

SC DEPARTMENT OF ADMINISTRATION - DIVISION
OF FACILITIES MANAGEMENT AND PROPERTY
SERVICES

1100 GERVAIS ST, COLUMBIA, SC 29208

SC STATE HOUSE - VAV REPLACEMENT, HVAC
CONTROLS AND AHU NO. 1 RE-BUILD

D50-6103-LC
12/10/25
ISSUED FOR: CONSTRUCTION

Prepared by:



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owner

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seals/signature



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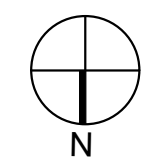
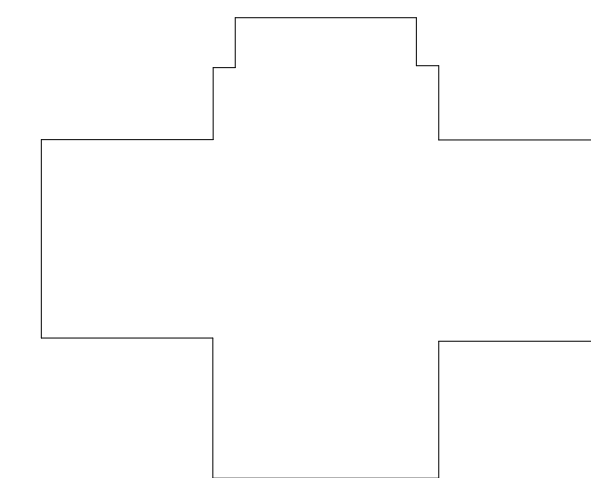
CONSTRUCTION

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key plan



sheet title

SUB BASEMENT
DEMOLITION PLAN

sheet number

M1.0

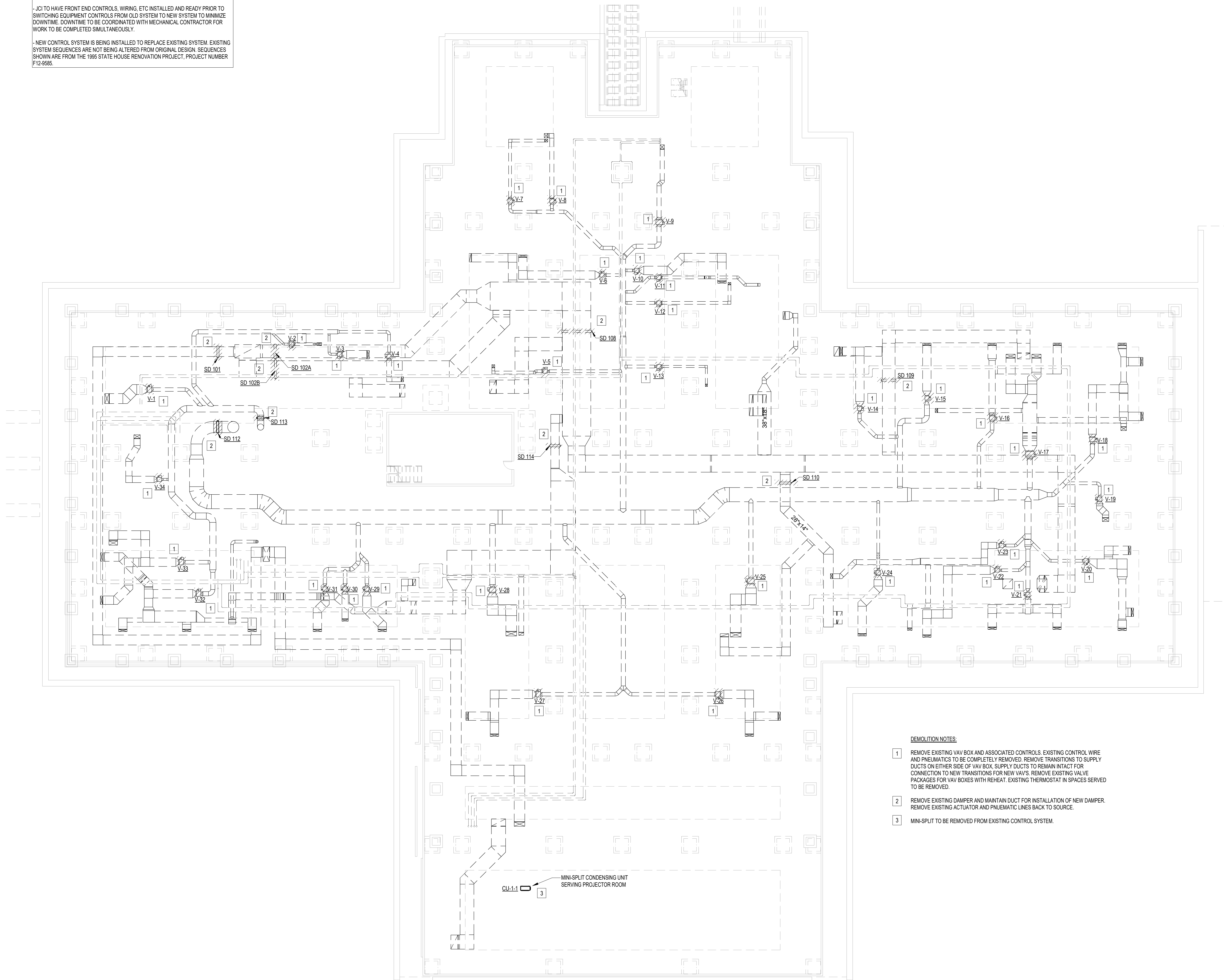
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checked by	Checker

GENERAL NOTES:

- CONTRACTOR TO COORDINATE REMOVAL AND REPLACEMENT OF VAV BOXES AND DAMPERS WITH DOWNTIME ASSOCIATED WITH AH-1 REBUILD. CONTRACTOR TO COORDINATE REPLACEMENT OF VAV BOXES AT ANY OTHER TIME WITH OWNER TO REDUCE IMPACT ON OCCUPIED SPACES. BUILDING TO REMAIN OPERABLE THROUGHOUT CONSTRUCTION.

- JCI TO HAVE FRONT END CONTROLS, WIRING, ETC INSTALLED AND READY PRIOR TO SWITCHING EQUIPMENT CONTROLS FROM OLD SYSTEM TO NEW SYSTEM TO MINIMIZE DOWNTIME. DOWNTIME TO BE COORDINATED WITH MECHANICAL CONTRACTOR FOR WORK TO BE COMPLETED SIMULTANEOUSLY.

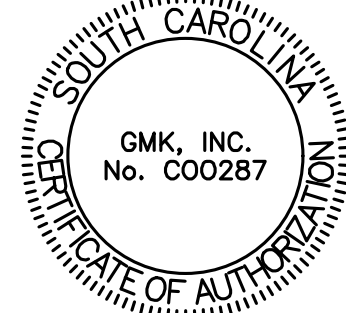
- NEW CONTROL SYSTEM IS BEING INSTALLED TO REPLACE EXISTING SYSTEM. EXISTING SYSTEM SEQUENCES ARE NOT BEING ALTERED FROM ORIGINAL DESIGN. SEQUENCES SHOWN ARE FROM THE 1995 STATE HOUSE RENOVATION PROJECT, PROJECT NUMBER P12-9585.



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SEALS/SIGNATURE

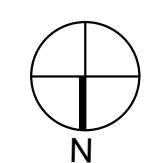
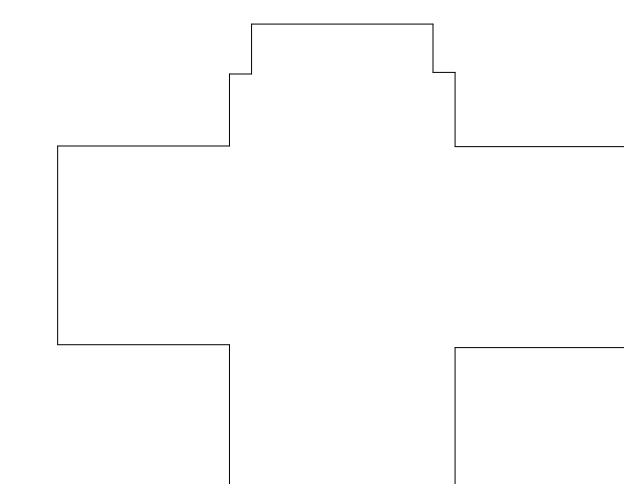


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KEY PLAN

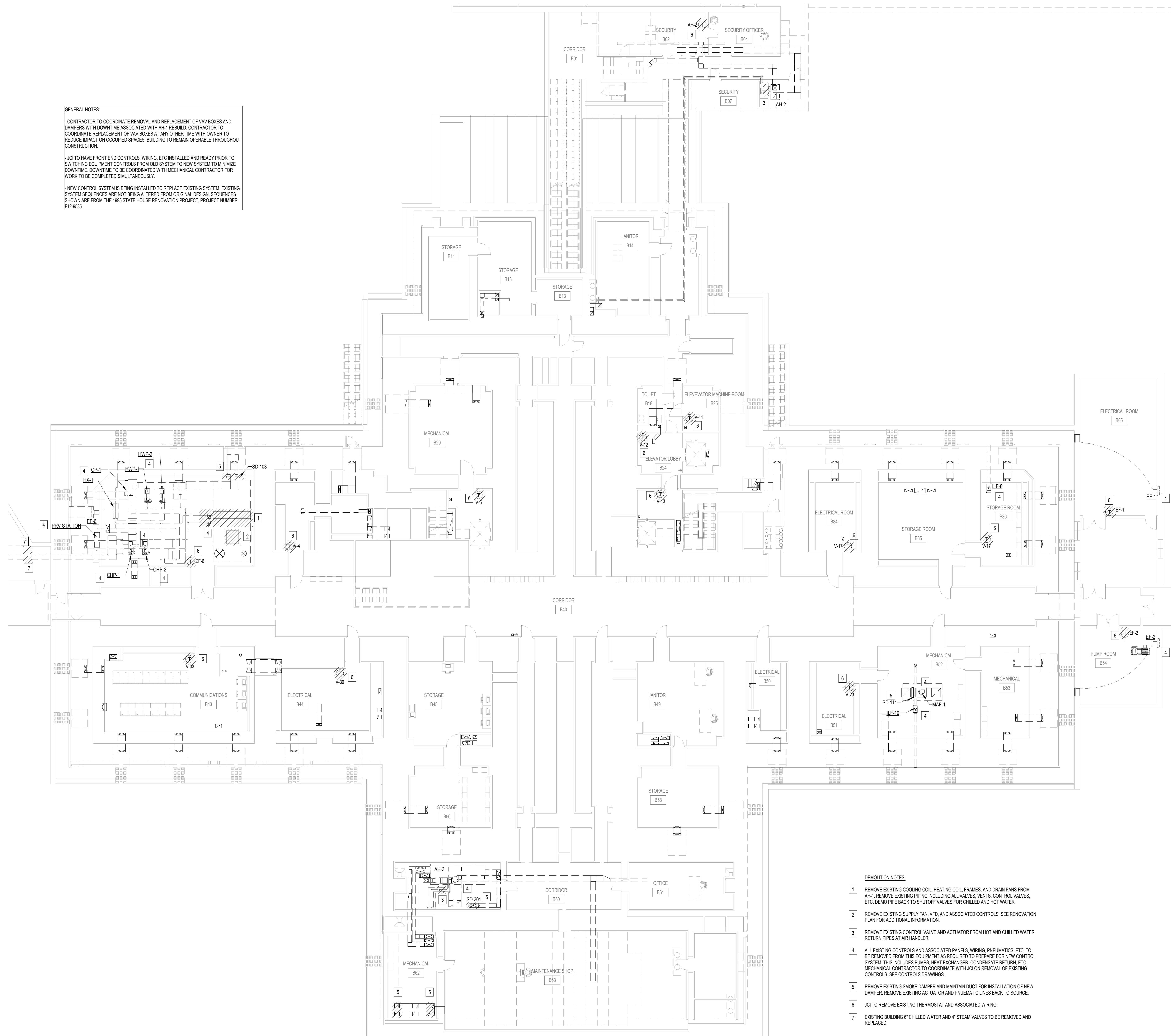


SHEET TITLE
BASEMENT DEMOLITION
PLAN

SHEET NUMBER

M1.1

DRAWN BY
AUTHOR
CHECKED BY
CHECKER



GENERAL NOTES

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DEMOLITION NOTES

1. REMOVE EXISTING COOLING COIL, HEATING COIL, FRAMES, AND DRAIN PANS FROM AH-1. REMOVE EXISTING PIPING INCLUDING ALL VALVES, VENTS, CONTROL VALVES, ETC. DEMO PIPE BACK TO SHUTOFF VALVES FOR CHILLED AND HOT WATER.
2. REMOVE EXISTING SUPPLY FAN, VFD, AND ASSOCIATED CONTROLS. SEE RENOVATION PLAN FOR ADDITIONAL INFORMATION.
3. REMOVE EXISTING CONTROL VALVE AND ACTUATOR FROM HOT AND CHILLED WATER RETURN PIPES AT AIR HANDLER.
4. ALL EXISTING CONTROLS AND ASSOCIATED PANELS, WIRING, PNEUMATICS, ETC. TO BE REMOVED FROM THIS EQUIPMENT AS REQUIRED TO PREPARE FOR NEW CONTROL SYSTEM. THIS INCLUDES PUMPS, HEAT EXCHANGER, CONDENSATE RETURN, ETC. MECHANICAL CONTRACTOR TO COORDINATE WITH JCI ON REMOVAL OF EXISTING CONTROLS. SEE CONTROLS DRAWINGS.
5. REMOVE EXISTING SMOKE DAMPER AND MAINTAIN DUCT FOR INSTALLATION OF NEW DAMPER. REMOVE EXISTING ACTUATOR AND PNEUMATIC LINES BACK TO SOURCE.
6. JCI TO REMOVE EXISTING THERMOSTAT AND ASSOCIATED WIRING.
7. EXISTING BUILDING 6" CHILLED WATER AND 4" STEAM VALVES TO BE REMOVED AND REPLACED.

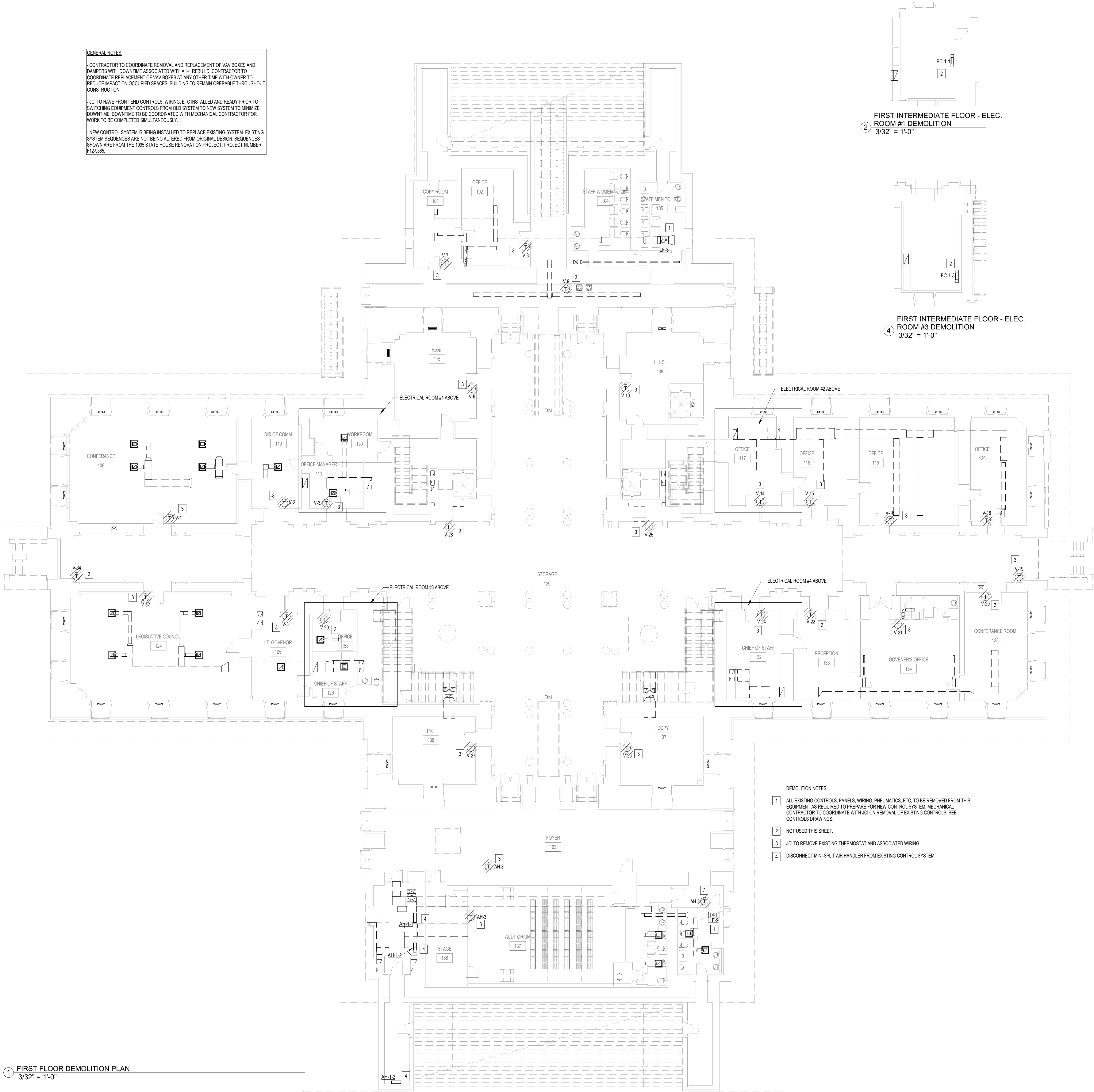
1 BASEMENT DEMOLITION PLAN
3/32" = 1'-0"

GENERAL NOTES:

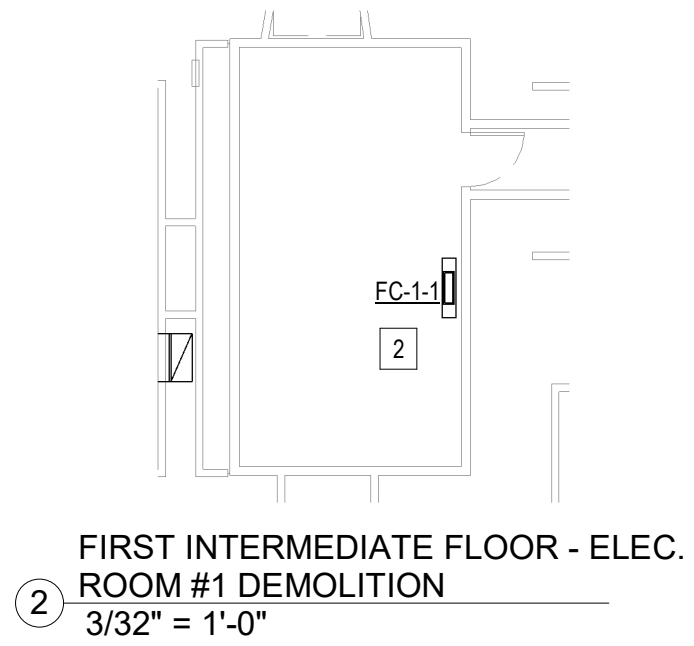
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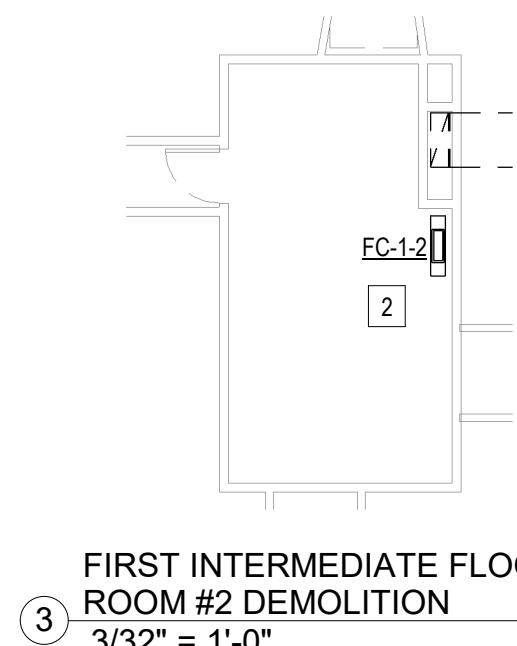
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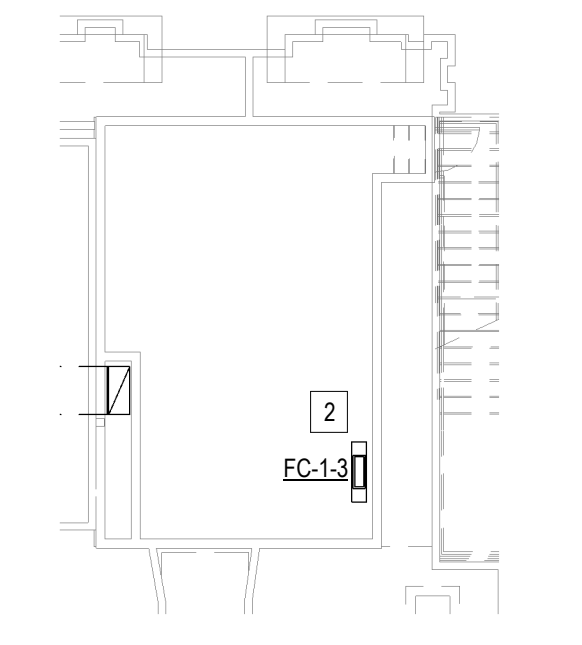
1 FIRST FLOOR DEMOLITION PLAN
3/32" = 1'-0"



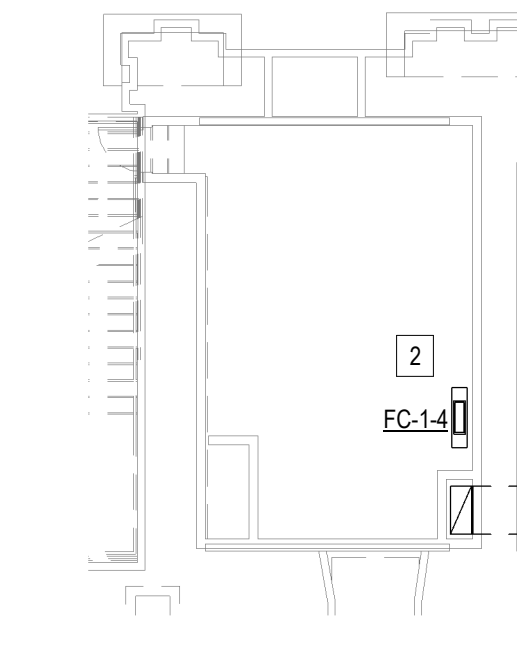
FIRST INTERMEDIATE FLOOR - ELEC.
ROOM #1 DEMOLITION
3/32" = 1'-0"



FIRST INTERMEDIATE FLOOR - ELEC.
ROOM #2 DEMOLITION
3/32" = 1'-0"



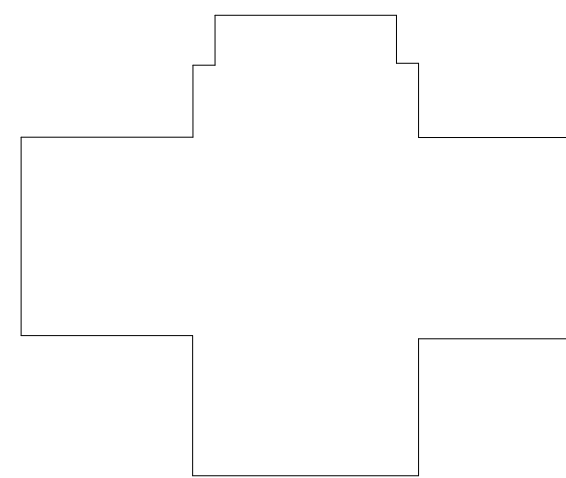
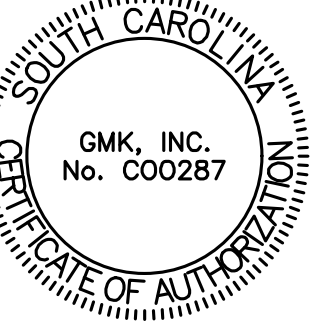
FIRST INTERMEDIATE FLOOR - ELEC.
ROOM #3 DEMOLITION
3/32" = 1'-0"



FIRST INTERMEDIATE FLOOR - ELEC.
ROOM #4 DEMOLITION
3/32" = 1'-0"

DEMOLITION NOTES:

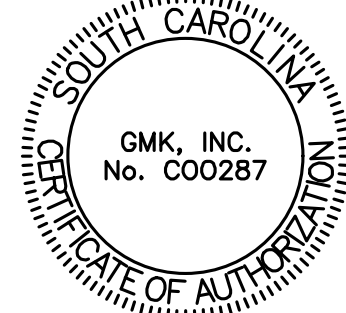
- 1 ALL EXISTING CONTROLS, PANELS, WIRING, PNEUMATICS, ETC. TO BE REMOVED FROM THIS EQUIPMENT AS REQUIRED TO PREPARE FOR NEW CONTROL SYSTEM. MECHANICAL CONTRACTOR TO COORDINATE WITH JCI ON REMOVAL OF EXISTING CONTROLS. SEE CONTROLS DRAWINGS.
- 2 NOT USED THIS SHEET.
- 3 JCI TO REMOVE EXISTING THERMOSTAT AND ASSOCIATED WIRING.
- 4 DISCONNECT MINI-SPLIT AIR HANDLER FROM EXISTING CONTROL SYSTEM.



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SEAL/SIGNATURE

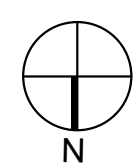
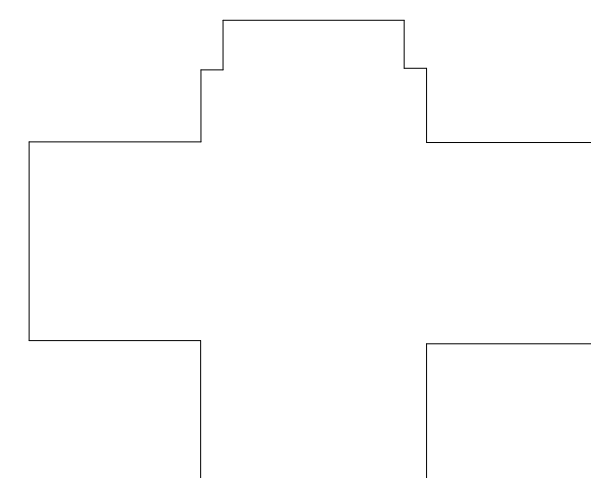


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KEY PLAN



SHEET TITLE
SECOND FLOOR
DEMOLITION PLAN

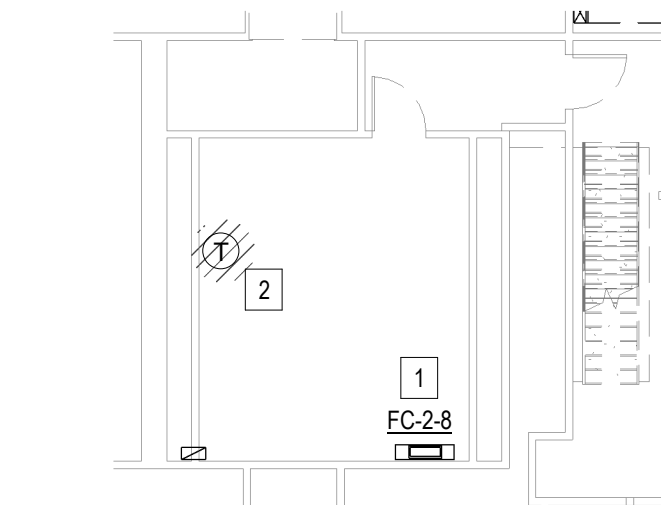
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M1.3

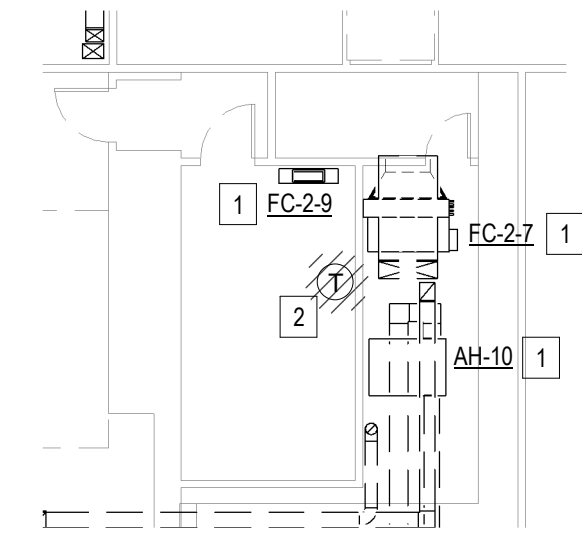
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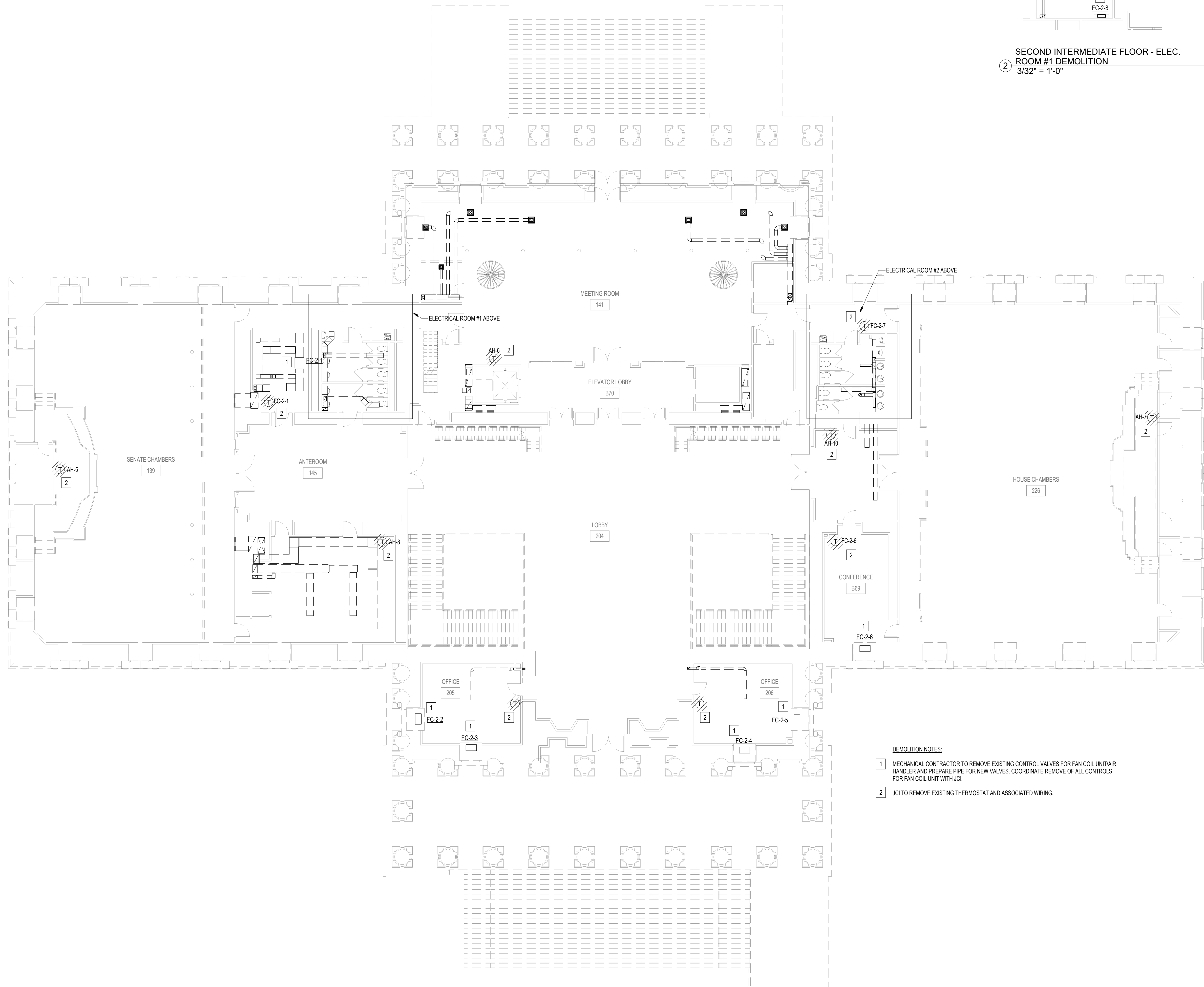
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- JO TO HAVE FRONT END CONTROLS, WIRING, ETC INSTALLED AND READY PRIOR TO SWITCHING EQUIPMENT CONTROLS FROM OLD SYSTEM TO NEW SYSTEM TO MINIMIZE DOWNTIME. DOWNTIME TO BE COORDINATED WITH MECHANICAL CONTRACTOR FOR WORK TO BE COMPLETED SIMULTANEOUSLY.
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SECOND INTERMEDIATE FLOOR - ELEC.
ROOM #1 DEMOLITION
3/32" = 1'-0"



SECOND INTERMEDIATE FLOOR - ELEC.
ROOM #2 DEMOLITION
3/32" = 1'-0"



DEMOLITION NOTES:

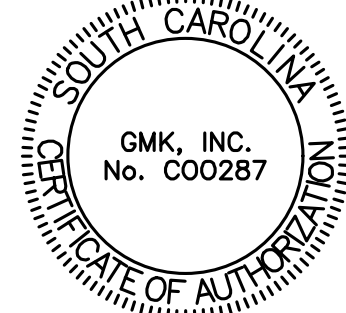
- MECHANICAL CONTRACTOR TO REMOVE EXISTING CONTROL VALVES FOR FAN COIL UNIT/AIR HANDLER AND PREPARE PIPE FOR NEW VALVES. COORDINATE REMOVE OF ALL CONTROLS FOR FAN COIL UNIT WITH JO.
- JO TO REMOVE EXISTING THERMOSTAT AND ASSOCIATED WIRING.

1 SECOND FLOOR DEMOLITION PLAN
3/32" = 1'-0"

owner
SC DEPARTMENT OF
ADMINISTRATION - DIVISION
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AND PROPERTY SERVICES

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seals/signature

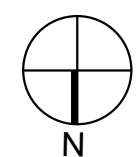
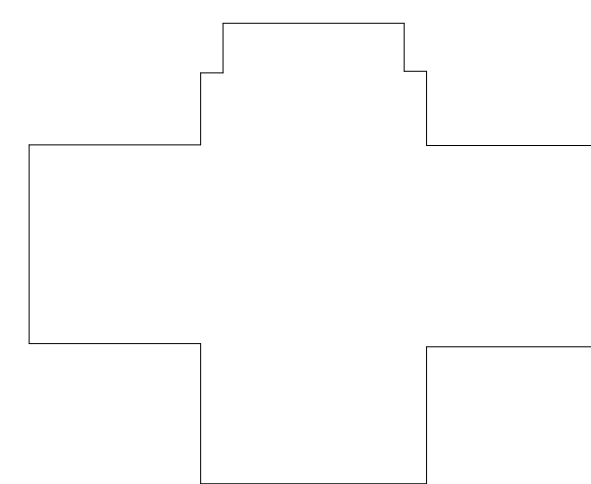


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key plan



sheet title
THIRD FLOOR DEMOLITION
PLAN

sheet number

M1.4

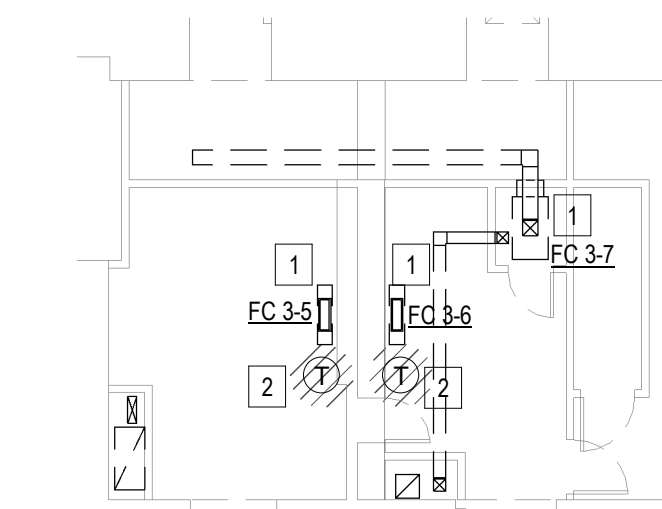
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GENERAL NOTES

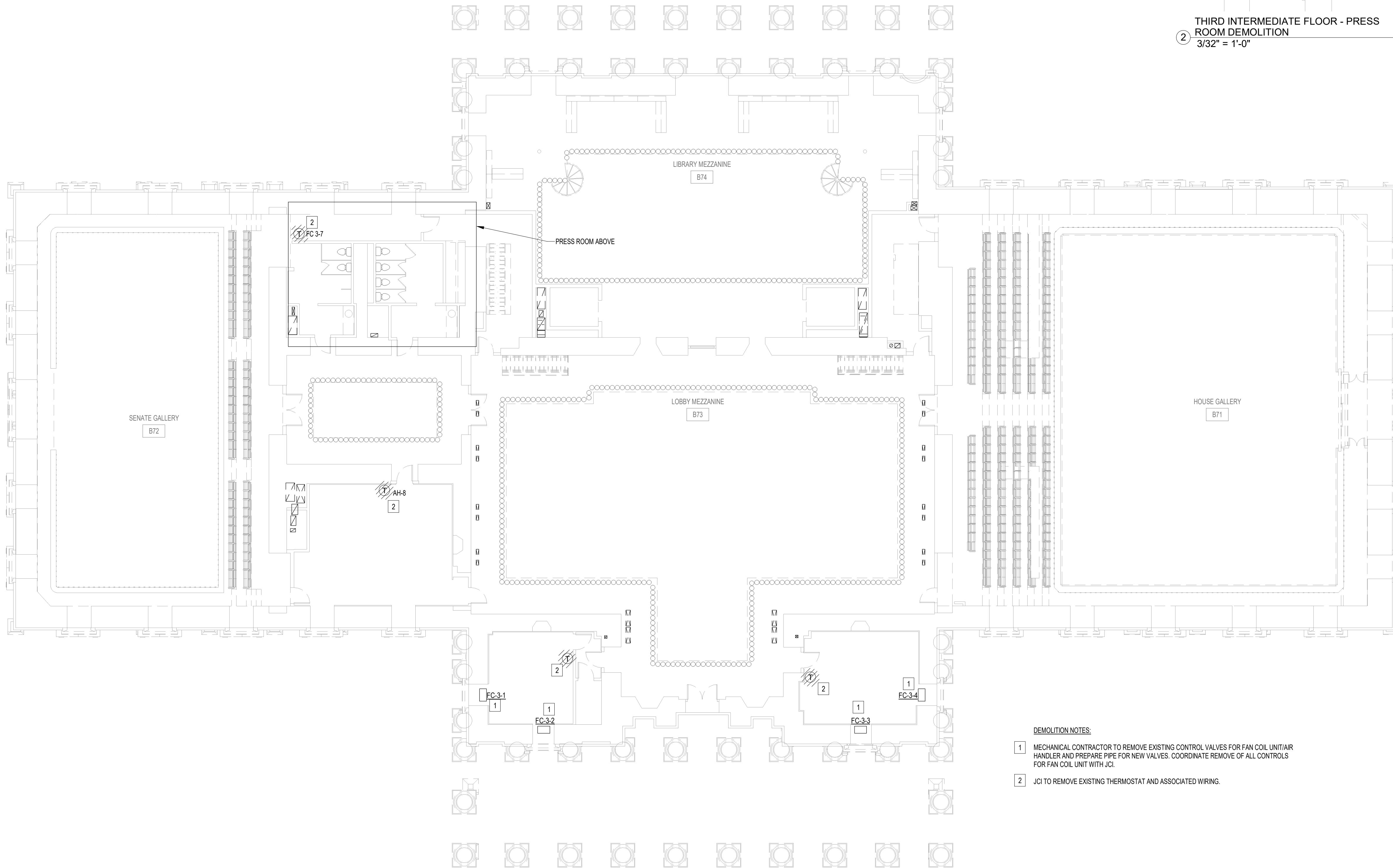
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THIRD INTERMEDIATE FLOOR - PRESS
ROOM DEMOLITION
3/32" = 1'-0"



DEMOLITION NOTES:

- MECHANICAL CONTRACTOR TO REMOVE EXISTING CONTROL VALVES FOR FAN COIL UNIT/AIR HANDLER AND PREPARE PIPE FOR NEW VALVES. COORDINATE REMOVE OF ALL CONTROLS FOR FAN COIL UNIT WITH JCI.
- JCI TO REMOVE EXISTING THERMOSTAT AND ASSOCIATED WIRING.

1 THIRD FLOOR DEMOLITION PLAN
3/32" = 1'-0"

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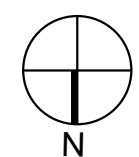
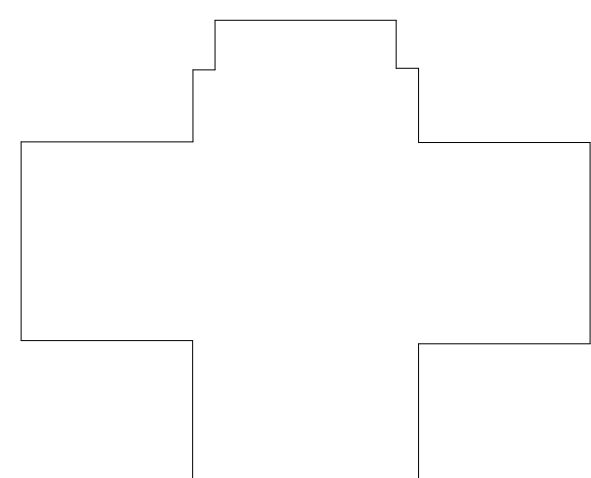


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KEY PLAN



SHEET TITLE
ATTIC DEMOLITION PLAN

SHEET NUMBER

M1.5

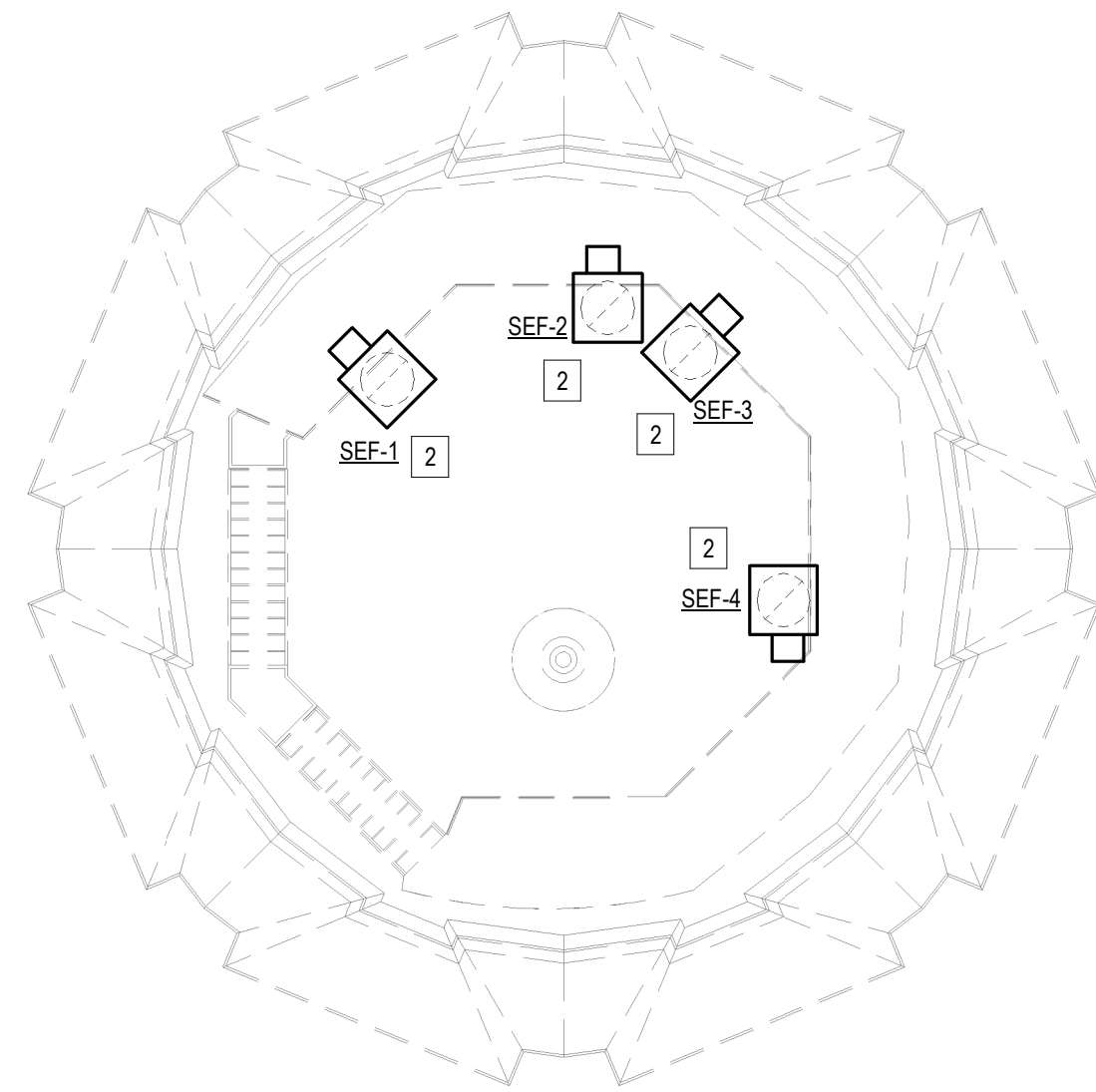
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GENERAL NOTES:

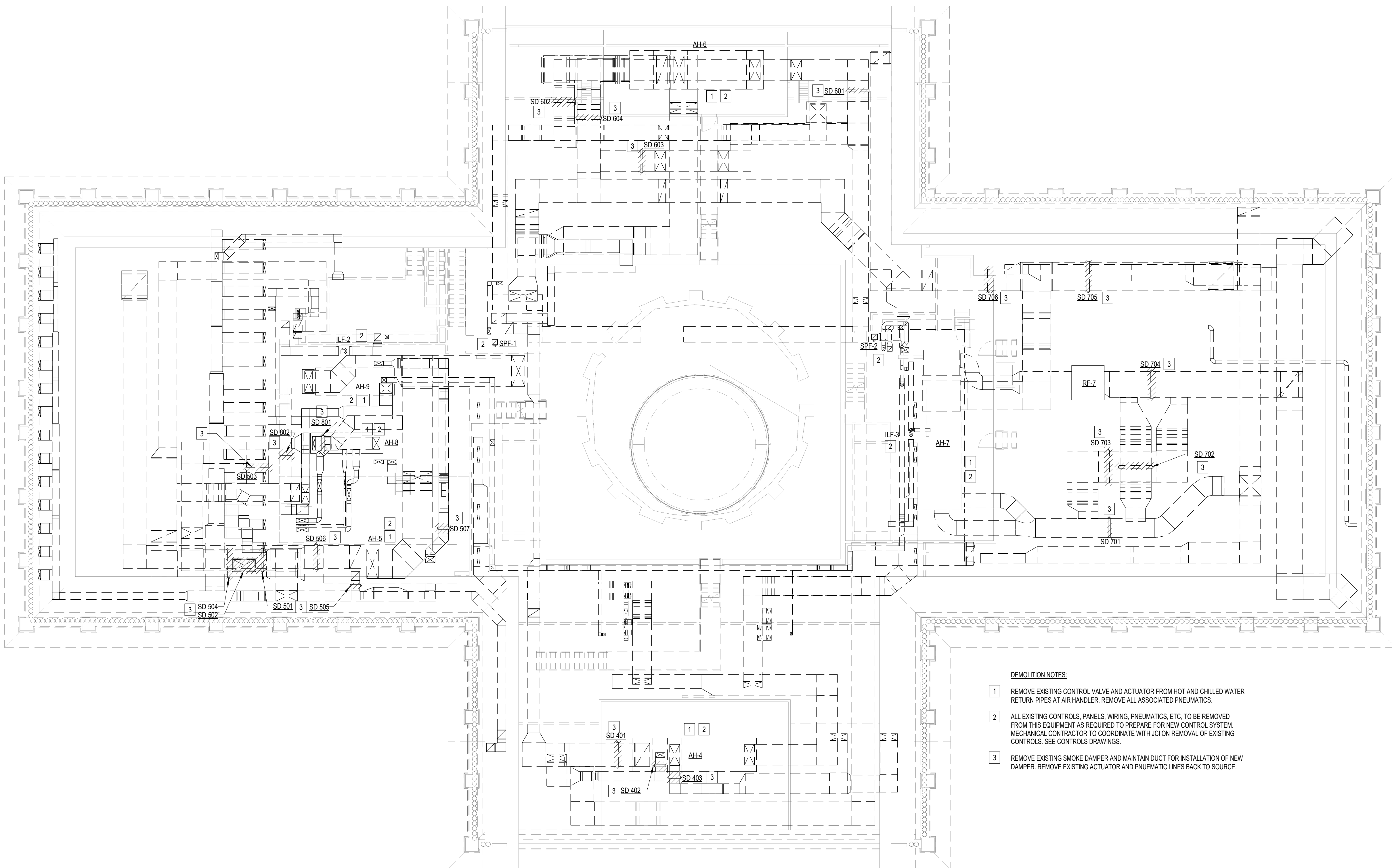
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3. NEW CONTROL SYSTEM IS BEING INSTALLED TO REPLACE EXISTING SYSTEM. EXISTING SYSTEM SEQUENCES ARE NOT BEING ALTERED FROM ORIGINAL DESIGN. SEQUENCES SHOWN ARE FROM THE 1986 STATE HOUSE RENOVATION PROJECT, PROJECT NUMBER F12-9585.



2 1ST LEVEL CUPOLA DEMOLITION PLAN
3/32" = 1'-0"



DEMOLITION NOTES:

1. REMOVE EXISTING CONTROL VALVE AND ACTUATOR FROM HOT AND CHILLED WATER RETURN PIPES AT AIR HANDLER. REMOVE ALL ASSOCIATED PNEUMATICS.
2. ALL EXISTING CONTROLS, PANELS, WIRING, PNEUMATICS, ETC. TO BE REMOVED FROM THIS EQUIPMENT AS REQUIRED TO PREPARE FOR NEW CONTROL SYSTEM. MECHANICAL CONTRACTOR TO COORDINATE WITH JCI ON REMOVAL OF EXISTING CONTROLS. SEE CONTROLS DRAWINGS.
3. REMOVE EXISTING SMOKE DAMPER AND MAINTAIN DUCT FOR INSTALLATION OF NEW DAMPER. REMOVE EXISTING ACTUATOR AND PNEUMATIC LINES BACK TO SOURCE.

1 ATTIC FLOOR DEMOLITION PLAN
3/32" = 1'-0"

owner

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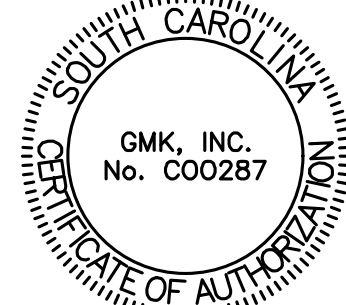
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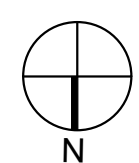
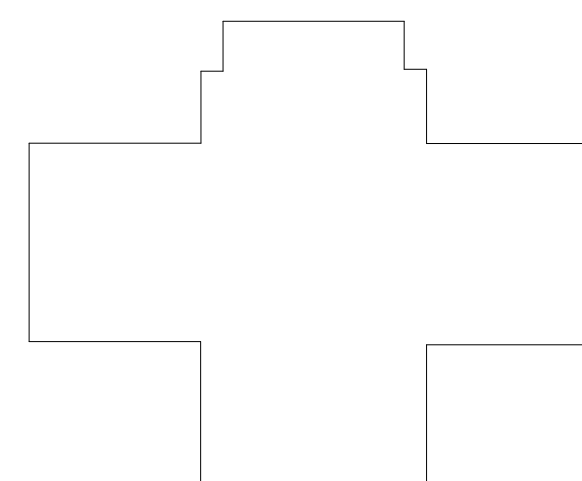
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number	item	date
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key plan



sheet title

SUB BASEMENT
RENOVATION PLAN

sheet number

M2.0

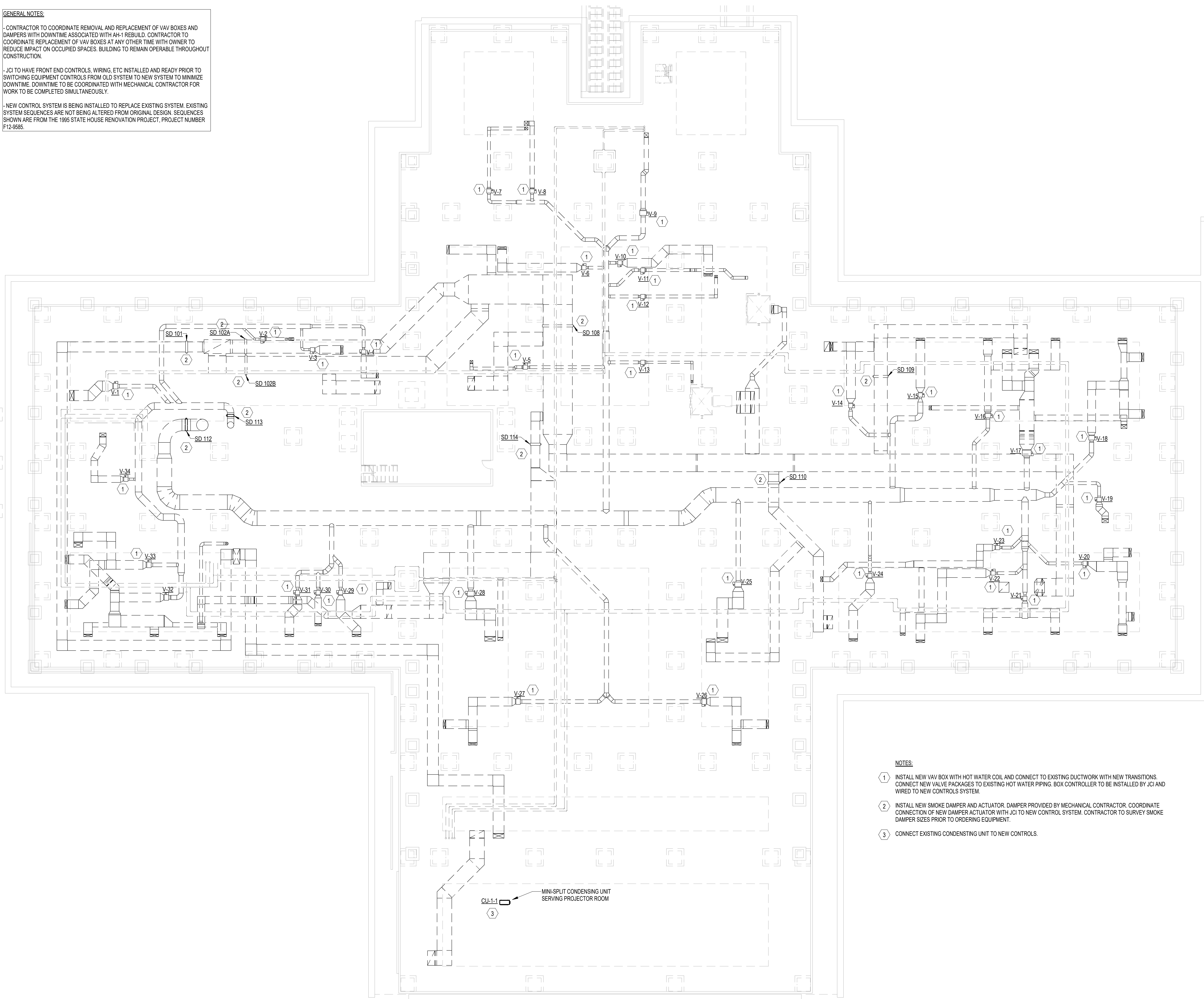
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checked by	Checker

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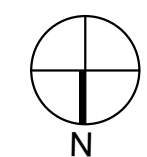
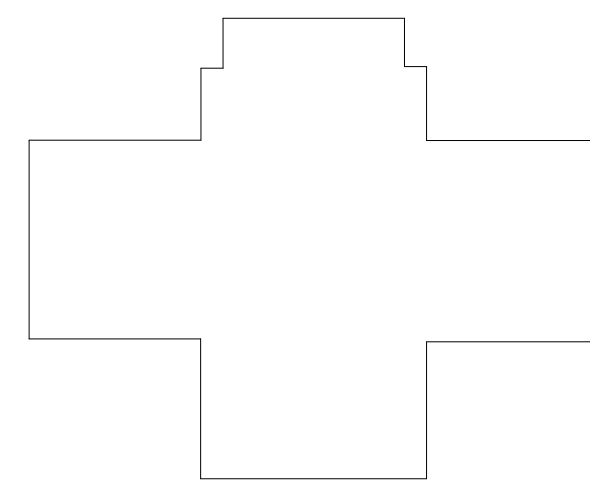
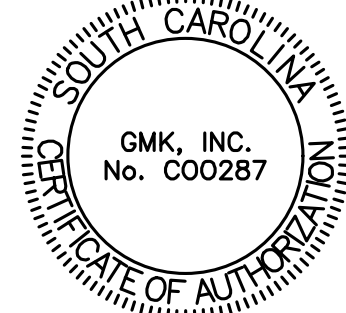


NOTES:

1. INSTALL NEW VAV BOX WITH HOT WATER COIL AND CONNECT TO EXISTING DUCTWORK WITH NEW TRANSITIONS. CONNECT NEW VALVE PACKAGES TO EXISTING HOT WATER PIPING. BOX CONTROLLER TO BE INSTALLED BY JCI AND WIRED TO NEW CONTROLS SYSTEM.
2. INSTALL NEW SMOKE DAMPER AND ACTUATOR. DAMPER PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE CONNECTION OF NEW DAMPER ACTUATOR WITH JCI TO NEW CONTROL SYSTEM. CONTRACTOR TO SURVEY SMOKE DAMPER SIZES PRIOR TO ORDERING EQUIPMENT.
3. CONNECT EXISTING CONDENSING UNIT TO NEW CONTROLS.

CU-1-1
MINI-SPLIT CONDENSING UNIT
SERVING PROJECTOR ROOM

1 SUB BASEMENT RENOVATION PLAN
3/32" = 1'-0"



GENERAL NOTES:

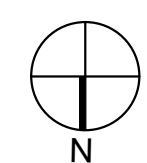
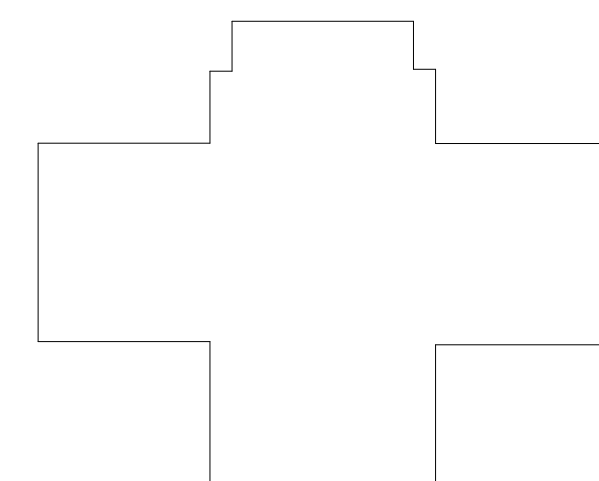
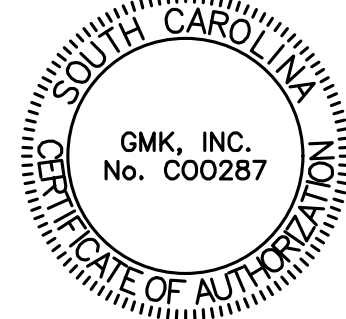
- CONTRACTOR TO COORDINATE REMOVAL AND REPLACEMENT OF VAV BOXES AND DAMPERS WITH DOWNTIME ASSOCIATED WITH AH-1 REBUILD. CONTRACTOR TO COORDINATE REPLACEMENT OF VAV BOXES AT ANY OTHER TIME WITH OWNER TO REDUCE IMPACT ON OCCUPIED SPACES. BUILDING TO REMAIN OPERABLE THROUGHOUT CONSTRUCTION.

- JCI TO HAVE FRONT END CONTROLS, WIRING, ETC INSTALLED AND READY PRIOR TO SWITCHING EQUIPMENT CONTROLS FROM OLD SYSTEM TO NEW SYSTEM TO MINIMIZE DOWNTIME. DOWNTIME TO BE COORDINATED WITH MECHANICAL CONTRACTOR FOR WORK TO BE COMPLETED SIMULTANEOUSLY.

- NEW CONTROL SYSTEM IS BEING INSTALLED TO REPLACE EXISTING SYSTEM. EXISTING SYSTEM SEQUENCES ARE NOT BEING ALTERED FROM ORIGINAL DESIGN. SEQUENCES SHOWN ARE FROM THE 1995 STATE HOUSE RENOVATION PROJECT, PROJECT NUMBER P12-9585.

RENOVATION NOTES:

- 1) INSTALL NEW CHILLED AND HOT WATER COILS IN AIR HANDLER. PROVIDE A NEW STAINLESS STEEL DRAIN PAN UNDER BOTH COILS. INSTALL ALL ASSOCIATED PIPING, VALVES, STRAINERS, TEST PORTS, AUTOMATIC FLOW VALVE, ETC AND CONNECT TO EXISTING PIPING. CONTRACTOR TO VERIFY COIL DIMENSIONS PRIOR TO ORDERING. MECHANICAL CONTRACTOR TO INSTALL NEW CONTROL VALVES PROVIDED BY JCI CONTROLS. CONTRACTOR TO FIELD VERIFY VALVE SIZES, COIL DIMENSIONS AND COIL CONNECTION SIZES PRIOR TO ORDERING EQUIPMENT. JCI TO INSTALL ALL NEW EQUIPMENT CONTROLS FOR AH-1 AND CONNECT TO NEW BUILDING MANAGEMENT SYSTEM.
- 2) INSTALL NEW SUPPLY FAN WALL WHERE EXISTING FAN WAS REMOVED. PROVIDE WITH A NEW VFD WITH FUSED DISCONNECT. FAN WALL TO BE PROVIDED WITH "PLUG AND PLAY" STYLE WIRING SIZED AND SHIPPED FROM FACTOR FOR CONNECTION OF FANS TO NEW VFD CONTROLLER. JCI TO CONNECT FAN WALL TO NEW BUILDING MANAGEMENT SYSTEM. CONTRACTOR TO SEAL NEW FAN WALL TO EXISTING AIR HANDLER WALL.
- 3) INSTALL NEW SMOKE DAMPER AND ACTUATOR. DAMPER PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE CONNECTION OF NEW DAMPER ACTUATOR WITH JCI TO NEW CONTROL SYSTEM. CONTRACTOR TO SURVEY SMOKE DAMPER SIZES PRIOR TO ORDERING EQUIPMENT.
- 4) MECHANICAL CONTRACTOR TO INSTALL NEW CONTROL VALVES. PROVIDED BY JCI CONTROLS. FOR AH-2 AND AH-3. COORDINATE WITH JCI CONTROLS FOR CONNECTION. VERIFY SIZE OF VALVES PRIOR TO ORDERING EQUIPMENT. JCI TO INSTALL ALL NEW EQUIPMENT CONTROLS AND CONNECT TO NEW BUILDING MANAGEMENT SYSTEM.
- 5) JCI TO INSTALL NEW THERMOSTAT AND CONNECT TO EXISTING/NEW EQUIPMENT WITH NEW WIRING WHERE POSSIBLE. EXISTING WIRE MAY BE REUSED WHERE WIRE IS IN GOOD CONDITION.
- 6) JCI TO PROVIDE NEW CONTROLS FOR THIS EQUIPMENT. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR.
- 7) INSTALL NEW VERTICAL FLOOR MOUNTED FAN COIL UNIT AGAINST WALL. ALLOW SPACE FOR PIPING TO DROP INTO PIPE CABINET. PROVIDE WITH OVERSIZED CABINET TO HOUSE CONDENSATE PUMP. ROUTE COPPER CONDENSATE LINE FROM PUMP ALONGSIDE CHILLED AND HOT WATER PIPING AS SHOWN. ALL PIPING TO BE COMPLETELY INSULATED.
- 8) CONNECT NEW CHILLED AND HOT WATER PIPING TO EXISTING 6" PIPES IN MECHANICAL ROOM USING LIVE HOT TAPS.
- 9) INSTALL NEW FAN COIL UNIT ABOVE CEILING IN HALLWAY. CONNECT TO EXISTING CHILLED AND HOT WATER PIPES USING HOT TAPS. ROUTE FULLY INSULATED COPPER CONDENSATE PIPE TO MOP SINK IN JANITOR CLOSET USING EXISTING PENETRATIONS IN STONE WALL.
- 10) MECHANICAL CONTRACTOR TO INSTALL NEW 6" CHILLED WATER AND 4" STEAM BUILDING CONTROL VALVES PROVIDED BY JCI. COORDINATE WITH JCI CONTROLS FOR CONNECTION. VERIFY SIZE OF VALVES PRIOR TO ORDERING.

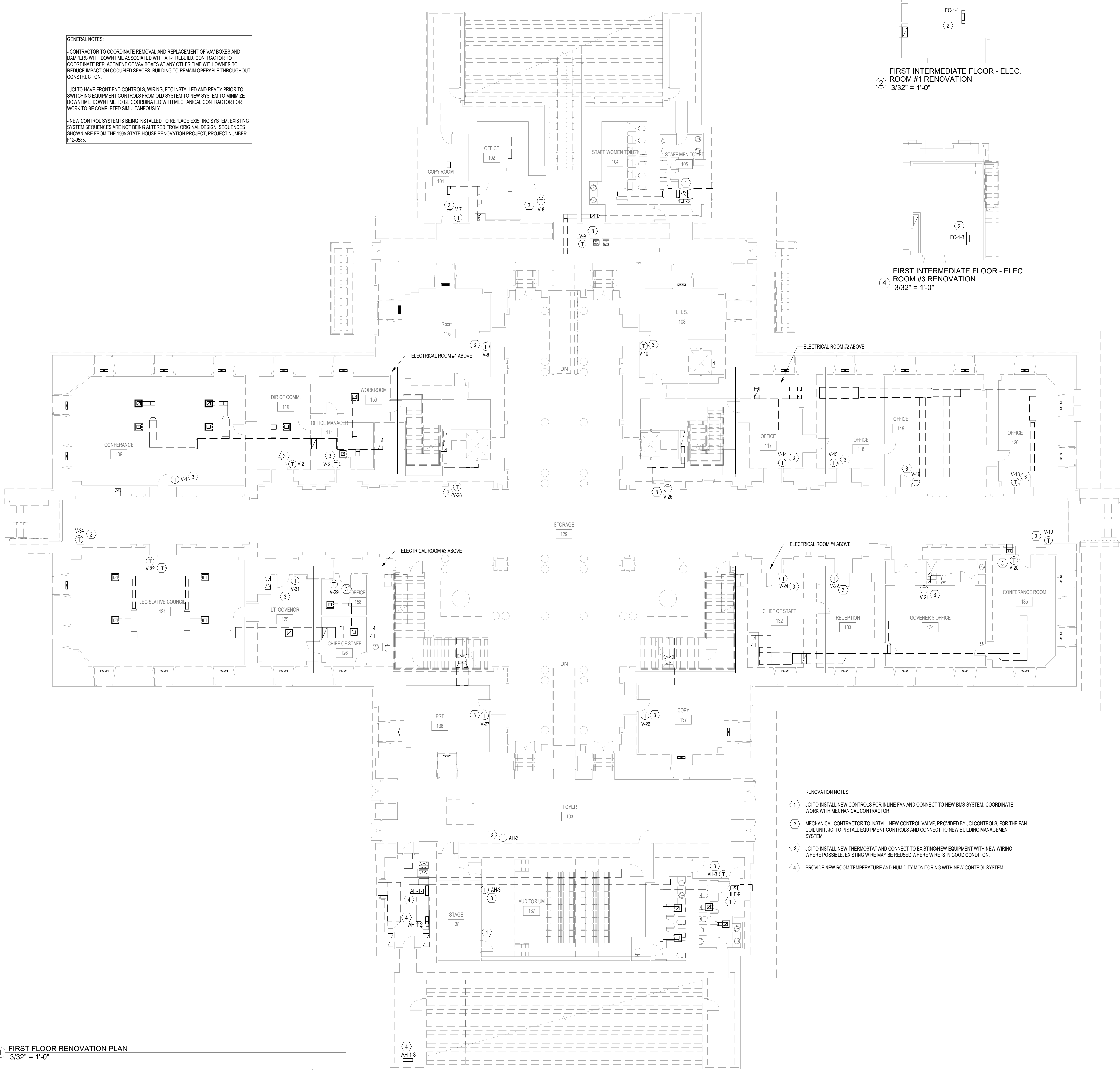


GENERAL NOTES

1. CONTRACTOR TO COORDINATE REMOVAL AND REPLACEMENT OF VAV BOXES AND DAMPERS WITH DOWNTIME ASSOCIATED WITH AH-1 REBUILD. CONTRACTOR TO COORDINATE REPLACEMENT OF VAV BOXES AT ANY OTHER TIME WITH OWNER TO REDUCE IMPACT ON OCCUPIED SPACES. BUILDING TO REMAIN OPERABLE THROUGHOUT CONSTRUCTION.

2. JCI TO HAVE FRONT END CONTROLS, WIRING, ETC INSTALLED AND READY PRIOR TO SWITCHING EQUIPMENT CONTROLS FROM OLD SYSTEM TO NEW SYSTEM TO MINIMIZE DOWNTIME. DOWNTIME TO BE COORDINATED WITH MECHANICAL CONTRACTOR FOR WORK TO BE COMPLETED SIMULTANEOUSLY.

3. NEW CONTROL SYSTEM IS BEING INSTALLED TO REPLACE EXISTING SYSTEM. EXISTING SYSTEM SEQUENCES ARE NOT BEING ALTERED FROM ORIGINAL DESIGN. SEQUENCES SHOWN ARE FROM THE 1995 STATE HOUSE RENOVATION PROJECT, PROJECT NUMBER F12-6685.



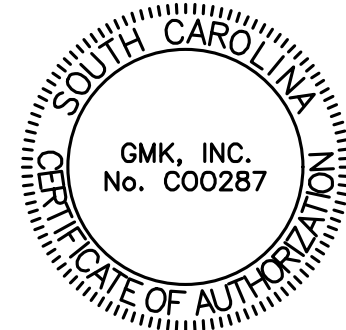
RENOVATION NOTES

1. JCI TO INSTALL NEW CONTROLS FOR INLINE FAN AND CONNECT TO NEW BMS SYSTEM. COORDINATE WORK WITH MECHANICAL CONTRACTOR.
2. MECHANICAL CONTRACTOR TO INSTALL NEW CONTROL VALVE, PROVIDED BY JCI CONTROLS, FOR THE FAN COIL UNIT. JCI TO INSTALL EQUIPMENT CONTROLS AND CONNECT TO NEW BUILDING MANAGEMENT SYSTEM.
3. JCI TO INSTALL NEW THERMOSTAT AND CONNECT TO EXISTING/NEW EQUIPMENT WITH NEW WIRING WHERE POSSIBLE. EXISTING WIRE MAY BE REUSED WHERE WIRE IS IN GOOD CONDITION.
4. PROVIDE NEW ROOM TEMPERATURE AND HUMIDITY MONITORING WITH NEW CONTROL SYSTEM.

owner
**SC DEPARTMENT OF
ADMINISTRATION - DIVISION
OF FACILITIES MANAGEMENT
AND PROPERTY SERVICES**

project name
**SC STATE HOUSE - VAV
REPLACEMENT, HVAC CONTROLS
AND AHU NO. 1 RE-BUILD**
project number
JOB NO. D50-6103-LC

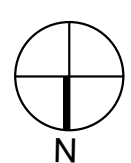
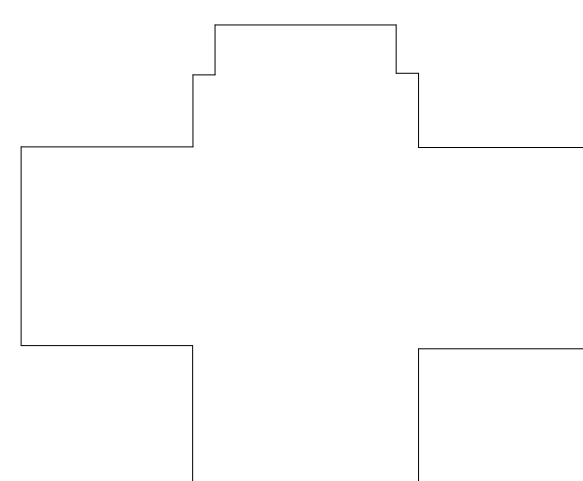
seals/signature



issued for
CONSTRUCTION

date
12/10/25
number item date

key plan



sheet title
**SECOND FLOOR
RENOVATION PLAN**

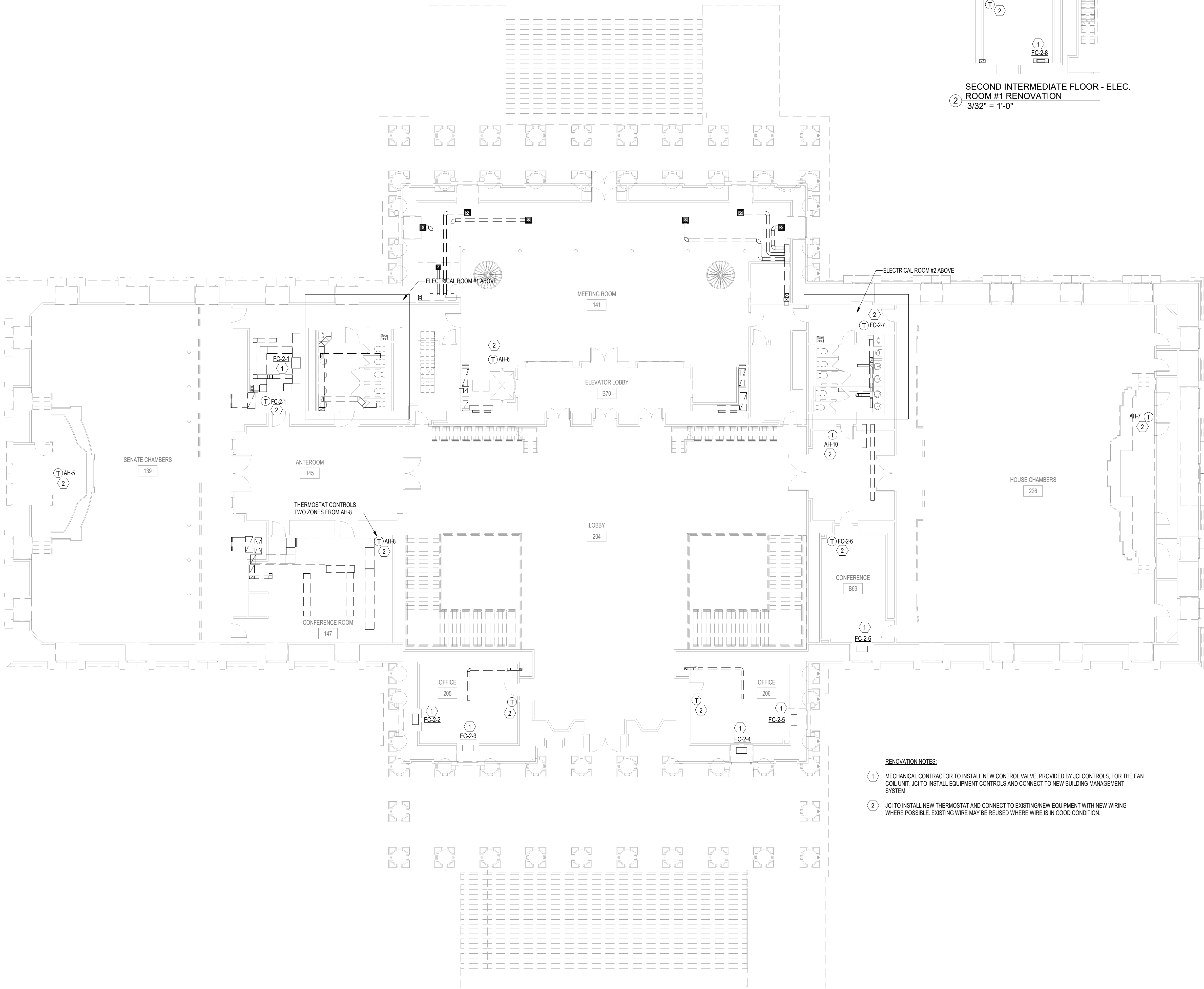
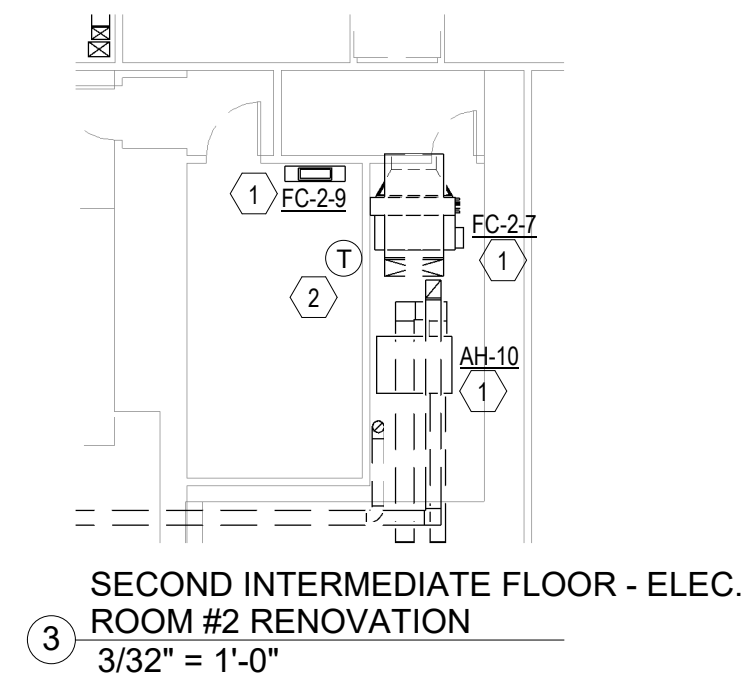
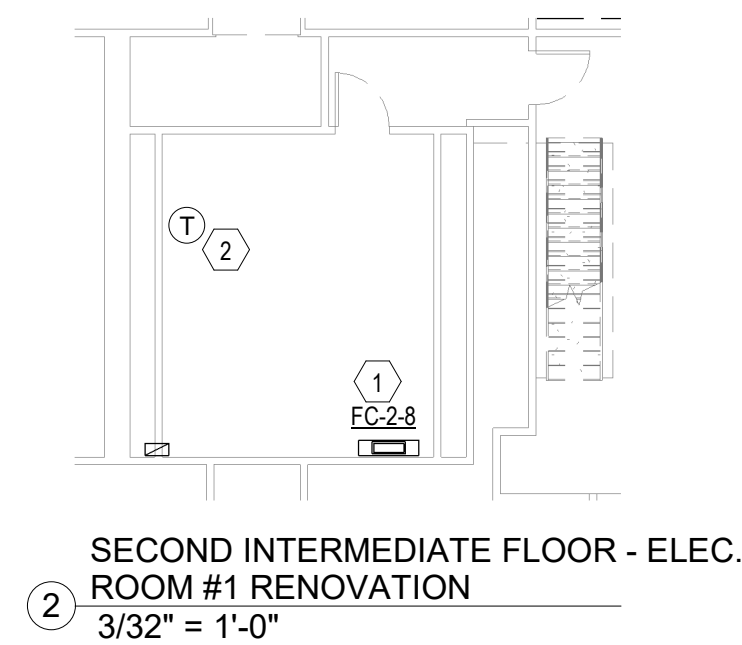
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M2.3
drawn by Author
checked by Checker

GENERAL NOTES:

- CONTRACTOR TO COORDINATE REMOVAL AND REPLACEMENT OF VAV BOXES AND DAMPERS WITH DOWNTIME ASSOCIATED WITH AH-1 REBUILD. CONTRACTOR TO COORDINATE REPLACEMENT OF VAV BOXES AT ANY OTHER TIME WITH OWNER TO REDUCE IMPACT ON OCCUPIED SPACES. BUILDING TO REMAIN OPERABLE THROUGHOUT CONSTRUCTION.

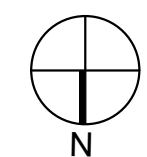
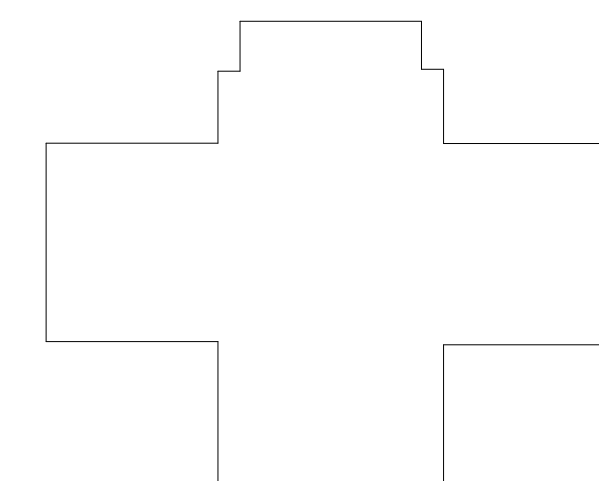
- JCI TO HAVE FRONT END CONTROLS, WIRING, ETC INSTALLED AND READY PRIOR TO SWITCHING EQUIPMENT CONTROLS FROM OLD SYSTEM TO NEW SYSTEM TO MINIMIZE DOWNTIME. DOWNTIME TO BE COORDINATED WITH MECHANICAL CONTRACTOR FOR WORK TO BE COMPLETED SIMULTANEOUSLY.

- NEW CONTROL SYSTEM IS BEING INSTALLED TO REPLACE EXISTING SYSTEM. EXISTING SYSTEM SEQUENCES ARE NOT BEING ALTERED FROM ORIGINAL DESIGN. SEQUENCES SHOWN ARE FROM THE 1985 STATE HOUSE RENOVATION PROJECT, PROJECT NUMBER F12-9585.



- RENOVATION NOTES:**
- MECHANICAL CONTRACTOR TO INSTALL NEW CONTROL VALVE, PROVIDED BY JCI CONTROLS, FOR THE FAN COIL UNIT. JCI TO INSTALL EQUIPMENT CONTROLS AND CONNECT TO NEW BUILDING MANAGEMENT SYSTEM.
 - JCI TO INSTALL NEW THERMOSTAT AND CONNECT TO EXISTING/NEW EQUIPMENT WITH NEW WIRING WHERE POSSIBLE. EXISTING WIRE MAY BE REUSED WHERE WIRE IS IN GOOD CONDITION.

1 SECOND FLOOR RENOVATION PLAN
3/32" = 1'-0"

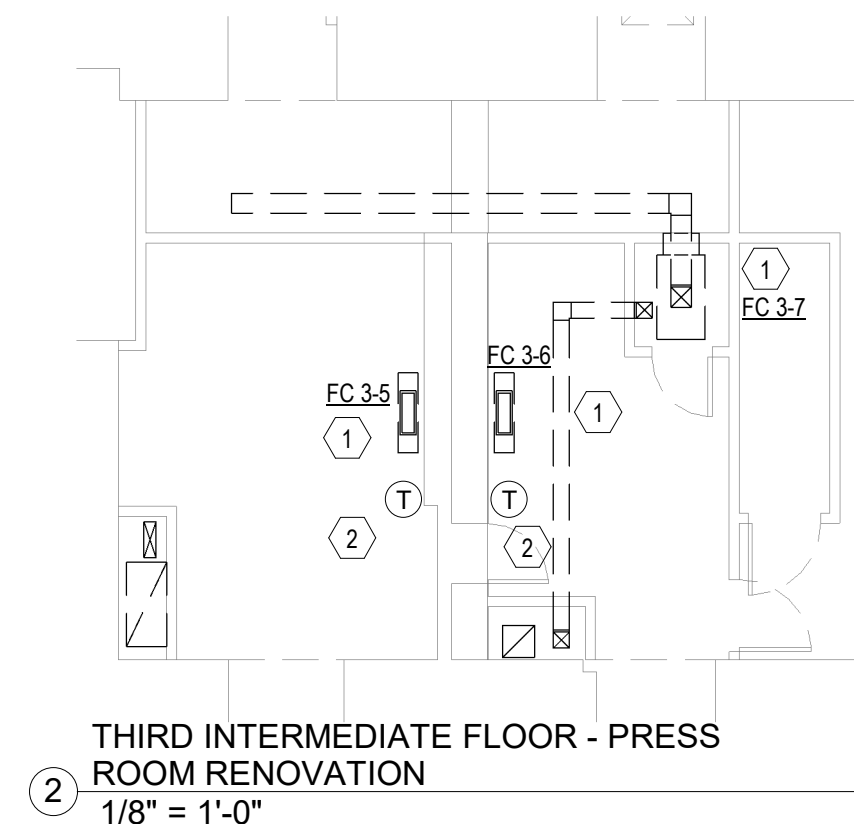


GENERAL NOTES:

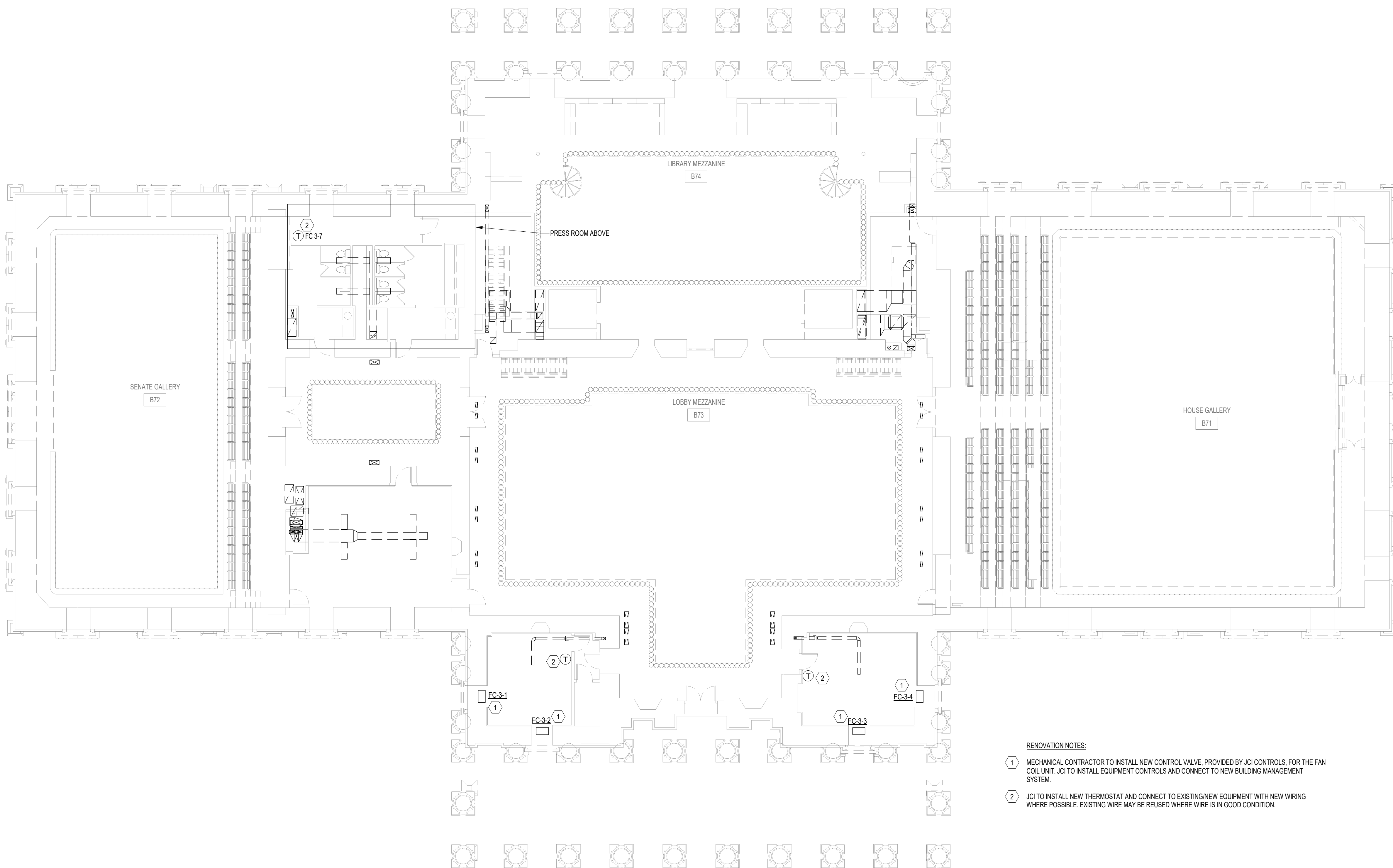
-CONTRACTOR TO COORDINATE REMOVAL AND REPLACEMENT OF VAV BOXES AND DAMPERS WITH DOWNTIME ASSOCIATED WITH AH-1 REBUILD. CONTRACTOR TO COORDINATE REPLACEMENT OF VAV BOXES AT ANY OTHER TIME WITH OWNER TO REDUCE IMPACT ON OCCUPIED SPACES. BUILDING TO REMAIN OPERABLE THROUGHOUT CONSTRUCTION.

-JCI TO HAVE FRONT END CONTROLS, WIRING, ETC INSTALLED AND READY PRIOR TO SWITCHING EQUIPMENT CONTROLS FROM OLD SYSTEM TO NEW SYSTEM TO MINIMIZE DOWNTIME. DOWNTIME TO BE COORDINATED WITH MECHANICAL CONTRACTOR FOR WORK TO BE COMPLETED SIMULTANEOUSLY.

-NEW CONTROL SYSTEM IS BEING INSTALLED TO REPLACE EXISTING SYSTEM. EXISTING SYSTEM SEQUENCES ARE NOT BEING ALTERED FROM ORIGINAL DESIGN. SEQUENCES SHOWN ARE FROM THE 1995 STATE HOUSE RENOVATION PROJECT, PROJECT NUMBER F12-6685.



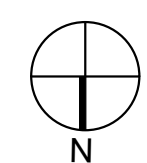
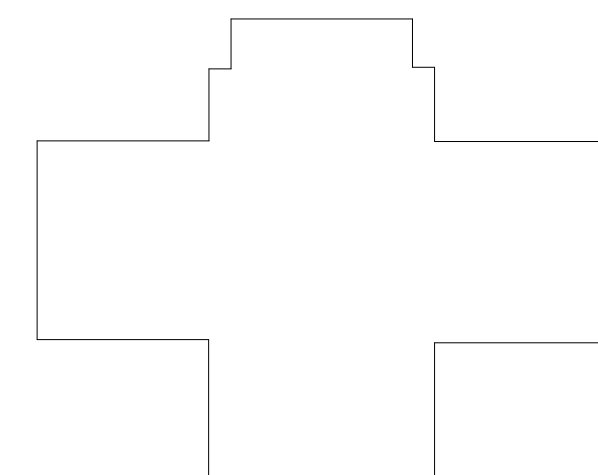
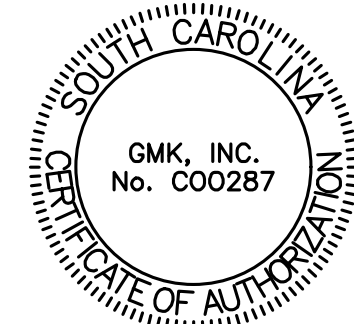
THIRD INTERMEDIATE FLOOR - PRESS
ROOM RENOVATION
1/8" = 1'-0"



RENOVATION NOTES:

- MECHANICAL CONTRACTOR TO INSTALL NEW CONTROL VALVE, PROVIDED BY JCI CONTROLS, FOR THE FAN COIL UNIT. JCI TO INSTALL EQUIPMENT CONTROLS AND CONNECT TO NEW BUILDING MANAGEMENT SYSTEM.
- JCI TO INSTALL NEW THERMOSTAT AND CONNECT TO EXISTING NEW EQUIPMENT WITH NEW WIRING WHERE POSSIBLE. EXISTING WIRE MAY BE REUSED WHERE WIRE IS IN GOOD CONDITION.

1 THIRD FLOOR RENOVATION PLAN
3/32" = 1'-0"

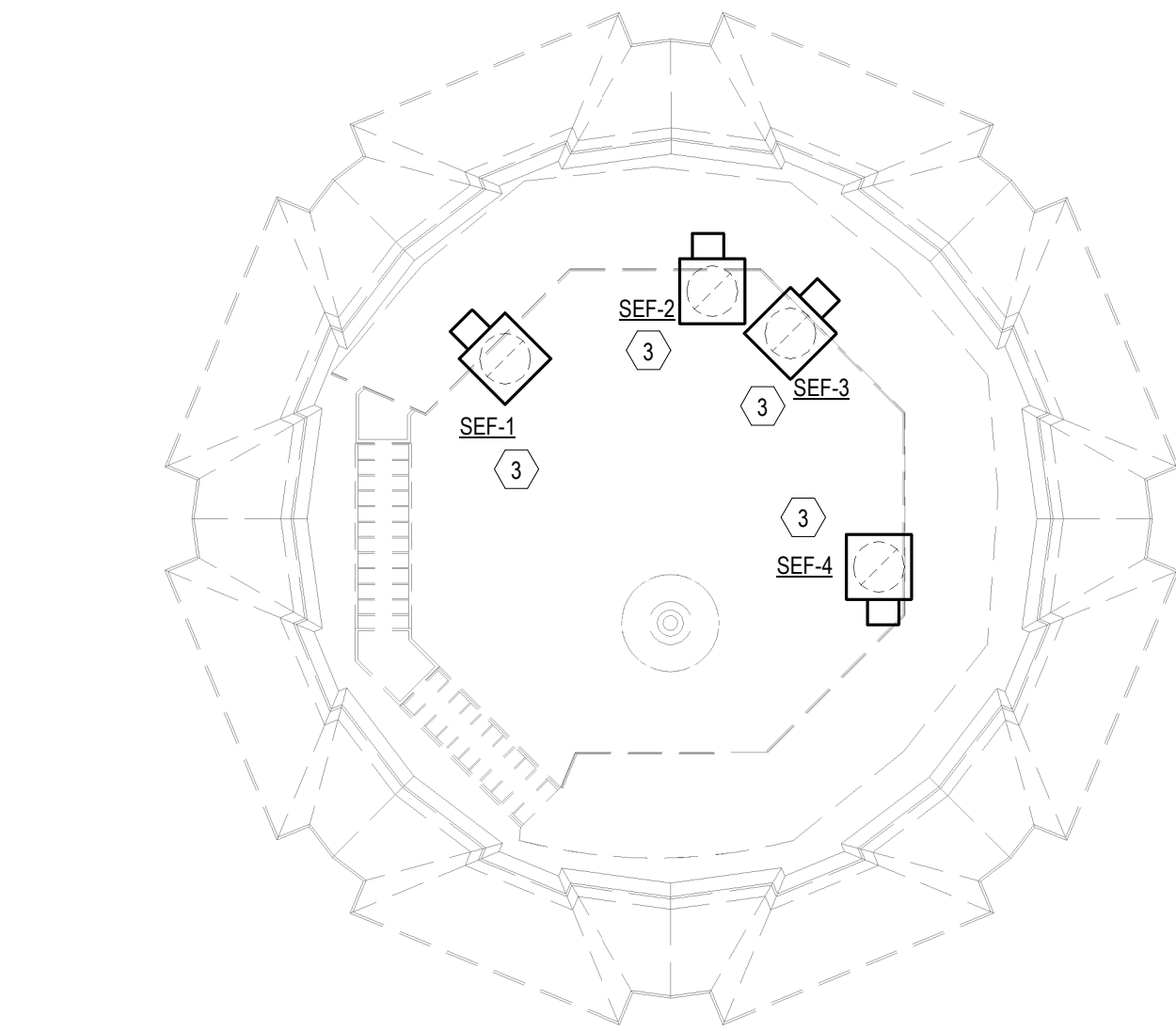


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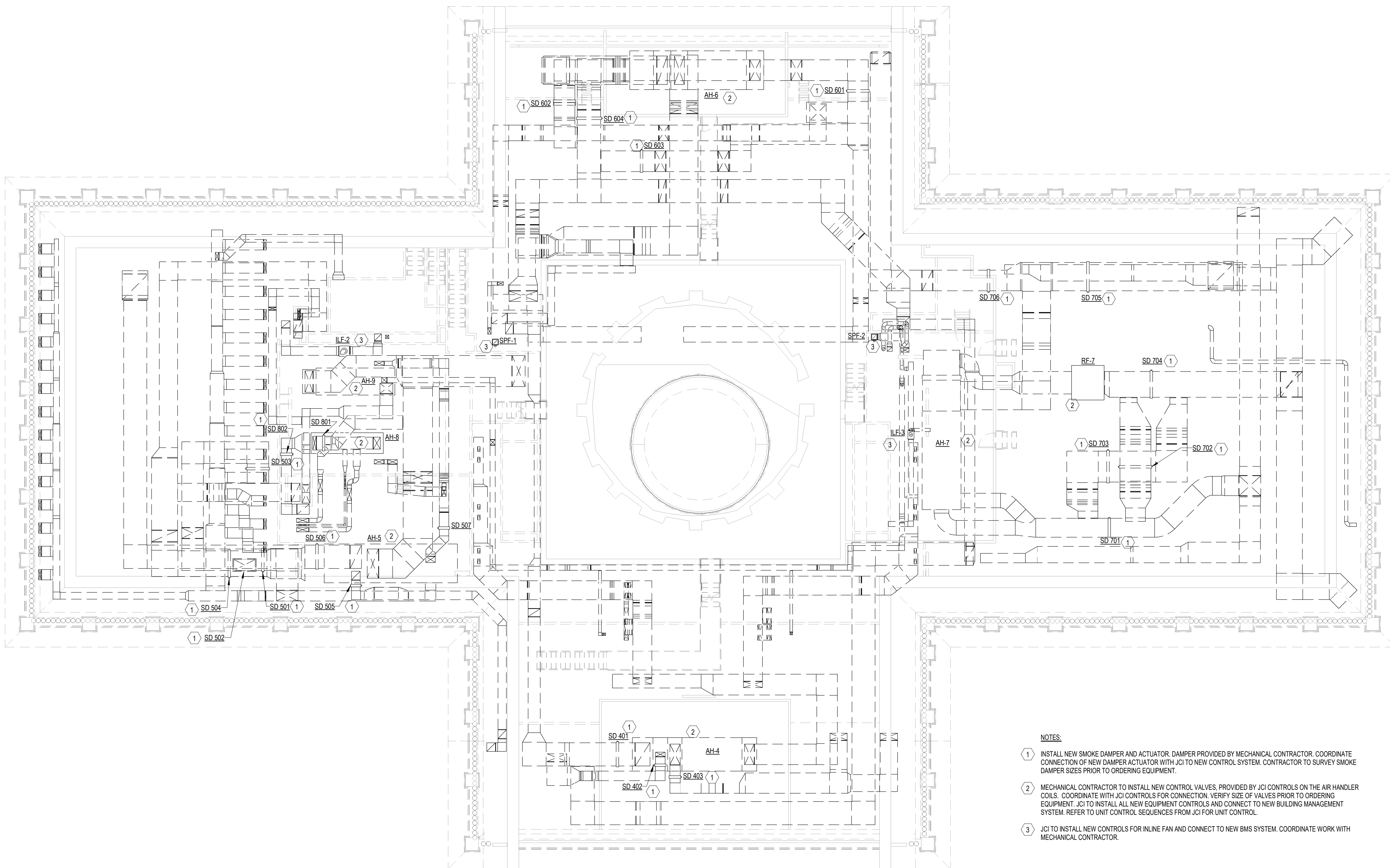
- CONTRACTOR TO COORDINATE REMOVAL AND REPLACEMENT OF VAV BOXES AND DAMPERS WITH DOWNTIME ASSOCIATED WITH AH-1 REBUILD. CONTRACTOR TO COORDINATE REPLACEMENT OF VAV BOXES AT ANY OTHER TIME WITH OWNER TO REDUCE IMPACT ON OCCUPIED SPACES. BUILDING TO REMAIN OPERABLE THROUGHOUT CONSTRUCTION.

- JCI TO HAVE FRONT END CONTROLS, WIRING, ETC INSTALLED AND READY PRIOR TO SWITCHING EQUIPMENT CONTROLS FROM OLD SYSTEM TO NEW SYSTEM TO MINIMIZE DOWNTIME. DOWNTIME TO BE COORDINATED WITH MECHANICAL CONTRACTOR FOR WORK TO BE COMPLETED SIMULTANEOUSLY.

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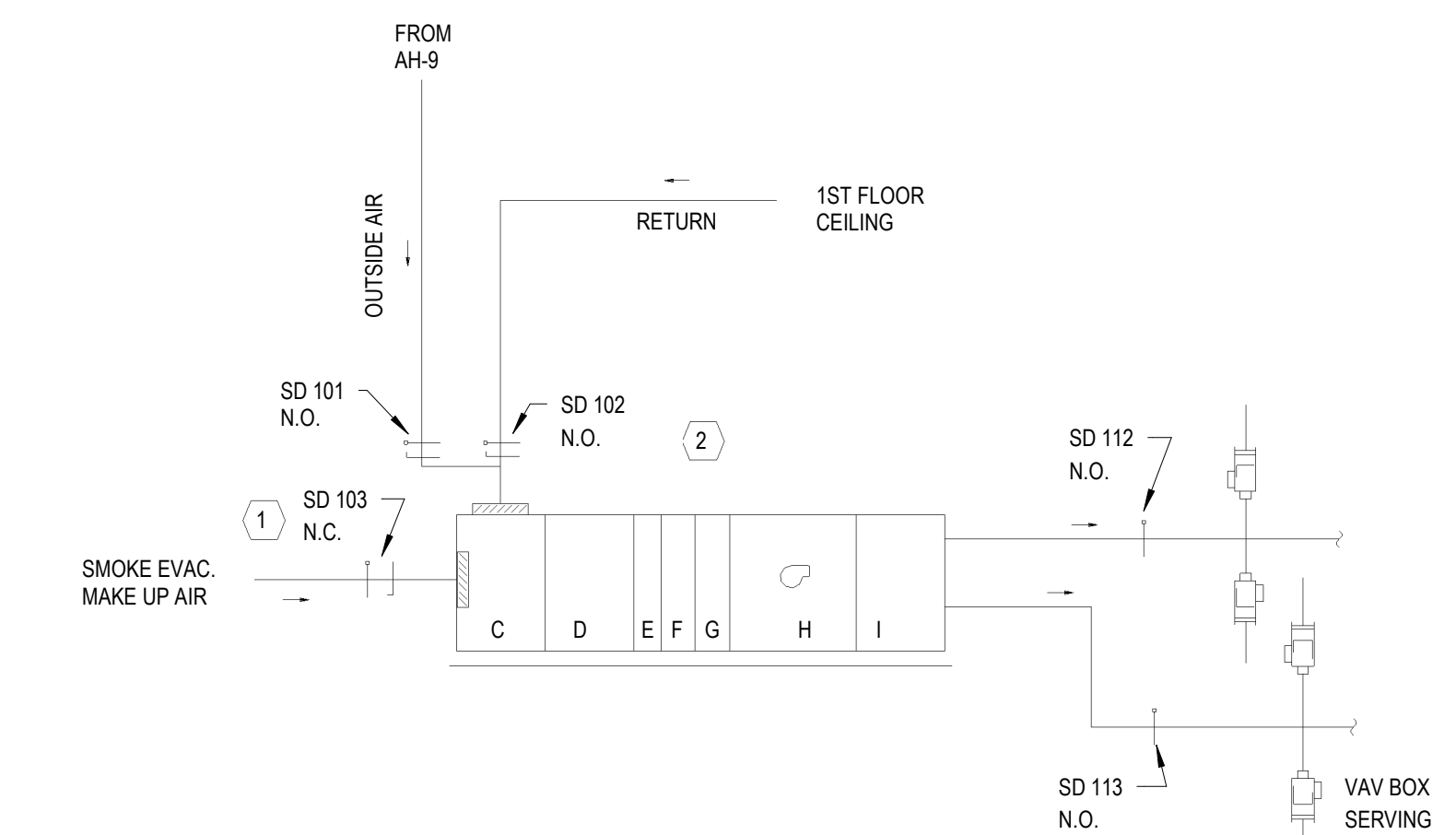
2 1ST LEVEL CUPOLA RENOVATION PLAN
3/32" = 1'-0"



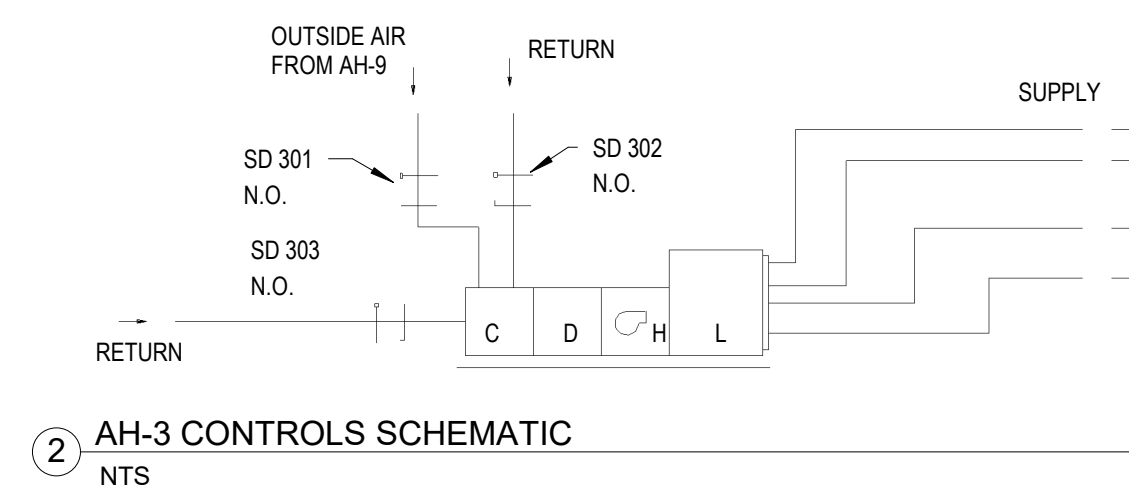
1 ATTIC FLOOR RENOVATION PLAN
3/32" = 1'-0"

NOTES:

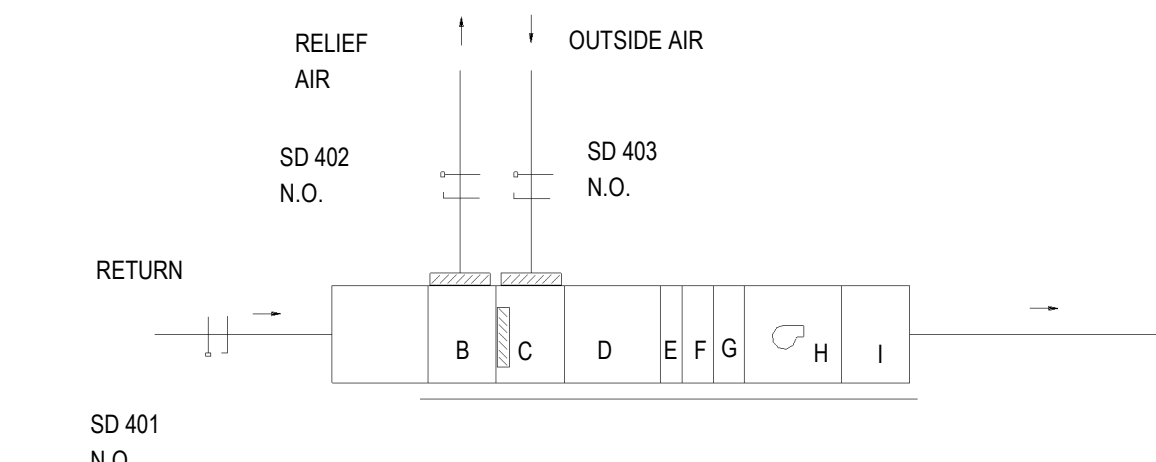
- 1 INSTALL NEW SMOKE DAMPER AND ACTUATOR. DAMPER PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE CONNECTION OF NEW DAMPER ACTUATOR WITH JCI TO NEW CONTROL SYSTEM. CONTRACTOR TO SURVEY SMOKE DAMPER SIZES PRIOR TO ORDERING EQUIPMENT.
- 2 MECHANICAL CONTRACTOR TO INSTALL NEW CONTROL VALVES, PROVIDED BY JCI CONTROLS ON THE AIR HANDLER COILS. COORDINATE WITH JCI CONTROLS FOR CONNECTION. VERIFY SIZE OF VALVES PRIOR TO ORDERING EQUIPMENT. JCI TO INSTALL ALL NEW EQUIPMENT CONTROLS AND CONNECT TO NEW BUILDING MANAGEMENT SYSTEM. REFER TO UNIT CONTROL SEQUENCES FROM JCI FOR UNIT CONTROL.
- 3 JCI TO INSTALL NEW CONTROLS FOR INLINE FAN AND CONNECT TO NEW BMS SYSTEM. COORDINATE WORK WITH MECHANICAL CONTRACTOR.



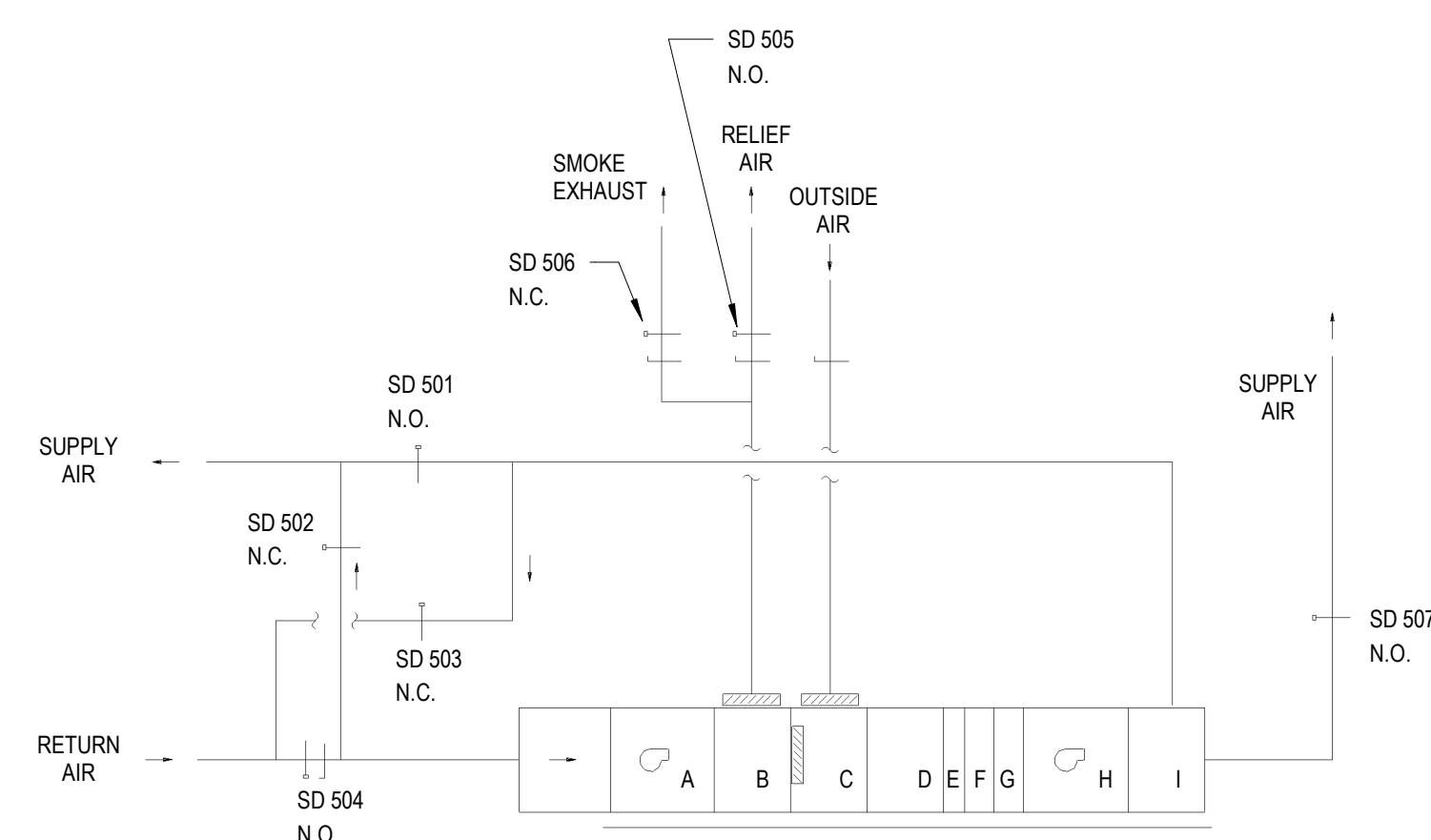
1 AH-1 CONTROLS SCHEMATIC
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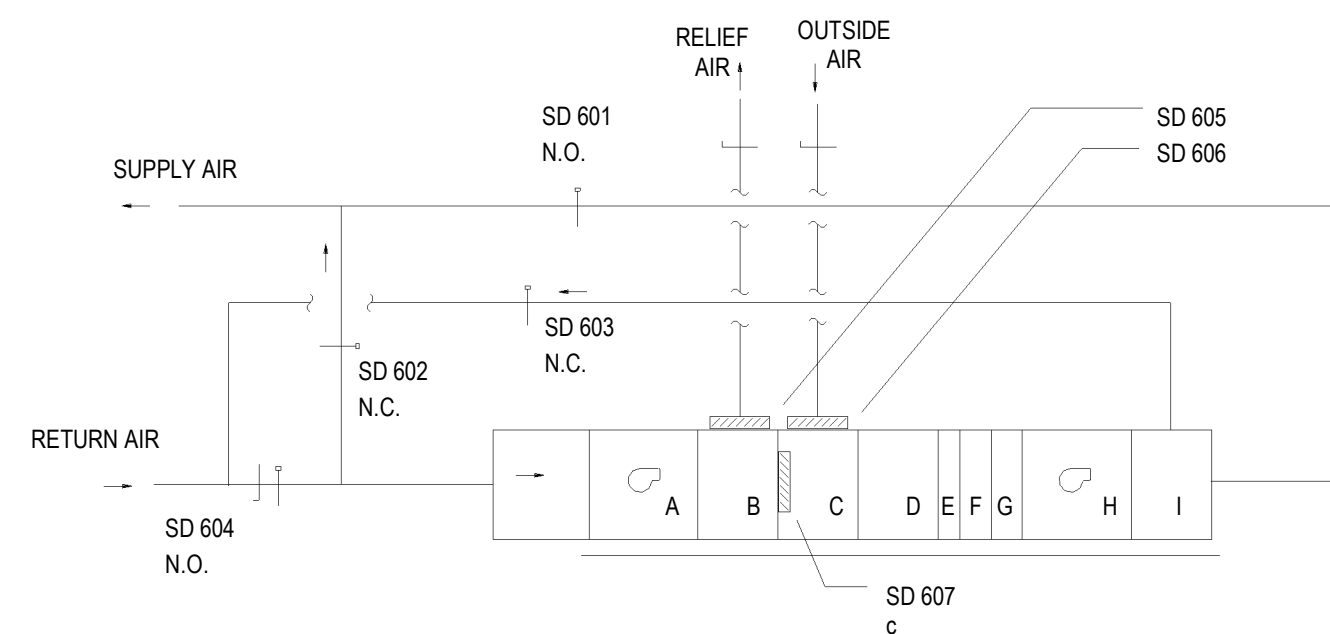
2 AH-3 CONTROLS SCHEMATIC
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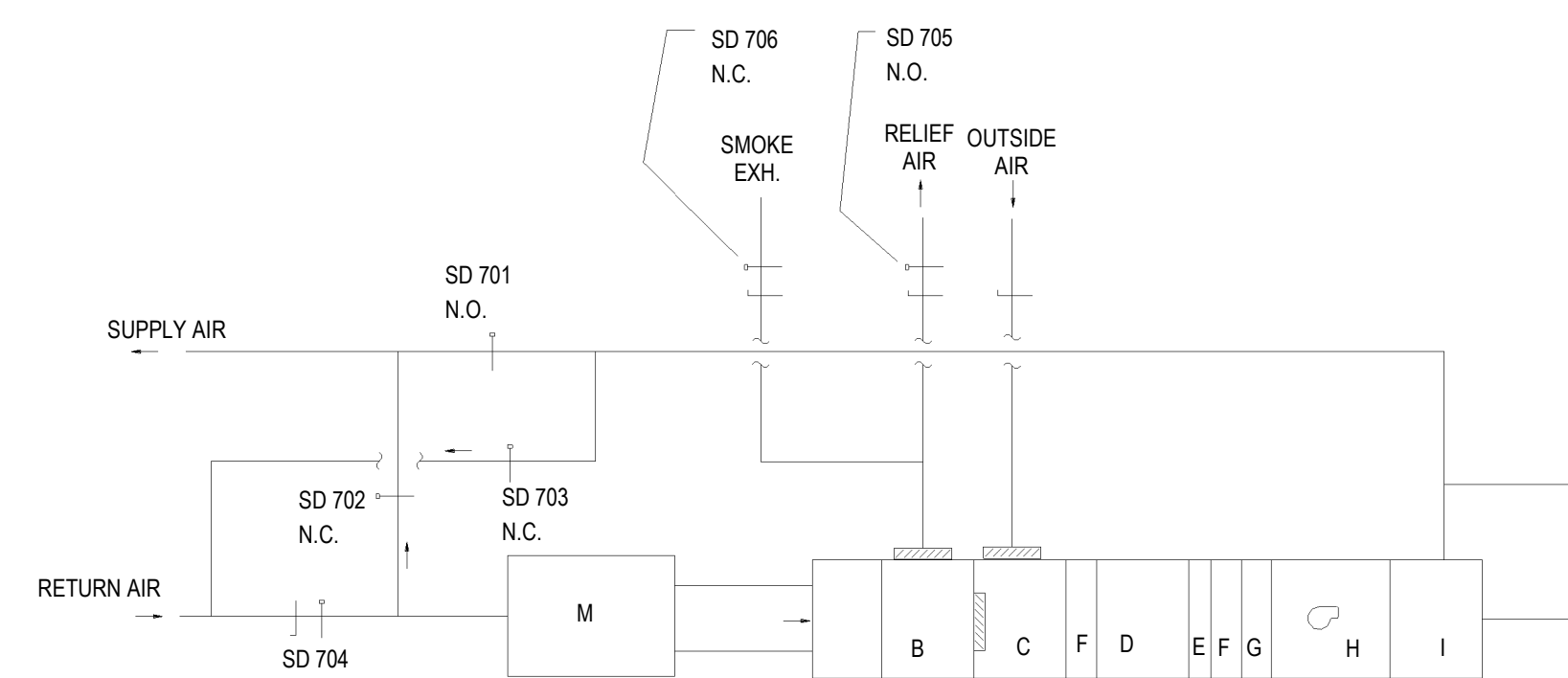
3 AH-4 CONTROLS SCHEMATIC
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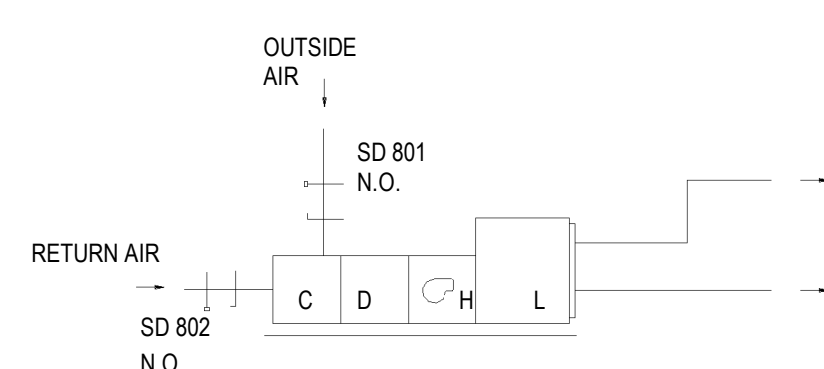
4 AH-5 CONTROLS SCHEMATIC
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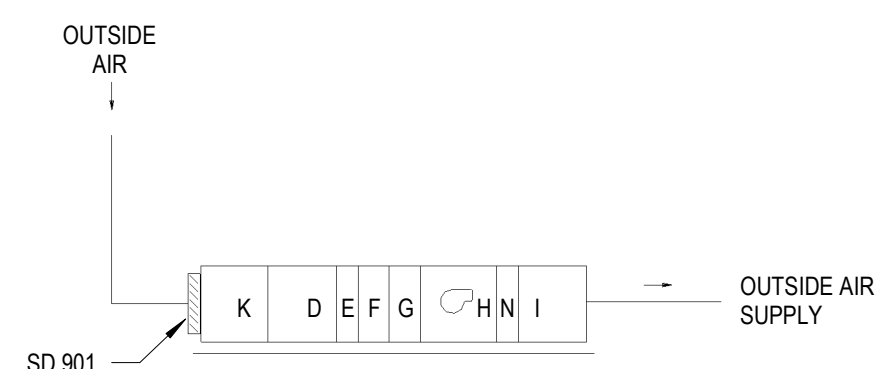
5 AH-6 CONTROLS SCHEMATIC
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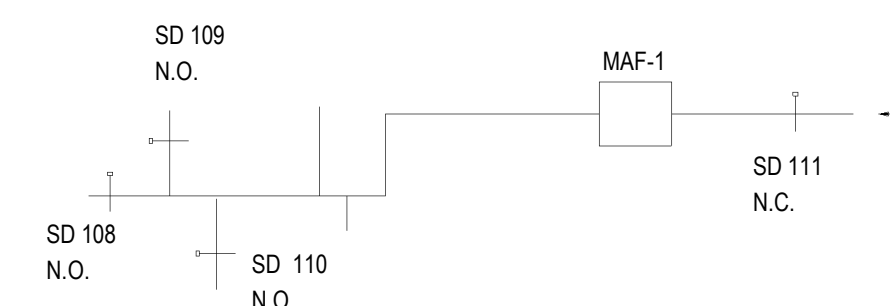
6 AH-7 CONTROLS SCHEMATIC
NTS



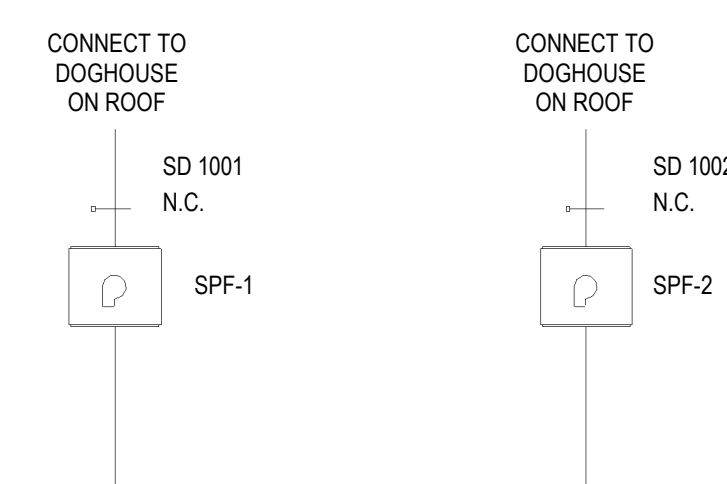
7 AH-8 CONTROLS SCHEMATIC
1/8" = 1'-0"



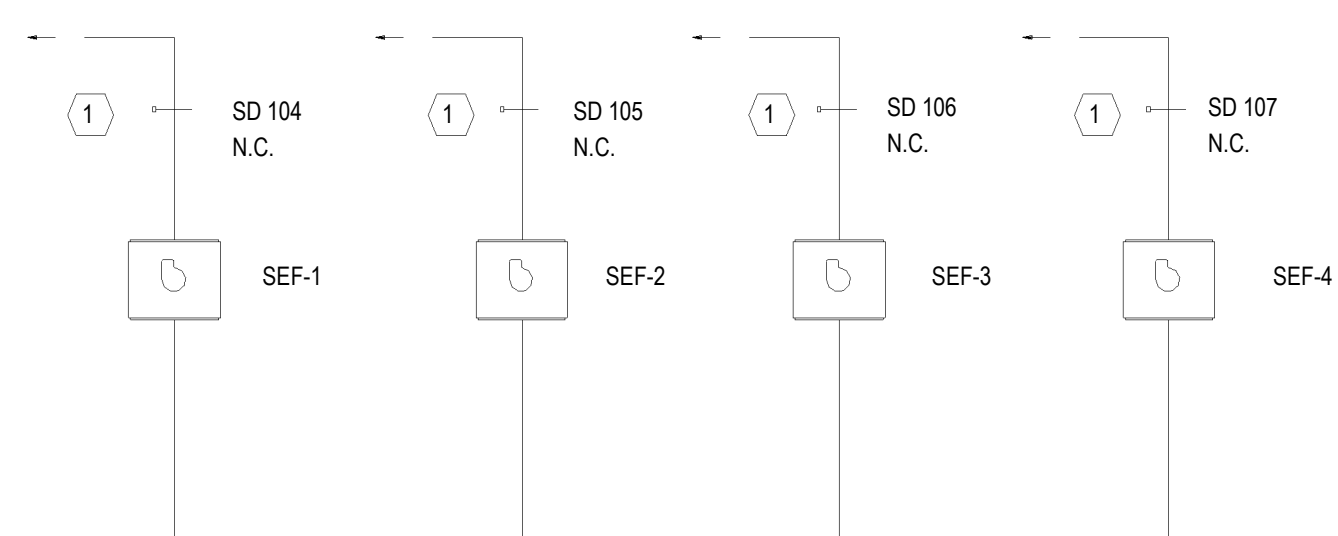
8 AH-9 CONTROLS SCHEMATIC
NTS



9 MAF-1 CONTROLS SCHEMATIC
NTS



10 STAIR PRESSURIZATION CONTROLS SCHEMATIC
NTS



11 DOME CONTROLS SCHEMATIC
1/8" = 1'-0"

consultant:

project name
SC STATE HOUSE - VAV
REPLACEMENT, HVAC CONTROL
AND AHU NO. 1 RE-BUILD
project number
JOB NO. D50-6103-LC

seals/signature



date
12/10/25

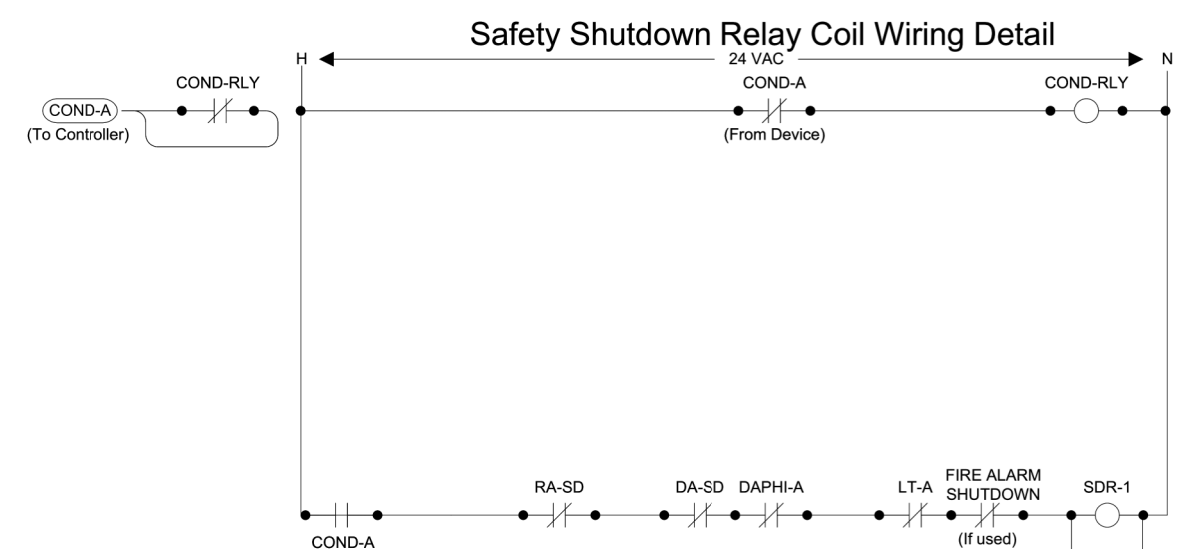
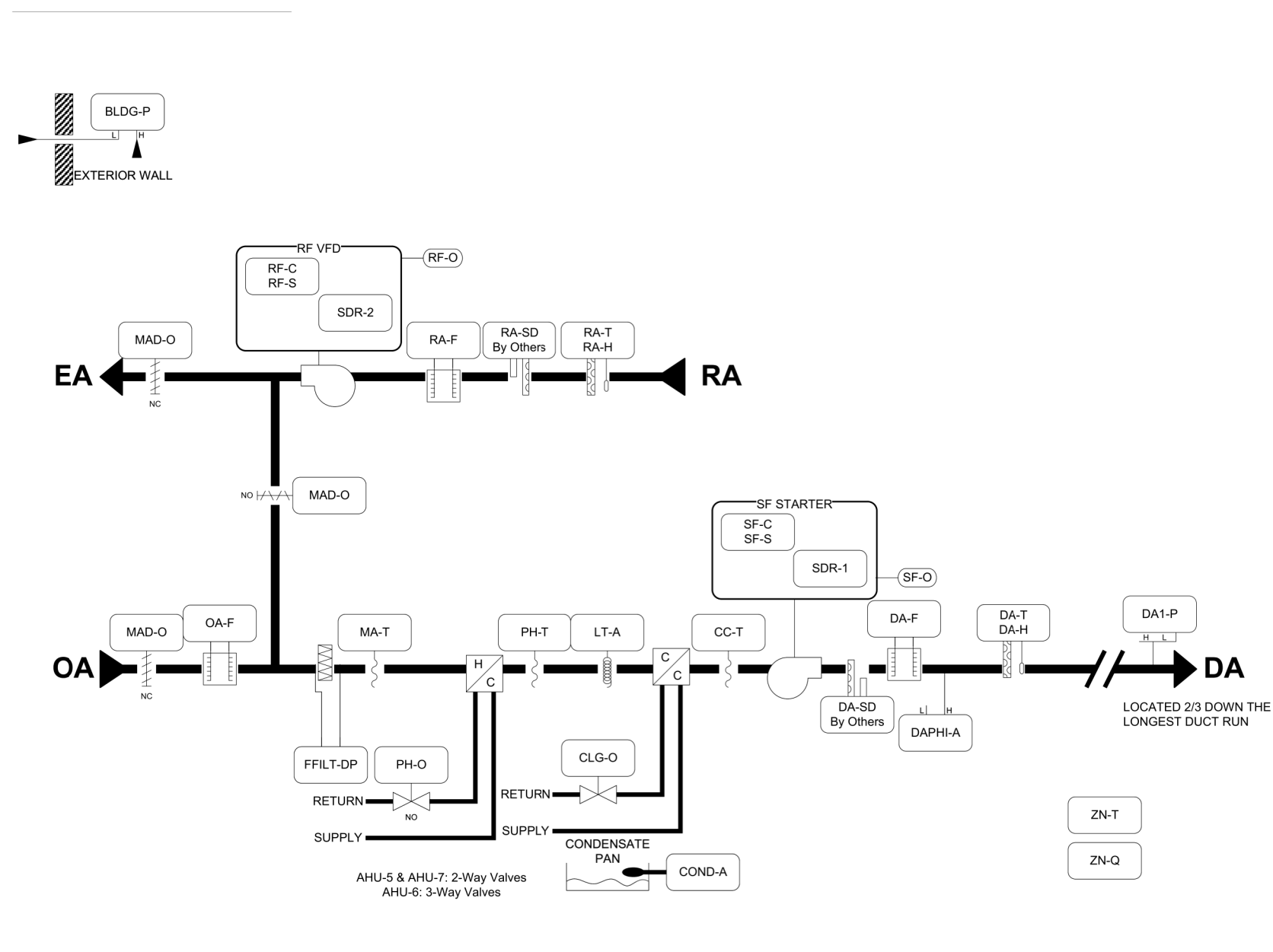
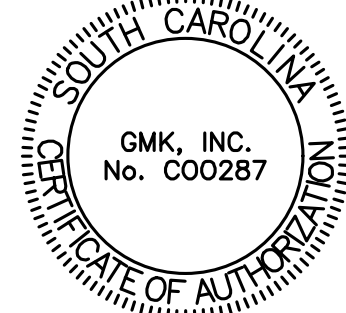
key plan

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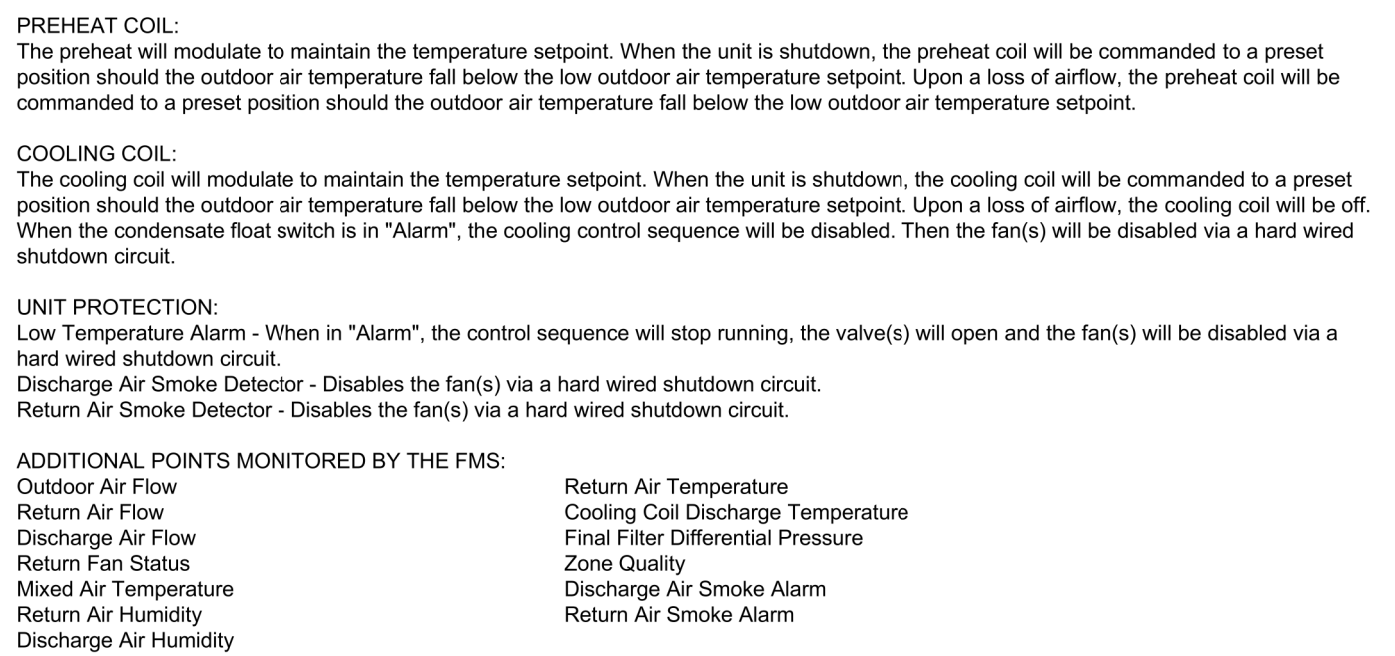
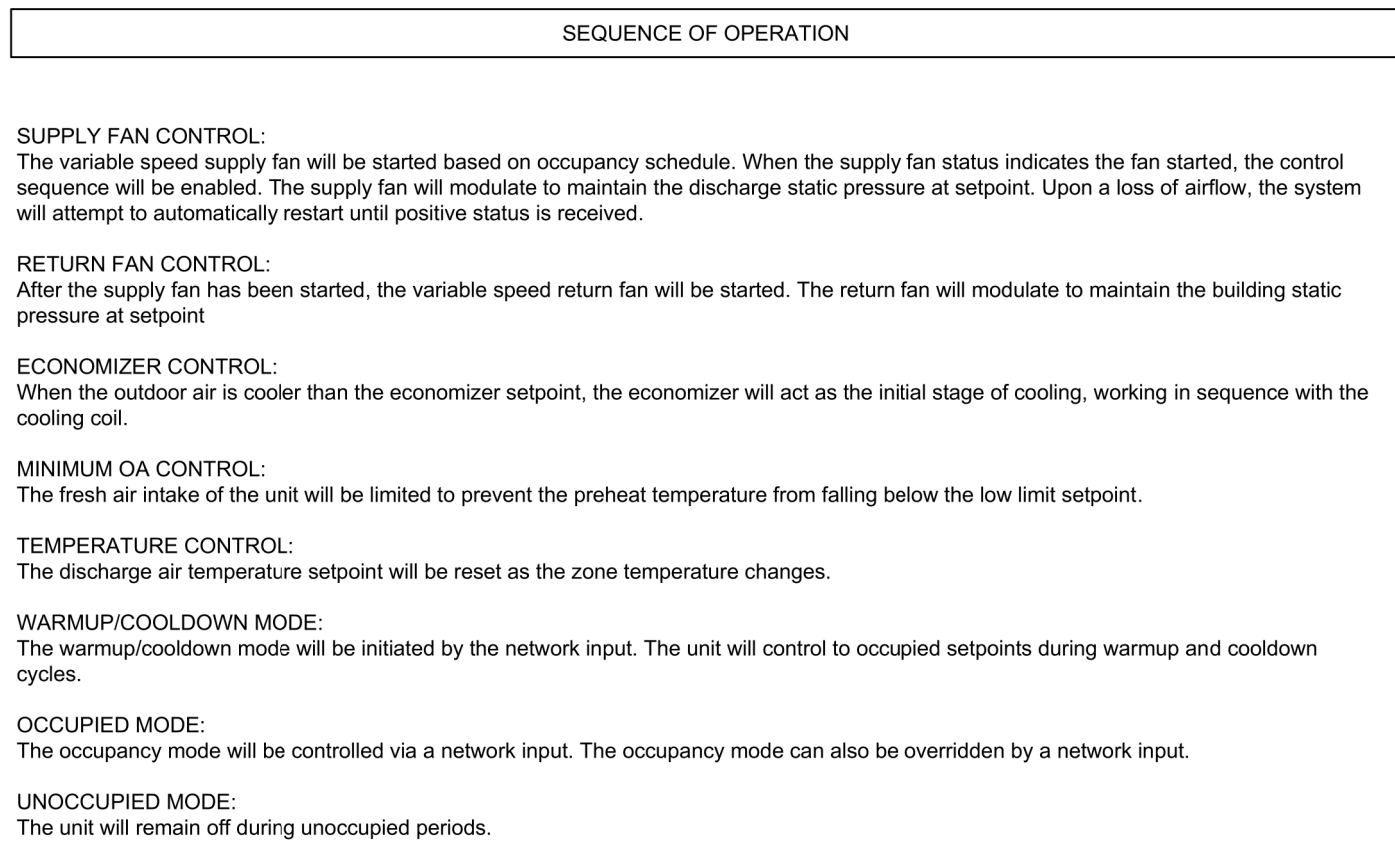
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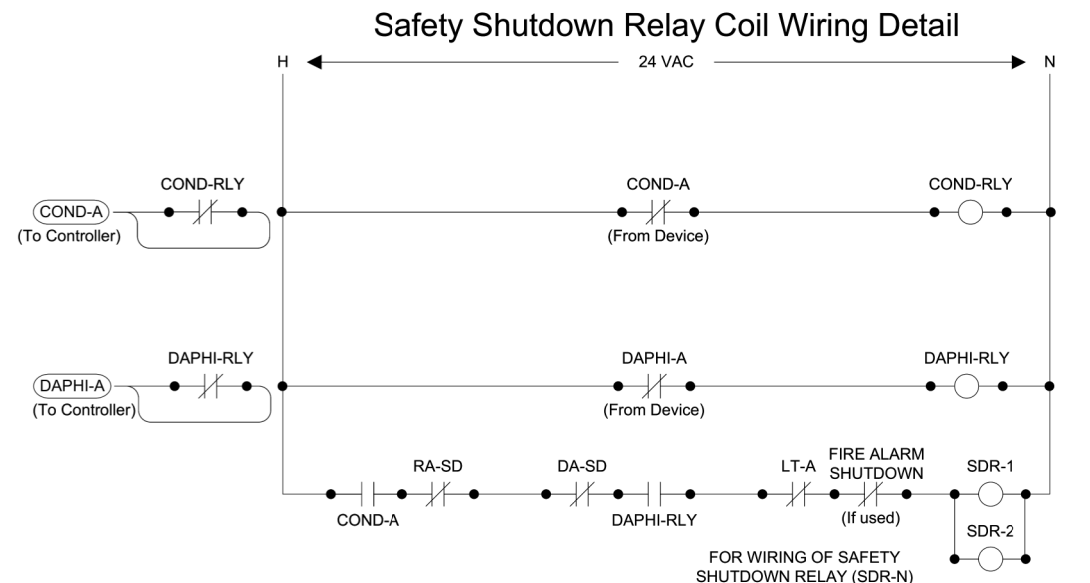
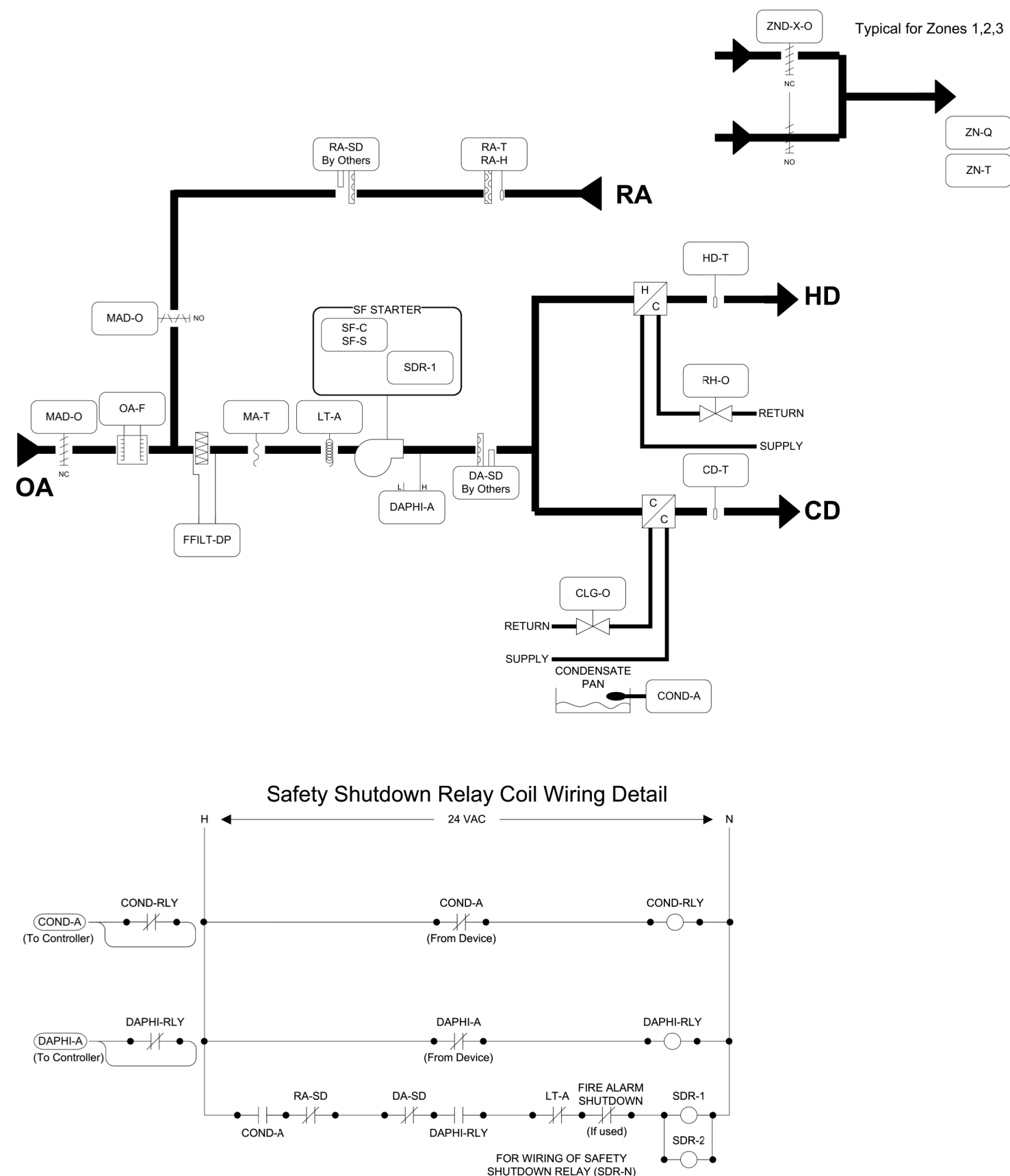
NOTE:
-CONTROLS SEQUENCES PROVIDED BY JCI AND REVIEWED BY GMK ASSOCIATES.



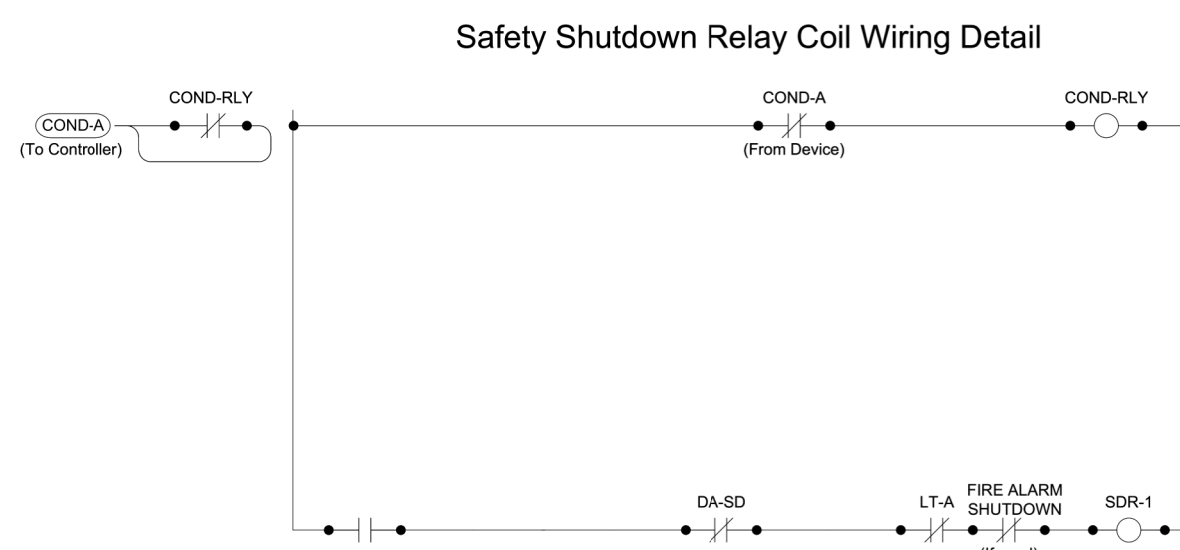
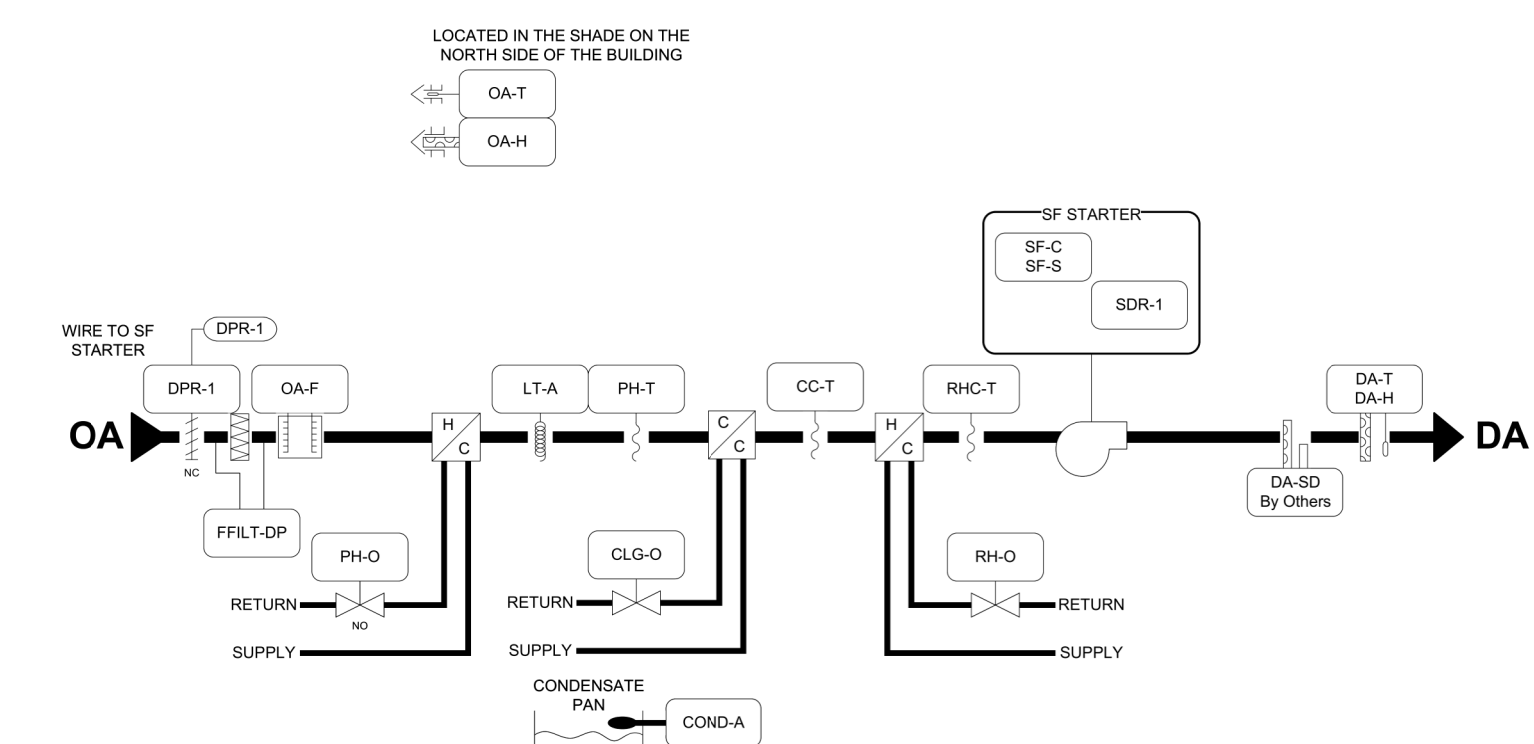
1 AH-5, 6, 7 CONTROLS SEQUENCE
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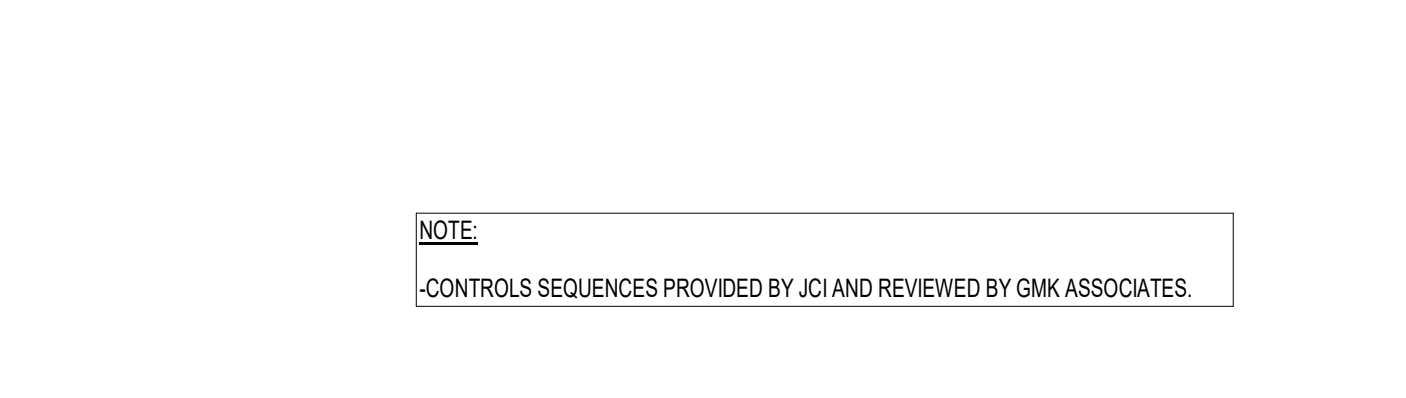
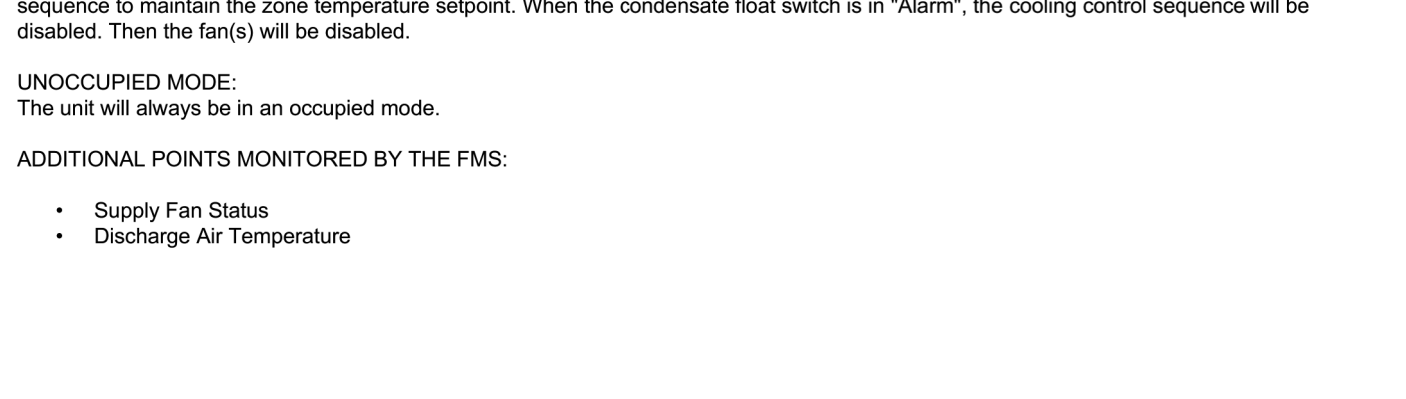
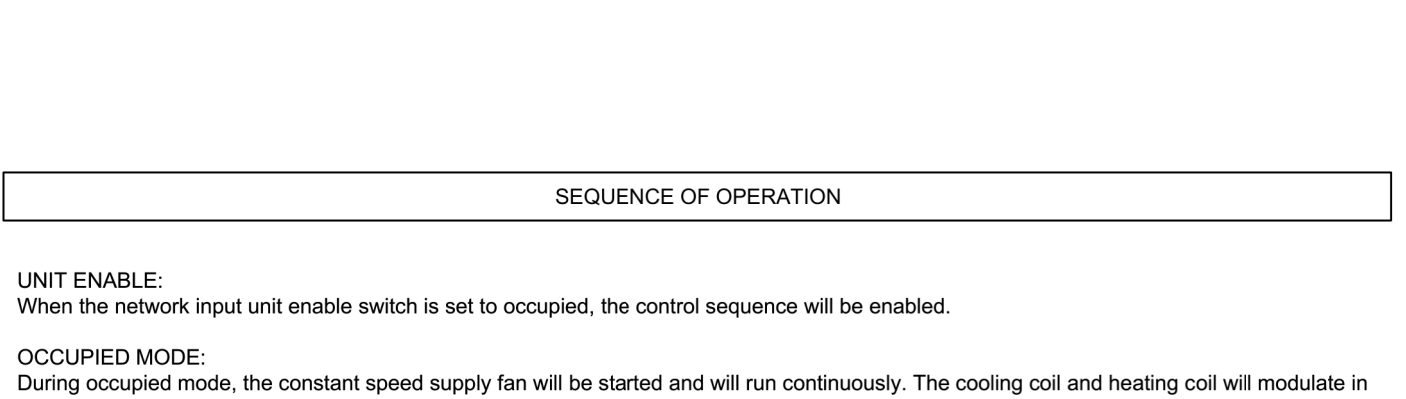
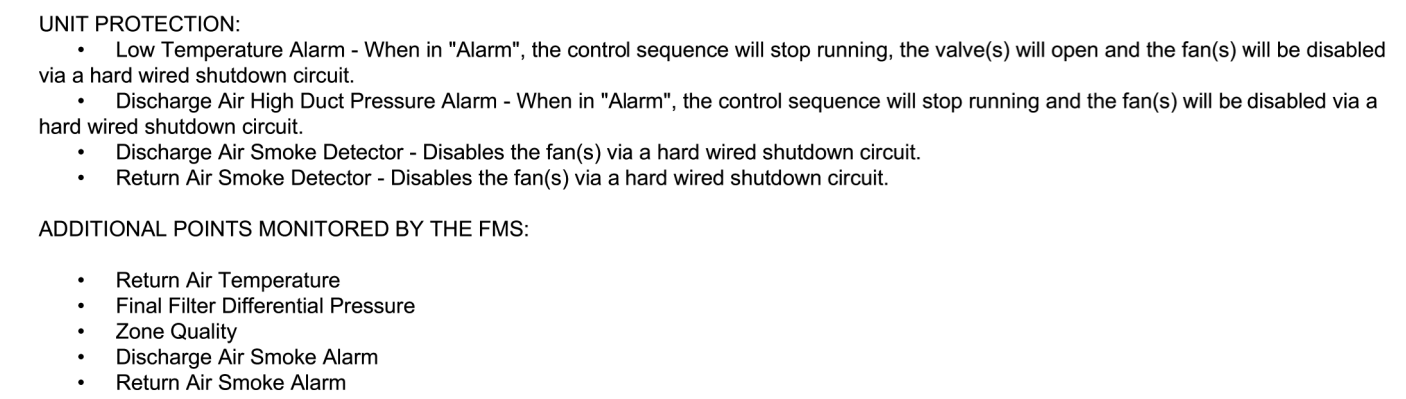
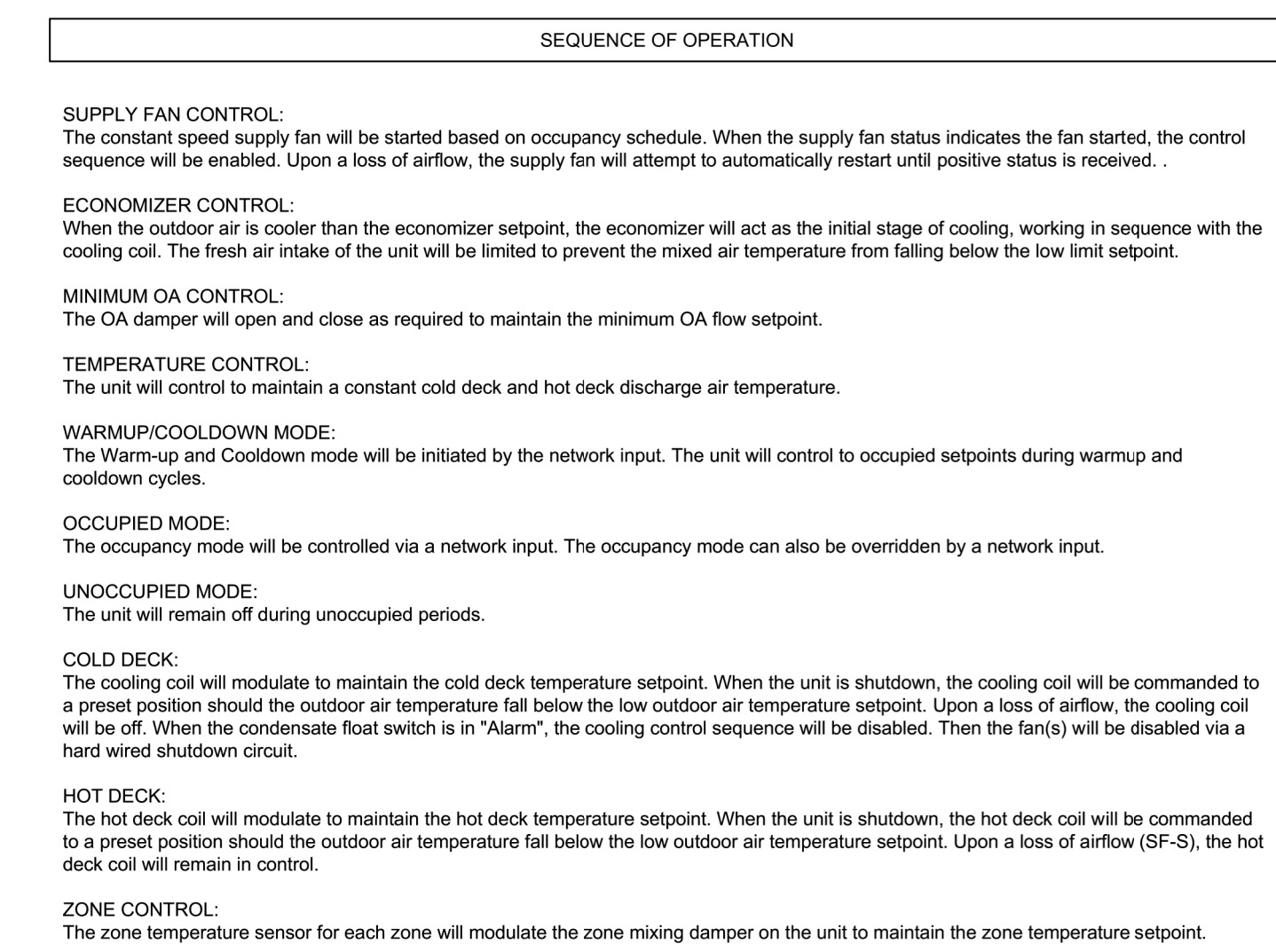
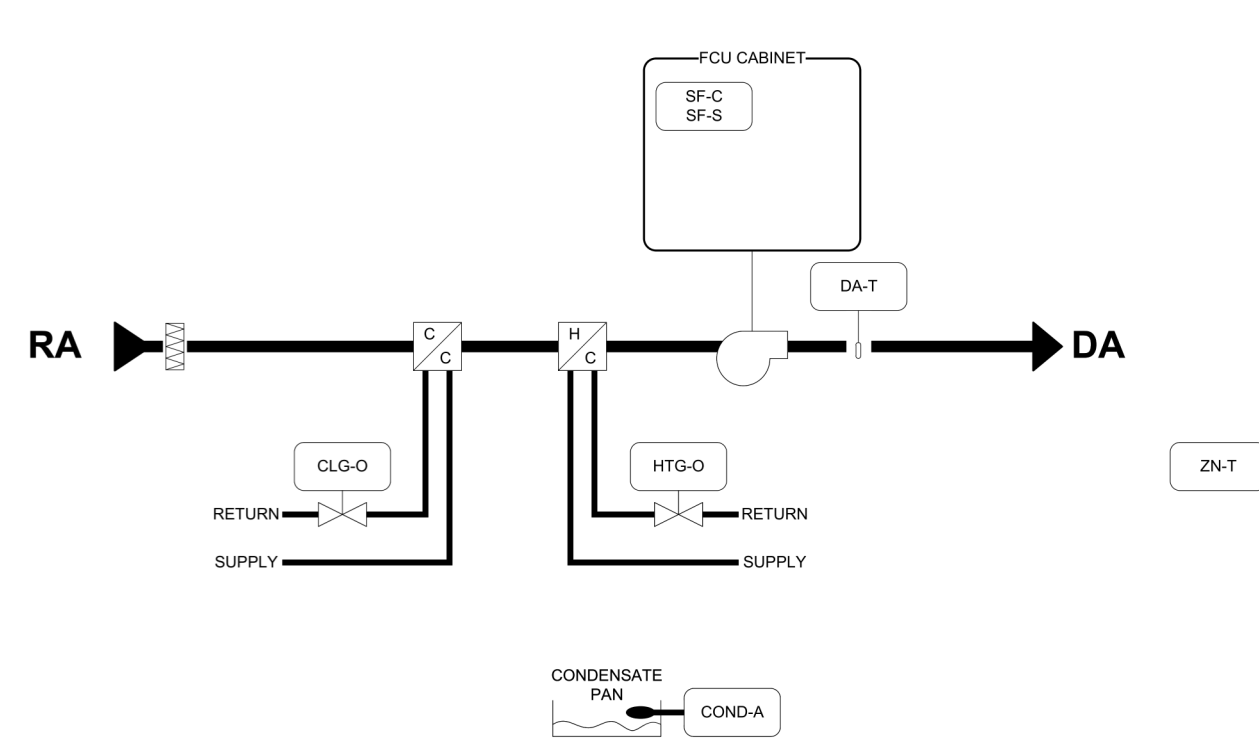
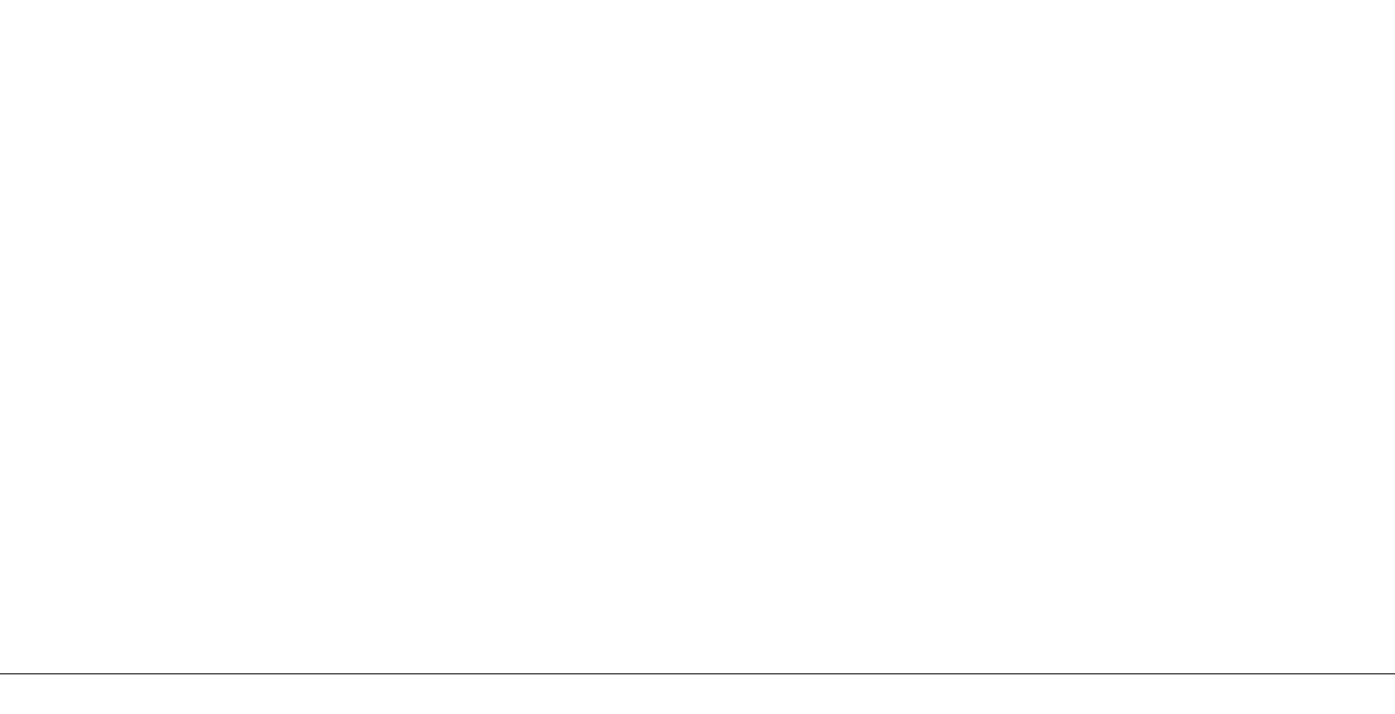
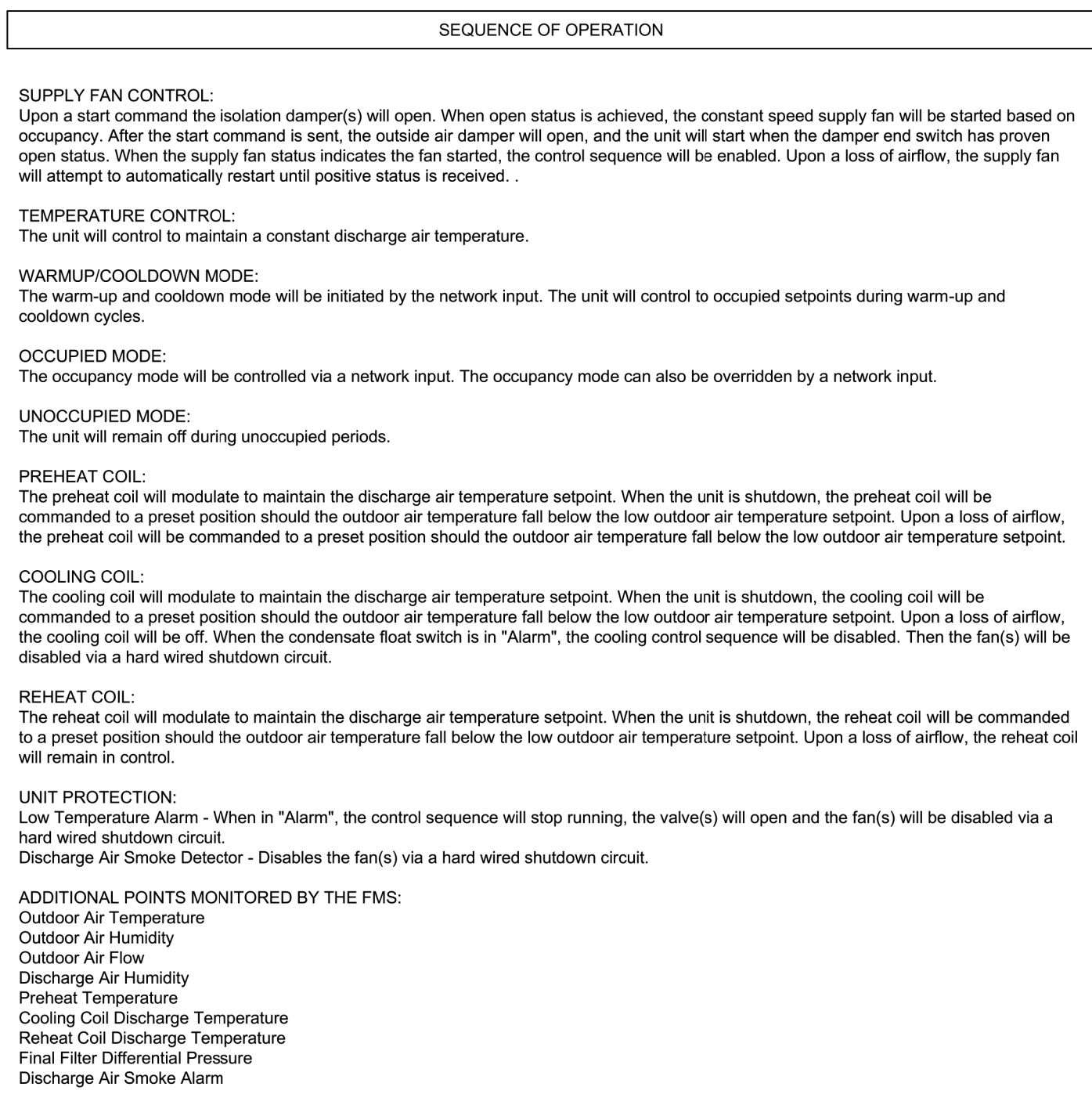
2 AH-8 CONTROLS SEQUENCE
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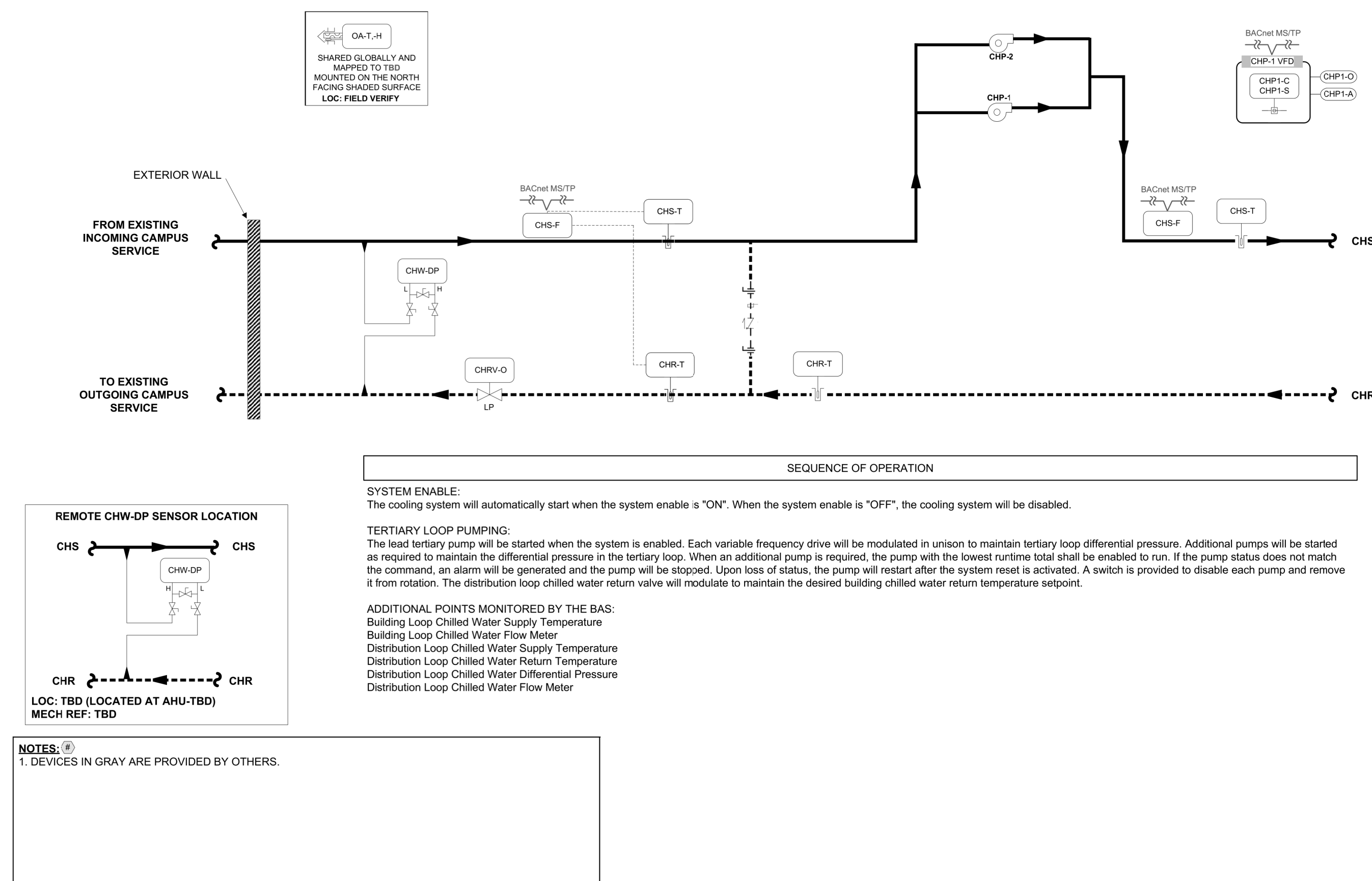
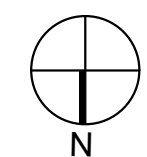
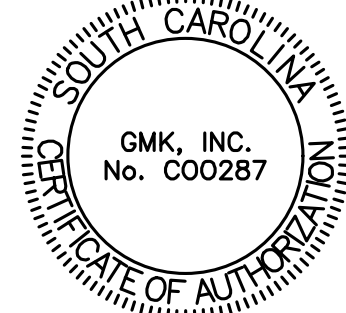


4 FAN COIL UNITS AND AH-10 CONTROLS SEQUENCE
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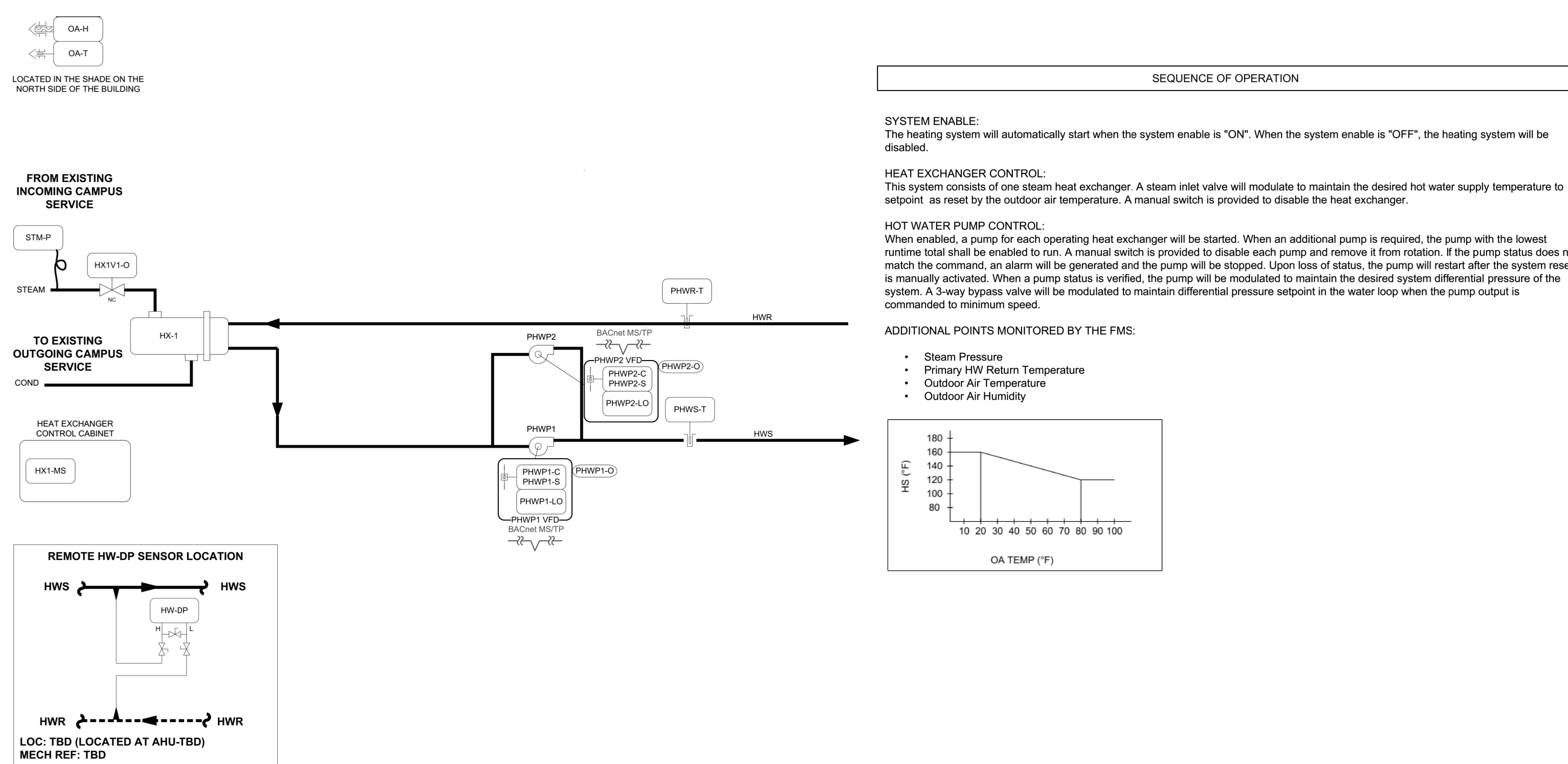
3 AH-9 CONTROLS SEQUENCE
NTS





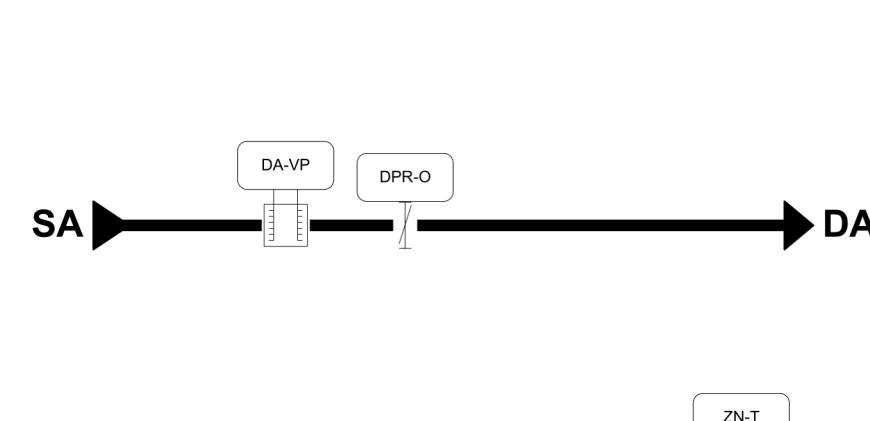
1 CHILLED WATER SYSTEM CONTROLS SEQUENCE

NTS



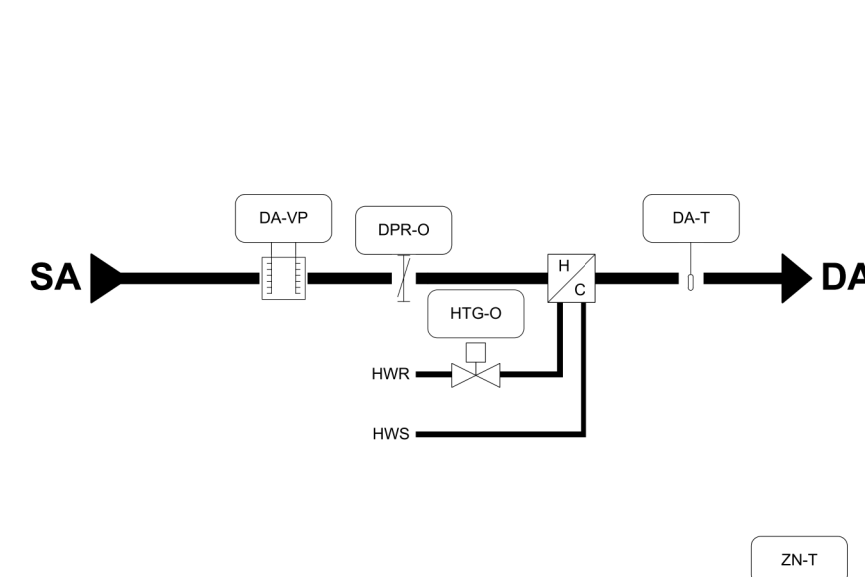
2 HOT WATER SYSTEM CONTROLS SEQUENCE

NTS



3 VAV - COOLING ONLY CONTROLS SEQUENCE

NTS



4 VAV WITH HOT WATER REHEAT CONTROLS SEQUENCE

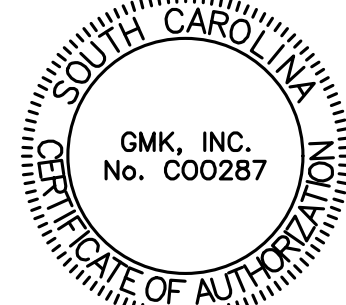
NTS

NOTE:
-CONTROLS SEQUENCES PROVIDED BY JCI AND REVIEWED BY GMK ASSOCIATES.

owner
**SC DEPARTMENT OF
ADMINISTRATION - DIVISION
OF FACILITIES MANAGEMENT
AND PROPERTY SERVICES**

project name
**SC STATE HOUSE - VAV
REPLACEMENT, HVAC CONTROLS
AND AHU NO. 1 RE-BUILD**
project number
JOB NO. D50-6103-LC

seals/signature

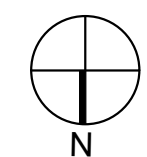


issued for
CONSTRUCTION

date
12/10/25

number	item	date
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key plan

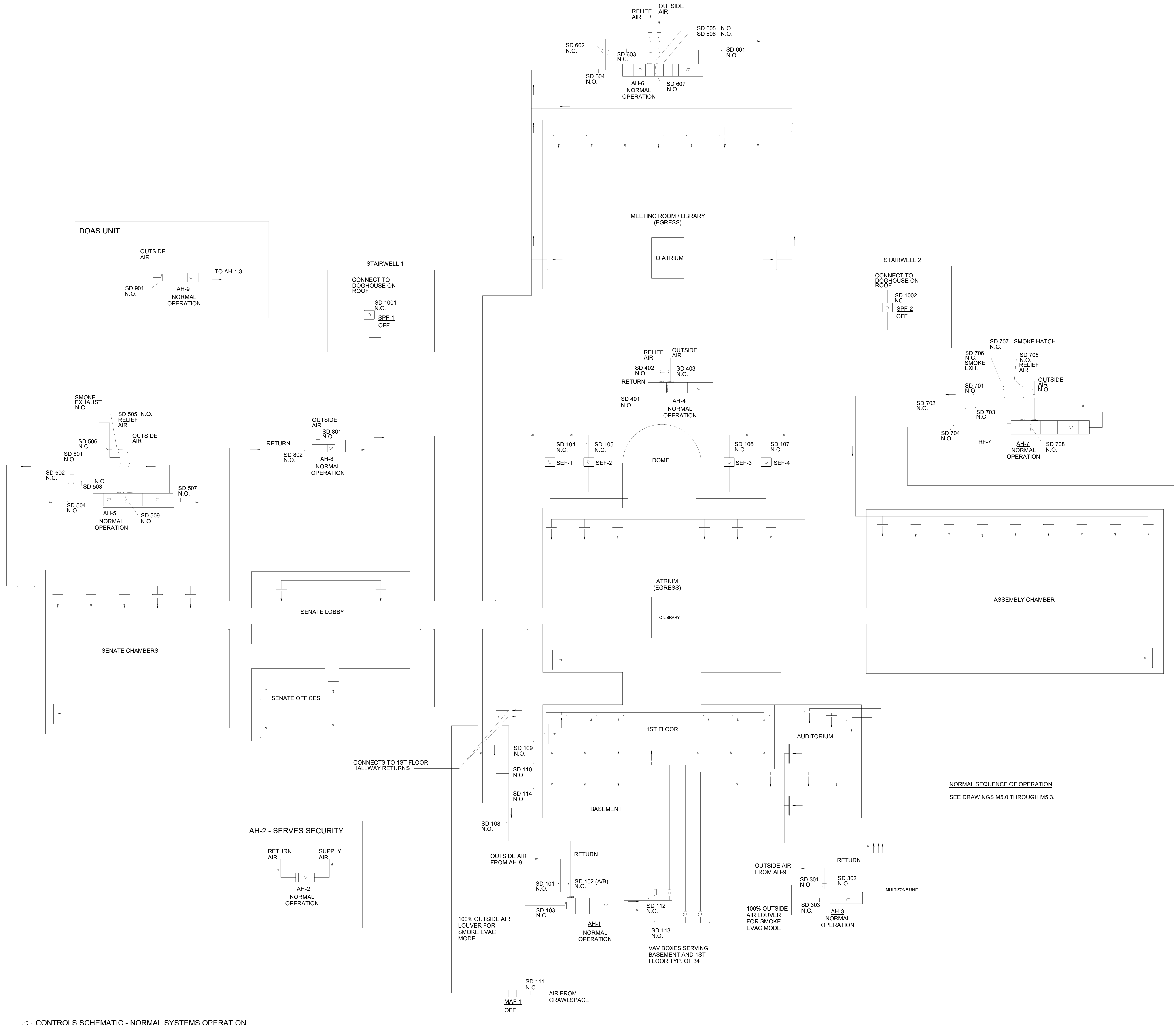


sheet title
**CONTROLS SCHEMATIC -
NORMAL SYSTEMS
OPERATION**

sheet number

M5.4

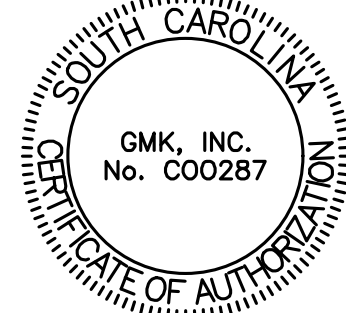
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OWNER
SC DEPARTMENT OF
ADMINISTRATION - DIVISION
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project name
SC STATE HOUSE - VAV
REPLACEMENT, HVAC CONTROLS
AND AHU NO. 1 RE-BUILD
project number
JOB NO. D50-6103-LC

seah/s/

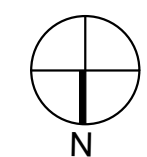


issued for
CONSTRUCTION

date
12/10/25

number	item	date
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key plan

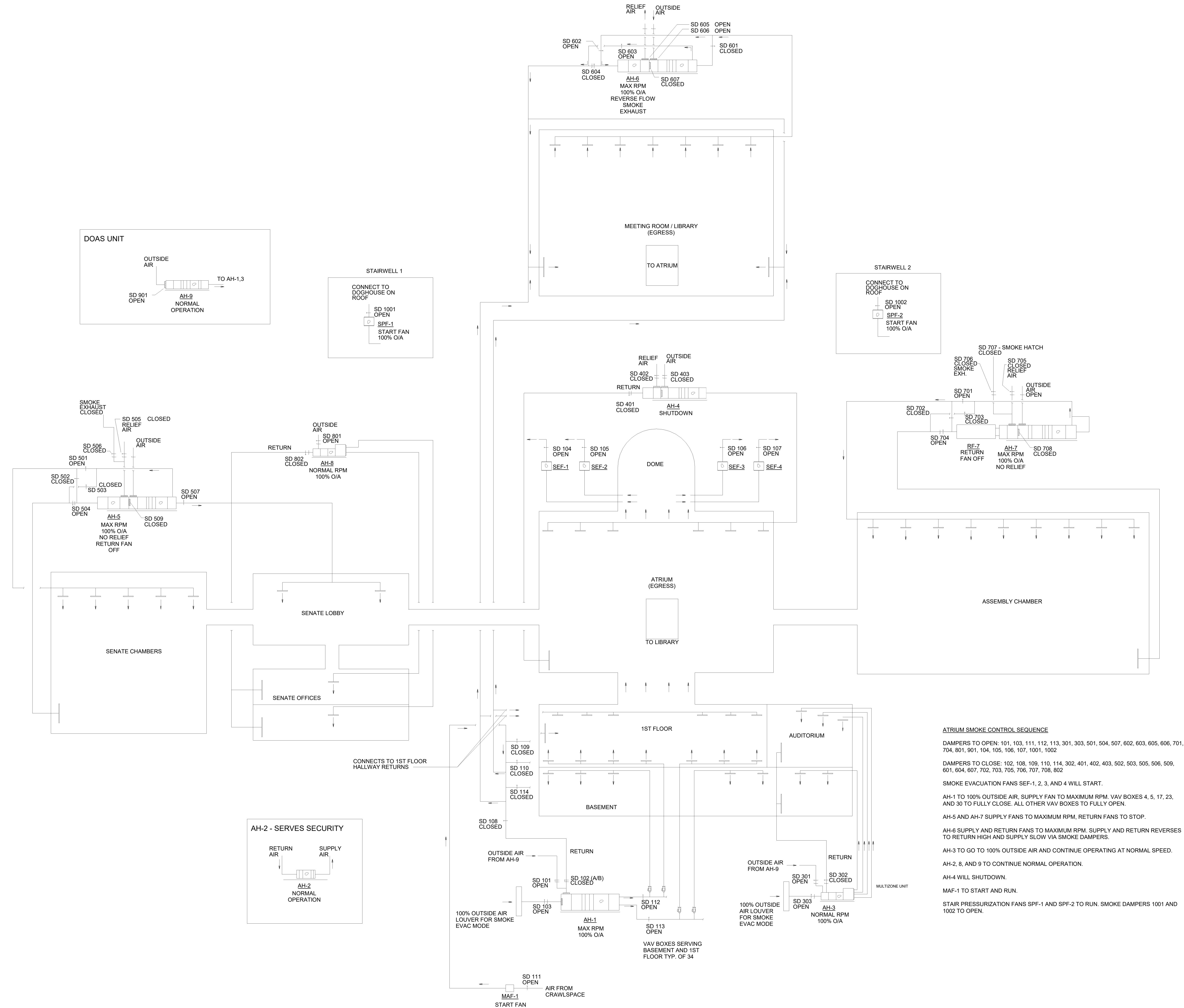


sheet title
CONTROLS SCHEMATIC -
ATRIUM SMOKE EVAC
OPERATION

sheet number

M5.5

drawn by BLM
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1 CONTROLS SCHEMATIC - ATRIUM SMOKE EVAC OPERATION
NTS

owner

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AND PROPERTY SERVICES

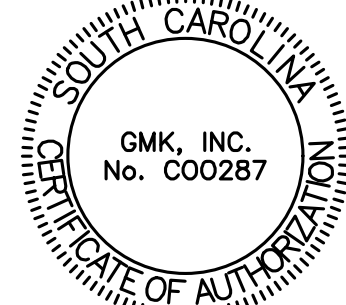
project name

SC STATE HOUSE - VAV
REPLACEMENT, HVAC CONTROLS
AND AHU NO. 1 RE-BUILD

project number

JOB NO. D50-6103-LC

seals/signature



issued for

CONSTRUCTION

date

12/10/25

number	item	date
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key plan

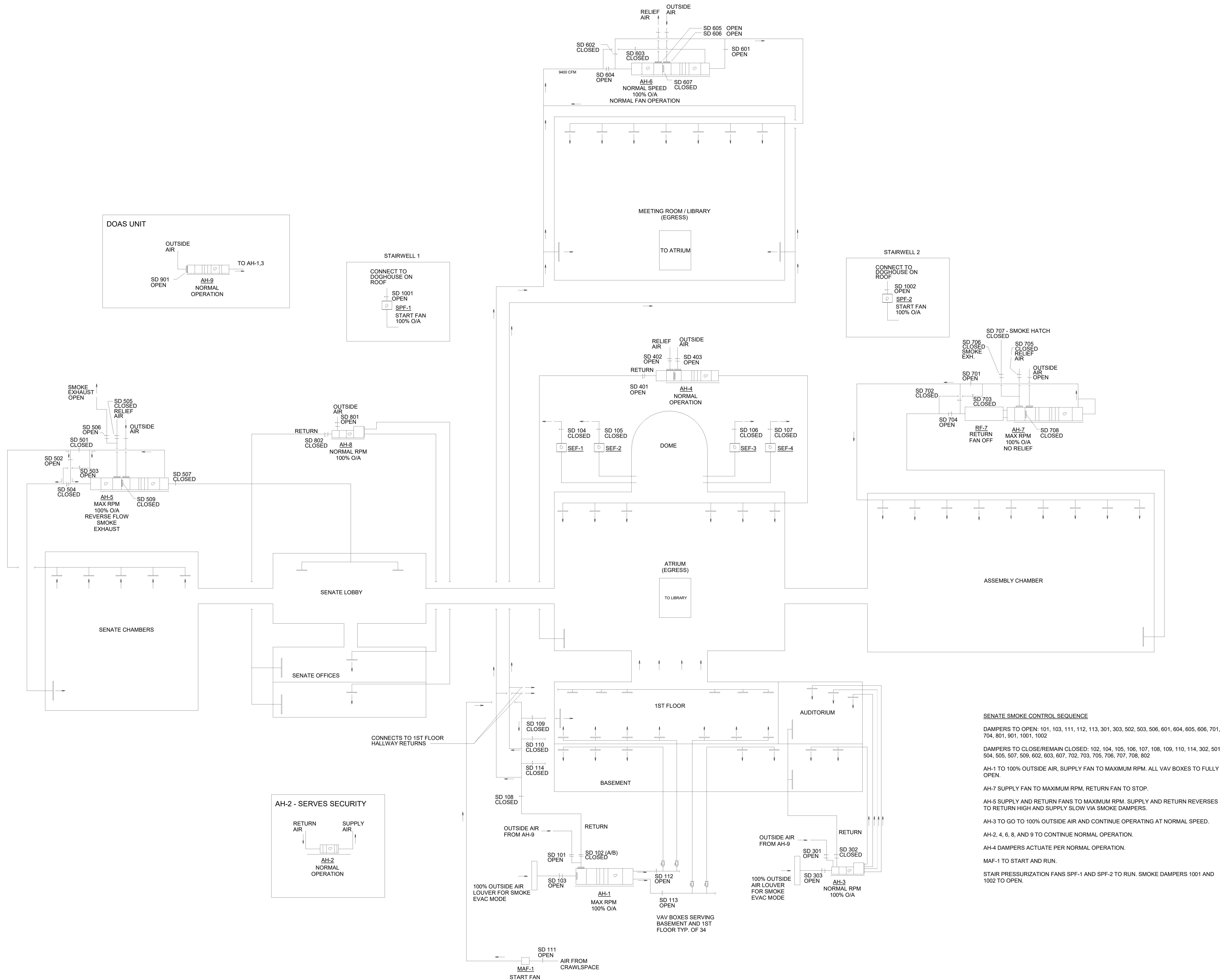
sheet title

CONTROLS SCHEMATIC -
SENATE SMOKE EVAC
OPERATION

sheet number

M5.6

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checked by Checker



CONTROLS SCHEMATIC - SENATE
SMOKE EVAC OPERATION
1/16" = 1'-0"

owner

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OF FACILITIES MANAGEMENT
AND PROPERTY SERVICES

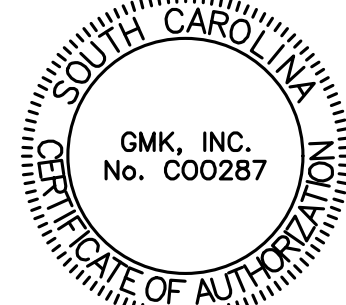
project name

SC STATE HOUSE - VAV
REPLACEMENT, HVAC CONTROLS
AND AHU NO. 1 RE-BUILD

project number

JOB NO. D50-6103-LC

seals/signature



issued for

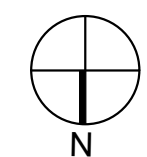
CONSTRUCTION

date

12/10/25

number	item	date
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key plan



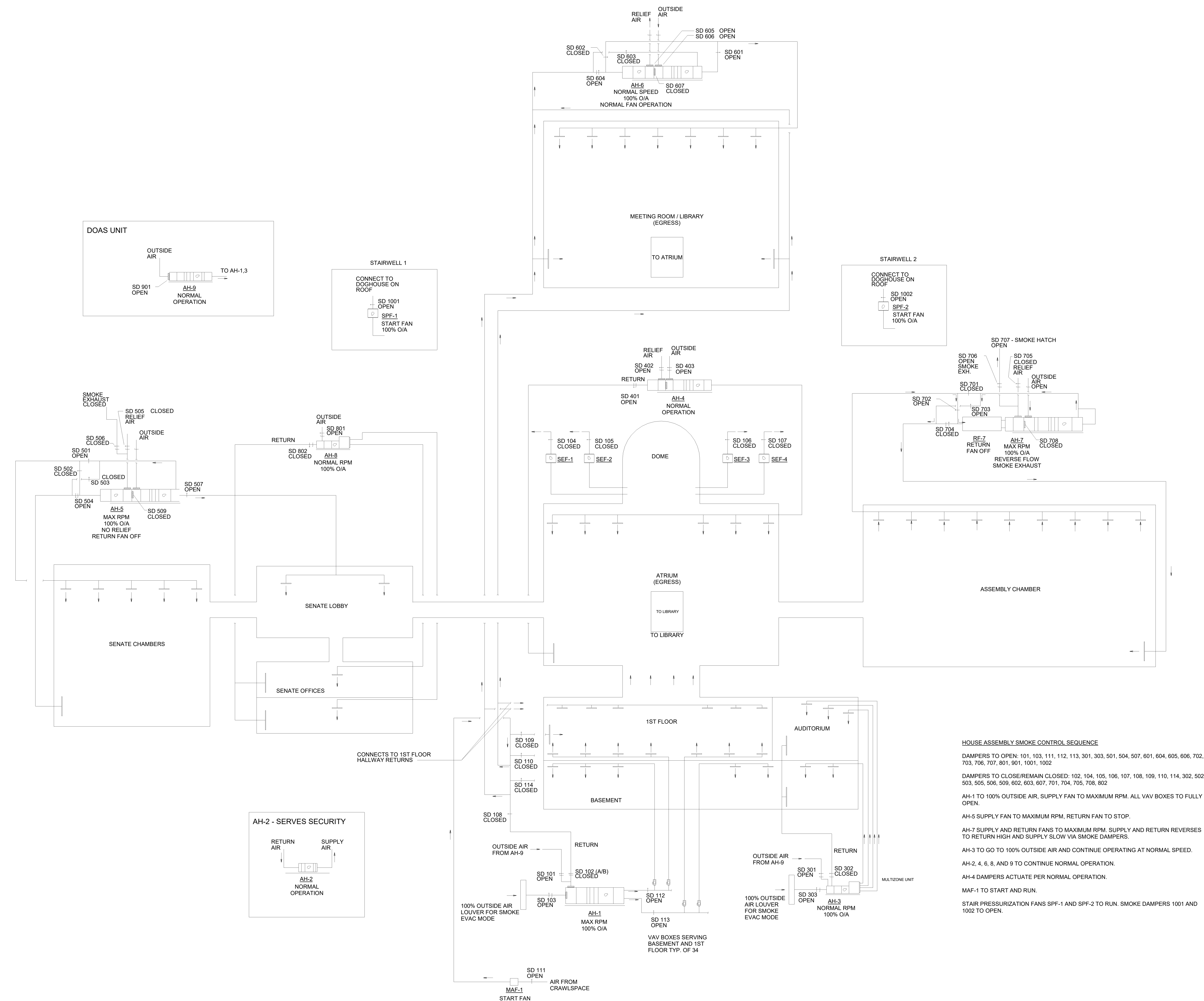
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CONTROLS SCHEMATIC -
ASSEMBLY SMOKE EVAC
OPERATION

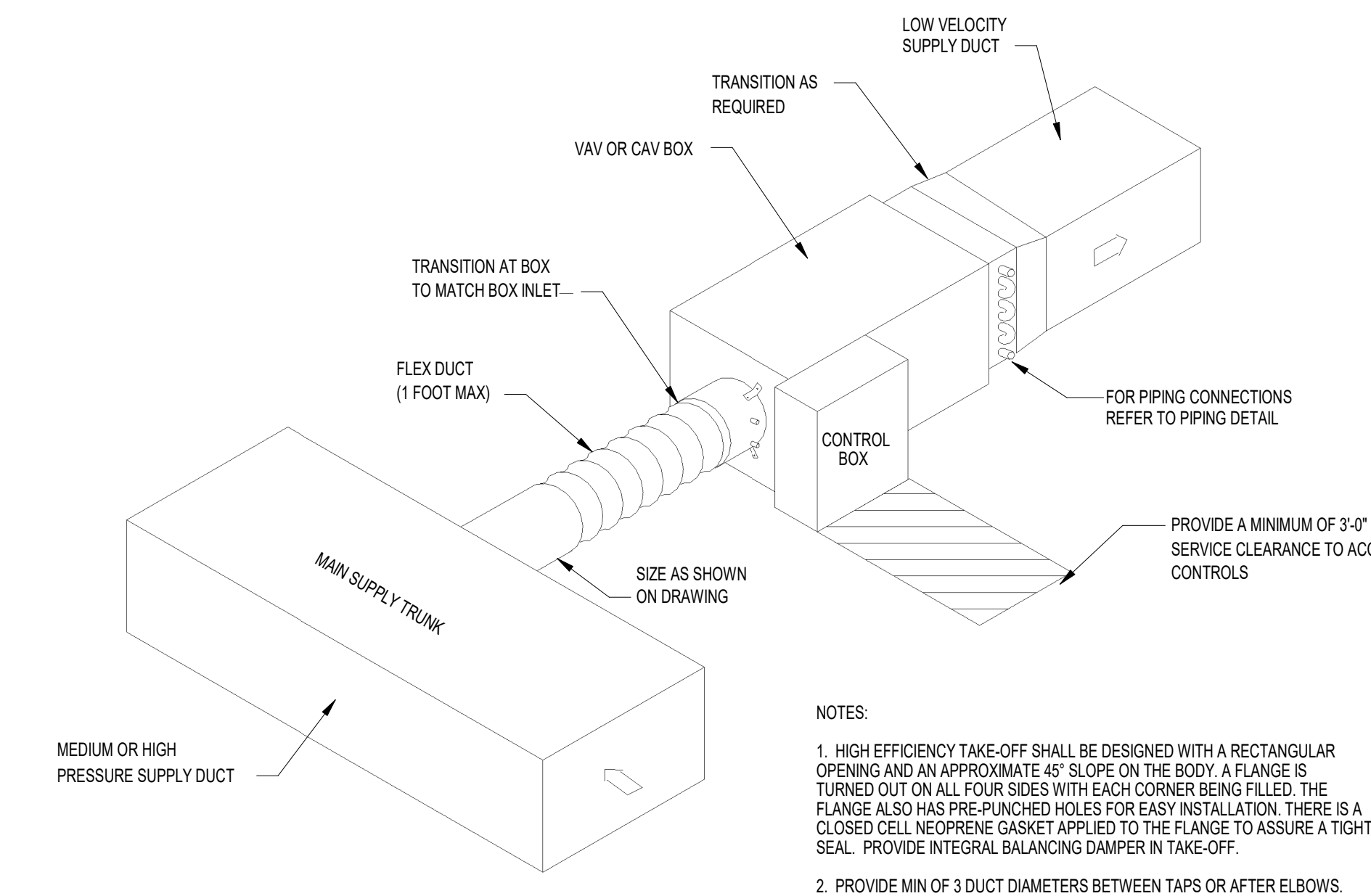
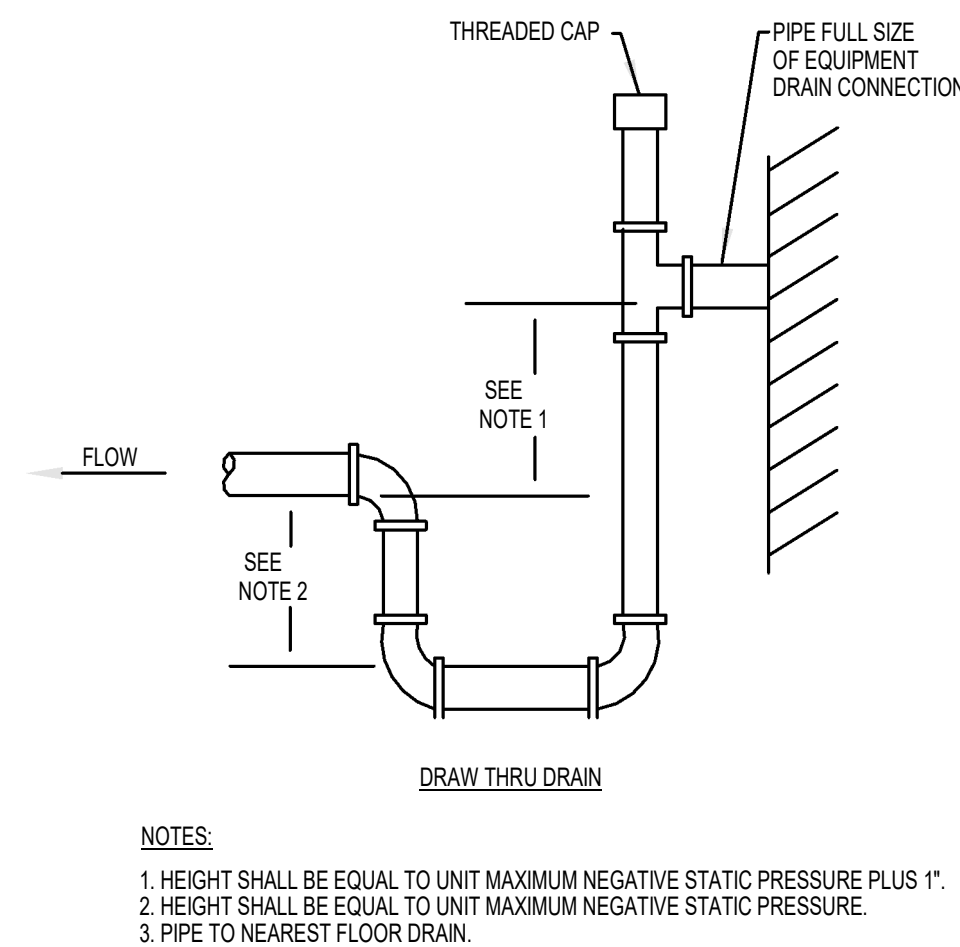
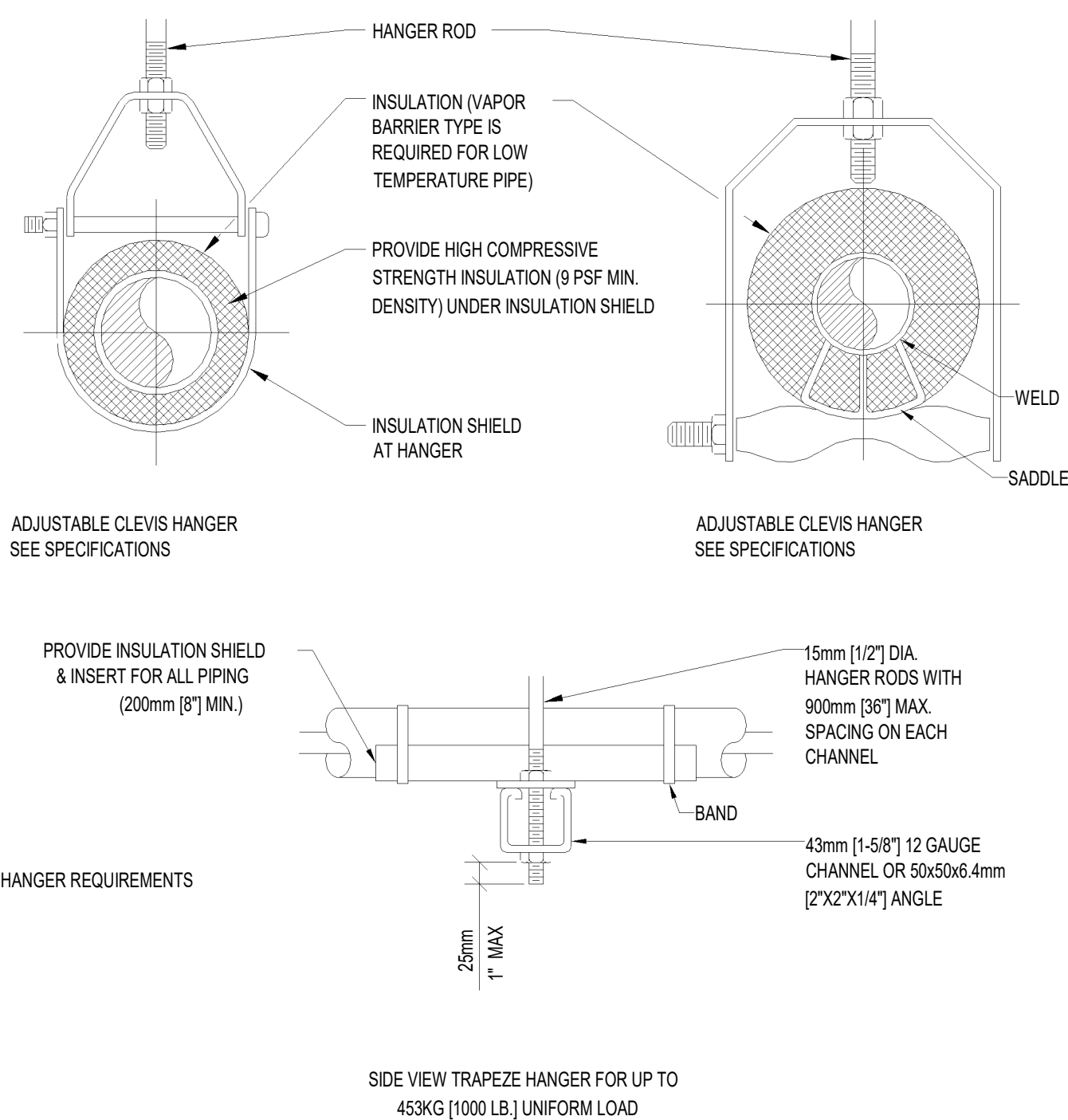
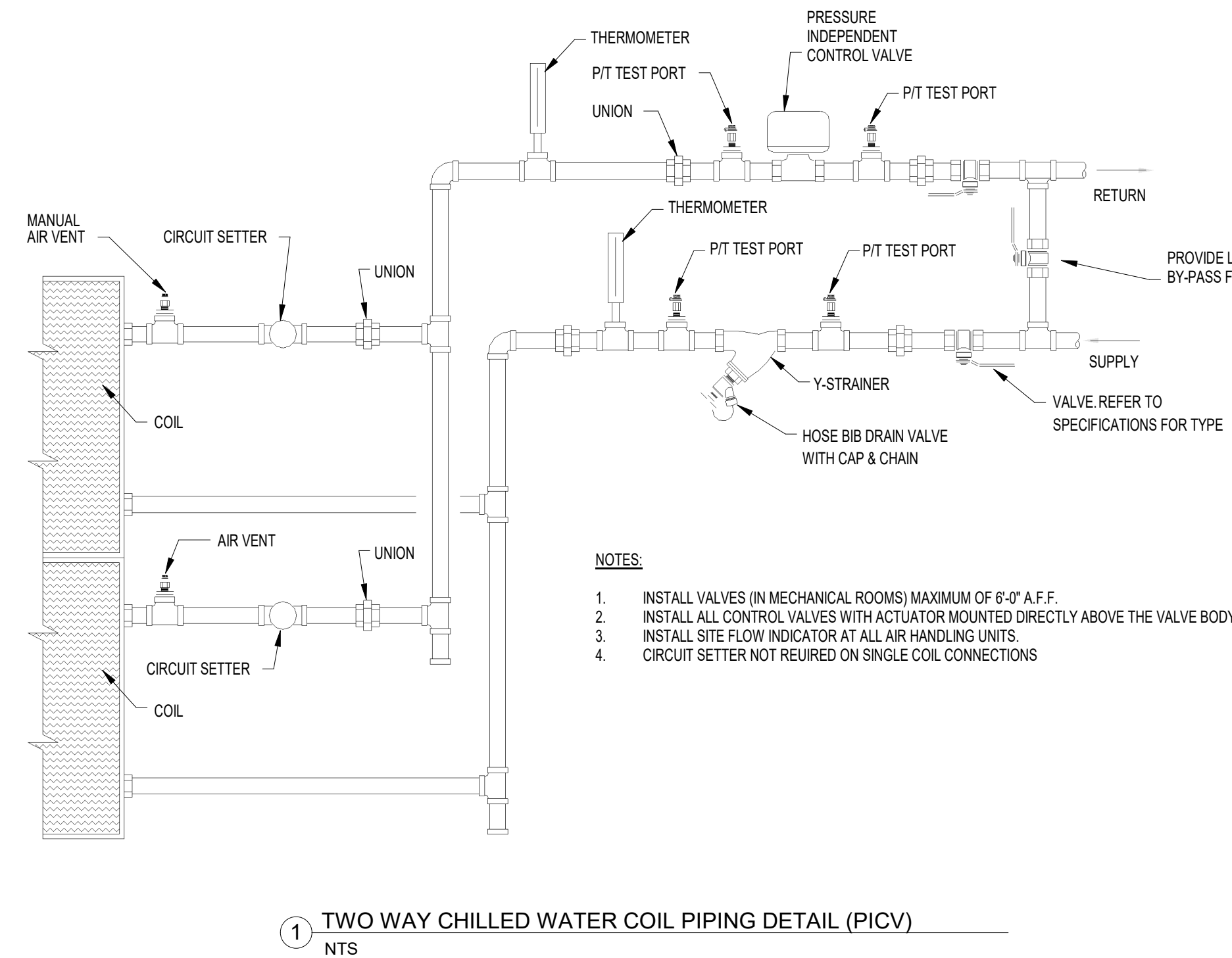
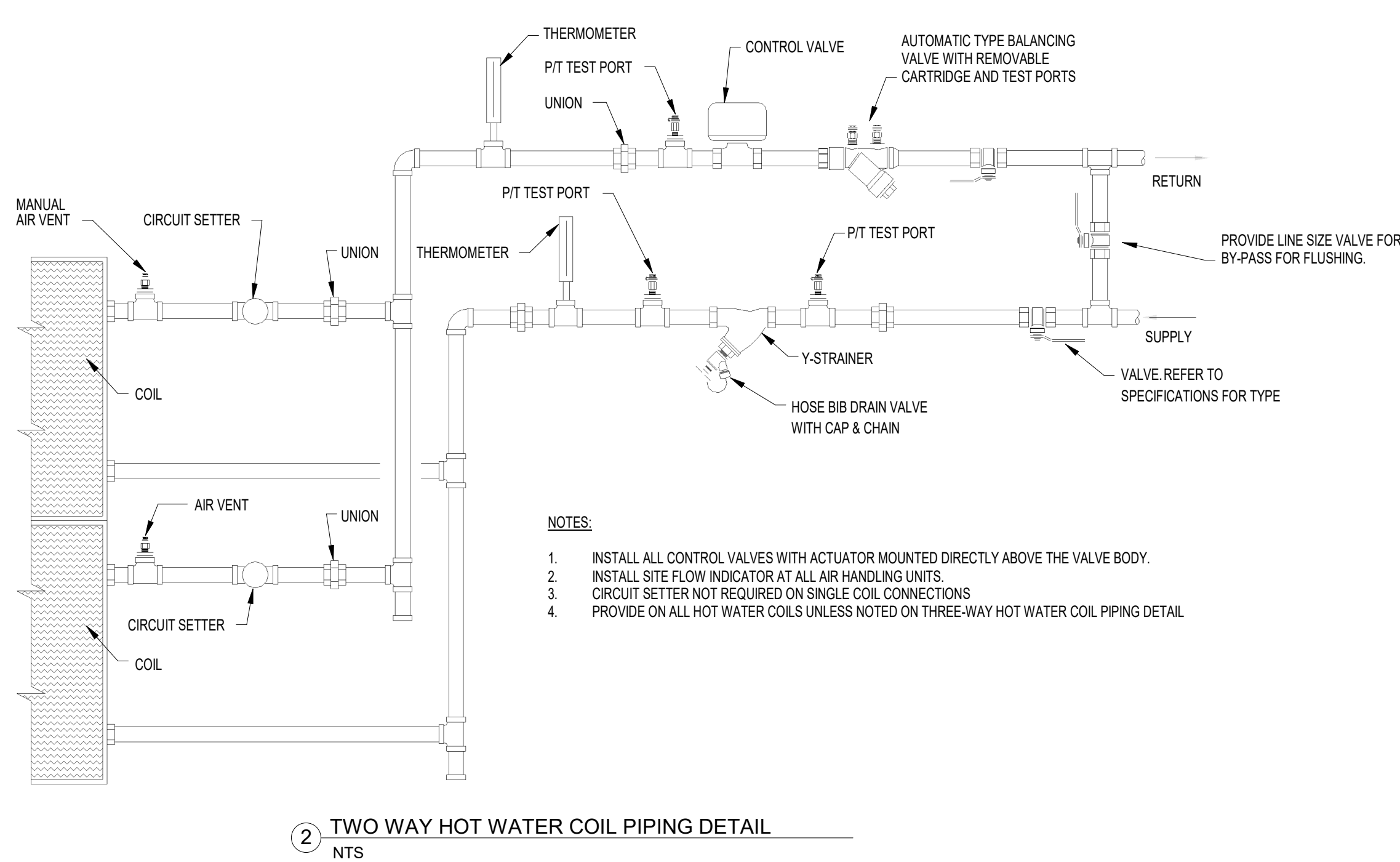
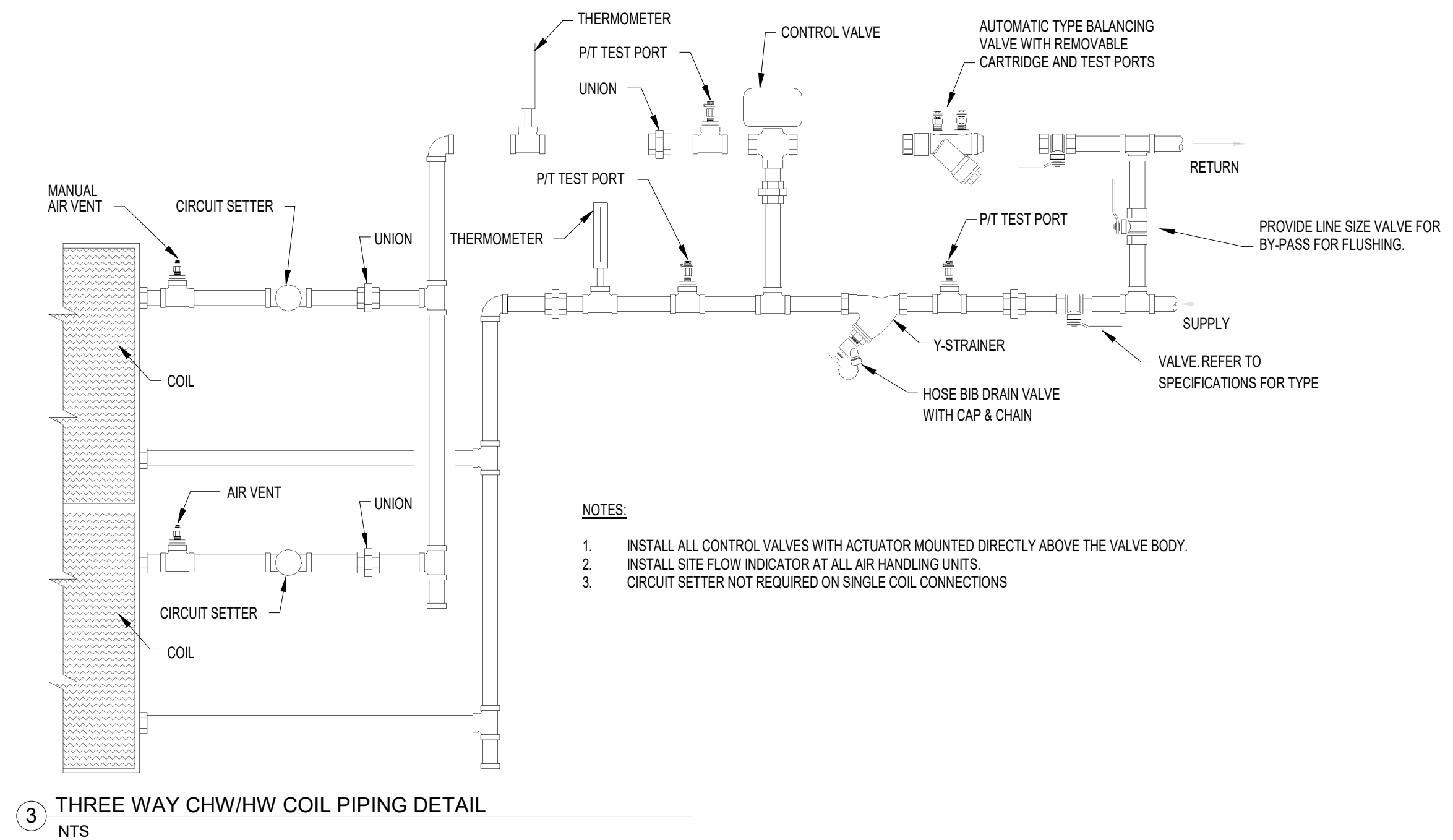
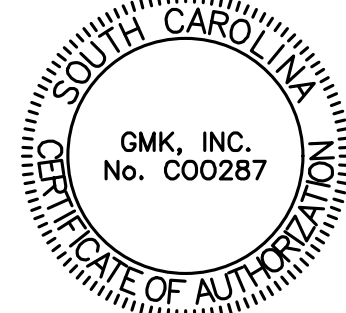
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M5.7

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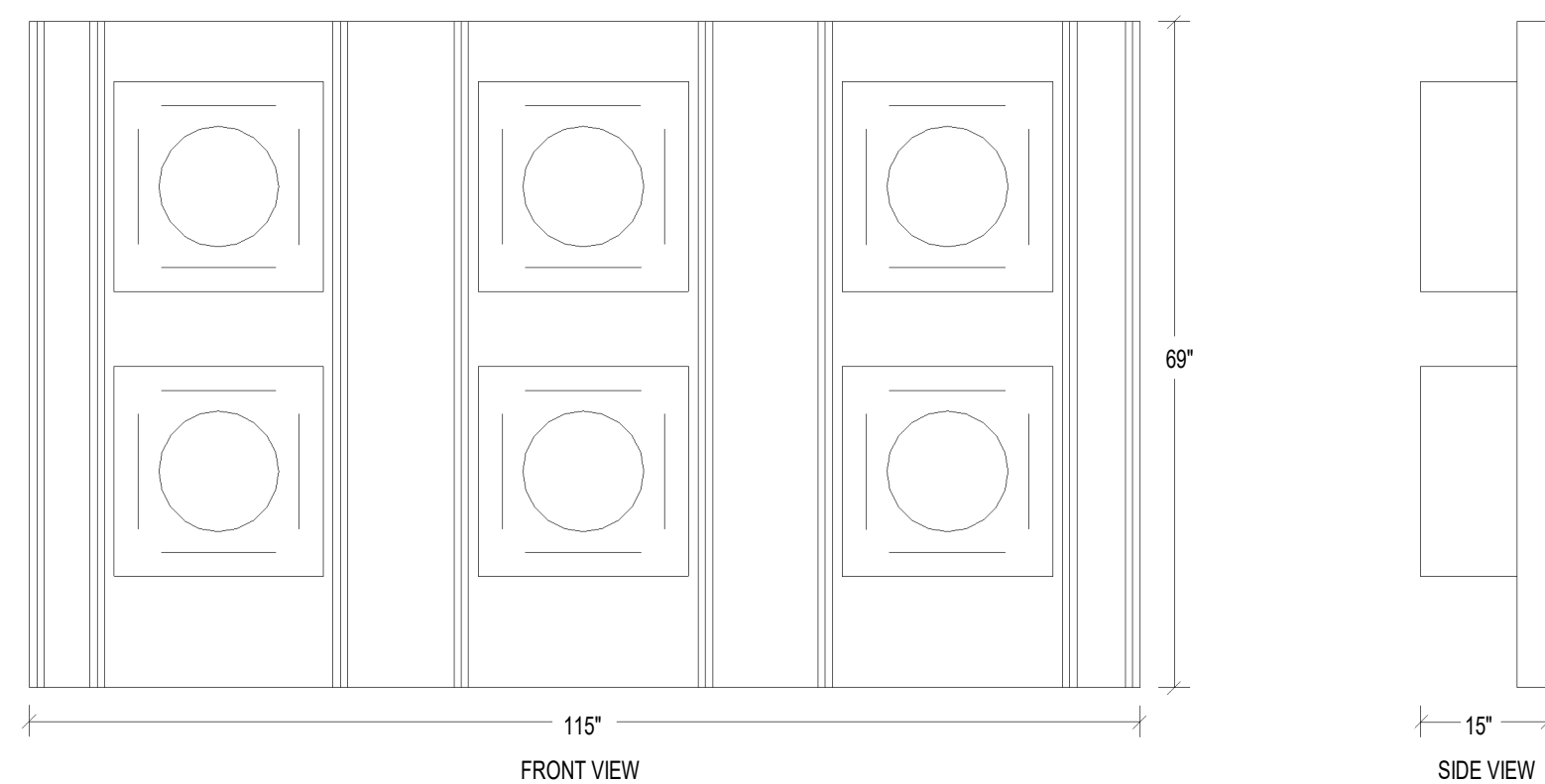
CONTROLS SCHEMATIC - ASSEMBLY
SMOKE EVAC OPERATION
1/16" = 1'-0"



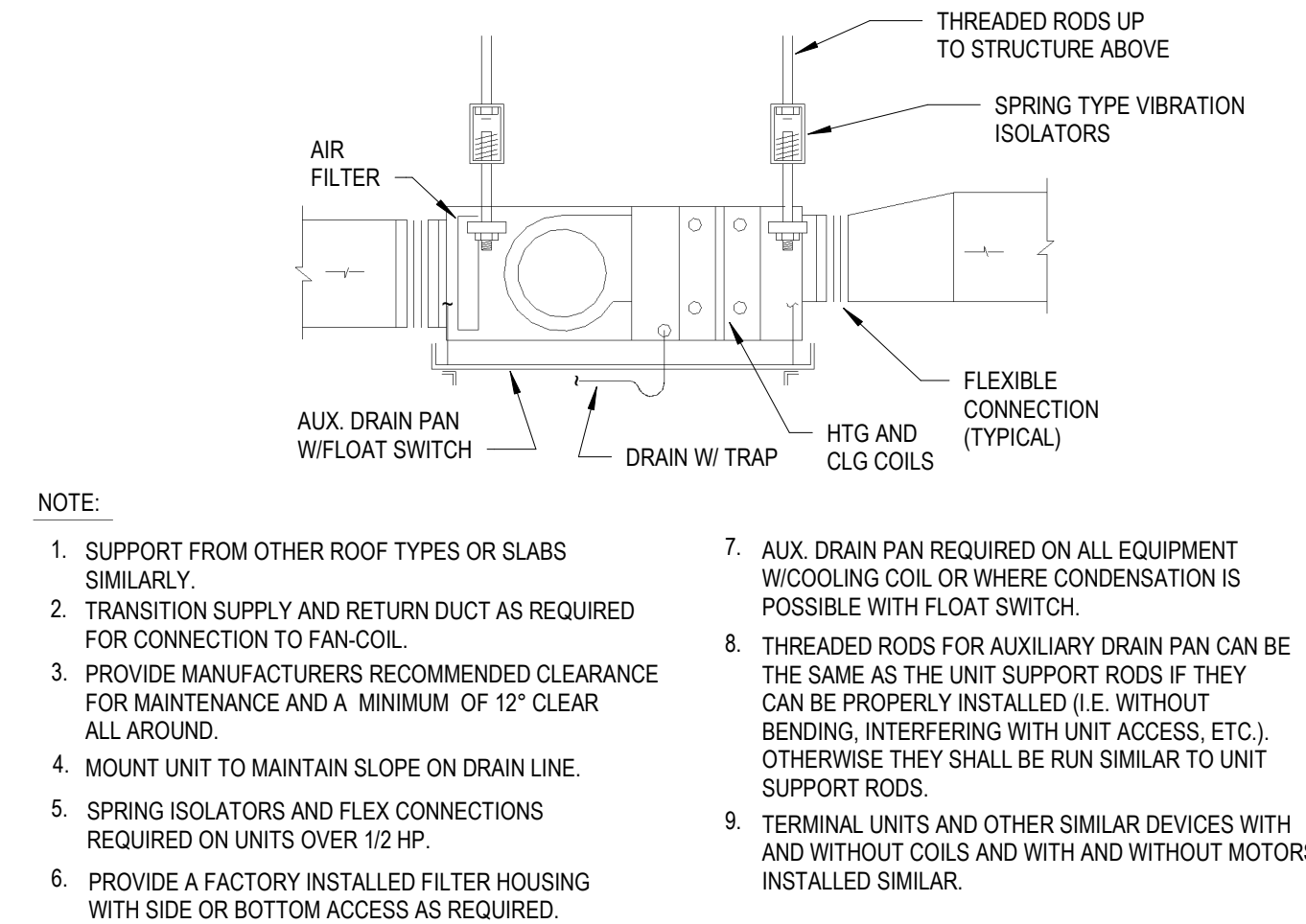
MAXIMUM PIPE/TUBING SUPPORT SPACING															
NOM. SIZE	mm [IN]	THRU 20 [THRU 3/4]	25 [1]	32 [1 1/4]	40 [1 1/2]	50 [2]	65 [2 1/2]	75 [3]	100 [4]	125 [5]	150 [6]	200 [8]	250 [10]	300 [12]	350 [14]
PIPE	mm [FT]	2100 [7]	2100 [7]	2100 [7]	2700 [9]	3000 [10]	3400 [11]	3700 [12]	4100 [14]	4900 [16]	5200 [17]	5800 [19]	6700 [22]	7000 [23]	7600 [25]
TUBING	mm [FT]	1500 [5]	1800 [6]	2100 [7]	2400 [8]	2700 [9]	3000 [10]	3700 [12]	4000 [13]	4100 [14]	4900 [16]	-	-	-	-

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

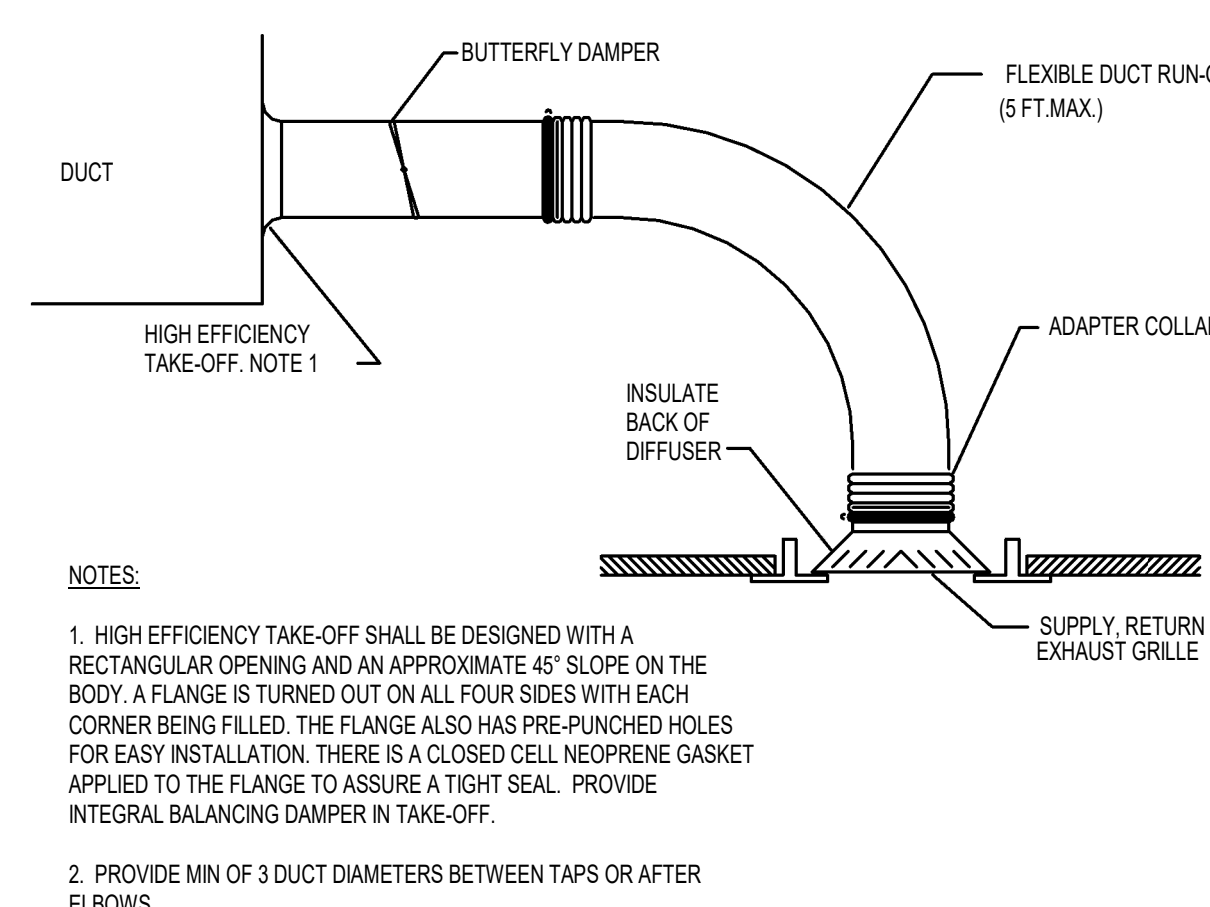
6 PIPE HANGER DETAIL
NTS



9 SUPPLY FAN ARRAY SFW-1
NTS



8 HORIZONTAL FAN COIL UNIT DETAIL
NTS



7 FLEX RUNOUT DETAIL
NTS

AIR DISTRIBUTION SCHEDULE									
TAG	DESCRIPTION	NECK	MODULE SIZE	MOUNT	CONSTR	MFGR	MODEL	NOTES	
A	SQUARE PLAQUE CEILING SUPPLY	AS SHOWN	24x24	LAY-IN	ALUMINUM	PRICE	SERIES ASPD	1,2,3,5	
B	PERFORATED CEILING RETURN/EXHAUST	AS SHOWN	24x24	LAY-IN	ALUMINUM	PRICE	SERIES APDR	3,5	
1. FURNISH WITH OPPOSED BLADE DAMPER 2. 4-WAY DEFLECTION UNLESS NOTED OTHERWISE 3. BAKED ENAMEL OFF-WHITE FINISH 4. PROVIDE RADIATION DAMPER AT FIRE RATED CEILING 5. INSTALL IN LAY-IN CEILING IN LINE WITH FIRE DAMPER AT HARD CEILING ABOVE 6. COORDINATE INSTALLATION OF GRILLE DIRECTLY OVER FIRE DAMPER - SEE DETAILS									

FAN COIL UNIT SCHEDULE																
TAG	TYPE	AIRFLOW	COOLING COIL			EAT (DB/WB °F)	LAT (DBWB °F)	HEATING COIL			MCA	MOCp	VOLTAGE	MANUFACTURER	MODEL	REMARKS
			TOTAL	SENS.	GPM			ENT/LWT (°F)	EATLAT (°F)	TOT. HTG (MBH)						
FC-B-1	VERT CABINET	669	18.2	14.7	4	45/54	75/63	55/54	18	1.9	180/140	73/98	2.2	15	208/1	NALOR E41VS 1,2,3,4,5,7
FC-B-2	VERT CABINET	669	18.2	14.7	4	45/54	75/63	55/54	18	1.9	180/140	73/98	2.2	15	208/1	NALOR E41VS 1,2,3,4,5,7
FC-B-3	VERT CABINET	669	18.2	14.7	4	45/54	75/63	55/54	18	1.9	180/140	73/98	2.2	15	208/1	NALOR E41VS 1,2,3,4,5,7
FC-B-4	VERT CABINET	669	18.2	14.7	4	45/54	75/63	55/54	18	1.9	180/140	73/98	2.2	15	208/1	NALOR E41VS 1,2,3,4,5,7
FC-B-5	HORIZONTAL	200	5.2	4.2	1.1	45/54	75/63	55/54	7.8	0.8	180/140	73/109	1.6	15	208/1	NALOR D37FZW 1,2,3,4,6,7
NOTES: 1. CONTRACTOR TO UNIT PIPING ORIENTATION AND SIDE PRIOR TO ORDERING EQUIPMENT. 2. PROVIDE WITH CONDENSATE PUMP AND OVERSIZED CABINET TO ACCOMMODATE PLACING PUMP INSIDE CABINET. 3. PROVIDE UNIT WITH DISCONNECT SWITCH, DRAIN PAN FLOT SWITCH, FILTER. 4. PROVIDE WITH SINGLE POINT POWER CONNECTION. 5. PROVIDE WITH UNIT MOUNTED THERMOSTAT, MOUNTED IN CONTROL CABINET. 6. PROVIDE WITH WALL MOUNTED THERMOSTAT. 7. CONNECT NEW UNIT TO NEW JCI CONTROL SYSTEM. COORDINATE WITH CONTROLS CONTRACTOR.																

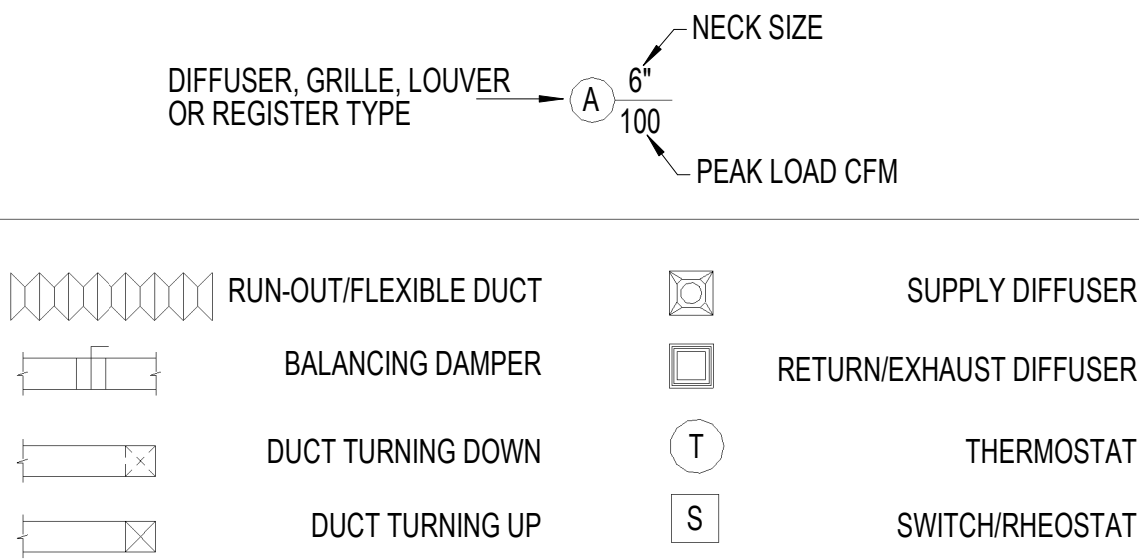
CHILLED WATER/HOT WATER COIL SCHEDULE													
#	TYPE	OVERALL DIMENSIONS (IN)	AIRFLOW	APD (IN WG)	MAX VELOCITY (FPM)	TOTAL (MBH)	SENSIBLE (MBH)	EAT (DB/WB °F)	LAT (DB/WB °F)	EWT (°F)	LWT (°F)	GPM	WPD (FT WATER)
CWC-1	STACKED	109.5 x 68	22915	0.47	500	560	558	75/60	52.6/51.0	45	55	111.6	6
HW-1	STACKED	109.5 x 68	22915	0.11	500	--	971	50/-	87.6/-	160	140	99.9	3.2
NOTES: 1. PROVIDE WITH COIL TURBULATORS. 2. HW COIL IN PRE-HEAT POSITION.													

FAN WALL SCHEDULE											
TAG	ARRAY	AIRFLOW	TOTAL EXT. S.P.	FAN RPM (EA)	FAN HP (EA)	SYSTEM MCA	SYSTEM MOCp	VOLTAGE	MANUFACTURER	MODEL	REMARKS
SPW-1	3 WIDE X 2 HIGH	22915	2.5	2746	7.5	44.3%	50	480/3	GREENHECK	MOA-400	1,2,3,4,5,6,7
NOTES: 1. SINGLE POINT POWER CONNECTION TO VFD CONTROLLER OF FAN 2. INLET DAMPER 3. AIRFLOW MEASURING PER FAN 4. EXTENDED CREASHE FITTINGS 5. HOUSED PLENUM ARRAY 6. ECM MOTORS 7. POWER FROM CONTROLLER TO FANS VIA PLUG AND PLAY QUICK CONNECT CABLES PROVIDED BY FAN MANUFACTURER.											

EXISTING SMOKE DAMPERS TO BE REPLACED					
SYMBOL	SIZE	AIRFLOW	MAX VELOCITY	MAX PD	NOTES
SD 101	28X16	2860	920	0.05	1
SD 102A	36X24	8595	1435	0.08	1
SD 102B	48X24	11460	1435	0.1	1
SD 103	54X32	22915	1920	0.15	1
SD 104	42X42	10000	820	0.05	1
SD 105	42X42	10000	820	0.05	1
SD 106	42X42	10000	820	0.05	1
SD 107	42X42	10000	820	0.05	1
SD 108	80X24	22915	1720	0.15	1
SD 109	36X16	6805	1720	0.1	1
SD 110	36X14	3075	880	0.05	1
SD 111	28X28	12600	2320	0.2	1
SD 112	32X32	16560	2330	0.2	1
SD 113	22X22	6355	1900	0.2	1
SD 114	FIELD VERIFY	3800	--	--	1
SD 301	28X10	1670	860	0.2	1
SD 302	40X20	4615	850	0.05	1
SD 303	40X16	6285	1420	0.1	1
SD 401	54X34	9550	750	0.1	1
SD 402	22X10	750	500	0.05	1
SD 403	24X48	9550	1200	0.05	1
SD 501	24X48	13000	1625	0.1	1, 2
SD 502	48X24	13000	1625	0.1	1
SD 503	FIELD VERIFY	13000	--	--	1
SD 504	48X24	13000	1200	0.08	1
SD 505	20X20	2390	900	0.08	1
SD 506	FIELD VERIFY	13000	--	--	1
SD 507	22X14	2000	950	0.08	1
SD 509	FIELD VERIFY	13000	--	--	1, 3
SD 601	48X24	13300	1675	0.15	1
SD 602	48X24	13300	1675	0.15	1
SD 603	48X24	13300	1675	0.15	1
SD 604	54X32	13300	1150	0.08	1
SD 605	66X24	13300	1250	0.05	1, 3
SD 606	66X24	13300	1250	0.05	1, 3
SD 607	FIELD VERIFY	13300	--	--	1, 3
SD 701	44X44	20500	1550	0.08	1
SD 702	72X24	20500	1750	0.1	1
SD 703	72X24	20500	1750	0.1	1
SD 704	60X40	20500	1250	0.08	1
SD 705	66X26	20500	1750	0.15	1
SD 706	48X24	4585	600	0.05	1
SD 708	FIELD VERIFY	20500	--	--	1
SD 801	32X8	1000	575	0.05	1
SD 802	24X28	2400	550	0.05	1
SD 901	48X16	6550	1250	0.08	1
SD 1001	14X14	1000	750	0.05	1
SD 1002	14X14	1000	750	0.05	1
NOTES: 1. ALL EXISTING DAMPER SIZES TO BE VERIFIED IN FIELD PRIOR TO ORDERING EQUIPMENT. 2. COMBINATION FIRE SMOKE DAMPER 3. DAMPER LOCATED IN AIR HANDLER. CONFIRM LOCATION/SIZE IN FIELD.					

EXISTING MOTOR OPERATED VALVE SCHEDULE TO BE REPLACED							
SYMBOL	LOCATION	LINE SIZE (IN.)	SERVICE	CAPACITY (GPM)	MAX Cv	ACTION MOD/2 POS	TYPE 2/3 WAY
MOV-CH1	AH-1	3	CHW	116.0	37.0	MOD	2 WAY
MOV-CH2	AH-2	1	CHW	5.5	1.6	MOD	2 WAY
MOV-CH3	AH-3	2	CHW	27.0	9.0	MOD	2 WAY
MOV-CH4	AH-4	2	CHW	44.0	15.0	MOD	2 WAY
MOV-CH5	AH-5	3	CHW	88.0	30.0	MOD	2 WAY
MOV-CH6	AH-6	2 1/2	CHW	70.0	17.0	MOD	3 WAY
MOV-CH7	AH-7	4	CHW	144.0	38.0	MOD	2 WAY
MOV-CH8	AH-8	2	CHW	26.0	10.0	MOD	2 WAY
MOV-CH9	AH-9	2 1/2	CHW	67.0	21.0	MOD	2 WAY
MOV-CH10	FC	3/4	CHW	1.0	0.50	2 POS	2 WAY
MOV-CH11	FC	3/4	CHW	1.4	0.50	2 POS	2 WAY
MOV-CH12	FC	3/4	CHW	1.6	0.65	2 POS	2 WAY
MOV-CH13	FC	3/4	CHW	1.8	0.65	2 POS	2 WAY
MOV-CH14	FC	3/4	CHW	2.5	0.80	2 POS	2 WAY
MOV-CH15	FC	3/4	CHW	2.5	0.85	2 POS	2 WAY
MOV-CH16	FC	3/4	CHW	2.8	0.85	2 POS	2 WAY
MOV-CH17	FC	3/4	CHW	2.8	0.90	2 POS	2 WAY
MOV-CH18	FC	3/4	CHW	3.6	1.20	2 POS	2 WAY
MOV-CH19	FC	1	CHW	6.4	1.80	2 POS	2 WAY
MOV-CH20	AH-10	3/4	CHW	1.6	0.70	2 POS	2 WAY
MOV-HW1	AH-1	3	HHW	93.0	32.0	MOD	3 WAY
MOV-HW2	AH-2	3/4	HHW	4.4	4.5	MOD	2 WAY
MOV-HW3	AH-3	1 1/4	HHW	16.0	6.0	MOD	2 WAY
MOV-HW4	AH-4	1 1/2	HHW	33.0	13.0	MOD	2 WAY
MOV-HW5	AH-5	2	HHW	53.0	20.0	MOD	2 WAY
MOV-HW6	AH-6	2	HHW	46.0	16.0	MOD	3 WAY
MOV-HW7	AH-7	2 1/2	HHW	83.0	28.0	MOD	2 WAY
MOV-HW8	AH-8	1 1/4	HHW	17.0	6.5	MOD	2 WAY
MOV-HW9	AH-9	1 1/2	HHW	37.0	19.0	MOD	2 WAY
MOV-HW10	VAV	3/4	HHW	1.0	0.50	2 POS	2 WAY
MOV-HW11	VAV	3/4	HHW	1.2	0.50	2 POS	2 WAY
MOV-HW12	VAV	3/4	HHW	1.3	0.50	2 POS	2 WAY
MOV-HW13	VAV	3/4	HHW	1.5	0.50	2 POS	2 WAY
MOV-HW14	VAV	3/4	HHW	1.5	0.60	2 POS	2 WAY
MOV-HW15	VAV	3/4	HHW	2.0	0.85	2 POS	2 WAY
MOV-HW16	VAV	3/4	HHW	3.0	1.10	2 POS	2 WAY
MOV-HW17	FC	3/4	HHW	1.0	0.50	2 POS	2 WAY
MOV-HW18	FC	3/4	HHW	1.3	0.50	2 POS	2 WAY
MOV-HW19	FC	3/4	HHW	1.3	0.55	2 POS	2 WAY
MOV-HW20	FC	3/4	HHW	1.5	0.60	2 POS	2 WAY
MOV-HW21	FC	3/4	HHW	1.6	0.55	2 POS	2 WAY
MOV-HW22	FC	3/4	HHW	2.9	1.00	2 POS	2 WAY
MOV-HW23	FC	3/4	HHW	2.9	1.10	2 POS	2 WAY
CV	CONVECTOR	3/4	HHW	2.0	0.80	2 POS	2 WAY
MOV-HW24	AH-9	1 1/4	HHW	21.0	7.0	MOD	2 WAY
MOV-HW25	AH-10	3/4	HHW	1.0	0.50	2 POS	2 WAY
NOTES: 1. FIELD VERIFY ALL VALVE SIZES AND TYPES PRIOR TO ORDERING REPLACEMENT VALVES. 2. VALVES PROVIDED AND WIRED BY CONTROLS CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR.							

HVAC LEGEND



ABBREVIATIONS

A/C	Air Conditioning	LAT	Leaving Air Temperature
AH	Air Handler	LWB	Leaving Air Wet Bulb
ABV	Above	MAF	Makeup Air Fan
AH-#	Air Handler - No. #	MAX	Maximum
AHU-#	Air Handler Unit - No. #	MBH	Thousand BTU/Hr (thousands)
BHP	Brake Horsepower	MIN	Minimum
CFM	Cubic Feet Per Minute	MAU-#	Make-up Air Unit - #
CHP	Chilled Water Pump	N/A	Not Applicable
CHWS	Chilled Water Supply	NIC	Not in Contract
CHWR	Chilled Water Return	NTS	Not to Scale
CP	Condensate Pump	OA	Outside Air
CWC	Chilled Water Coil	ODB	Opposed Blade Damper
DD	Duct Smoke Detector	OD	Outside Damper
DB	Dry Bulb Temperature	PD	Pressure Drop
DN	Duct Down	PRV	Pressure Reducing Valve
DOAS-#	Dedicated Outside Air Unit - #	RA	Return Air
EAT	Entering Air Temperature	RET	Return
EF	Exhaust Fan	RF	Return Fan
ELEC	Electric or Electrical	RH	Relative Humidity
EWB	Entering Air Wet Bulb	SA	Supply Air
EXH	Exhaust	SD	Smoke Damper
FC	Fan Coil	SWF	Supply Fan Wall
FD	Fire Damper	SW	Shield
FL	Floor	SP	Static Pressure
HP	Horsepower	SPEC	Specifications
HP-#	Heat Pump - #	SPEF	Stair Pressurization Fan
HWC	Hot Water Coil	T	Thermostat
HWP	Hot Water Pump	TEMP	Temperature
HWS	Hot Water Supply	TSTAT	Thermostat
HWR	Hot Water Return	TYP	Typical
HX	Heat Exchanger	UP	Duct Up
ILF	In-Line Fan	V-#	VAV Box
KH-#	Kitchen Hood - #	WB	Wet Bulb Temperature
KW	Kilowatts		

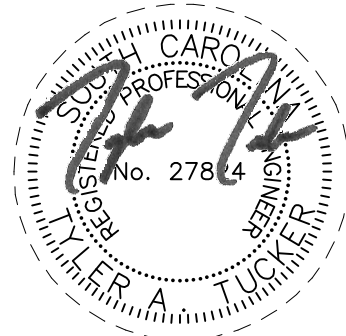
GENERAL MECHANICAL NOTES

- DO NOT SCALE DRAWINGS; SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC.
- EXTEND ALL DRAIN LINES TO NEAREST FLOOR DRAIN OR AS INDICATED. ROUTE TO AVOID INTERFERENCE WITH EXISTING DRAIN LINES TO NEAREST FLOOR DRAIN OR AS INDICATED. ROUTE TO AVOID INTERFERENCE WITH PASSAGEWAYS. CONDENSATE DRAINS SHALL BE TRAPPED. SLOPE DRAIN LINES 1/8" PER FOOT.
- ALL PIPING AND DUCTWORK INSULATION SHALL BE RUN CONTINUOUSLY THROUGH FLOORS, ROOFS AND PARTITIONS EXCEPT WHERE PROHIBITED BY FIRE CODES.
- LOCATE ALL THERMOSTATS, HUMIDISTATS AND SWITCHES 4'-0" ABOVE FINISH FLOOR; ALIGN WITH LIGHT SWITCHES.
- ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS AND FURTHER SUPPORTS OR HANGERS SHALL BE ADJACENT TO ELBOWS, TO PREVENT WEIGHT OF PIPING BEING PLACED ON THE EQUIPMENT. SUPPORT DETAILS SHALL BE SUBMITTED TO THE MECHANICAL ENGINEER.
- ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH THE WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE.
- CORRECT SETTINGS ON ALL BALANCING FITTINGS SHALL BE PERMANENTLY MARKED.
- AIR DISTRIBUTION SYSTEMS WITH MORE THAN ONE BRANCH, OR MULTIPLE OUTLETS ON A BRANCH, SHALL HAVE VOLUME DAMPERS TO BALANCE AIR FLOWS. SPIN-IN FITTINGS ARE PERMITTED FOR CONNECTING FLEX DUCT TO BRANCH OR TRUNK DUCTS WHERE FLEX DUCTS ARE INDICATED. IF FLEX DUCT CANNOT BE CONNECTED WITH A SPIN-IN, A HARD DUCTED TAKEOFF MUST BE PROVIDED.
- 45 DEGREE TAKEOFFS SHALL BE USED ON ALL HARD DUCTED SUPPLY BRANCHES.
- ALL PIPING, DUCTS, VENTS, ETC. EXTENDING THRU EXTERIOR WALLS AND ROOFS SHALL BE FLASHED AND COUNTERFLASHED.
- PROVIDE ALL TRANSITIONS REQUIRED FOR INSTALLATION OF DUCT, DUCT HEATERS, AIR VOLUME CONTROLLERS, FAN COIL UNITS, EXHAUST FANS, SUPPLY FANS, AND ALL OTHER EQUIPMENT AND APPURTENANCES.
- ALL DUCT IS GALVANIZED SHEET METAL EXCEPT AS NOTED.
- DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
- INTAKES FOR AIR HANDLING EQUIPMENT SHALL BE A MINIMUM OF TEN FEET AWAY FROM ANY EXHAUST OR VENT.
- AIR DISTRIBUTION UNITS SHALL HAVE TRIM REQUIRED FOR FINISHED SERVICE.
- PROVIDE DIELECTRIC FITTINGS AT ALL LOCATIONS WHERE DISSIMILAR METALS ARE JOINED IN PIPING AND DUCT SYSTEMS.
- ALL SMOKE DETECTORS SHOULD BE MINIMUM 3'-0" AWAY FROM SUPPLY DIFFUSERS.
- JCI IS SOLE SOURCE CONTROLS CONTRACTOR FOR THIS PROJECT. ALL CONTROLS COORDINATION WILL BE THROUGH THE JCI CONTRACTOR.
- CONTRACTOR HAS THE OPTION TO USE EQUIVALENT ROUND DUCT IN LIEU OF RECTANGULAR AS SPECIFIED.
- ALL MITERED ELBOWS SHALL HAVE TURNING VANES.
- ALL DUCT RUN-OUTS TO DIFFUSERS SHALL BE GRILLE SIZE UNLESS OTHERWISE NOTED.
- COORDINATE ALL CEILING AIR DISTRIBUTION LOC

consultant:

project name
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project number
JOB NO. D50-6103-LC

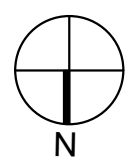
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key plan












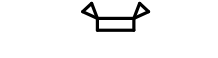
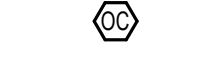


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- | ABBREVIATIONS | |
|---------------|--|
| A | AMPERE |
| AF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| BKR | BREAKER |
| | CINQUET |
| CATV | CABLE TELEVISION CIRCUIT |
| CRT | CROUET |
| EC | ELECTRICAL CONTRACTOR, DIVISION 26 (DW 26) |
| EE | EXHAUST FAN |
| EUT | ELECTRICAL METALLIC TUBING |
| FCU | FAN COIL UNIT |
| GC | GROUND CONTRACTOR, DIVISION 00 THROUGH 14 |
| GF | GROUND FAULT CIRCUIT INTERRUPTER |
| GRS | GALVANIZED RIGID STEEL CONDUIT |
| HD | HIGH INTENSITY DISCHARGE |
| IG | DEVICE SHALL HAVE ISOLATED GROUND. SEE SPECIFICATIONS. |
| | INTERMEDATE METALLIC CONDUIT. |
| JB or JBOX | JUNCTION BOX |
| KVA | KILOVOLT AMPERES |
| KW | KILOWATT |
| MAX | MAXIMUM |
| MC | MECHANICAL CONTRACTOR, DIVISION 23 (DW 23) |
| MDP | MAIN DISTRIBUTION PANEL |
| MN | MINIMUM |
| MFR | MANUFACTURER |
| NMC | NONMETALLIC-SHEATHED CABLE |
| V | VOLT |
| NEC | NATIONAL ELECTRICAL CODE (NFPA 70) |
| SWED | SWITCHBOARD |
| TYP | TYPICAL |
| UNO | UNLESS NOTED OTHERWISE |
| WC | WATER COOLER |
| XFMR | TRANSFORMER |

ELECTRICAL SYMBOL SCHEDULE - POWER	
POWER	
	120V, 20A DUPLEX RECEPTACLE, NEMA 5-20R, WALL MOUNTED, REFER TO TYPICAL MOUNTING HEIGHTS DETAIL. REFER TO ADDITIONAL NOTATIONS BELOW WHERE INDICATED ON DRAWINGS.
	120V, 20A DUPLEX RECEPTACLE, NEMA 5-20R, WALL MOUNTED AT 42" AFF OR 6" ABOVE COUNTERTOP OR BACKSPASH, UNLESS OTHERWISE NOTED. REFER TO ADDITIONAL NOTATIONS BELOW WHERE INDICATED ON DRAWINGS. RECEPTABLES NOTED "TV" SHALL BE MOUNTED AT 6" AFF, UNLESS OTHERWISE SPECIFIED.
	120V, 20A QUADRAPLEX RECEPTACLE CONSISTING OF TWO DUPLEX RECEPTACLES IN COMMON BACKBOX, NEMA 5-20R, WALL MOUNTED, REFER TO TYPICAL MOUNTING HEIGHTS DETAIL. REFER TO ADDITIONAL NOTATIONS BELOW WHERE INDICATED ON DRAWINGS.
	120V, 20A QUADRAPLEX RECEPTACLE CONSISTING OF TWO DUPLEX RECEPTACLES IN COMMON BACKBOX, NEMA 5-20R, WALL MOUNTED AT 42" AFF OR 6" ABOVE COUNTERTOP OR BACKSPASH, UNLESS OTHERWISE NOTED. REFER TO ADDITIONAL NOTATIONS BELOW WHERE INDICATED ON DRAWINGS.
	120V, 20A QUADRAPLEX RECEPTACLE CONSISTING OF TWO DUPLEX RECEPTACLES IN COMMON BACKBOX, NEMA 5-20R, WALL MOUNTED AT 18" AFF, WITH SINGLE DUPLEX RECEPTABLE WALL MOUNTED ABOVE AT 6" AFF, UNLESS OTHERWISE NOTED. REFER TO ADDITIONAL NOTATIONS BELOW WHERE INDICATED ON DRAWINGS.
	ELECTRIC MOTOR OR EXHAUST FAN. PROVIDE LOCAL MEANS OF DISCONNECT PER NEC RATED TO SUIT LOAD WHERE NOT FACTORY EQUIPPED. CONNECTION AS REQUIRED.
	HEAVY DUTY DISCONNECT SWITCH. SEE SCHEDULE.
	EXISTING MOTOR STARTER.
	HEAVY DUTY DOUBLE POLE, SINGLE THROW 20A, 1P RATED TOGGLE SWITCH, WHERE INDICATED SERVING MECHANICAL EQUIPMENT SWITCH IS TO BE INSTALLED ADDITIONAL TO EQUIPMENT TO SERVE AS LOCAL DISCONNECTING MEANS. FIELD COORDINATE.
	DOOR OPERATOR PUSH PLATE. REFER TO VENDOR INSTALLATION INSTRUCTIONS AND MOUNT AT HEIGHT AS REQUIRED BY ADA. PROVIDE APPROPRIATE BACKBOX FOR DEVICE TO BE INSTALLED AND PROVIDE WIRING TO MOTORIZED DOOR OPERATOR CONCEALED IN WALLS AS REQUIRED FOR COMPLETE INSTALLATION. COORDINATE WITH EQUIPMENT VENDOR AND ARCHITECTURAL DRAWINGS.
	MOTORIZED DOOR OPERATOR. VERIFY CONTACT TYPE WITH ARCHITECTURAL DOOR AND HARDWARE SCHEDULES AND EQUIPMENT BEING FURNISHED. PROVIDE RACEWAY AND WIRING AS REQUIRED TO WIRE MOUNTED MANUAL PUSH PLATES OR AUTOMATIC MOTOR SENSOR AS REQUIRED FOR EACH LOCATION. COORDINATE WITH HARDWARE BEING FURNISHED AND PROVIDE LABOR AND MATERIALS AS REQUIRED TO CONNECT COMPLETE.
	MULTI-SERVICE PANEL / COMMUNICATIONS FLOOR BOX. "POKE THRU" DEVICE WHERE INSTALLED ON UPPER FLOORS. PROVIDE QUAD OUTLET WITH 120V/200V AS SPECIFIED. PROVIDE 2 - 1/8" FC. FOR COMMUNICATIONS SERVICES. ROUTE BELOW GRADE TO NEAREST VERTICAL WALL, LINE TO CEILING SPACE ABOVE AND ROUTE OVERHEAD TO EITHER CABLE TRAY OR COMMUNICATIONS RAIL.
	GROUNDING TERMINAL FOR COMMUNICATIONS PLYWOOD. CONNECT TO GROUND OF ELECTRICAL PANEL SPECIFIED ON DRAWINGS.
WIRING DEVICE TYPICAL NOTATIONS	
GFI	GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLE.

ELECTRICAL SYMBOL, SCHEDULE - LIGHTING SYSTEMS AND ACCESSORIES	
LIGHT FIXTURES	
	CEILING MOUNTED LIGHT FIXTURE. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE AND MOUNTING. SEE RECESSED LAY-IN FIXTURE DETAIL FOR LAY-IN FIXTURES MOUNTED IN CEILING GRD.
	WALL MOUNTED LIGHT FIXTURE. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE. MOUNTING HEIGHTS AS INDICATED ON DRAWINGS OR IN LIGHT FIXTURE SCHEDULE OR AS DIRECTED BY OWNER.
	CEILING MOUNTED LIGHT FIXTURE. CONNECTED TO THE EMERGENCY GENERATOR AS SPECIFIED VIA ELC DEVICE. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE AND MOUNTING. SEE RECESSED LAY-IN FIXTURE DETAIL FOR LAY-IN FIXTURES MOUNTED IN CEILING GRD.
	CEILING MOUNTED LIGHT FIXTURE. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE AND MOUNTING. PROVIDE MOUNTING HARDWARE APPROPRIATE FOR TYPE OF CEILING WHERE FIXTURE IS INSTALLED. SEE ARCHITECTURAL REFLECTED CEILING PLAN.
	EXISTING PENDANT MOUNTED OR SURFACE CEILING MOUNTED LIGHT FIXTURE.
	EXISTING SURFACE CEILING MOUNTED LIGHT FIXTURE.
	EXISTING RECESSED CEILING MOUNTED LIGHT FIXTURE.
	EXISTING STRIP LIGHT FIXTURE.
	LED EXIT SIGN WITH INTEGRAL EGRESS HEADS. WALL OR CEILING MOUNTED. STEM DENOTES WALL MOUNTED. SINGLE FACE FOR WALL MOUNTED. FACES AS INDICATED BY DASHED AREAS FOR CEILING MOUNTED. ARROWS DENOTE CHEVYONS INDICATING DIRECTION OF EXIT AS INDICATED ON DRAWINGS. REFER TO LIGHTING FIXTURE SCHEDULE FOR TYPE.
	REMOTE LED EMERGENCY LIGHTS. CIRCUIT TO ADJACENT LED EXIT SIGN FOR POWER. REFER TO LIGHTING FIXTURE SCHEDULE FOR TYPE AND MOUNTING INSTRUCTIONS.
	WALL OR CEILING MOUNTED FLOOD LIGHT OR FACADE LIGHT. REFER TO LIGHTING FIXTURE SCHEDULE FOR TYPE.
	LED EMERGENCY LIGHTING UNIT. REFER TO LIGHTING FIXTURE SCHEDULE FOR TYPE. MOUNT AT 76" AFF UNLESS OTHERWISE NOTED.
LIGHT FIXTURE TYPICAL NOTATIONS	
A	DENOTES LIGHT FIXTURE OR LUMINAIRE TYPE. SEE LIGHT FIXTURE SCHEDULE (FIXTURE TYPE A IN THIS EXAMPLE).
P-11	PANELBOARD AND CIRCUIT NUMBER (PANELBOARD P, CIRCUIT 11 IN THIS EXAMPLE). SEE PANEL SCHEDULES.
P-11a	DENOTES LIGHT FIXTURE OR LUMINAIRE CONTROLLED BY THE CORRESPONDING LIGHT SWITCH, CONTROL DEVICE, OR SWITCH LEG (LIGHT SWITCH, CONTROL DEVICE OR SWITCH LEG a IN THIS EXAMPLE). THIS NOTATION TYPICALLY FOLLOWS THE CIRCUIT NUMBER NOTATION (PANEL P, CIRCUIT 11; LIGHT SWITCH, CONTROL DEVICE OR SWITCH LEG a IN THIS EXAMPLE, BUT MAY NOT FOLLOW A CIRCUIT NUMBER WHEN PROVIDING ADDITIONAL INFORMATION FOR AN EXISTING LIGHT FIXTURE.
NL	DENOTES LIGHT FIXTURE THAT SERVES AS A NIGHT LIGHT AND IS TO BE CONNECTED TO UNSWITCHED LIGHTING CIRCUIT TO RUN CONTINUALLY.
LIGHTING CONTROL DEVICES	
\$	SPECIFICATION GRADE WALL SWITCH, SINGLE POLE, 20A, 120-277V. UNLESS NOTED OTHERWISE, PROVIDE NEUTRAL CONDUCTOR TO ALL SWITCH LOCATIONS. WHERE SUBSCRIPT DESIGNATIONS ARE INDICATED ADJACENT TO DEVICE, SEE SWITCHING DEVICE SUBSCRIPT DESIGNATIONS BELOW FOR ADDITIONAL REQUIREMENTS.
	CEILING MOUNTED LOW VOLTAGE 360° COVERAGE OCCUPANCY SENSOR, DUAL TECHNOLOGY UNLESS OTHERWISE NOTED ON DRAWINGS. WATTSSTOPPER DT-3000S OR EQUIVALENT. 1P DENOTES PASSIVE INFRARED TYPE (WATTSSTOPPER CS-3000S), 1U DENOTES ULTRASONIC TYPE (WATTSSTOPPER WT SERIES). PROVIDE QUANTITY OF POWER PAKS AS REQUIRED TO SUIT LOAD. PROVIDE SIGNAL CABLEING AS REQUIRED TO LINK MULTIPLE SENSORS/POWER PAKS SERVING COMMON AREA OR LIGHTING ZONE.
SWITCHING DEVICE SUBSCRIPT DESIGNATIONS AND NOTATIONS	
3	3-WAY SWITCH
D	120V LED DIMMER SWITCH 4-10W, SUITABLE FOR LOADS CONTROLLED, SUPPLIED BY LITRON OR OTHER APPROVED MANUFACTURERS. PROVIDE NEUTRAL CONDUCTOR TO ALL SWITCH LOCATIONS.
OC	120-277V OCCUPANCY SENSOR WALL SWITCH. PASSIVE INFRARED TYPE UNLESS OTHERWISE NOTED ON DRAWINGS. WATTSSTOPPER PW-100 OR EQUIVALENT. 1U DENOTES ULTRASONIC TYPE (WATTSSTOPPER WT SERIES). PROVIDE QUANTITY OF POWER PAKS AS REQUIRED TO SUIT LOAD. PROVIDE SIGNAL CABLEING AS REQUIRED TO LINK MULTIPLE SENSORS/POWER PAKS SERVING COMMON AREA OR LIGHTING ZONE.
Da	DENOTES LIGHT SWITCH OR CONTROL DEVICE THAT CONTROLS THE CORRESPONDING SWITCH LEG AND ALL LIGHT FIXTURES OR LUMINAIRES ON THAT SWITCH LEG (SWITCH LEG a IN THIS EXAMPLE). THIS NOTATION TYPICALLY FOLLOWS ADDITIONAL SUBSCRIPT DESIGNATIONS (DIMMER SWITCH CONTROLLING LEG a IN THIS EXAMPLE).
•	DENOTES LIGHT SWITCH OR CONTROL DEVICE IS SURFACE MOUNTED.
L	EXISTING LOCKED SWITCH, WITH COVER TO PREVENT SWITCH USE.

DISCONNECT SWITCH-SCHEDULE	
SWITCH	DESCRIPTION
S-1	30A/2P
S-2	60A/2P
S-3	100A/2P
S-4	200A/2P
S-5	400A/2P
S-6	30A/3P
S-7	60A/3P
S-8	100A/3P
S-9	200A/3P
S-10	400A/3P
S-11	30A/4W/5N
S-12	60A/4W/5N
S-13	100A/4W/5N
S-14	200A/4W/5N
S-15	400A/4W/5N

SWITCH NOTES:

1. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.
2. 240V OR 600V TO SUIT CIRCUIT
3. ALL DISCONNECTS FUSIBLE UNLESS OTHERWISE NOTED. PROVIDE FUSES TO SUIT LOAD.
4. ENCLOSURES NEMA 3R OUTDOORS AND IN WET LOCATIONS, NEMA 1 OTHERWISE UNLESS OTHERWISE NOTED.
5. ALL OUTDOOR DISCONNECTS SERVING GROUND MOUNTED PANEL UNITS SHALL NOT BE MOUNTED HIGHER THAN 36" ABOVE FINISHED GRADE.

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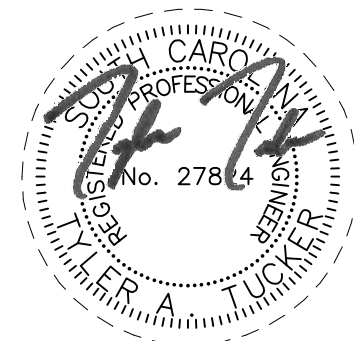
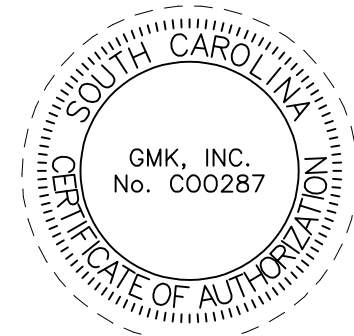
project name

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REPLACEMENT, HVAC CONTROLS
AND AHU NO. 1 RE-BUILD

project number

JOB NO. D50-6103-LC

seals/signature



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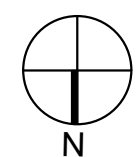
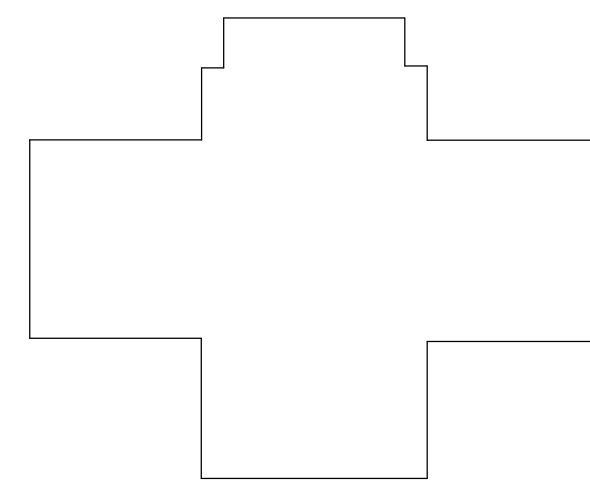
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key plan



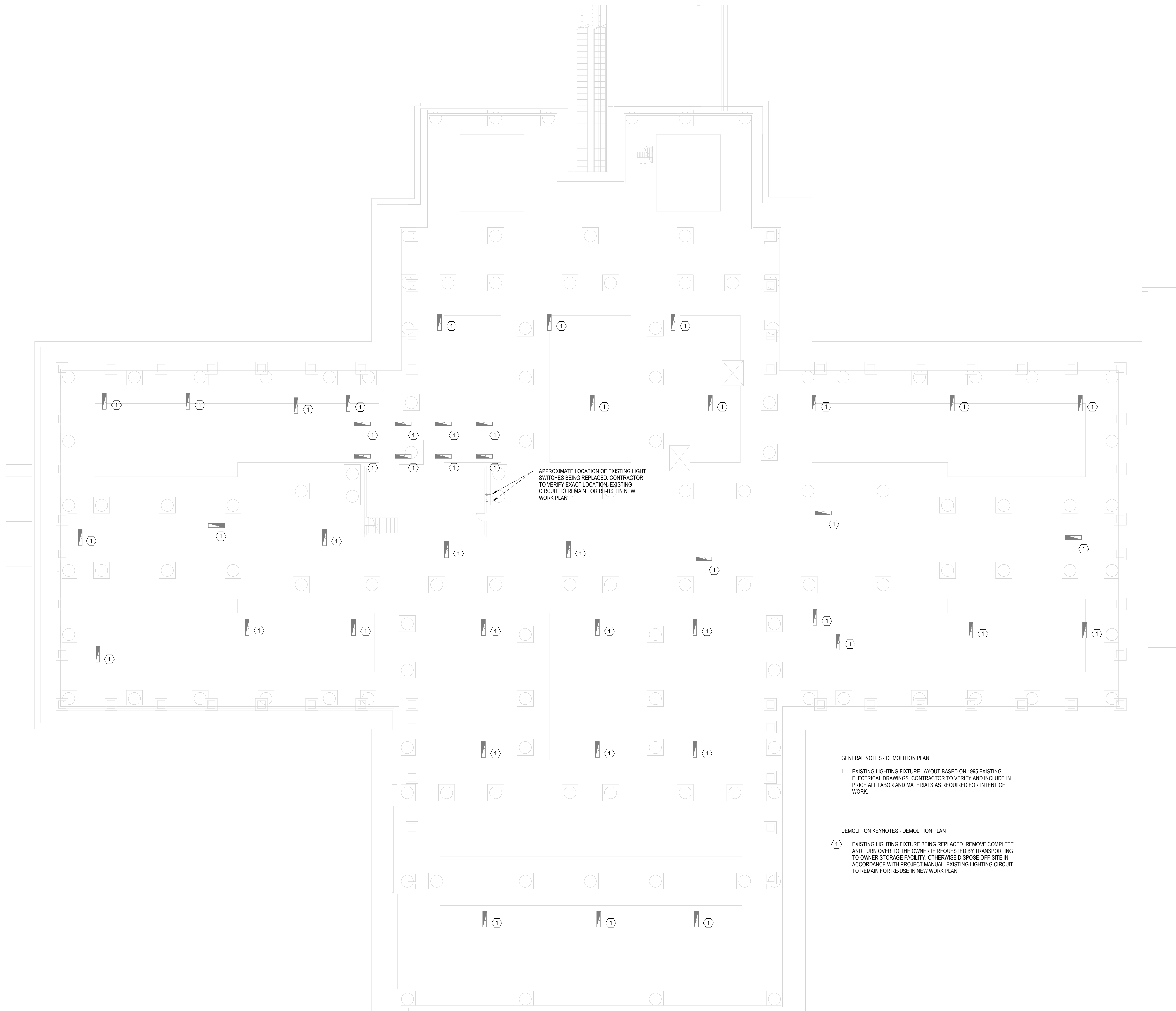
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**SUB BASEMENT LIGHTING
DEMOLITION PLAN**

sheet number

E1.1

drawn by AGK
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① SUB BASEMENT DEMOLITION PLAN
3/32" = 1'-0"

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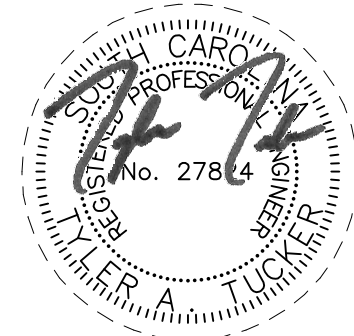
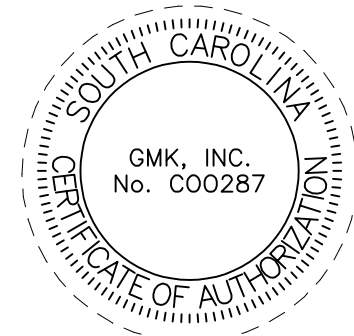
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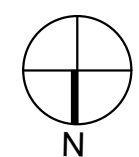
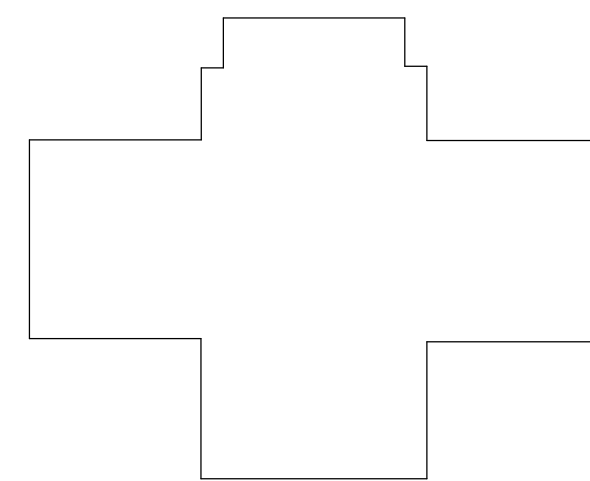
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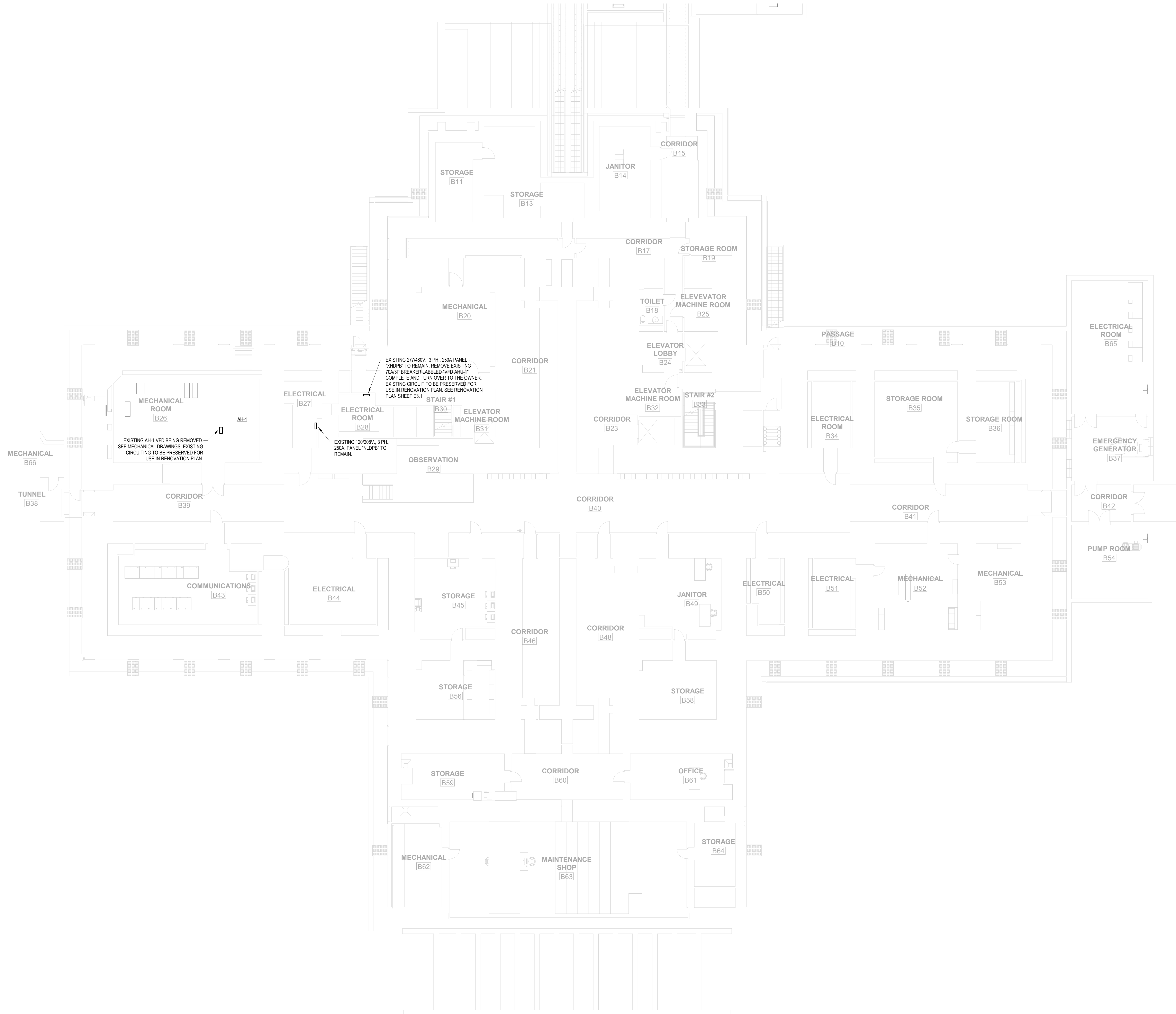
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**BASEMENT LEVEL POWER
DEMOLITION PLAN**

sheet number

E1.2

drawn by AGK
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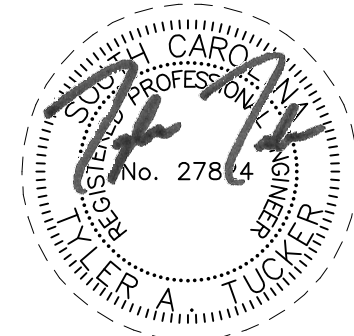
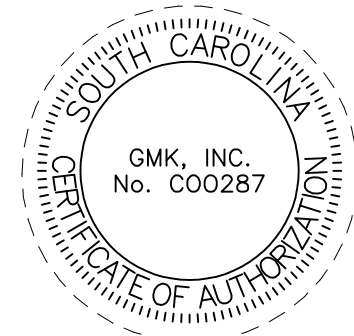
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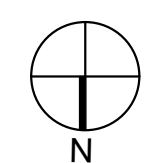
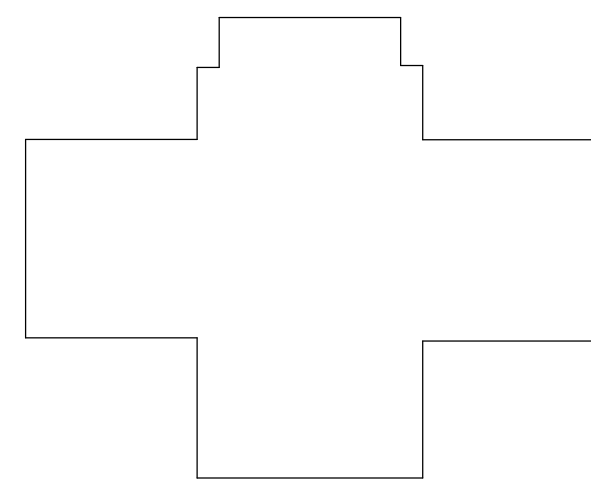
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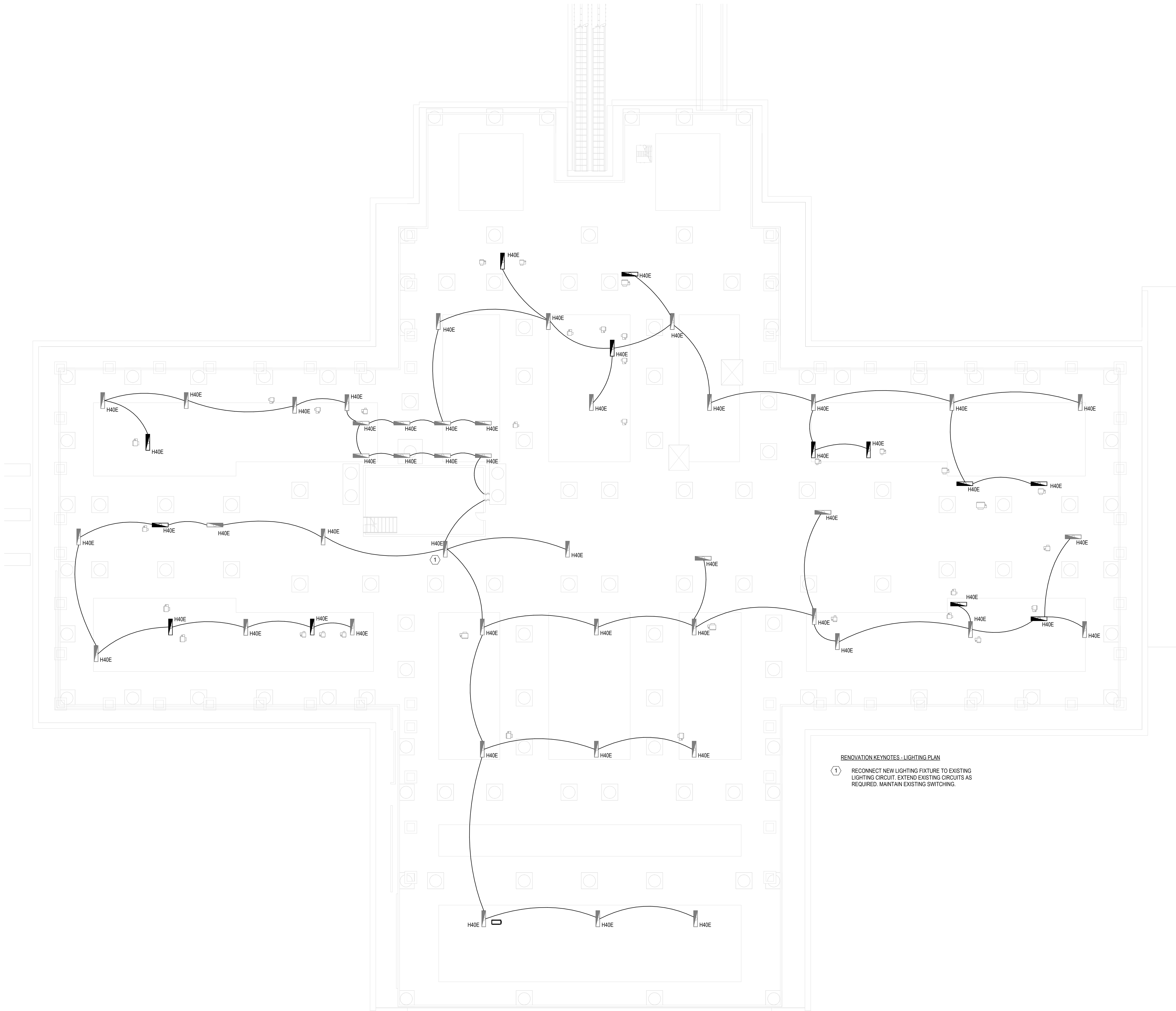
**SUB BASEMENT LIGHTING
RENOVATION PLAN**

sheet number

E2.1

drawn by
checked by

AGK
TAT



RENOVATION KEYNOTES - LIGHTING PLAN

- ① RECONNECT NEW LIGHTING FIXTURE TO EXISTING
LIGHTING CIRCUIT. EXTEND EXISTING CIRCUITS AS
REQUIRED. MAINTAIN EXISTING SWITCHING.

① SUB BASEMENT LIGHTING PLAN
3/32" = 1'-0"

Lighting Fixture Schedule					
Type	Description	Manufacturer	Model	Input Wattage	Comments
H40E	4-FOOT, VAPOR-TIGHT LED FIXTURE WITH FROSTED POLYCARBONATE LENS, 6000 LUMENS, 4000K, 80 CRI, 0-10V DIMMING CAPABILITY, SURFACE MOUNTED OR PENDANT HUNG.	LITHONIA	CSV-T-L48-6000LM-MVOLT-4000K-80CRI-IE7WCP	49W	PROVIDE WITH INTEGRAL BATTERY BACKUP. CONNECTED LINE SIDE OF ANY SWITCHING.

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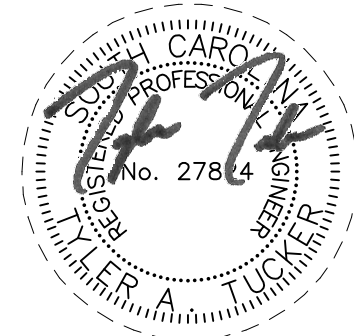
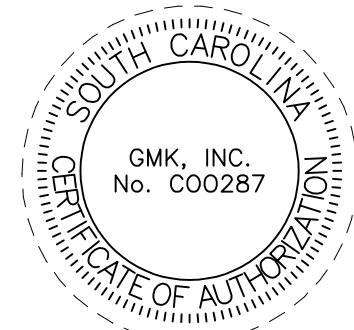
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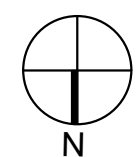
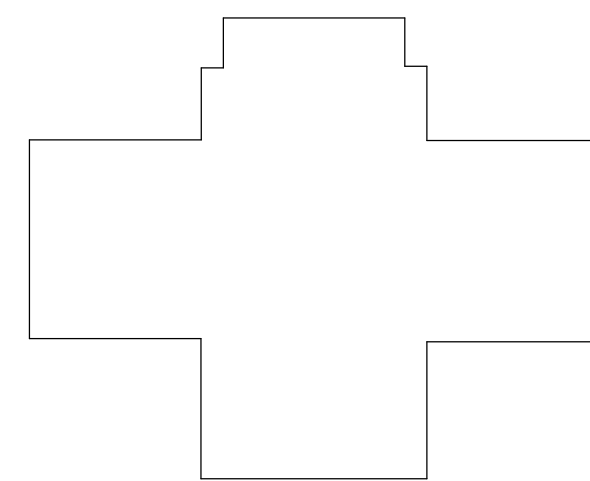
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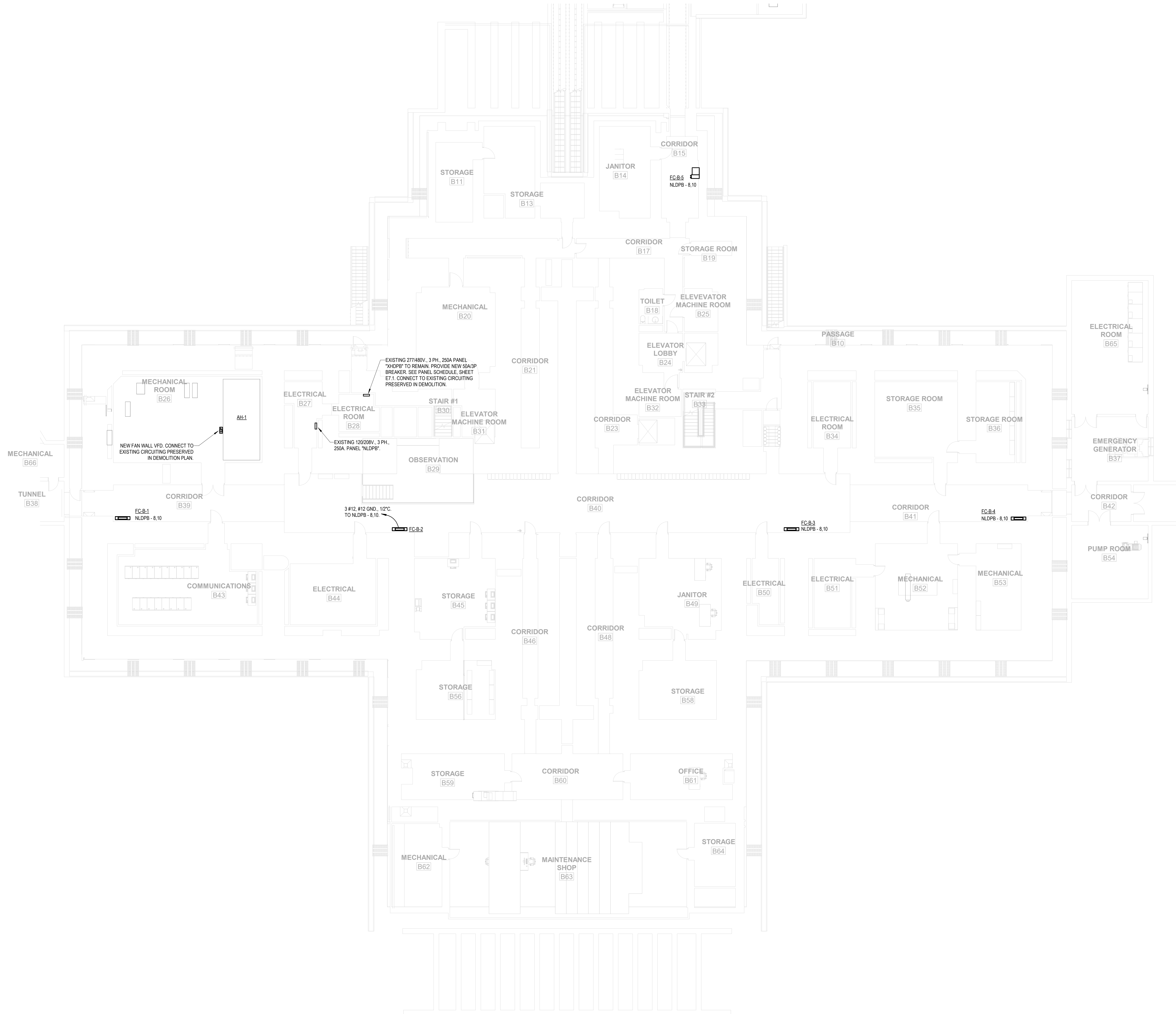
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**BASEMENT LEVEL POWER
PLAN**

sheet number

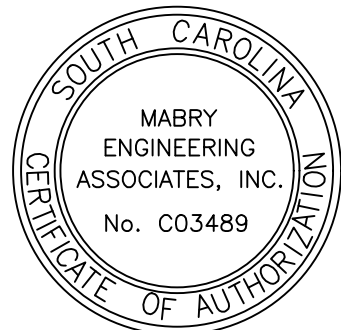
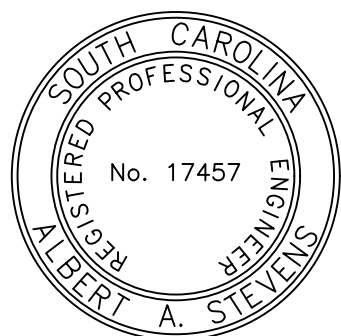
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1 BASEMENT LEVEL POWER RENOVATION PLAN
3/32" = 1'-0"





GENERAL NOTES:

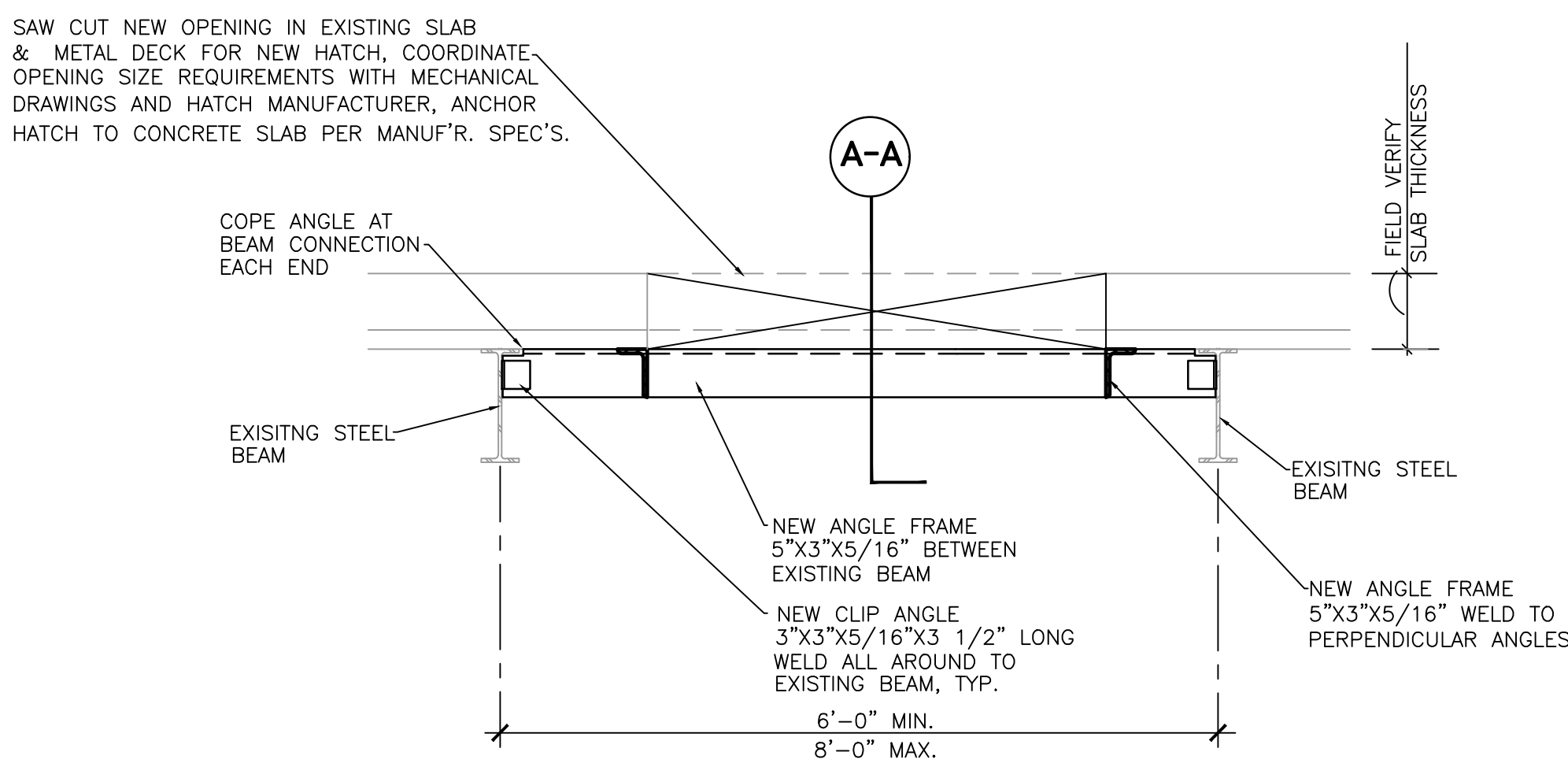
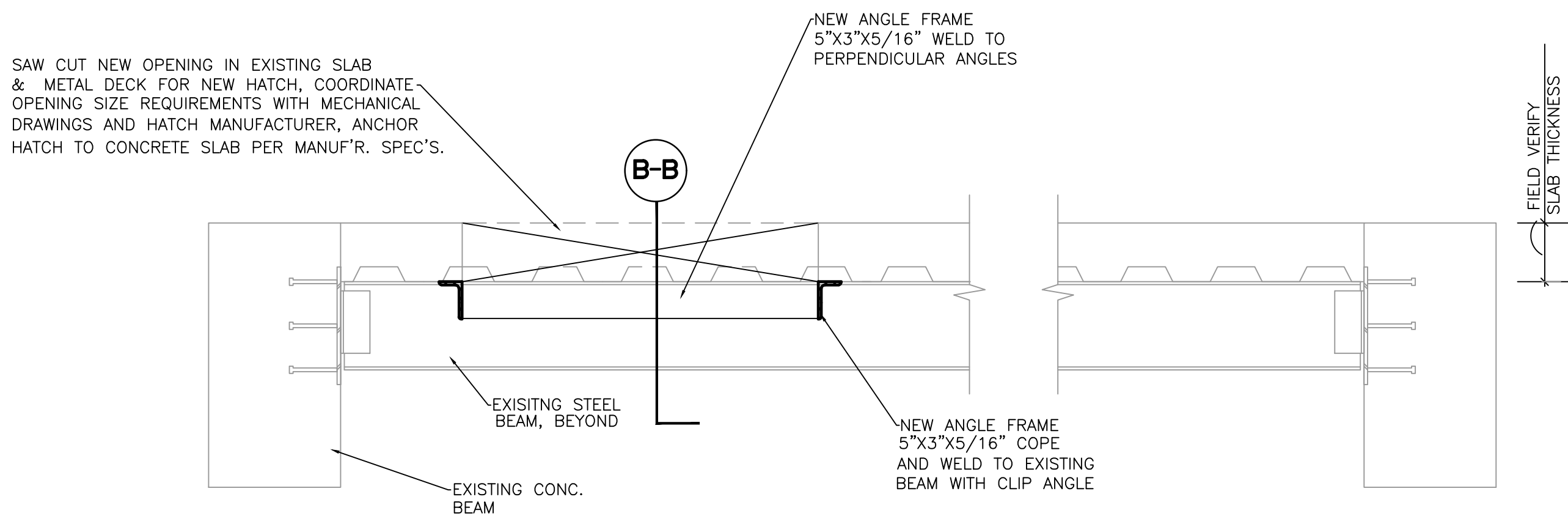
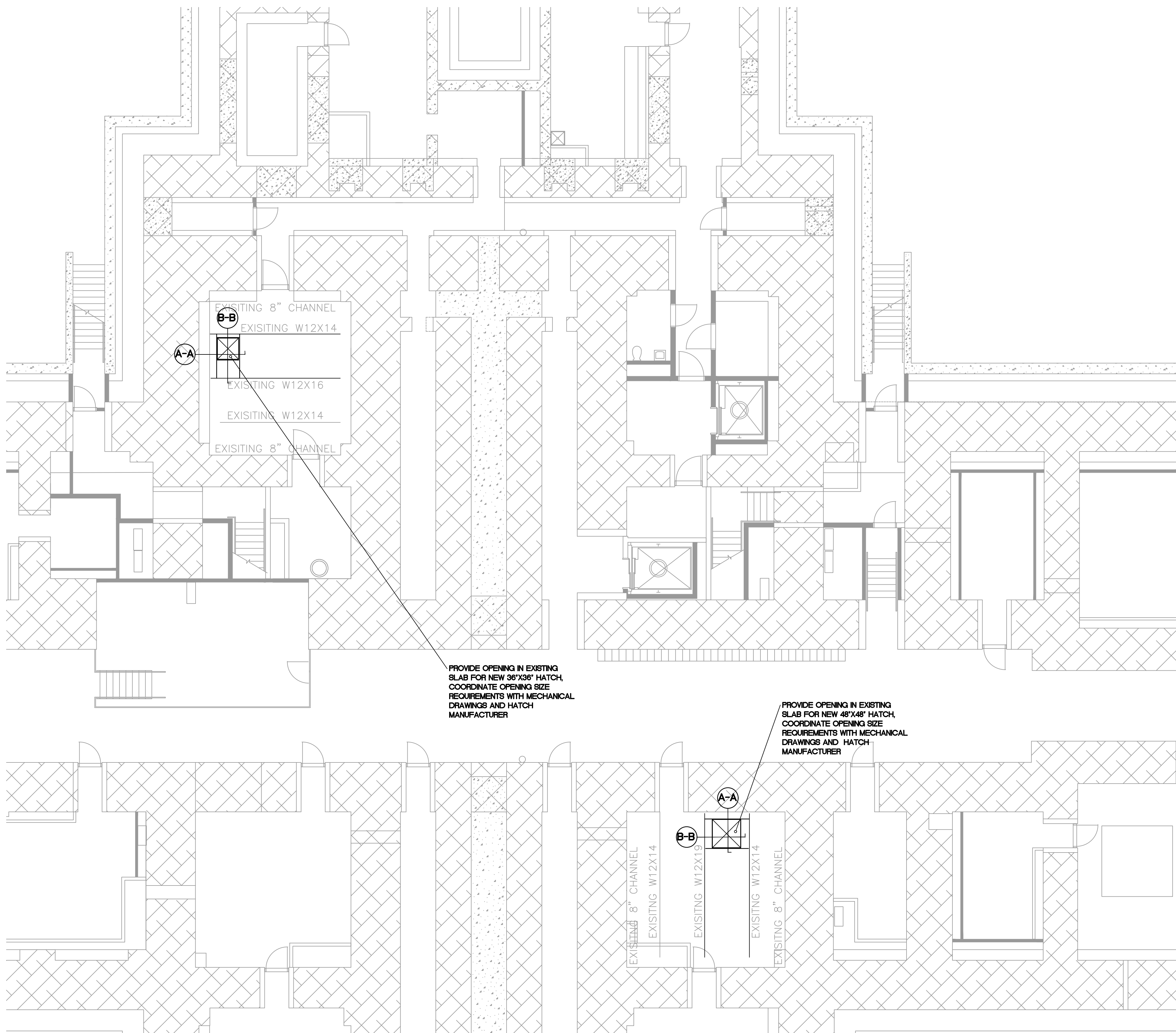
- LOADS: DEAD LOADS: ACTUAL WEIGHTS OF MATERIALS
LIVE LOADS: 100 PSF
- VERIFY ALL ELEVATIONS AND DIMENSIONS WITH EXISTING CONDITIONS.
SEE MECHANICAL DRAWINGS FOR MISCELLANEOUS DETAILS NOT SHOWN
ON STRUCTURAL DRAWINGS.
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS
BEFORE ANY FABRICATION HAS STARTED.
- PROVIDE AND INSTALL ALL TEMPORARY BRACING AS REQUIRED FOR
SAFETY/STABILITY OF THE STRUCTURE UNTIL STRUCTURE IS COMPLETE.
- CONTRACTOR SHALL COORDINATE DIMENSIONS AND LOCATIONS
OF ANGLE FRAMES AND STRUCTURAL SUPPORT FOR MECHANICAL
EQUIPMENT AND HOLES IN SLAB.
- CONTRACTOR SHALL VISIT SITE TO BECOME THOROUGHLY FAMILIAR WITH
ALL EXISTING CONDITIONS AND SHALL FIELD VERIFY ALL EXISTING
DIMENSIONS, FRAMING CONDITIONS, AND CONNECTIONS BEFORE
BEGINNING CONSTRUCTION OR ANY FABRICATION.
- WHERE DETAIL IS SHOWN ON STRUCTURAL DRAWINGS FOR ONE
CONDITION, IT SHALL APPLY TO ALL SIMILAR OR LIKE CONDITIONS,
UNLESS NOTED OR SHOWN OTHERWISE ON PLANS.
- STRUCTURAL STEEL:
 - STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS,
UNLESS NOTED OTHERWISE ON PLANS:
 - MISCELLANEOUS STEEL ----- A-36(F_y=36ksi)
 - WELDED CONNECTIONS:
 - ALL SHOP AND FIELD WELDING SHALL CONFORM TO AWS
STRUCTURAL WELDING CODE-STEEL, ANSI/AWS - D1.1
 - MINIMUM WELD = 3/16" THICK THROAT
- REVIEW OF SUBMITTAL AND/OR SHOP DRAWINGS BY THE STRUCTURAL
ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE
RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE
SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. THE
CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS
ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY
PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN
THE CONTRACT DOCUMENTS. CONTRACTOR ALSO SHALL BE RESPONSIBLE
FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF
CONSTRUCTION.

REQUIRED SPECIAL INSPECTIONS:

(IBC SECTION 1704)

D51200 STRUCTURAL STEEL

- PERIODIC INSPECTION IS REQUIRED.
 - ALL FIELD PERFORMED SINGLE FILLET WELDS LESS THEN
5/16".
 - AT THE START AND DURING EACH PHASE OF THE PROJECT
TO ASCERTAIN PROPOSED CONFORMITY OF MATERIALS,
PERSONNEL QUALIFICATIONS AS REQUIRED AND
PROCEDURES WITH APPLICABLE CODES, PLANS AND
SPECIFICATIONS.



NEW ANGLE FRAMING DETAIL AT NEW SLAB OPENINGS

SCALE: 3/4" = 1'-0"

NOTES:

- COORDINATE EXACT LOCATIONS OF NEW SLAB OPENINGS WITH
MECHANICAL DRAWINGS.
- CONTACT STRUCTURAL & MECHANICAL ENGINEERS IF IN-FIELD FRAMING
CONDITIONS ARE DIFFERENT FROM AS SHOWN ON STRUCTURAL PLANS & DETAILS.
MODIFICATIONS TO DETAILS MAY BE REQUIRED.
- FIELD DETERMINE ALL DIMENSIONS BEFORE FABRICATION OF
NEW STEEL MEMBERS.

NEW SLAB OPENING FRAMING PLAN

SCALE: 3/8"=1'-0"

NOTES:

- COORDINATE EXACT LOCATIONS OF NEW SLAB OPENINGS WITH
MECHANICAL DRAWINGS.
- CONTACT STRUCTURAL & MECHANICAL ENGINEERS IF IN-FIELD FRAMING
CONDITIONS ARE DIFFERENT FROM AS SHOWN ON STRUCTURAL PLANS & DETAILS.
MODIFICATIONS TO DETAILS MAY BE REQUIRED.
- FIELD DETERMINE ALL DIMENSIONS BEFORE FABRICATION OF
NEW STEEL MEMBERS.