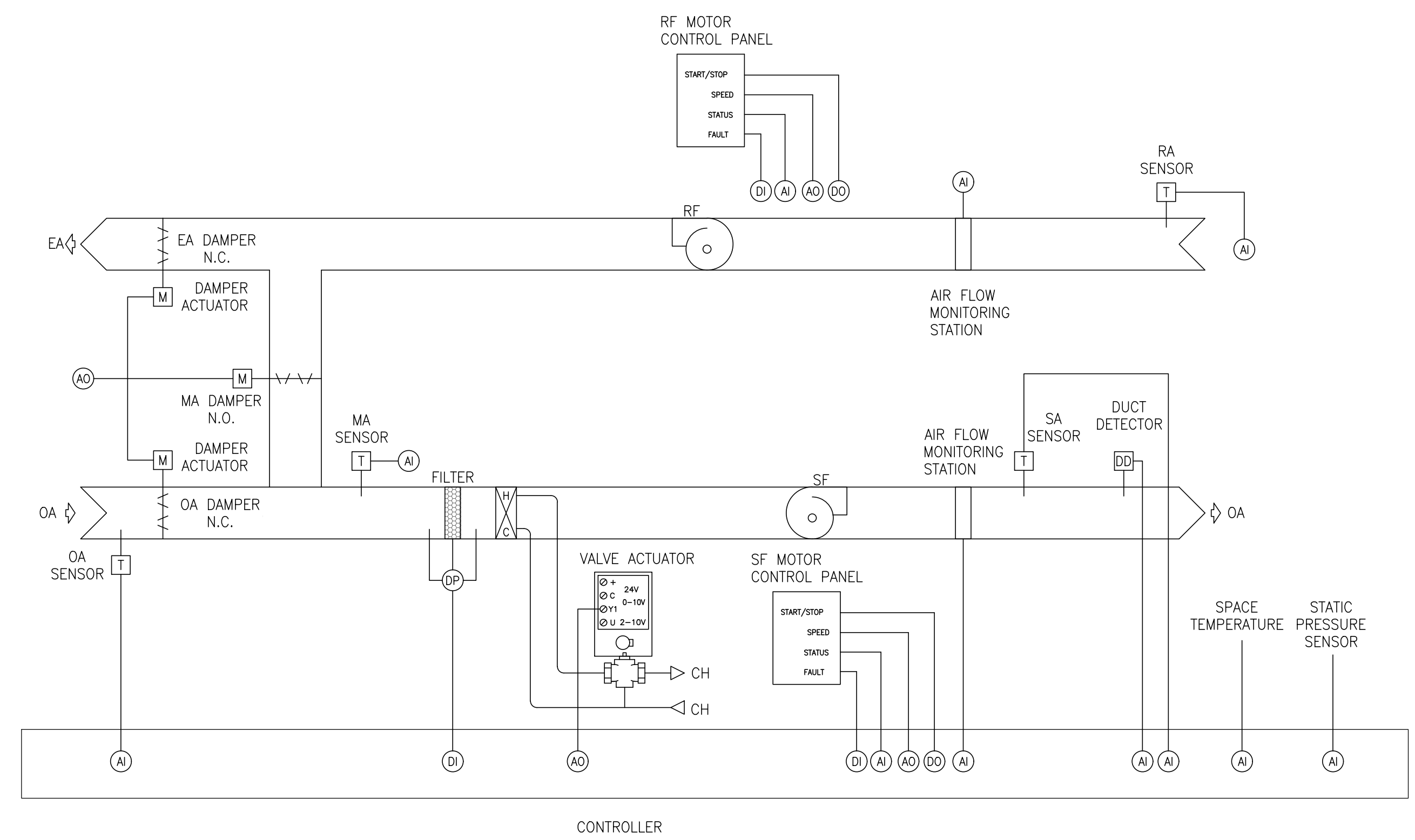
SHEET TITLE
**THIRD FLOOR AIR ZONING
PLAN**

SCALE: AS NOTED
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DDC POINTS LIST								
POINT I.D.	POINT TYPE	CONTROL DEVICE	CONTROL DESCRIPTION	CONTROL DEVICE LOCATION	AI	AO	DI	DO
AHU - TYP OF FLOORS 4-11								
AHU-X SA TEMP	AI	TEMPERATURE SENSOR	SA TEMPERATURE	SA DUCT	9			
AHU-X SP SENSOR	AI	PRESSURE SENSOR	STATIC PRESSURE SENSOR	SA DUCT	9			
AHU-X SF S/S	DO	RELAY	SF FAN START/STOP	VFD				9
AHU-X SF FAN STATUS	DI	VFD	SF FAN STATUS ON/OFF	VFD			9	
AHU-X SF FAN SPEED SPT	AO	VFD	SF FAN SPEED SETPOINT	VFD		9		
AHU-X SF FAN SPEED	AI	VFD	SF FAN SPEED	VFD	9			
AHU-X CHW VALVE SPT	AO	CONTROL VALVE	CHILLED WATER VALVE SETPOINT	INTERIOR		9		
AHU-X CHW VALVE	AI	CONTROL VALVE	CHILLED WATER VALVE POSITION	INTERIOR	9			
AHU-X HHW VALVE SPT	AO	CONTROL VALVE	HEATING HOT WATER VALVE SETPOINT	INTERIOR		9		
AHU-X HHW VALVE	AI	CONTROL VALVE	HEATING HOT WATER VALVE POSITION	INTERIOR	9			
AHU-X FILTER STATUS	AI	DP PRESSURE SENSOR	AIR FILTER STATUS	AHU UNIT	9			
AHU-X OSA AIRFLOW	AI	AIRFLOW SENSOR	OUTSIDE AIR AIRFLOW (CFM)	AHU UNIT	9			
AHU-X OUTSIDE AIR TEMP	AI	TEMPERATURE SENSOR	OSA TEMPERATURE	AHU UNIT	9			
AHU-X OSA DAMPER SPT	AO	DAMPER ACTUATOR	OUTSIDE AIR DAMPER SETPOINT	AHU UNIT		9		
AHU-X OSA DAMPER POSITION	AI	DAMPER ACTUATOR	OUTSIDE AIR DAMPER POSITION	AHU UNIT	9			
AHU-X MA DAMPER SPT	AO	DAMPER ACTUATOR	MIXED AIR DAMPER SETPOINT	AHU UNIT		9		
AHU-X MA DAMPER POSITION	AI	DAMPER ACTUATOR	MIXED AIR DAMPER POSITION	AHU UNIT	9			
AHU-X RA DAMPER SPT	AI	DAMPER ACTUATOR	RETURN AIR DAMPER SETPOINT	AHU UNIT		9		
AHU-X RA DAMPER POSITION	AO	DAMPER ACTUATOR	RETURN AIR DAMPER POSITION	AHU UNIT	9			
AHU-X ALARM	DI	CONTROL	GENERAL ALARM	AHU UNIT			9	
AHU-X BLDG SP	AI	PRESSURE SENSOR	BLDG SP	INTERIOR	9			
RF-X S/S	DO	RELAY	RF START/STOP	VFD				9
RF-X FAN STATUS	DI	VFD	RF FAN STATUS ON/OFF	VFD			9	
RF-X FAN SPEED SPT	AO	VFD	RF FAN SPEED SETPOINT	VFD		9		
RF-X FAN SPEED	AI	VFD	RF FAN SPEED	VFD	9			
AHU-SMOKE	DI	SMOKE DETECTOR	DUCT SMOKE DETECTOR	SUPPLY				9
SUB-TOTAL:					117	63	36	18
TOTAL:					234			



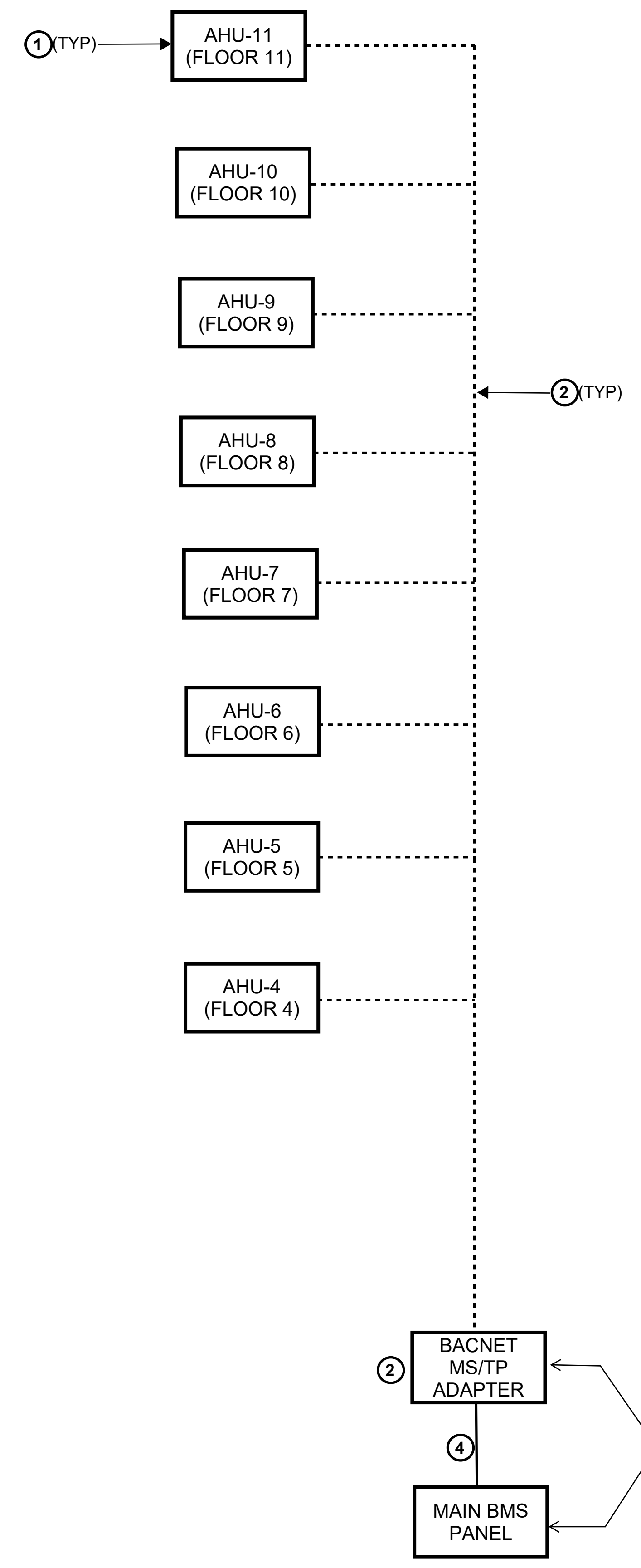
2 AHU SCHEMATIC

SUMMARY OF WORK

- A. INSTALL NEW EQUIPMENT CONTROLLERS FOR EACH AHU, SERVING FLOORS 4 THRU 11.
- B. REUSE EXISTING CONTROL DEVICES (ACTUATORS, SENSORS, ETC.) AND CONTROL WIRING THAT EXISTS BACK TO CURRENT EQUIPMENT CONTROLLERS. CONTRACTOR SHALL PROVIDE A FULL DEFICIENCY REPORT, DOCUMENTING ANY FAULTY CONTROL DEVICES (ACTUATORS, SENSORS, ETC.) DISCOVERED AS PART OF THIS CONTROLS UPGRADE.
- C. INSTALL NEW CONTROL WIRING BETWEEN NEW EQUIPMENT CONTROLLERS, REUSING EXISTING CONDUIT PATHWAYS BETWEEN FLOORS.
- D. CREATE NEW GRAPHICS FOR EACH AHU, INTEGRATED INTO NEW TRIDIUM NIAGARA CONTROL SYSTEM.
- E. PROVIDE UPDATED AHU POINTS, PER POINTS LIST ON THIS SHEET. POINTS SHALL BE TRENDED PER JCC STANDARDS.
- F. TRANSFER EXISTING SEQUENCE OF OPERATIONS, FOR EACH AHU, TO NEW CONTROL SYSTEM.

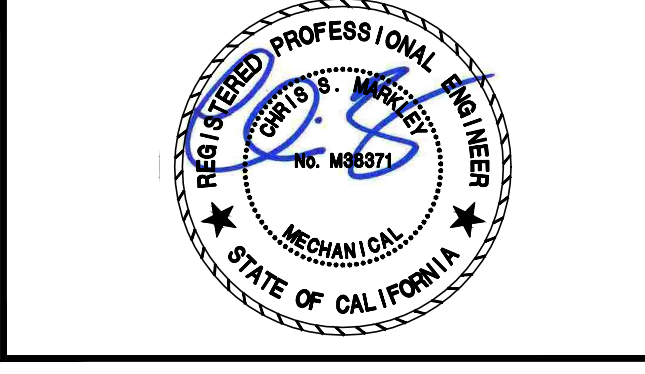
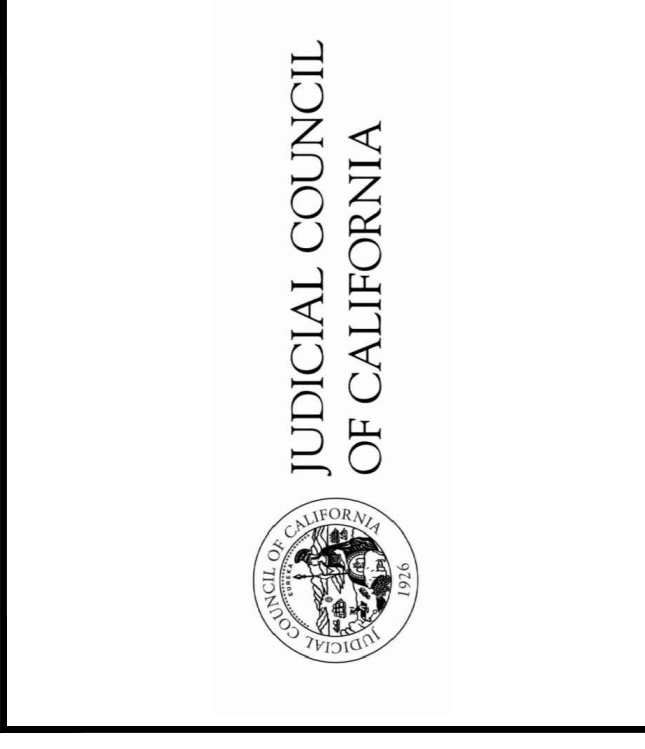
1 SUMMARY OF WORK

FLOORS 4 - 11 CONTROLS ARCHITECTURE DIAGRAM



REFERENCE NOTES

1. INSTALL NEW EQUIPMENT CONTROLLER, LOCATED ON MECHANICAL ROOM WALLS.
2. INSTALL NEW CONTROL WIRING BETWEEN NEW EQUIPMENT CONTROLLERS. RE-USE EXISTING CONDUIT WHERE APPLICABLE. MECHANICAL ROOMS ARE STACKED ON TOP OF EACH OTHER FOR FLOORS 4 - 11.
3. INSTALL MS/TP ADAPTER IN BASEMENT.
4. INSTALL BACNET COMMUNICATION WIRING TO BMS PANEL.



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SHEET TITLE
CONTROLS SCHEMATICS AND POINTS LIST

SCALE: AS NOTED
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M-7.3
SHEET OF -

