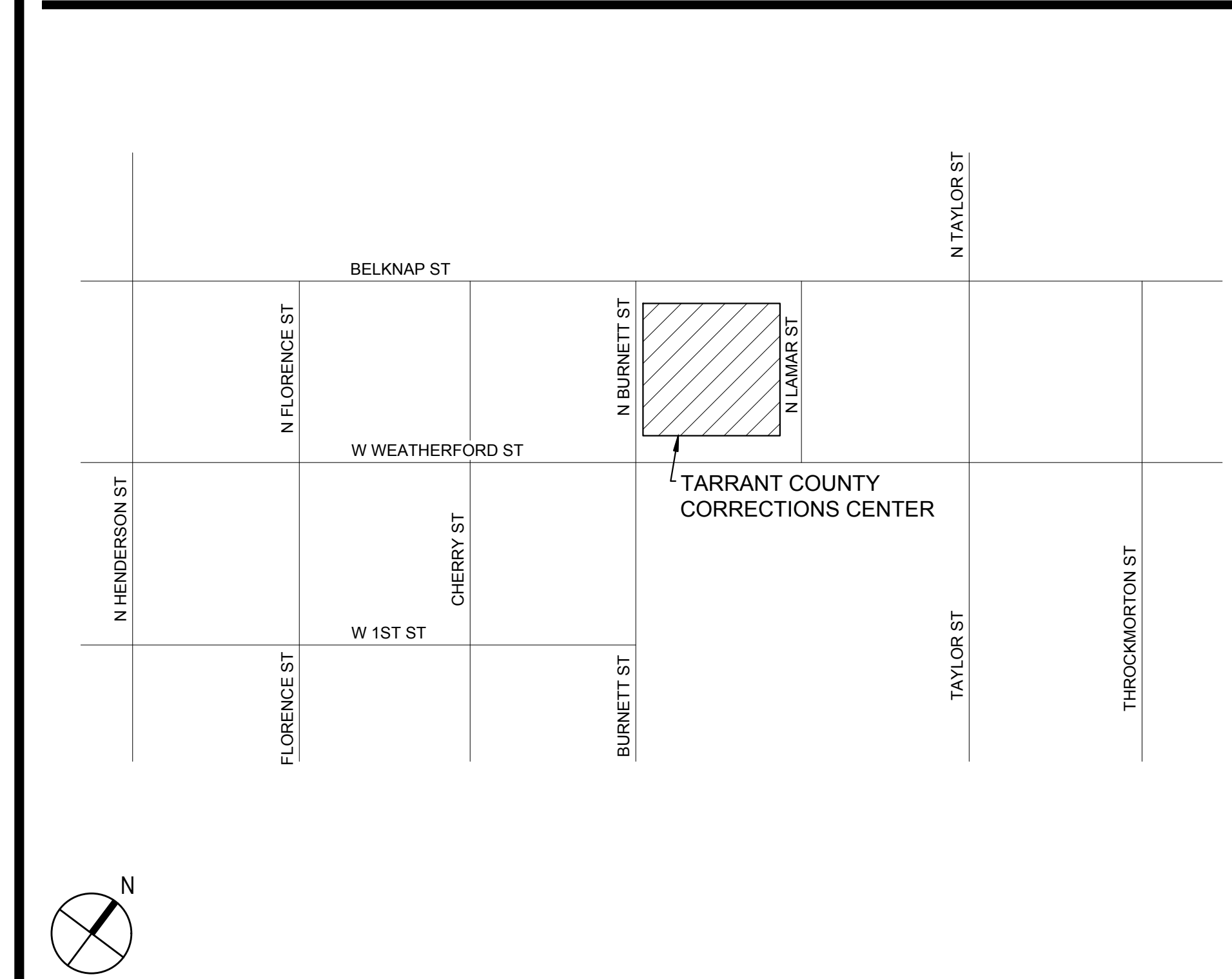


TARRANT COUNTY CORRECTIONS CENTER AHU REPLACEMENT PROJECT



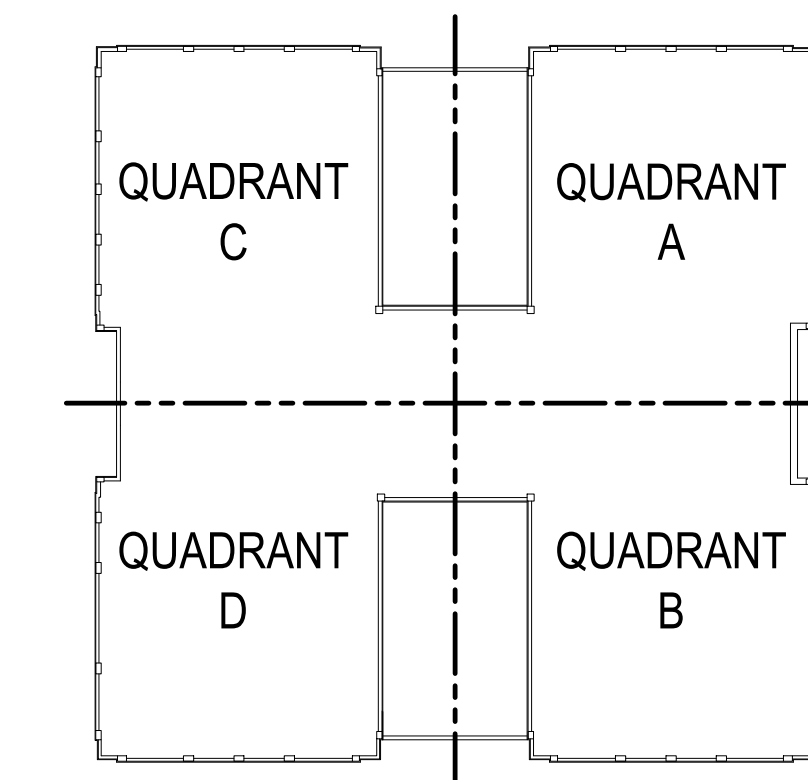
VICINITY MAP



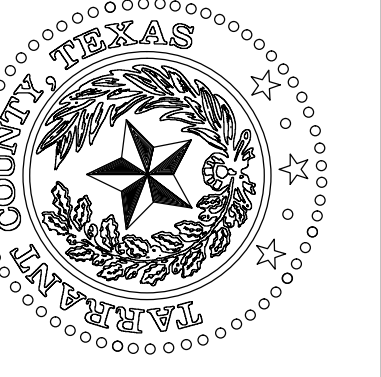
INDEX OF SHEETS

G0-1	COVER SHEET	M4-3	MECHANICAL SECTIONS
M0-1	LEVEL 4 FLOOR PLAN - MECHANICAL DEMOLITION	M4-4	MECHANICAL SCHEDULES
M0-2	LEVEL 4 FLOOR PLAN - HYDRONIC DEMOLITION	M4-5	MECHANICAL SCHEDULES
M0-3	ROOF & PENTHOUSE PLAN - MECHANICAL DEMOLITION	E0-4	LEVEL 4 FLOOR PLAN - ELECTRICAL DEMOLITION
M1-1	LEVEL 1 FLOOR PLAN - MECHANICAL	E0-10	ROOF & PENTHOUSE PLAN - ELECTRICAL DEMOLITION
M1-2	LEVEL 2 FLOOR PLAN - MECHANICAL	E1-1	LEVEL 1 FLOOR PLAN - ELECTRICAL
M1-3	LEVEL 3 FLOOR PLAN - MECHANICAL	E1-2	LEVEL 2 FLOOR PLAN - ELECTRICAL
M1-4	LEVEL 4 FLOOR PLAN - MECHANICAL	E1-3	LEVEL 3 FLOOR PLAN - ELECTRICAL
M1-4H	LEVEL 4 FLOOR PLAN - HYDRONIC	E1-4	LEVEL 4 FLOOR PLAN - ELECTRICAL
M1-5	LEVEL 5 FLOOR PLAN - MECHANICAL	E1-5	LEVEL 5 FLOOR PLAN - ELECTRICAL
M1-6	LEVEL 6 FLOOR PLAN - MECHANICAL	E1-6	LEVEL 6 FLOOR PLAN - ELECTRICAL
M1-7	LEVEL 7 & 8 FLOOR PLAN - MECHANICAL	E1-7	LEVEL 7 & 8 FLOOR PLAN - ELECTRICAL
M1-8	LEVEL 9, 10, 11, 12, & 13 FLOOR PLAN - MECHANICAL	E1-8	LEVEL 9, 10, 11, 12, & 13 FLOOR PLAN - ELECTRICAL
M1-9	LEVEL 9M, 10M, 11M, 12M, & 13M FLOOR PLAN - MECHANICAL	E1-9	LEVEL 9M, 10M, 11M, 12M, & 13M FLOOR PLAN - ELECTRICAL
M1-10	ROOF & PENTHOUSE PLAN - MECHANICAL	E1-10	ROOF & PENTHOUSE PLAN - ELECTRICAL
M2-1	CONTROL DIAGRAMS	E3-1	ELECTRICAL DETAILS AND SCHEDULES
M2-2	CONTROL DIAGRAMS		
M2-3	CONTROL DIAGRAMS		
M2-4	CONTROL DIAGRAMS		
M2-5	CONTROL DIAGRAMS		
M3-1	AHU RISER DIAGRAMS		
M3-2	AHU RISER DIAGRAMS		
M4-1	MECHANICAL DETAILS		
M4-2	MECHANICAL SECTIONS		

KEY PLAN



BIB
BAIRD, HAMPTON & BROWN
engineering and surveying
6300 Regilee Place, Suite 700 Fort Worth, TX 76116
mhb@bhbc.com • 817.338.1277 • bhbc.com
TPE Firm #44, #1017366, 1001102, #1019446



TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT

100 N LAMAR STREET FORT WORTH, TEXAS 76102

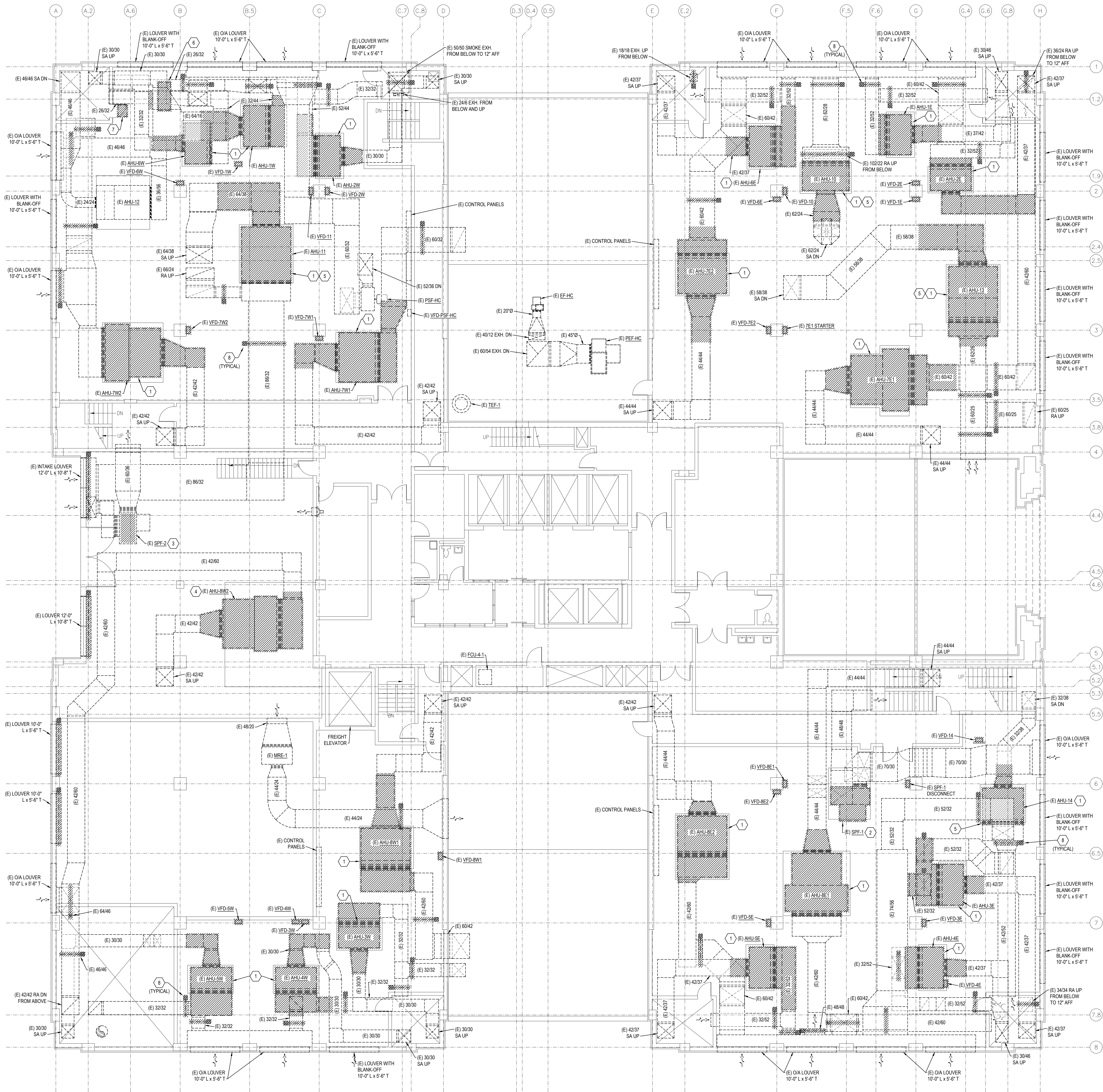
COVER SHEET

NO.	DESCRIPTION	DATE



PROJECT NUMBER: 2021.010.042
DATE: 02/15/2023 DRAWN BY: EMS
DESIGN BY: LRB CHECKED BY: LRB

SHEET
G0-1
SHEET 1 OF 1 G SHEETS TOTAL



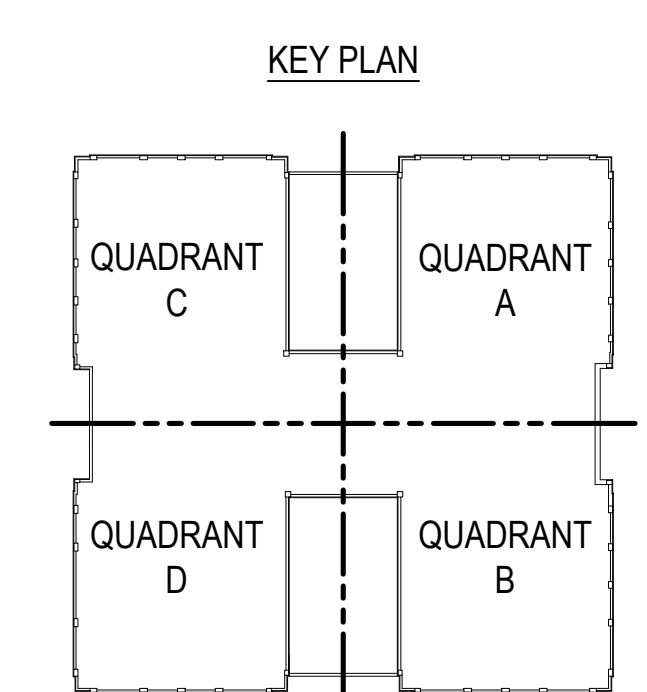
- ### HVAC GENERAL NOTES:
- THIS CONTRACT TO REPLACE THE AIR HANDLING UNITS SHALL BE PERFORMED CONCURRENTLY WITH A SEPARATE PROJECT TO REPLACE THE EXISTING BUILDING AUTOMATION SYSTEM. THE WORK FOR THIS CONTRACT SHALL BE PERFORMED IN CLOSE COORDINATION WITH THE BUILDING AUTOMATION SYSTEM CONTRACTOR SO THAT IT WILL BE INSTALLED AS IF ONE SEAMLESS PROJECT, AND SHALL FULLY COMPLY WITH ALL OWNER DIRECTED SCHEDULING AND PHASING OF WORK.
 - FURNISH AND INSTALL ALL MATERIALS AND LABOR REQUIRED TO PROVIDE COMPLETE AND OPERABLE HVAC SYSTEMS WITH ALL TESTS AND ADJUSTMENTS NECESSARY EVEN THOUGH NOT SPECIFICALLY IDENTIFIED.
 - ALL WORK AND/OR MATERIALS SHALL BE INSTALLED BY A LICENSED CONTRACTOR AND SHALL CONFORM TO ALL APPLICABLE NATIONAL AND LOCAL BUILDING AND MECHANICAL CODES.
 - ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. INSTALL TURNING VANES IN ALL DUCTWORK ELBOWS.
 - WHERE DUCTWORK IS INDICATED TO BE EXPOSED TO VIEW IN OCCUPIED SPACES, PROVIDE MATERIALS THAT ARE FREE FROM VISUAL IMPERFECTIONS INCLUDING FITTING, SEAM MARKS, ROLLER MARKS, AND STAINS AND DISCOLORATIONS, AND OTHER IMPERFECTIONS, INCLUDING THOSE THAT WOULD IMPAIR PAINTING.
 - ALL INTERIOR DUCTS SHALL BE CONSTRUCTED WITH G-60 OR BETTER GALVANIZED STEEL (ASTM A 653A 653M) LFO, CHEM TREAT. EXTERIOR DUCTWORK SHALL BE G-90 OR BETTER GALVANIZED STEEL LFO, CHEM TREAT.
 - COORDINATE EXACT ROUTING OF ALL WORK WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF WORK.
 - CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.
 - ALL SUPPLY/RETURN DUCTWORK FROM AIR HANDLING UNITS SHALL BE LINED WITH 1-1/2" THICK ACOUSTICAL LINING.
 - INSTALL FLEXIBLE DUCTWORK CONNECTIONS AT ALL DUCT CONNECTIONS TO AIR HANDLING UNITS AND FANS.
 - ALL DUCT DIMENSIONS SHOWN ARE NET CLEAR INSIDE DIMENSIONS.
 - ALL TESTING AND BALANCING WILL BE PERFORMED BY AIR BALANCING COMPANY UNDER A SEPARATE CONTRACT WITH THE COUNTY, NOT A PART OF THIS CONTRACT.
 - THE EQUIPMENT REPLACEMENT WORK, AND RELATED BUILDING AUTOMATION SYSTEM REPLACEMENT WORK (PREPARED UNDER SEPARATE CONTRACT) WILL BE PERFORMED ON A QUADRANT BY QUADRANT BASIS. WHEN ONE QUADRANT IS DOWN FOR REPLACEMENT, ALL FUNCTIONS ON THE REMAINING THREE QUADRANTS MUST REMAIN FULLY FUNCTIONAL.
 - THIS CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING PLAN FOR REMOVAL OF ALL DEMOLISHED EQUIPMENT FROM THE BUILDING, AND DELIVERY OF ALL NEW EQUIPMENT INTO THE BUILDING VIA EXTERIOR LOUVERS AND/OR FREIGHT ELEVATOR. PROVIDE ALL CRANES, RIGGING, ETC. AS REQUIRED. TARRANT COUNTY FACILITIES MANAGEMENT AND CITY OF FORT WORTH WILL NEED TO APPROVE ANY STREET CLOSURES.
 - THE FIRST, SECOND, THIRD FLOORS AND PORTION OF THE FIFTH FLOOR WILL REMAIN OCCUPIED DURING THE DURATION OF THE PROJECT AND WILL NEED TO HAVE HEATING AND AIR CONDITIONING MAINTAINED AT ALL TIMES. PROVISIONS FOR USING TEMPORARY DUCTWORK FROM OTHER UNITS WHILE THESE UNITS ARE REPLACED IS INDICATED ON THE DRAWINGS.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL NEW ACCESS DOORS IN CEILING AND WALLS AS REQUIRED TO PROVIDE ACCESS TO EXISTING DAMPERS AND VAN BOX LOCATIONS. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
 - PRIOR TO COMMENCING DEMOLITION WORK, THE BALANCING CONTRACTOR SHALL TEST AND RECORD THE AIRFLOW AND STATIC PRESSURE OF THE EXISTING ISOLATION EXHAUST FAN MEF-1 AND ASSOCIATED DUCTWORK AS REQUIRED. THE RECORDED INFORMATION IS TO BE USED FOR SELECTING THE NEW EXHAUST FAN MEF-1.

- ### NOTES BY SYMBOL: "E"
- REMOVE EXISTING AHU, VFD, AND ASSOCIATED DUCTWORK AS INDICATED. PREPARE DUCTWORK TO REMAIN FOR NEW CONNECTION.
 - REMOVE EXISTING STAIRWELL PRESSURIZATION FAN AND ASSOCIATED DUCTWORK AS INDICATED. PREPARE DUCTWORK TO REMAIN FOR NEW CONNECTION.
 - EXISTING STAIRWELL PRESSURIZATION FAN TO BE THOROUGHLY SERVICED TO LIKE-NEW CONDITION. REFER TO SERVICE NOTES BELOW FOR ADDITIONAL INFORMATION.
 - REMOVE EXISTING AHU ON MEZZANINE IN CHILLER ROOM, VFD, AND ASSOCIATED DUCTWORK AS INDICATED. PREPARE DUCTWORK TO REMAIN FOR NEW CONNECTION.
 - AREA SERVED BY THIS AHU NEEDS TO HAVE TEMPERATURE CONTROL MAINTAINED 24/7. THIS AHU CANNOT BE REMOVED WITHOUT PROVISIONS FOR TEMPORARY CONDITIONING. REFER TO SHEET M1-4 FOR ADDITIONAL INFORMATION. TYPICAL FOR AHU-10, 11, 13, AND 14.
 - REMOVE EXISTING CONDENSING UNIT AND ASSOCIATED SUPPORT STRUCTURE IN THIS AREA. PROVIDE COPY OF WASTE DISPOSAL MANIFEST AND REFRIGERANT RECOVERY LOG FOR TRANSMITTAL TO OWNER.
 - TRAVERSE EXISTING EXHAUST DUCTWORK PRIOR TO COMMENCING DEMOLITION WORK. THE RECORDED AIRFLOW AND STATIC PRESSURE MEASURED SHALL BE USED FOR REPLACING THE EXISTING MEF-1 AND TO REBALANCE THE SYSTEM TO THE MEASURED AIRFLOWS UPON COMPLETION OF NEW WORK. REMOVE EXISTING EXHAUST FAN MEF-1 AND ASSOCIATED DUCTWORK AS REQUIRED. PREPARE DUCTWORK TO REMAIN FOR NEW CONNECTION.
 - REMOVE EXISTING MOTORIZED DAMPER AND PREPARE DUCTWORK FOR NEW MOTORIZED DAMPER.

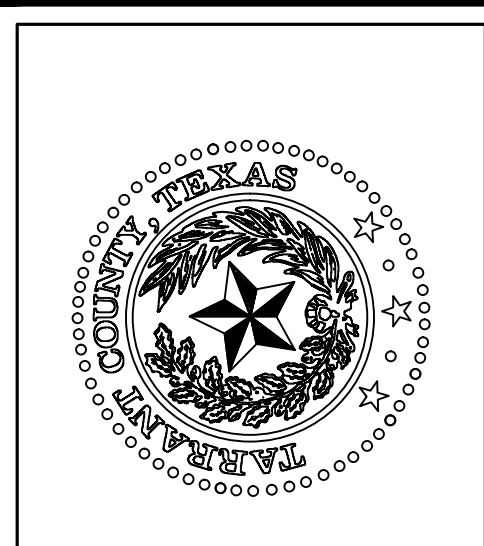
- ### SPF-2 SERVICE POINTS:
- THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED TO ENSURE THAT THE EXISTING EQUIPMENT IS IN GOOD WORKING ORDER.
- POINTS OF SERVICE SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
- REPLACE ALL BELTS.
 - REPLACE MOTOR MOUNTS.
 - REPLACE MOTORS, BEARINGS AND SHAFTS.
 - REPLACE FLEX DUCT AT INTAKE AND DISCHARGE DUCTWORK CONNECTIONS.
 - THOROUGHLY CLEAN INTERIOR OF UNIT, INCLUDING BLOWER WHEEL AND DAMPER BLADES.
 - START-UP AND TEST FOR PROPER OPERATION.
 - SUBMIT A COPY OF THE SERVICE REPORT TO THE OWNER.

FIRE PROTECTION NOTE

THE EXISTING FIRE SYSTEM PIPE AND SPRINKLER HEAD LOCATIONS SHALL BE MODIFIED AS REQUIRED FOR REMOVAL AND INSTALLATION OF EQUIPMENT, PIPING, AND DUCTWORK. DUCTWORK SHALL HAVE PRIORITY, AND SPRINKLER PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE.

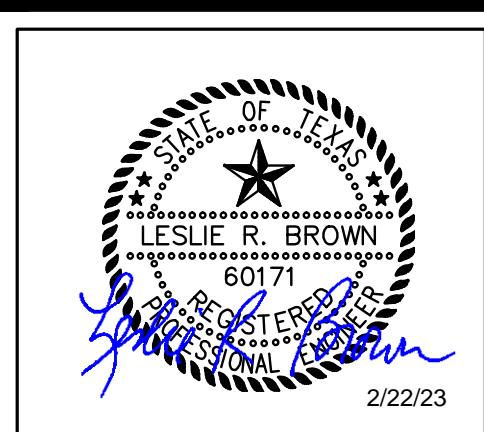


LEVEL 4 FLOOR PLAN - MECHANICAL DEMOLITION
SCALE: 1/8" = 1'-0"



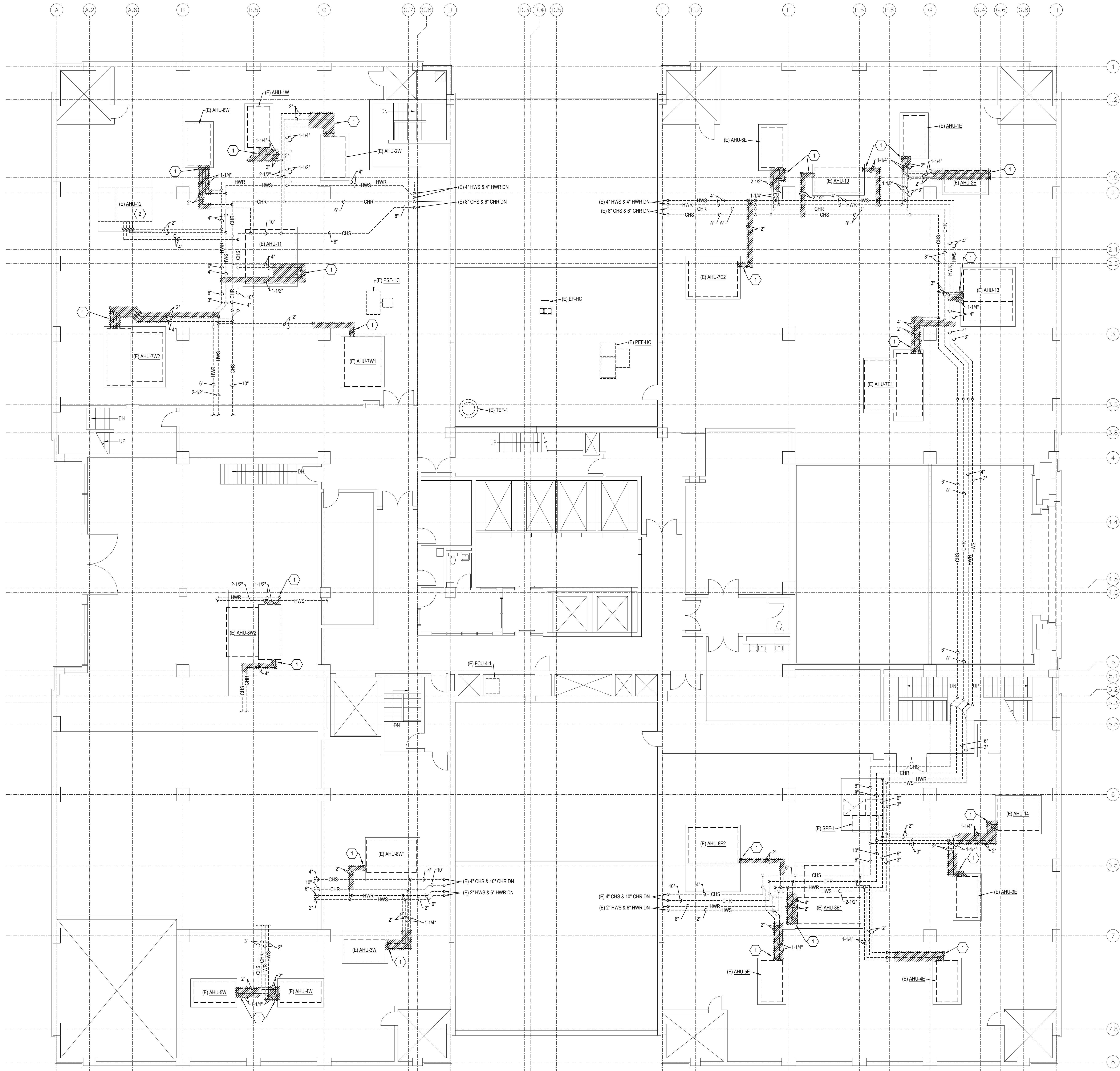
LEVEL 4 FLOOR PLAN - MECHANICAL DEMOLITION

NO.	DESCRIPTION	DATE



2.15.2023 8:15AM E:\2021\000\000022\010\ssx - Tarrant County Projects\2021\010\042 - Tar Co Cor Cr AHU Replacement\01 Design & Drafting\05 Mech\MO-1.dwg MO-1

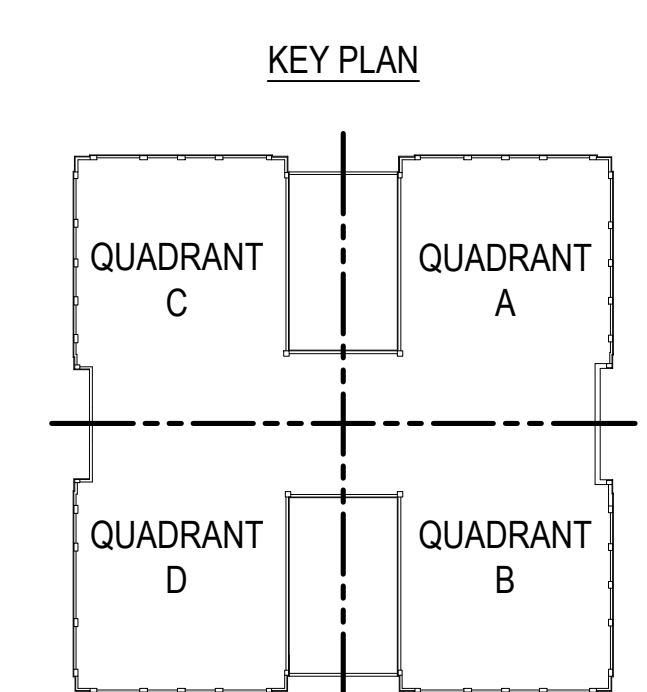
2/15/2023 8:15AM E:\2021\000\000021\010\ssx - Tarrant County Projects\2021\010\042 - Tar Co Cour Cr AHU Replacement\01 Design & Drafting\05 Mech\MO-2.dwg MO-2



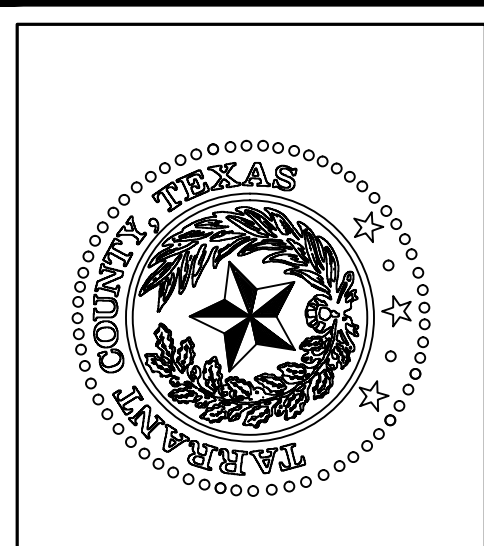
- NOTES BY SYMBOL:** "1"
- REMOVE EXISTING HYDRONIC WATER PIPING, CONTROL VALVES, AND ALL ASSOCIATED ACCESSORIES AS INDICATED. PREPARE PIPING TO REMAIN FOR NEW CONNECTION.
 - REMOVE EXISTING HYDRONIC WATER CONTROL VALVES AND PREPARE PIPING TO REMAIN FOR NEW CONNECTION.

FIRE PROTECTION NOTE:
 THE EXISTING FIRE SYSTEM PIPE AND SPRINKLER HEAD LOCATIONS SHALL BE MODIFIED AS REQUIRED FOR REMOVAL AND INSTALLATION OF EQUIPMENT. PIPING, AND DUCTWORK, DUCTWORK SHALL HAVE PRIORITY, AND SPRINKLER PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE.

HYDRONIC PIPING NOTE:
 THIS PROJECT WILL INCLUDE REPLACEMENT OF EXISTING BRANCH ISOLATION VALVES TO EACH AHU COIL. THERE ARE NO EXISTING SECTIONALIZING VALVES TO ISOLATE PIPING TO EACH MECHANICAL ROOM. THE CONTRACTOR WILL NEED TO MAKE PROVISIONS FOR USING FREEZE PLUGS AS REQUIRED TO ISOLATE BRANCH PIPING FOR INSTALLATION OF NEW BRANCH ISOLATION VALVES.



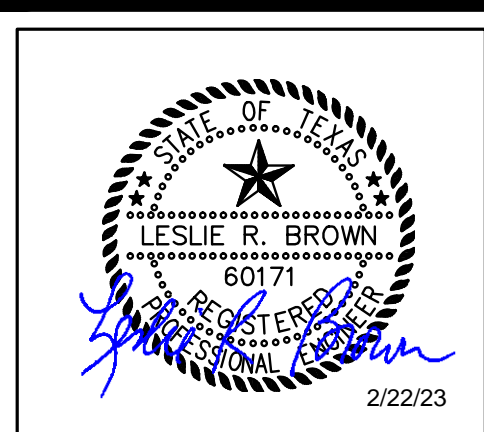
1
 LEVEL 4 FLOOR PLAN - HYDRONIC DEMOLITION
 SCALE: 1/8" = 1'-0"



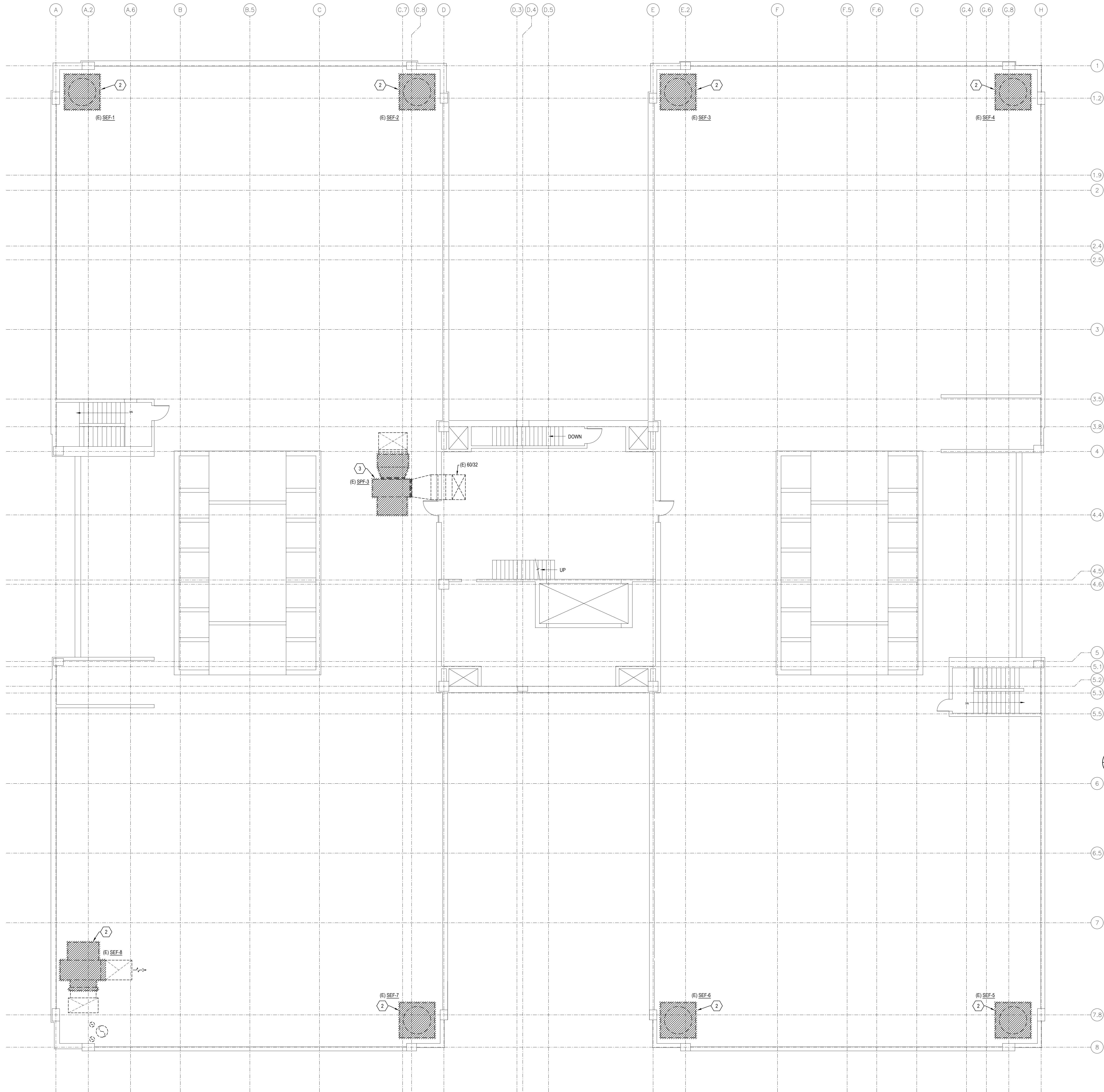
**TARRANT COUNTY CORRECTIONS CENTER
 AHU REPLACEMENT PROJECT**
 100 N LAMAR STREET FORT WORTH, TEXAS 76102

**LEVEL 4 FLOOR PLAN -
 HYDRONIC DEMOLITION**

NO.	DESCRIPTION	DATE



2:15:2023 8:15AM E:\2021\000\000021\010\ssx - Tarrant County Project\2021\010\042 - Tar Co Cour Cr AHU Replacement\01 Design & Drafting\05 Mech\MO-3.dwg MO-3

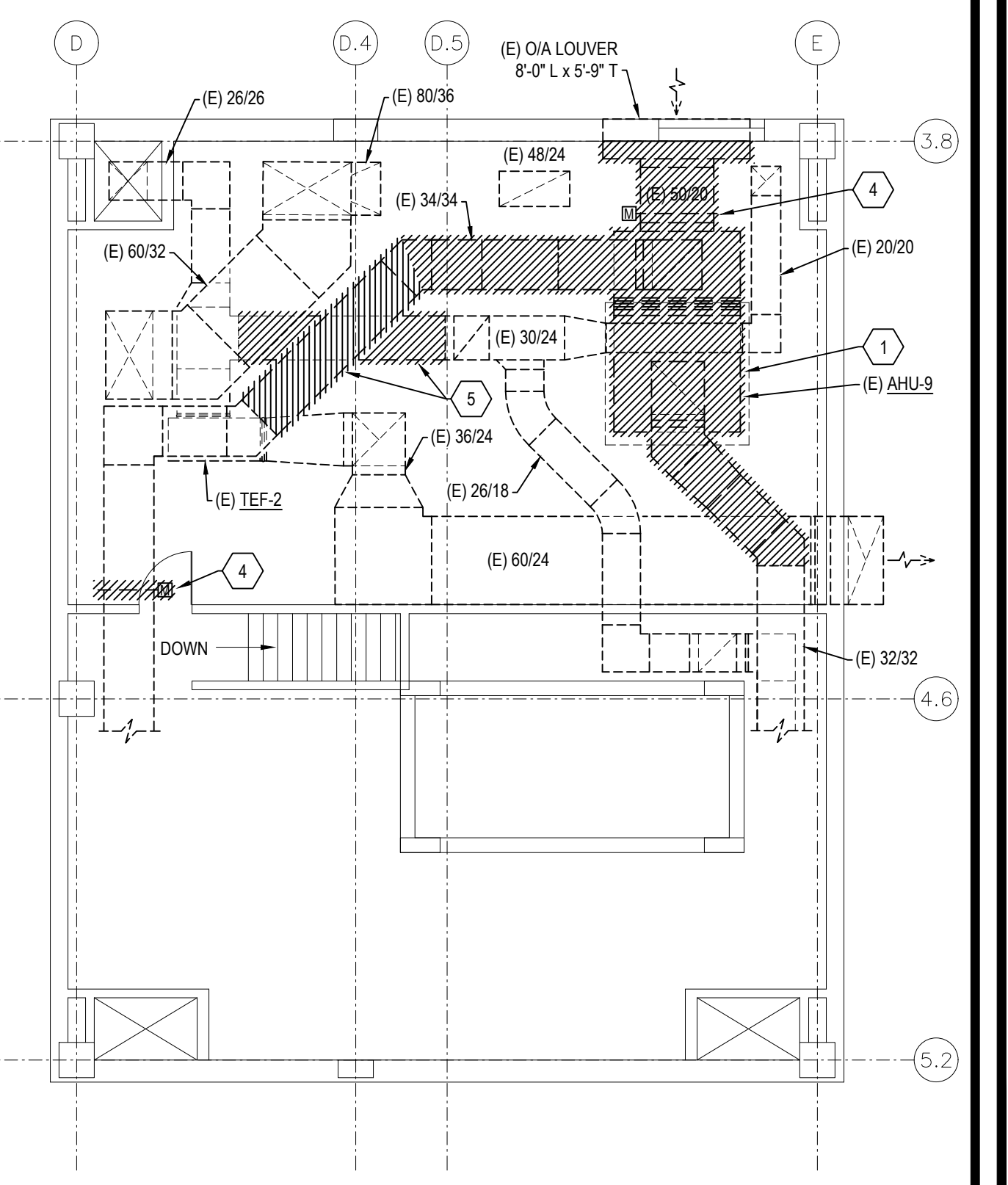


1 ROOF PLAN - MECHANICAL DEMOLITION
SCALE: 1/8" = 1'-0"

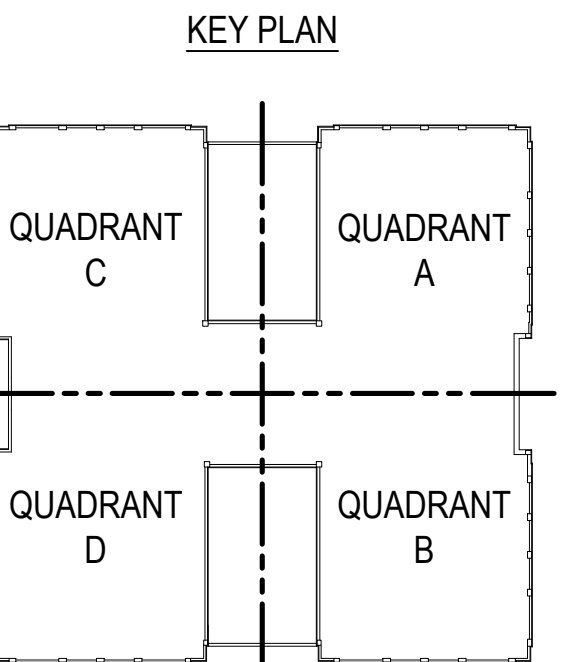
NOTES BY SYMBOL: "4"

1. REMOVE EXISTING AHU, VFD, AND ASSOCIATED DUCTWORK AS INDICATED. PREPARE DUCTWORK TO REMAIN FOR NEW CONNECTION. REMOVE EXISTING HYDRONIC WATER PIPING, CONTROL VALVES, AND ALL ASSOCIATED ACCESSORIES BACK TO BRANCH ISOLATION VALVES AND PREPARE PIPING TO REMAIN FOR NEW CONNECTION.
2. REMOVE EXISTING SMOKE PURGE FAN AND ASSOCIATED ACCESSORIES. PREPARE EXISTING ROOF CURB TO REMAIN FOR NEW FAN.
3. REMOVE EXISTING STAIRWELL PRESSURIZATION FAN AND ASSOCIATED DUCTWORK AS INDICATED. PREPARE DUCTWORK TO REMAIN FOR NEW CONNECTION.
4. REMOVE EXISTING MOTORIZED DAMPER AND PREPARE DUCTWORK FOR NEW MOTORIZED DAMPER.
5. REMOVE DAMAGED EXISTING 3024 EXHAUST DUCTWORK AND 3434 RETURN AIR DUCTWORK AS INDICATED. PREPARE EXISTING DUCTWORK TO REMAIN FOR NEW CONNECTION.

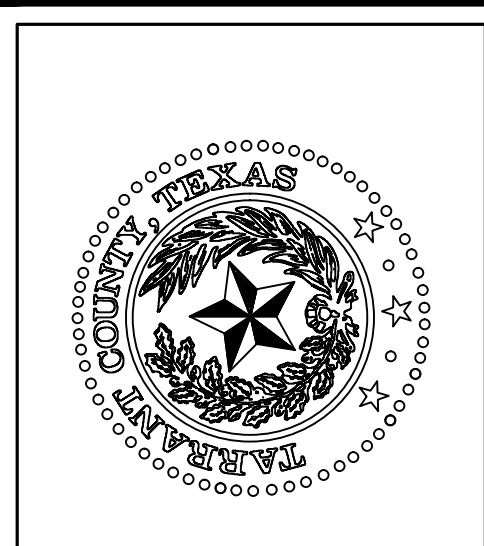
FIRE PROTECTION NOTE
THE EXISTING FIRE SYSTEM PIPE AND SPRINKLER HEAD LOCATIONS SHALL BE MODIFIED AS REQUIRED FOR REMOVAL AND INSTALLATION OF EQUIPMENT. PIPING AND DUCTWORK SHALL HAVE PRIORITY, AND SPRINKLER PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE.



2 PENTHOUSE PLAN - MECHANICAL DEMOLITION
SCALE: 1/8" = 1'-0"



BIB
BAIRD, HAMPTON & BROWN
engineering and surveying
6300 Regatta Place, Suite 700 Fort Worth, TX 76116
me@bhbc.com • 817.338.1277 • bhbc.com
TPE Firm #44, #1011060, 10011062, #1019146

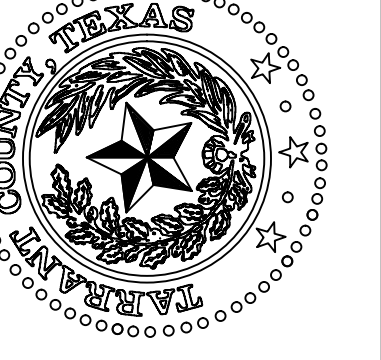


TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT
100 N LAMAR STREET FORT WORTH, TEXAS 76102

NO.	DESCRIPTION	DATE

PROFESSIONAL SEAL
LESLIE R. BROWN
60171
2/22/23

PROJECT NUMBER: 2021.010.042
DATE: 02/15/2023 DRAWN BY: EMS
DESIGN BY: LRB CHECKED BY: LRB
SHEET
MO-3
SHEET 3 OF 26 SHEETS TOTAL



TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT

100 N LAMAR STREET FORT WORTH, TEXAS 76102

LEVEL 1 FLOOR PLAN -
MECHANICAL

NO.	DESCRIPTION	DATE



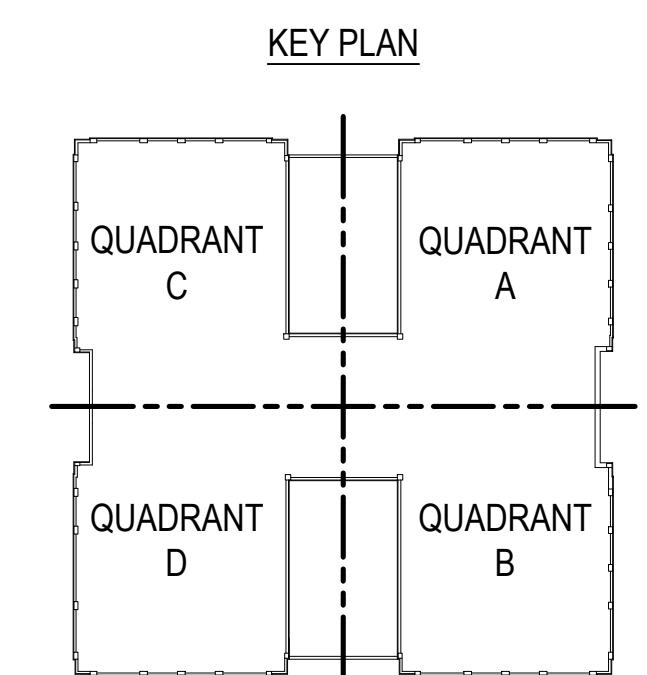
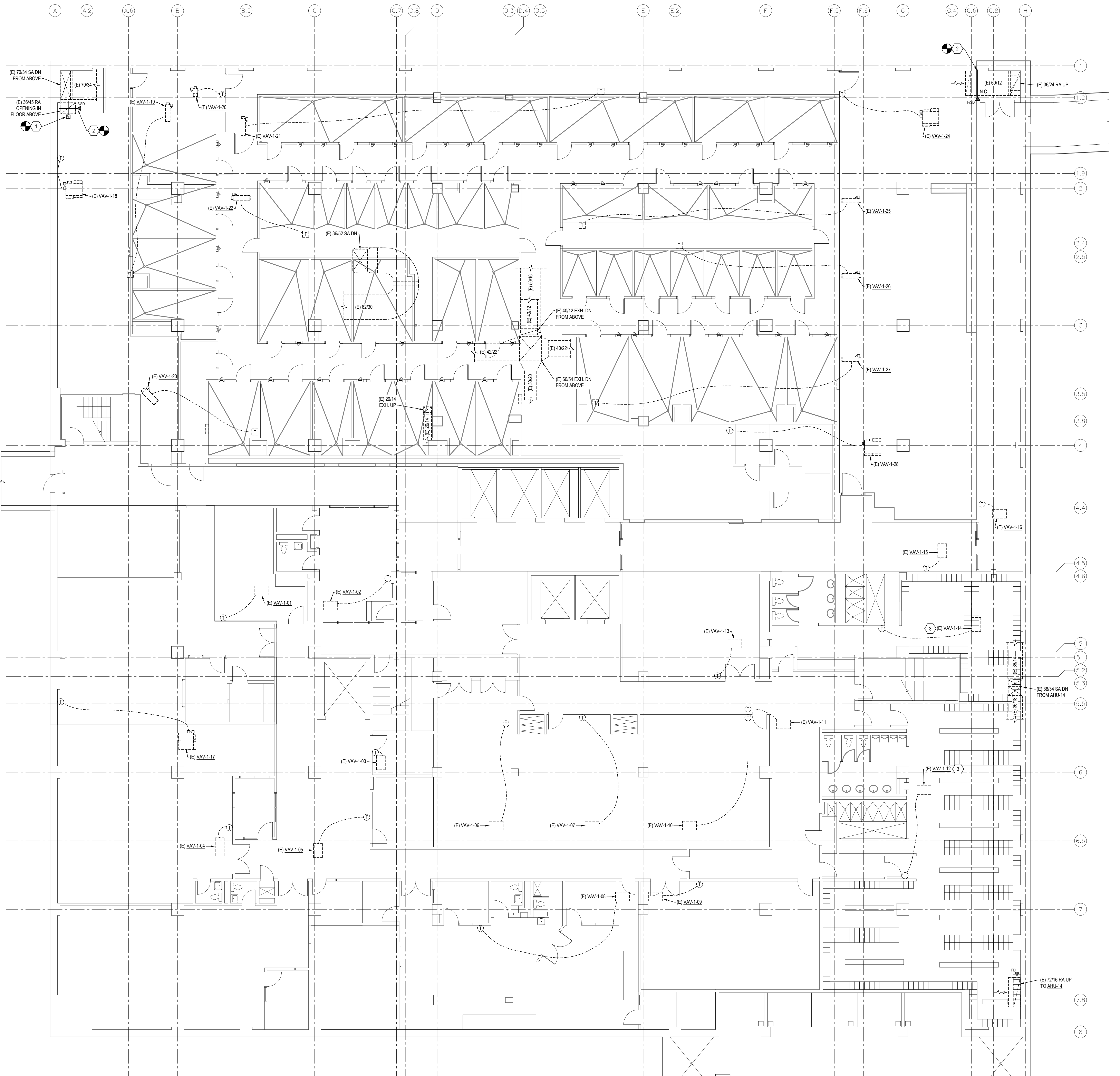
PROJECT NUMBER: 2021.010.042
DATE: 02/15/2023 DRAWN BY: EMS
DESIGN BY: LRB CHECKED BY: LRB
SHEET M1-1
SHEET 4 OF 26 M SHEETS TOTAL

NOTES BY SYMBOL: "A"

- REMOVE AND REPLACE (E) MOTORIZED DAMPER WITH NEW MOTORIZED DAMPER. REFER TO SHEET M3-1 AND M3-2 FOR ADDITIONAL INFORMATION.
- REMOVE AND REPLACE (E) FIRE/SMOKE DAMPER WITH NEW FIRE/SMOKE DAMPER. REFER TO SHEET M3-1 AND M3-2 FOR ADDITIONAL INFORMATION.
- REMOVE AND REPLACE (E) HYDRONIC HEATING WATER CONTROL VALVE AT (E) VAV BOX. NEW CONTROL VALVE TO BE PROVIDED BY THE BUILDING AUTOMATION CONTRACTOR. INSTALLED BY MECHANICAL CONTRACTOR.

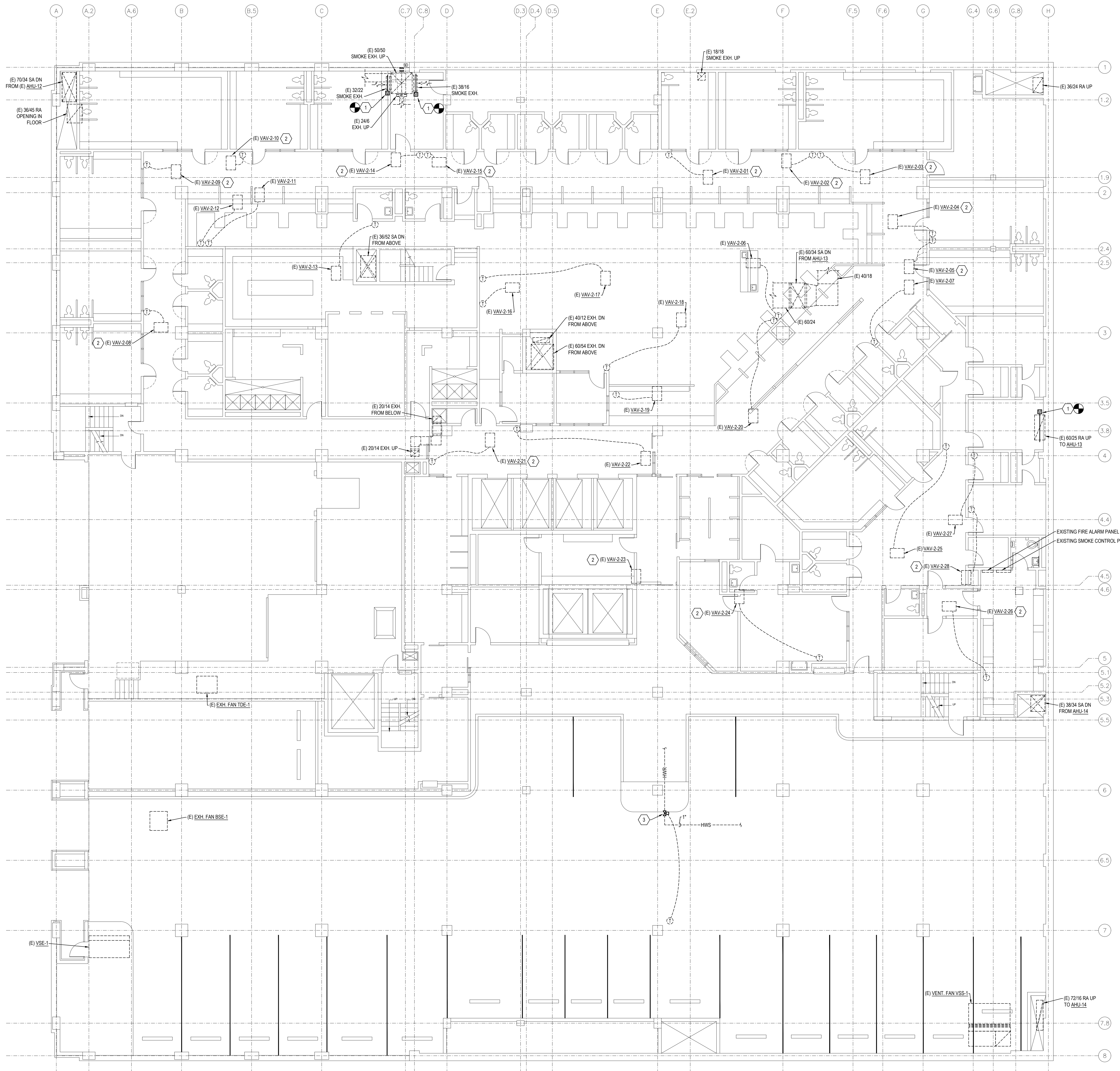
SHEET NOTES:

- CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.



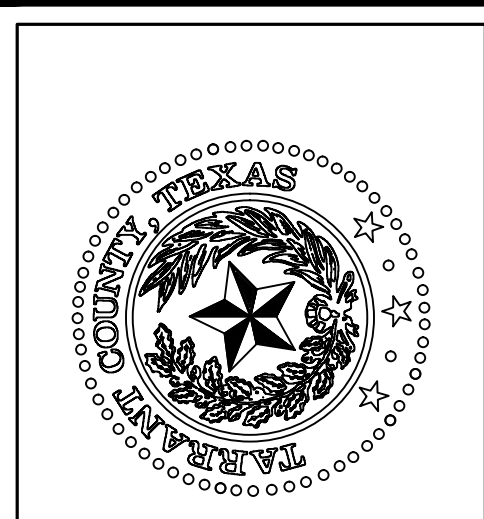
LEVEL 1 FLOOR PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"

2/22/2023 8:31 AM E:\2021\000\000021\010\ssv - Tarrant County Projects\2021\010\042 - Tarr Co Cor Cr AHU Replacement\01 Design & Drafting\05 Mech\M1-1.dwg M1-1



- NOTES BY SYMBOL: "4"**
- REMOVE AND REPLACE (E) MOTORIZED DAMPER WITH NEW MOTORIZED DAMPER. REFER TO SHEET M3-1 AND M3-2 FOR ADDITIONAL INFORMATION.
 - REMOVE AND REPLACE (E) HYDRONIC HEATING WATER CONTROL VALVE AT (E) VAV BOX. NEW CONTROL VALVE TO BE PROVIDED BY THE BUILDING AUTOMATION CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR.
 - REMOVE AND REPLACE (E) HYDRONIC HEATING WATER CONTROL VALVE ABOVE THE CEILING. NEW CONTROL VALVE TO BE PROVIDED BY THE BUILDING AUTOMATION CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR.

BIB
BAIRD, HAMPTON & BROWN
engineering and surveying
6300 Regatta Place, Suite 700 Fort Worth, TX 76116
mhb@bhbc.com • 817.338.1277 • bhbc.com
TPE Firm #44, #1031300, 1001302, #10194146



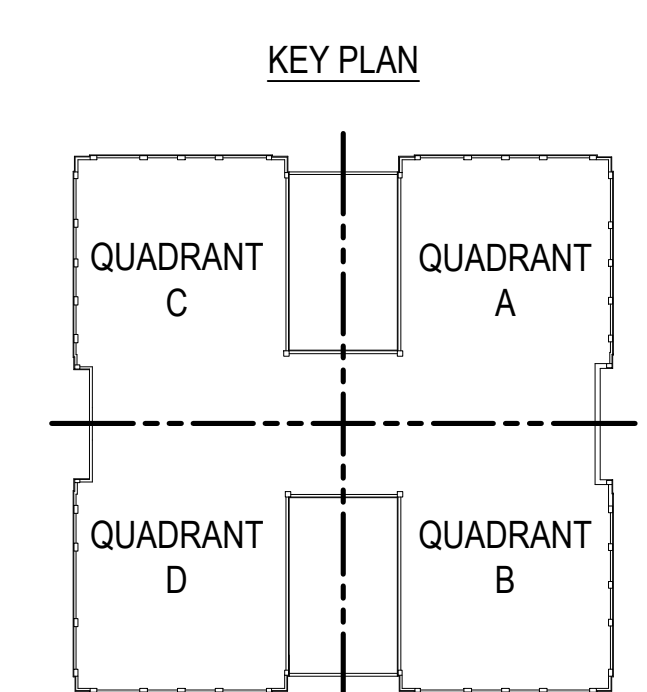
TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT
100 N LAMAR STREET FORT WORTH, TEXAS 76102

LEVEL 2 FLOOR PLAN - MECHANICAL

NO.	DESCRIPTION	DATE

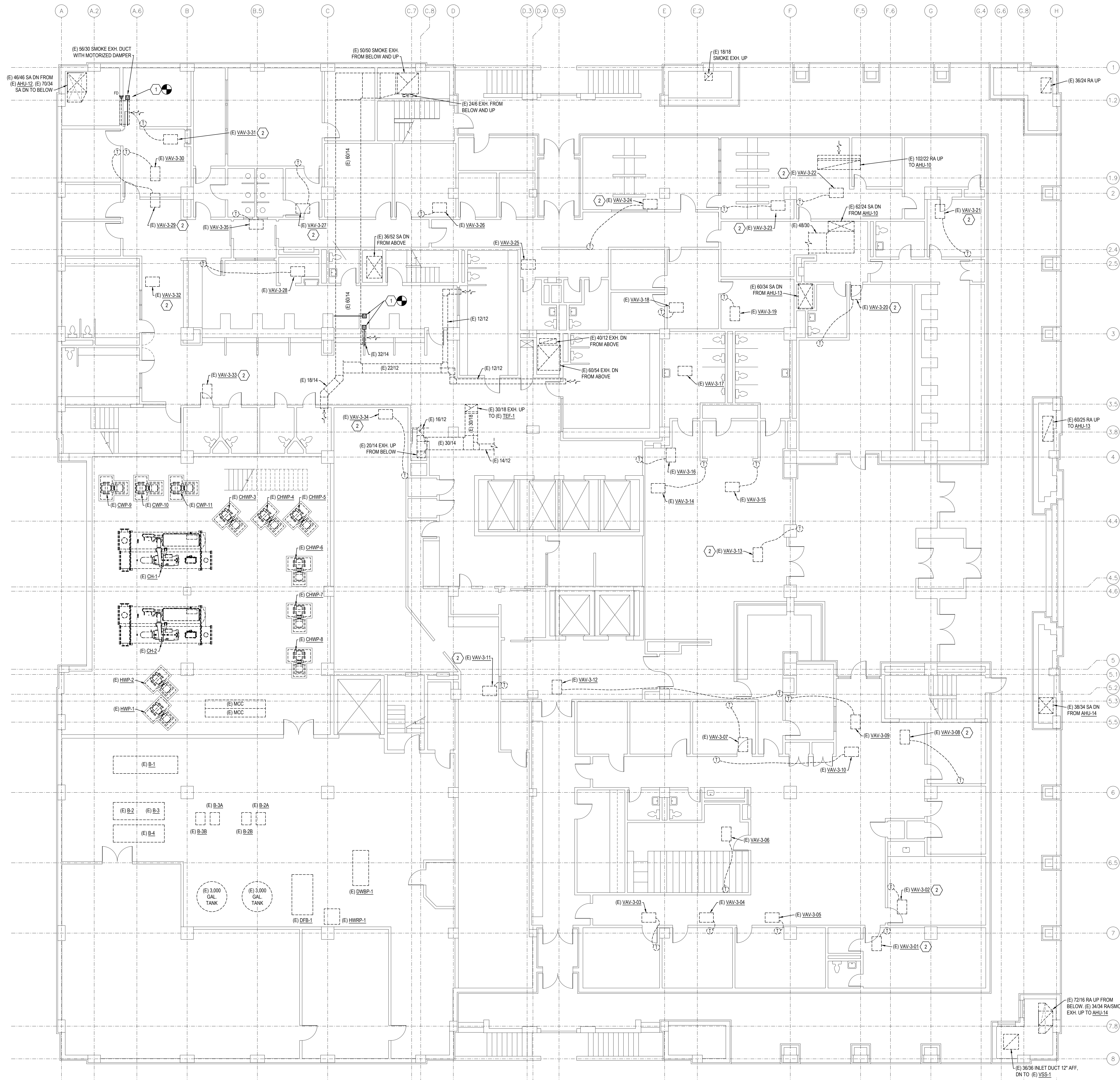
PROJECT NUMBER: 2021.010.042
DATE: 02/15/2023 DRAWN BY: EMS
DESIGN BY: LRB CHECKED BY: LRB
SHEET
M1-2
SHEET 5 OF 26 M SHEETS TOTAL

- SHEET NOTES:**
- CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.



LEVEL 2 FLOOR PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"

2/15/2023 8:16AM E:\2021\000\00002021\010\ssx - Tarrant County Projects\2021\010\042 - Tarr Co Cour Cr AHU Replacement\01 Design & Drafting\05 Mech\M1-2.dwg M1-2

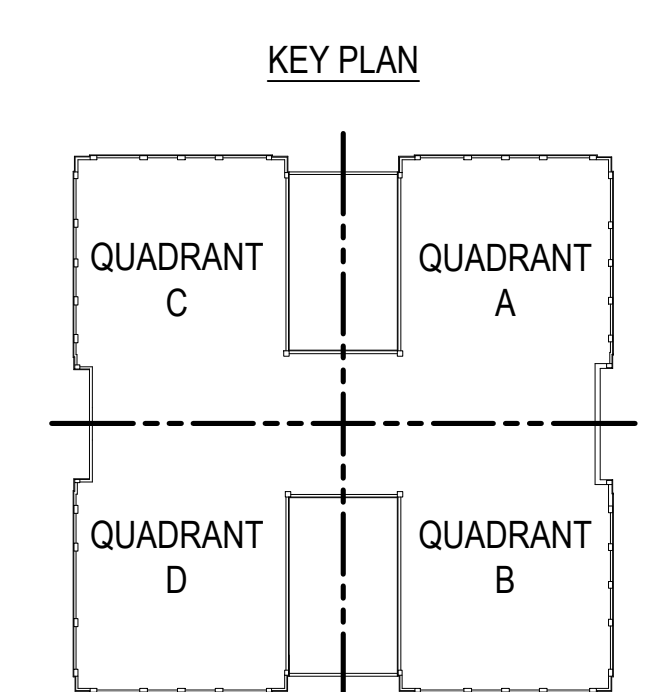


NOTES BY SYMBOL: "1"

- REMOVE AND REPLACE (E) MOTORIZED DAMPER WITH NEW MOTORIZED DAMPER. REFER TO SHEET M3-1 AND M3-2 FOR ADDITIONAL INFORMATION.
- REMOVE AND REPLACE (E) HYDRONIC HEATING WATER CONTROL VALVE AT (E) VAV BOX. NEW CONTROL VALVE TO BE PROVIDED BY THE BUILDING AUTOMATION CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR.

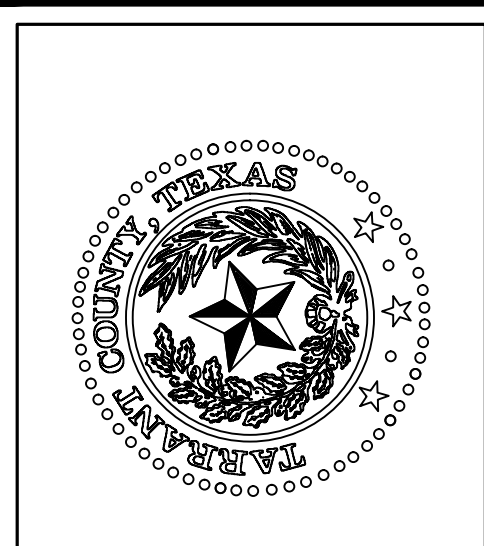
SHEET NOTES:

- CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.



1
M1-3
LEVEL 3 FLOOR PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"

BIB
BAIRD, HAMPTON & BROWN
engineering and surveying
6300 Regatta Place, Suite 700 Fort Worth, TX 76116
mhb@bhbc.com • 817.338.1277 • bhbc.com
TDP Firm #44, #1031306, 1001302, #019146



TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT

100 N LAMAR STREET FORT WORTH, TEXAS 76102

LEVEL 3 FLOOR PLAN -
MECHANICAL

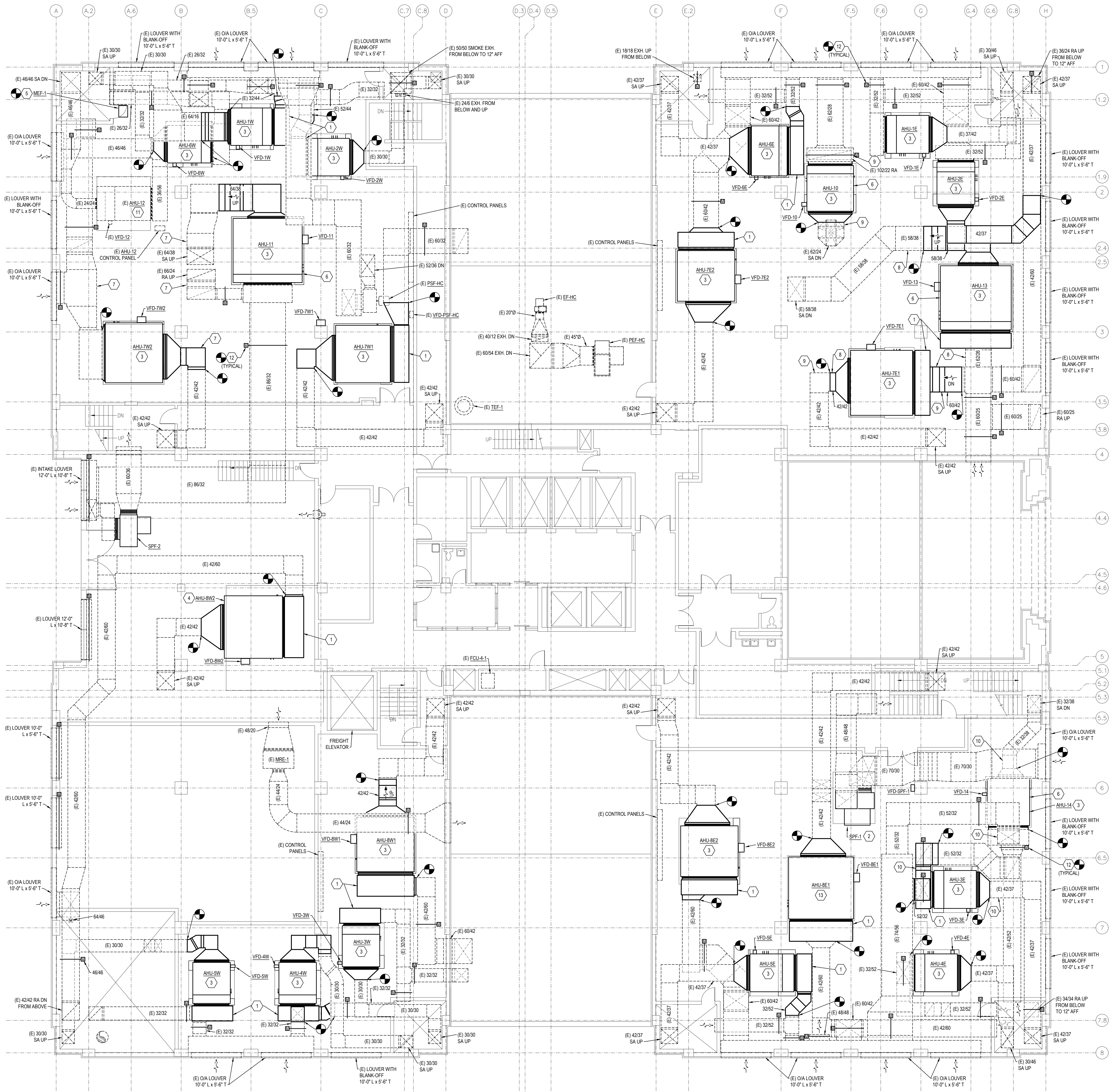
NO.	DESCRIPTION	DATE

PROFESSIONAL SEAL
LESLIE R. BROWN
60171
2/22/23

PROJECT NUMBER: 2021.010.042
DATE: 02/15/2023 DRAWN BY: EMS
DESIGN BY: LRB CHECKED BY: LRB

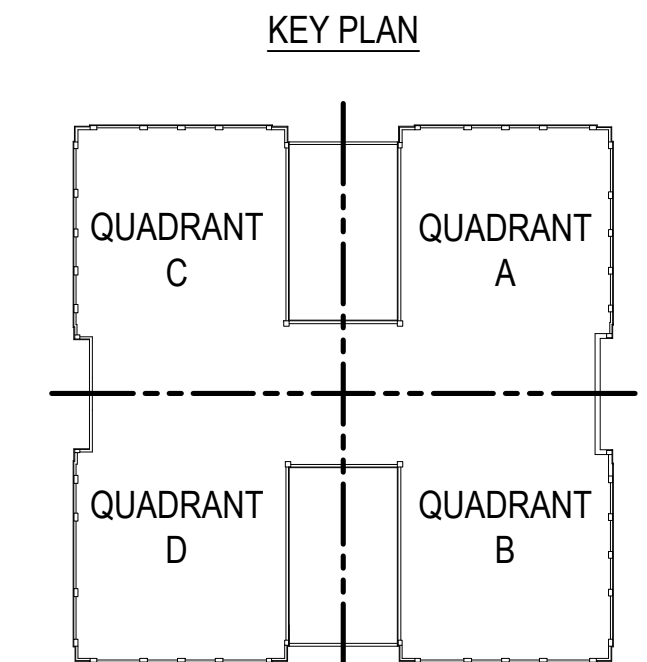
SHEET
M1-3
SHEET 6 OF 26 M SHEETS TOTAL

2/15/2023 8:16AM E:\2021\000\000021\010\m1-3 - Tarrant County Projects\2021\010\042 - Tarrant County AHU Replacement\01 Design & Drafting\05 Mech\M1-3.dwg M1-3



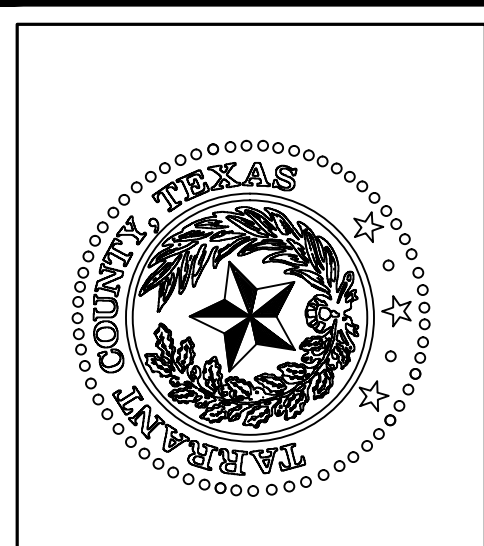
- NOTES BY SYMBOL: "4"**
- INSTALL NEW RETURN AIR PLENUM BOX WITH 2" A.L. AND CONNECT (E) RETURN AND (E) OIA DUCTWORK REFER TO AHU SECTIONS ON SHEETS M-2 AND M-3 FOR ADDITIONAL INFORMATION.
 - INSTALL NEW STARWELL PRESSURIZATION FAN ON (E) CONCRETE PAD ON A CONTINUOUS NEOPRENE VIBRATION ISOLATION PAD UNDER THE BASE RAILS. CONNECT (E) DUCTWORK TO NEW FAN.
 - INSTALL NEW AHU ON (E) CONCRETE PAD ON A CONTINUOUS NEOPRENE VIBRATION ISOLATION PAD UNDER THE FULL LENGTH OF THE BASE RAILS. ENLARGE (E) CONCRETE PAD AS REQUIRED TO INSTALL NEW AHU. REFER TO DETAIL 7M-1. CONNECT (E) SUPPLY AND RETURN DUCTWORK TO NEW AHU. ROUTE CONDENSATE DRAIN TO (E) FLOOR DRAIN AND DISCHARGE INDIRECT WITH AN "AIR GAP."
 - INSTALL NEW AHU ON MEZZANINE IN THE CHILLER ROOM. CONNECT (E) SUPPLY AND (E) RETURN DUCTWORK TO NEW AHU.
 - INSTALL NEW SUSPENDED INLINE EXHAUST FAN MEF-1. CONNECT (E) DUCTWORK TO NEW FAN.
 - AREA SERVED BY THIS AHU NEEDS TO HAVE TEMPERATURE CONTROL 24/7. PROVIDE TEMPORARY CONDITIONING FROM ADJACENT NEW AHU USING MULTIPLE TEMPORARY ROUND FLEXIBLE DUCTS (OR EQUIVALENT) RATED FOR MINIMUM 5" SP.
 - AFTER NEW AHU-7W2 IS INSTALLED. EXTEND (9) TEMPORARY 18" FLEX DUCTS EACH FROM AHU-7W2 SUPPLY AIR AND RETURN DUCTWORK TO FEED AHU-11 SUPPLY AND RETURN DUCTWORK WHILE AHU-11 IS REPLACED.
 - AFTER NEW AHU-7E1 IS INSTALLED. EXTEND (9) TEMPORARY 18" FLEX DUCTS EACH FROM AHU-7E1 SUPPLY AIR AND RETURN DUCTWORK TO FEED AHU-13 SUPPLY AND RETURN DUCTWORK WHILE AHU-13 IS REPLACED.
 - AFTER NEW AHU-13 IS INSTALLED. EXTEND (5) TEMPORARY 18" FLEX DUCTS EACH FROM AHU-7E2 SUPPLY AIR AND RETURN DUCTWORK TO FEED AHU-10 SUPPLY AND RETURN DUCTWORK WHILE AHU-10 IS REPLACED.
 - AFTER NEW AHU-5E IS INSTALLED. EXTEND (3) TEMPORARY 18" FLEX DUCTS EACH FROM AHU-5E SUPPLY AIR AND RETURN DUCTWORK TO FEED AHU-14 SUPPLY AND RETURN DUCTWORK WHILE AHU-14 IS REPLACED.
 - INSTALL NEW UV-LIGHT UPSTREAM OF COIL SECTION IN (E) AHU-12. UV LIGHTS SHALL BE SIZED FOR 25 WATTS / SF OF COIL, 120V/10 CIRCUIT, AND SHALL AUTOMATICALLY DISABLE WHENEVER ANY CABINET DOOR IS OPEN.
 - REMOVE AND REPLACE EACH (E) MOTORIZED DAMPER WITH NEW MOTORIZED DAMPER. REFER TO SHEET M-1 AND M-2 FOR ADDITIONAL INFORMATION.
 - INSTALL NEW AHU ON (E) CONCRETE PAD ON A CONTINUOUS NEOPRENE VIBRATION ISOLATION PAD UNDER THE FULL LENGTH OF THE BASE RAILS. CONNECT (E) SUPPLY AND (E) RETURN DUCTWORK TO NEW AHU. ROUTE CONDENSATE DRAIN TO (E) FLOOR DRAIN AND DISCHARGE INDIRECT WITH AN "AIR GAP."

- SHEET NOTES:**
- CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE-SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.
 - ALL NEW AHUS SHALL BE INSTALLED ON THE EXISTING CONCRETE PADS AND SHALL HAVE A CONTINUOUS NEOPRENE VIBRATION ISOLATION PAD UNDER THE FULL LENGTH OF THE BASE RAILS.
 - ALL EXISTING CONCRETE PADS REQUIRED TO BE ENLARGED FOR NEW EQUIPMENT SHALL BE COORDINATED ON SITE WITH ALL EXISTING UTILITIES, FLOOR DRAINS, AND CONDITIONS. DO NOT ENLARGE EXISTING PADS OVER ANY EXISTING FLOOR DRAINS.



LEVEL 4 FLOOR PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"

BIB
BAIRD, HAMPTON & BROWN
engineering and surveying
6300 Regatta Place, Suite 700 Fort Worth, TX 76116
me@bahbc.com • 817.338.1277 • bahbc.com
TPE Firm #44, #1017686, 1001762, #019146



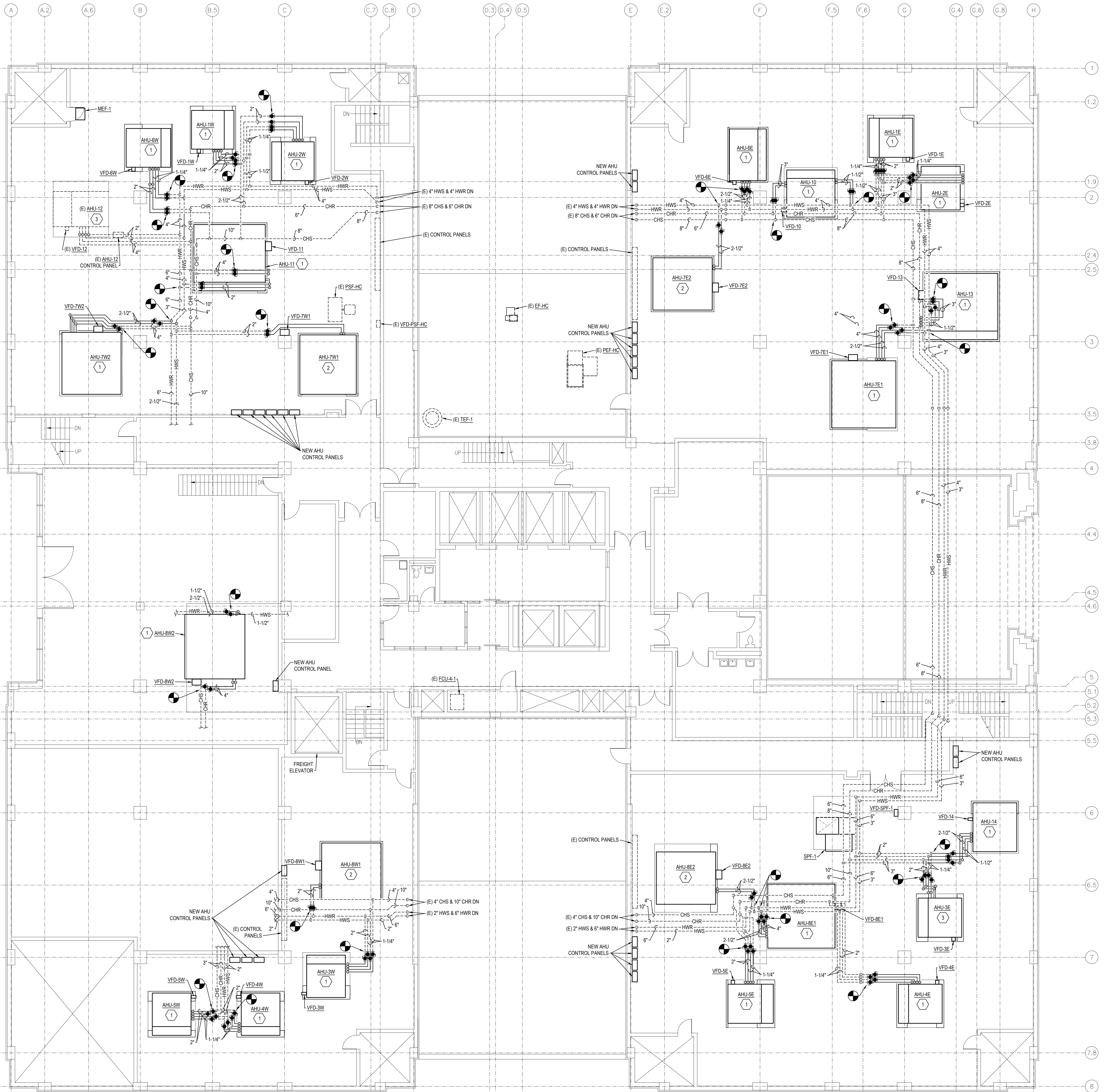
**TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT**
100 N LAMAR STREET FORT WORTH, TEXAS 76102

LEVEL 4 FLOOR PLAN - MECHANICAL

NO.	DESCRIPTION	DATE

PROJECT NUMBER: 2021.010.042
DATE: 02/15/2023 DRAWN BY: EMS
DESIGN BY: LRB CHECKED BY: LRB
M1-4
SHEET 7 OF 26 M SHEETS TOTAL

2.22.2023 10:30AM E:\021\000\00002021\01\Draw - Tarrant County Projects\2023\01042 - Tarr Co Corr Ctr AHU Replacement\01 Design & Drafting\08 Mech\M1-4.dwg M1-4



LEVEL 4 FLOOR PLAN - HYDRONIC
SCALE: 1/8" = 1'-0"

NOTES BY SYMBOL:

- INSTALL BRANCH ISOLATION BALL VALVES AND CONTROL VALVES IN (E) BRANCH PIPING AND ROUTE NEW CHS, CHR, HWS, AND HWR TO NEW AHU. REFER TO DETAILS AHU-1 AND AHU-1. NEW CONTROL VALVES TO BE PROVIDED BY THE BUILDING AUTOMATION CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR.
- INSTALL BRANCH ISOLATION BALL VALVES AND CONTROL VALVES IN (E) BRANCH PIPING AND ROUTE NEW HWS AND HWR TO NEW AHU. REFER TO DETAIL AHU-1. NEW CONTROL VALVES TO BE PROVIDED BY THE BUILDING AUTOMATION CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR.
- INSTALL NEW CONTROL VALVES IN (E) HYDRONIC HEATING WATER AND CHILLED WATER PIPING AT (E) AHU-12. NEW CONTROL VALVES TO BE PROVIDED BY THE BUILDING AUTOMATION CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR.

HYDRONIC PIPING NOTE:

THIS PROJECT WILL INCLUDE REPLACEMENT OF EXISTING BRANCH ISOLATION VALVES TO EACH AHU COIL. THERE ARE NO EXISTING SECTIONALIZING VALVES TO ISOLATE PIPING TO EACH MECHANICAL ROOM. THE CONTRACTOR WILL NEED TO MAKE PROVISIONS FOR USING FREEZE PLUGS AS REQUIRED TO ISOLATE BRANCH PIPING FOR INSTALLATION OF NEW BRANCH ISOLATION VALVES.

EQUIPMENT ROOM PIPING COLORS

SYSTEM	COLOR
CHILLED WATER PIPING	SAFETY BLUE
HYDRONIC HEATING WATER PIPING	ORANGE

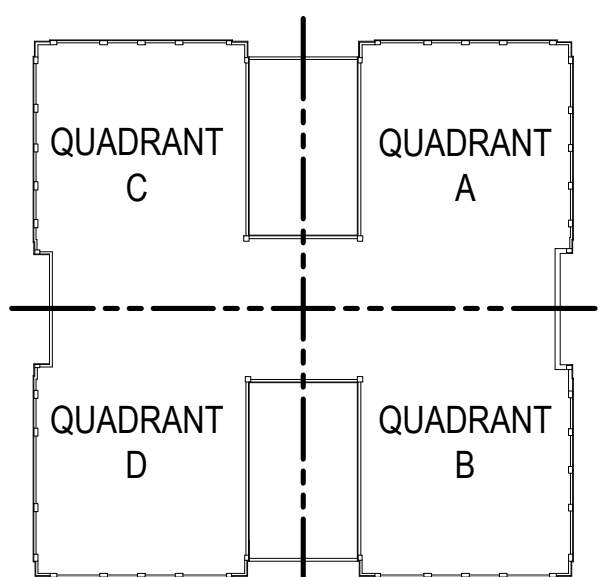
NOTES:

- THIS SCHEDULE CONSTITUTES THE COLOR REQUIREMENTS FOR THE VARIOUS PIPING SYSTEMS. WRAP ALL NEW PIPING INSULATION WITH COLORED PVC JACKET. REFER TO SPECIFICATIONS.

SHEET NOTES:

- CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.

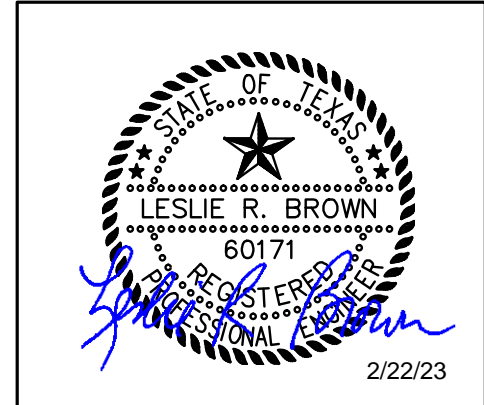
KEY PLAN



**TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT**

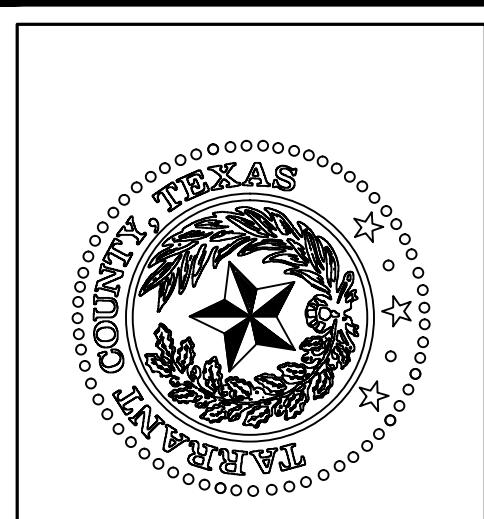
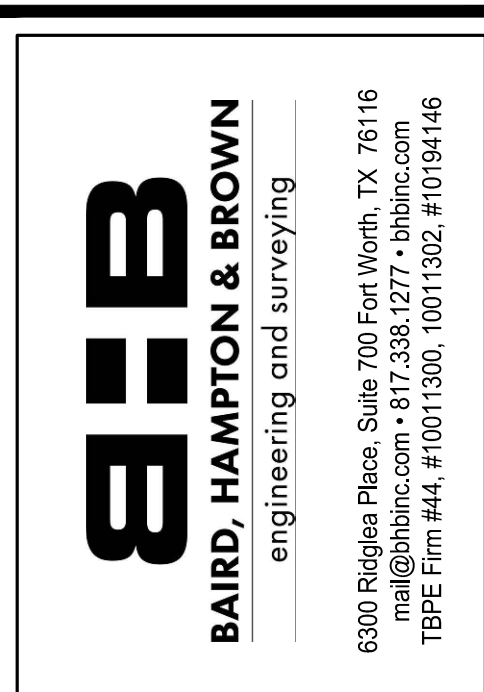
100 N LAMAR STREET FORT WORTH, TEXAS 76102

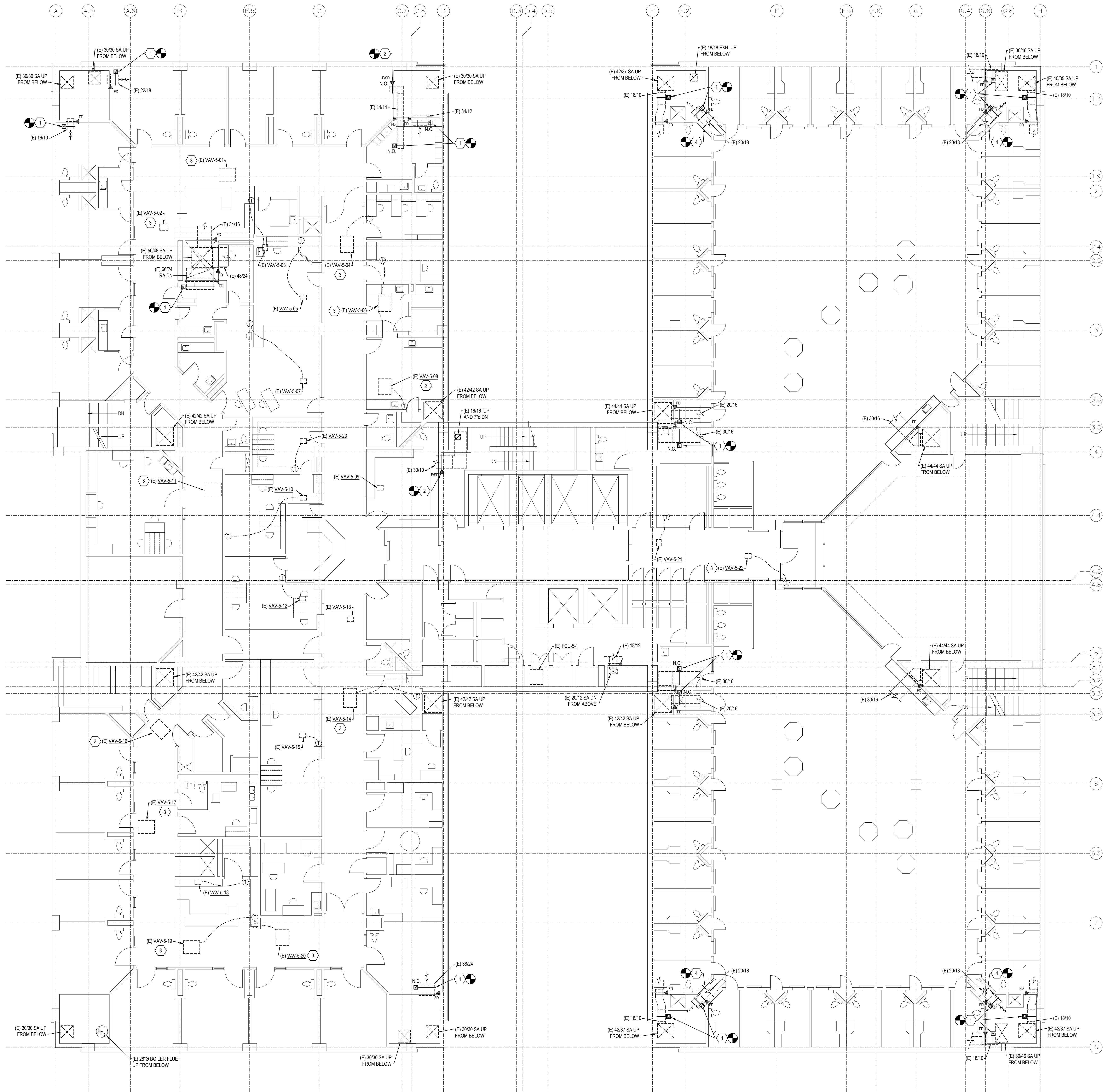
**LEVEL 4 FLOOR PLAN -
HYDRONIC**



PROJECT NUMBER: 2021.010.042
DATE: 02/15/2023 DRAWN BY: EMS
DESIGN BY: LRB CHECKED BY: LRB

SHEET
M1-4H
SHEET 8 OF 28 M SHEETS TOTAL





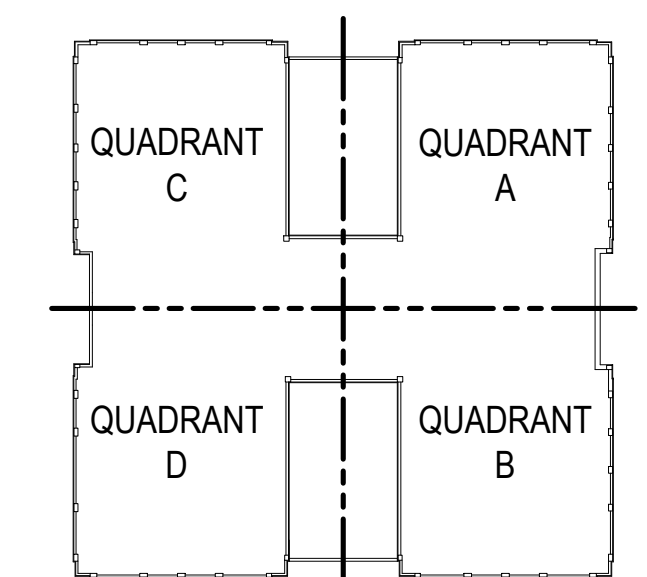
NOTES BY SYMBOL: "4"

1. REMOVE AND REPLACE (E) MOTORIZED DAMPER WITH NEW MOTORIZED DAMPER. REFER TO SHEET M3-1 AND M3-2 FOR ADDITIONAL INFORMATION.
2. REMOVE AND REPLACE (E) FIRE/SMOKE DAMPER WITH NEW FIRE/SMOKE DAMPER. REFER TO SHEET M3-1 AND M3-2 FOR ADDITIONAL INFORMATION.
3. REMOVE AND REPLACE (E) HYDRONIC HEATING WATER CONTROL VALVE AT (E) VAV BOX. NEW CONTROL VALVE TO BE PROVIDED BY THE BUILDING AUTOMATION CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR.
4. REMOVE AND REPLACE (E) 2 SECTION F/SD ABOVE CHASE ACCESS DOOR WITH NEW SINGLE SECTION 20"x46" F/SD (NO).

SHEET NOTES:

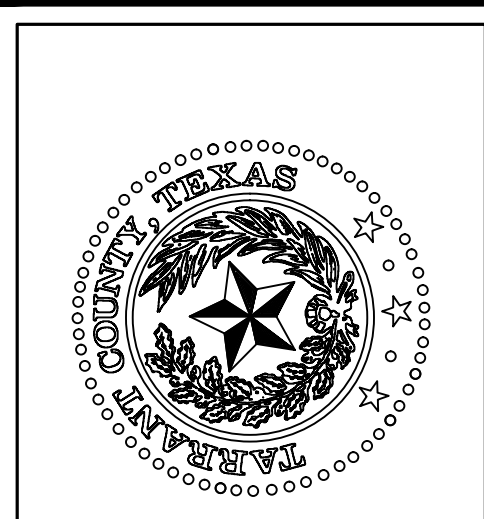
1. CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.
2. REMOVE AND REPLACE EXISTING SECURITY CEMENT PLASTER CEILING AS REQUIRED TO ACCESS DAMPERS. REPLACE EXISTING ACCESS DOOR WITH NEW ACCESS DOOR. MATCH EXISTING SIZE OR INCREASE AS REQUIRED.

KEY PLAN



1
M1-5
SCALE: 1/8" = 1'-0"
LEVEL 5 FLOOR PLAN - MECHANICAL

BIB
BAIRD, HAMPTON & BROWN
engineering and surveying
6300 Regatta Place, Suite 700 Fort Worth, TX 76116
mhb@bhbc.com • 817.338.1277 • bhbc.com
TBP# Firm#44, #1011000, 10011002, #1019146



TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT

100 N LAMAR STREET FORT WORTH, TEXAS 76102

LEVEL 5 FLOOR PLAN -
MECHANICAL

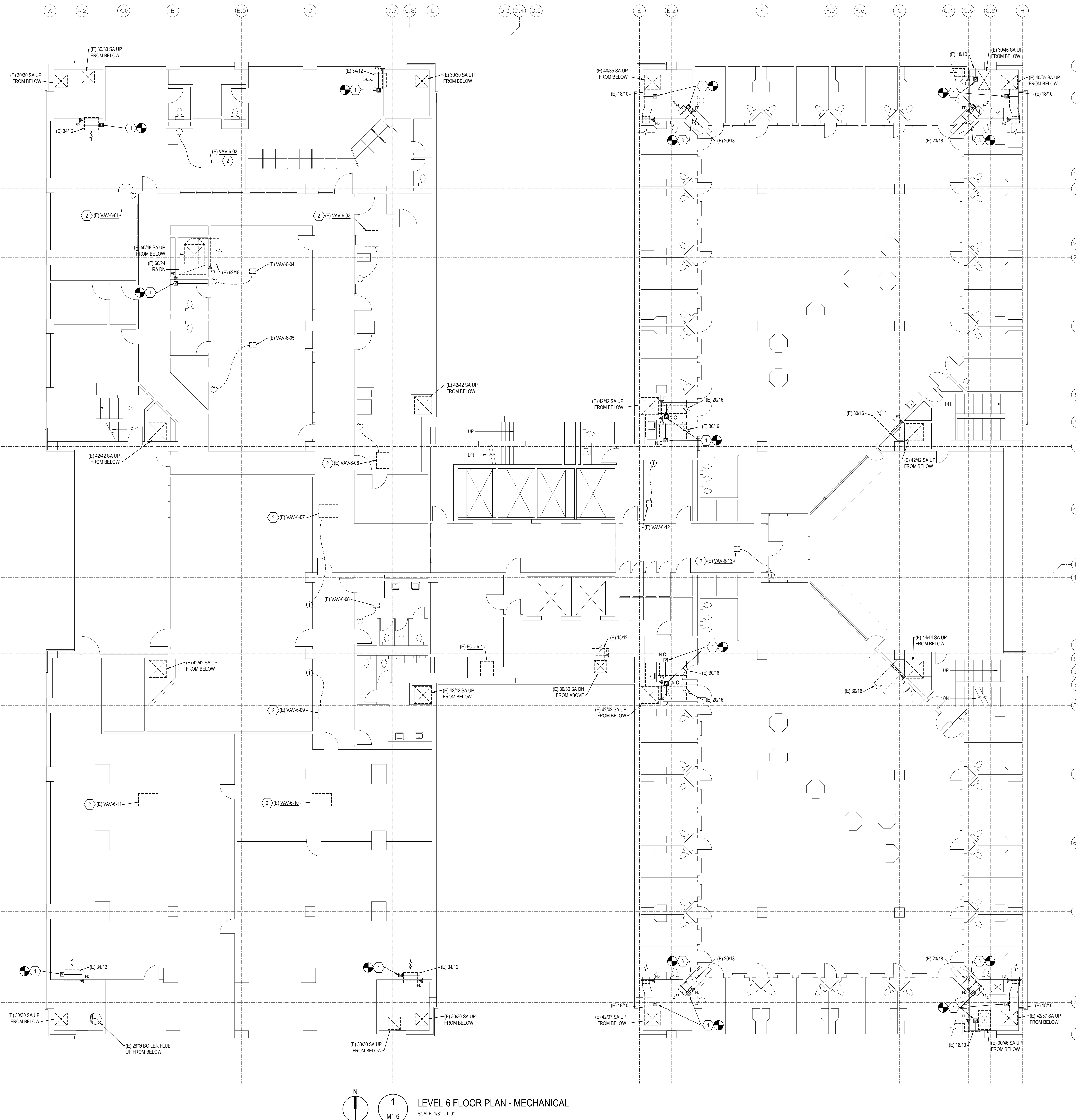
NO.	DESCRIPTION	DATE

PROFESSIONAL SEAL
LESLIE R. BROWN
STATE OF TEXAS
LICENSED MECHANICAL ENGINEER
60171
2/22/23

PROJECT NUMBER: 2021.010.042
DATE: 02/15/2023 DRAWN BY: EMS
DESIGN BY: LRB CHECKED BY: LRB

SHEET
M1-5
SHEET 9 OF 26 M SHEETS TOTAL

2.15.2023 8:16AM E:\2021\000\00002021\010\042 - Tarrant County Projects\2021\010\042 - Tarrant County AHU Replacement\01 Design & Drafting\05 Mech\M1-5.dwg M1-5



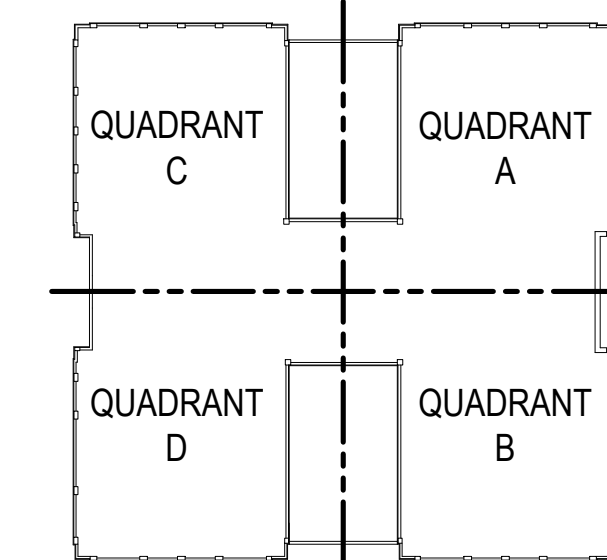
NOTES BY SYMBOL: "④"

- REMOVE AND REPLACE (E) MOTORIZED DAMPER WITH NEW MOTORIZED DAMPER. REFER TO SHEET M3-1 AND M3-2 FOR ADDITIONAL INFORMATION.
- REMOVE AND REPLACE (E) HYDRONIC HEATING WATER CONTROL VALVE AT (E) VAV BOX. NEW CONTROL VALVE TO BE PROVIDED BY THE BUILDING AUTOMATION CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR.
- REMOVE AND REPLACE (E) 2 SECTION F/SD ABOVE CHASE ACCESS DOOR WITH NEW SINGLE SECTION 20"x46" F/SD (NO).

SHEET NOTES:

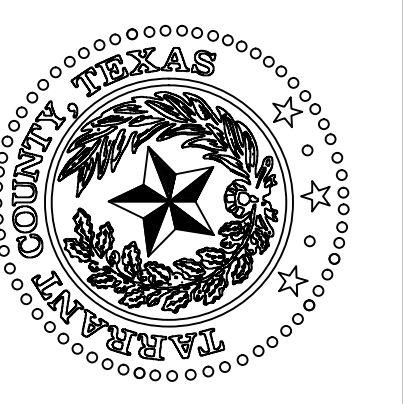
- CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.
- REMOVE AND REPLACE EXISTING SECURITY CEMENT PLASTER CEILING AS REQUIRED TO ACCESS DAMPERS. REPLACE EXISTING ACCESS DOOR WITH NEW ACCESS DOOR. MATCH EXISTING SIZE OR INCREASE AS REQUIRED.

KEY PLAN



1 LEVEL 6 FLOOR PLAN - MECHANICAL
 SCALE: 1/8" = 1'-0"

BIB
BAIRD, HAMPTON & BROWN
 engineering and surveying
 6300 Regatta Place, Suite 700 Fort Worth, TX 76116
 mhb@bhbc.com • 817.338.1277 • bhbc.com
 TPE Firm #44, #1011066, 1001062, #0194146



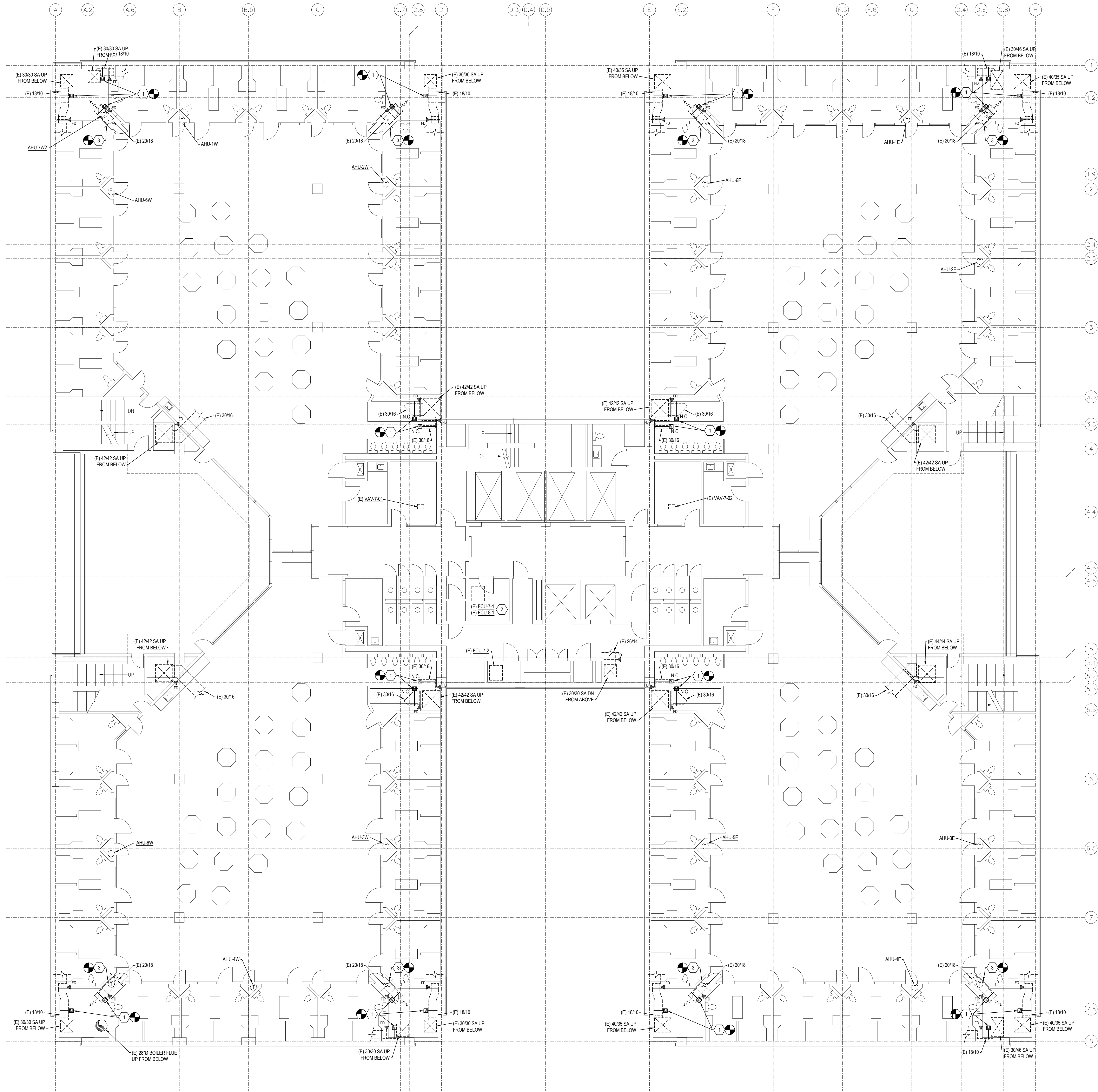
**TARRANT COUNTY CORRECTIONS CENTER
 AHU REPLACEMENT PROJECT**
 100 N LAMAR STREET FORT WORTH, TEXAS 76102

LEVEL 6 FLOOR PLAN - MECHANICAL		DATE
NO.	DESCRIPTION	

LESLIE R. BROWN
 60171
 2/22/23

PROJECT NUMBER: 2021.010.042
 DATE: 02/15/2023 DRAWN BY: EMS
 DESIGN BY: LRB CHECKED BY: LRB
SHEET M1-6
 SHEET 10 OF 26 M SHEETS TOTAL

2/15/2023 8:16AM E:\2021\000\000021\010\000 - Tarrant County Projects\2021\010\042 - Tar Co Cor Cr AHU Replacement\01 Design & Drafting\05 Mech\M1-7.dwg M1-7



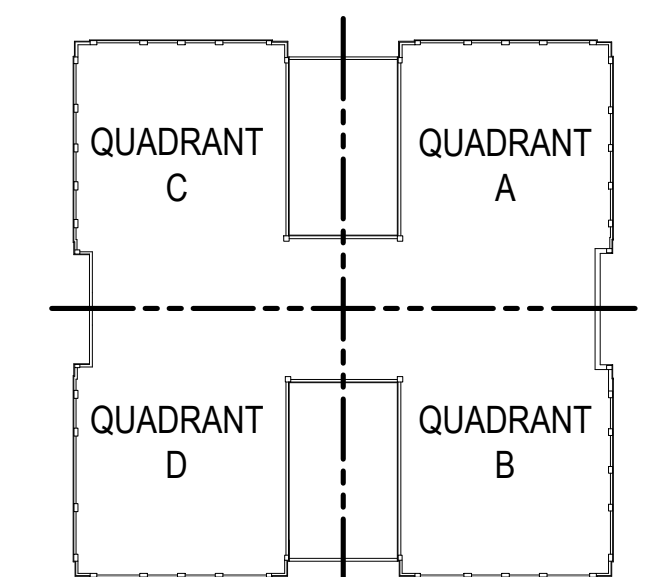
NOTES BY SYMBOL: "A"

- REMOVE AND REPLACE (E) MOTORIZED DAMPER WITH NEW MOTORIZED DAMPER. REFER TO SHEET M3-1 AND M3-2 FOR ADDITIONAL INFORMATION.
- REMOVE AND REPLACE (E) CHILLED WATER CONTROL VALVE AT (E) FCU NEW CONTROL VALVE TO BE PROVIDED BY THE BUILDING AUTOMATION CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR.
- REMOVE AND REPLACE (E) 2 SECTION F/SD ABOVE CHASE ACCESS DOOR WITH NEW SINGLE SECTION 20"x46" F/SD (NO).

SHEET NOTES:

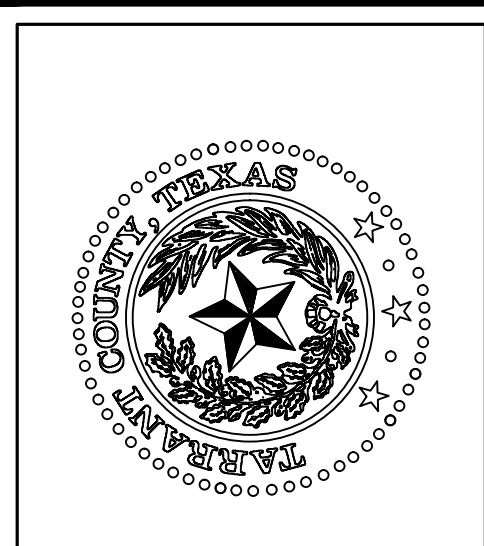
- CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.
- REMOVE AND REPLACE EXISTING SECURITY CEMENT PLASTER CEILING AS REQUIRED TO ACCESS DAMPERS. REPLACE EXISTING ACCESS DOOR WITH NEW ACCESS DOOR. MATCH EXISTING SIZE OR INCREASE AS REQUIRED.

KEY PLAN



LEVEL 7 & 8 FLOOR PLAN - MECHANICAL
 SCALE: 1/8" = 1'-0"

BIB
BAIRD, HAMPTON & BROWN
 engineering and surveying
 6300 Regatta Place, Suite 700 Fort Worth, TX 76116
 mhb@bhbc.com • 817.338.1277 • bhbc.com
 TBP# Firm#44, #1011000, 10011002, #019146



**TARRANT COUNTY CORRECTIONS CENTER
 AHU REPLACEMENT PROJECT**

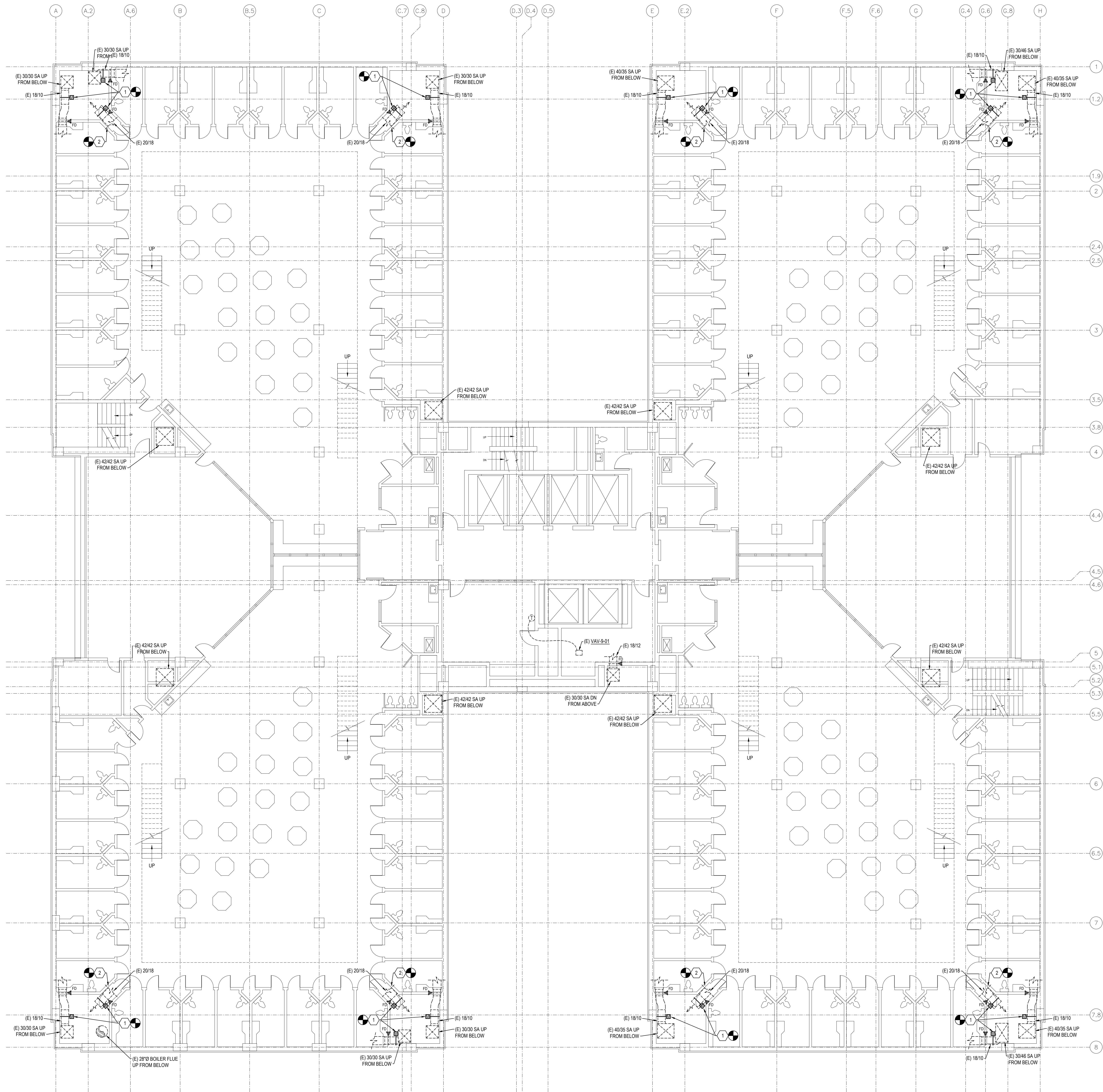
100 N LAMAR STREET FORT WORTH, TEXAS 76102

**LEVEL 7 & 8 FLOOR PLAN -
 MECHANICAL**

NO.	DESCRIPTION	DATE

2/22/23

PROJECT NUMBER: 2021.010.042
 DATE: 02/15/2023 DRAWN BY: EMS
 DESIGN BY: LRB CHECKED BY: LRB
SHEET
M1-7
 SHEET 11 OF 26 M SHEETS TOTAL

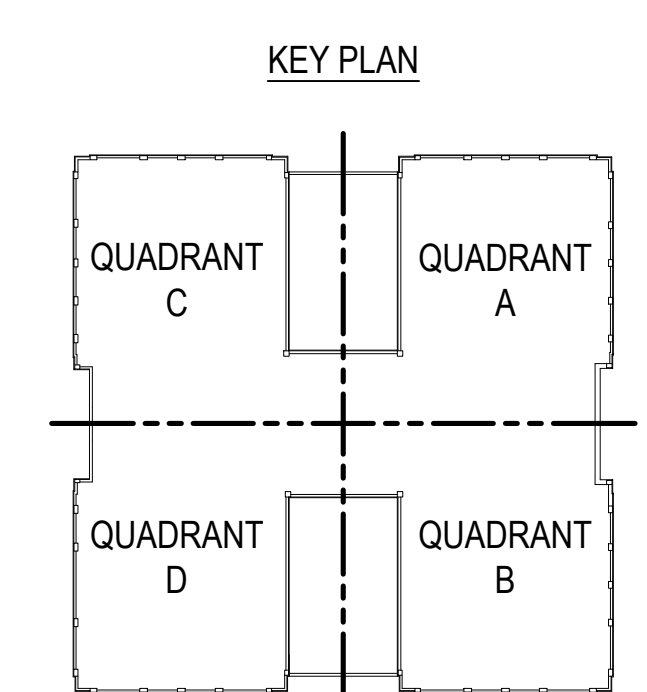


NOTES BY SYMBOL: "Ⓢ"

- REMOVE AND REPLACE (E) MOTORIZED DAMPER WITH NEW MOTORIZED DAMPER. REFER TO SHEET M3-1 AND M3-2 FOR ADDITIONAL INFORMATION.
- REMOVE AND REPLACE (E) 2 SECTION F1SD ABOVE CHASE ACCESS DOOR WITH NEW SINGLE SECTION 20"x46" F1SD (NO).

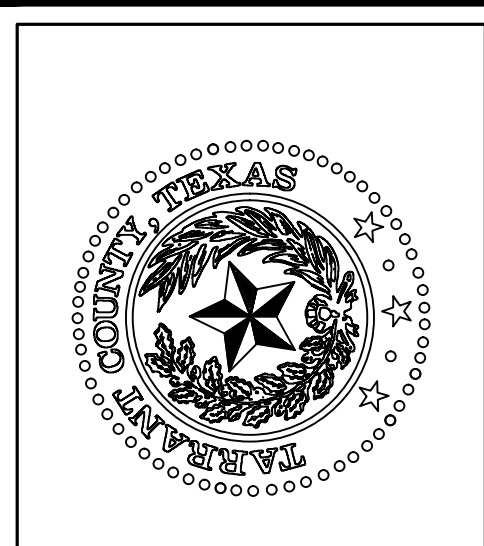
SHEET NOTES:

- CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.
- REMOVE AND REPLACE EXISTING SECURITY CEMENT PLASTER CEILING AS REQUIRED TO ACCESS DAMPERS. REPLACE EXISTING ACCESS DOOR WITH NEW ACCESS DOOR. MATCH EXISTING SIZE OR INCREASE AS REQUIRED.



1
M1-8
SCALE: 1/8" = 1'-0"
LEVEL 9, 10, 11, 12, & 13 FLOOR PLAN - MECHANICAL

BIB
BAIRD, HAMPTON & BROWN
engineering and surveying
6300 Regatta Place, Suite 700 Fort Worth, TX 76116
me@bhb.com • 817.338.1277 • bhb.com
TDP Firm #44, #1011366, 10011062, #1019446



**TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT**
100 N LAMAR STREET FORT WORTH, TEXAS 76102

**LEVEL 9, 10, 11, 12, & 13
FLOOR PLAN - MECHANICAL**

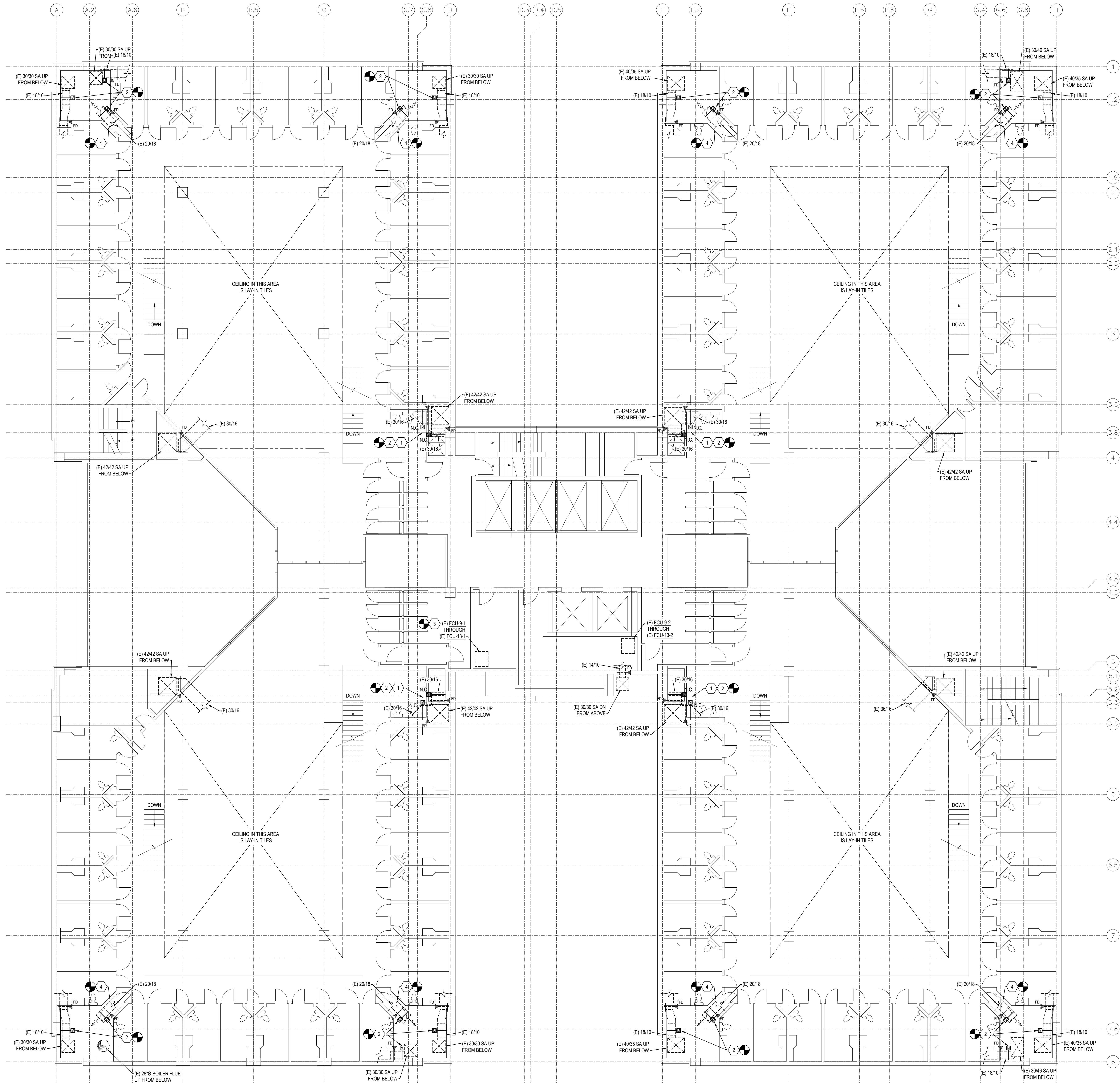
NO.	DESCRIPTION	DATE

PROFESSIONAL SEAL
LESLIE R. BROWN
60171
2/22/23

PROJECT NUMBER: 2021.010.042
DATE: 02/15/2023 DRAWN BY: EMS
DESIGN BY: LRB CHECKED BY: LRB
**SHEET
M1-8**
SHEET 12 OF 26 M SHEETS TOTAL

2.15.2023 8:16AM E:\2021\000\000021\010\pax - Tarrant County Projects\2021\010\042 - Tarrant County AHU Replacement\01 Design & Drafting\05 Mech\M1-8.dwg M1-8

2/15/2023 8:13AM E:\2021\000\000021\010\ssx - Tarrant County Projects\2021\010\042 - Tar Co Cour Oz AHU Replacement\01 Design & Drafting\05 Mech\M1-9.dwg M1-9



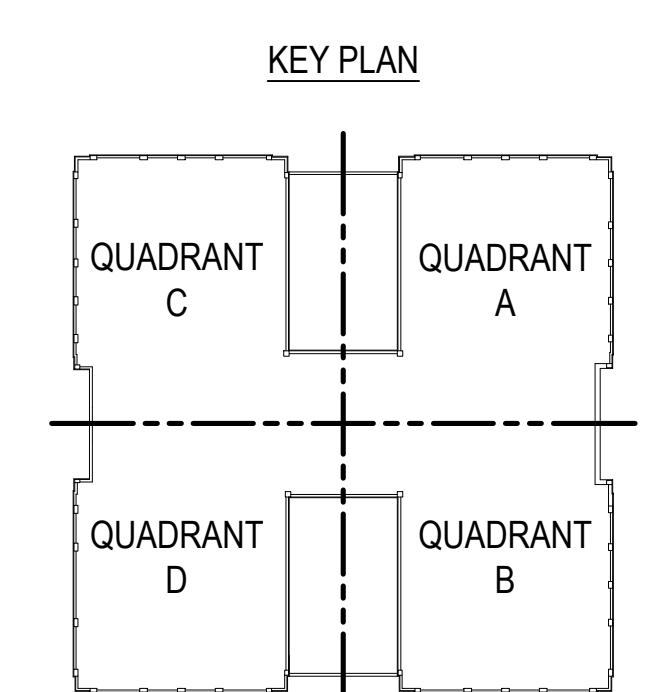
LEVEL 9M, 10M, 11M, 12M, & 13M FLOOR PLAN - MECHANICAL
 SCALE: 1/8" = 1'-0"

NOTES BY SYMBOL: "4"

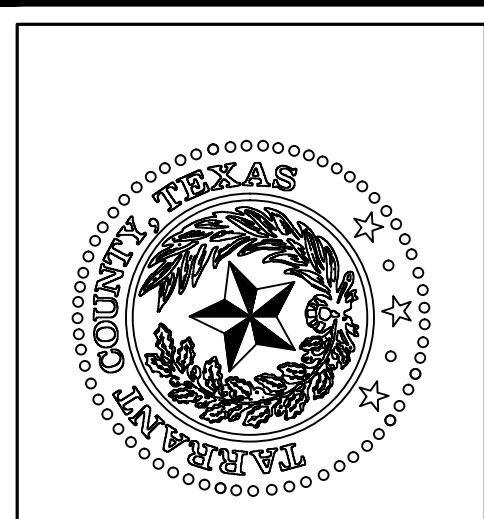
1. WHEN INSTALLING NEW DAMPERS, TAKE CARE TO ADJUST LOCATION OF DAMPER LINKAGES AS REQUIRED SO THAT THEY DO NOT CONFLICT WITH DRAIN LINES FROM FLOOR ABOVE.
2. REMOVE AND REPLACE (E) MOTORIZED DAMPER WITH NEW MOTORIZED DAMPER. REFER TO SHEET M3-1 AND M3-2 FOR ADDITIONAL INFORMATION.
3. REMOVE AND REPLACE (E) CHILLED WATER CONTROL VALVE AT (E) FCU. NEW CONTROL VALVE TO BE PROVIDED BY THE BUILDING AUTOMATION CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR.
4. REMOVE AND REPLACE (E) 2 SECTION F8SD ABOVE CHASE ACCESS DOOR WITH NEW SINGLE SECTION 20"x46" F8SD (N).

SHEET NOTES:

1. CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.
2. REMOVE AND REPLACE EXISTING SECURITY CEMENT PLASTER CEILING AS REQUIRED TO ACCESS DAMPERS. REPLACE EXISTING ACCESS DOOR WITH NEW ACCESS DOOR. MATCH EXISTING SIZE OR INCREASE AS REQUIRED.



BAIRD, HAMPTON & BROWN
 engineering and surveying
 6300 Regatta Place, Suite 700 Fort Worth, TX 76116
 mhb@bhbc.com • 817.338.1277 • bhbc.com
 TPE Firm #44, #1011000, 10011002, #1019446



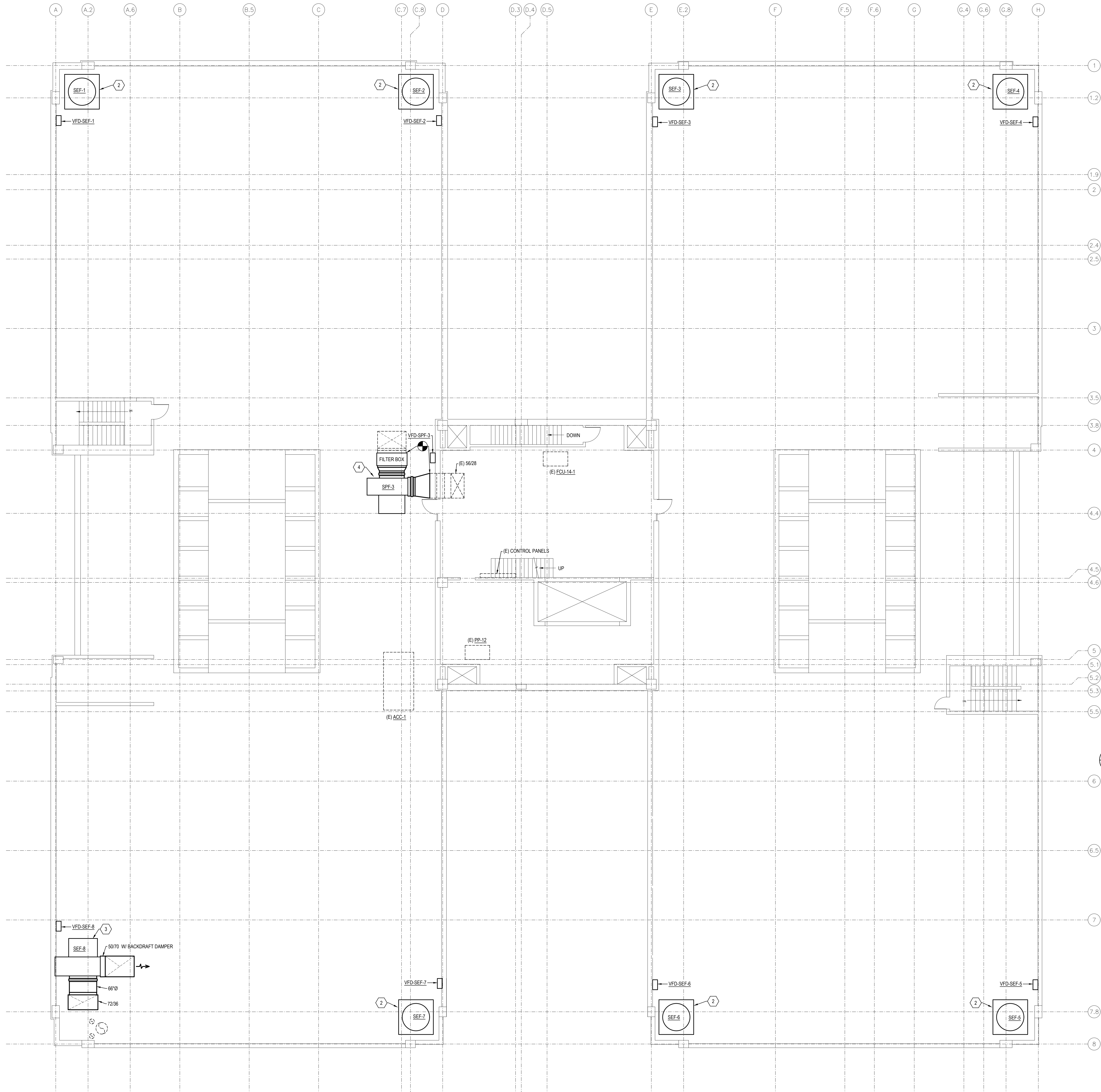
TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT
 100 N LAMAR STREET FORT WORTH, TEXAS 76102

LEVEL 9M, 10M, 11M, 12M, & 13M FLOOR PLAN - MECHANICAL

NO.	DESCRIPTION	DATE

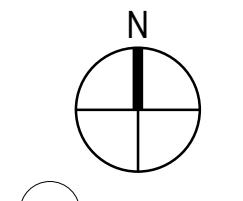
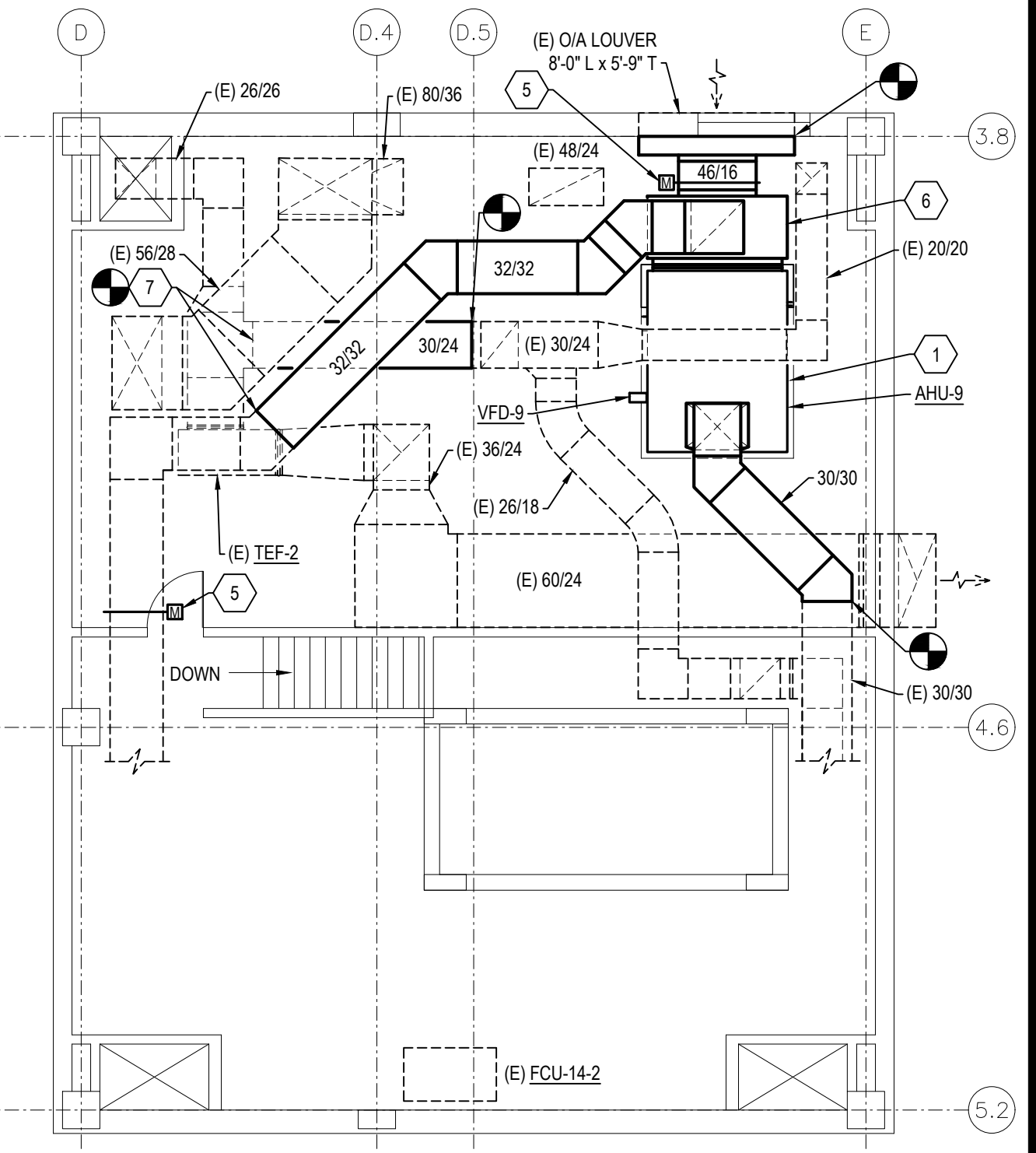
PROJECT NUMBER: 2021.010.042
 DATE: 02/15/2023 DRAWN BY: EMS
 DESIGN BY: LRB / CHECKED BY: LRB
SHEET M1-9
 SHEET 13 OF 26 M SHEETS TOTAL

2/15/2023 8:13AM E:\2021\000\000021\010.dwg - Tarrant County Project\2021\010\042 - Tarrant County AHU Replacement\01 Design & Drafting\05 Mech\M1-10.dwg M1-10



NOTES BY SYMBOL: "4"

1. INSTALL NEW AHU ON (E) CONCRETE PAD ON A CONTINUOUS NEOPRENE VIBRATION ISOLATION PAD UNDER THE FULL LENGTH OF BASE RAILS. ENLARGE (E) CONCRETE PAD AS REQUIRED TO INSTALL NEW AHU. REFER TO DETAIL 77M-1. CONNECT (E) SUPPLY AND (E) RETURN DUCTWORK TO NEW AHU. INSTALL ISOLATION BALL VALVES IN (E) BRANCH PIPING AND ROUTE NEW GAS, CHR, HWS, AND HWB TO NEW AHU. REFER TO DETAILS 4M-1 AND 5M-1. NEW CONTROL VALVES TO BE PROVIDED BY THE BUILDING AUTOMATION CONTRACTOR. INSTALLED BY MECHANICAL CONTRACTOR. ROUTE CONDENSATE DRAIN TO (E) FLOOR DRAIN AND DISCHARGE INDIRECT WITH AN 1" AIR GAP.
2. INSTALL NEW SMOKE PURGE FAN ON (E) CURB. REFER TO SECTION 12M-3.
3. INSTALL NEW SMOKE PURGE FAN ON (E) STEEL BEAMS AND CONNECT (E) DUCTWORK TO NEW FAN. REFER TO SECTION 13M-3.
4. INSTALL NEW STARWELL PRESSURIZATION FAN ON (E) STEEL BEAMS AND CONNECT (E) DUCTWORK TO NEW FAN. REFER TO SECTION 11M-3.
5. REMOVE AND REPLACE (E) MOTORIZED DAMPER WITH NEW MOTORIZED DAMPER. REFER TO SHEET M3-1 AND M3-2 FOR ADDITIONAL INFORMATION.
6. INSTALL NEW RETURN AIR PLENUM BOX WITH 2" A.L. AND CONNECT (E) RETURN AND (E) OA DUCTWORK. REFER TO AHU SECTION ON SHEET 5M-3 FOR ADDITIONAL INFORMATION.
7. CONNECT NEW 3024 EXHAUST DUCTWORK AND 3404 RETURN AIR DUCTWORK TO (E) DUCTWORK AND ROUTE AS INDICATED.

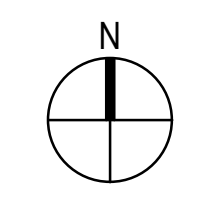
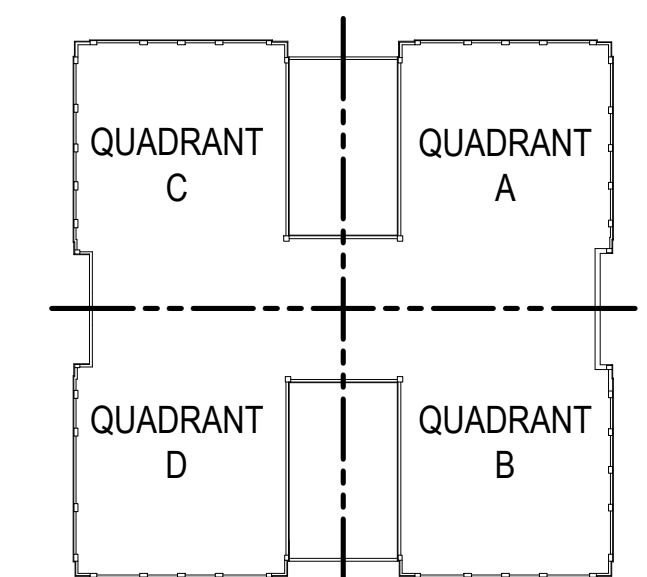


2 PENTHOUSE PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"

SHEET NOTES:

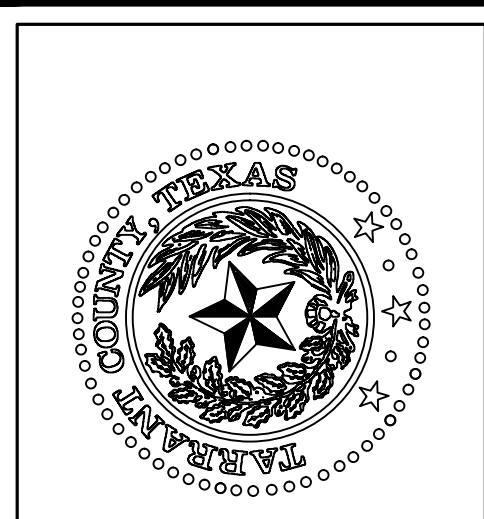
1. CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.

KEY PLAN



1 ROOF PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"

BIB
BAIRD, HAMPTON & BROWN
engineering and surveying
6300 Regatta Place, Suite 700 Fort Worth, TX 76116
me@bhb.com • 817.338.1277 • bhb.com
TPE Firm #44, #1011060, 10011062, #0191468



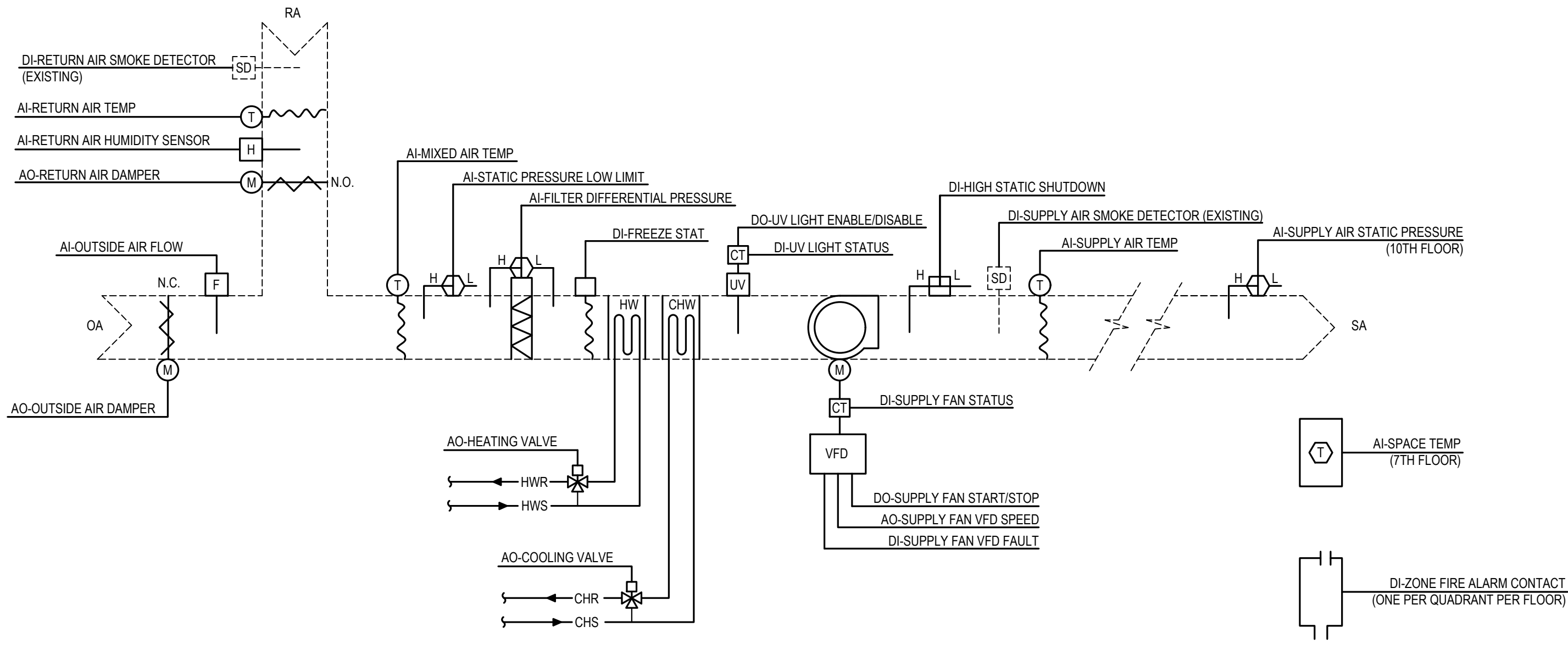
**TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT**

100 N LAMAR STREET FORT WORTH, TEXAS 76102

ROOF & PENTHOUSE PLAN - MECHANICAL		DATE
NO.	DESCRIPTION	

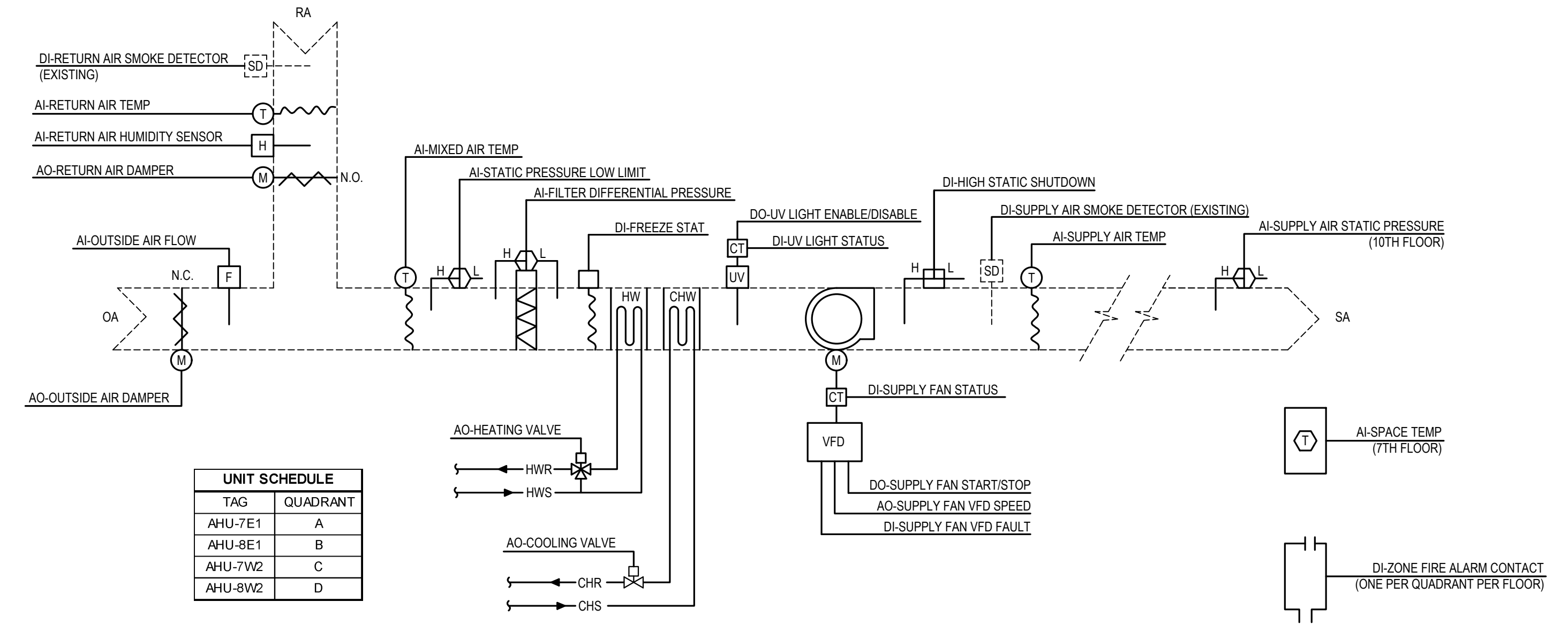
PROFESSIONAL SEAL
STATE OF TEXAS
LESLIE R. BROWN
60171
2/22/23

PROJECT NUMBER: 2021.010.042
DATE: 02/15/2023 DRAWN BY: EMS
DESIGN BY: LRB CHECKED BY: LRB
SHEET
M1-10
SHEET 14 OF 26 M SHEETS TOTAL



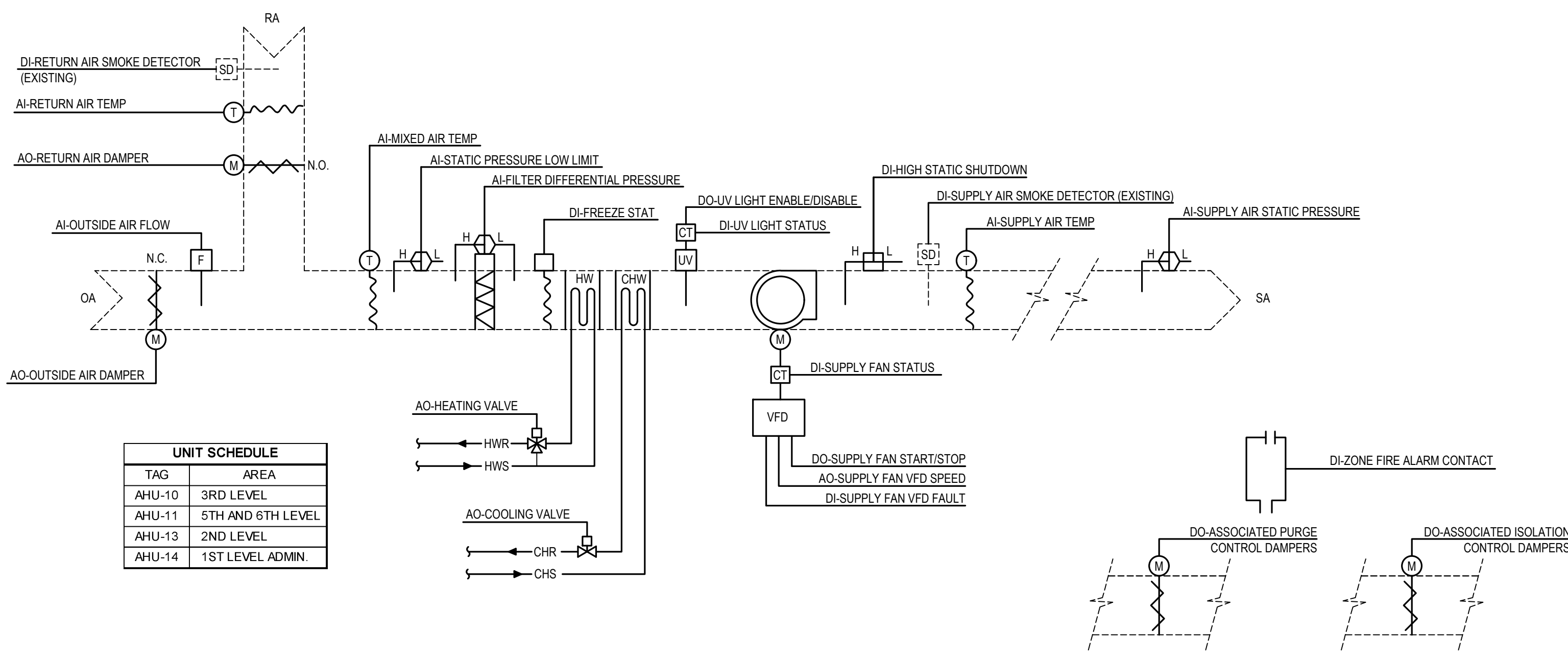
1 AIR HANDLING UNIT CONTROL DIAGRAM - CELL UNITS (AHU-1E THRU 6E, AND 1W THRU 6W)
NOT TO SCALE (TYPICAL FOR 12)

- NOTES:
- CONNECT TO AUXILIARY CONTACT IN EACH EXISTING DUCT MOUNTED SMOKE DETECTOR TO SHUT DOWN UNIT UPON DETECTION OF SMOKE.
 - REMOVE ALL EXISTING UNUSED CONTROLS. INSTALL AIRTIGHT COVER OVER ALL OPENINGS IN DUCTWORK WHERE CONTROL DEVICES HAVE BEEN REMOVED.



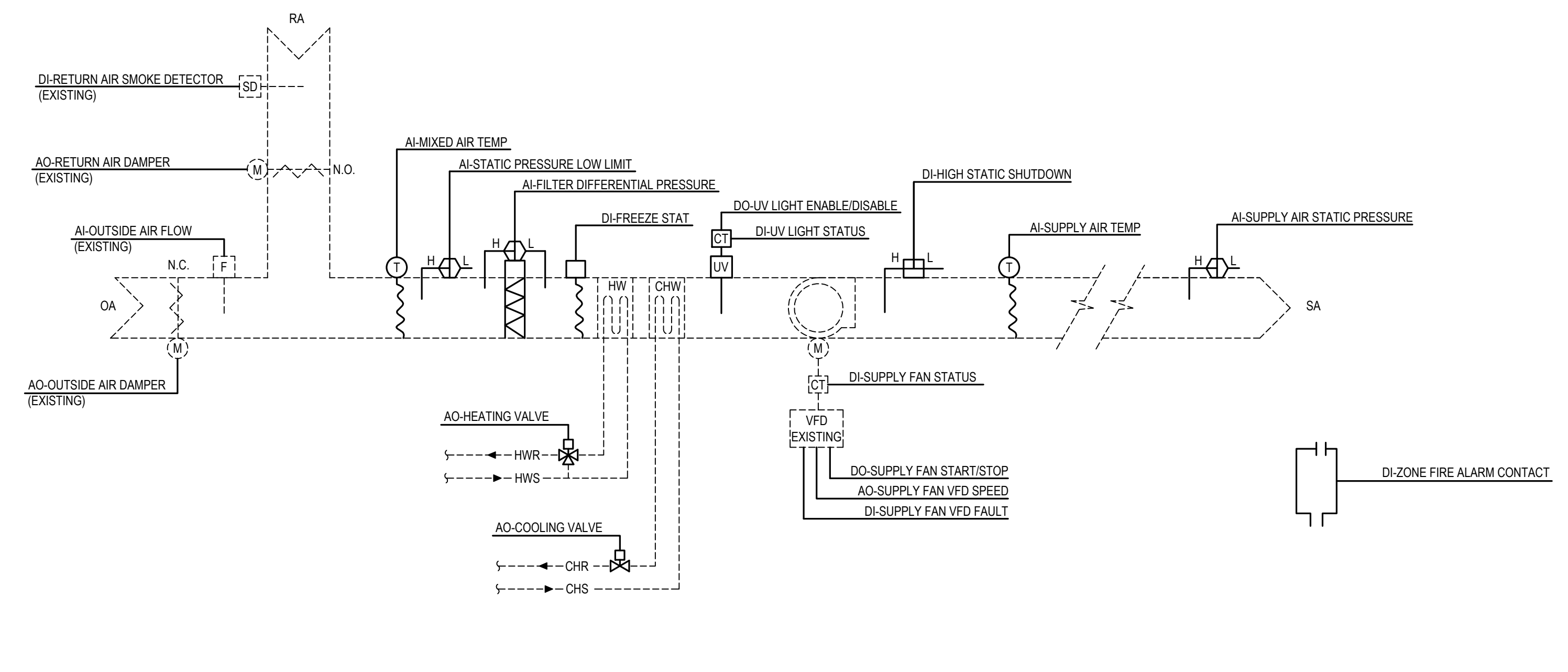
2 AIR HANDLING UNIT CONTROL DIAGRAM - DAY ROOM UNITS (AHU-7E1, 8E1, 7W2, 8W2)
NOT TO SCALE (TYPICAL FOR 4)

- NOTES:
- CONNECT TO AUXILIARY CONTACT IN EACH EXISTING DUCT MOUNTED SMOKE DETECTOR TO SHUT DOWN UNIT UPON DETECTION OF SMOKE.
 - REMOVE ALL EXISTING UNUSED CONTROLS. INSTALL AIRTIGHT COVER OVER ALL OPENINGS IN DUCTWORK WHERE CONTROL DEVICES HAVE BEEN REMOVED.



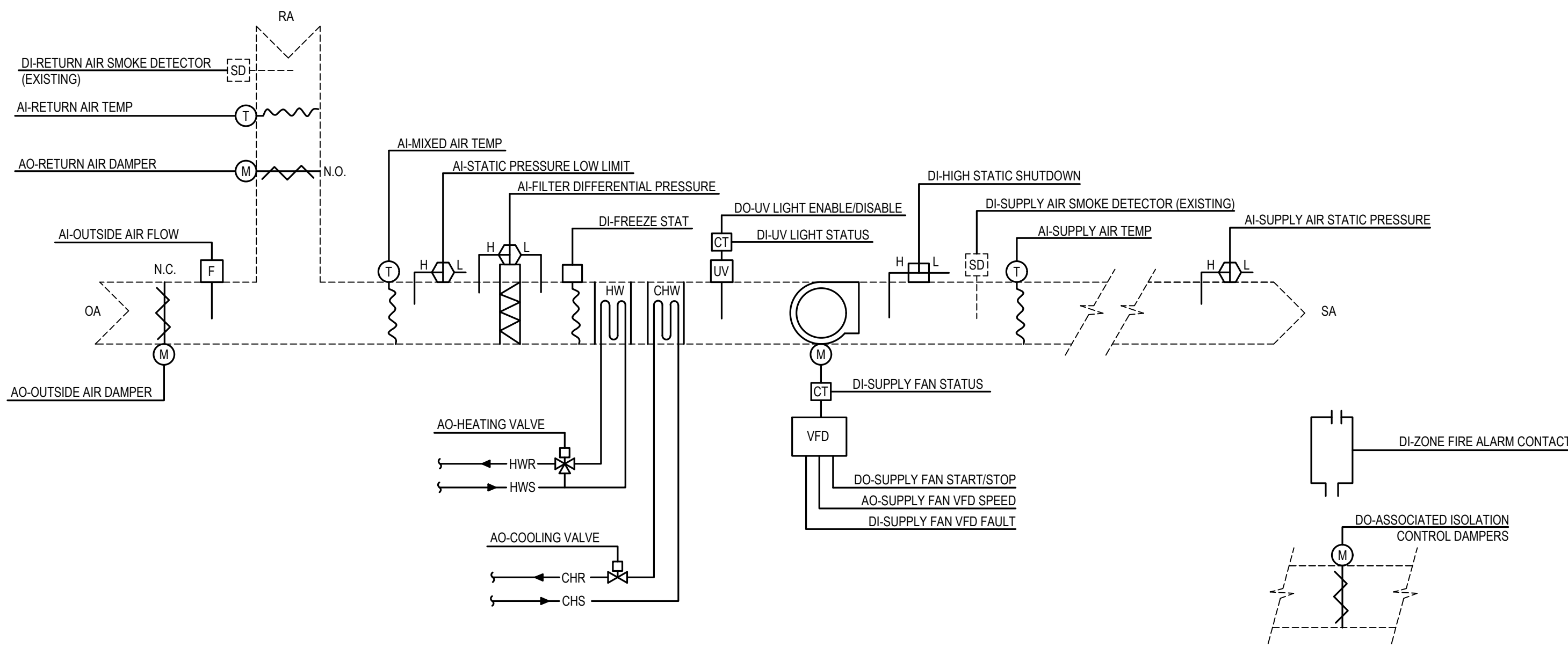
3 AIR HANDLING UNIT CONTROL DIAGRAM (AHU-10, 11, 13, 14)
NOT TO SCALE (TYPICAL FOR 4)

- NOTES:
- CONNECT TO AUXILIARY CONTACT IN EACH EXISTING DUCT MOUNTED SMOKE DETECTOR TO SHUT DOWN UNIT UPON DETECTION OF SMOKE.
 - REMOVE ALL EXISTING UNUSED CONTROLS. INSTALL AIRTIGHT COVER OVER ALL OPENINGS IN DUCTWORK WHERE CONTROL DEVICES HAVE BEEN REMOVED.



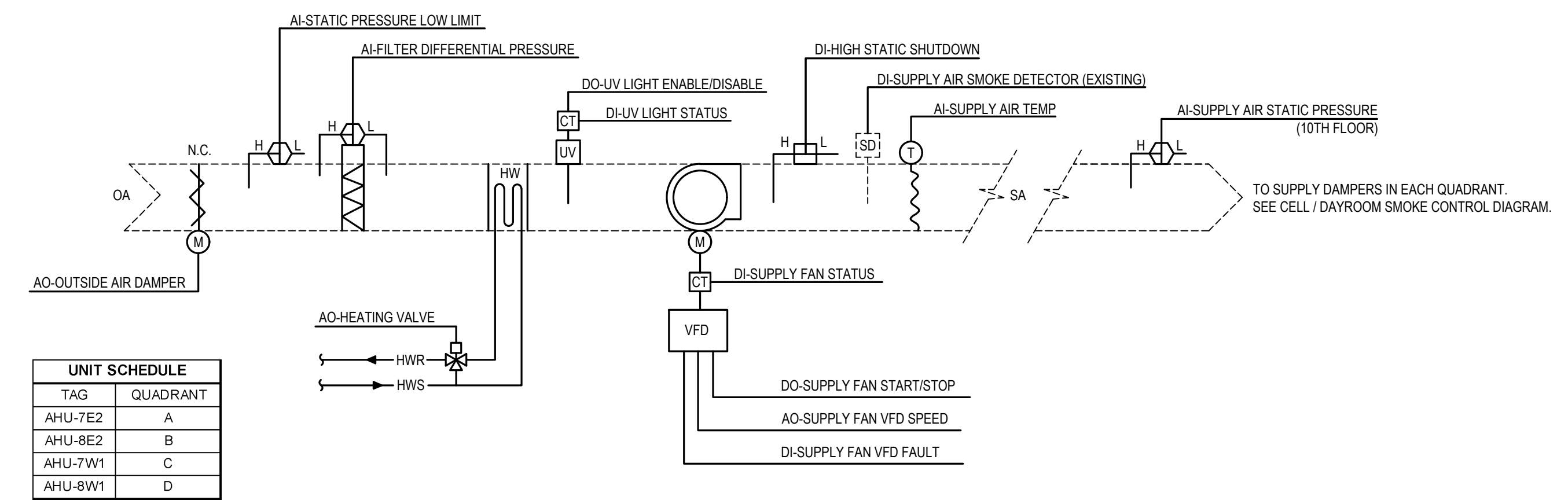
4 EXISTING AIR HANDLING UNIT CONTROL DIAGRAM (AHU-12)
NOT TO SCALE

- NOTES:
- CONNECT TO AUXILIARY CONTACT IN EACH EXISTING DUCT MOUNTED SMOKE DETECTOR TO SHUT DOWN UNIT UPON DETECTION OF SMOKE.
 - REMOVE ALL EXISTING UNUSED CONTROLS. INSTALL AIRTIGHT COVER OVER ALL OPENINGS IN DUCTWORK WHERE CONTROL DEVICES HAVE BEEN REMOVED.



5 AIR HANDLING UNIT CONTROL DIAGRAM - ELEVATOR LOBBIES (AHU-9)
NOT TO SCALE

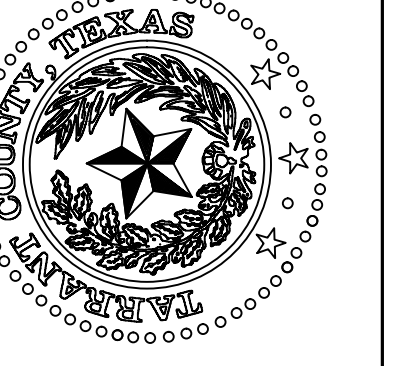
- NOTES:
- SOME VAV BOXES ON LEVELS 7 THROUGH 13 ARE SERVED BY THIS UNIT.
 - CONNECT TO AUXILIARY CONTACT IN EACH EXISTING DUCT MOUNTED SMOKE DETECTOR TO SHUT DOWN UNIT UPON DETECTION OF SMOKE.
 - REMOVE ALL EXISTING UNUSED CONTROLS. INSTALL AIRTIGHT COVER OVER ALL OPENINGS IN DUCTWORK WHERE CONTROL DEVICES HAVE BEEN REMOVED.



6 AIR HANDLING UNIT CONTROL DIAGRAM - SMOKE REMOVAL UNITS (AHU-7E2, 8E2, 7W1, 8W1)
NOT TO SCALE (TYPICAL FOR 4)

- NOTES:
- CONNECT TO AUXILIARY CONTACT IN EACH EXISTING DUCT MOUNTED SMOKE DETECTOR TO SHUT DOWN UNIT UPON DETECTION OF SMOKE.
 - REMOVE ALL EXISTING UNUSED CONTROLS. INSTALL AIRTIGHT COVER OVER ALL OPENINGS IN DUCTWORK WHERE CONTROL DEVICES HAVE BEEN REMOVED.

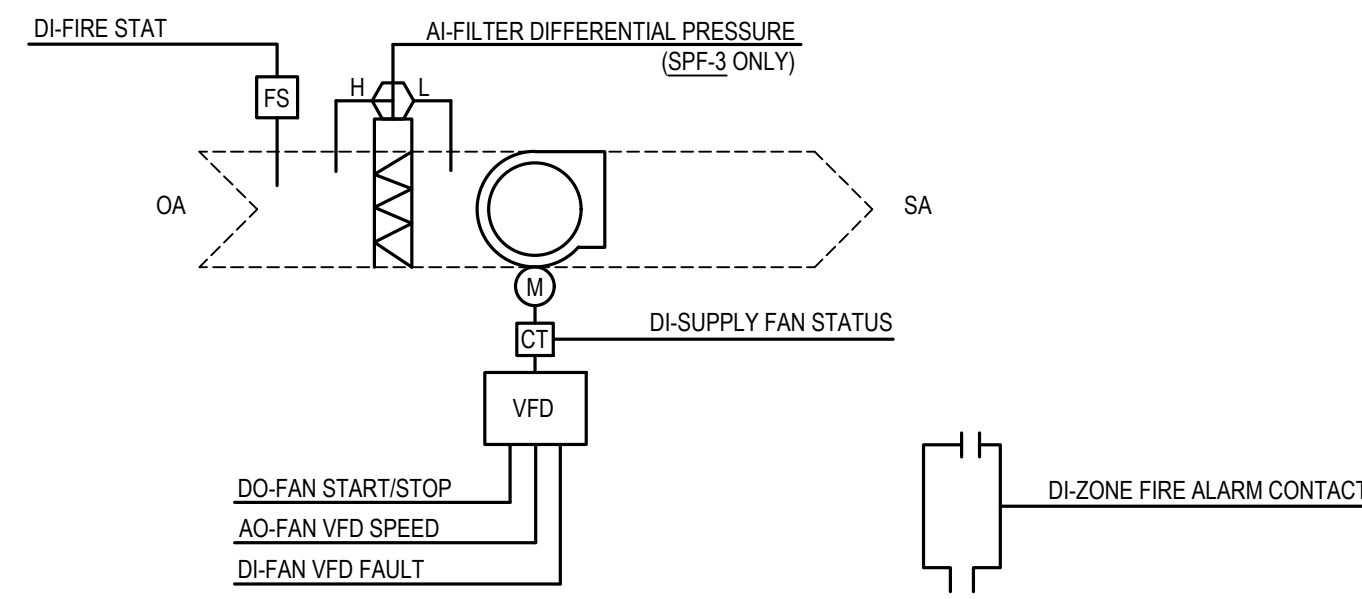
2/15/2023 8:17AM E:\2021\000\000021\010\042 - Tarr Co. Cur. Gr. AHU Replacement\01 Design & Drafting\05 Mech\A2-M2-5.dwg M2-1



CONTROL DIAGRAMS
(NIC - FOR REFERENCE ONLY)

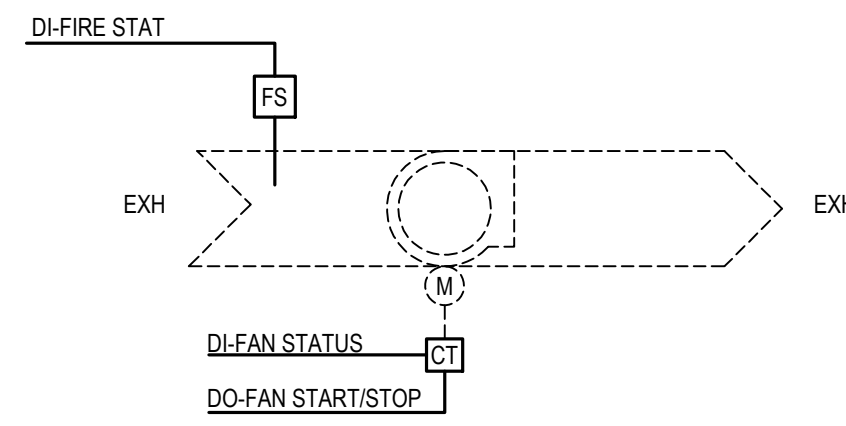
NO.	DESCRIPTION	DATE





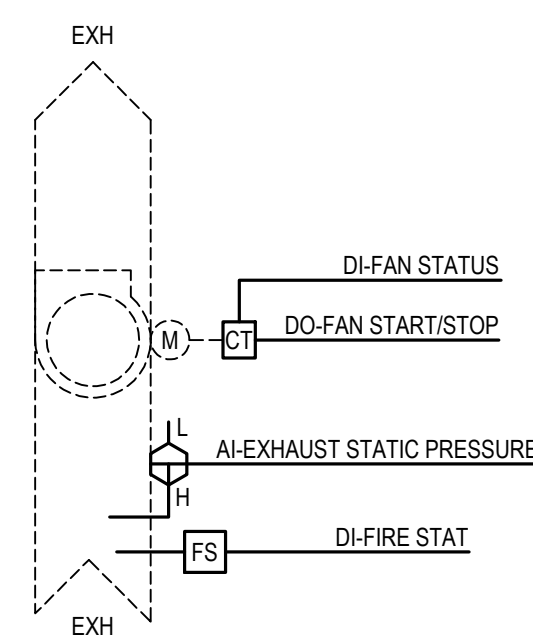
NOTES:
1. APPLIES TO SPF-1, SPF-2, AND SPF-3.

1 STAIRWELL PRESSURIZATION FAN CONTROL DIAGRAM
NOT TO SCALE (TYPICAL FOR 3)

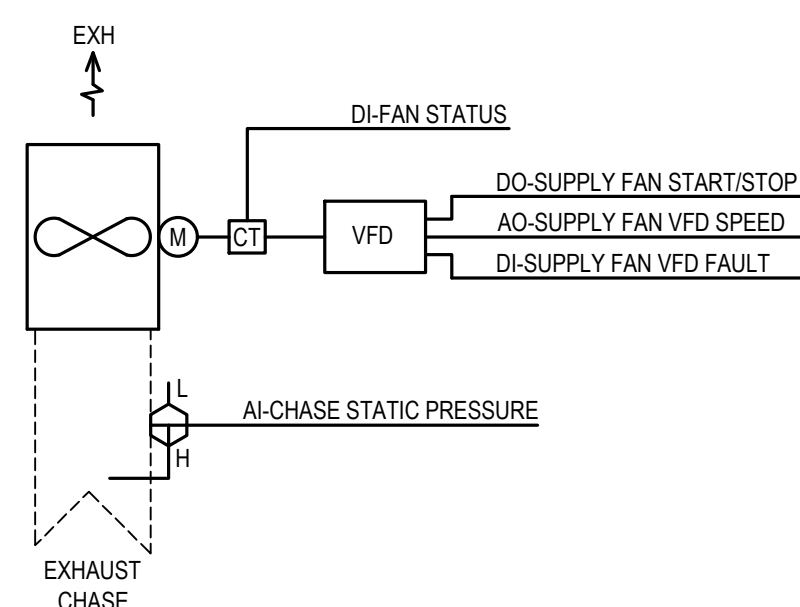


NOTES:
1. APPLIES TO BSE-1, TDE-1, VS-1, VSS-1, MEF-1, AND EF-HC.

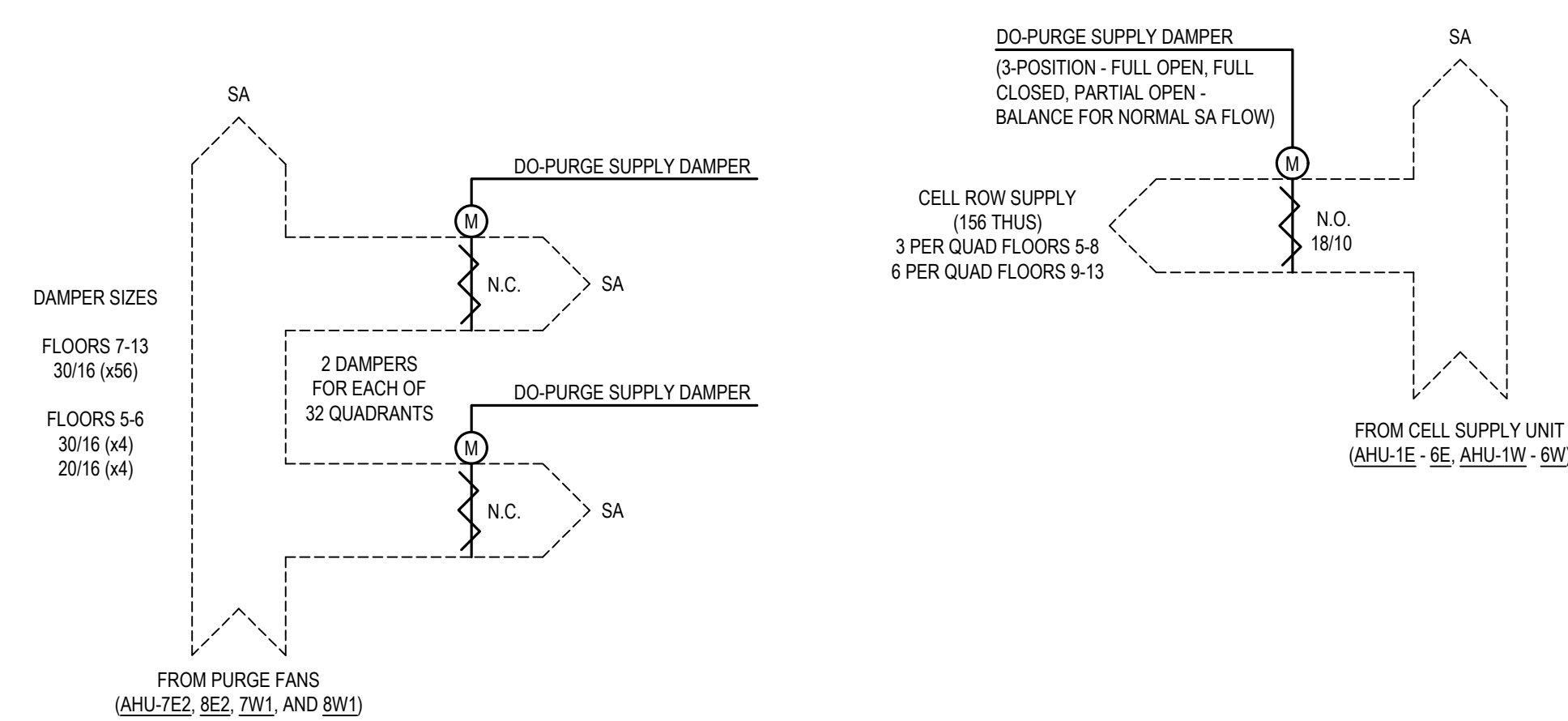
4 EXHAUST FAN CONTROL DIAGRAM
NOT TO SCALE (TYPICAL FOR 6)



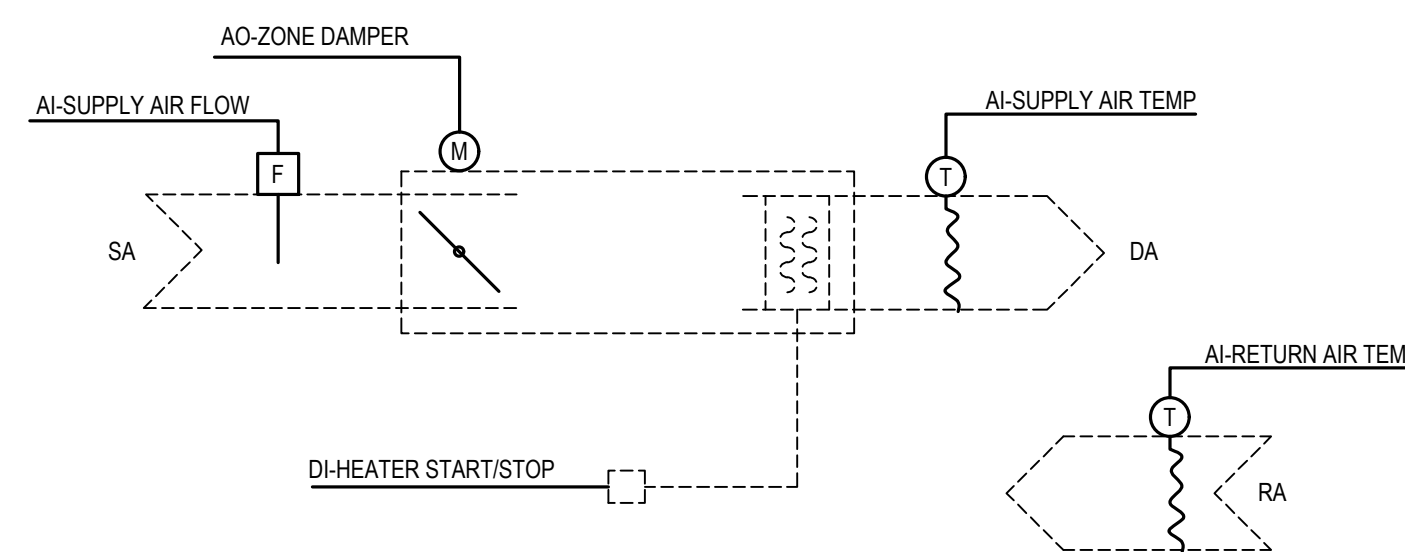
7 TOILET EXHAUST FAN CONTROL DIAGRAM
NOT TO SCALE (TYPICAL FOR 2)



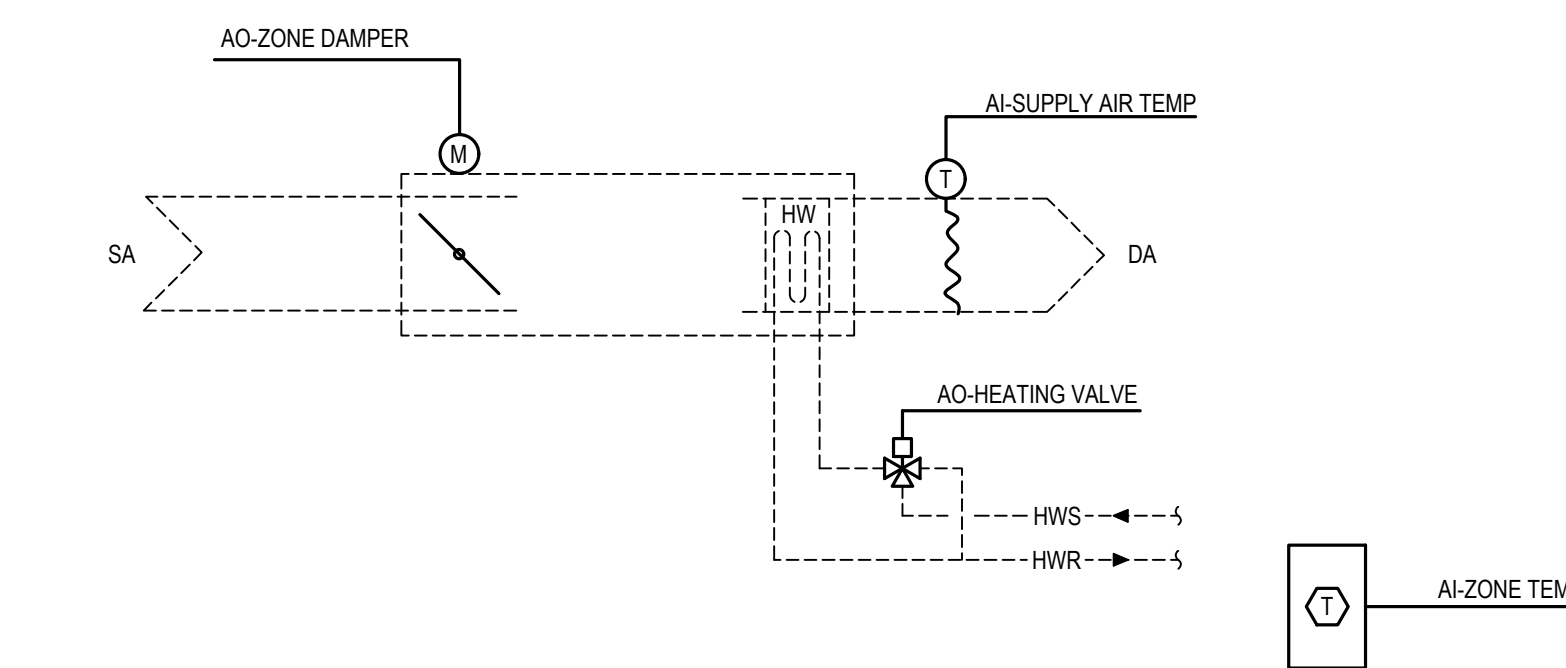
10 SMOKE EXHAUST FAN CONTROL DIAGRAM
NOT TO SCALE (TYPICAL FOR 8)



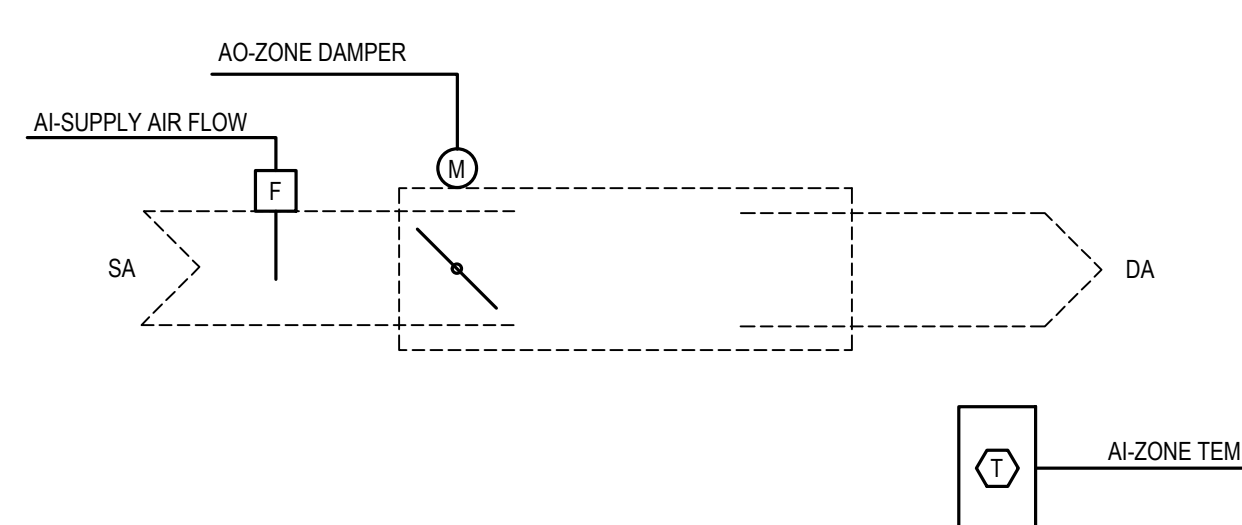
13 CELL / DAYROOM SMOKE CONTROL DIAGRAM
NOT TO SCALE (EVACUATION AND PRESSURIZATION)



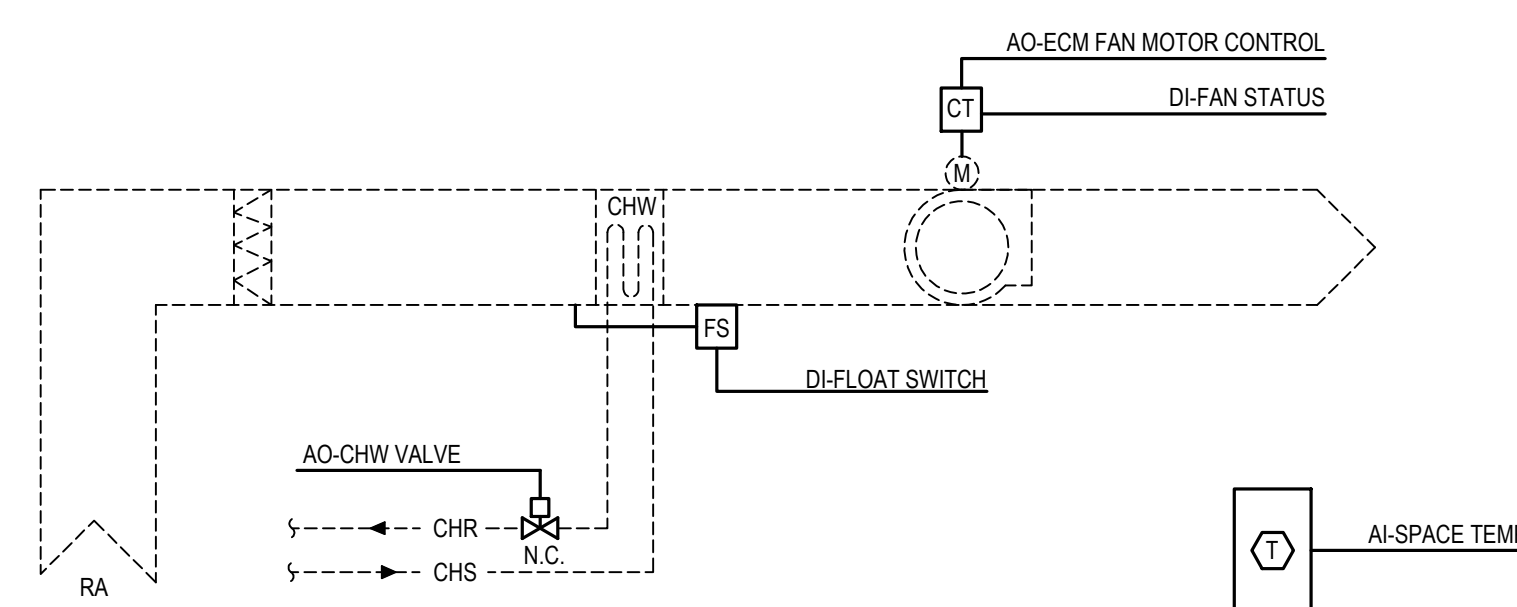
2 SINGLE DUCT VAV BOX WITH ELECTRIC HEAT - (E)AHU-12
NOT TO SCALE (TYPICAL FOR 7)



5 SINGLE DUCT VAV BOX WITH HYDRONIC HEATING COIL
NOT TO SCALE (TYPICAL FOR 19)

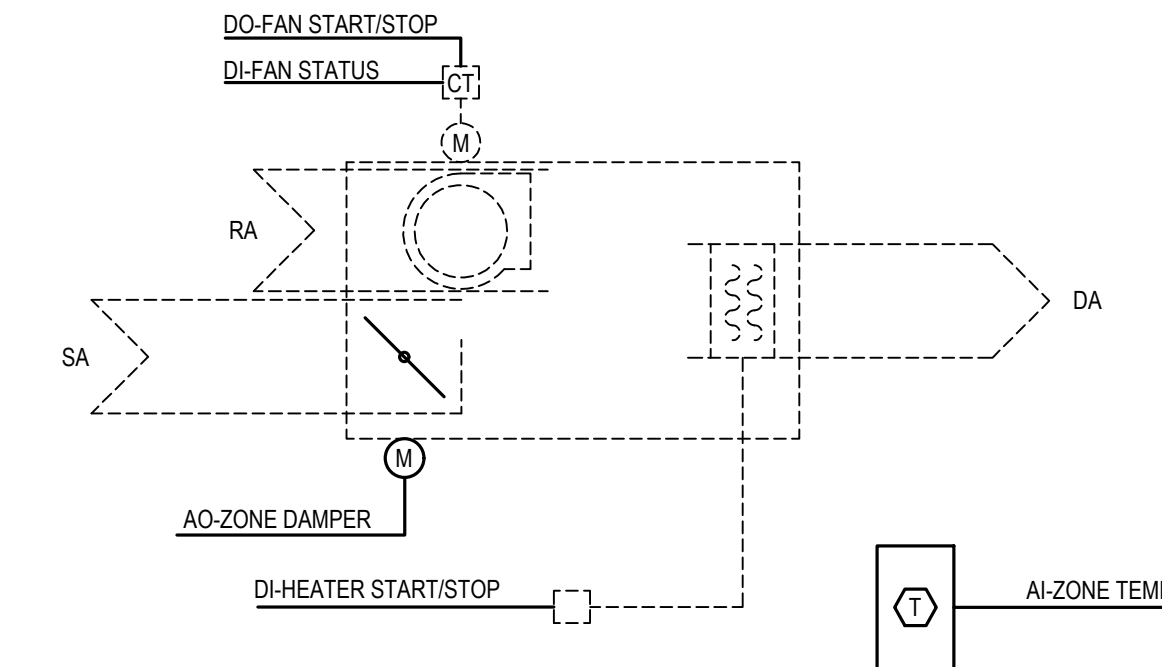
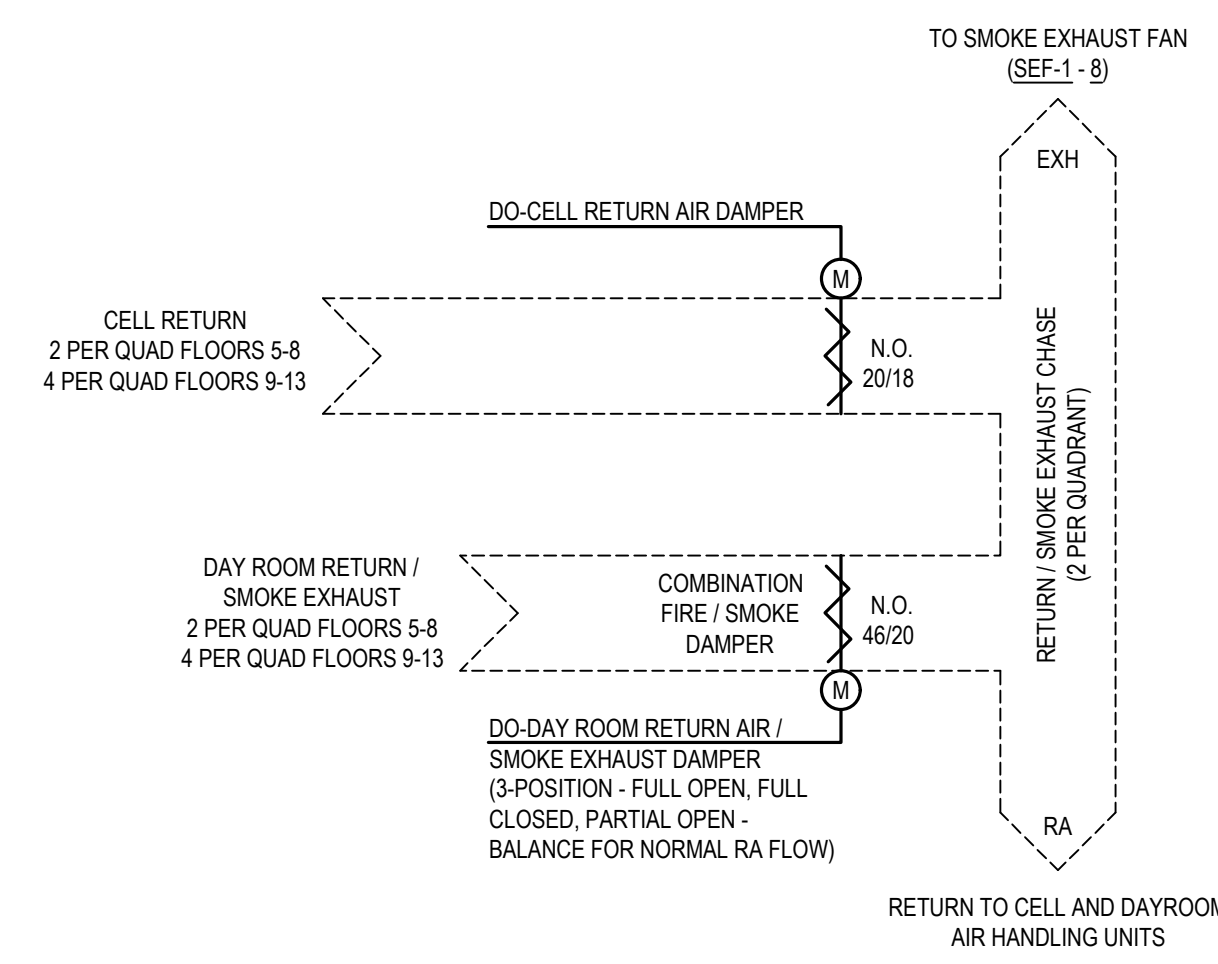


8 SINGLE DUCT VAV BOX - COOLING ONLY
NOT TO SCALE (TYPICAL FOR 66)

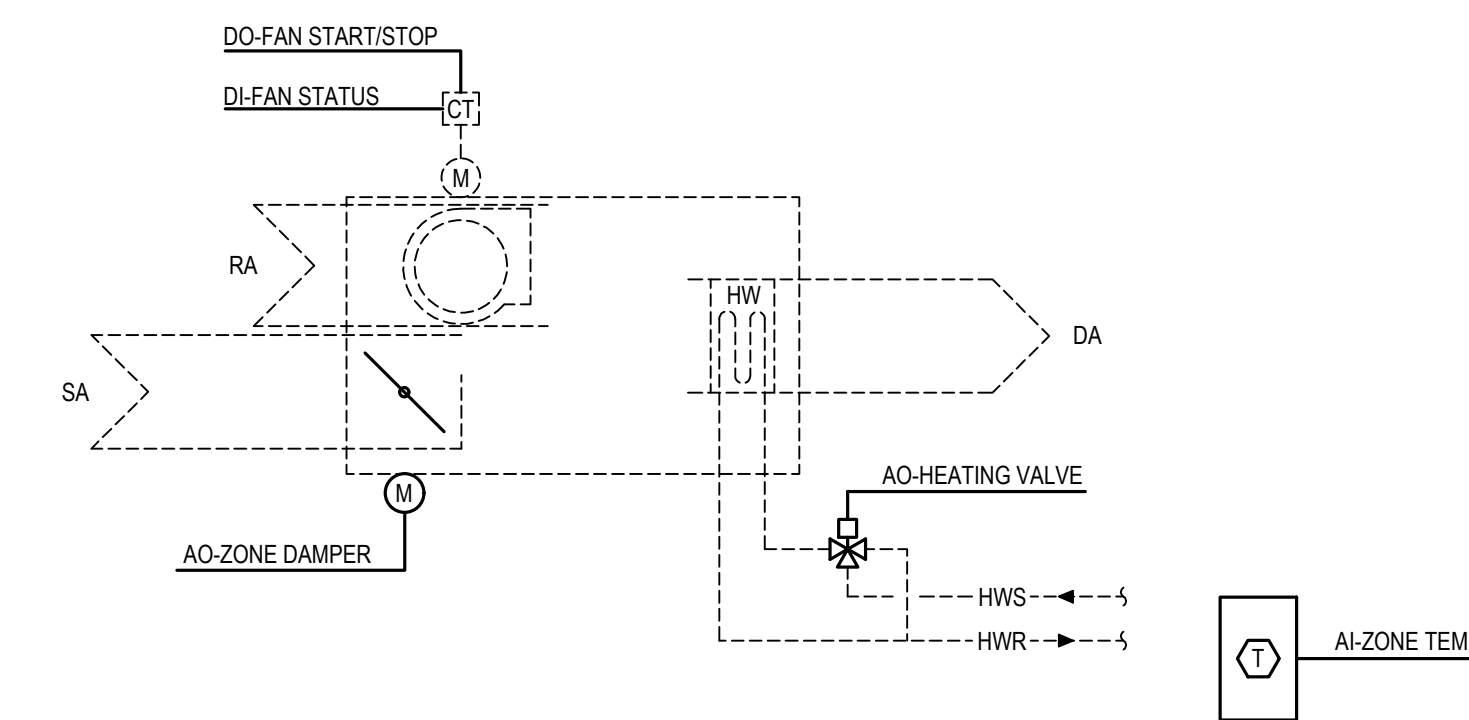


NOTES:
1. APPLIES TO FCU-7-1, FCU-8-1, FCU-9-1, FCU-10-1, FCU-11-1, FCU-12-1, AND FCU-13-1.

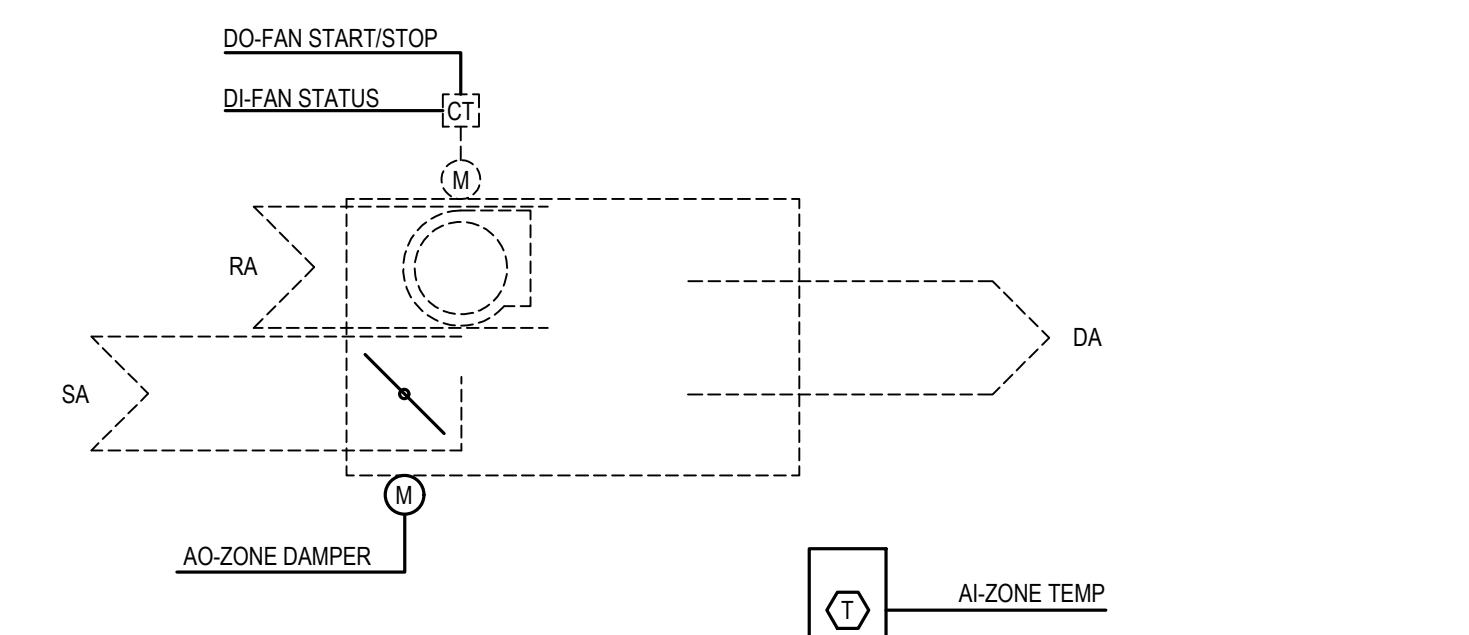
11 FAN COIL UNIT CONTROL DIAGRAM (ECM MOTOR)
NOT TO SCALE (TYPICAL FOR 7)



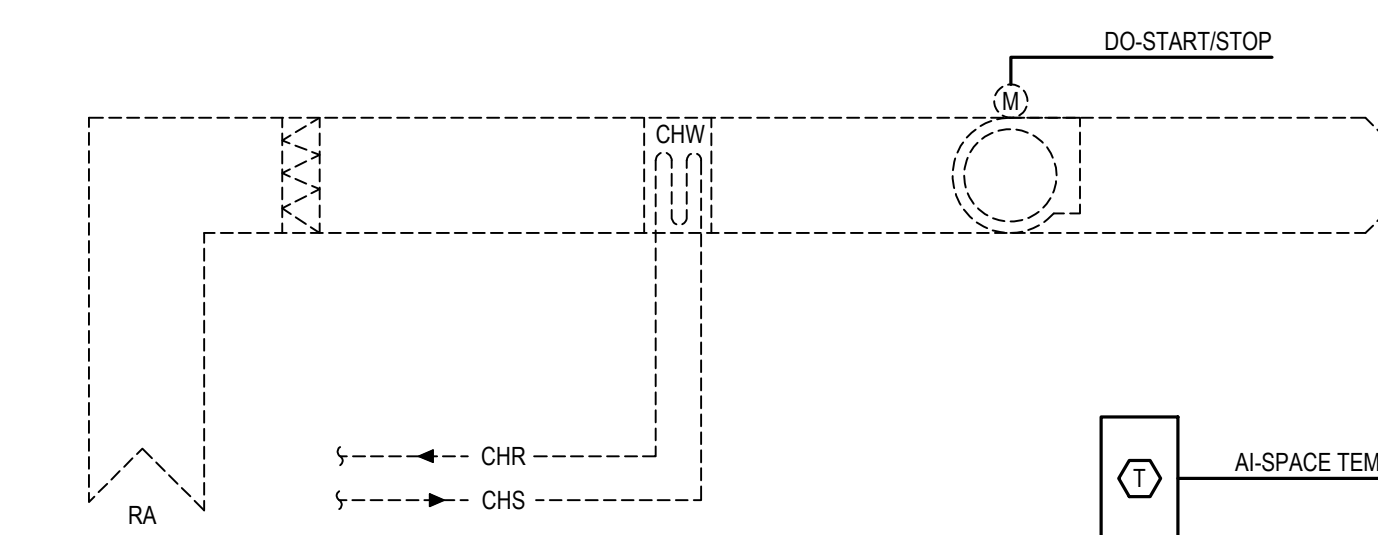
3 PARALLEL FAN POWERED VAV BOX WITH ELECTRIC HEAT - (E)AHU-12
NOT TO SCALE (TYPICAL FOR 3)



6 PARALLEL FAN POWERED VAV BOX WITH HYDRONIC HEATING COIL
NOT TO SCALE (TYPICAL FOR 39)

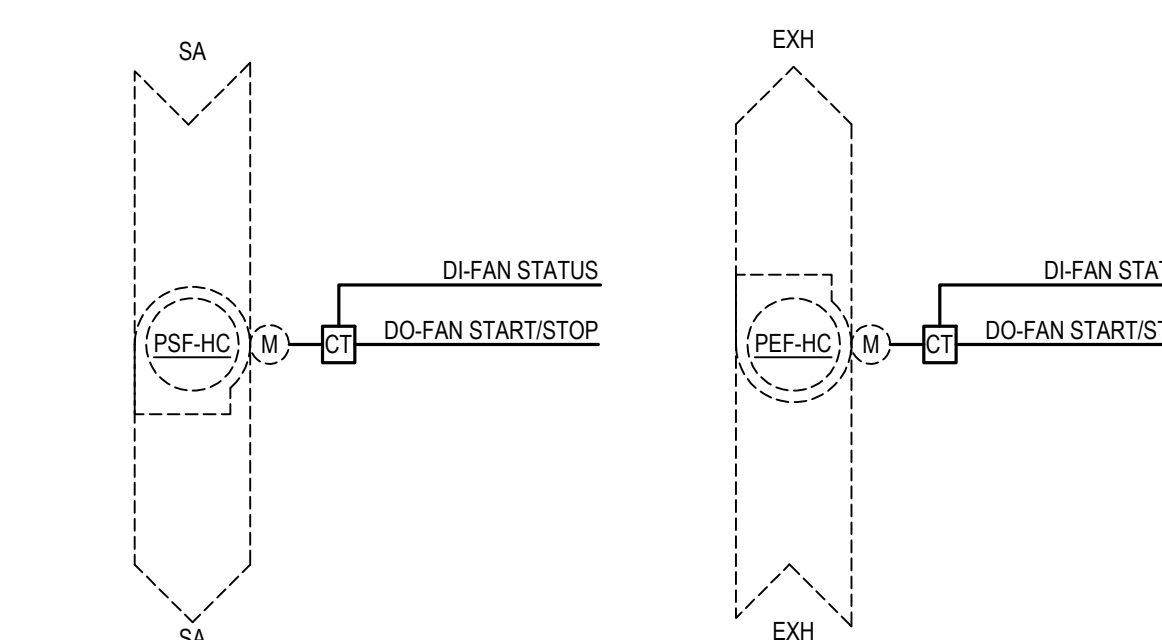


9 PARALLEL FAN POWERED VAV BOX - COOLING ONLY (AHU-14)
NOT TO SCALE (TYPICAL FOR 1)

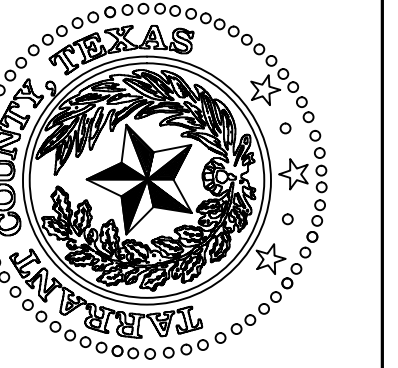


NOTES:
1. APPLIES TO FCU-4-1, FCU-5-1, FCU-6-1, FCU-7-2, FCU-8-2, FCU-10-2, FCU-11-2, FCU-12-2, FCU-13-2, FCU-14-2, AND FCU-15-2.

12 FAN COIL UNIT CONTROL DIAGRAM
NOT TO SCALE (TYPICAL FOR 11)



14 HOLDING CELL SMOKE PURGE CONTROL DIAGRAM
NOT TO SCALE

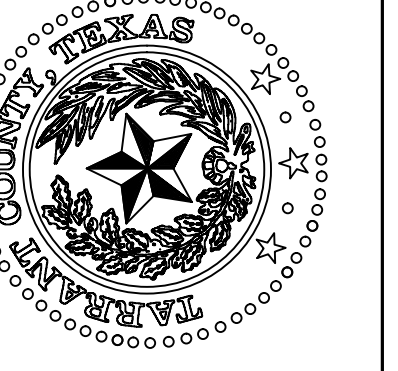


CONTROL DIAGRAMS
(NIC - FOR REFERENCE ONLY)

NO.	DESCRIPTION	DATE

PROJECT NUMBER: 2021.010.042
DATE: 02/15/2023 DRAWN BY: EMS
DESIGN BY: LRB CHECKED BY: LRB

SHEET
M2-2
SHEET 16 OF 26 M SHEETS TOTAL



TARRANT COUNTY CORRECTIONS CENTER
 AHU REPLACEMENT PROJECT

100 N LAMAR STREET FORT WORTH, TEXAS 76102

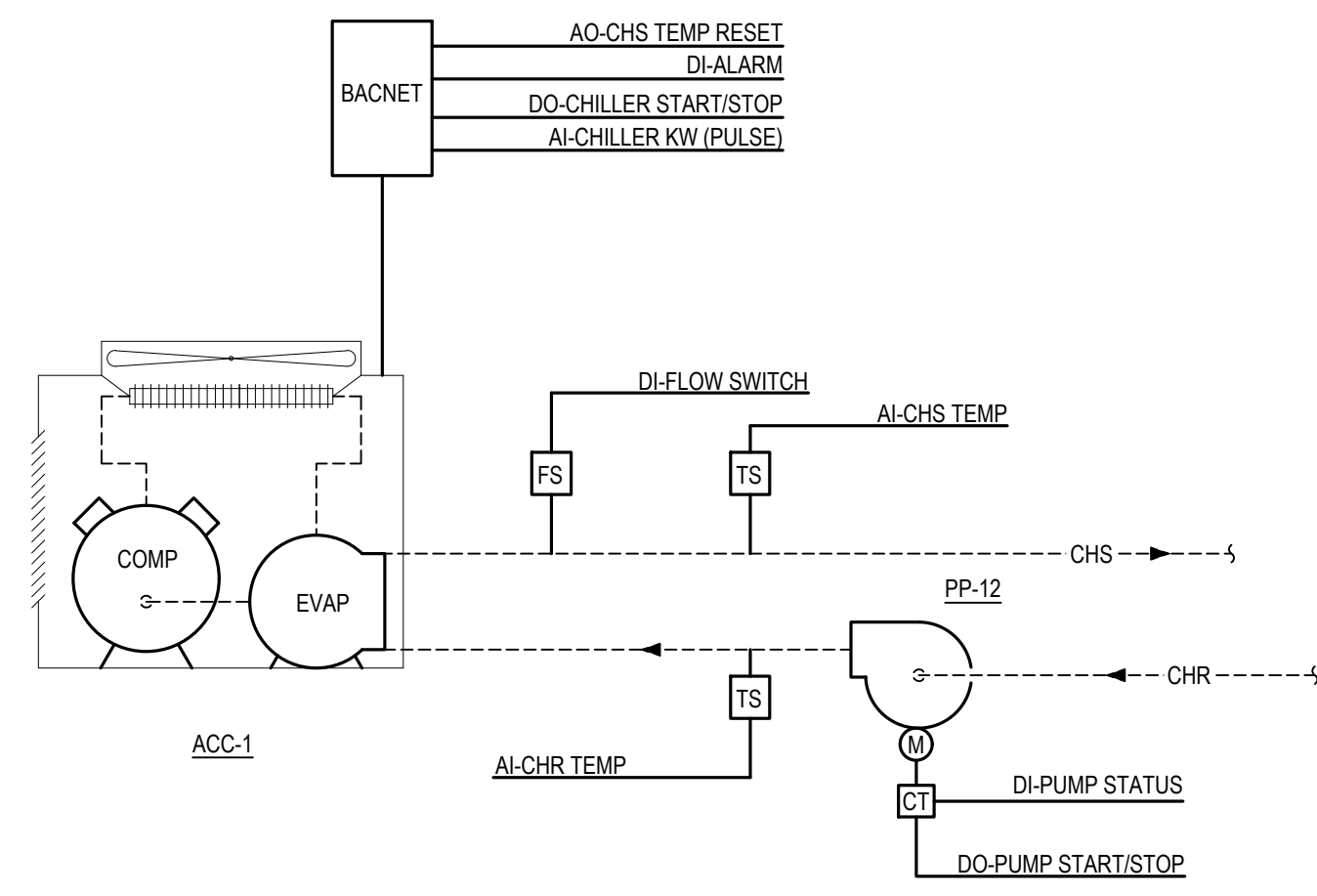
CONTROL DIAGRAMS
 (NIC - FOR REFERENCE ONLY)

NO.	DESCRIPTION	DATE

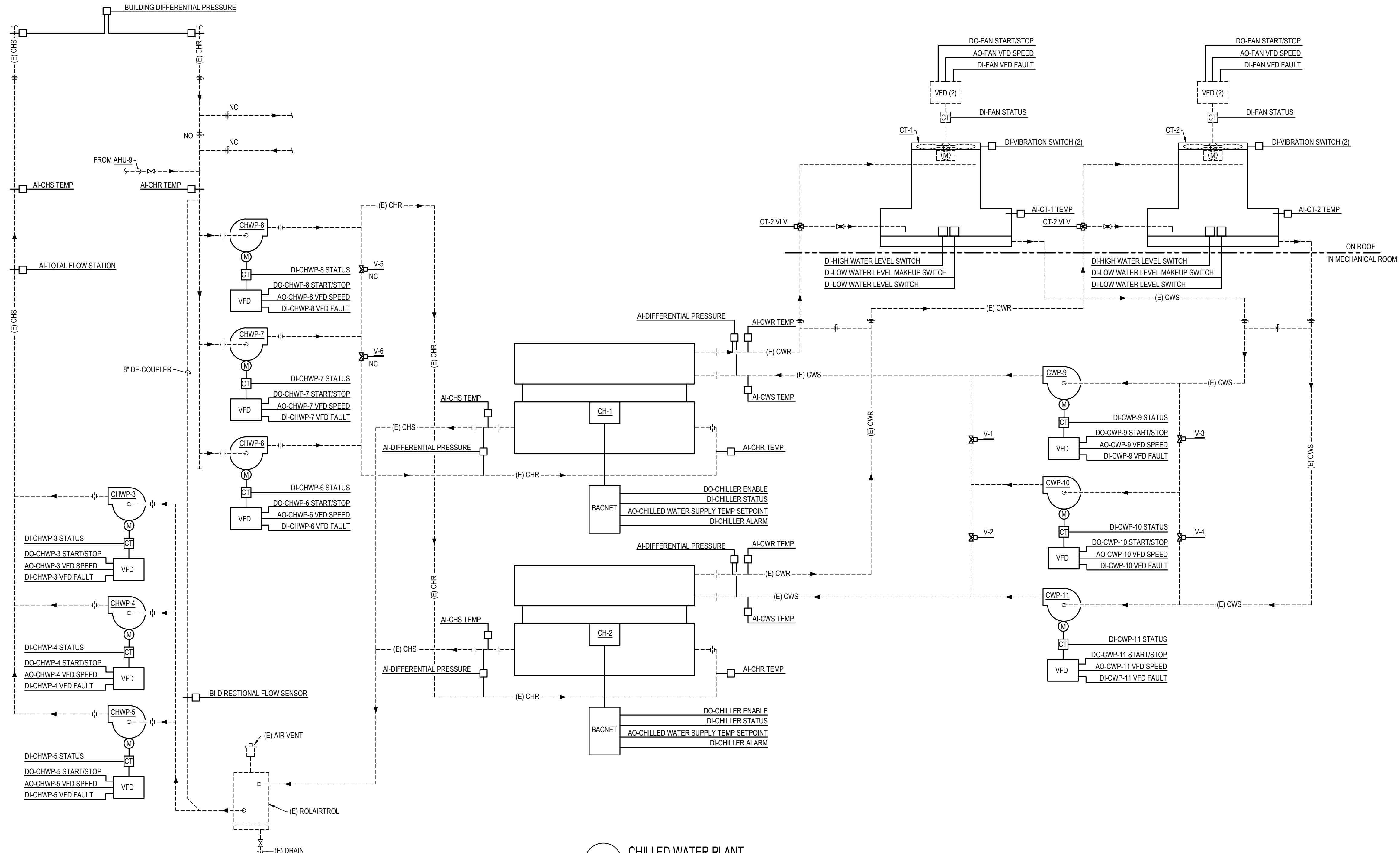


PROJECT NUMBER: 2021.010.042
 DATE: 02/15/2023 DRAWN BY: EMS
 DESIGN BY: LRB | CHECKED BY: LRB

SHEET
M2-3
 SHEET 17 OF 26 M SHEETS TOTAL

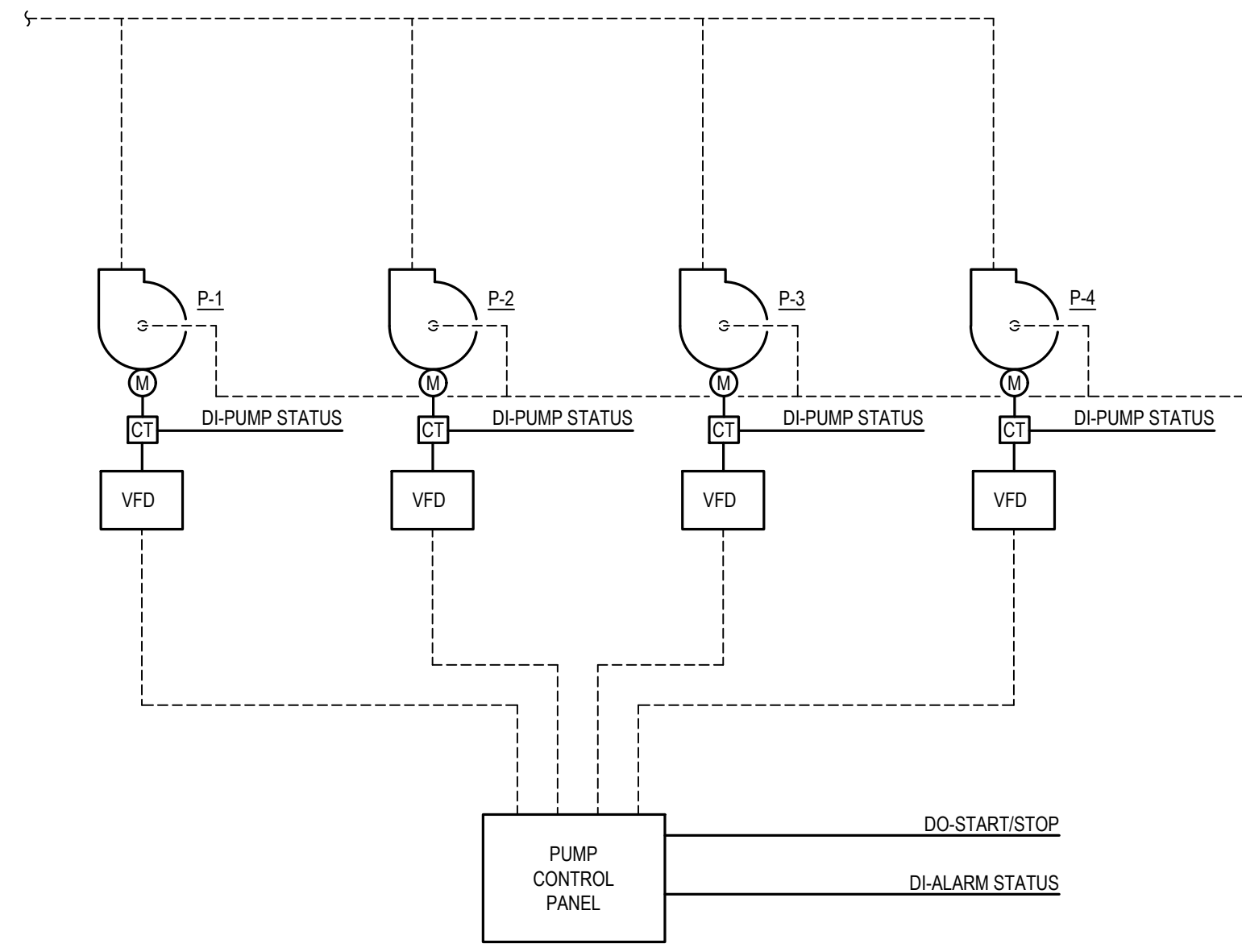


1 AIR COOLED CHILLER SYSTEM
 NOT TO SCALE

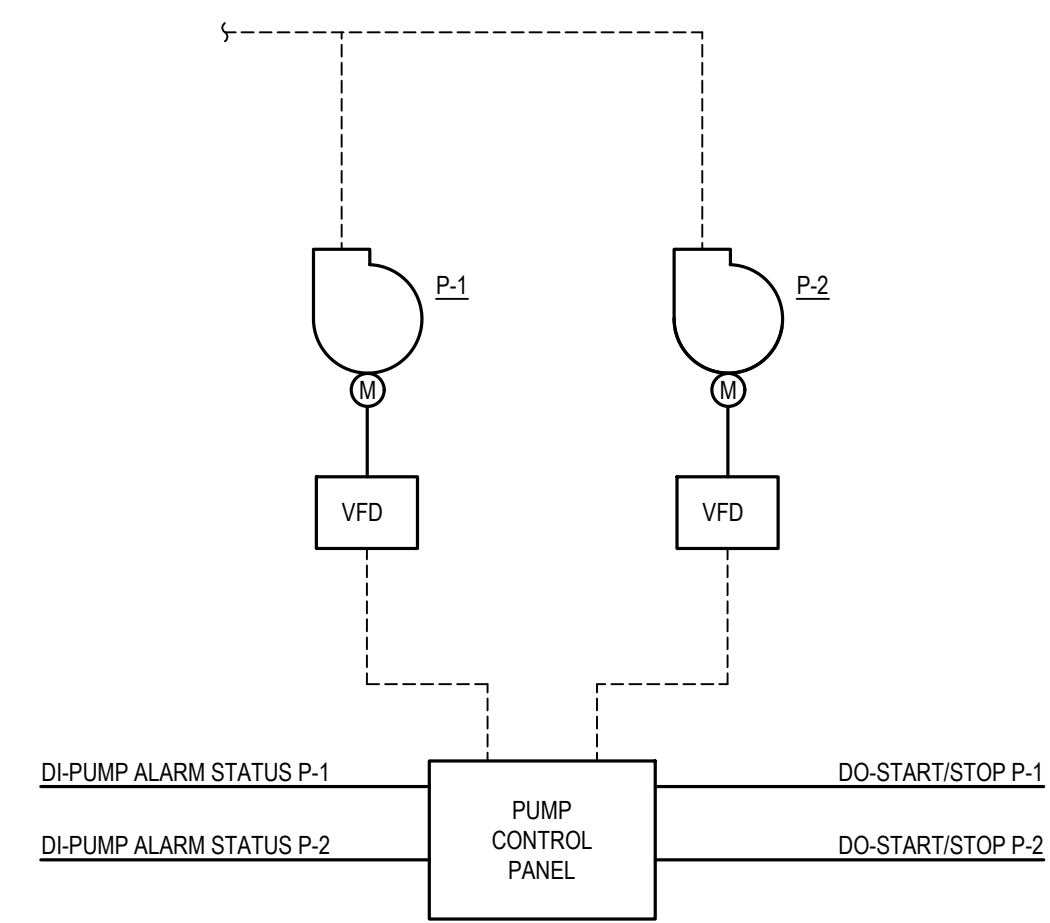


2 CHILLED WATER PLANT
 NOT TO SCALE

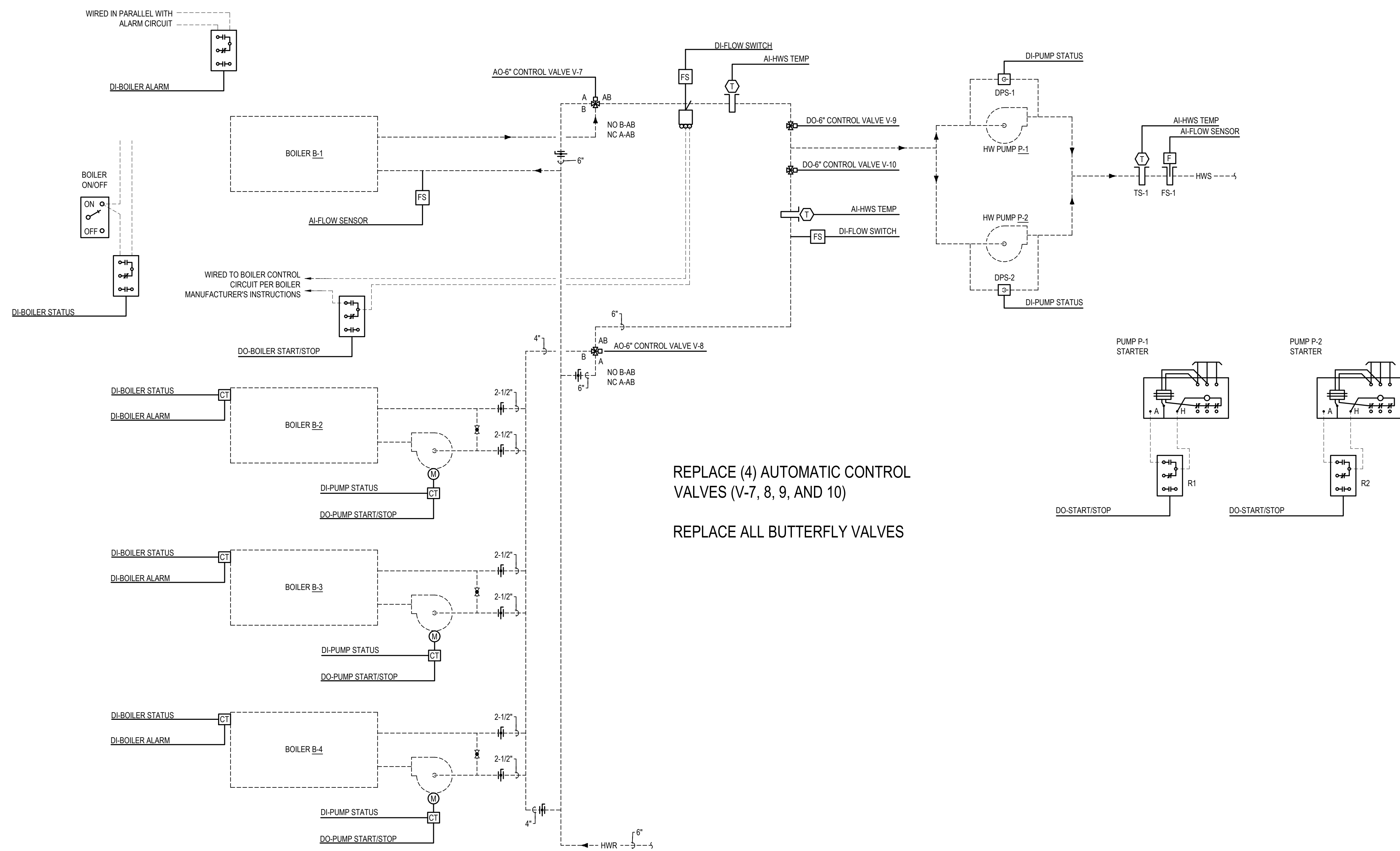
2/15/2023 8:18AM E:\2021\000\00002021\010\aux - Tarrant County Projects\2021\010\042 - Tarrant County Corrections Center AHU Replacement\01 Design & Drafting\05 Mechanical\Mech\A2-M2-3.dwg M2-3



1 DOMESTIC WATER BOOSTER PUMPS
NOT TO SCALE



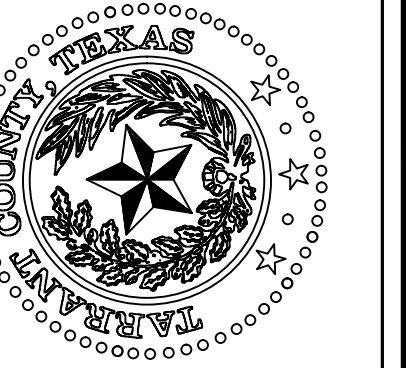
2 DOMESTIC HOT WATER RETURN PUMPS
NOT TO SCALE



REPLACE (4) AUTOMATIC CONTROL VALVES (V-7, 8, 9, AND 10)

REPLACE ALL BUTTERFLY VALVES

3 HEATING WATER SYSTEM
NOT TO SCALE

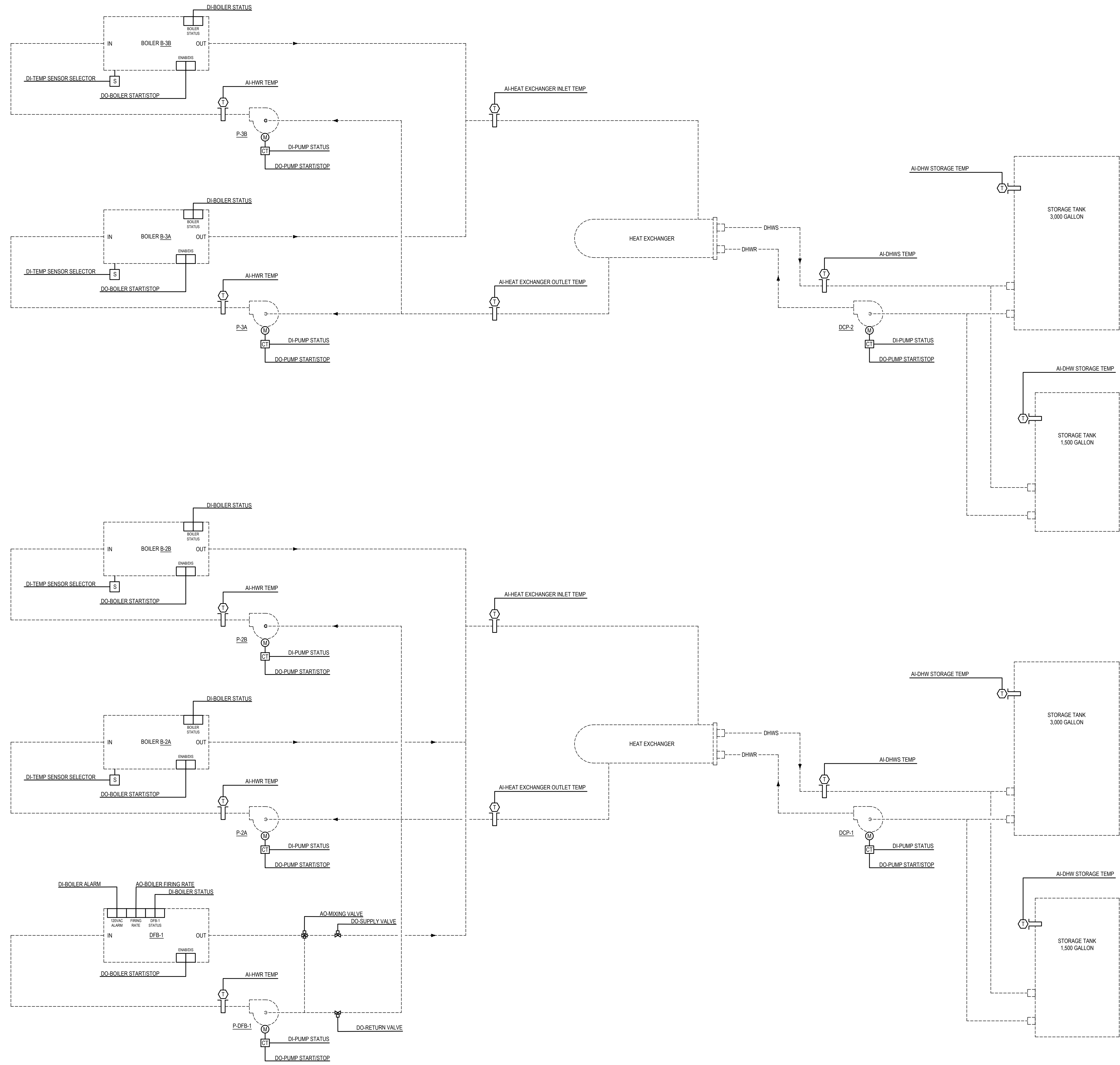


CONTROL DIAGRAMS
(NIC - FOR REFERENCE ONLY)

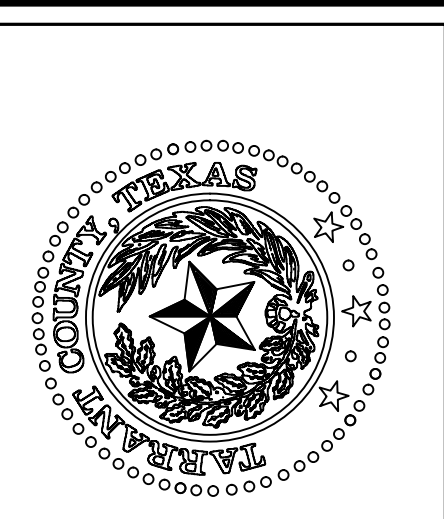
NO.	DESCRIPTION	DATE



2/15/2023 8:18AM E:\2021\000\000\021\010\042 - Tarr County Cor. AHU Replacement\01 Design & Drafting\05 Mech\M2-5.dwg M2-5



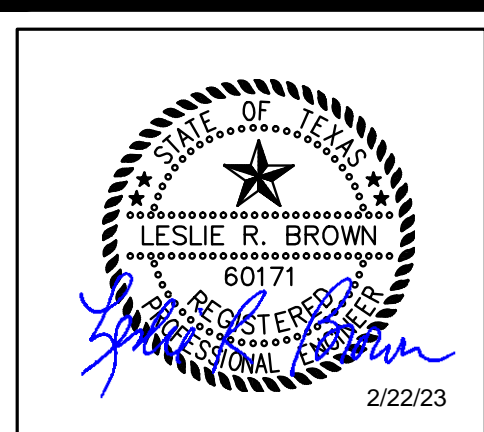
1 DOMESTIC WATER HEATING SYSTEM
NOT TO SCALE

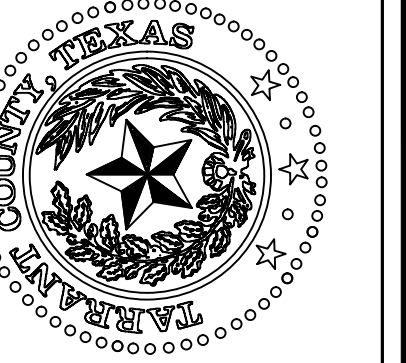


TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT
100 N LAMAR STREET FORT WORTH, TEXAS 76102

CONTROL DIAGRAMS
(NIC - FOR REFERENCE ONLY)

NO.	DESCRIPTION	DATE



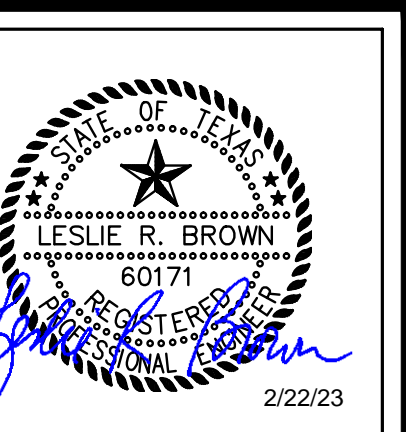


**TARRANT COUNTY CORRECTIONS CENTER
 AHU REPLACEMENT PROJECT**

100 N LAMAR STREET FORT WORTH, TEXAS 76102

AHU RISER DIAGRAMS

NO.	DESCRIPTION	DATE

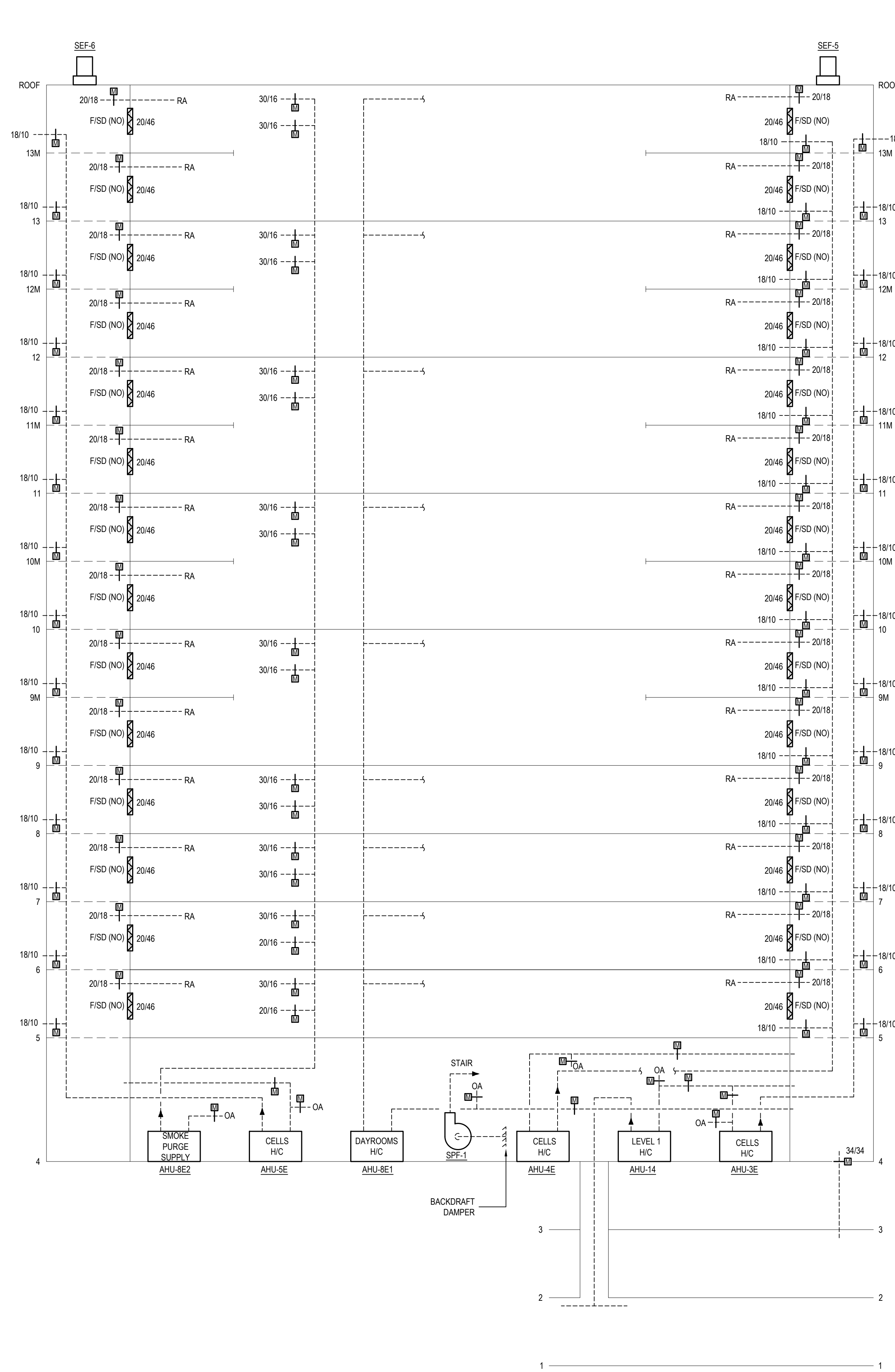


PROJECT NUMBER: 2021.010.042
 DATE: 02/15/2023 DRAWN BY: EMS
 DESIGN BY: LRB CHECKED BY: LRB

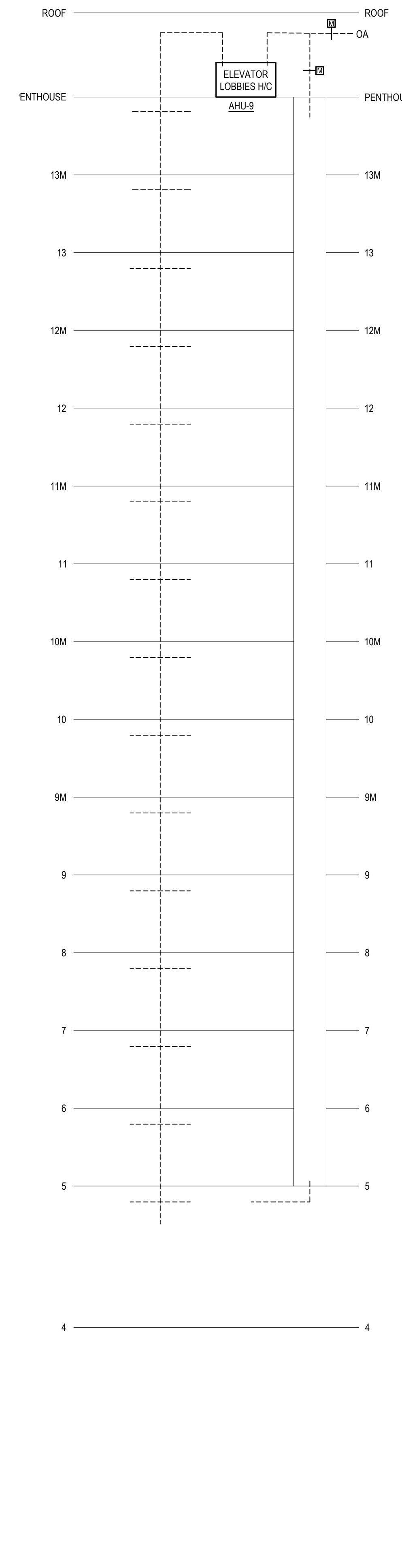
SHEET
M3-1
 SHEET 20 OF 26 M SHEETS TOTAL

SHEET NOTES:

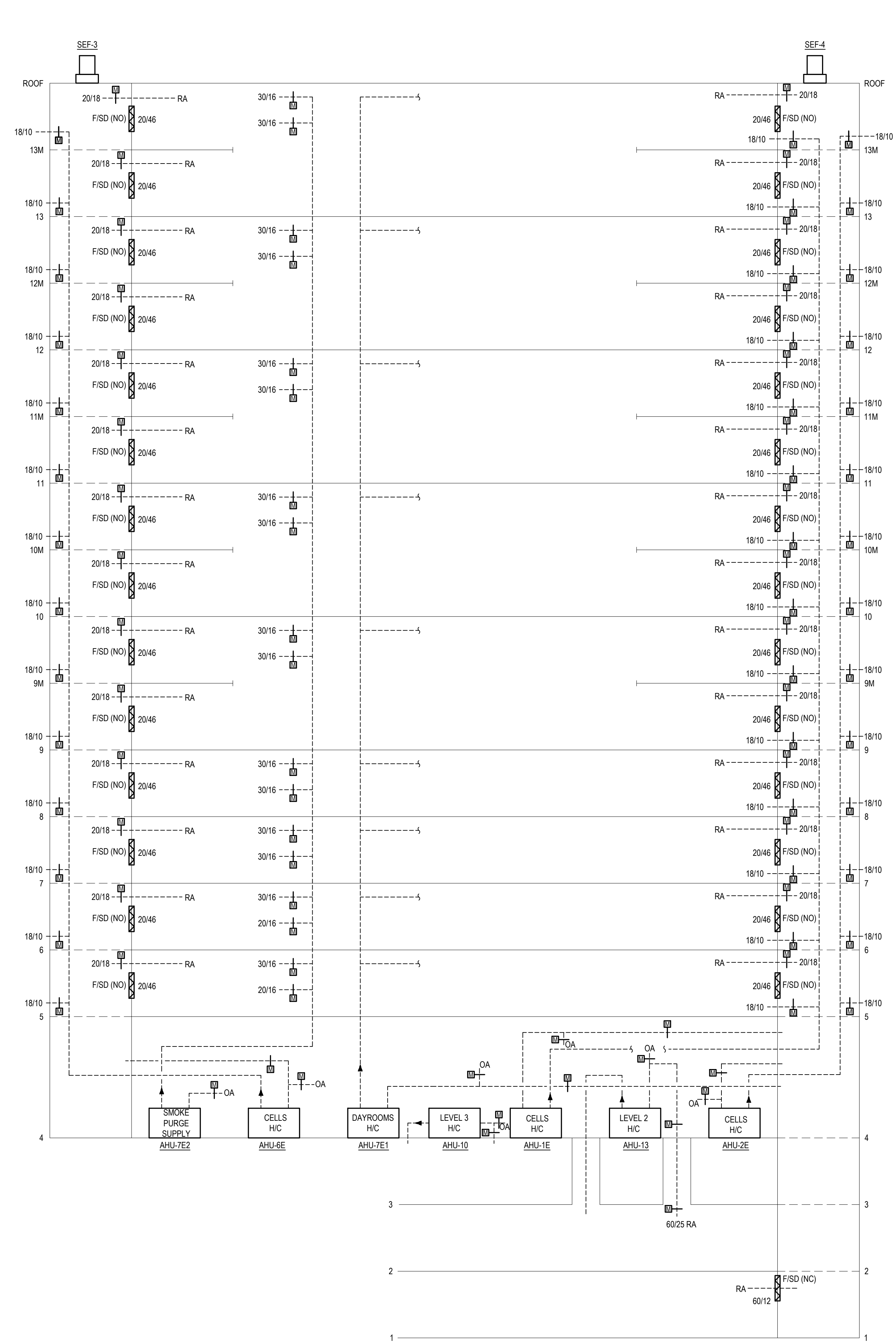
1. CONFIRM EXACT SIZE OF ALL DAMPERS. SOME SIZES INDICATED MAY BE SHEET METAL DUCT SIZE AND SOME SIZES MAY BE FREE AIR SIZES FOR LINED DUCTS.
2. ALL COMBINATION F/SD DAMPERS SHALL BE UL555 AND UL555S LISTED.
3. ALL SD DAMPERS AND ALL MOTORIZED DAMPERS (EXCEPT FOR OIA DUCTS) SHALL BE UL555S LISTED.



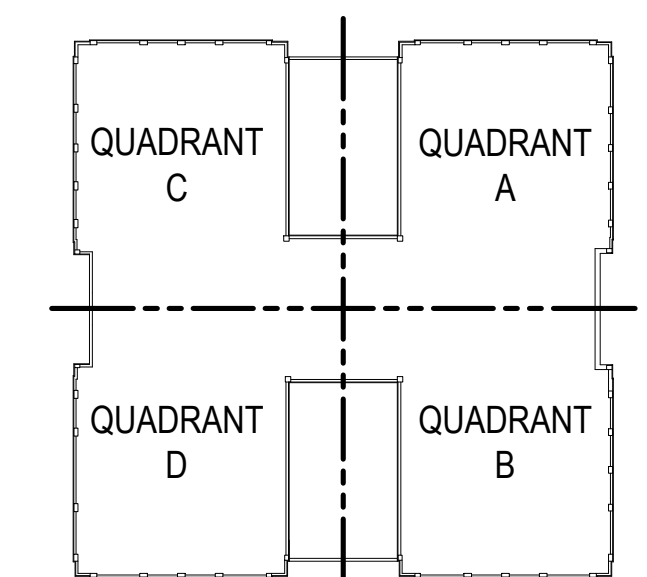
1
 M3-1
 QUADRANT B - AHU RISER DIAGRAM
 NOT TO SCALE

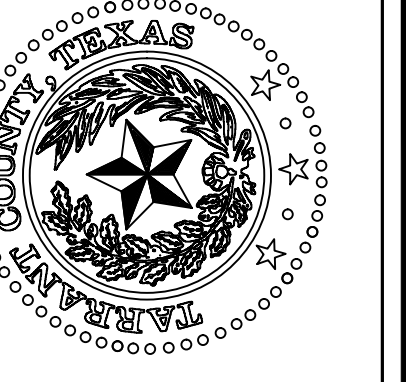


2
 M3-1
 QUADRANT A - AHU RISER DIAGRAM
 NOT TO SCALE



KEY PLAN





**TARRANT COUNTY CORRECTIONS CENTER
 AHU REPLACEMENT PROJECT**

100 N LAMAR STREET FORT WORTH, TEXAS 76102

AHU RISER DIAGRAMS

NO.	DESCRIPTION	DATE

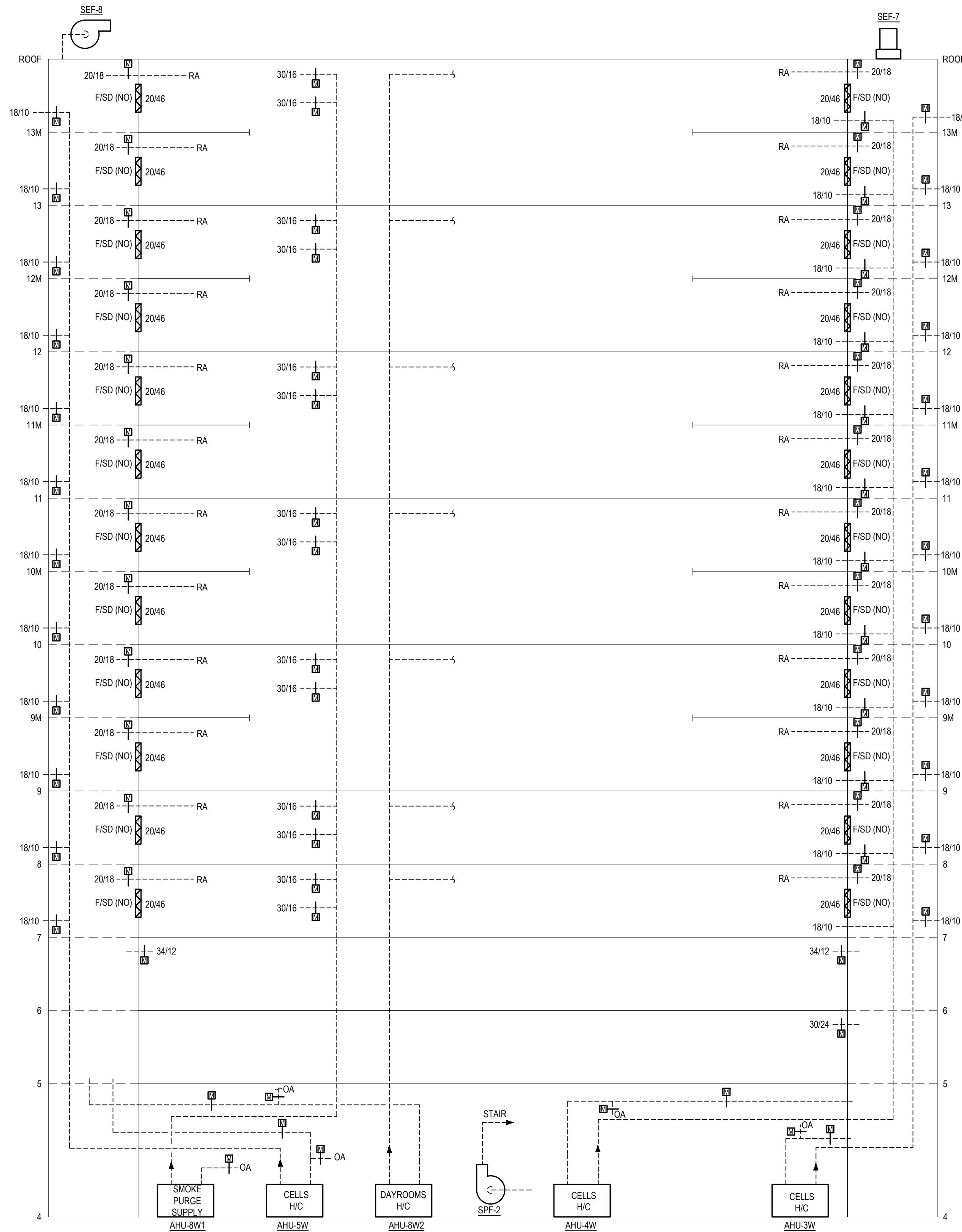


PROJECT NUMBER: 2021.010.042
 DATE: 02/15/2023 DRAWN BY: EMS
 DESIGN BY: LRB CHECKED BY: LRB

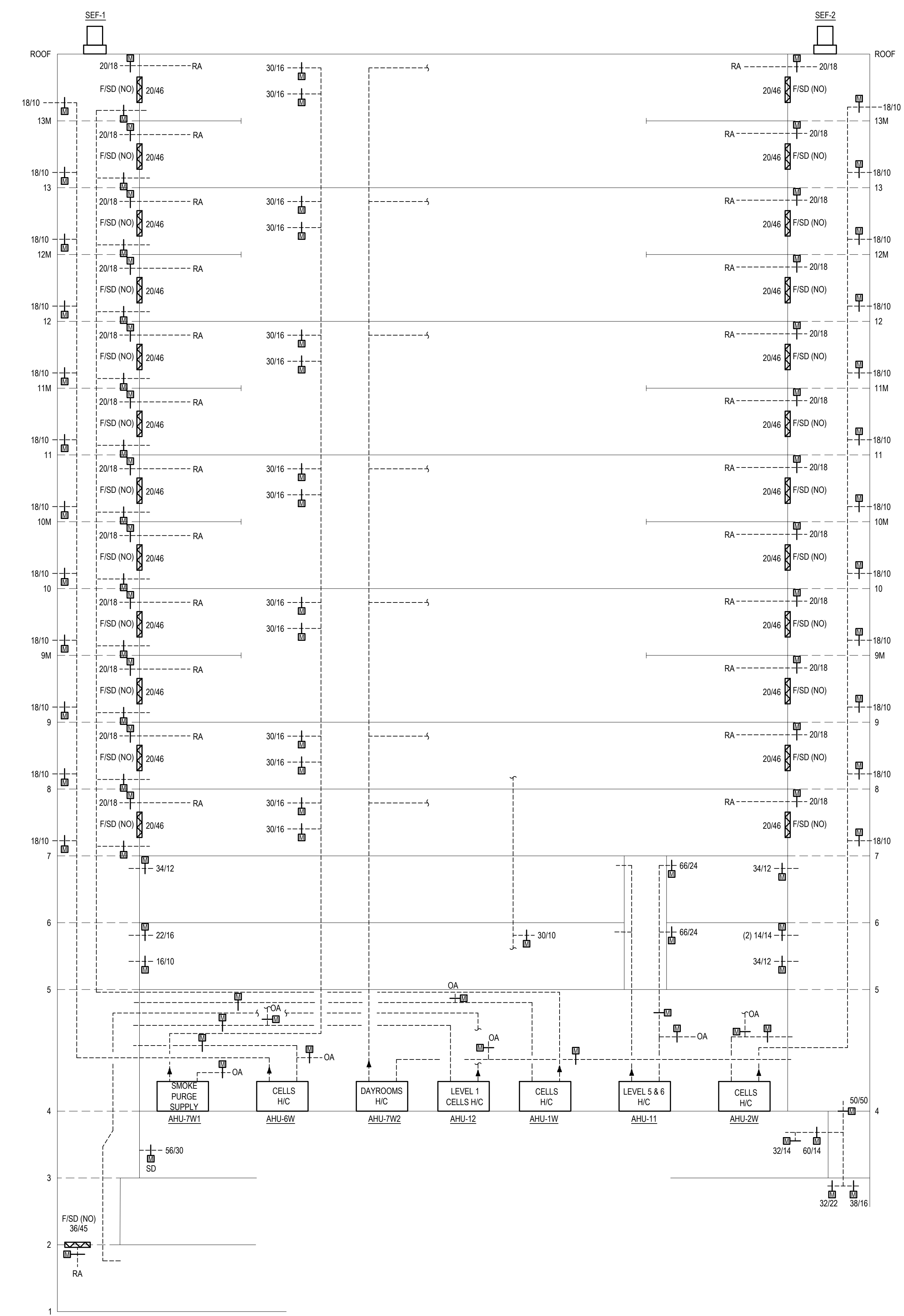
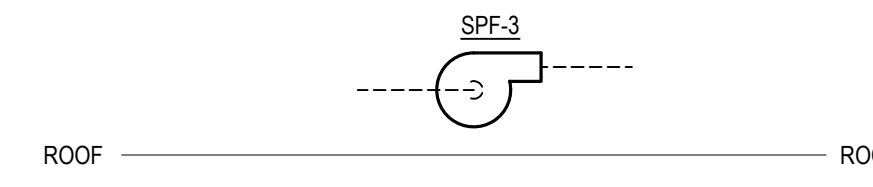
SHEET
M3-2
 SHEET 21 OF 26 M SHEETS TOTAL

SHEET NOTES:

1. CONFIRM EXACT SIZE OF ALL DAMPERS. SOME SIZES INDICATED MAY BE SHEET METAL DUCT SIZE AND SOME SIZES MAY BE FREE AIR SIZES FOR LINED DUCTS.
2. ALL COMBINATION F/SD DAMPERS SHALL BE UL555 AND UL5555 LISTED.
3. ALL SD DAMPERS AND ALL MOTORIZED DAMPERS (EXCEPT FOR OIA DUCTS) SHALL BE UL5555 LISTED.

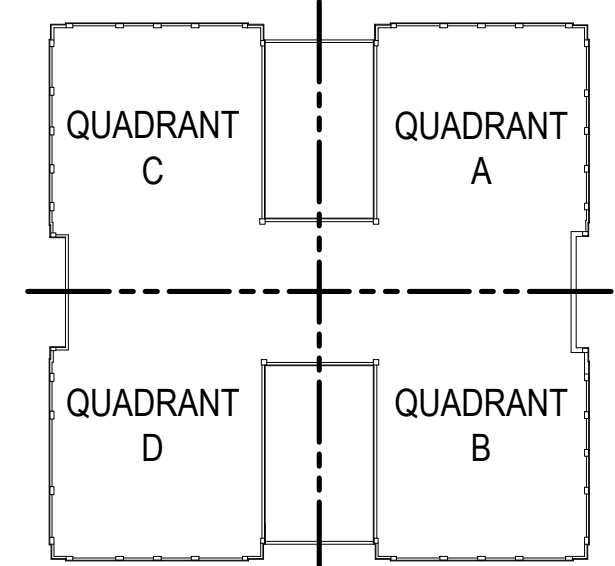


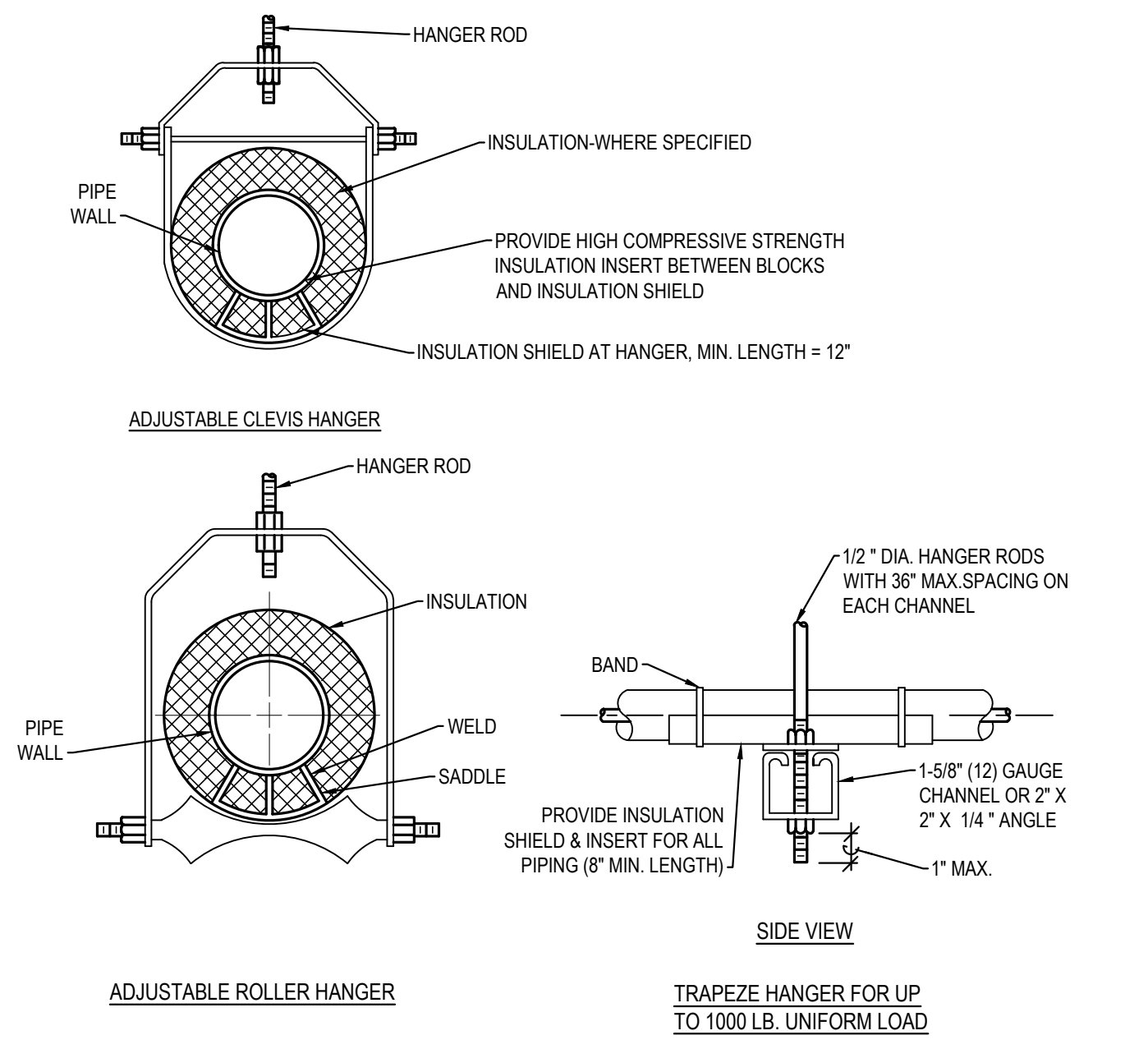
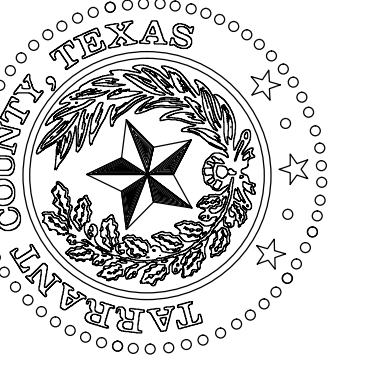
1 QUADRANT D - AHU RISER DIAGRAM
 M3-2 NOT TO SCALE



2 QUADRANT C - AHU RISER DIAGRAM
 M3-2 NOT TO SCALE

KEY PLAN

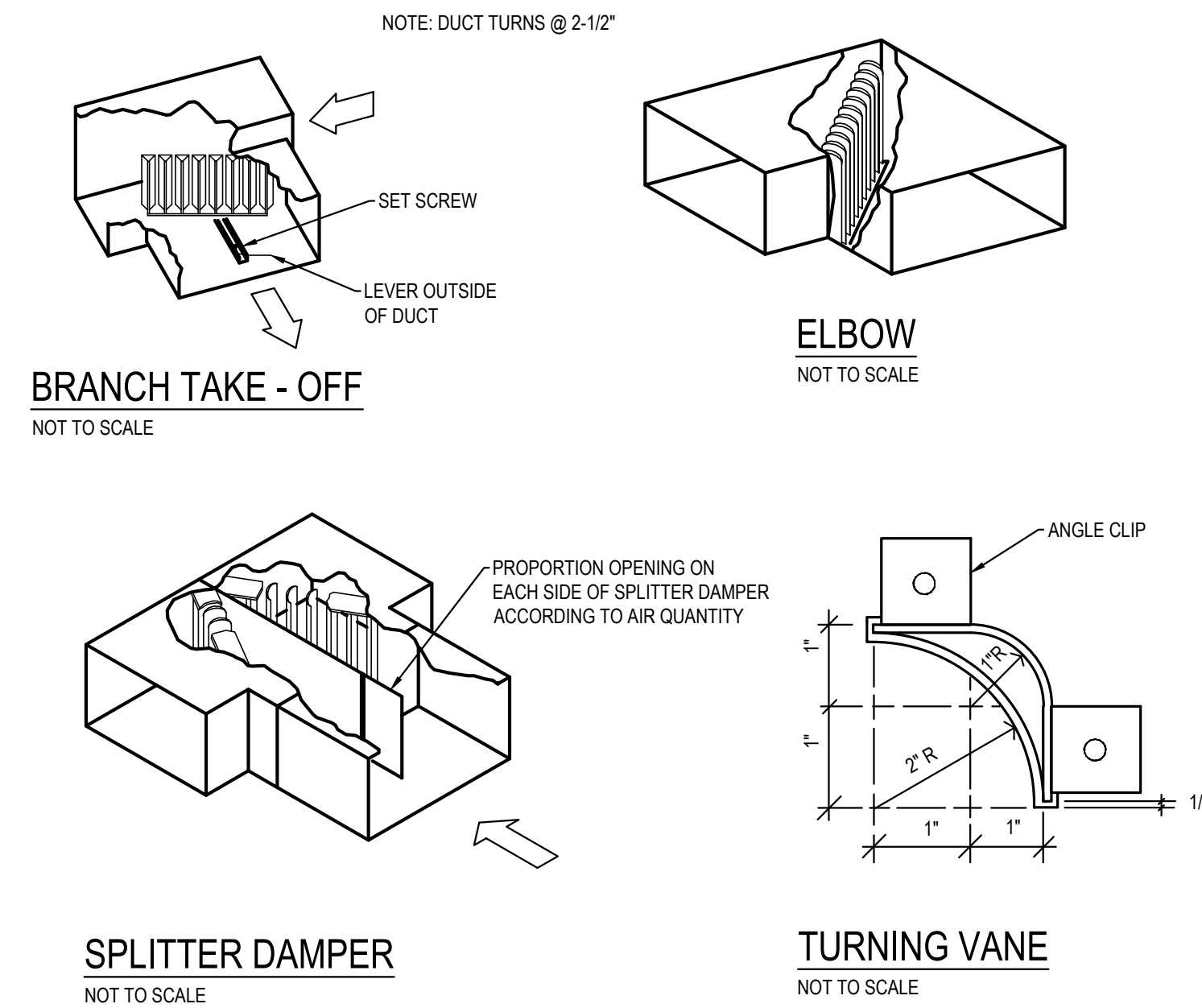




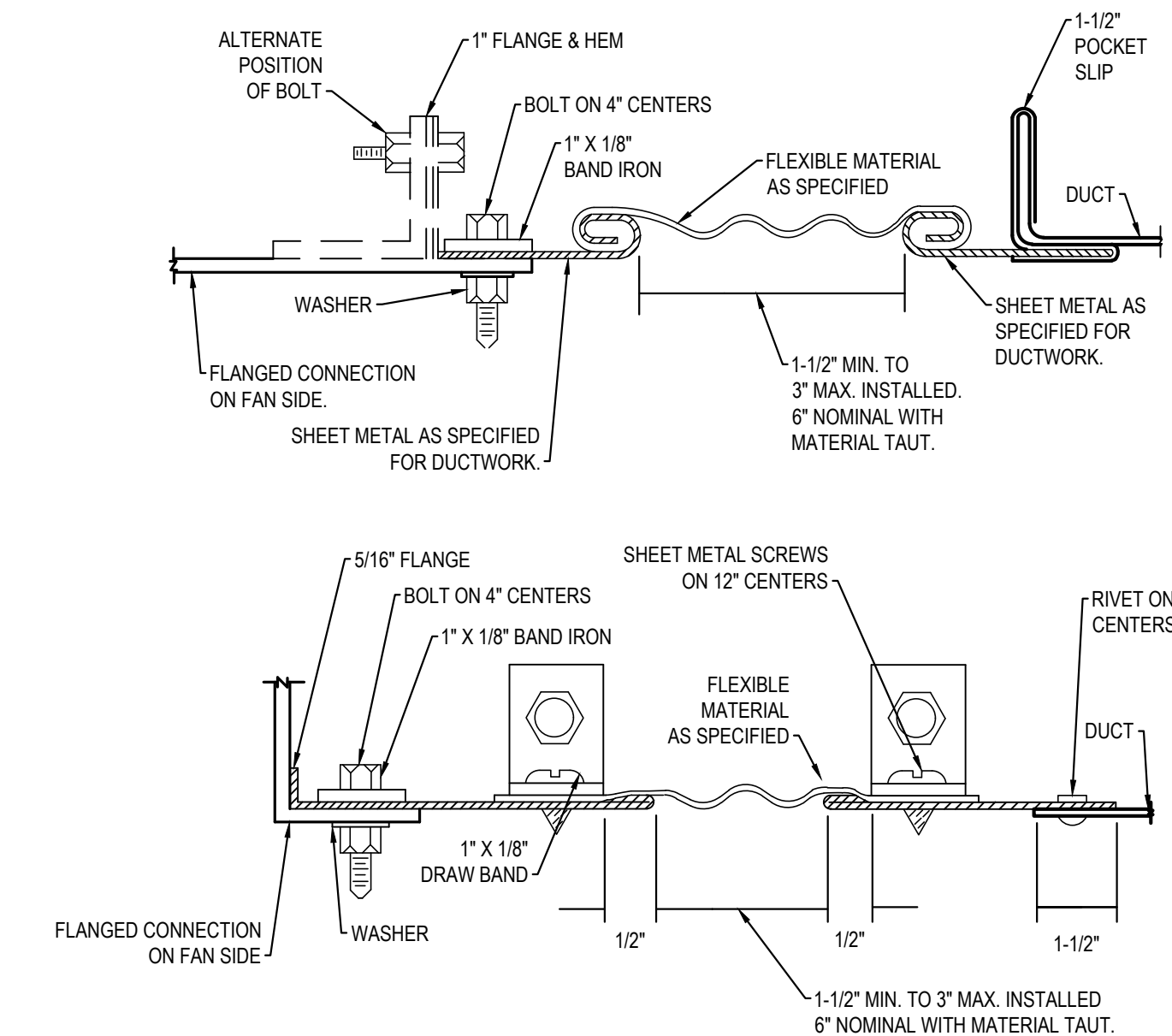
NOM. PIPE SIZE		THRU 3/4"											THRU 2"										
SPACING	7 FT	7	8	9	10	11	12	14	16	17	19	22	23	25	27	28	30	32					

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

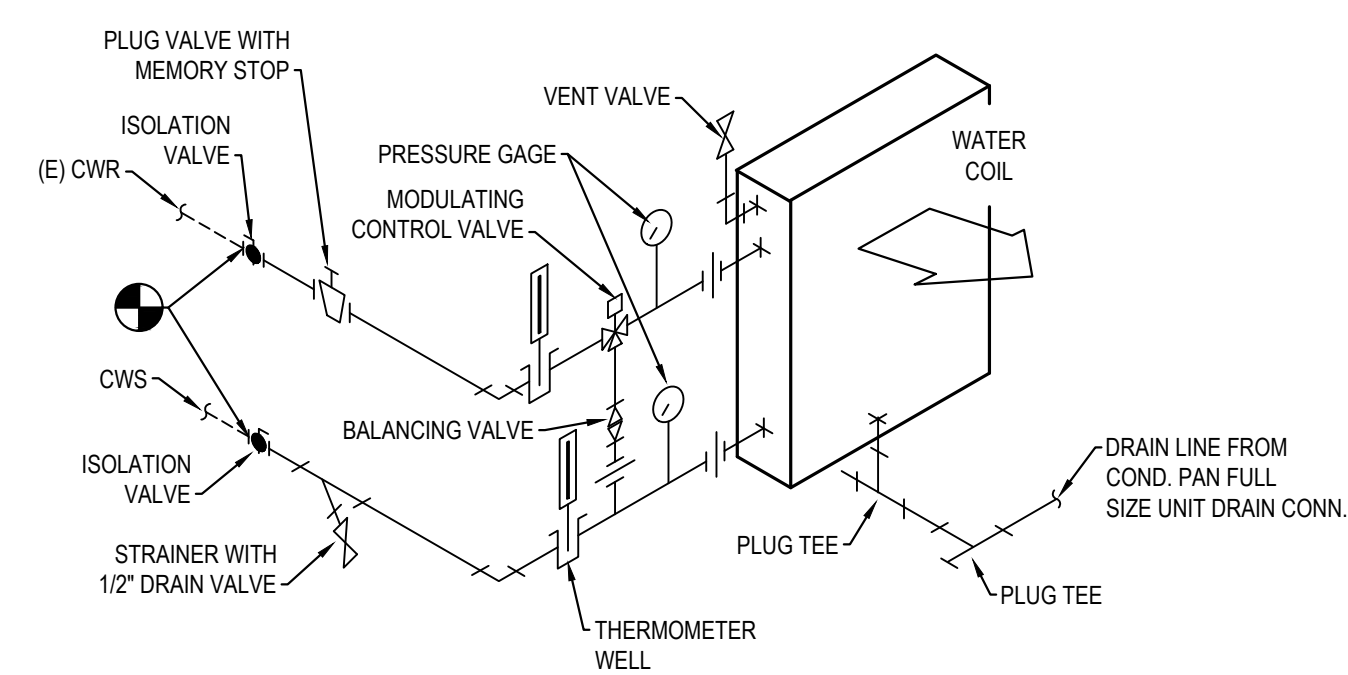
1 TYPICAL PIPE HANGER DETAIL
 NOT TO SCALE



2 DUCT CONSTRUCTION DETAILS
 NOT TO SCALE

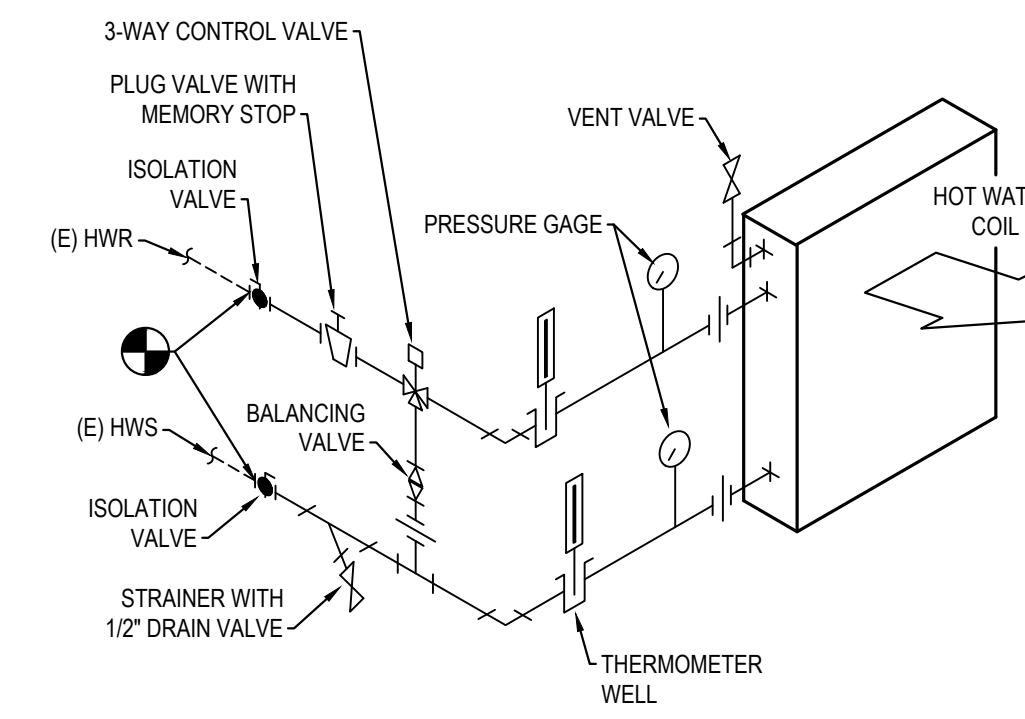


3 TYPICAL FLEX CONNECTION DETAIL
 NOT TO SCALE

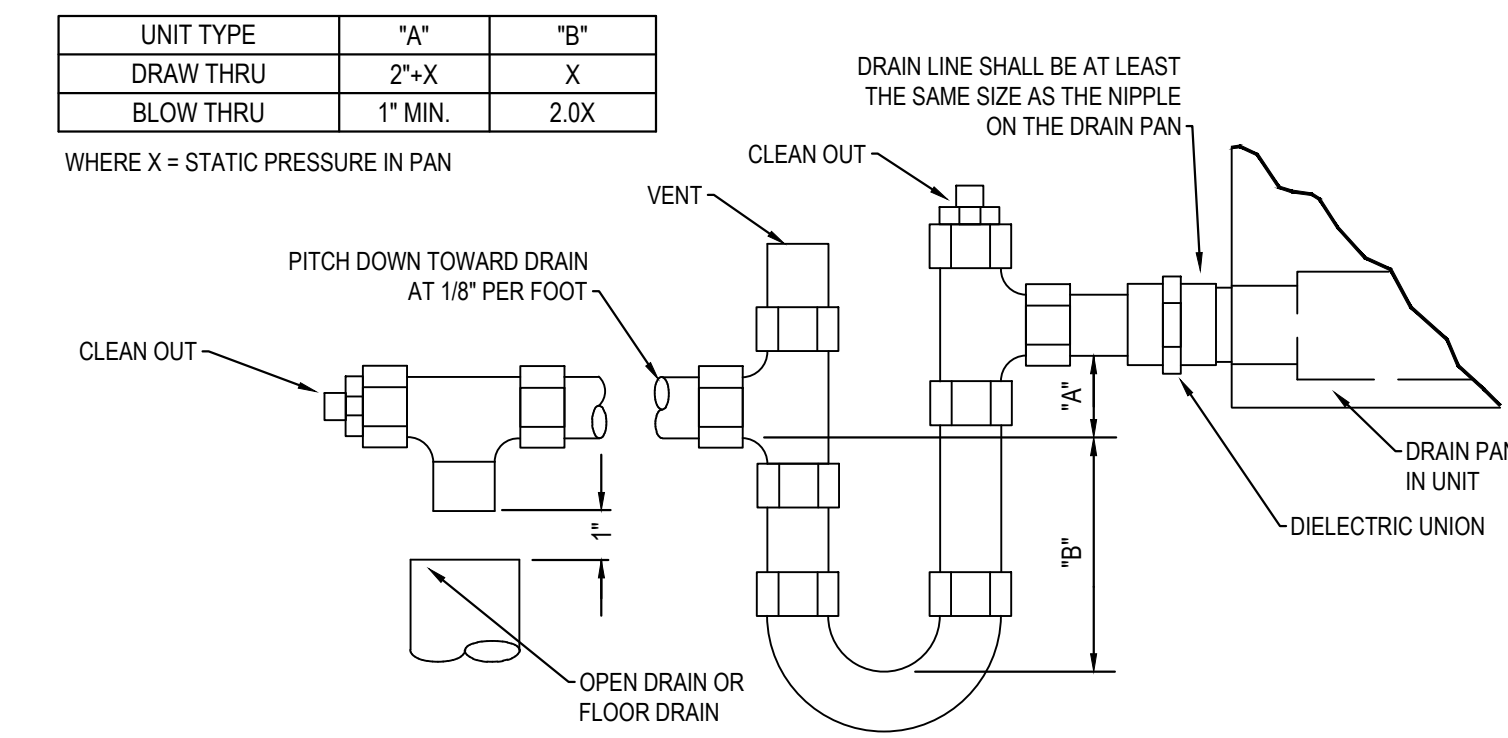


4 AHU CHILLED WATER COIL PIPING DIAGRAM
 NOT TO SCALE

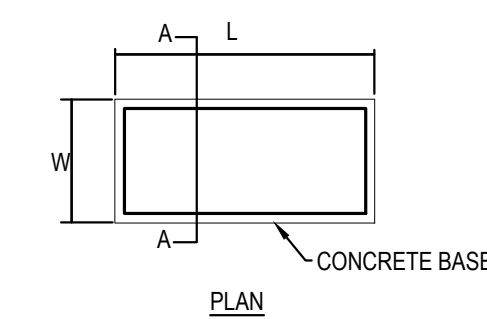
NOTE:
 1. SOME CHILLED WATER VALVES ARE 2-WAY. REFER TO CONTROL DIAGRAMS.



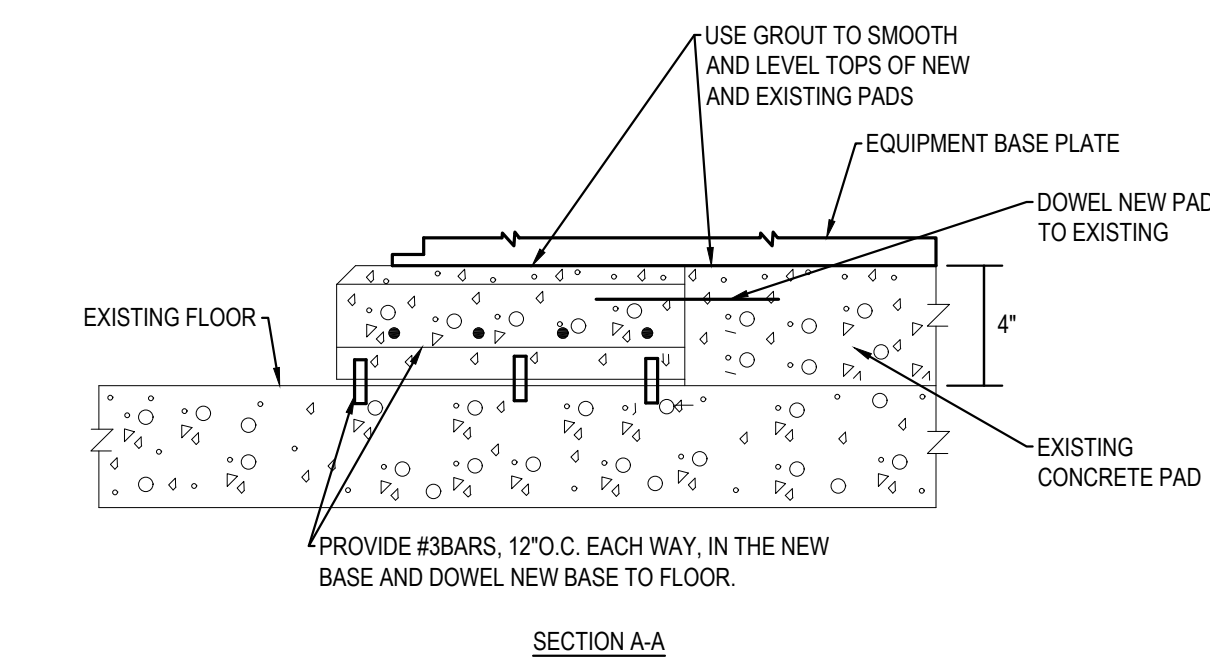
5 AHU HOT WATER COIL PIPING DIAGRAM
 NOT TO SCALE



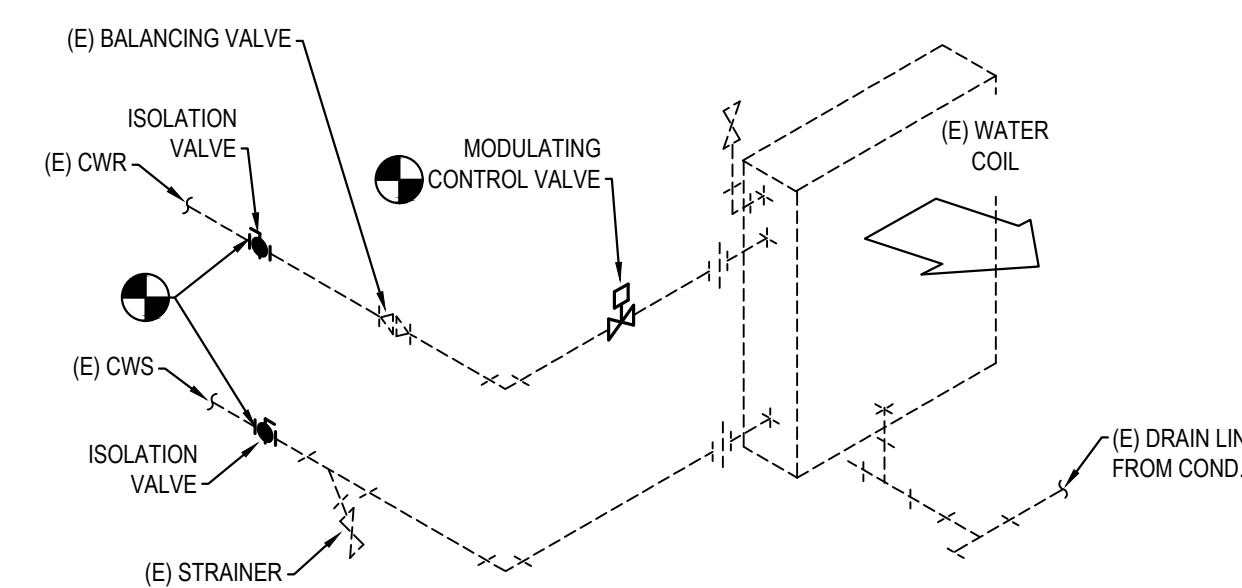
6 AIR HANDLING UNIT DRAIN DETAIL
 NOT TO SCALE



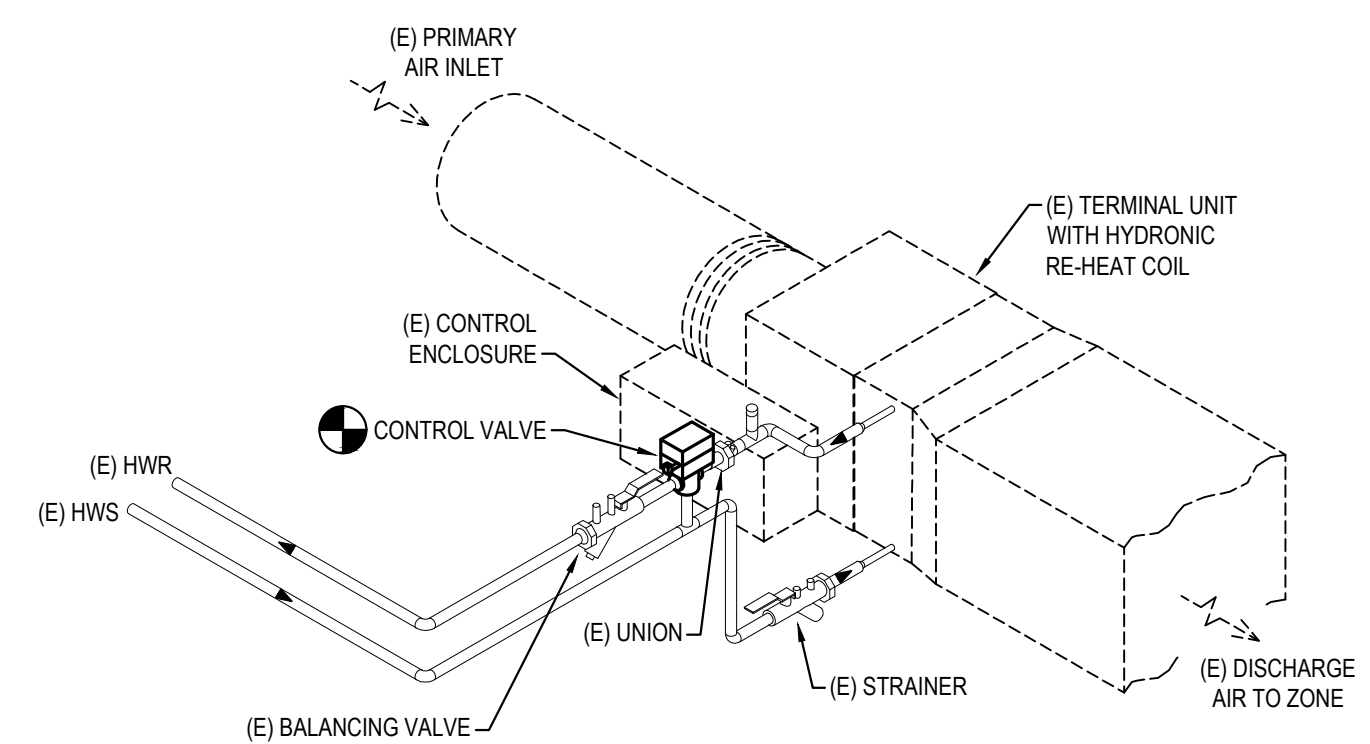
NOTE:
 1. L AND W DIMENSIONS SHALL BE 4 INCHES GREATER THAN THE EQUIPMENT BASE PLATE.



7 EXISTING EQUIPMENT PAD TIE-IN DETAIL
 NOT TO SCALE



8 (E) FCU CHILLED WATER COIL PIPING DIAGRAM
 NOT TO SCALE

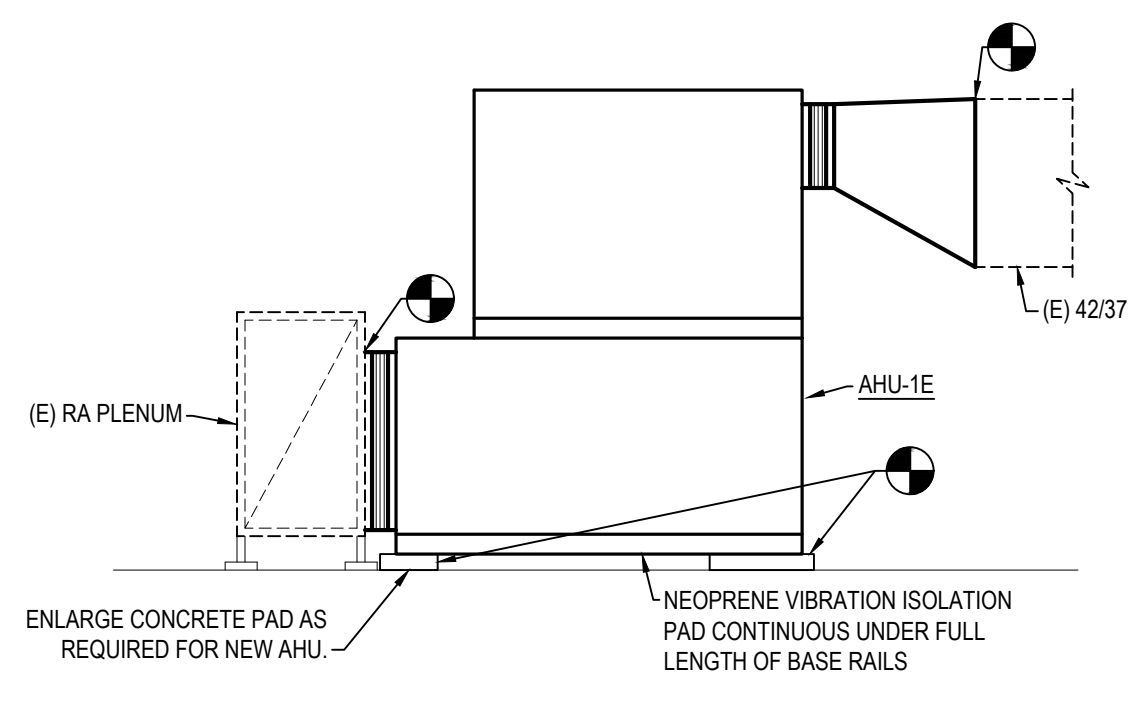


9 (E) TERMINAL UNIT WITH HYDRONIC RE-HEAT COIL
 NOT TO SCALE

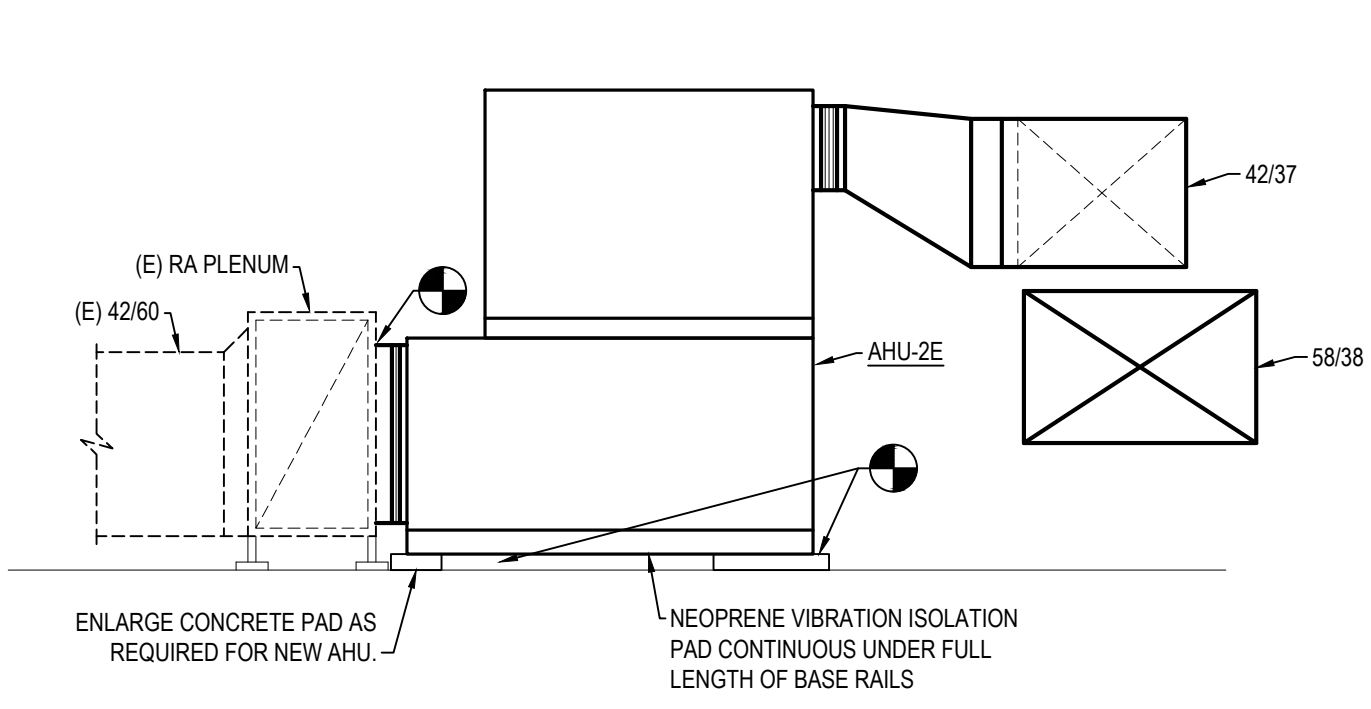
MECHANICAL DETAILS

NO.	DESCRIPTION	DATE

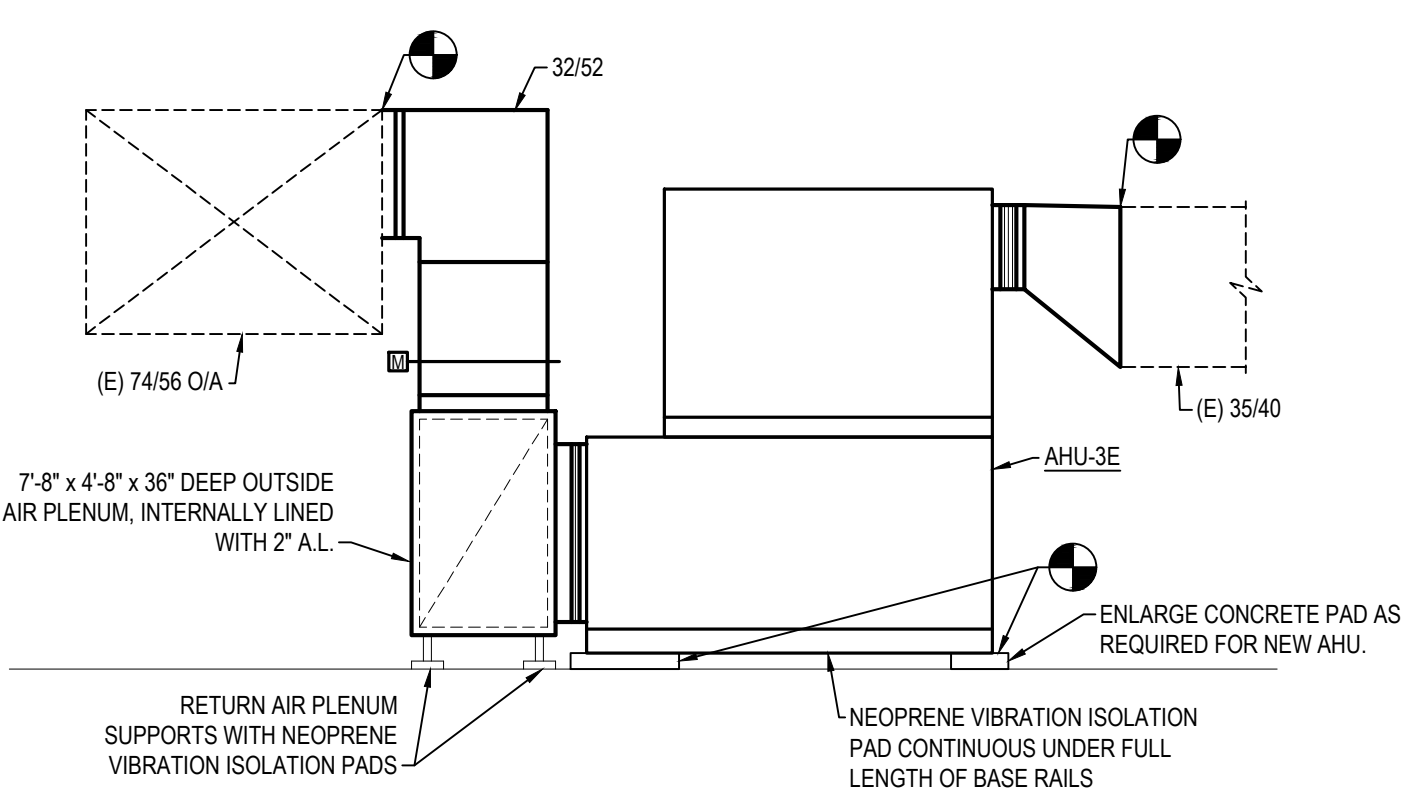




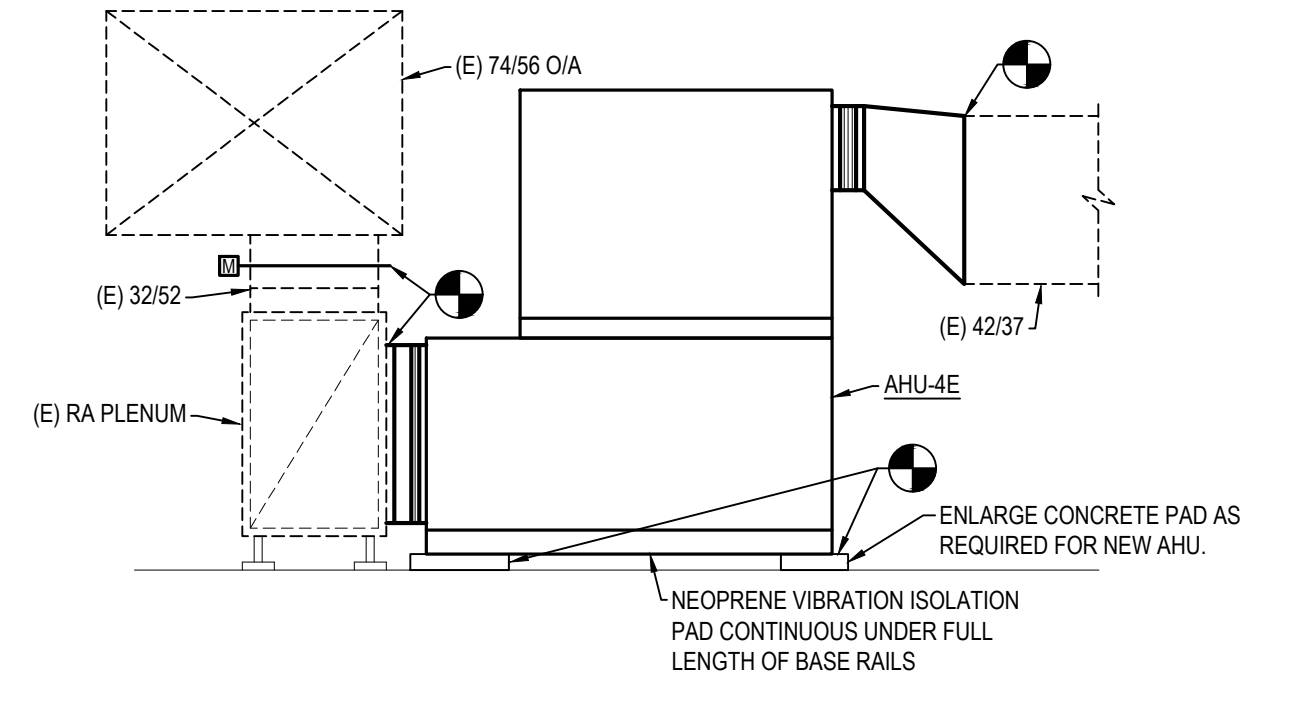
1 AHU-1E SECTION
SCALE: 1/4" = 1'-0"



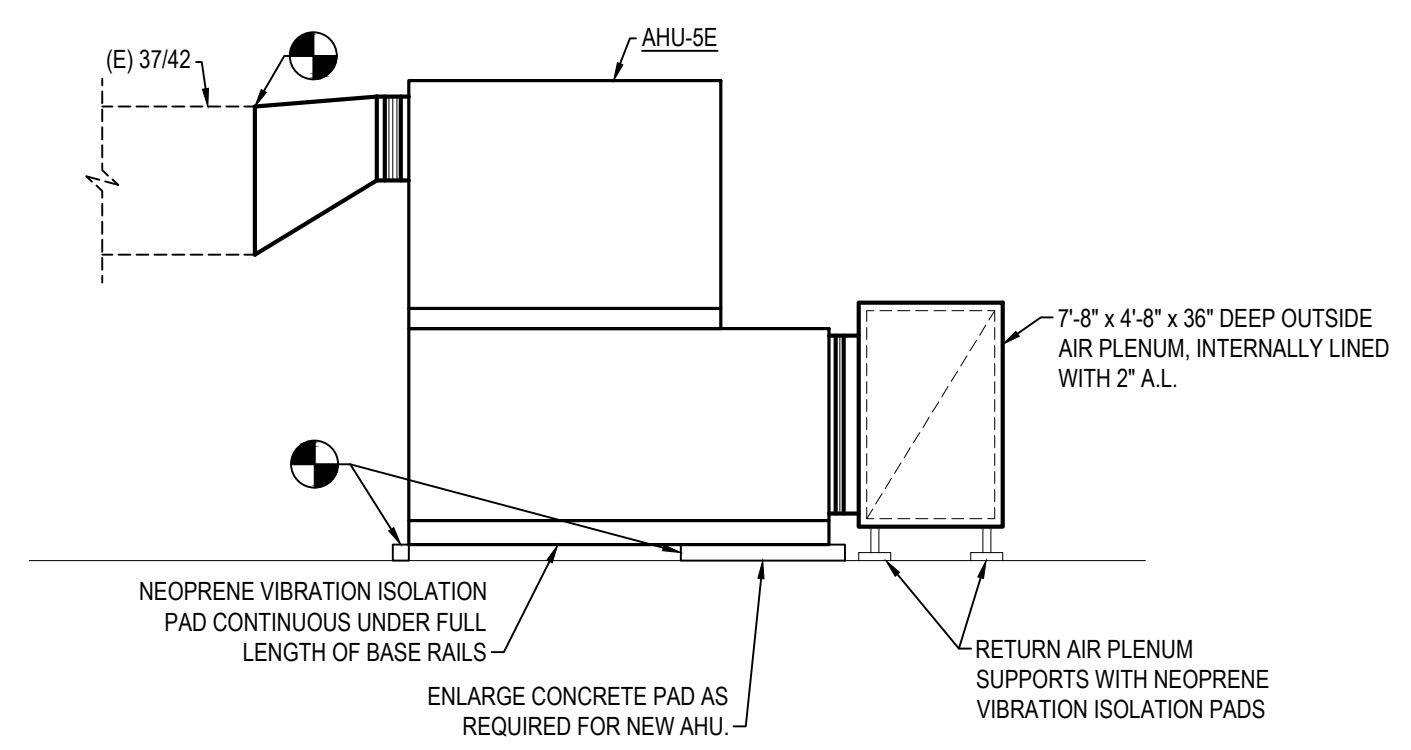
2 AHU-2E SECTION
SCALE: 1/4" = 1'-0"



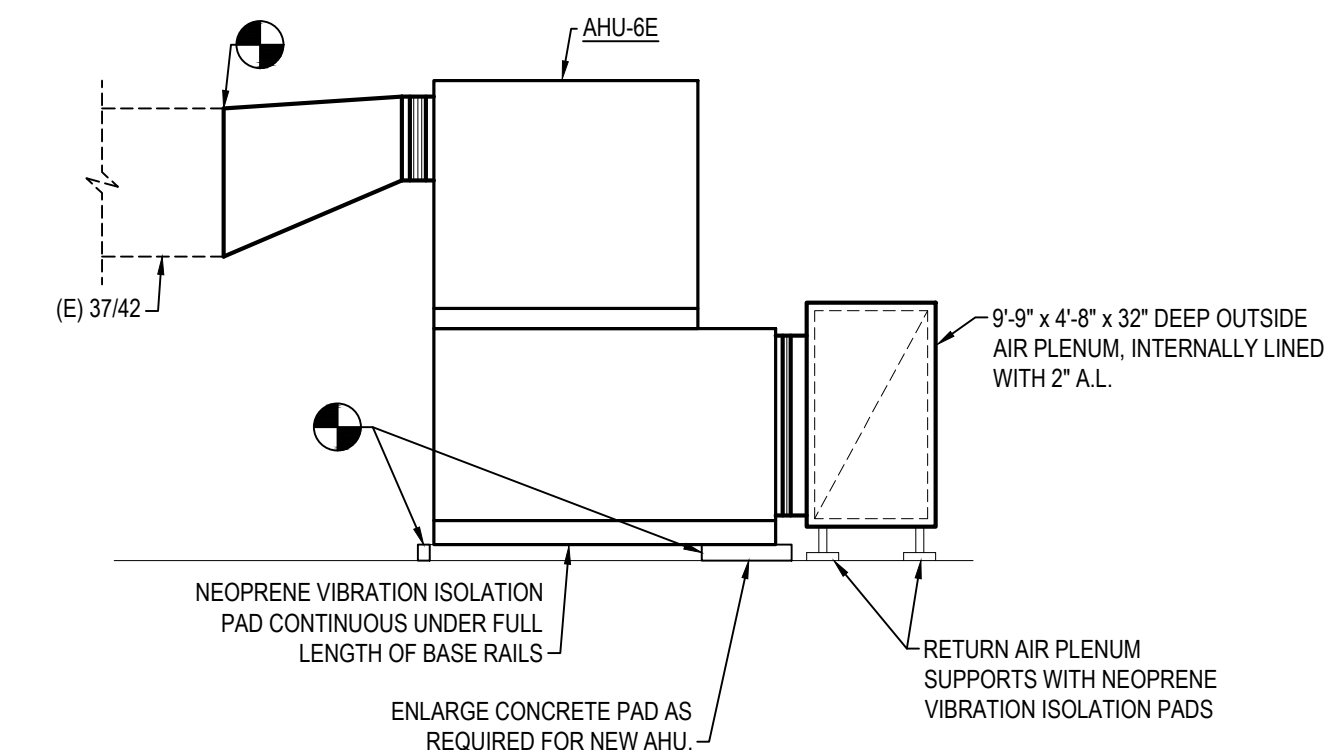
3 AHU-3E SECTION
SCALE: 1/4" = 1'-0"



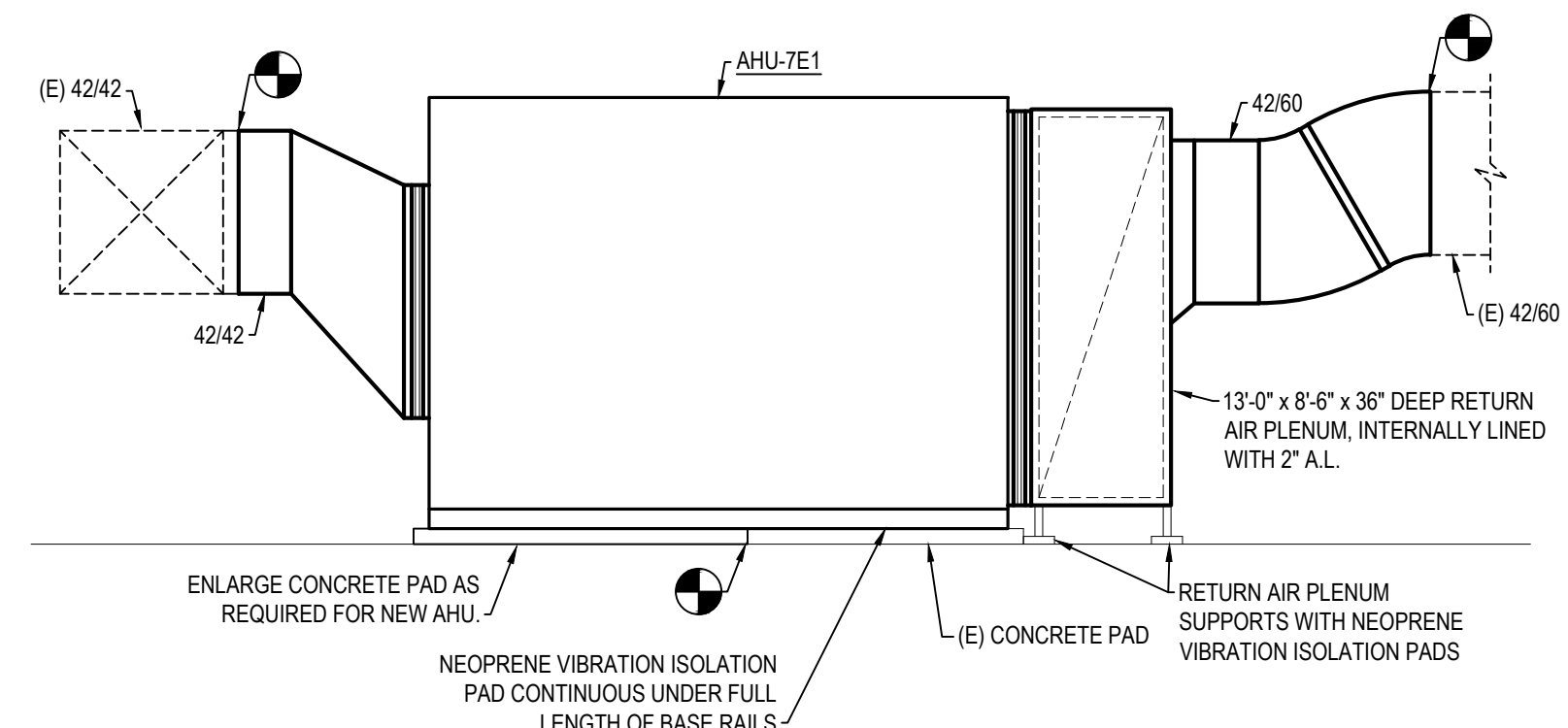
4 AHU-4E SECTION
SCALE: 1/4" = 1'-0"



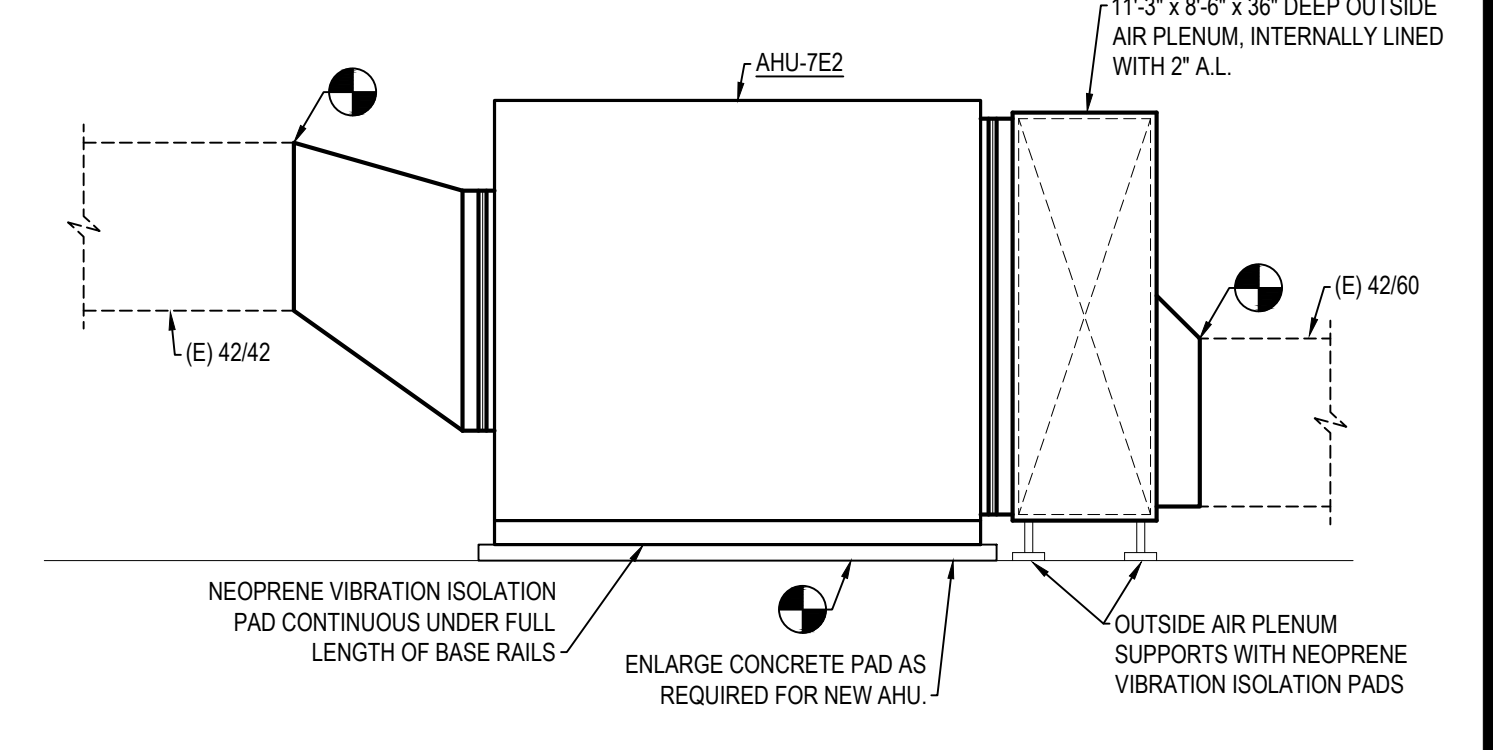
5 AHU-5E SECTION
SCALE: 1/4" = 1'-0"



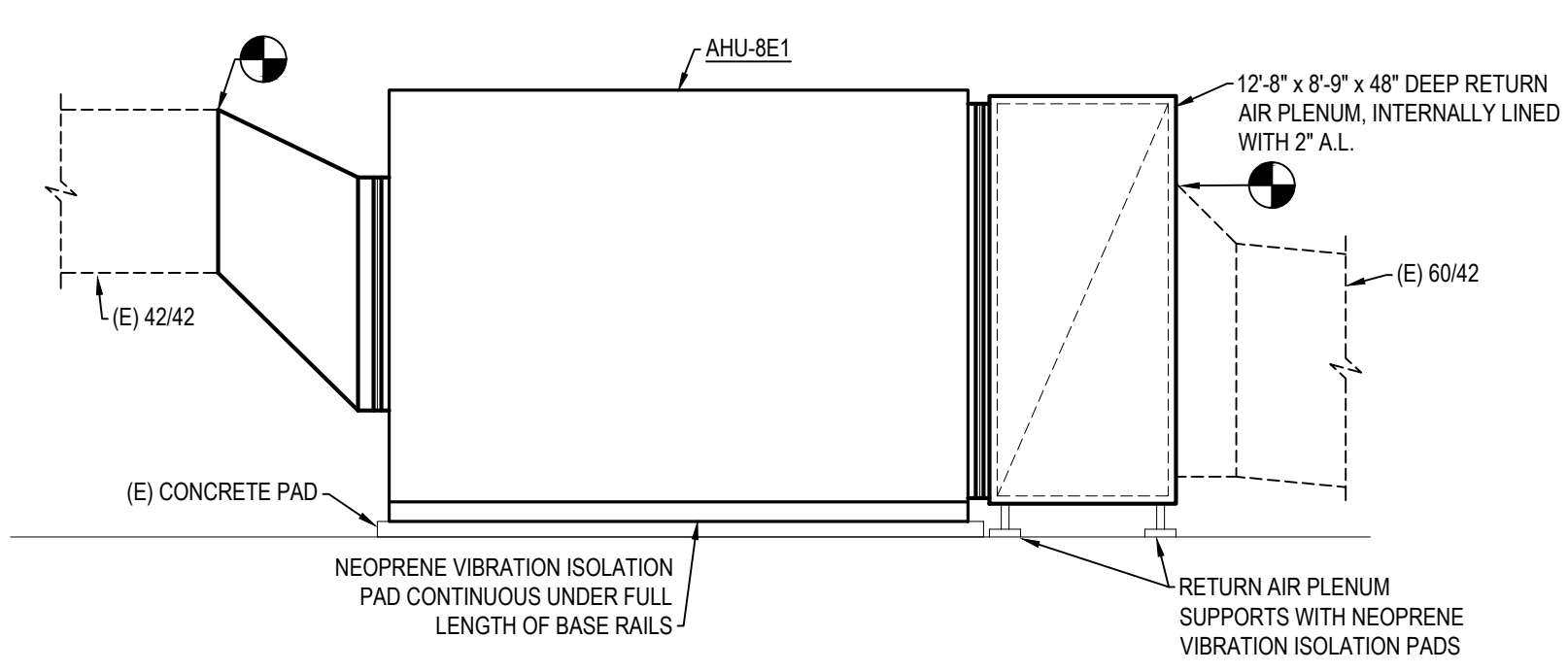
6 AHU-6E SECTION
SCALE: 1/4" = 1'-0"



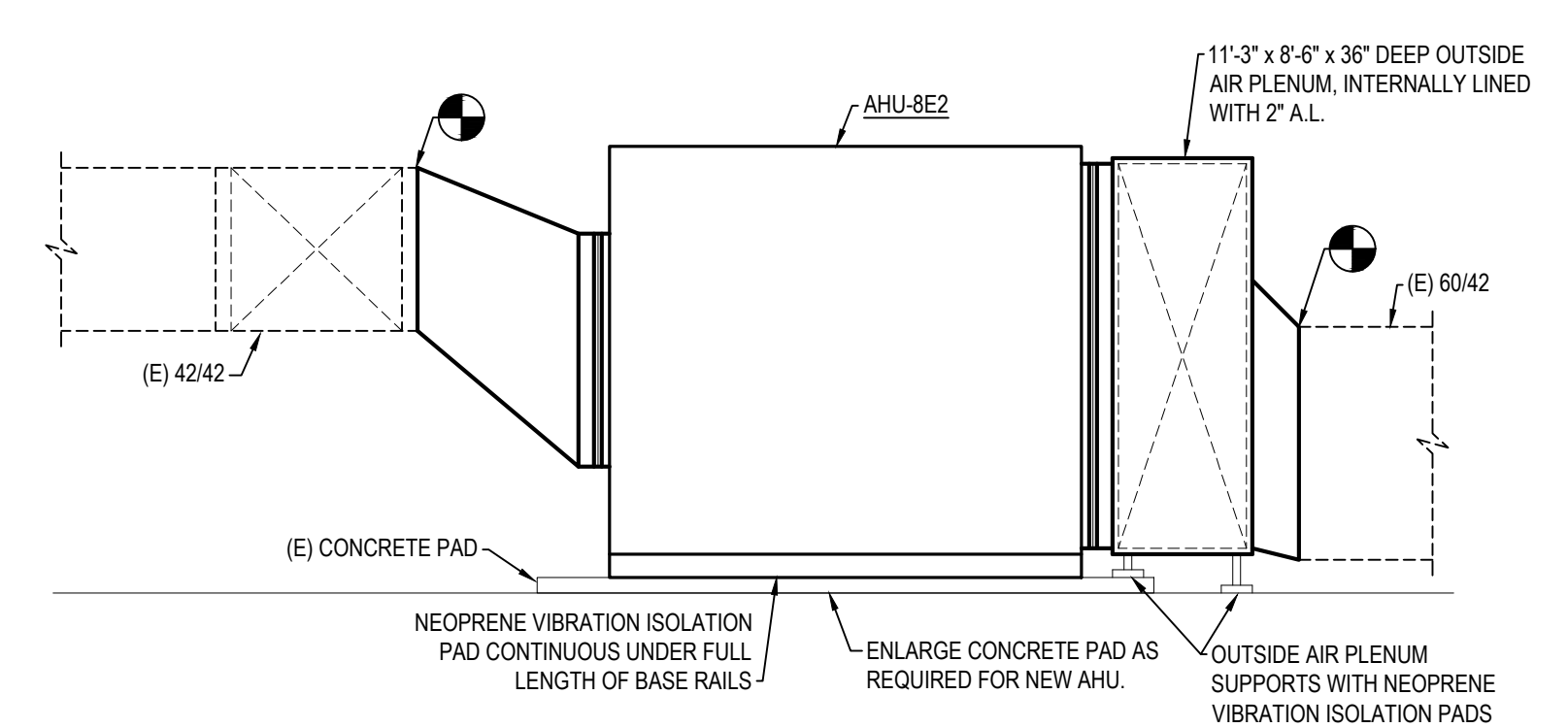
7 AHU-7E1 SECTION
SCALE: 1/4" = 1'-0"



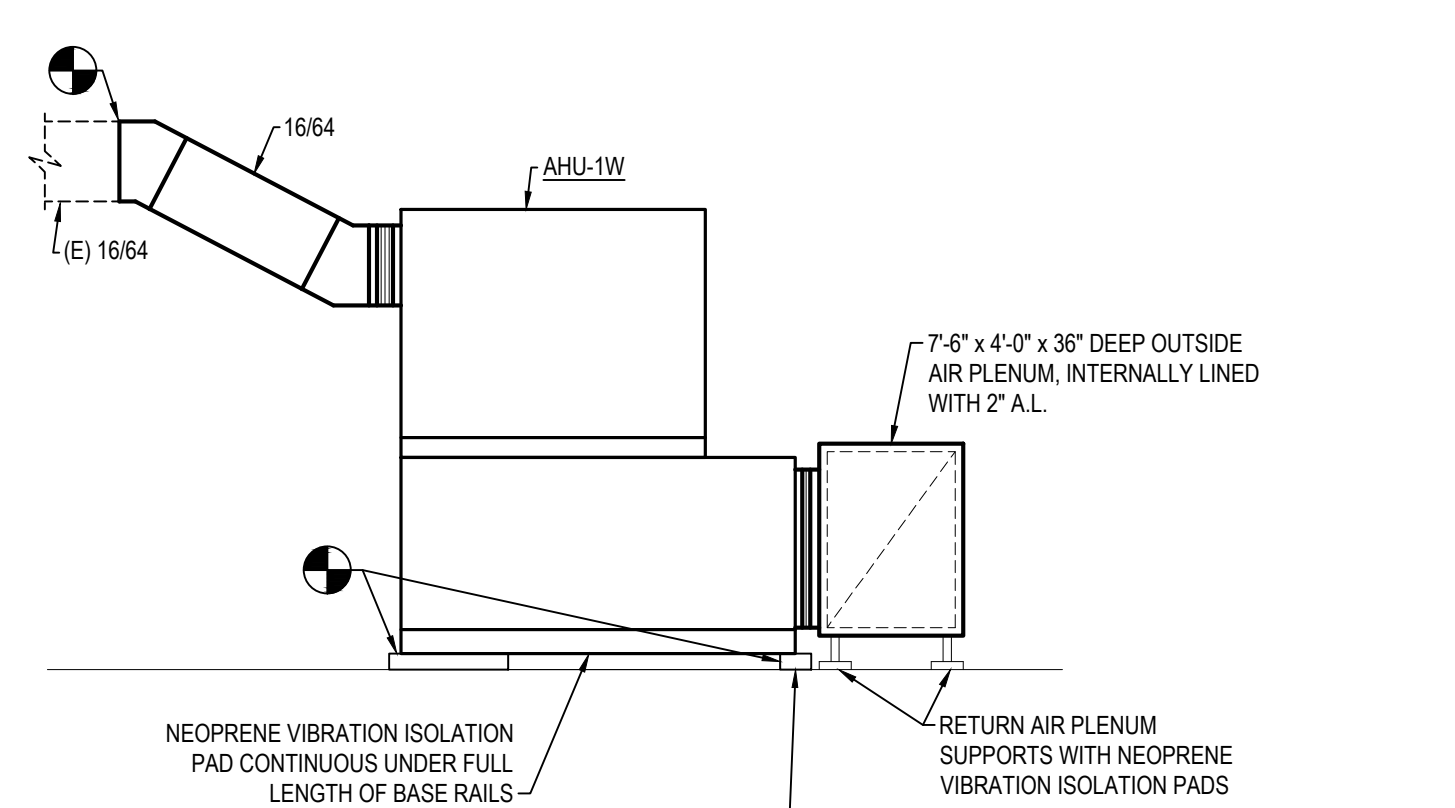
8 AHU-7E2 SECTION
SCALE: 1/4" = 1'-0"



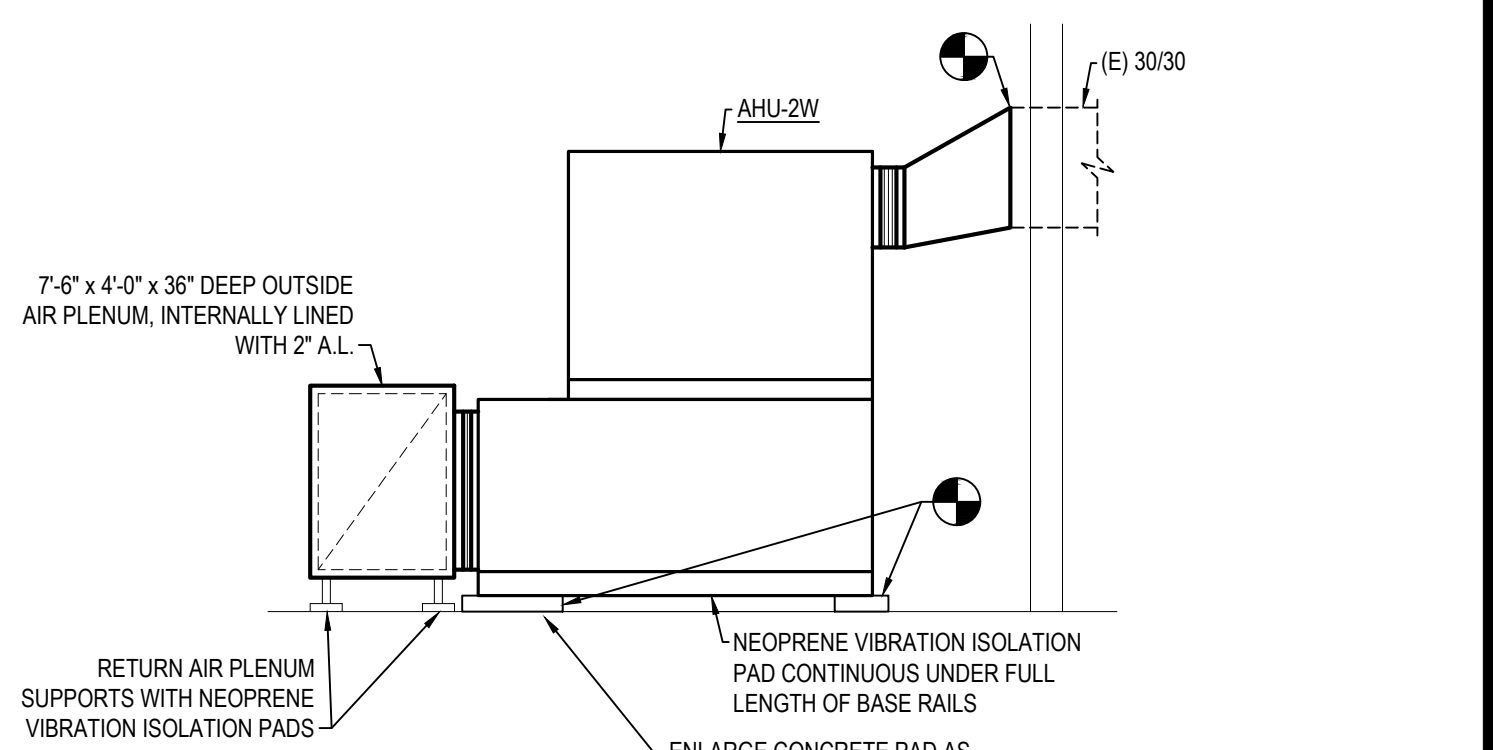
9 AHU-8E1 SECTION
SCALE: 1/4" = 1'-0"



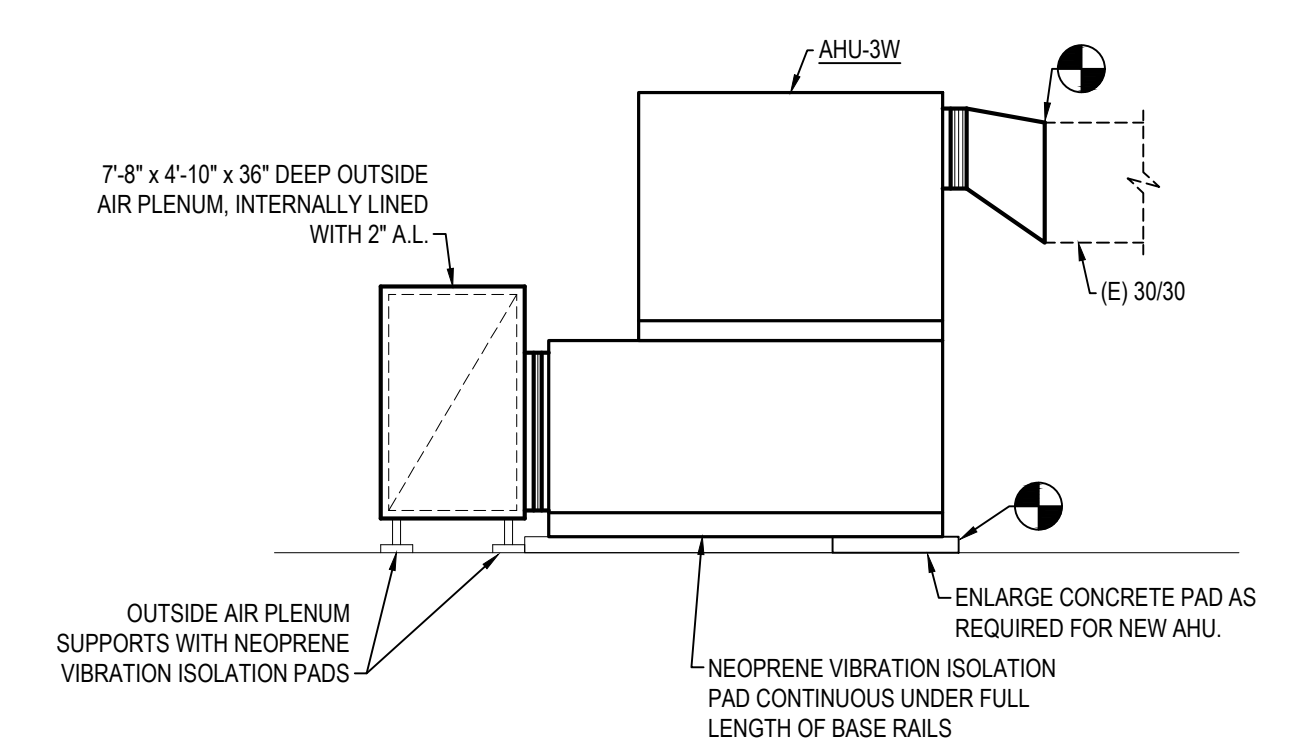
10 AHU-8E2 SECTION
SCALE: 1/4" = 1'-0"



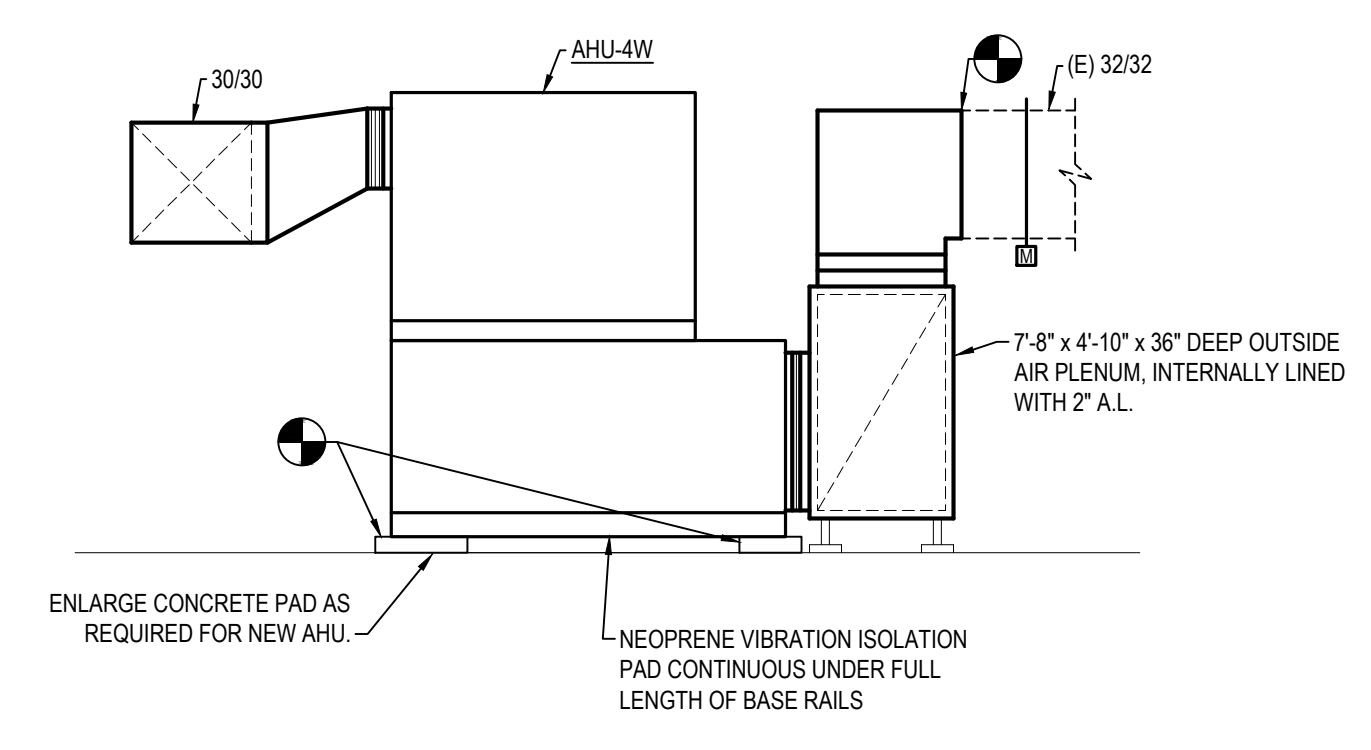
11 AHU-1W SECTION
SCALE: 1/4" = 1'-0"



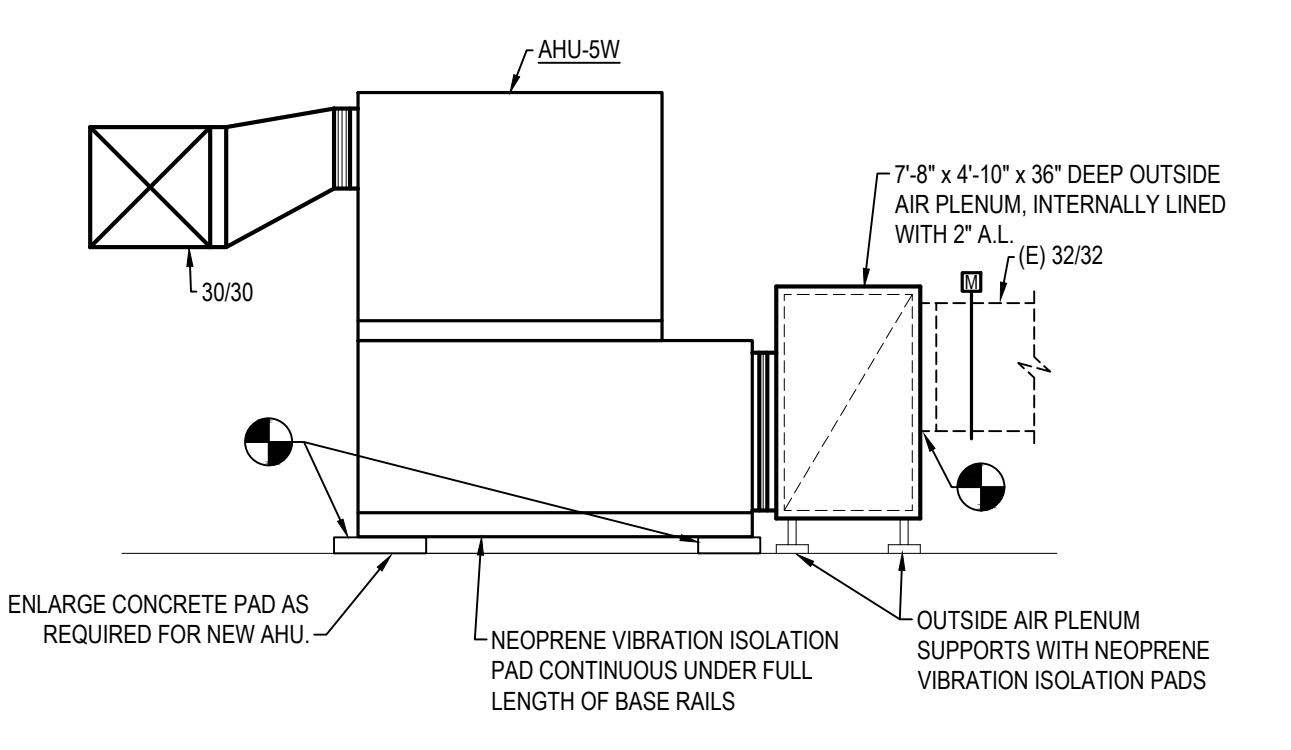
12 AHU-2W SECTION
SCALE: 1/4" = 1'-0"



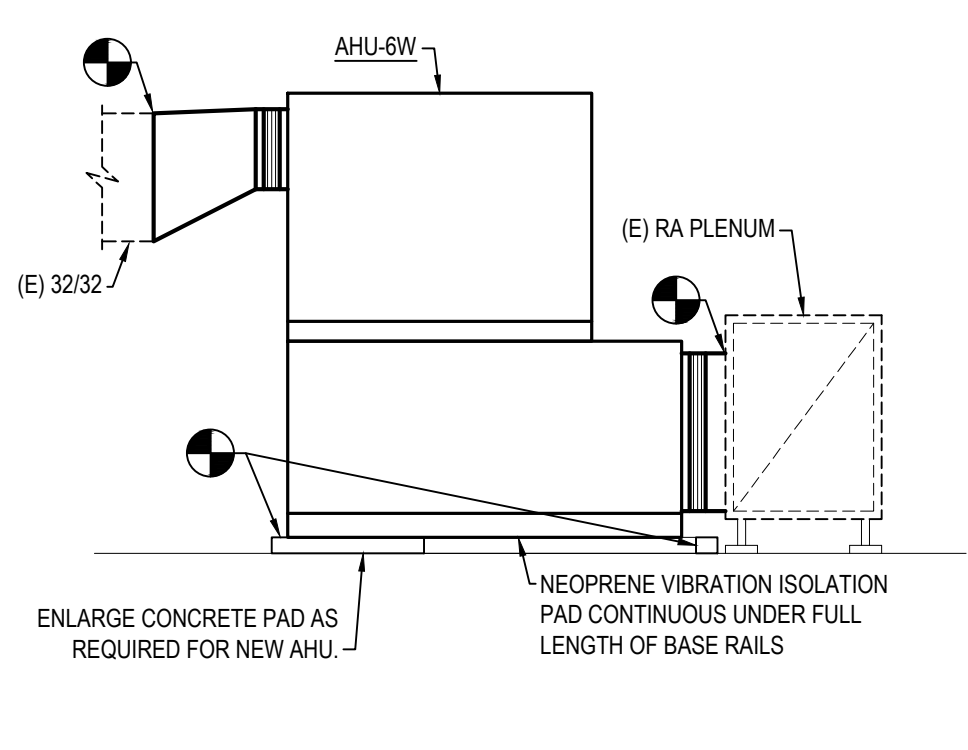
13 AHU-3W SECTION
SCALE: 1/4" = 1'-0"



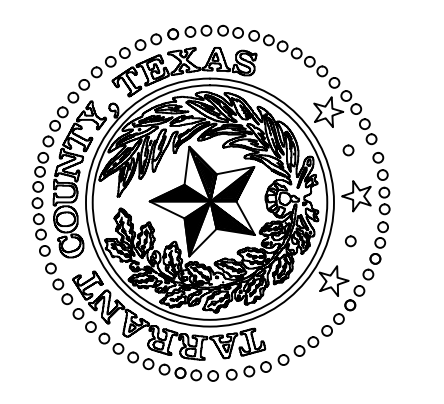
14 AHU-4W SECTION
SCALE: 1/4" = 1'-0"



15 AHU-5W SECTION
SCALE: 1/4" = 1'-0"



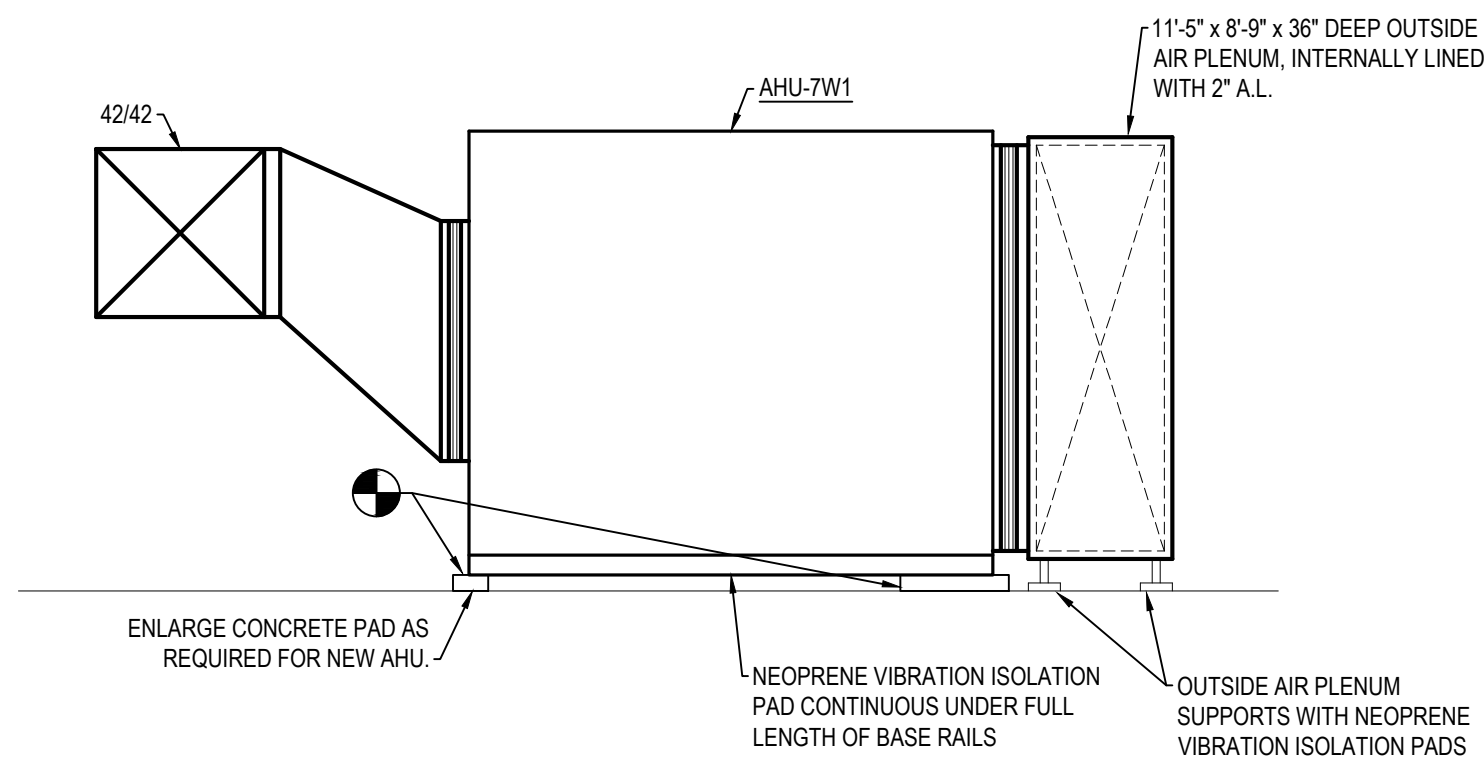
17 AHU-6W SECTION
SCALE: 1/4" = 1'-0"



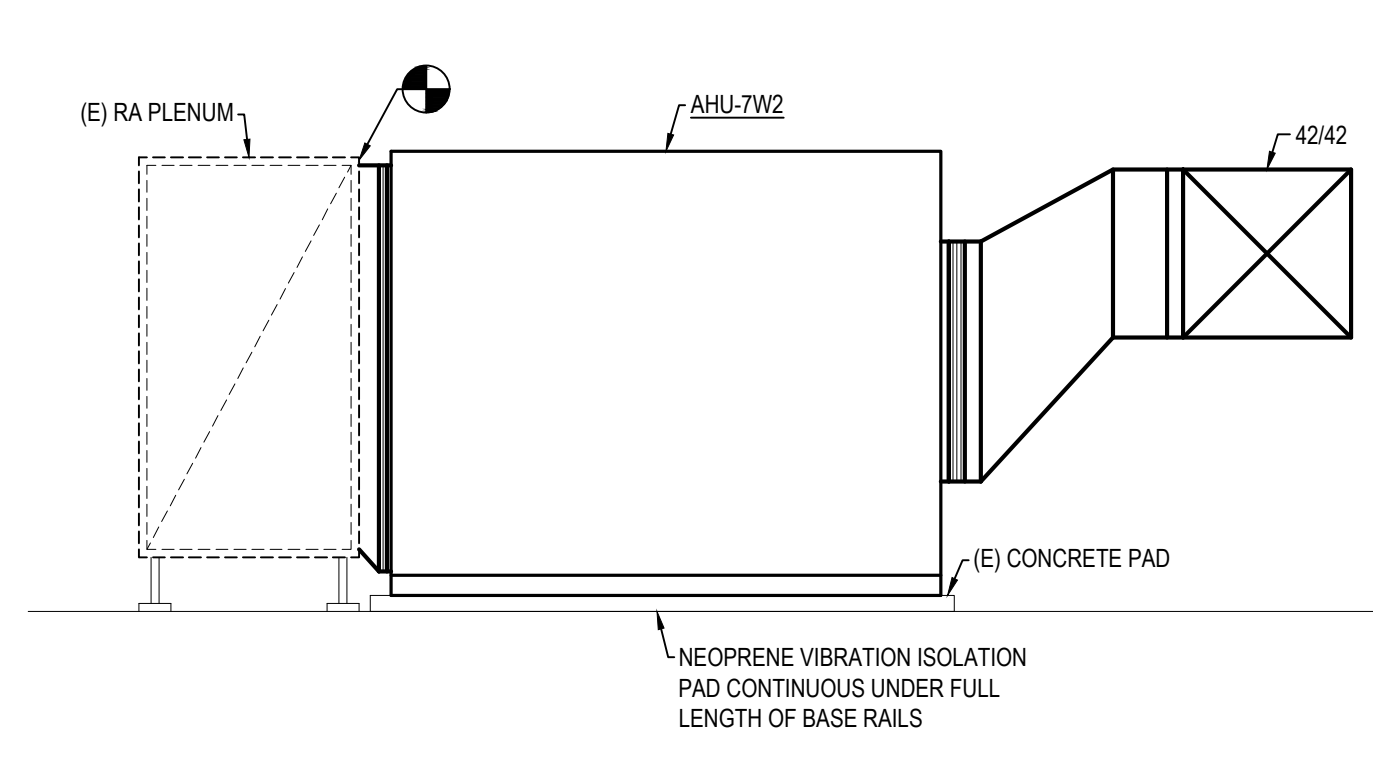
MECHANICAL SECTIONS	NO.	DESCRIPTION	DATE



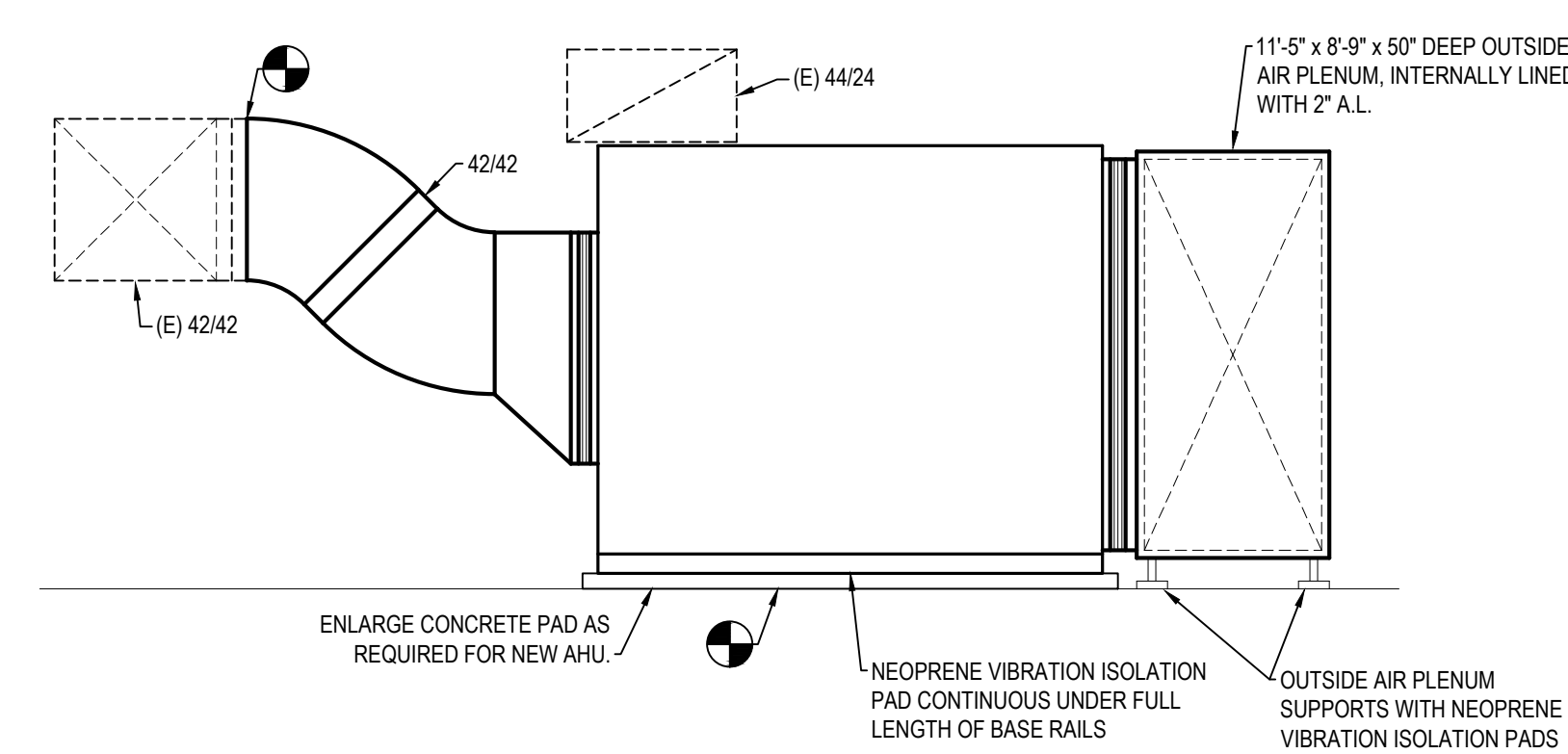
2.15.2023 8:18AM E:\2021\000\000021\010\ssx-1\tarrant county projects\2021\010\042 - Tarr Co Cor Cr AHU Replacement\01 Design & Drafting\05 Mech\M4-1-M4-2.dwg M4-2



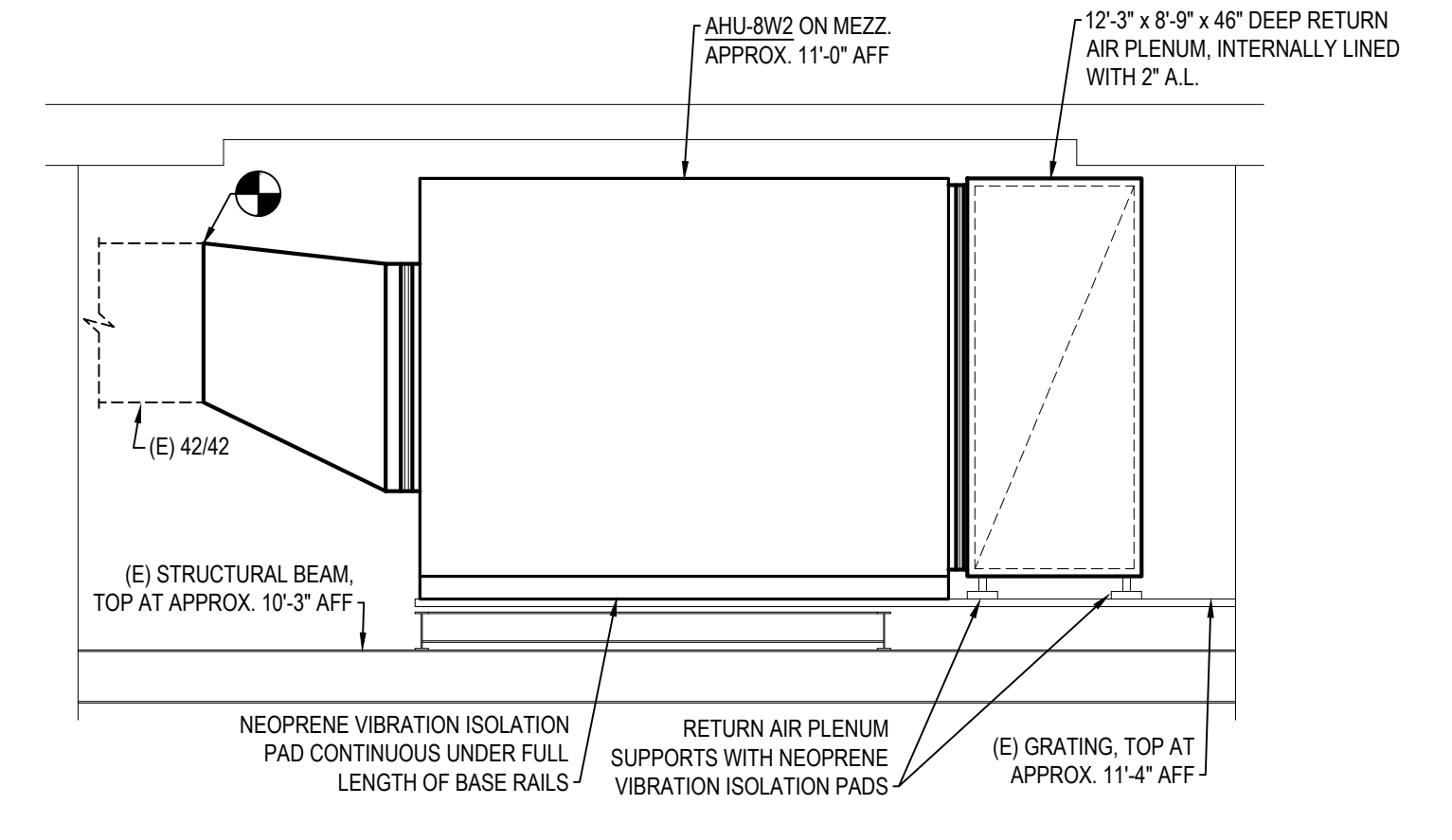
1 AHU-7W1 SECTION
SCALE: 1/4" = 1'-0"



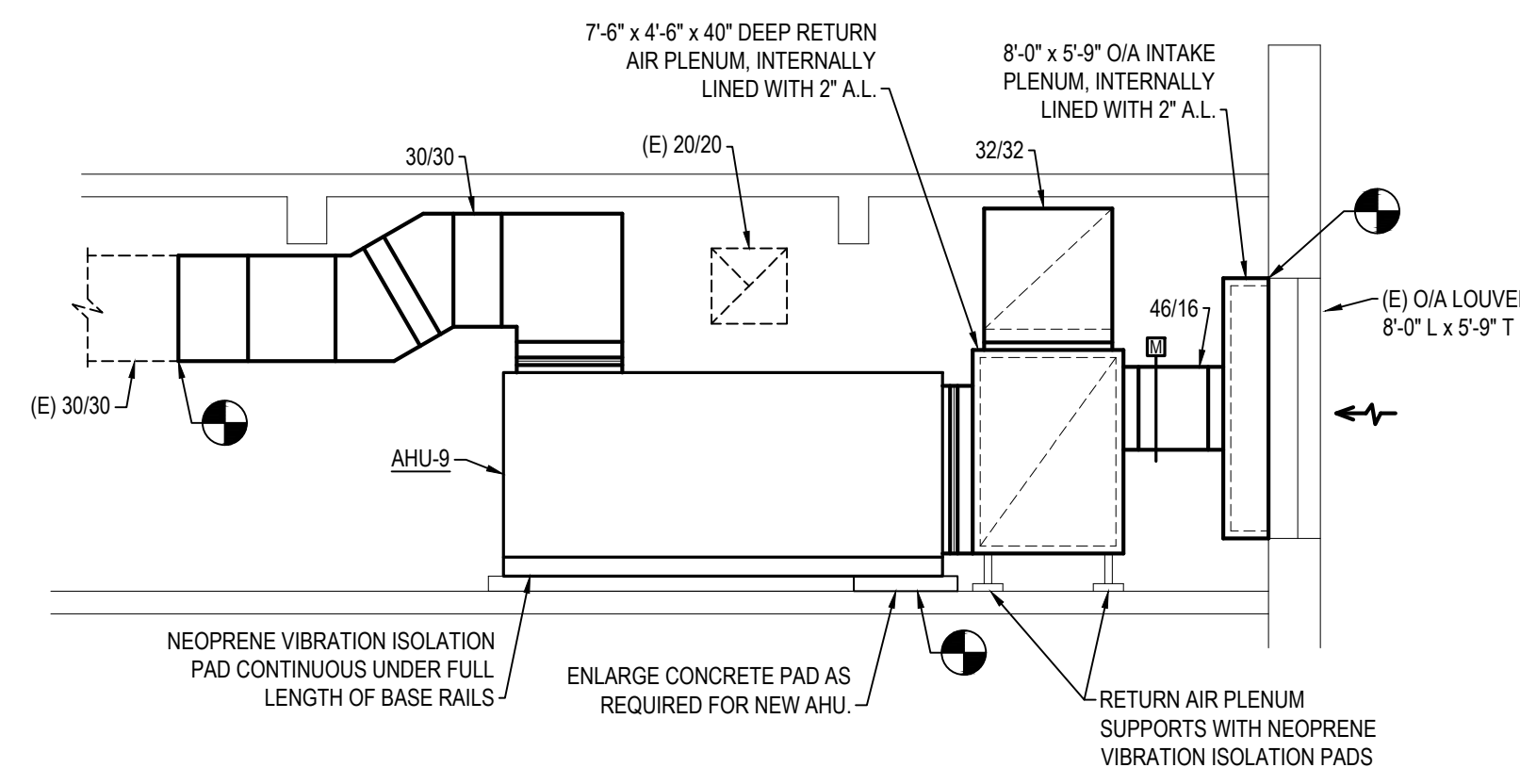
2 AHU-7W2 SECTION
SCALE: 1/4" = 1'-0"



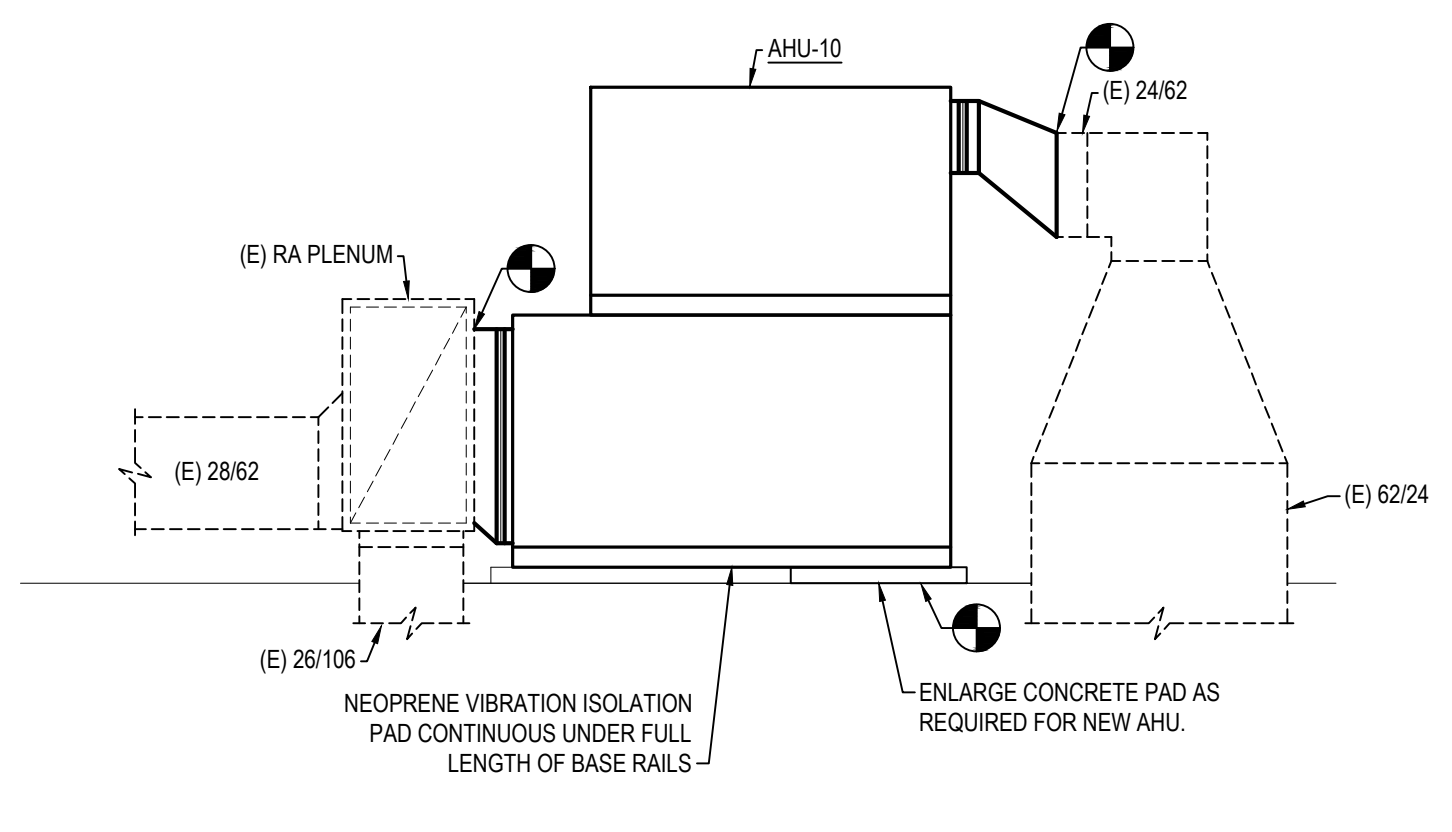
3 AHU-8W1 SECTION
SCALE: 1/4" = 1'-0"



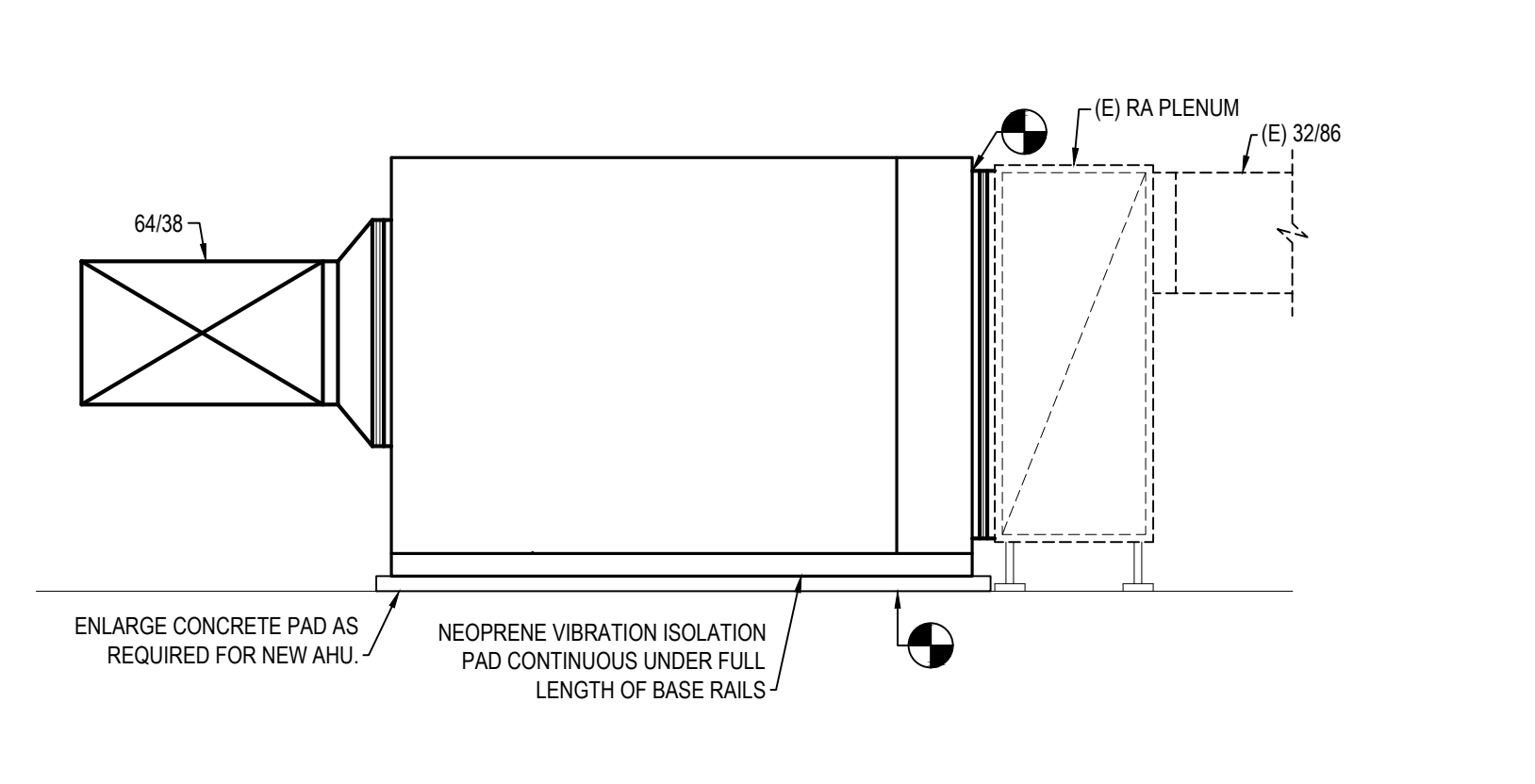
4 AHU-8W2 SECTION
SCALE: 1/4" = 1'-0"



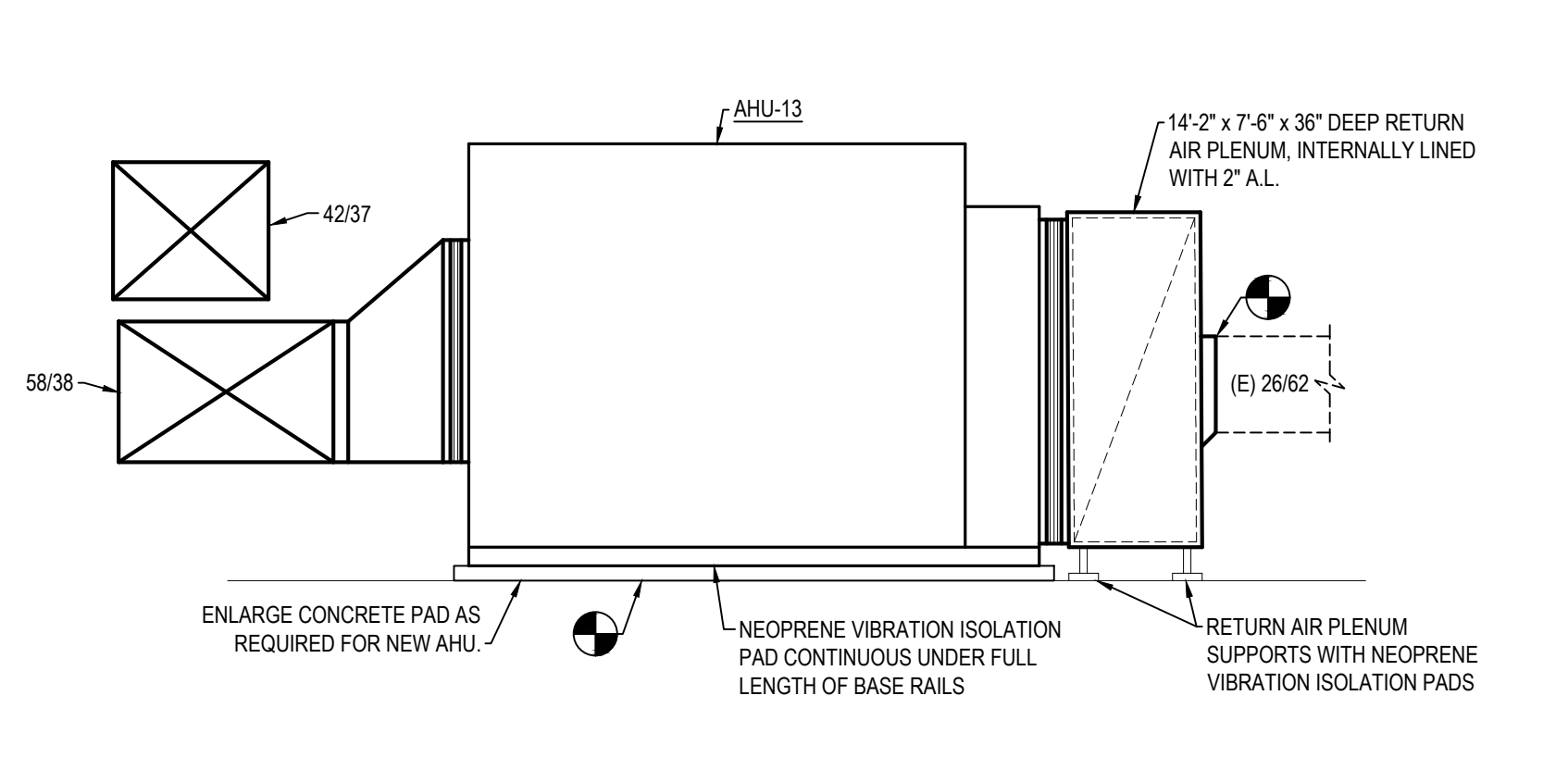
5 AHU-9 SECTION
SCALE: 1/4" = 1'-0"



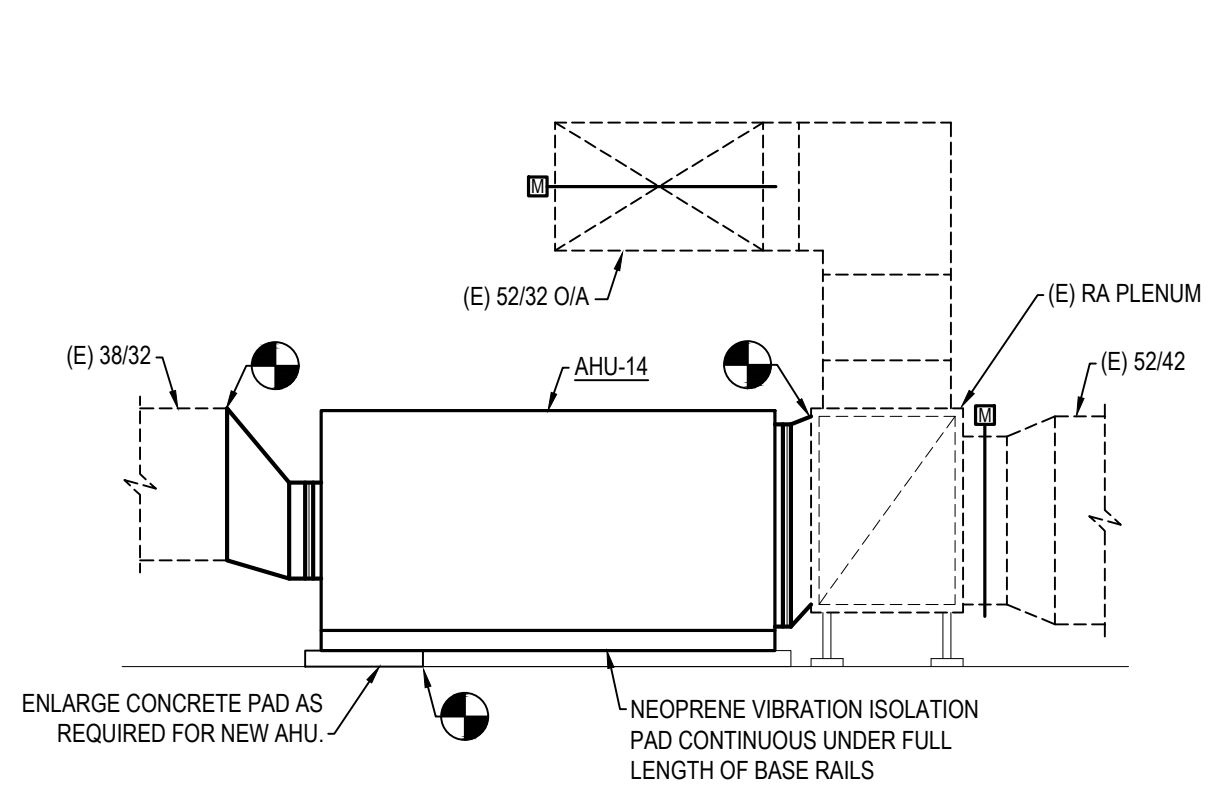
6 AHU-10 SECTION
SCALE: 1/4" = 1'-0"



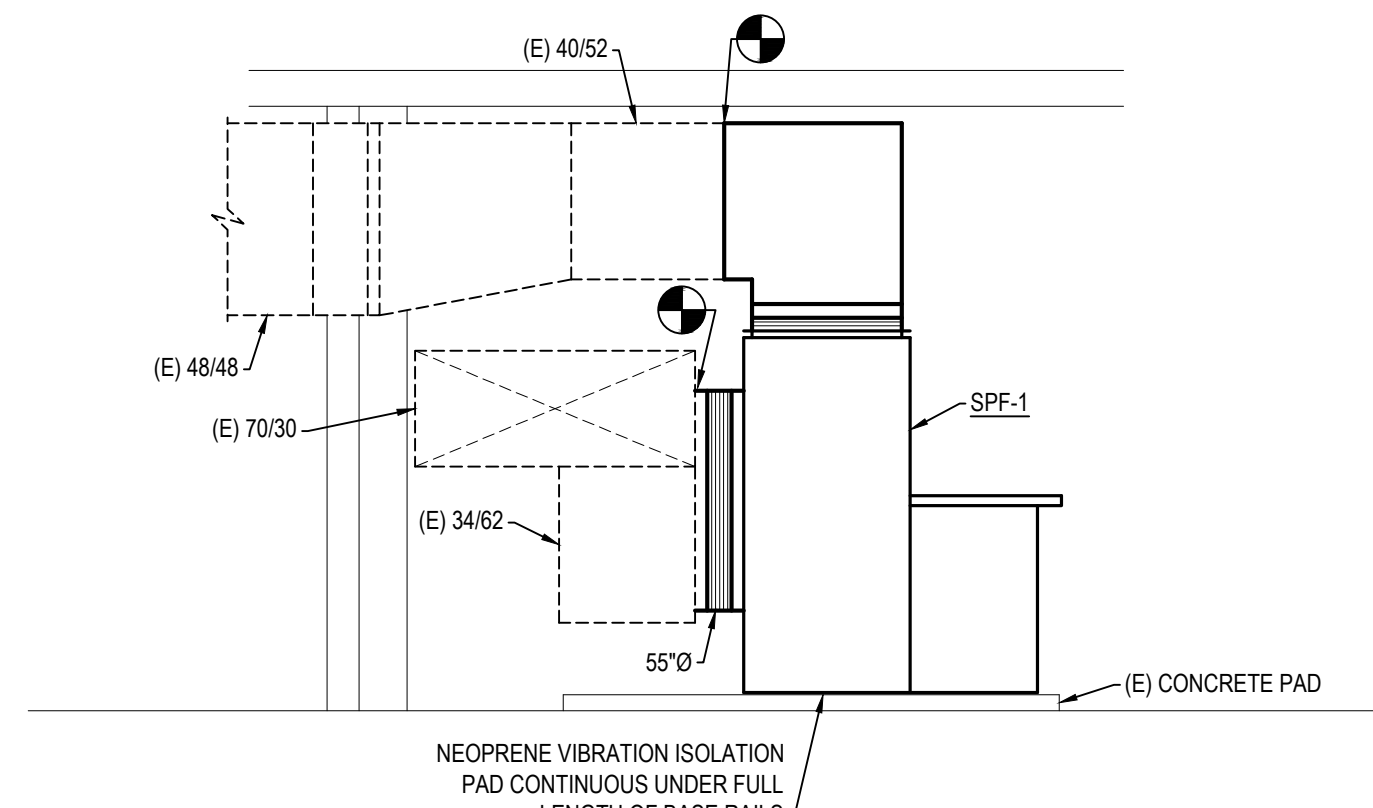
7 AHU-11 SECTION
SCALE: 1/4" = 1'-0"



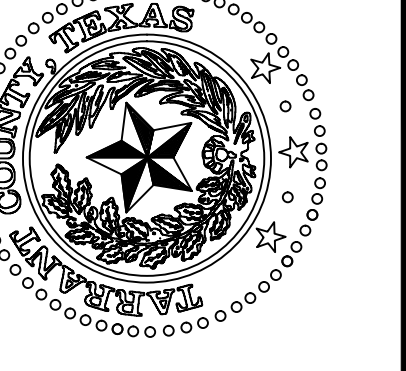
8 AHU-13 SECTION
SCALE: 1/4" = 1'-0"



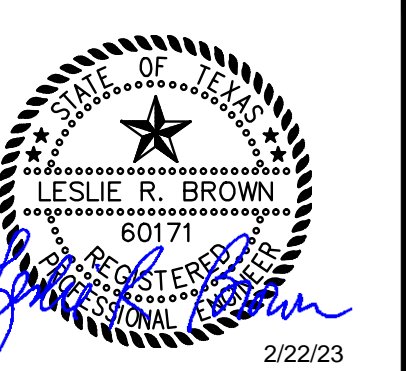
9 AHU-14 SECTION
SCALE: 1/4" = 1'-0"



10 SPF-1 SECTION
SCALE: 1/4" = 1'-0"

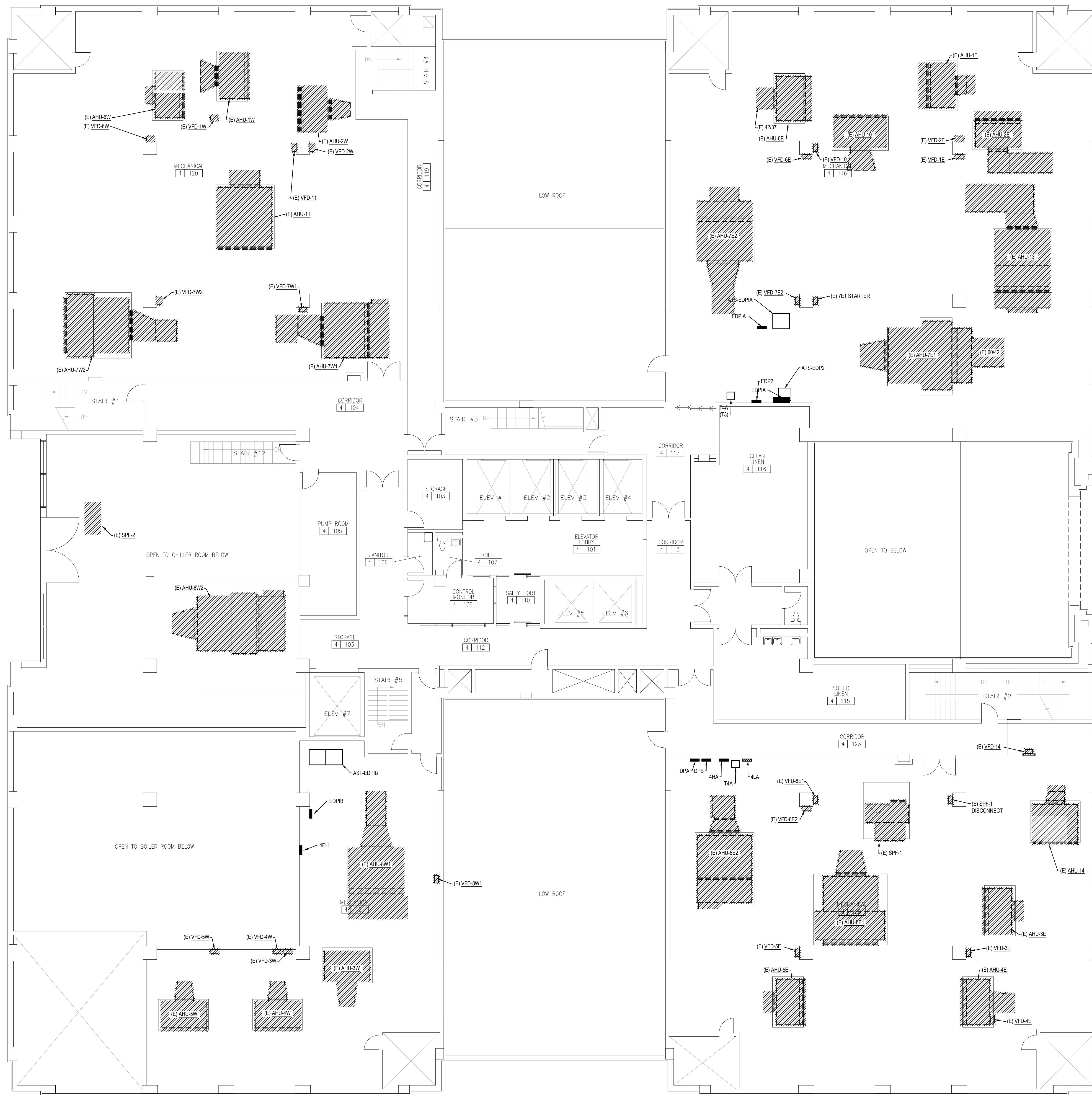


MECHANICAL SECTIONS	NO.	DESCRIPTION	DATE



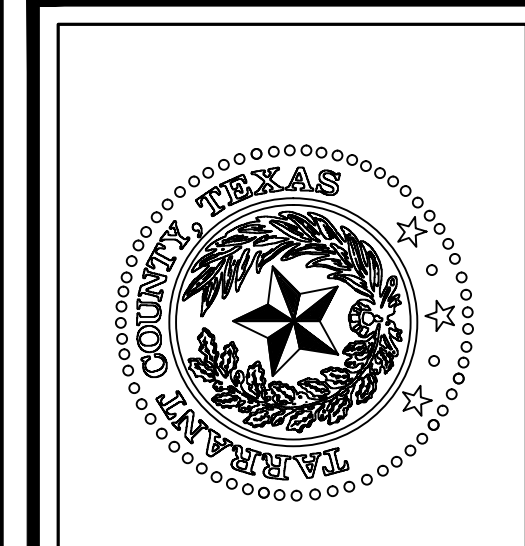
2:15:2023 8:15AM E:\2021\000\00002021\010\axx-Tarrant County Projects\2021\010\042 - Tarrant County AHU Replacement\01 Design & Drafting\05 Mech\M4-1-M4-3.dwg M4-3

2/22/2023 9:33AM E:\2021\000\0002021\010\042 - Tarr Co Corr Ct AHU Replacement\01 Design & Drafting\08 Elec\ED-4.dwg E0-4



- SHEET NOTES:**
- REFER TO MECHANICAL DRAWINGS FOR SCOPE OF HVAC DEMOLITION. REMOVE EXISTING CONDUIT AND CONDUCTORS AS REQUIRED AND PREPARE FOR EXTENSION FROM EXISTING CIRCUIT BREAKER TO NEW RESPECTIVE AHU VFD AND FROM NEW VFD TO AHU. RE-USE CONDUITS AND CONDUCTORS WHERE NOTED ON EQUIPMENT FEEDER SCHEDULE.
 - ALL EXISTING ELECTRICAL EQUIPMENT (EXCLUDING VFD'S) IS EXISTING TO REMAIN.

BIB
BAIRD, HAMPTON & BROWN
 engineering and surveying
 6300 Regline Place, Suite 700 Fort Worth, TX 76116
 mail@bhbc.com • 817.338.1277 • bhbc.com
 TDP Firm #44, #1011066, 10011062, #0194146



**TARRANT COUNTY CORRECTIONS CENTER
 AHU REPLACEMENT PROJECT**
 100 N LAMAR STREET FORT WORTH, TEXAS 76102

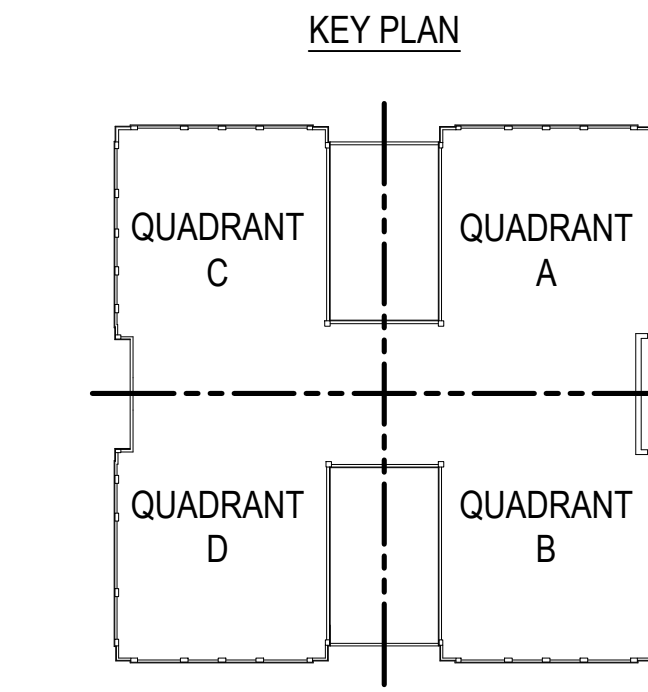
**LEVEL 4 FLOOR PLAN -
 ELECTRICAL DEMOLITION**

NO.	DESCRIPTION	DATE

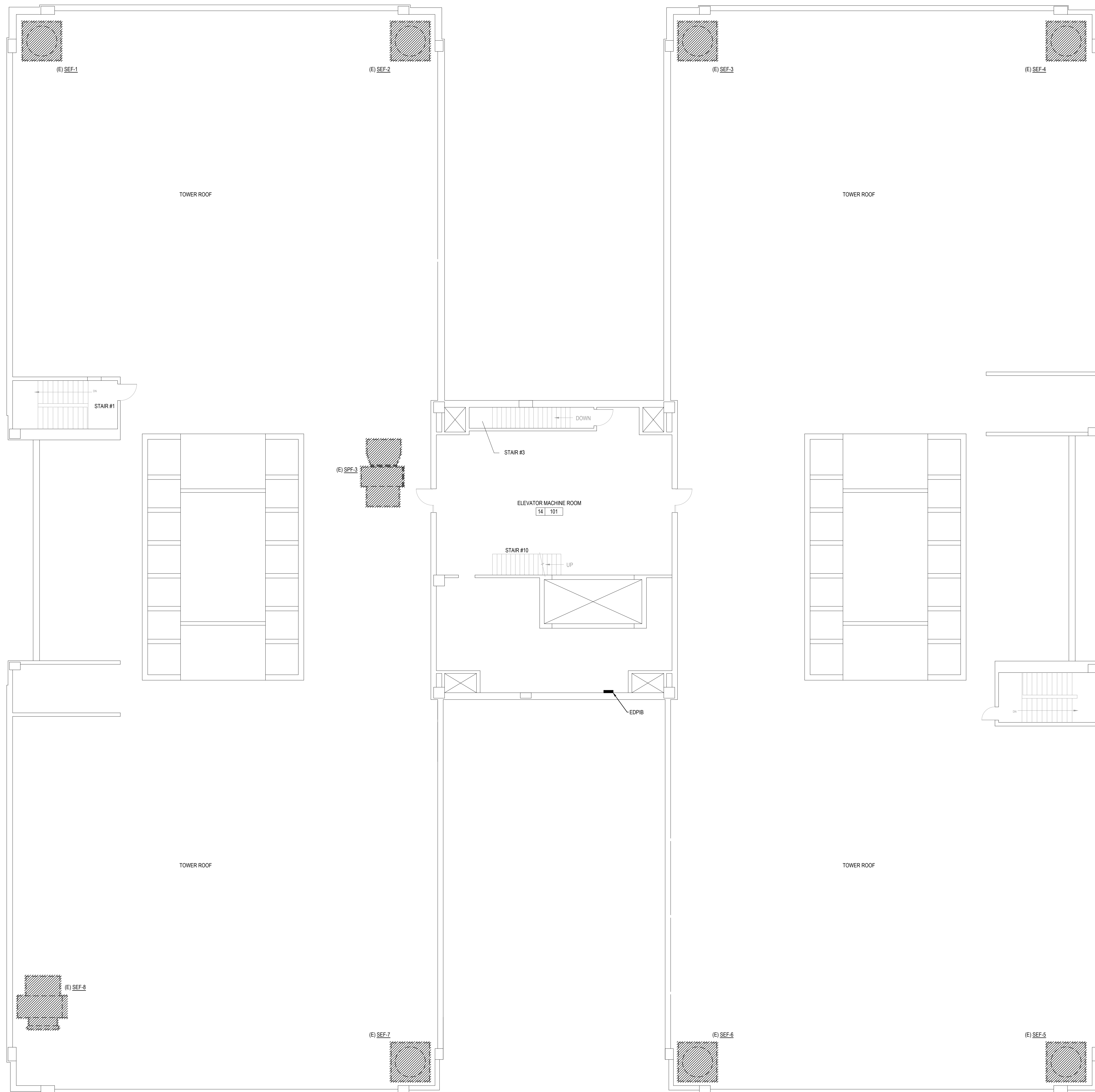


PROJECT NUMBER: 2021.010.042
 DATE: 02/15/2023 DRAWN BY: EM
 DESIGN BY: PM CHECKED BY: PM
 SHEET
E0-4
 SHEET 1 OF 13 E SHEETS TOTAL

LEVEL 4 FLOOR PLAN - ELECTRICAL DEMOLITION
 SCALE: 1/8" = 1'-0"

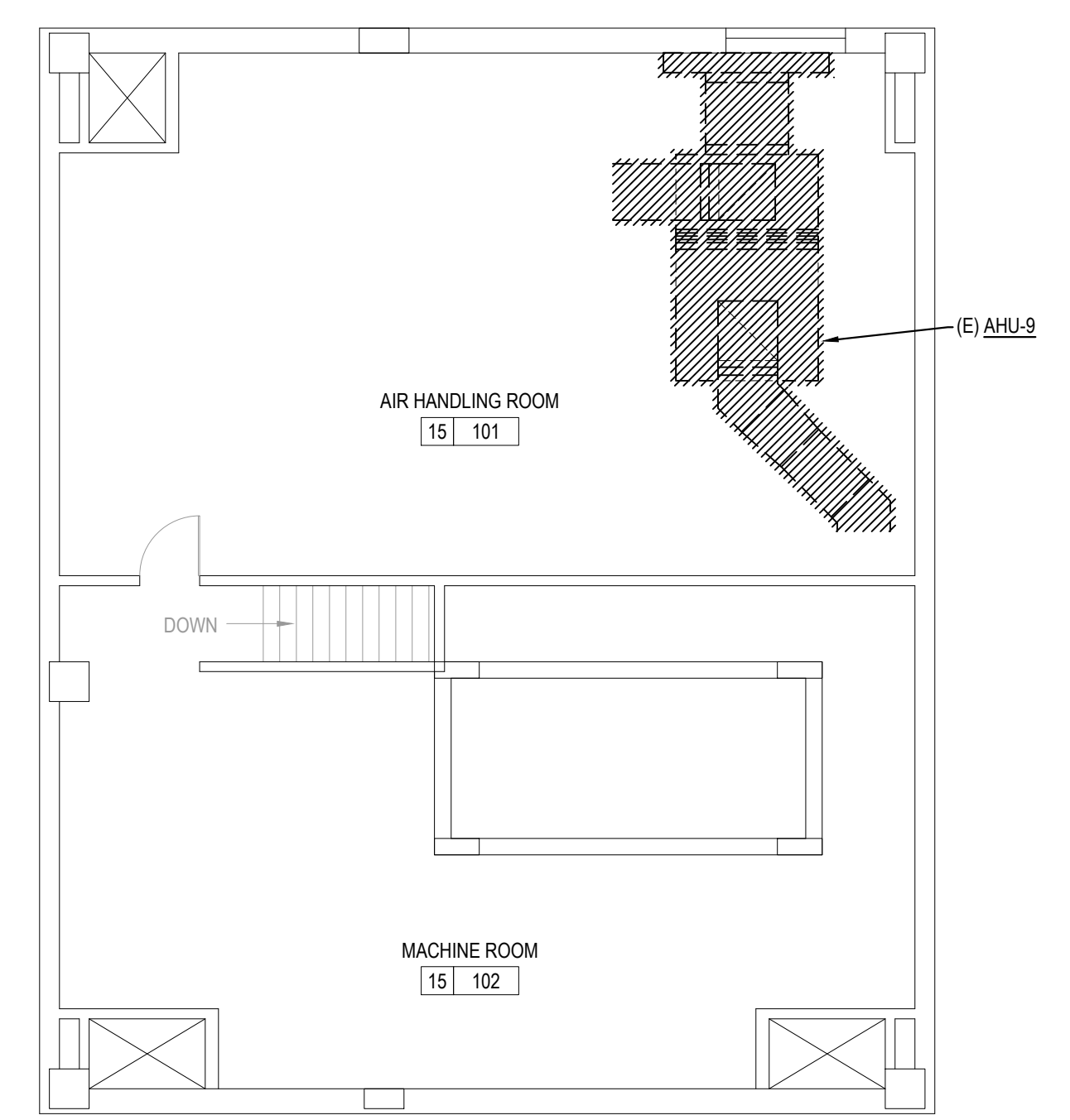


2/22/2023 9:33AM E:\2021\000\0002021\010.dwg - Tarrant County Projects\2021\010.dwg - Tarrant County AHU Replacement\01 Design & Drafting\08 Elec\ED-10.dwg ED-10

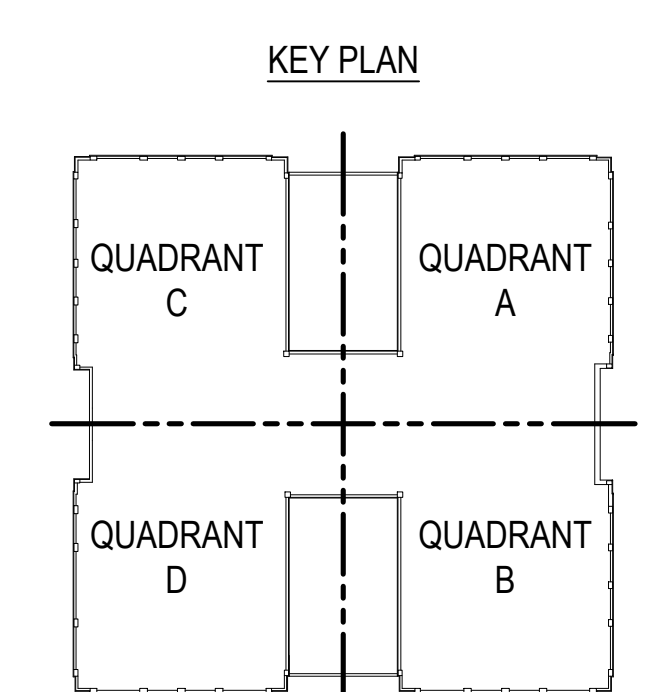


1 ROOF PLAN - ELECTRICAL DEMOLITION
SCALE: 1/8" = 1'-0"

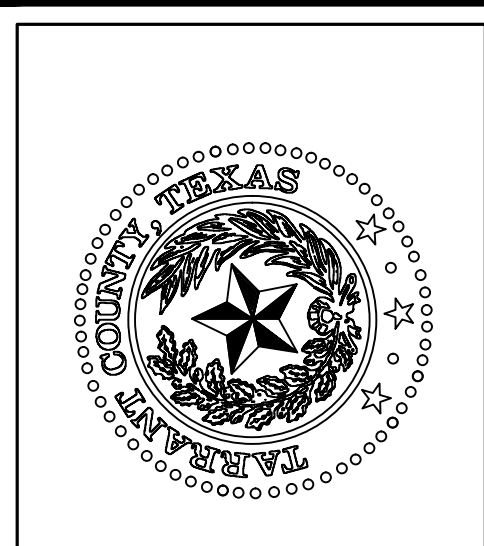
SHEET NOTES:
 1. REFER TO MECHANICAL DRAWINGS FOR SCOPE OF HVAC DEMOLITION. RE-USE EXISTING CIRCUIT BREAKERS IN PANELBOARD EDPIB AND EXISTING FEEDERS FROM EDPIB TO EACH SMOKE EXHAUST FAN AND PREPARE FOR RECONNECTION.
 2. ALL EXISTING ELECTRICAL EQUIPMENT (EXCLUDING VFD'S) IS EXISTING TO REMAIN.



2 PENTHOUSE PLAN - ELECTRICAL DEMOLITION
SCALE: 1/8" = 1'-0"



BIB
BAIRD, HAMPTON & BROWN
 engineering and surveying
 6300 Regatta Place, Suite 700 Fort Worth, TX 76116
 mhb@bhbc.com • 817.338.1277 • bhbc.com
 TPE Firm #44, #1011066, 10011062, #1019446



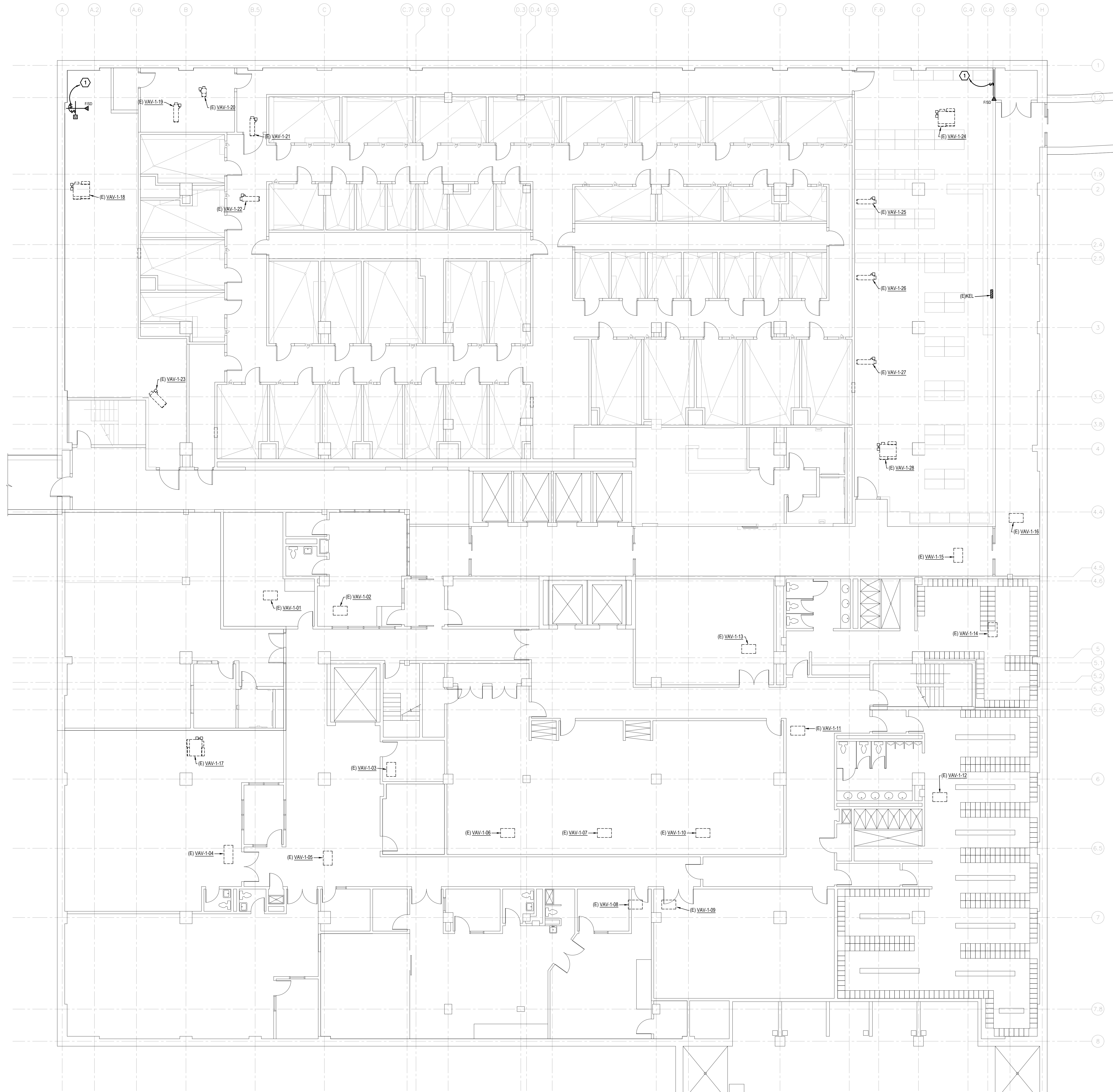
TARRANT COUNTY CORRECTIONS CENTER
 AHU REPLACEMENT PROJECT
 100 N LAMAR STREET FORT WORTH, TEXAS 76102

ROOF AND PENTHOUSE PLAN - ELECTRICAL DEMOLITION		DATE
NO.	DESCRIPTION	DATE



PROJECT NUMBER: 2021.010.042
 DATE: 02/15/2023 DRAWN BY: EM
 DESIGN BY: PM CHECKED BY: PM
 SHEET
E0-10
 SHEET 2 OF 13 E SHEETS TOTAL

2/22/2023 9:23AM E:\2021\000\000027\010.dwg - Tarrant County Project\2021\010\042 - Tarrant County AHU Replacement\01 Design & Drafting\08 Elec\E1-1.dwg E:1-1



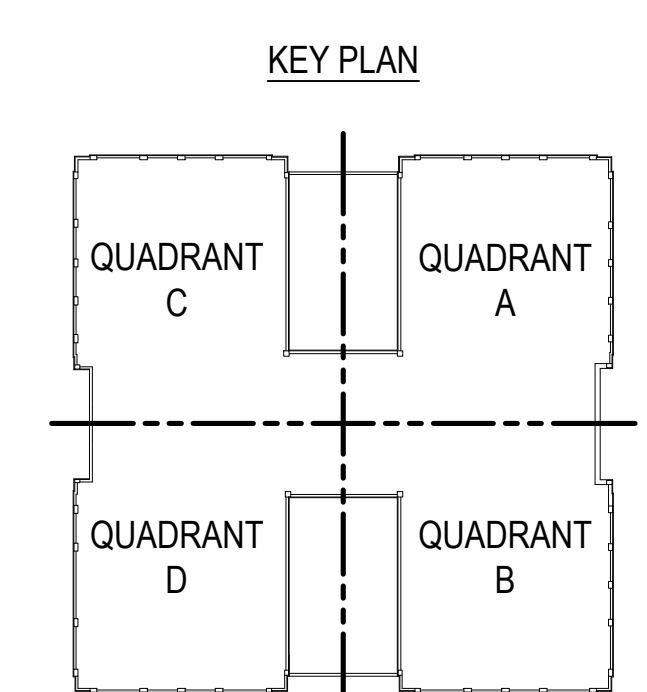
LEVEL 1 FLOOR PLAN - ELECTRICAL
 SCALE: 1/8" = 1'-0"

NOTES BY SYMBOL: "Ⓢ"

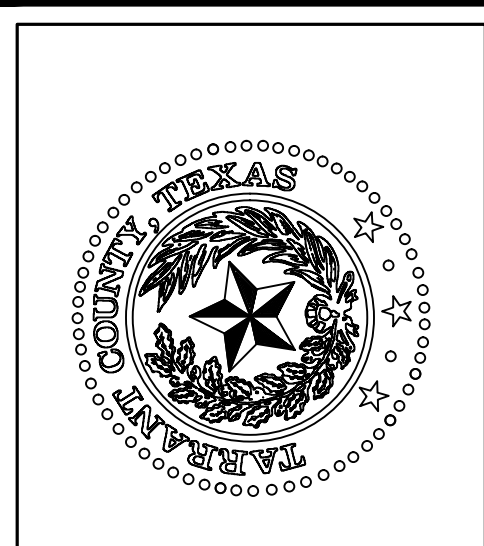
- EXTEND TO SPARE 20A/1 CIRCUIT BREAKER IN PANEL EXISTING PANEL KEL (PROVIDE 20A/1P SPARE CIRCUIT BREAKER TO MATCH EXISTING IF REQUIRED) OR TO OTHER NEARBY 208/120V PANELBOARD POWERED DOWNSTREAM OF THE GENERATOR. COORDINATE ROUTING WITH OWNER.

SHEET NOTES:

- CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.
- CONNECT TO SAME CIRCUIT BREAKER AS OTHER DAMPERS FOR THIS LEVEL IF POWERING DAMPERS FROM SAME PANELBOARD.



BIB
BAIRD, HAMPTON & BROWN
 engineering and surveying
 6300 Regatta Place, Suite 700 Fort Worth, TX 76116
 mail@bhbc.com • 817.338.1277 • bhbc.com
 TBP Firm #44, #1011060, 1001102, #0194146



**TARRANT COUNTY CORRECTIONS CENTER
 AHU REPLACEMENT PROJECT**
 100 N LAMAR STREET FORT WORTH, TEXAS 76102

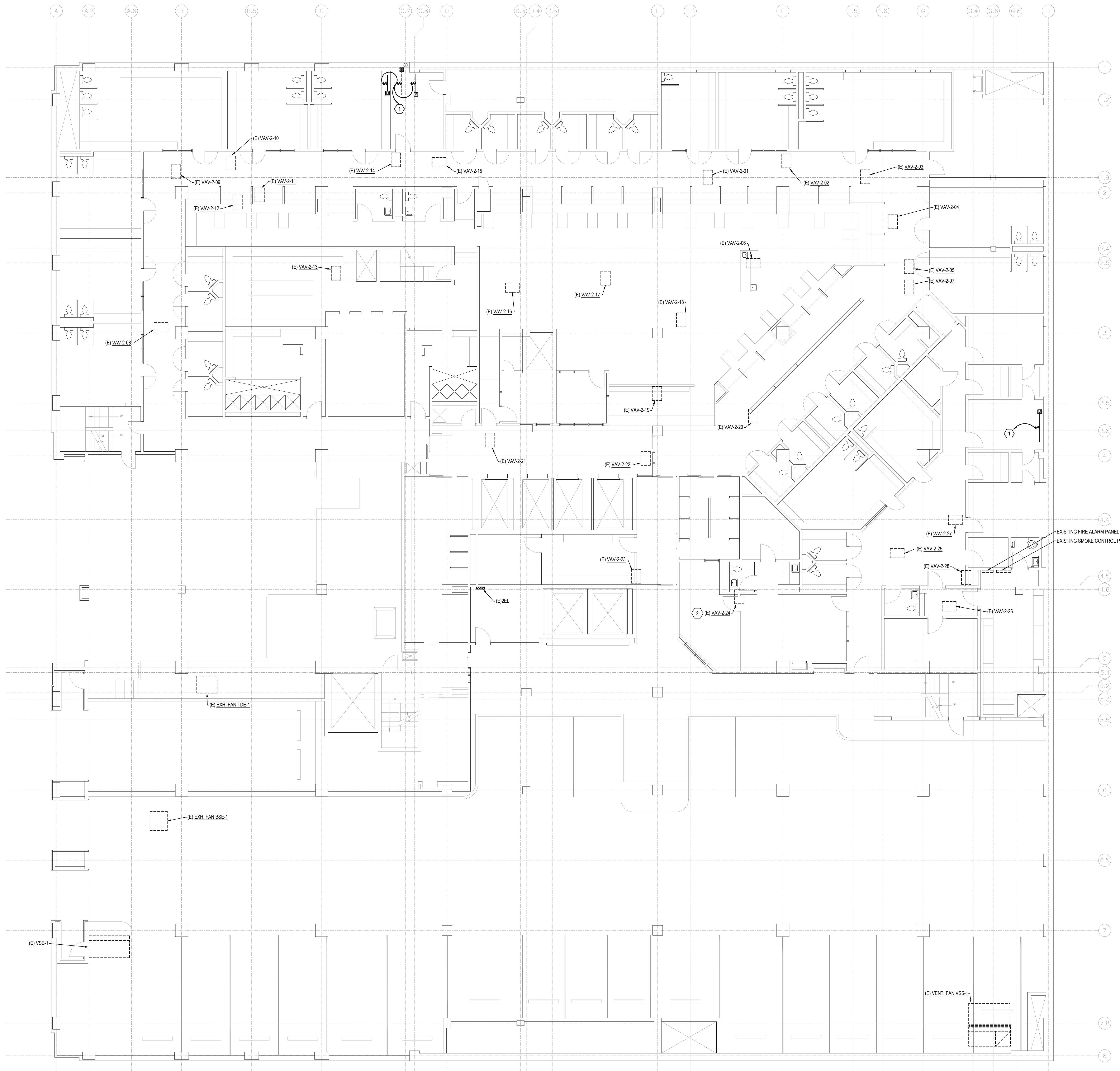
LEVEL 1 FLOOR PLAN - ELECTRICAL

NO.	DESCRIPTION	DATE



PROJECT NUMBER: 2021.010.042
 DATE: 02/15/2023 DRAWN BY: PM
 DESIGN BY: PM CHECKED BY: LRB
SHEET E1-1
 SHEET 3 OF 13 E SHEETS TOTAL

2/22/2023 9:23AM E:\2021\000\00002021\010\042 - Tarr Co. Corr. Ctr. AHU Replacement\01 Design & Drafting\08 Elec\E1-2.dwg E1-2

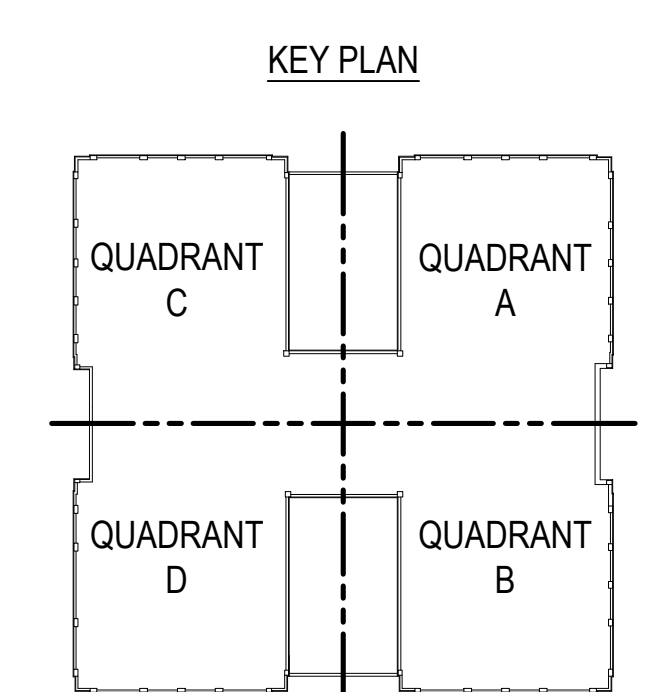


NOTES BY SYMBOL: "4"

1. EXTEND TO SPARE 20A/1 CIRCUIT BREAKER IN PANEL EXISTING PANEL 2EL (PROVIDE 20A/1P SPARE CIRCUIT BREAKER TO MATCH EXISTING IF REQUIRED) OR TO OTHER NEARBY 208/120V PANELBOARD POWERED DOWNSTREAM OF THE GENERATOR. COORDINATE ROUTING WITH OWNER. CONNECT TO SAME CIRCUIT BREAKER AS OTHER DAMPERS FOR THIS LEVEL IF POWERING DAMPERS FROM SAME PANELBOARD.

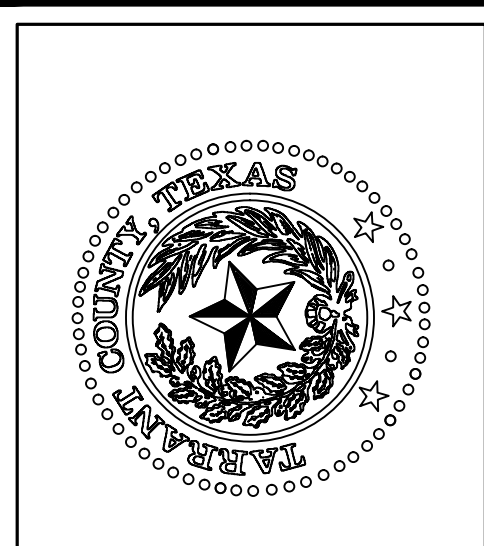
SHEET NOTES:

1. CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.



LEVEL 2 FLOOR PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

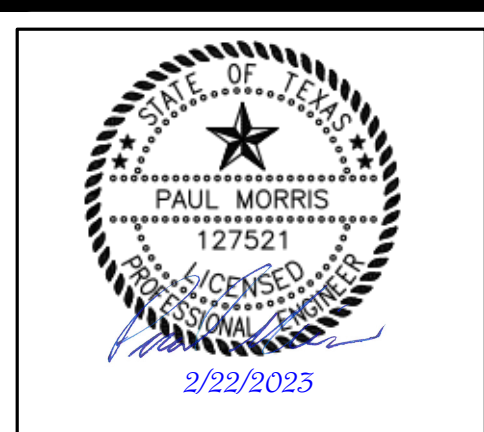
BIB
BAIRD, HAMPTON & BROWN
engineering and surveying
6300 Regatta Place, Suite 700 Fort Worth, TX 76116
mhb@bhbc.com • 817.338.1277 • bhbc.com
TDP Firm #44, #1011042, #0119146



**TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT**
100 N LAMAR STREET FORT WORTH, TEXAS 76102

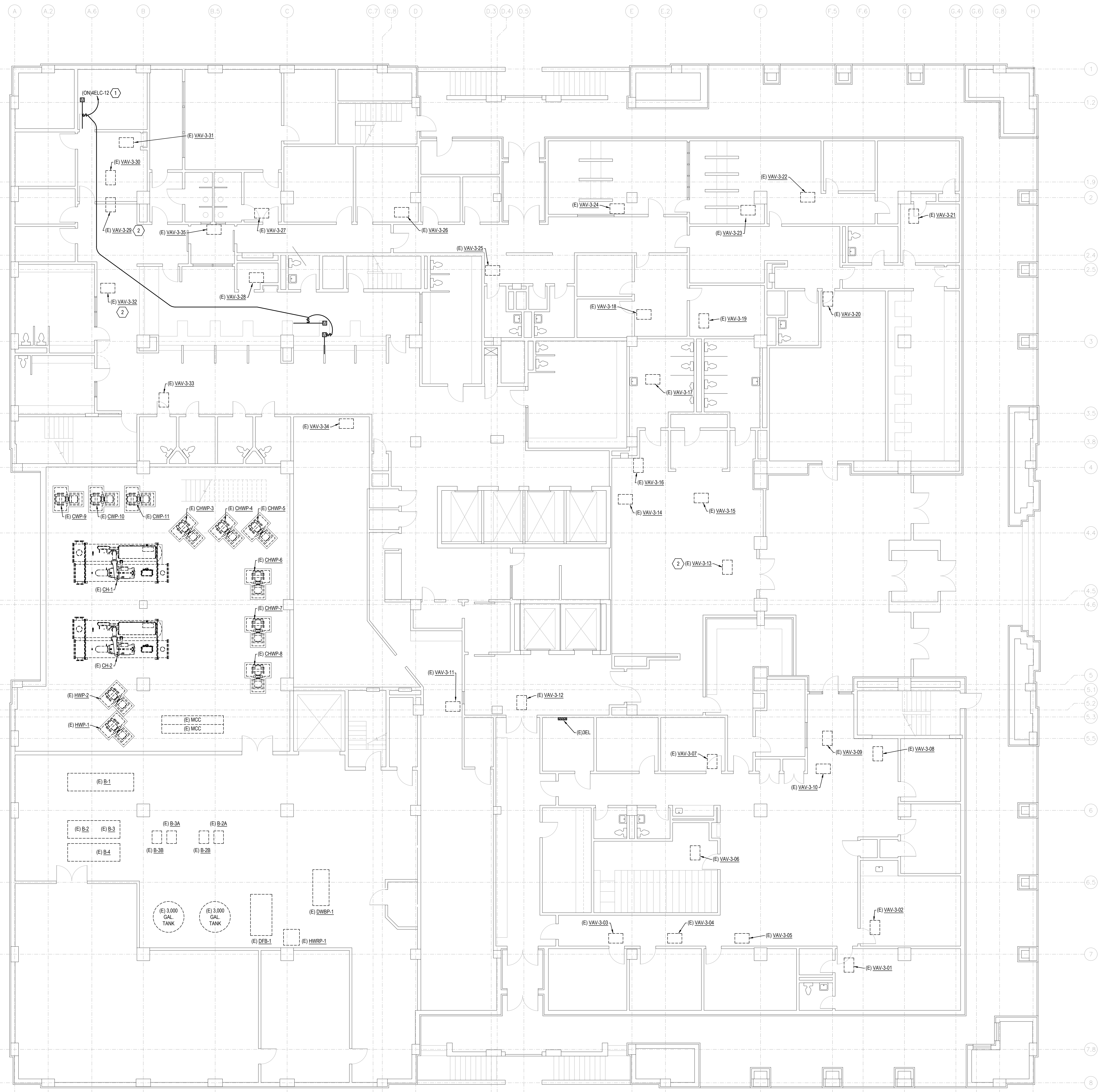
LEVEL 2 FLOOR PLAN - ELECTRICAL

NO.	DESCRIPTION	DATE



PROJECT NUMBER: 2021.010.042
DATE: 02/15/2023 DRAWN BY: PM
DESIGN BY: PM CHECKED BY: LRB

SHEET
E1-2
SHEET 4 OF 13 E SHEETS TOTAL



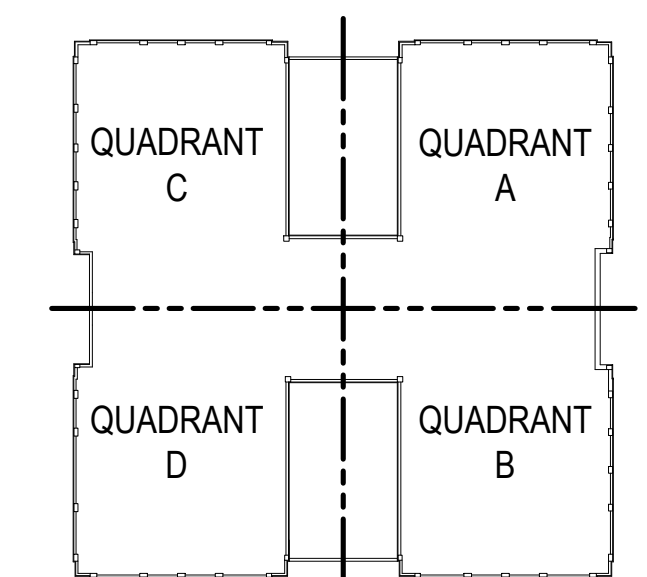
NOTES BY SYMBOL: "4"

1. EXTEND UP THROUGH FLOOR INTO AHU ROOM ABOVE AND OVERHEAD TO PANEL 4E.C. COORDINATE PENETRATION LOCATION WITH MECHANICAL CONTRACTOR AND OWNER PRIOR TO CORING.

SHEET NOTES:

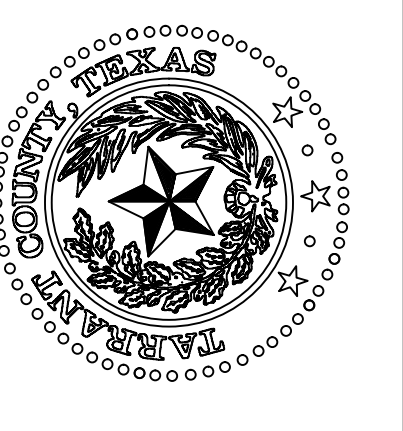
1. CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.

KEY PLAN



N
1
E-1-3
LEVEL 3 FLOOR PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

BIB
BAIRD, HAMPTON & BROWN
engineering and surveying
6300 Regline Place, Suite 700 Fort Worth, TX 76116
mhb@bhbc.com • 817.338.1277 • bhbc.com
TDE Firm #44, #1011042, #019146



TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT

100 N LAMAR STREET FORT WORTH, TEXAS 76102

LEVEL 3 FLOOR PLAN -
ELECTRICAL

NO.	DESCRIPTION	DATE

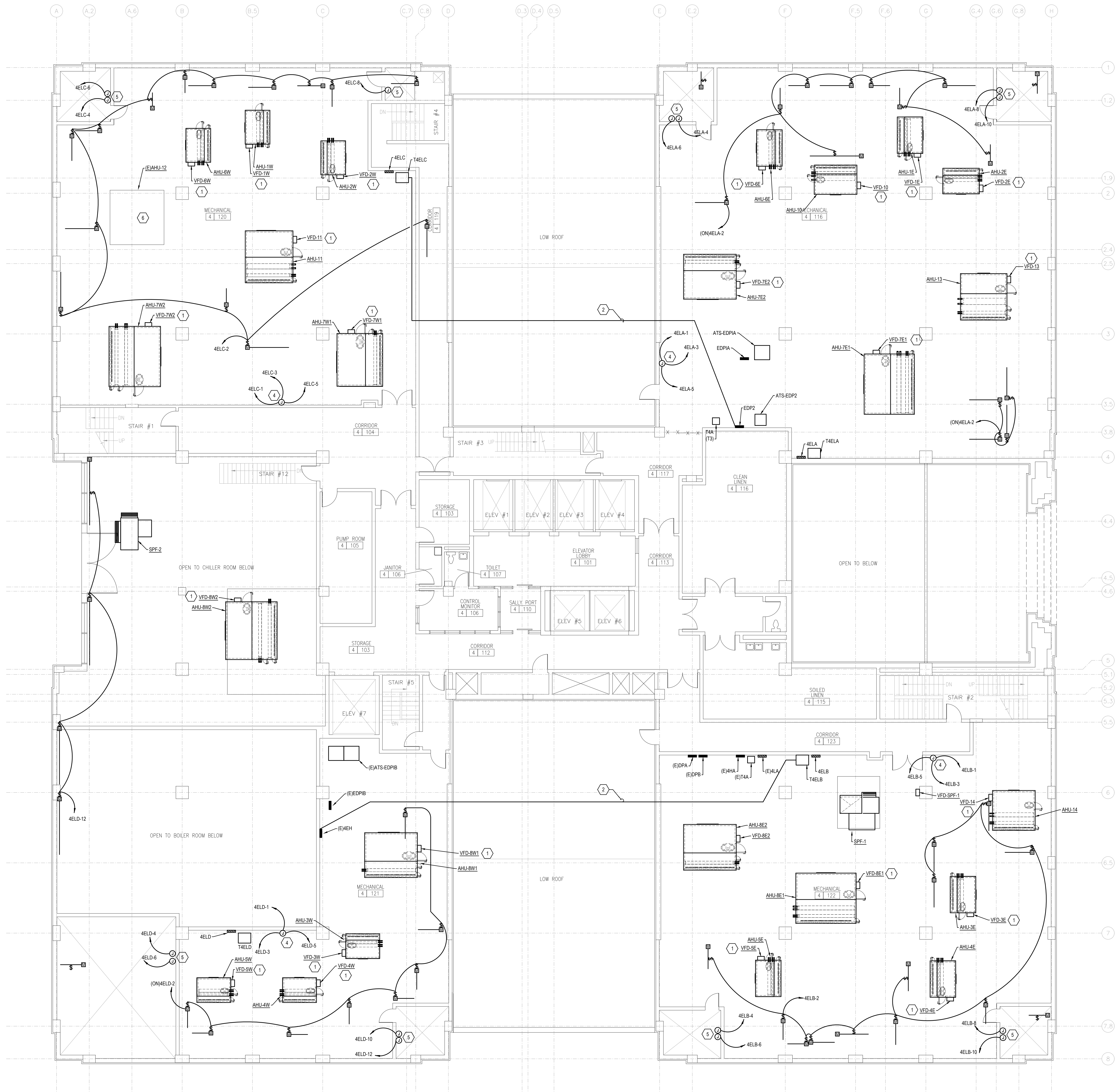


PROJECT NUMBER: 2021.010.042
DATE: 02/15/2023 DRAWN BY: PM
DESIGN BY: PM CHECKED BY: LRB

SHEET
E1-3
SHEET 5 OF 13 E SHEETS TOTAL

2/22/2023 9:24AM E:\2021\000\000027\010.dwg - Tarrant County Corrections Center AHU Replacement\01 Design & Drafting\08 Elec\E-1-3.dwg E-1-3

2/22/2023 10:53AM E:\2021\000\0002021.010\000 - Tarrant County Project\2021.010.042 - Tarrant Co Corr Ctr AHU Replacement\01 Design & Challenge\08 Elec\E1-4.dwg 3/24/23



NOTES BY SYMBOL: "Ⓢ"

- EXTEND FEEDER FROM EXISTING CIRCUIT BREAKER IN PANELBOARD UNLESS OTHERWISE NOTED TO NEW VFD LOCATION AND FROM VFD TO AHU. REFER TO EQUIPMENT FEEDER SCHEDULE ON THIS SHEET FOR FEEDER SIZES.
- EXTEND FEEDER OVERHEAD THROUGH MECHANICAL ROOM THROUGH WALL TO EXTERIOR AND DOWN WALL THEN ACROSS THE ROOF AND UP EXTERIOR WALL AND ROUTED AS SHOWN TO TRANSFORMER.
- JUNCTION BOX FOR POWER TO MOTORIZED DAMPERS. COORDINATE WITH DAMPER INSTALLER FOR INSTALLATION OF CONDUCTORS UP SHAFT AND ACROSS ACCESSIBLE CEILING SPACE OF LEVELS ABOVE WITH PATHWAYS TO INNER SHAFT.
- JUNCTION BOX FOR POWER TO NEW CONTROL PANELS. VERIFY EXACT LOCATION AND REQUIREMENTS WITH OWNER (CONTROLS PROVIDED UNDER SEPARATE CONTRACT).
- JUNCTION BOXES FOR POWER TO MOTORIZED DAMPERS IN SHAFT: EXTEND POWER TO JUNCTION BOX AS SHOWN. CONTROL'S CONTRACTOR UNDER SEPARATE CONTRACT TO EXTEND POWER TO EACH MOTORIZED DAMPER UP AND DOWN THE SHAFT.
- EXTEND 20A CIRCUIT FOR NEW UV LIGHT IN AHU-12 TO NEARBY RECEPTACLE CIRCUIT IN THIS ROOM.

SHEET NOTES:

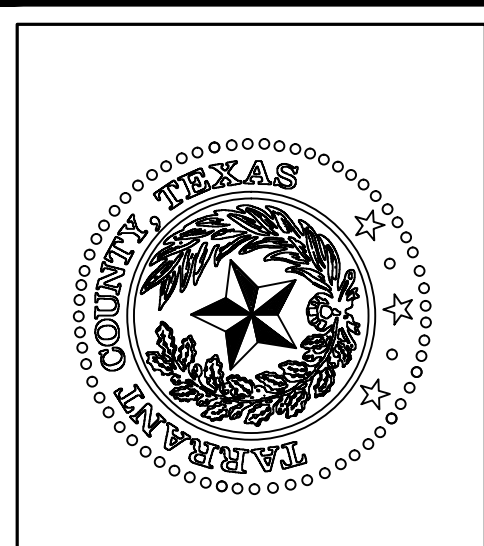
- ALL EXISTING ELECTRICAL PANELBOARDS ARE EXISTING TO REMAIN. NOT ALL PANELBOARDS ARE SHOWN ON THE DRAWINGS.
- REPLACE EXISTING FEEDER TO EACH SPF ON THIS LEVEL WITH #10 & #100 THRU EXISTING CONDUIT.

1
LEVEL 4 FLOOR PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

BIB

BAIRD, HAMPTON & BROWN
engineering and surveying

6300 Regline Place, Suite 700 Fort Worth, TX 76116
mail@bahbc.com • 817.338.1277 • bahbc.com
TPE Firm #44, #1011066, 10011062, #0194146



TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT

100 N LAMAR STREET FORT WORTH, TEXAS 76102

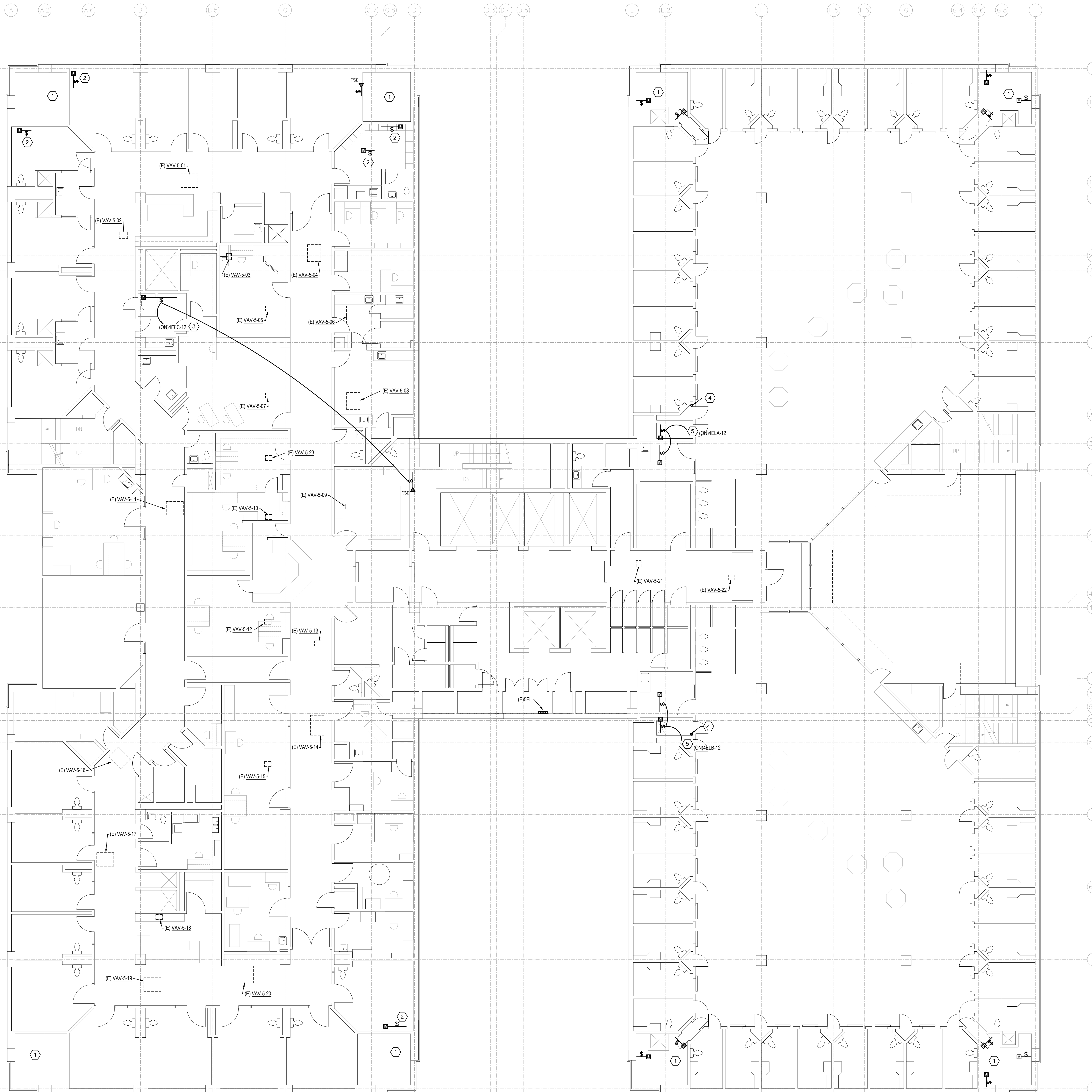
LEVEL 4 FLOOR PLAN -
ELECTRICAL

NO.	DESCRIPTION	DATE



PROJECT NUMBER: 2021.010.042
DATE: 02/15/2023 DRAWN BY: EM
DESIGN BY: PM CHECKED BY: PM

SHEET
E1-4
SHEET 6 OF 13 E SHEETS TOTAL



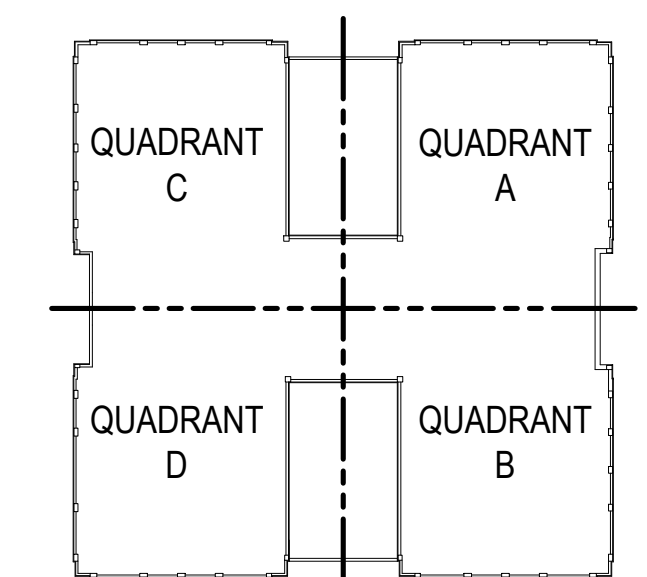
NOTES BY SYMBOL: "4"

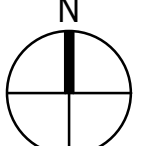
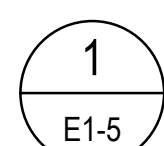
- POWER TO MOTORIZED DAMPERS IN THIS SHAFT IS PROVIDED UNDER SEPARATE CONTRACT FROM THE ASSOCIATED JUNCTION BOXES ON LEVEL 4 INDICATED ON SHEET E-14.
- POWER TO THIS MOTORIZED DAMPER TO BE PROVIDED BY CONTROLS CONTRACTOR UNDER SEPARATE CONTRACT FROM ADJACENT VERTICAL SHAFT DAMPER CIRCUIT.
- EXTEND DOWN THROUGH FLOOR INTO AHU ROOM BELOW AND OVERHEAD TO PANEL JELC. COORDINATE PENETRATION LOCATION WITH MECHANICAL CONTRACTOR AND OWNER PRIOR TO CORING.
- PROVIDE SLEEVE THROUGH FLOOR TO CEILING SPACE BELOW FOR POWER TO MOTORIZED DAMPERS IN THIS AREA ON THIS LEVEL AND LEVELS ABOVE (SLEEVES FOR THOSE LEVELS INDICATED ON RESPECTIVE PLANS). COORDINATE EXACT CORE LOCATION WITH EXISTING CONDITIONS AND MECHANICAL CONTRACTOR AND OWNER PRIOR TO CORING.
- EXTEND CIRCUIT THROUGH NEAREST SLEEVE TO FLOOR BELOW (REFER TO NOTE BY SYMBOL 4).

SHEET NOTES:

- CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.
- REMOVE AND REPLACE EXISTING SECURITY CEMENT PLASTER CEILING AS REQUIRED TO ACCESS DAMPERS. REPLACE EXISTING ACCESS DOOR WITH NEW ACCESS DOOR. MATCH EXISTING SIZE OR INCREASE AS REQUIRED.

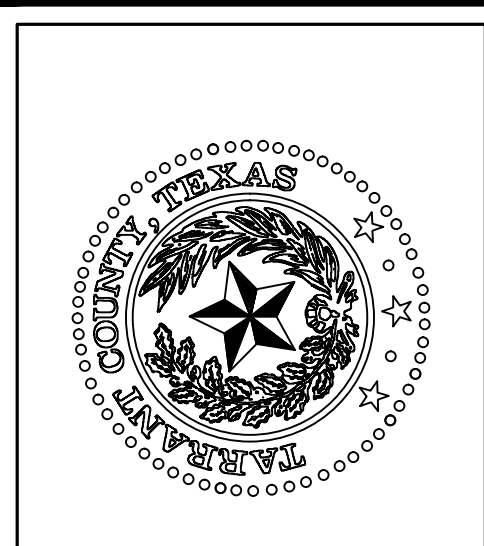
KEY PLAN





LEVEL 5 FLOOR PLAN - ELECTRICAL
 SCALE: 1/8" = 1'-0"

2/22/2023 9:24AM E:\2021\000\00002021\010\042 - Tarr Co. Cor. Ct. AHU Replacement\01 Design & Drafting\08 Elec\E-15.dwg E-15

BIB
BAIRD, HAMPTON & BROWN
 engineering and surveying
 6300 Regline Place, Suite 700 Fort Worth, TX 76116
 mail@bhbc.com • 817.338.1277 • bhbc.com
 TPE Firm #44, #1031366, 1001102, #1019446



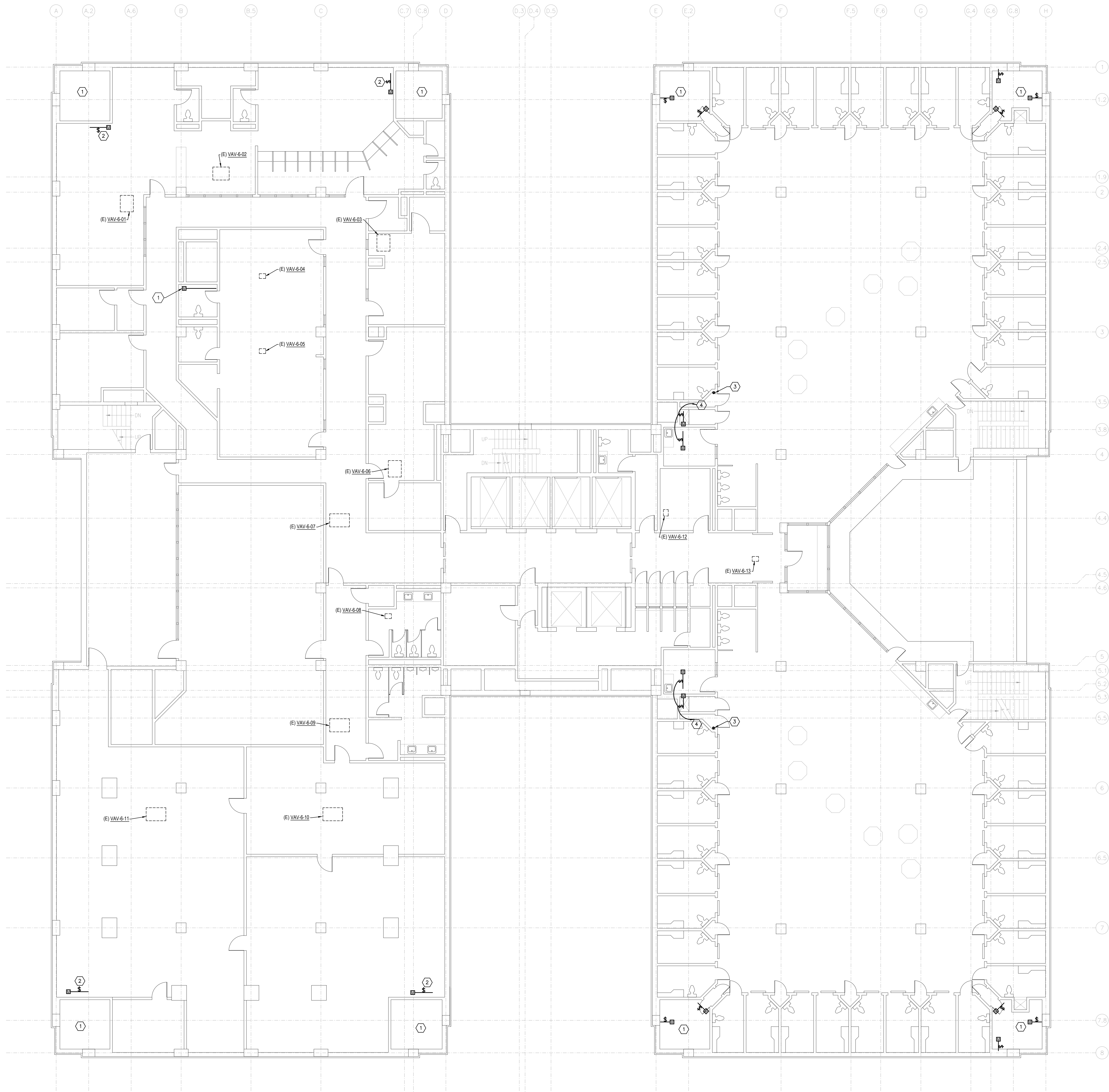
TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT
 100 N LAMAR STREET FORT WORTH, TEXAS 76102

LEVEL 5 FLOOR PLAN - MECHANICAL		DATE
NO.	DESCRIPTION	



PROJECT NUMBER: 2021.010.042
 DATE: 02/15/2023 DRAWN BY: PM
 DESIGN BY: PM CHECKED BY: LRB
SHEET E1-5
 SHEET 7 OF 13 E SHEETS TOTAL

2/22/2023 9:24AM E:\2021\000\00002021\010\042 - Tarr Co. Corr. Ctr. AHU Replacement\01 Design & Drafting\08 Elec\E1-6.dwg E1-6

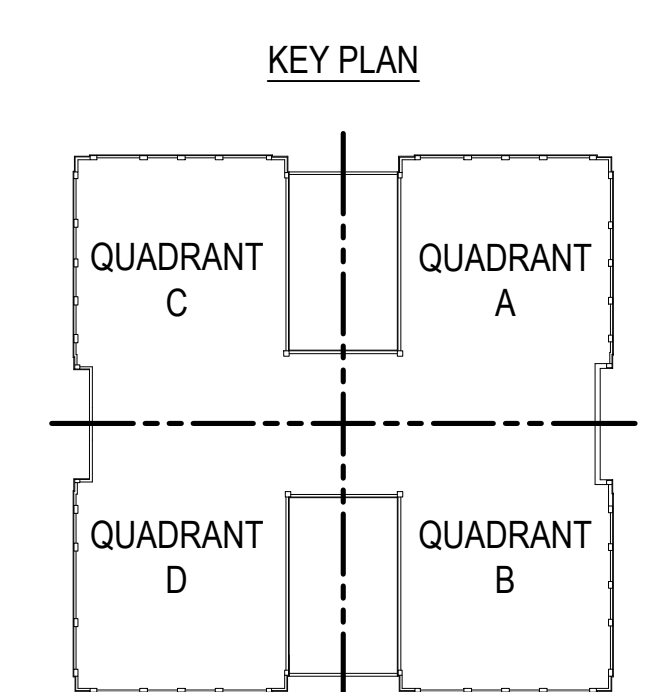


NOTES BY SYMBOL: "4"

- POWER TO MOTORIZED DAMPERS IN THIS SHAFT IS PROVIDED UNDER SEPARATE CONTRACT FROM THE ASSOCIATED JUNCTION BOXES ON LEVEL 4 INDICATED ON SHEET E1-4.
- POWER TO THIS MOTORIZED DAMPER TO BE PROVIDED BY CONTROLS CONTRACTOR UNDER SEPARATE CONTRACT FROM ADJACENT VERTICAL SHAFT DAMPER CIRCUIT.
- PROVIDE SLEEVE THROUGH FLOOR TO CEILING SPACE BELOW FOR CIRCUIT POWERING DAMPERS NEARBY TO THIS CHASE ON LEVELS ABOVE AND BELOW. COORDINATE EXACT CORE LOCATION WITH EXISTING CONDITIONS AND MECHANICAL CONTRACTOR AND OWNER PRIOR TO CORING.
- EXTEND CIRCUIT THROUGH NEAREST SLEEVE TO FLOOR BELOW (REFER TO NOTE BY SYMBOL 3) AND CONNECT TO RESPECTIVE CIRCUIT INDICATED ON SHEET E1-5.

SHEET NOTES:

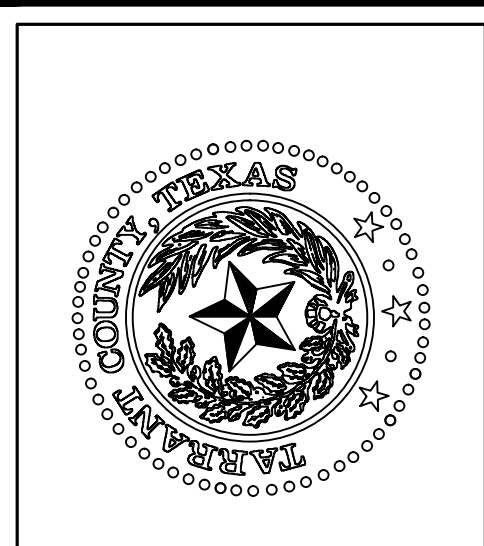
- CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.



LEVEL 6 FLOOR PLAN - ELECTRICAL
 SCALE: 1/8" = 1'-0"

BIB
BAIRD, HAMPTON & BROWN
engineering and surveying

6300 Regatta Place, Suite 700 Fort Worth, TX 76116
mhb@bhb.com • 817.338.1277 • bhb.com
TPE Firm #44, #1011060, 10011062, #0194146



**TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT**

100 N LAMAR STREET FORT WORTH, TEXAS 76102

NO.	DESCRIPTION	DATE

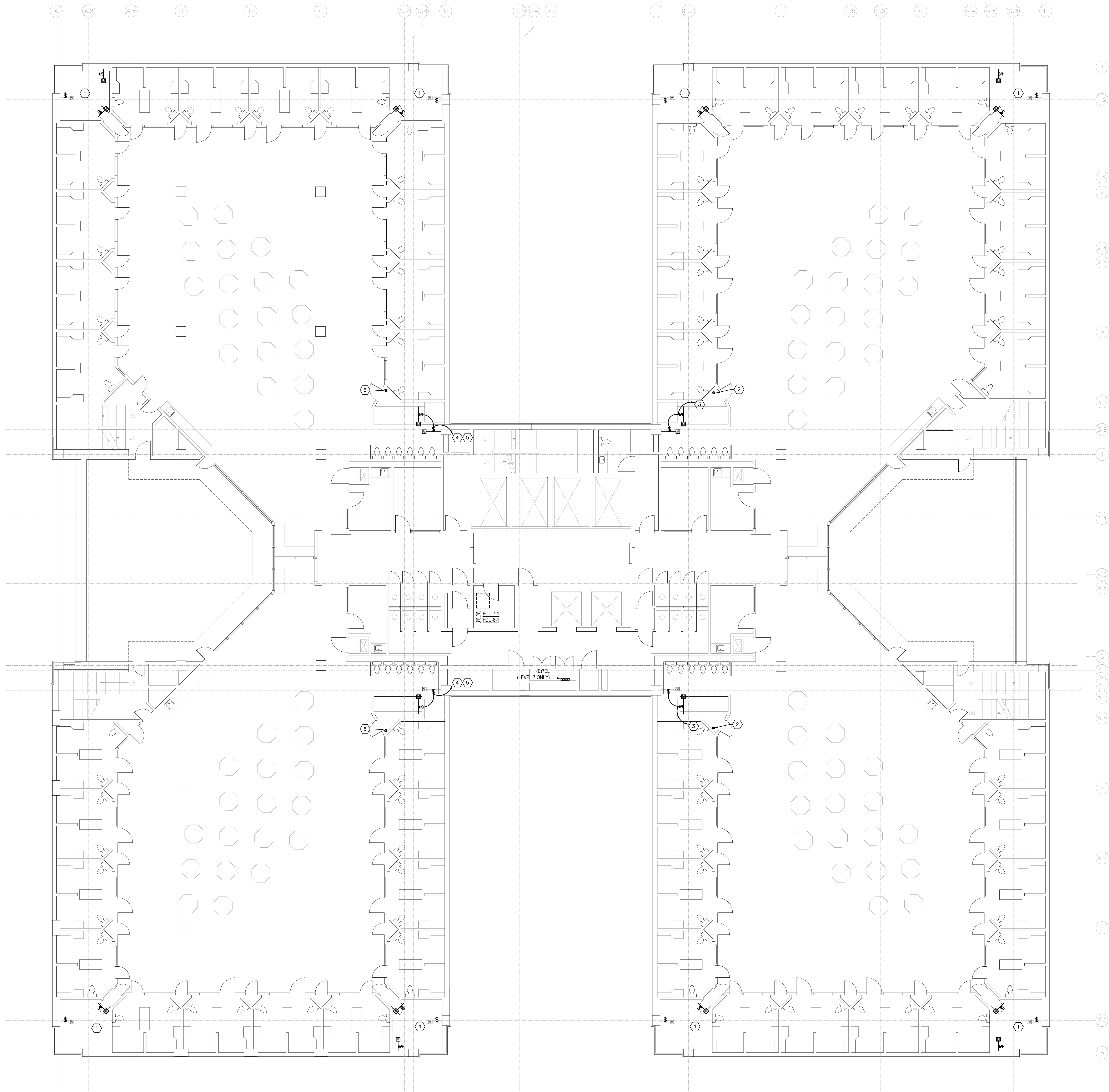


PROJECT NUMBER: 2021.010.042
 DATE: 02/15/2023 DRAWN BY: PM
 DESIGN BY: PM CHECKED BY: LRB

**SHEET
E1-6**

SHEET 8 OF 13 E SHEETS TOTAL

2/22/2023 9:25AM E:\2021\000\000027\010.dwg - Tarrant County Projects\2021\010\042 - Tan Co Cor Ct AHU Replacement\01 Design & Drafting\08 Elec\E1-7.dwg E1-7

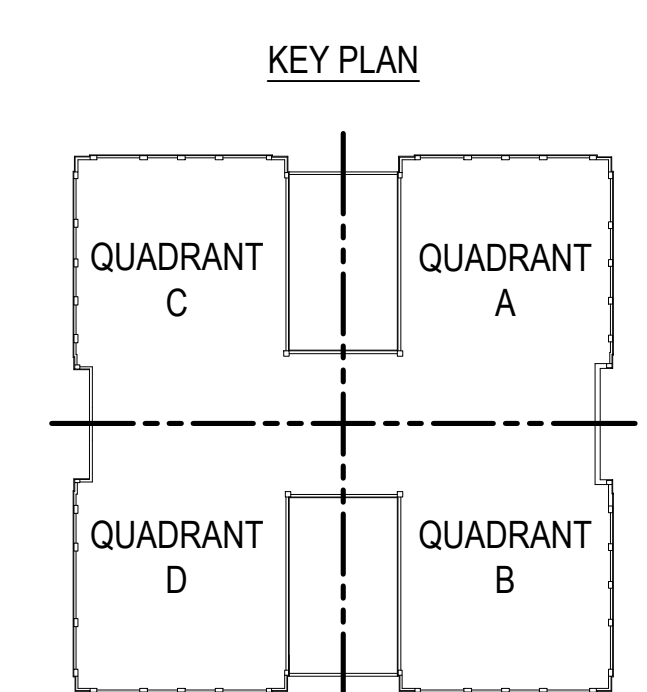


NOTES BY SYMBOL: "4"

1. POWER TO MOTORIZED DAMPERS IN THIS SHAFT IS PROVIDED UNDER SEPARATE CONTRACT FROM THE ASSOCIATED JUNCTION BOXES ON LEVEL 4 INDICATED ON SHEET E1-4.
2. PROVIDE SLEEVE THROUGH FLOOR TO CEILING SPACE BELOW FOR CIRCUIT POWERING DAMPERS NEARBY TO THIS CHASE ON LEVELS ABOVE AND BELOW. COORDINATE EXACT CORE LOCATION WITH EXISTING CONDITIONS AND MECHANICAL CONTRACTOR AND OWNER PRIOR TO CORING.
3. EXTEND CIRCUIT THROUGH NEAREST SLEEVE TO FLOOR BELOW (REFER TO NOTE BY SYMBOL 2) AND CONNECT TO RESPECTIVE CIRCUIT INDICATED ON SHEET E1-5.
4. (LEVEL 7 NOTE) EXTEND TO SPARE 20A CIRCUIT BREAKER IN PANEL 7EL (CIRCUIT BREAKER TO POWER ALL INSTANCES INDICATED BY THIS NOTE BY SYMBOL ON THIS LEVEL).
5. (LEVEL 8 NOTE) EXTEND CIRCUIT THROUGH NEAREST SLEEVE TO FLOOR BELOW (REFER TO NOTE BY SYMBOL 6) AND CONNECT TO RESPECTIVE CIRCUIT IN PANEL 7EL INDICATED ON THIS SHEET.
6. (LEVEL 8 NOTE) PROVIDE SLEEVE THROUGH FLOOR TO CEILING SPACE BELOW FOR CIRCUIT POWERING DAMPERS NEARBY TO THIS CHASE ON LEVELS ABOVE AND BELOW. COORDINATE EXACT CORE LOCATION WITH EXISTING CONDITIONS AND MECHANICAL CONTRACTOR AND OWNER PRIOR TO CORING.

SHEET NOTES:

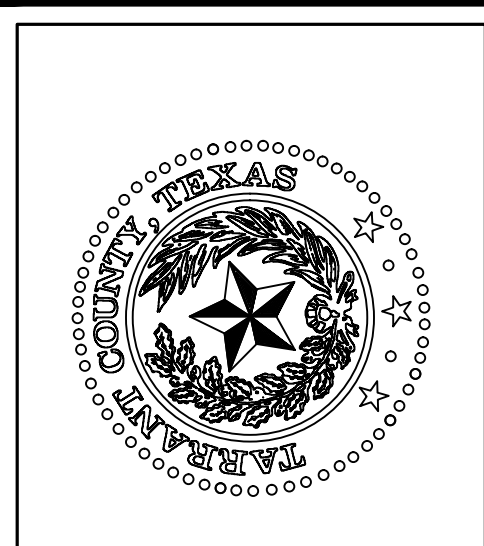
1. CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.



LEVEL 7 & 8 FLOOR PLAN - ELECTRICAL
 SCALE: 1/8" = 1'-0"

BIB
BAIRD, HAMPTON & BROWN
engineering and surveying

6300 Regatta Place, Suite 700 Fort Worth, TX 76116
mhb@bahbc.com • 817.338.1277 • bahbc.com
TPE Firm #44, #1031366, 1001302, #0194146



**TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT**

100 N LAMAR STREET FORT WORTH, TEXAS 76102

NO.	DESCRIPTION	DATE

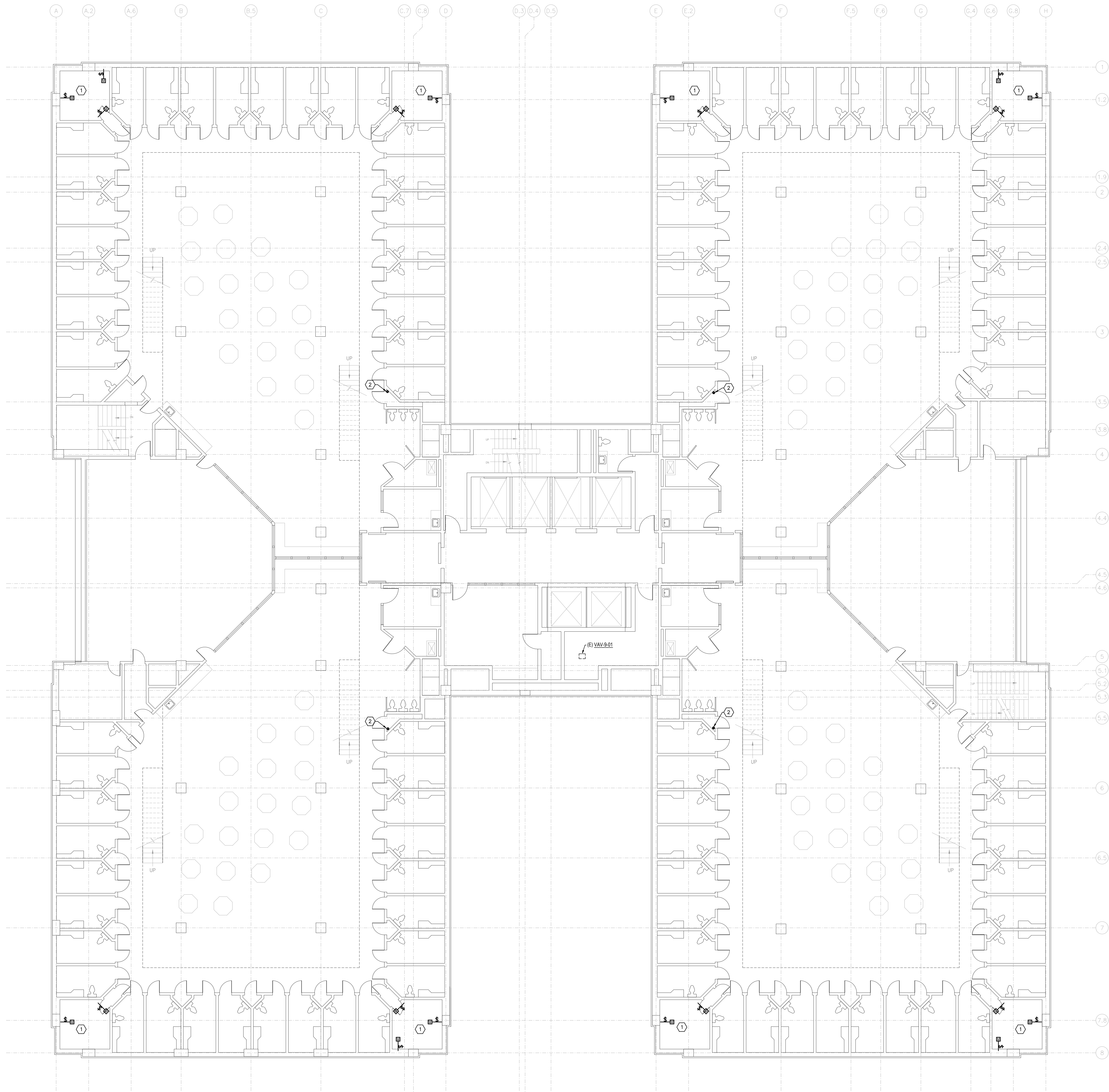



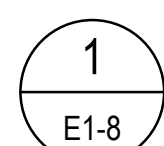
PROJECT NUMBER: 2021.010.042
DATE: 02/15/2023 DRAWN BY: PM
DESIGN BY: PM CHECKED BY: LRB

**SHEET
E1-7**

SHEET 9 OF 13 E SHEETS TOTAL

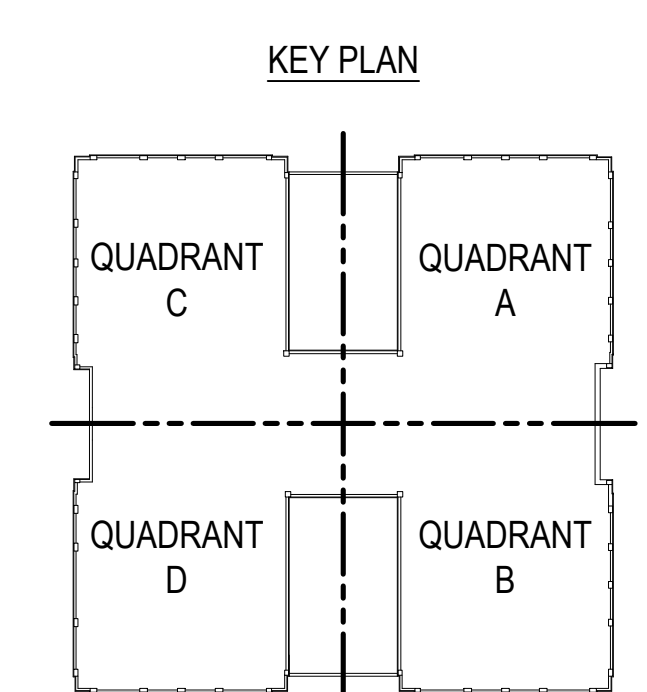
2/22/2023 9:25AM E:\2021\000\00002021\010\042 - Tarr Co Cor Ct AHU Replacement\01 Design & Drafting\08 Elec\E1-8.dwg E1-8



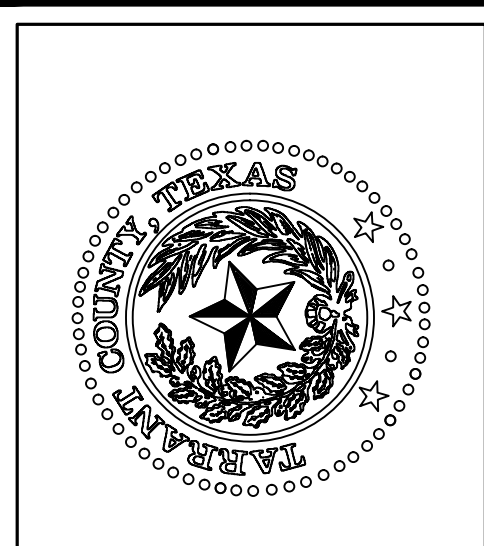


LEVEL 9, 10, 11, 12, & 13 FLOOR PLAN - ELECTRICAL
 SCALE: 1/8" = 1'-0"

- NOTES BY SYMBOL: "1"**
- POWER TO MOTORIZED DAMPERS IN THIS SHAFT IS PROVIDED UNDER SEPARATE CONTRACT FROM THE ASSOCIATED JUNCTION BOXES ON LEVEL 4 INDICATED ON SHEET E1-4.
 - PROVIDE SLEEVE THROUGH FLOOR TO CEILING SPACE BELOW FOR CIRCUIT POWERING DAMPERS NEARBY TO THIS CHASE ON LEVELS ABOVE AND BELOW. COORDINATE EXACT CORE LOCATION WITH EXISTING CONDITIONS AND MECHANICAL CONTRACTOR AND OWNER PRIOR TO CORING.

- SHEET NOTES:**
- CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.



BIB
BAIRD, HAMPTON & BROWN
 engineering and surveying
 6300 Regatta Place, Suite 700 Fort Worth, TX 76116
 mail@bhbc.com • 817.338.1277 • bhbc.com
 TPE Firm #44, #1011060, 1001102, #0194146



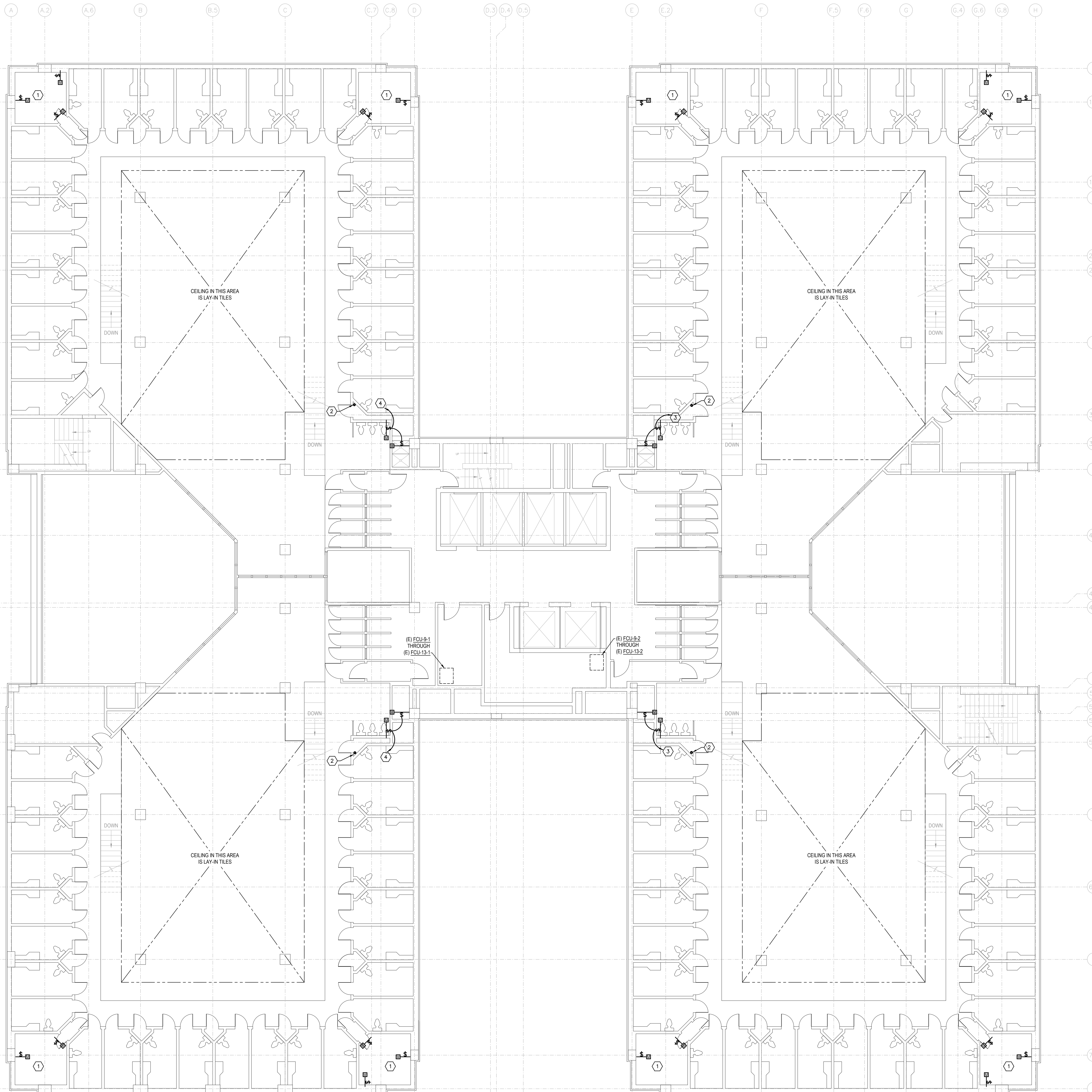
**TARRANT COUNTY CORRECTIONS CENTER
 AHU REPLACEMENT PROJECT**
 100 N LAMAR STREET FORT WORTH, TEXAS 76102

**LEVEL 9, 10, 11, 12, & 13
 FLOOR PLAN - ELECTRICAL**

NO.	DESCRIPTION	DATE



PROJECT NUMBER: 2021.010.042
 DATE: 02/15/2023 DRAWN BY: PM
 DESIGN BY: PM CHECKED BY: LRB
SHEET E1-8
 SHEET 10 OF 13 E SHEETS TOTAL



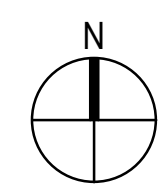
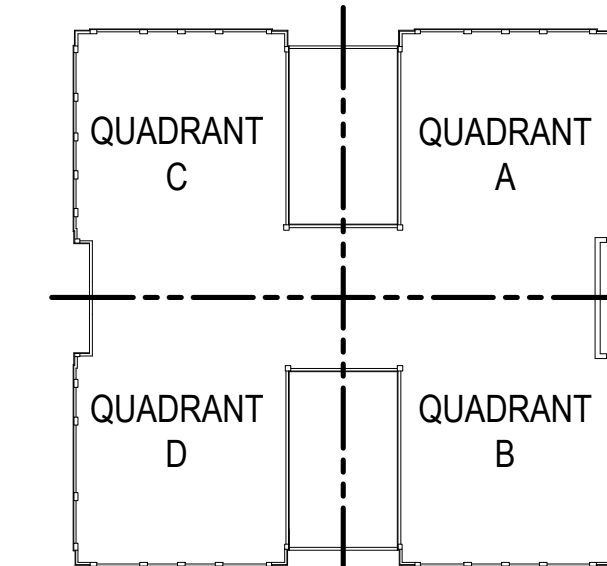
NOTES BY SYMBOL: "4"

- POWER TO MOTORIZED DAMPERS IN THIS SHAFT IS PROVIDED UNDER SEPARATE CONTRACT FROM THE ASSOCIATED JUNCTION BOXES ON LEVEL 4 INDICATED ON SHEET E1-4.
- PROVIDE SLEEVE THROUGH FLOOR TO CEILING SPACE BELOW FOR CIRCUIT POWERING DAMPERS NEARBY TO THIS CHASE ON LEVELS ABOVE AND BELOW. COORDINATE EXACT CORE LOCATION WITH EXISTING CONDITIONS AND MECHANICAL CONTRACTOR AND OWNER PRIOR TO CORING.
- EXTEND CIRCUIT THROUGH NEAREST SLEEVE TO FLOOR BELOW (REFER TO NOTE BY SYMBOL 2) AND CONNECT TO RESPECTIVE CIRCUIT INDICATED ON SHEET E1-5.
- EXTEND CIRCUIT THROUGH NEAREST SLEEVE TO FLOOR BELOW (REFER TO NOTE BY SYMBOL 2) AND CONNECT TO SPARE CIRCUIT BREAKER INDICATED BY NOTE BY SYMBOL 4 ON SHEET E1-7.

SHEET NOTES:

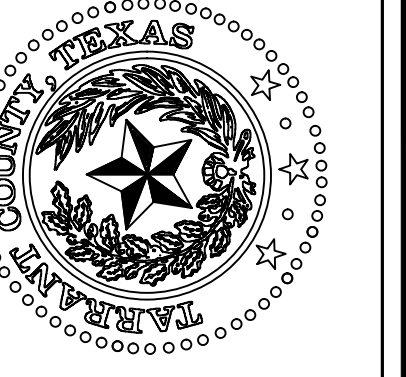
- REMOVE AND REPLACE EXISTING SECURITY CEMENT PLASTER CEILING AS REQUIRED TO ACCESS DAMPERS. REPLACE EXISTING ACCESS DOOR WITH NEW ACCESS DOOR. MATCH EXISTING SIZE OR INCREASE AS REQUIRED.

KEY PLAN



1
E1-9

LEVEL 9M, 10M, 11M, 12M, & 13M FLOOR PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

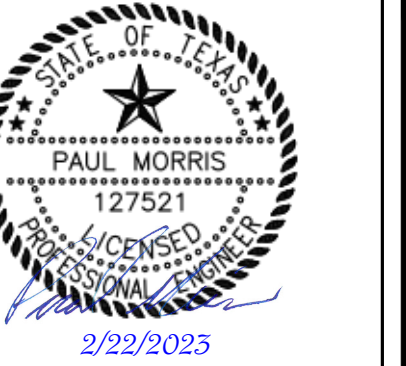


TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT

100 N LAMAR STREET FORT WORTH, TEXAS 76102

LEVEL 9M, 10M, 11M, 12M, & 13M
FLOOR PLAN - ELECTRICAL

NO.	DESCRIPTION	DATE



PROJECT NUMBER: 2021.010.042
DATE: 02/15/2023 DRAWN BY: PM
DESIGN BY: PM CHECKED BY: LRB

SHEET
E1-9
SHEET 11 OF 13 E SHEETS TOTAL

2/22/2023 8:32AM E:\2021\000\0002021\010\042 - Tarr Co Cour Ct AHU Replacement\01 Design & Drafting\08 Elec\E1-10.dwg E:1-10



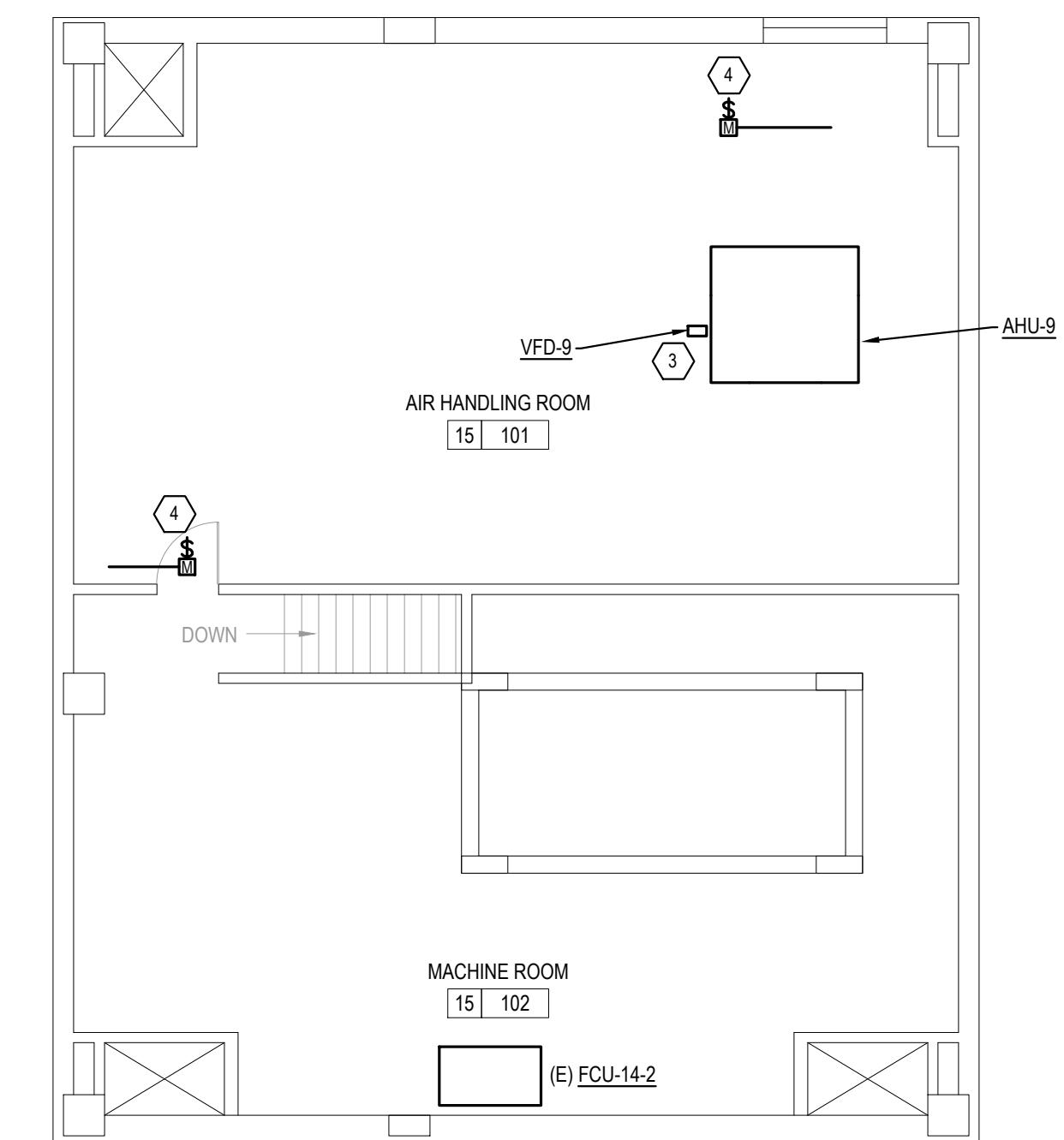
1 ROOF PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

NOTES BY SYMBOL: "E"

1. EXTEND AND REROUTE EXISTING SEF FEEDER AS REQUIRED (3#2 & 1#6G, 1-1/4"Ø) FROM ORIGINAL FAN POWER SUPPLY TO NEW VFD AND FROM VFD BACK TO REPLACED FAN POWER SUPPLY.
2. EXTEND AND REROUTE EXISTING SPF FEEDER AS REQUIRED (3#10 & #10G, 3/4"Ø) FROM ORIGINAL FAN POWER SUPPLY TO NEW VFD AND FROM VFD BACK TO REPLACED FAN POWER SUPPLY.
3. EXTEND FEEDER FROM CIRCUIT BREAKER SERVING AHU-9 TO NEW AHU-9 VFD LOCATION AND FROM NEW VFD LOCATION TO UNIT PER FEEDER SIZE INDICATED ON EQUIPMENT FEEDER SCHEDULE. RE-USE EXISTING CONDUIT WHERE POSSIBLE.
4. CONNECT MOTORIZED DAMPER TO SPARE 20A1P CIRCUIT BREAKER IN PANEL 14EL (IN PENTHOUSE BELOW) ALONG WITH OTHER MOTORIZED DAMPER ON THIS LEVEL.

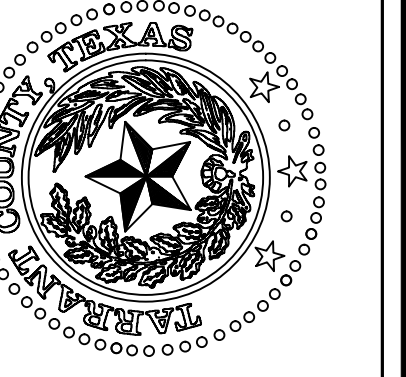
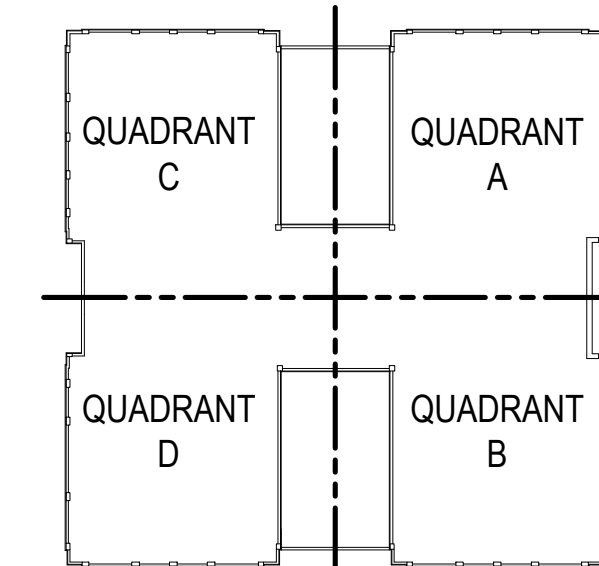
SHEET NOTES:

1. CLOSELY COORDINATE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR TO INSTALL ALL AUTOMATIC CONTROL DAMPERS, FIRE/SMOKE DAMPERS, CONTROL VALVES, AND ALL OTHER CONTROL ELEMENTS PROVIDED BY THAT CONTRACTOR.



2 PENTHOUSE PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

KEY PLAN

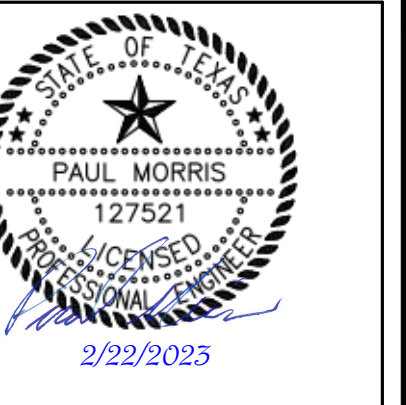


TARRANT COUNTY CORRECTIONS CENTER
AHU REPLACEMENT PROJECT

100 N LAMAR STREET FORT WORTH, TEXAS 76102

ROOF PLAN & PENTHOUSE-
ELECTRICAL

NO.	DESCRIPTION	DATE



PROJECT NUMBER: 2021.010.042
DATE: 02/15/2023 DRAWN BY: EM
DESIGN BY: PM CHECKED BY: PM

SHEET
E1-10
SHEET 12 OF 13 E SHEETS TOTAL

