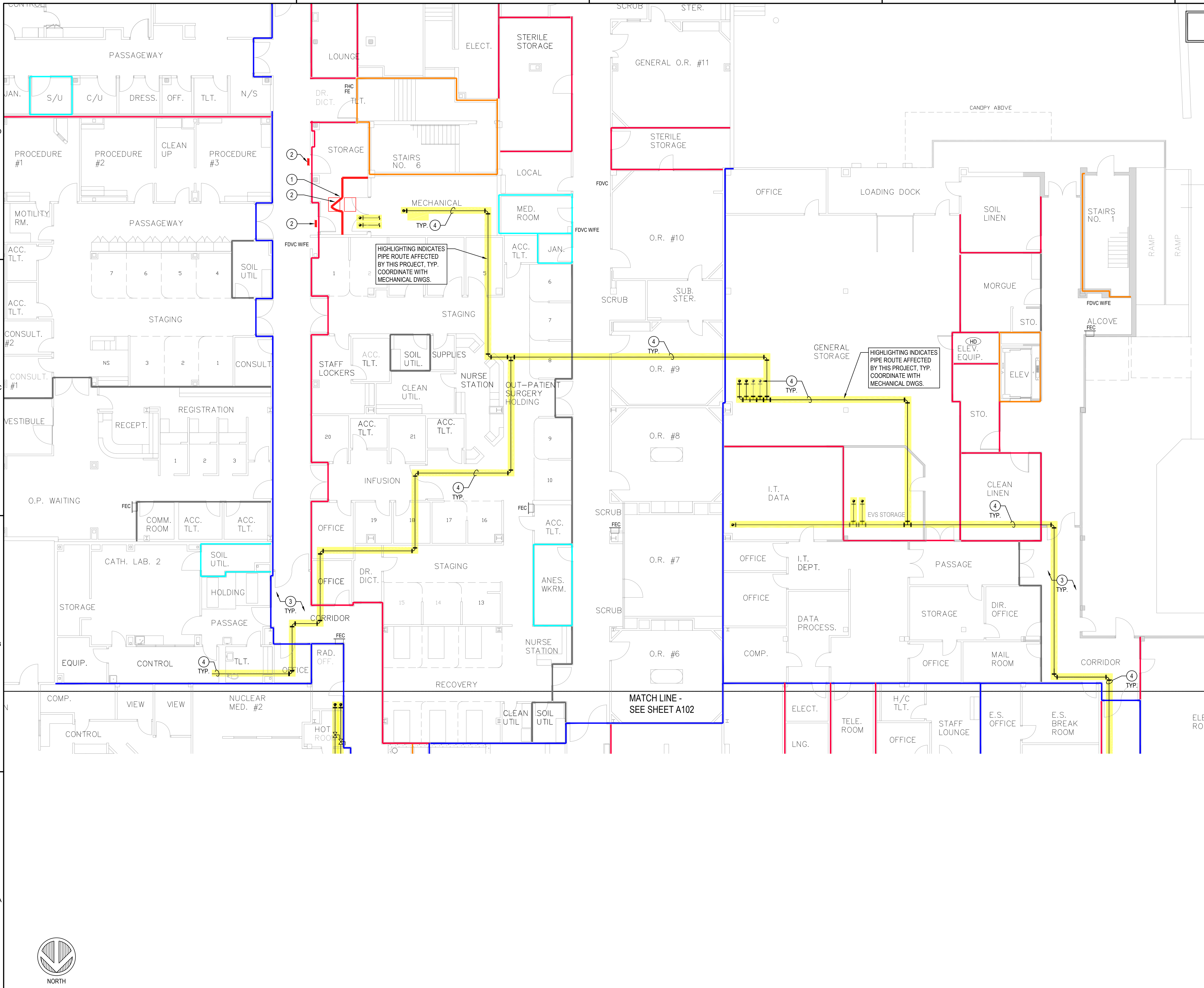




PLOT DATE: 07/27/2023 10:28:39 AM  
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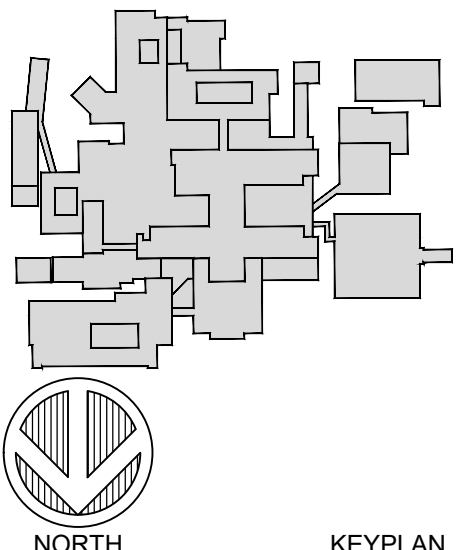
SHALL FOLLOW THE MINIMUM ICRA REQUIREMENTS AS OUTLINED IN 2022 FGI GUIDELINES FOR DESIGN & CONSTRUCTION OF HOSPITALS; REFER TO ICRA NOTES BELOW FOR WALL PANELS, DOOR REQUIREMENTS, VENTILATION, SIGNAGE, TRASH REMOVAL, WALK-OFF MATS, & ADDITIONAL INFORMATION.

- ICRA NOTES:**
- ALL WORK SHALL BE COORDINATED WITH THE FACILITY.
  - ALL DOORS MUST BE SEALED DURING TIMES OF CONSTRUCTION.
  - PROVIDE NEGATIVE AIR MACHINE WITH HEPA FILTRATION AND NEGATIVE AIR MONITOR. ENTIRE CONSTRUCTION AREA SHALL BE UNDER NEGATIVE PRESSURE. NEGATIVE AIR PRESSURE SHALL DISCHARGE TO AREA OF LAB NOT UNDER CONSTRUCTION.
  - USE CART WITH PLASTIC COVERING, TAPED CLOSED, FOR DEBRIS REMOVAL.
  - CONTRACTOR SHALL MAINTAIN ALL LIFE SAFETY FEATURES FOR OCCUPIED RESIDENT CARE AREAS, INCLUDING PROTECTION OF FIRE BARRIERS AND LIFE SAFETY SYSTEMS.
  - EXISTING HVAC SYSTEM SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION. FILTERS SHALL BE INSTALLED AT ALL AIR DEVICES AND DUCT OPENINGS DURING CONSTRUCTION.
  - MAINTAIN 6'-0" CLEARANCE AT CORRIDORS WHEN ERECTING TEMPORARY CONSTRUCTION DUST PARTITION OR AT ICRA CART - DO NOT BLOCK DOORS WITH ICRA CART. CONSTRUCTION BARRIERS TO BE MAINTAINED UNTIL FACILITY SAFETY OFFICER DETERMINES IT'S SAFE TO REMOVE THEM.

- KEY NOTES:**
- TEMPORARY CONSTRUCTION ACCESS DOOR WITH INTERIOR WALK-OFF MAT AND DUST CONTROL MAT IMMEDIATELY ADJACENT, EACH SIDE. CONSTRUCTION ACCESS DOOR TO HAVE SELF-CLOSING DEVICE AND SHALL REMAIN LOCKED DURING CONSTRUCTION. TEMP DOORS SHALL SWING INTO SPACE, NOT INTO CORRIDORS.
  - CONTRACTOR TO PROVIDE CONSTRUCTION SIGNS ON ALL DOORS IN THE TEMPORARY BARRIERS STATING "DO NOT ENTER - CONSTRUCTION AREA - AUTHORIZED PERSONNEL ONLY".
  - ALL WORK TO BE DONE IN COMMON HALLS, PASSAGEWAYS, & CORRIDORS TO USE ICRA CART FOR OVERHEAD WORK WHEREVER AND WHENEVER REQUIRED.
  - CHWS/R PIPING RUNS & RISERS ARE SHOWN FOR REFERENCE ONLY. COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
  - REFER TO SHEET M4.02 FOR PIPE PENETRATION DETAILS.
  - PREFABRICATED/PRE-ENGINEERED VARIABLE HEIGHT PARAPET LADDER- REFER TO B4/A106 FOR ADDITIONAL INFORMATION.

C5	NOTES
SCALE: NTS	

	FIRE EXTINGUISHER
	FIRE EXTINGUISHER CABINET
	FIRE EXIT
	SMOKE DETECTOR
	EXIT SIGN
	EXIT SIGN WITH DIRECTIONAL ARROW(S)
	HORN/STROBE
	STROBE ONLY
	FIRE PULL STATION
	NON-RATED SMOKE WALL (EXISTING)
	1 HR FIRE RATED BARRIER (EXISTING)
	1 HR RATED HAZARDOUS PARTITION (EXISTING)
	1 HR FIRE AND SMOKE RATED BARRIER (EXISTING)
	1 HR SMOKE RATED BARRIER (EXISTING)
	ICRA RATED CONSTRUCTION BOUNDARY WALL PANELS WITH CAUTION SIGNAGE. "DO NOT ENTER - CONSTRUCTION AREA - AUTHORIZED PERSONNEL ONLY"; WALLS NOT TO BE REMOVED UNTIL AUTHORIZED BY THE FACILITY SAFETY OFFICER
	ICRA RATED WALL PANEL DOOR- 36" min.
	ICRA RATED STICKY WALK-OFF MAT

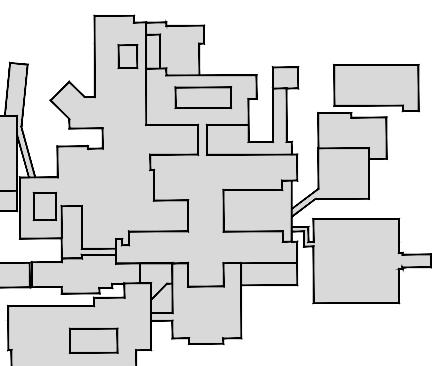


REVISIONS		KEYPLAN
NO.	DESCRIPTION	DATE









REVISIONS		
NO.	DESCRIPTION	DATE
1	HCA REVIEW COMMENTS	5/19/26

Project Number	M25050
Dated	01.12.2026

**GENERAL NOTES:**

FOR ALL WORK TO BE PERFORMED AND NOT INDICATED ON THIS SHEET, SHALL FOLLOW THE MINIMUM ICRA REQUIREMENTS AS OUTLINED IN 2022 FGI GUIDELINES FOR DESIGN & CONSTRUCTION OF HOSPITALS; REFER TO ICRA NOTES BELOW FOR WALL PANELS, DOOR REQUIREMENTS, VENTILATION, SIGNAGE, TRASH REMOVAL, WALK-OFF MATS, & ADDITIONAL INFORMATION.

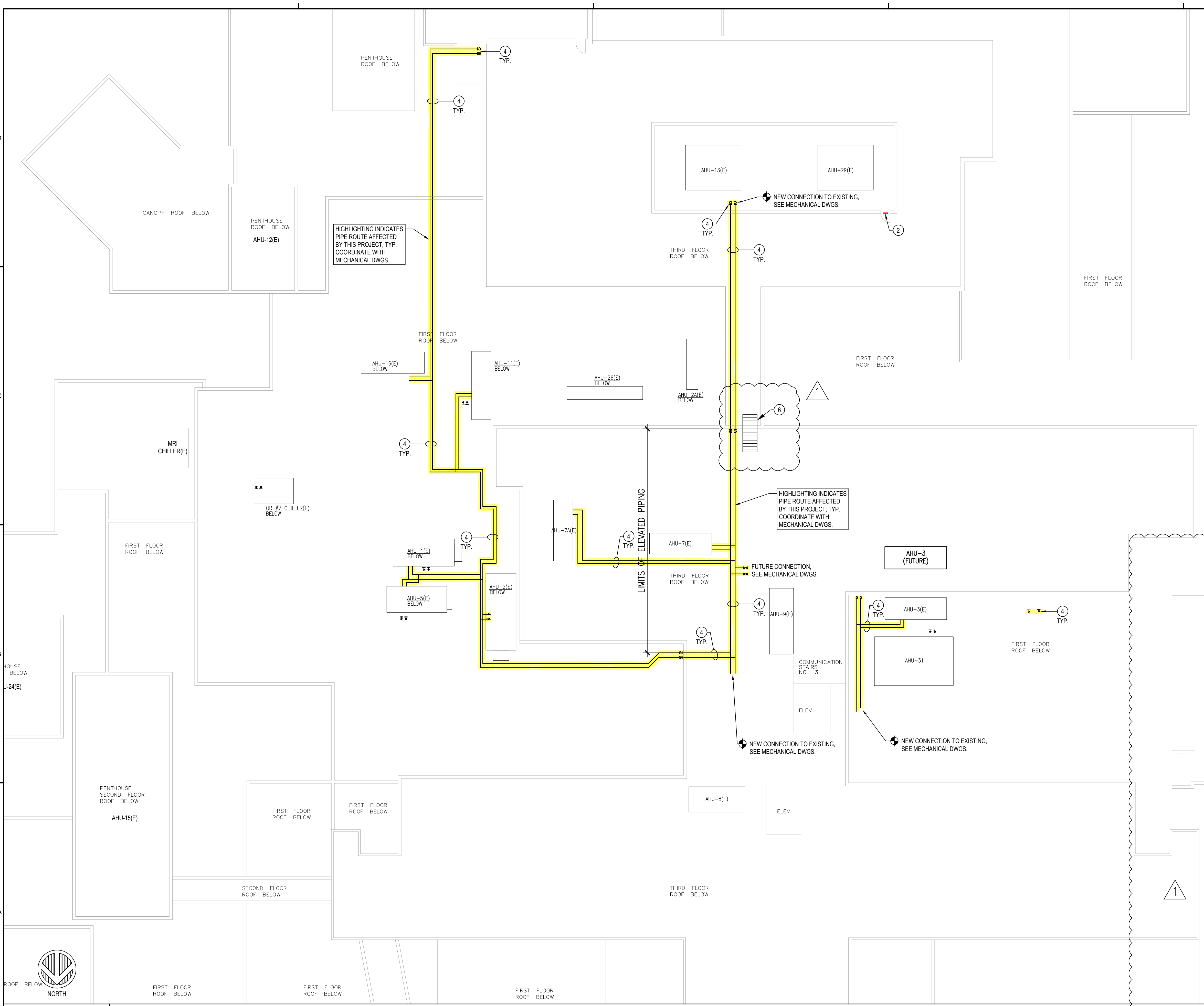
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6. PREFABRICATED/PRE-ENGINEERED VARIABLE HEIGHT PARAPET LADDER- REFER TO B4/A106 FOR ADDITIONAL INFORMATION.

<b>C5</b>	<b>NOTES</b>
SCALE: NTS	



PROJECT DATE: 01/12/2026 10:43 AM  
 PROJECT: HCA FLORIDA GULF COAST HOSPITAL CHILLED WATER REPLACEMENT  
 SHEET: PARTIAL ROOF PLAN  
 DRAWN BY: J. GIBSON  
 CHECKED BY: J. GIBSON  
 DATE: 01/12/2026  
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## LEGEND

<b>RTU-1</b>	EQUIPMENT TAG	TYP	TYPICAL
	DETAIL TAG (*1* INDICATES IDENTIFICATION NUMBER; *M3* INDICATES THE SHEET NUMBER DRAWN ON)	TEMP	TEMPERATURE
	SHEET NOTE	SA	SUPPLY AIR
	GATE VALVE	RA	RETURN AIR
	TWO-WAY CONTROL VALVE	EA	EXHAUST AIR
	THREE-WAY CONTROL VALVE	OA	OUTDOOR AIR
	STRAINER WITH BLOW DOWN VALVE AND CAP	AHU	INDOOR AIR HANDLING UNIT
	THERMOMETER	DDC	DIRECT DIGITAL CONTROL
	THERMOMETER WELL OR PRESSURE TEMPERATURE PORT AS INDICATED	NO	NORMALLY OPEN
	VARIABLE FREQUENCY DRIVE	NC	NORMALLY CLOSED
	DIGITAL CONTROLS ENCLOSURE	VFM	VENTURI FLOW METER
	REFRIGERANT PIPE	AI	ANALOG INPUT
	GATE VALVE	AO	ANALOG OUTPUT
	AUTOMATIC AIR VENT	DI	DIGITAL INPUT
	PRESSURE GAUGE AND 1/4" BALL VALVE	DO	DIGITAL OUTPUT
	UNION	TAB	TESTING, ADJUSTING AND BALANCING
	NEW PIPING	NOM	NOMINAL
	EXISTING PIPING TO REMAIN	VFD	VARIABLE FREQUENCY DRIVE
	PIPING TO BE ABANDONED IN PLACE	E	EXISTING
	PIPING TO BE REMOVED	FCU	FAN COIL UNIT
			POINT OF CONNECTION TO EXISTING
		CHWS	CHILLED WATER SUPPLY
		CHWR	CHILLED WATER RETURN

## PIPING GENERAL NOTES

- BUTTERFLY VALVES INDICATED FOR FLOW BALANCING AND SHUT OFF SERVICE SHALL BE PROVIDED WITH INFINITE POSITION THROTTLING HANDLE AND MEMORY STOP. AFTER HYDRONIC TEST AND BALANCE HAS BEEN COMPLETED, THE CONTRACTOR SHALL POSITION THE MEMORY STOP AT THE FINAL BALANCE POINT OF EACH VALVE. PROVIDE STAMPED ALUMINUM TAG FOR EACH VALVE INDICATING "BALANCING VALVE - DO NOT REMOVE MEMORY STOP - RETURN TO BALANCE SETTING."
- PROVIDE AIR CHAMBER AND AUTOMATIC AIR VENTS AT ALL HIGH POINTS IN SYSTEM, PIPE TO FLOOR DRAIN WITH COPPER TUBING. SEE "TYPICAL AIR CHAMBER DETAIL."
- BUTTERFLY VALVES FOR SHUT OFF SERVICE SHALL BE PROVIDED WITH STAMPED ALUMINUM TAG INDICATING "SERVICE VALVE."
- ALL CONNECTIONS TO AIR VENTS AND PRESSURE GAGES SHALL BE MADE WITH BRASS PIPING.
- INSTALL PIPE HANGERS NEXT TO AND ON BOTH SIDES OF ALL EQUIPMENT.
- SEAL ALL PIPE PENETRATIONS OF WALLS AND FLOORS AIR TIGHT REGARDLESS OF WHETHER WALLS OR FLOORS ARE FIRE RATED OR NOT.
- PIPE SIZE 2" AND SMALLER SHALL BE BLACK STEEL PIPE; SCHEDULE 40, CLASS 125 CAST-IRON FITTINGS WITH THREADED JOINTS.
- PIPE SIZE 2 1/2" AND LARGER SHALL BE BLACK STEEL PIPE; SCHEDULE 40; WROUGHT-STEEL BUTTWELDING FITTINGS WITH WELDED JOINTS.
- ALL PIPING SHALL BE INSULATED WITH CELLULAR GLASS INSULATION, COMPLYING WITH ASTM C552, TYPE II, CLASS 1. PIPING LESS THAN 6" SHALL HAVE 1-1/2" THICK INSULATION. PIPING 6" AND LARGER SHALL HAVE 2" THICK INSULATION. CUT INSULATION IN SECTIONS AT FITTINGS AND CAREFULLY FIT TO THE PIPE AND FITTINGS. NO STOVEPIPE OR SINGLE MITER INSULATION IS ALLOWED. APPLY CELLULAR GLASS BEDDING COMPOUND TO THE PIPE SURFACE TO ACHIEVE 100% COVERAGE. APPLY VAPOR BARRIER MASTIC TO ALL EDGES OF THE CELLULAR INSULATION AND BETWEEN JOINTS IN THE INSULATION. WIRE THE CELLULAR GLASS IN PLACE WITH STAINLESS STEEL WIRE 9 INCHES ON CENTER. PROVIDE HANGER OR PIPE SUPPORT SHIELDS OF 16 GAUGE (MINIMUM) GALVANIZED STEEL OVER OR EMBEDDED IN THE INSULATION WHICH EXTEND HALFWAY UP THE PIPE INSULATION COVER AND AT LEAST 4" ON EACH SIDE OF THE HANGER. INSULATE ANCHORS ADEQUATELY TO PREVENT MOISTURE CONDENSATION PROBLEMS. FINISH CELLULAR GLASS BY APPLYING A HEAVY COAT OF WEATHER BARRIER SEALANT REINFORCED WITH WHITE GLASS FABRIC TO THE EXTERIOR OF THE CELLULAR GLASS. COVER PIPING WITH 0.016" THICKNESS SMOOTH ALUMINUM JACKET FASTENED WITH ALUMINUM BANDS ON NOT OVER 12" CENTERS. USE FACTORY-MADE 0.014" ALUMINUM COVERS FOR FITTINGS AND VALVES. PROVIDE REMOVABLE END CAPS FOR STRAINERS. METAL JACKETING SHALL BE APPLIED WITH THE LONGITUDINAL SEAM POSITIONED TO SHED WATER.
- ALL PIPING SHALL BE LABELED IN COMPLIANCE WITH ANSI A13.1 FOR IDENTIFICATION DEVICES. PROVIDE PLASTIC PIPE MARKERS WITH MANUFACTURER'S STANDARD PRE-PRINTED NOMENCLATURE WHICH BEST DESCRIBES PIPING SYSTEM IN EACH INSTANCE, AS SELECTED BY ARCHITECT/ENGINEER IN CASES OF VARIANCE WITH NAME AS SHOWN OR SPECIFIED. PRINT EACH PIPE MARKER WITH ARROWS INDICATING DIRECTION OF FLOW, EITHER INTEGRALLY WITH PIPING SYSTEM SERVICE LETTERING (TO ACCOMMODATE BOTH DIRECTIONS), OR AS SEPARATE UNIT OF PLASTIC. LOCATE PIPE MARKERS AS FOLLOWS WHEREVER PIPING IS EXPOSED TO VIEW IN OCCUPIED SPACES, MACHINE ROOMS, ACCESSIBLE MAINTENANCE SPACES AND EXTERIOR NON-CONCEALED LOCATIONS. NEAR EACH VALVE AND CONTROL DEVICE. NEAR EACH BRANCH, EXCLUDING SHORT TAKE-OFFS FOR FIXTURES AND TERMINAL UNITS; MARK EACH PIPE AT BRANCH, WHERE THERE COULD BE QUESTION OF FLOW PATTERN. NEAR LOCATIONS WHERE PIPES PASS THROUGH WALLS, FLOORS, CEILINGS, OR ENTER NON-ACCESSIBLE ENCLOSURES. AT ACCESS DOORS, MANHOLES AND SIMILAR ACCESS POINTS WHICH PERMIT VIEW OF CONCEALED PIPING. NEAR MAJOR EQUIPMENT ITEMS AND OTHER POINTS OF ORIGIN AND TERMINATION. SPACED INTERMEDIATELY AT MAXIMUM SPACING OF 50' ALONG EACH PIPING RUN, EXCEPT REDUCE SPACING TO 25' IN CONGESTED AREAS OF PIPING AND EQUIPMENT. ON PIPING ABOVE REMOVABLE ACOUSTICAL CEILINGS, EXCEPT OMIT INTERMEDIATELY SPACED MARKERS. PROVIDE PERMANENT LABELS FOR ALL NEW CHILLED WATER PIPING AND ALL PIPING TO BE ABANDONED. PIPE THAT IS ABANDONED SHALL BE CLEARLY LABELED AS "ABANDONED PIPE".
- PROVIDE 19-GAGE POLISHED BRASS VALVE TAGS WITH STAMP-ENGRAVED PIPING SYSTEM ABBREVIATION IN 1/4" HIGH LETTERS AND SEQUENCED VALVE NUMBERS 1/2" HIGH, AND WITH 5/32" HOLE FOR FASTENER. PROVIDE 1-1/2" DIAMETER TAGS, EXCEPT AS OTHERWISE INDICATED.
- PROVIDE 19-GAGE POLISHED BRASS VALVE TAGS WITH STAMP-ENGRAVED PIPING SYSTEM ABBREVIATION IN 1/4" HIGH LETTERS AND SEQUENCED VALVE NUMBERS 1/2" HIGH, AND WITH 5/32" HOLE FOR FASTENER. PROVIDE 1-1/2" DIAMETER TAGS, EXCEPT AS OTHERWISE INDICATED.
- ALL NEW PIPING SHALL BE PRESSURE TESTED FOR LEAKS. TESTS SHALL BE WITNESSED BY THE ENGINEER. CONTACT ENGINEER 24 HOURS PRIOR TO TEST. PERFORM HYDROSTATIC TEST AT 150% OF THE NORMAL OPERATING PRESSURE, BUT NOT LESS THAN 100 PSIG. REQUIRED TEST DURATION IS 4 HOURS. TEST FAILS IF LEAKAGE IS OBSERVED OR PRESSURE DROPS MORE THAN 3%.
- FLUSH ALL NEW PIPING PRIOR TO CONNECTION TO EQUIPMENT.

## EXISTING CHILLED WATER EQUIPMENT SERVICE AREA AND LOCATION

EXISTING HYDRONIC EQUIPMENT	EQUIPMENT LOCATION	AREA SERVED
AHU-1	EAST ROOF	RADIOLOGY
AHU-2	EAST ROOF	OR 1-5, PACU, PRE-OP HOLDING
AHU-3	CAFETERIA ROOF	OR LOUNGE LOCKER ROOMS AND DOCTORS LOUNGE
AHU-5	EAST ROOF	RADIOLOGY AREA
AHU-7	HIGH ROOF	PHARMACY
AHU-7A	HIGH ROOF	STEP DOWN (EAST)
AHU-11	EAST ROOF	OR 6, OR 8, AND OUTPATIENT RECOVERY
AHU-13	SOUTH ROOF	IT&S, SECOND SOUTH, MATERIALS MANAGEMENT AND MORGUE
AHU-14	MECH ROOM IN CATH LAB	OR 9, 10, 11, AND OUTPATIENT HOLDING
AHU-16	EAST ROOF	CATH LAB 2
AHU-29	SOUTH ROOF	SICU
LEVEL 2 FAN COIL UNITS	27 TOTAL FCU'S	DISTRIBUTED THROUGHOUT LEVEL 2

**NOTE:**  
ONLY HYDRONIC EQUIPMENT INCLUDED WITHIN THE SCOPE OF WORK OF THIS CONTRACT ARE LISTED ABOVE. OTHER AREAS OF THE HCA GULF COAST CAMPUS ARE SERVED BY CHILLED WATER BUT ARE NOT LISTED IN THE SCHEDULE ABOVE. PRIOR TO SHUTDOWN OF ANY SECTION OF HYDRONIC PIPING, CONTRACTOR TO COORDINATE SCHEDULING WITH HOSPITAL FACILITIES MAINTENANCE TEAM.

## GENERAL NOTES

- FIELD VERIFY CLEAR SPACE AVAILABLE, ROUTING PATH, AND CONFLICTS WITH STRUCTURE AND THE WORK OF OTHER TRADES. PROVIDE OFFSETS IN PIPING AS REQUIRED, WHETHER SPECIFICALLY INDICATED ON DRAWINGS OR NOT. SUBMIT SHOP DRAWINGS ON PIPING LAYOUT PRIOR TO COMMENCING WORK. COORDINATE WITH ROOF TRUSSES/STRUCTURE. PRESSURE TEST ALL NEW PIPING FOR LEAKS.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PIPING, AND DUCTWORK SUCH THAT MANUFACTURER'S RECOMMENDED CLEARANCES ARE MET FOR ALL ACCESS PANELS, MOTORS, FANS, BELTS, FILTERS AND AIR INTAKES. CONDENSATE LINES SHALL BE CLEAR OF FILTER RACK ACCESS.
- PROVIDE ACCESS PANELS IN HARD CEILINGS AS REQUIRED FOR MAINTENANCE AND ADJUSTMENT OF EQUIPMENT LOCATED ABOVE CEILING.
- BECAUSE OF THE SMALL SCALE OF CONTRACT DOCUMENTS IT IS NOT POSSIBLE TO SHOW ALL OFFSETS, TRANSITIONS, ETC. THE CONTRACT DOCUMENTS ARE ESSENTIALLY DIAGRAMMATIC. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS COORDINATED WITH THE STRUCTURE AND ARCHITECTURAL WORK FOR REVIEW PRIOR TO COMMENCING WORK.
- ALL WORK SHALL COMPLY WITH 8TH EDITION (2023) FLORIDA BUILDING CODE, 2023 FLORIDA FIRE PREVENTION CODE, AND 2022 FGI GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS.
- SEAL AND PROTECT ALL WORK IN PROGRESS DURING CONSTRUCTION SUCH AS DUCT AND PIPING TO PREVENT ACCUMULATION OF CONSTRUCTION DEBRIS.
- PROVIDE DIELECTRIC ISOLATION OF DISSIMILAR METALS.
- THE HOSPITAL HAS EXISTING ICI CONTROLS. THIS PROJECT WILL NOT ALTER ANY SEQUENCES. REPLACE ANY CONTROL DEVICES THAT ARE REMOVED DURING COURSE OF CONSTRUCTION.

## GENERAL PHASING NOTES

- AHU SHUTDOWNS TO BE PHASED. COORDINATE SHUTDOWNS OF AHU'S WITH HOSPITAL FACILITIES MAINTENANCE AND HOSPITAL SCHEDULING. PREFABRICATE PIPING CONNECTIONS TO MINIMIZE TOTAL SHUTDOWN TIME FOR EQUIPMENT. ALL AHU CONNECTIONS TO OCCUR DURING WEEKENDS.
- ONCE SHUTDOWN PERIOD FOR AN AHU HAS BEGUN THE AREA SERVED BY THAT UNIT IS TO REMAIN UNOCCUPIED BY PATIENTS UNTIL THE COMPLETION OF THE NEW WORK. THIS INCLUDES TAB AND INSPECTION BY ALL GOVERNING BODIES. TAB AND INSPECTION DATES TO BE SCHEDULED PRIOR TO SHUTDOWN OF EQUIPMENT WHEN POSSIBLE TO AVOID UNNECESSARY DELAYS.
- UPON COMPLETION OF ROOF PIPING AND PRIOR TO CONNECTION TO ACTIVE CHILLED WATER PIPING OR AHU COOLING COILS THE PIPING SYSTEM IS TO BE FULLY FLUSHED. COORDINATE WITH HOSPITAL AND CHEM AOUA.

## HVAC SCOPE OF WORK

THIS PROJECT WILL REPLACE EXISTING CHILLED WATER PIPING IN THE FACILITY THAT HAS REACHED THE END OF SERVICEABLE LIFE. IN AN EFFORT TO MINIMIZE DISRUPTION OF HOSPITAL OPERATIONS, NEW PIPING WILL BE ROUTED ALONG THE ROOF AND EXISTING PIPING ABOVE CEILING WILL BE DRAINED AND ABANDONED IN PLACE. NEW CHILLED WATER CONNECTIONS TO EXISTING EQUIPMENT WILL BE PHASED.

CONTRACTOR SHALL PRETEST CHILLED WATER FLOW RATE AT EACH AHU PRIOR TO DISCONNECTING FROM EXISTING PIPING. AFTER NEW PIPE IS CONNECTED AHU'S SHALL BE BALANCED TO WITHIN +/- 10% OF THESE VALUES.

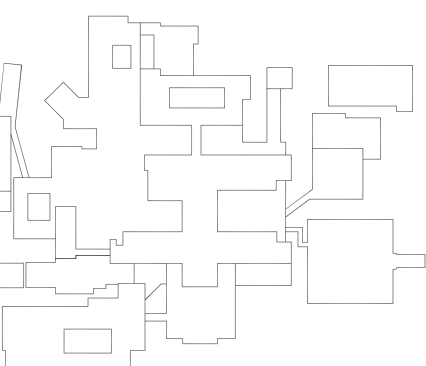
A CONTRACTOR CERTIFIED WITH AABC OR NEBB SHALL PERFORM TESTING AND BALANCING. TAB REPORT SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL.

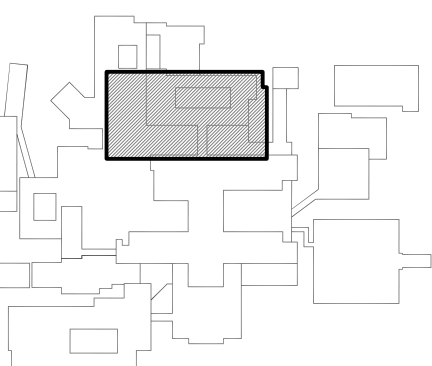
## ALTERNATE #1

- ALTERNATE #1 INCLUDES THE SUBSTITUTION OF SCHEDULE 40 STEEL PIPING FOR CHWS/R DISTRIBUTION FOR PP-RCT SDR 11 PIPING. PIPING SHALL BE BY AQUATHERM, NUPI, OR ENGINEER APPROVED EQUAL. PIPING SHALL BE INSULATED PER PIPING GENERAL NOTES.

SIZES SHOWN ON DRAWING ARE FOR STEEL PIPING. AS PART OF ALTERNATE #1, PIPE SIZES ON DRAWINGS THAT ARE 6" AND SMALLER SHALL BE PER THE DRAWINGS. PIPE SIZES LISTED AS 8" ON DRAWINGS SHALL BE 10" PP-RCT IN ALTERNATE #1.

I.A. BASE PRICING TO INCLUDE THE SCHEDULE 40 STEEL PIPING AS BASIS. PROVIDE ALTERNATE #1 PRICING FOR PP-RCT SDR 11 PIPING AND ALL CHANGES ASSOCIATED WITH THE ALTERNATE PIPING MATERIAL.





NO.	DESCRIPTION	DATE
1	ACHA REVISION	05.19.2026

**SHEET NOTES**

1. AHU-14 CHWS/R CHWS/R COIL CONNECTION.
2. EX. AHU-16 CHWS/R COIL CONNECTION.
3. CHWS/R PIPING PENETRATES FLOOR IN CORRIDOR WALL ABOVE. SEE 1/M1.03 FOR CONTINUATION.
4. EX. CHWS/R PIPING UP IN PIPING CHASE ABOVE. PIPING TO BE REUSED IN NEW WORK PHASE. THE INTENTION IS TO REUSE THE NEWER SET OF PIPE RISERS. SEE 1/M1.03 FOR CONTINUATION.
5. 1/2" CHWS/R PIPING UP TO 2ND FLOOR ABOVE.
6. EXISTING CHWS/R PIPING SECTION TO BE REMOVED WHERE INDICATED. PROVIDE NEW ISOLATION VALVES WHERE PIPING TO REMAIN ACTIVE IS TO BE SEPARATED FROM ABANDONED PIPING. REMOVE VALVE STEMS AFTER COMPLETION OF WORK AND TURN OVER TO FACILITIES MAINTENANCE TEAM. SEE M1.02 FOR CONTINUATION.
7. EXISTING GLYCOL PIPING FROM ROOF ABOVE.
8. EXISTING ABANDONED PIPING IN CHASE. PIPING IS SHOWN FOR REFERENCE ONLY. MODIFY ABANDONED PIPING AS REQUIRED TO FACILITATE COMPLETION OF NEW WORK.

**GENERAL NOTES**

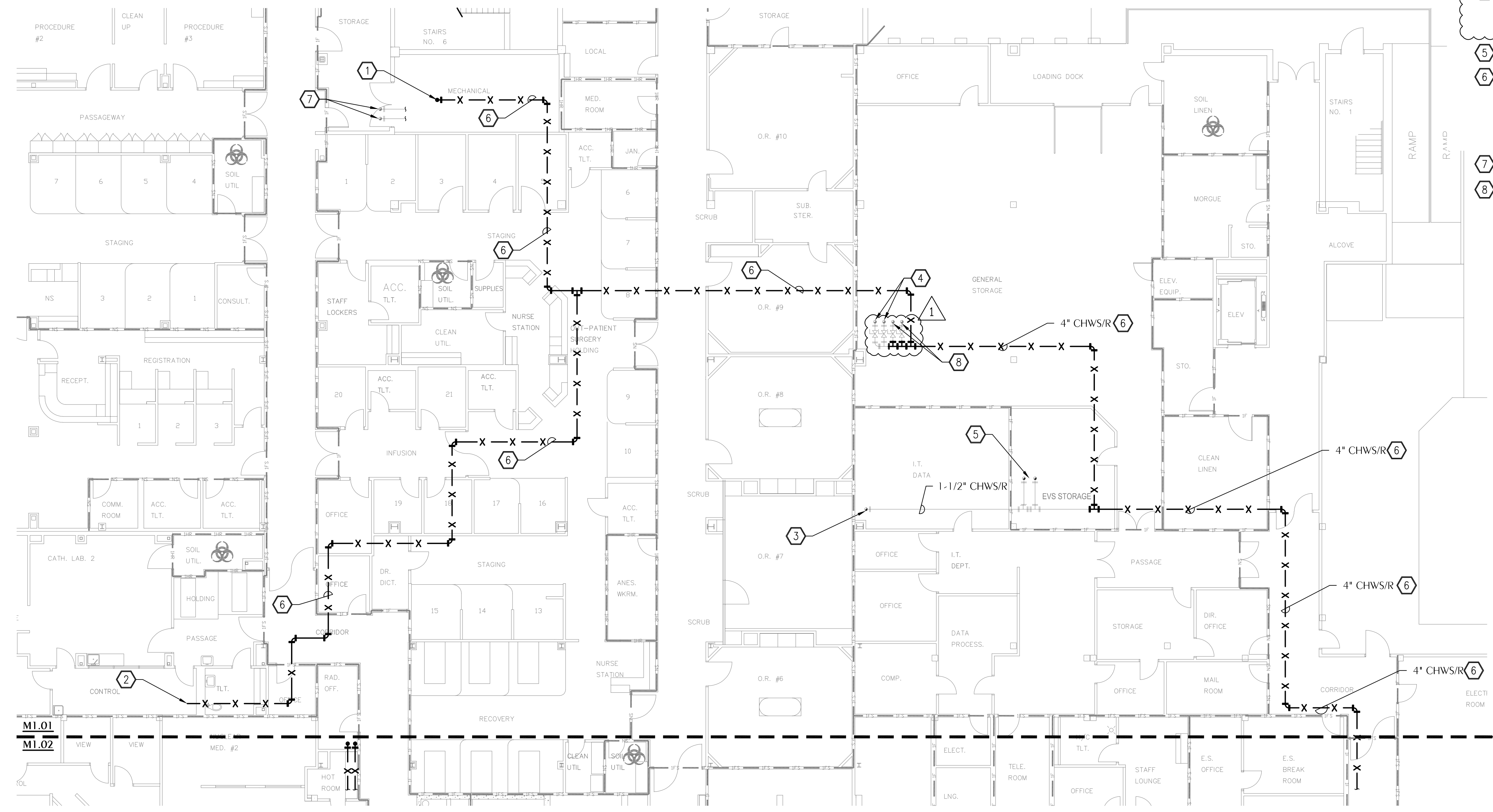
1. WHERE CHWS/R PIPING IS TO BE REMOVED/ABANDONED, EXISTING WALL RATINGS ARE TO BE MAINTAINED. FILL OPENINGS AS REQUIRED TO MAINTAIN FIRE AND SMOKE RATINGS

**ICRA NOTES**

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**WATFORD  
ENGINEERING**  
4452 Clinton Street Marianna, Florida 32446  
2449 Moores Mill Rd, Suite 100 Auburn, AL 36830

Florida CA Number: 27925  
Keith A. Johnson, P.E.  
Florida License Number: 86457  
850.526.3447 / 334.209.0212  
Project Number: 2252497  
Checked By: KAJ  
Drawn By: CHM



**1 HVAC PLAN**  
M1.01 SCALE: 3/32" = 1'-0"

PLOT DATE: 8/10/2025 8:51:42 PM  
 I:\CA\Gulf Coast\ChilledWater\2025\01\01 M1.01.dwg  
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**GENERAL NOTES**

- WHERE CHWS/R PIPING IS TO BE REMOVED/ABANDONED, EXISTING WALL RATINGS ARE TO BE MAINTAINED. FILL OPENINGS AS REQUIRED TO MAINTAIN FIRE AND SMOKE RATINGS

Digital Signature

CONSTRUCTION DOCUMENTS

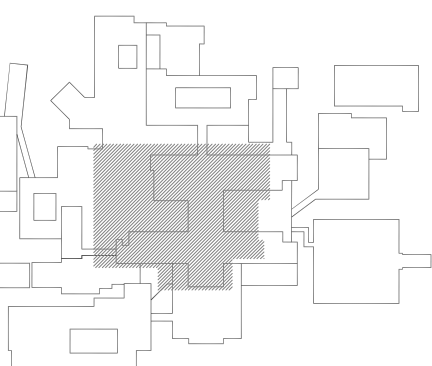


**HCA Florida**  
Gulf Coast Hospital

HCA Florida Gulf Coast Hospital

**CHILLED WATER REPLACEMENT**

449 W. 23RD STREET  
PANAMA CITY, FL 32405



REVISIONS		KEYPLAN
NO.	DESCRIPTION	DATE
1	ACHA REVISION	05.19.2026

Project Number **M25050**  
Dated **01.12.2026**

**FIRST FLOOR -  
HVAC-  
DEMOLITION  
PIPING PLAN  
M1.02**



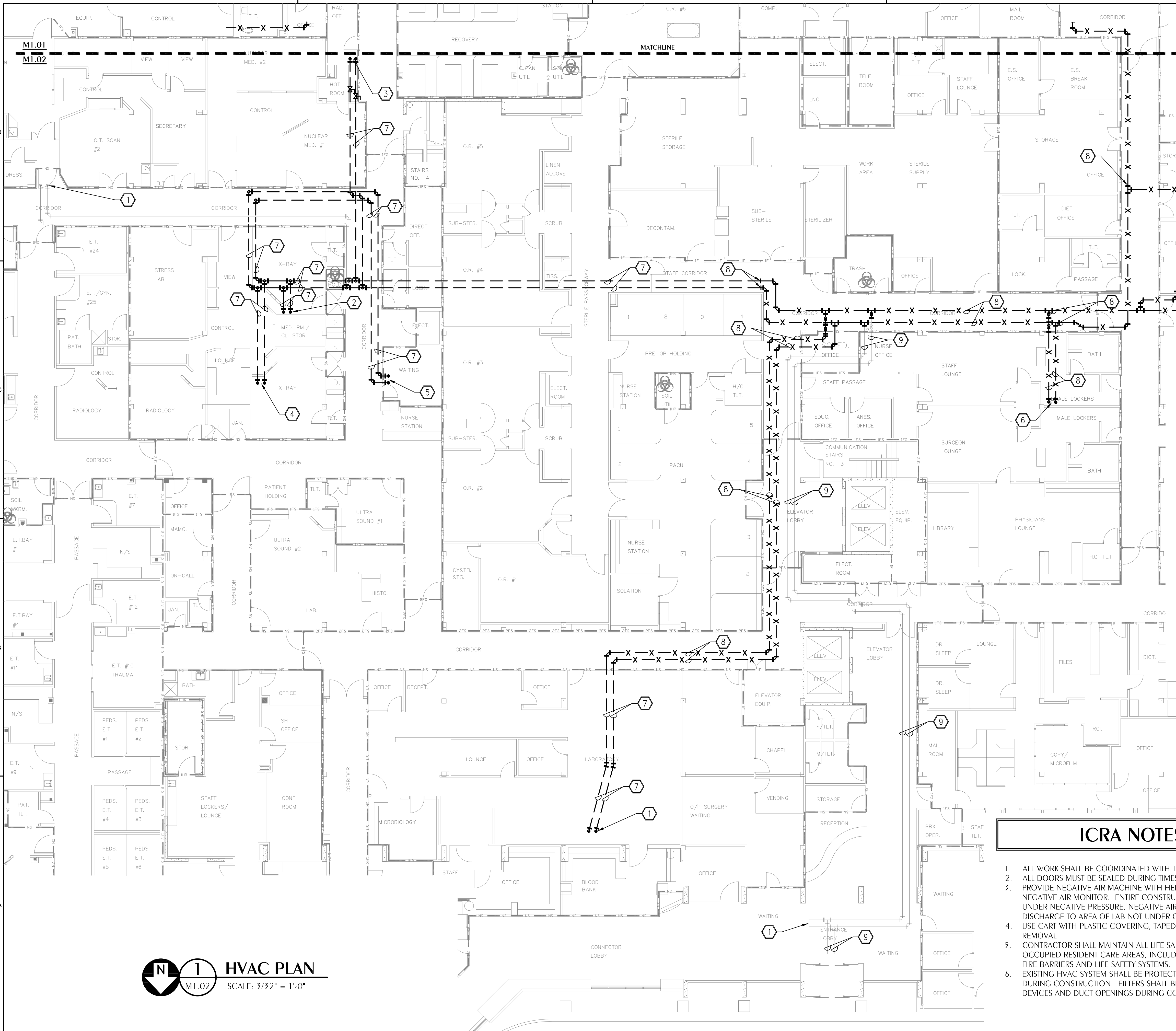
Florida CA Number: 27925  
Keith A. Johnson, P.E.  
Florida License Number: 86457  
850.526.3447 / 334.209.0212  
Project Number: 2252497  
Checked By: KAJ  
Drawn By: CHM

**ICRA NOTES**

- ALL WORK SHALL BE COORDINATED WITH THE FACILITY.
- ALL DOORS MUST BE SEALED DURING TIMES OF CONSTRUCTION.
- PROVIDE NEGATIVE AIR MACHINE WITH HEPA FILTRATION AND NEGATIVE AIR MONITOR. ENTIRE CONSTRUCTION AREA SHALL BE UNDER NEGATIVE PRESSURE. NEGATIVE AIR MACHINE SHALL DISCHARGE TO AREA OF LAB NOT UNDER CONSTRUCTION.
- USE CART WITH PLASTIC COVERING, TAPED CLOSED, FOR DEBRIS REMOVAL
- CONTRACTOR SHALL MAINTAIN ALL LIFE SAFETY FEATURES FOR OCCUPIED RESIDENT CARE AREAS, INCLUDING PROTECTION OF FIRE BARRIERS AND LIFE SAFETY SYSTEMS.
- EXISTING HVAC SYSTEM SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION. FILTERS SHALL BE INSTALLED AT ALL AIR DEVICES AND DUCT OPENINGS DURING CONSTRUCTION.

**SHEET NOTES**

- ABANDONED CHWS/R RUNOUT.
- EX. CHWS/R UP TO AHU-1 THROUGH ROOF ABOVE. REMOVE PIPING AS REQUIRED TO FACILITATE NEW CHWS/R TIE IN FROM ROOF ABOVE.
- EX. CHWS/R UP TO AHU-11.
- EX. CHWS/R UP TO AHU-5 THROUGH ROOF ABOVE. REMOVE PIPING AS REQUIRED TO FACILITATE NEW CHWS/R TIE IN FROM ROOF ABOVE.
- EX. CHWS/R UP TO AHU-2 THROUGH ROOF ABOVE. REMOVE PIPING AS REQUIRED TO FACILITATE NEW CHWS/R TIE IN FROM ROOF ABOVE.
- EX. CHWS/R UP TO AHU-3 THROUGH ROOF ABOVE. REMOVE PIPING AS REQUIRED TO FACILITATE NEW CHWS/R TIE IN FROM ROOF ABOVE.
- EXISTING CHWS/R PIPING SECTION TO BE DRAINED AND ABANDONED IN PLACE WHERE INDICATED. PROVIDE NEW ISOLATION VALVES WHERE PIPING TO REMAIN ACTIVE IS TO BE SEPARATED FROM ABANDONED PIPING. REMOVE VALVE STEMS AFTER COMPLETION OF WORK. SEE M1.01 FOR CONTINUATION.
- EXISTING CHWS/R PIPING SECTION TO BE REMOVED WHERE INDICATED. PROVIDE NEW ISOLATION VALVES WHERE PIPING TO REMAIN ACTIVE IS TO BE SEPARATED FROM ABANDONED PIPING. REMOVE VALVE STEMS AFTER COMPLETION OF WORK. SEE M1.01 FOR CONTINUATION.
- EXISTING CHWS/R RUNOUT TO BE RE-FED FROM ROOF ABOVE. SEE NEW WORK PLANS FOR POINT OF CONNECTION TO EXISTING.



**N** **1** **HVAC PLAN**  
M1.02 SCALE: 3/32" = 1'-0"

PLOT DATE: 8/10/2025 6:02:22 PM I:\Gulf Coast Chilled Water\2025\01\01 M1.02.dwg  
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**SHEET NOTES**

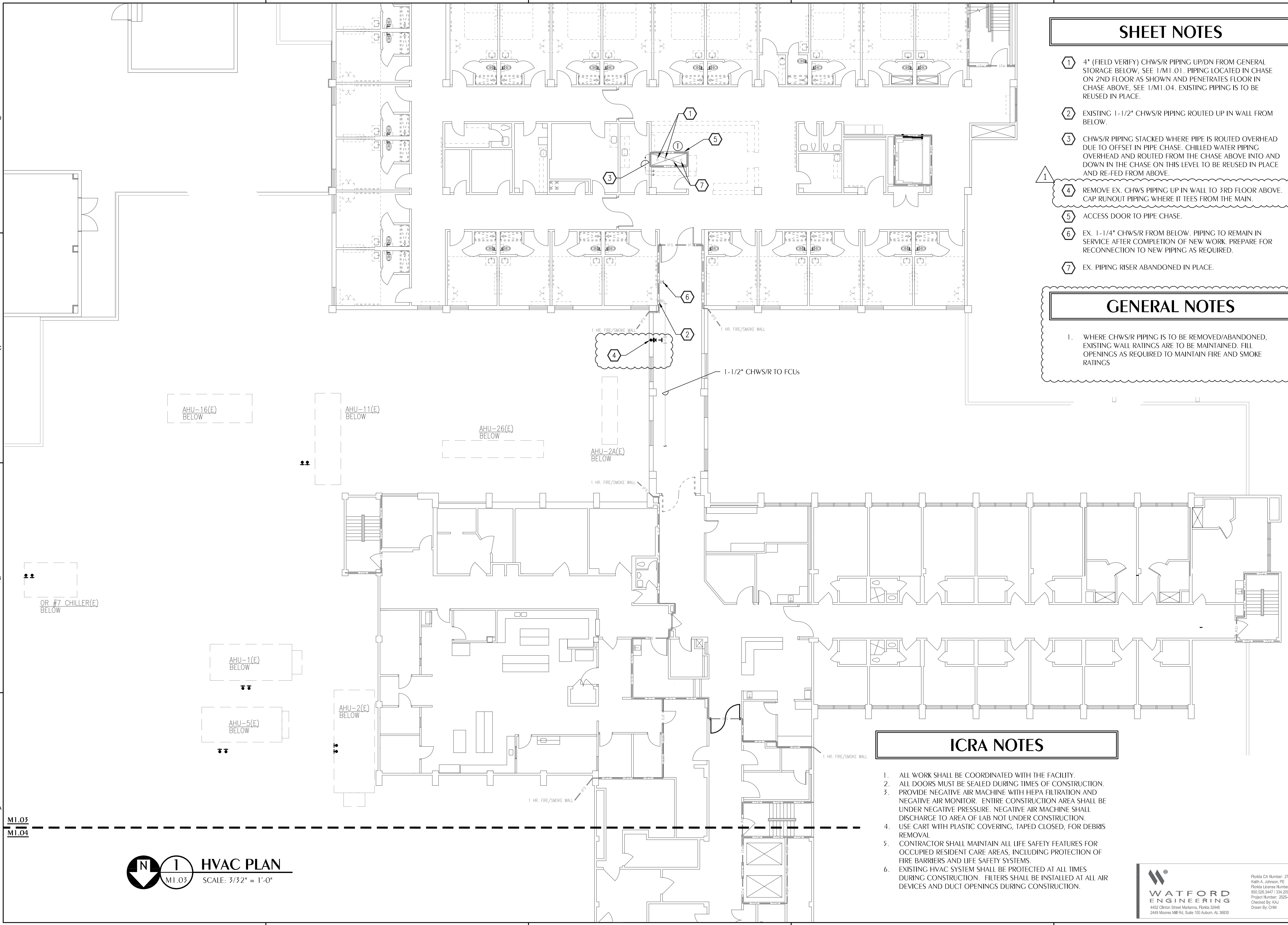
- ① 4" (FIELD VERIFY) CHWS/R PIPING UP/DN FROM GENERAL STORAGE BELOW. SEE 1/M1.01. PIPING LOCATED IN CHASE ON 2ND FLOOR AS SHOWN AND PENETRATES FLOOR IN CHASE ABOVE. SEE 1/M1.04. EXISTING PIPING IS TO BE REUSED IN PLACE.
- ② EXISTING 1-1/2" CHWS/R PIPING ROUTED UP IN WALL FROM BELOW.
- ③ CHWS/R PIPING STACKED WHERE PIPE IS ROUTED OVERHEAD DUE TO OFFSET IN PIPE CHASE. CHILLED WATER PIPING OVERHEAD AND ROUTED FROM THE CHASE ABOVE INTO AND DOWN IN THE CHASE ON THIS LEVEL TO BE REUSED IN PLACE AND RE-FED FROM ABOVE.
- ④ REMOVE EX. CHWS PIPING UP IN WALL TO 3RD FLOOR ABOVE. CAP RUNOUT PIPING WHERE IT TEES FROM THE MAIN.
- ⑤ ACCESS DOOR TO PIPE CHASE.
- ⑥ EX. 1-1/4" CHWS/R FROM BELOW. PIPING TO REMAIN IN SERVICE AFTER COMPLETION OF NEW WORK. PREPARE FOR RECONNECTION TO NEW PIPING AS REQUIRED.
- ⑦ EX. PIPING RISER ABANDONED IN PLACE.

**GENERAL NOTES**

1. WHERE CHWS/R PIPING IS TO BE REMOVED/ABANDONED, EXISTING WALL RATINGS ARE TO BE MAINTAINED. FILL OPENINGS AS REQUIRED TO MAINTAIN FIRE AND SMOKE RATINGS

**ICRA NOTES**

1. ALL WORK SHALL BE COORDINATED WITH THE FACILITY.
2. ALL DOORS MUST BE SEALED DURING TIMES OF CONSTRUCTION.
3. PROVIDE NEGATIVE AIR MACHINE WITH HEPA FILTRATION AND NEGATIVE AIR MONITOR. ENTIRE CONSTRUCTION AREA SHALL BE UNDER NEGATIVE PRESSURE. NEGATIVE AIR MACHINE SHALL DISCHARGE TO AREA OF LAB NOT UNDER CONSTRUCTION.
4. USE CART WITH PLASTIC COVERING, TAPED CLOSED, FOR DEBRIS REMOVAL.
5. CONTRACTOR SHALL MAINTAIN ALL LIFE SAFETY FEATURES FOR OCCUPIED RESIDENT CARE AREAS, INCLUDING PROTECTION OF FIRE BARRIERS AND LIFE SAFETY SYSTEMS.
6. EXISTING HVAC SYSTEM SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION. FILTERS SHALL BE INSTALLED AT ALL AIR DEVICES AND DUCT OPENINGS DURING CONSTRUCTION.



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CONSTRUCTION DOCUMENTS

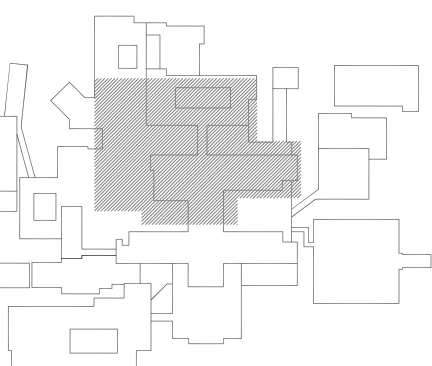


**HCA Florida**  
Gulf Coast Hospital

HCA Florida Gulf Coast Hospital

**CHILLED WATER REPLACEMENT**

449 W. 23RD STREET  
PANAMA CITY, FL 32405



NORTH		KEYPLAN
REVISIONS		
NO.	DESCRIPTION	DATE
1	ACHA REVISION	05.19.2026

Project Number **M25050**  
Dated **01.12.2026**

**SECOND FLOOR- HVAC-DEMOLITION PIPING PLAN**  
**M1.03**

**WATFORD ENGINEERING**  
4452 Clinton Street Marianna, Florida 32446  
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Project Number: 2252497  
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Drawn By: CHM

**N** **1**  
**M1.03** HVAC PLAN  
SCALE: 3/32" = 1'-0"

PLOT DATE: 01/08/2026 09:03:27 PM  
 I:\CA\Gulf Coast Chiller\Mech\2026\01\03\01.M1.03.dwg  
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**SHEET NOTES**

- 1. EXISTING 4" (FIELD VERIFY) CHWS/R PIPING UP FROM CHASE BELOW. PIPING CONTINUES UP INTO MECHANICAL PENTHOUSE ABOVE. PIPING IS TO BE REUSED IN PLACE.

**GENERAL NOTES**

- 1. WHERE CHWS/R PIPING IS TO BE REMOVED/ABANDONED, EXISTING WALL RATINGS ARE TO BE MAINTAINED. FILL OPENINGS AS REQUIRED TO MAINTAIN FIRE AND SMOKE RATINGS

**ICRA NOTES**

- 1. ALL WORK SHALL BE COORDINATED WITH THE FACILITY.
- 2. ALL DOORS MUST BE SEALED DURING TIMES OF CONSTRUCTION.
- 3. PROVIDE NEGATIVE AIR MACHINE WITH HEPA FILTRATION AND NEGATIVE AIR MONITOR. ENTIRE CONSTRUCTION AREA SHALL BE UNDER NEGATIVE PRESSURE. NEGATIVE AIR MACHINE SHALL DISCHARGE TO AREA OF LAB NOT UNDER CONSTRUCTION.
- 4. USE CART WITH PLASTIC COVERING, TAPED CLOSED, FOR DEBRIS REMOVAL
- 5. CONTRACTOR SHALL MAINTAIN ALL LIFE SAFETY FEATURES FOR OCCUPIED RESIDENT CARE AREAS, INCLUDING PROTECTION OF FIRE BARRIERS AND LIFE SAFETY SYSTEMS.
- 6. EXISTING HVAC SYSTEM SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION. FILTERS SHALL BE INSTALLED AT ALL AIR DEVICES AND DUCT OPENINGS DURING CONSTRUCTION.

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CONSTRUCTION DOCUMENTS

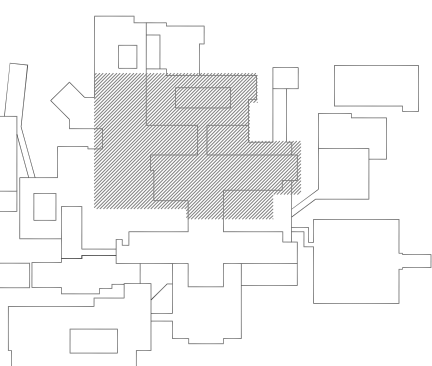


**HCA Florida**  
Gulf Coast Hospital

HCA Florida Gulf Coast Hospital

**CHILLED WATER REPLACEMENT**

449 W. 23RD STREET  
PANAMA CITY, FL 32405

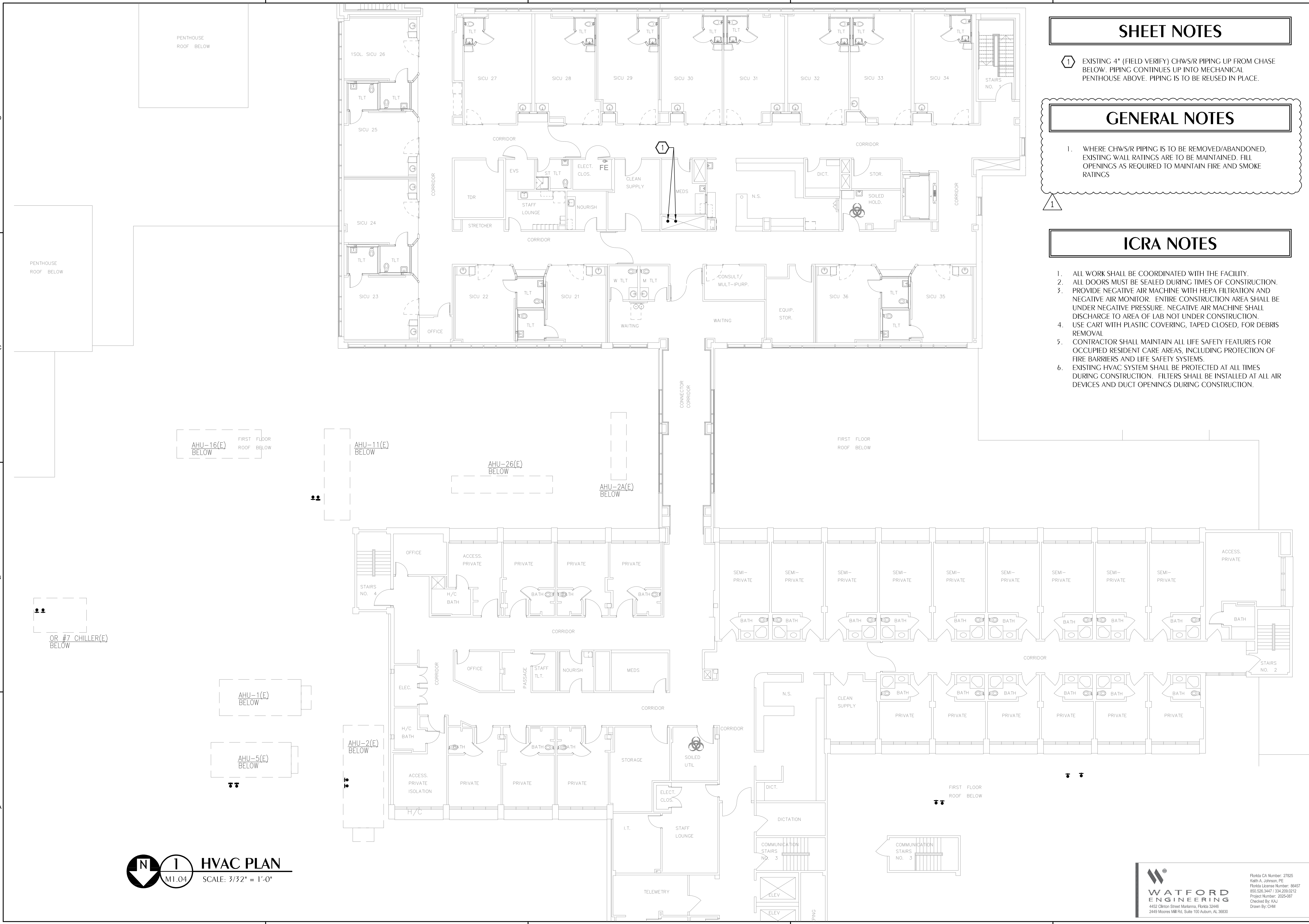


NO.	DESCRIPTION	DATE
1	ACHA REVISION	05.19.2026

Project Number **M25050**  
Dated **01.12.2026**

**THIRD FLOOR-  
HVAC-  
DEMOLITION  
PIPING PLAN  
M1.04**

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**HVAC PLAN**  
M1.04 SCALE: 3/32" = 1'-0"

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Project Number: 2254587  
Checked By: KAJ  
Drawn By: CHM

**SHEET NOTES**

- 1 AHU-14 CHWS/R COIL CONNECTION. AHU-14 SERVES OR 9, 10, AND 11.
- 2 CHWS/R MUST STACK AND CROSS GLYCOL PIPING AS SHOWN WITHIN THE STORAGE ROOM TO AVOID FIRE SUPPRESSION VALVES LOCATED WITHIN ADJACENT MECHANICAL ROOM.
- 3 CHWS/R PIPING PENETRATES FLOOR IN CORRIDOR WALL ABOVE. SEE 1/M2.03 FOR CONTINUATION.
- 4 RECONNECT TO EXISTING ACTIVE 4" CHWS/R PIPING UP IN PIPING CHASE ABOVE. SEE 1/M2.03 FOR CONTINUATION.
- 5 1/2" CHWS/R PIPING UP TO 2ND FLOOR ABOVE.
- 6 REPLACE EXISTING 4" CHWS/R PIPING WHERE IT WAS REMOVED AS SHOWN, PIPING SHOWN SERVES HYDRONIC EQUIPMENT ON FLOOR ABOVE.
- 7 PIPE ROUTING SHOWN IS IN AN EXTREMELY CONGESTED AREA. CONTRACTOR TO FIELD VERIFY ROUTING IS FEASIBLE PRIOR TO FABRICATION OF ANY PIPING OR SUPPORTS. NOTIFY DESIGN TEAM IN THE EVENT PRESS FITTINGS MUST BE USED.
- 8 INSTALL PRV LOCATED WITHIN THE GENERAL STORAGE ROOM.

Digital Signature

CONSTRUCTION DOCUMENTS

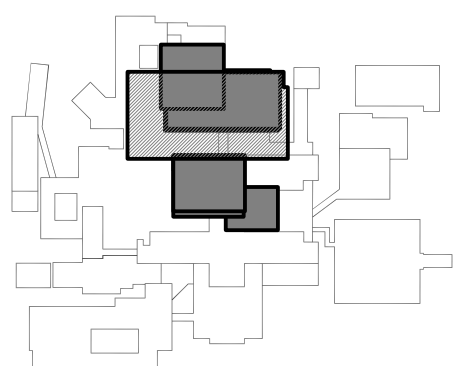


**HCA Florida**  
Gulf Coast Hospital

HCA Florida Gulf Coast Hospital

**CHILLED WATER  
REPLACEMENT**

449 W. 23RD STREET  
PANAMA CITY, FL 32405



NO.	DESCRIPTION	DATE
1	ACHA REVISION	05.19.2026

Project Number **M25050**  
Dated **01.12.2026**

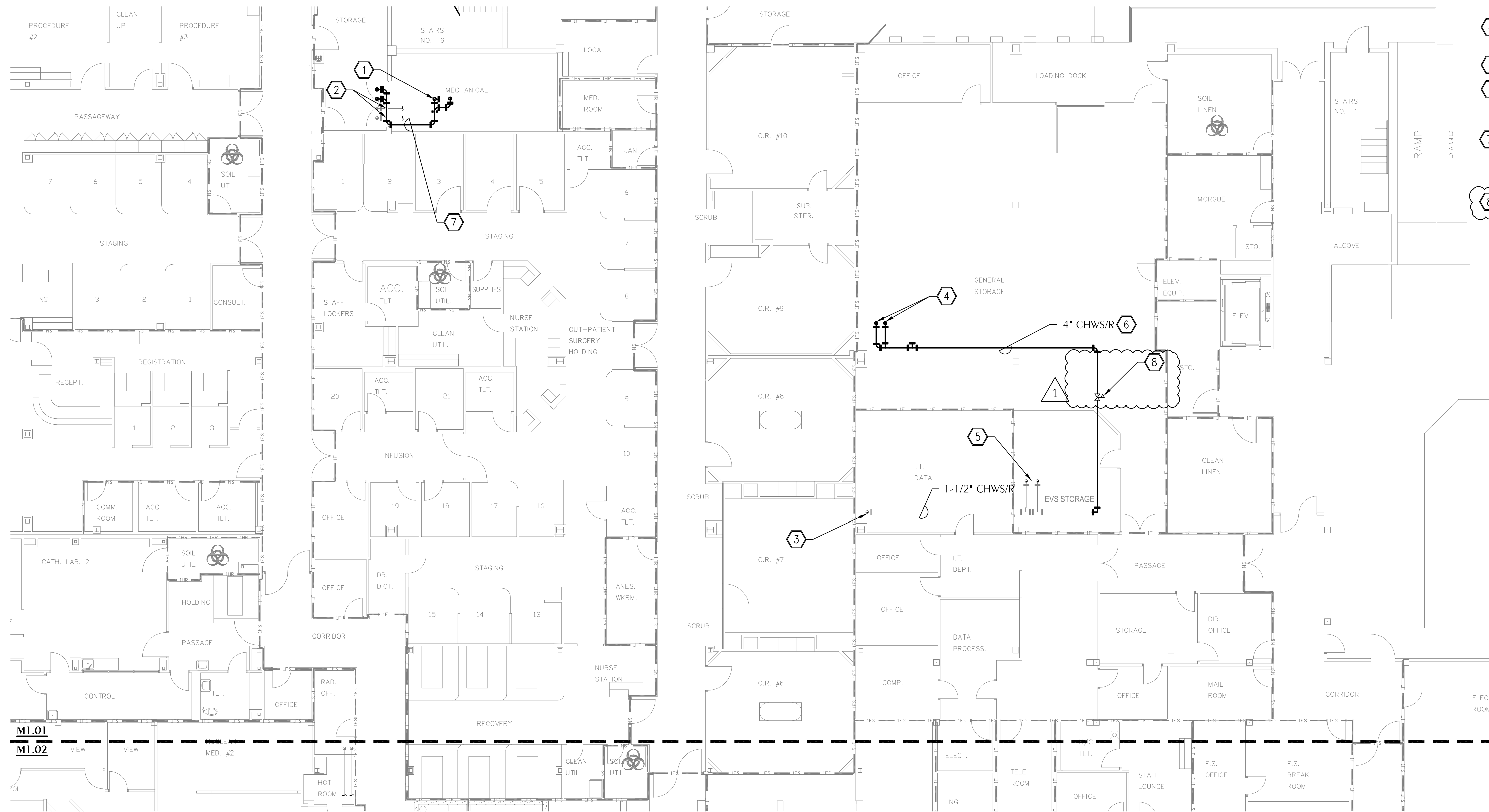
**FIRST FLOOR -  
HVAC- NEW  
WORK PIPING  
PLAN  
M2.01**

**ICRA NOTES**

1. ALL WORK SHALL BE COORDINATED WITH THE FACILITY.
2. ALL DOORS MUST BE SEALED DURING TIMES OF CONSTRUCTION.
3. PROVIDE NEGATIVE AIR MACHINE WITH HEPA FILTRATION AND NEGATIVE AIR MONITOR. ENTIRE CONSTRUCTION AREA SHALL BE UNDER NEGATIVE PRESSURE. NEGATIVE AIR MACHINE SHALL DISCHARGE TO AREA OF LAB NOT UNDER CONSTRUCTION.
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5. CONTRACTOR SHALL MAINTAIN ALL LIFE SAFETY FEATURES FOR OCCUPIED RESIDENT CARE AREAS, INCLUDING PROTECTION OF FIRE BARRIERS AND LIFE SAFETY SYSTEMS.
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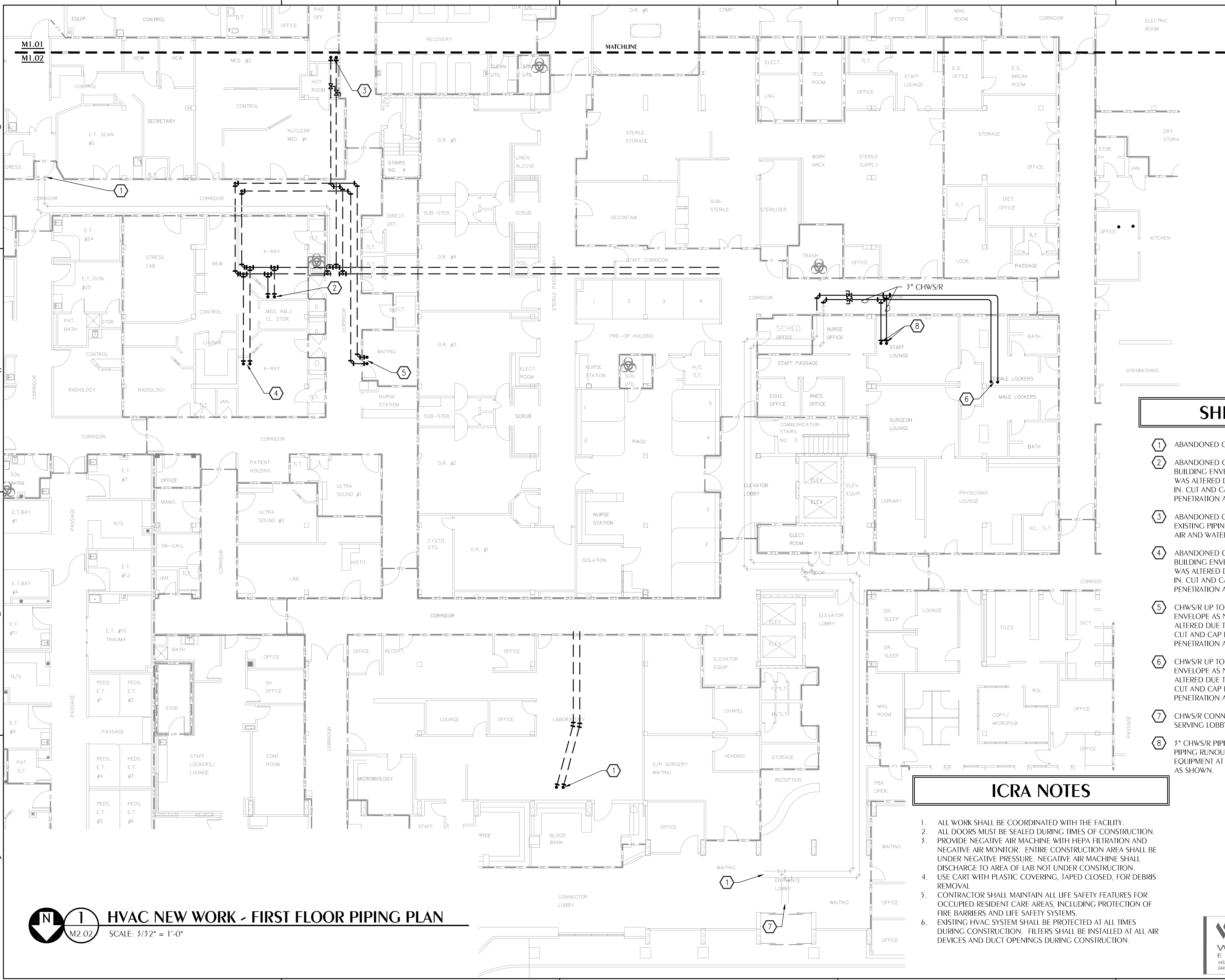
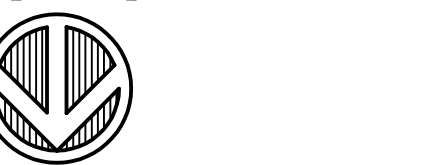
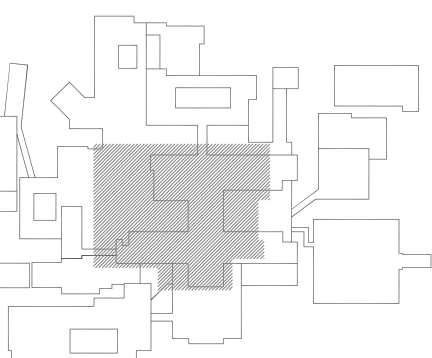


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Project Number: 22524287  
Checked By: KAJ  
Drawn By: CHM



**1 HVAC NEW WORK - FIRST FLOOR PIPING PLAN**  
SCALE: 3/32" = 1'-0"

PLOT DATE: 01/08/2026 10:58 AM  
 I:\CA\Gulf Coast\ChilledWater\2025\01\_M2.01.dwg  
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**SHEET NOTES**

- 1 ABANDONED CHWS/R RUNOUT.
- 2 ABANDONED CHWS/R UP TO AHU-1 ABOVE. REPAIR BUILDING ENVELOPE AS NECESSARY WHERE ENVELOPE WAS ALTERED DUE TO COMPLETION OF NEW CHWS/R TIE IN. CUT AND CAP EXISTING PIPING BELOW ROOF PENETRATION AND SEAL AIR AND WATER TIGHT.
- 3 ABANDONED CHWS/R UP TO AHU-11. CUT AND CAP EXISTING PIPING BELOW ROOF PENETRATION AND SEAL AIR AND WATER TIGHT.
- 4 ABANDONED CHWS/R UP TO AHU-5 ABOVE. REPAIR BUILDING ENVELOPE AS NECESSARY WHERE ENVELOPE WAS ALTERED DUE TO COMPLETION OF NEW CHWS/R TIE IN. CUT AND CAP EXISTING PIPING BELOW ROOF PENETRATION AND SEAL AIR AND WATER TIGHT.
- 5 CHWS/R UP TO AHU-2 ABOVE. REPAIR BUILDING ENVELOPE AS NECESSARY WHERE ENVELOPE WAS ALTERED DUE TO COMPLETION OF NEW CHWS/R TIE IN. CUT AND CAP EXISTING PIPING BELOW ROOF PENETRATION AND SEAL AIR AND WATER TIGHT.
- 6 CHWS/R UP TO AHU-3 ABOVE. REPAIR BUILDING ENVELOPE AS NECESSARY WHERE ENVELOPE WAS ALTERED DUE TO COMPLETION OF NEW CHWS/R TIE IN. CUT AND CAP EXISTING PIPING BELOW ROOF PENETRATION AND SEAL AIR AND WATER TIGHT.
- 7 CHWS/R CONNECTION TO MECHANICAL EQUIPMENT SERVING LOBBY.
- 8 3" CHWS/R PIPING UP TO ROOF ABOVE. RECONNECT TO PIPING RUNOUT SERVING LOBBY MECHANICAL EQUIPMENT AT POINT ABOVE CEILING IN THE CORRIDOR AS SHOWN.

**ICRA NOTES**

- 1. ALL WORK SHALL BE COORDINATED WITH THE FACILITY.
- 2. ALL DOORS MUST BE SEALED DURING TIMES OF CONSTRUCTION.
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Project Number: 2252497  
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Drawn By: CHM

PLOT DATE: 01/12/2026 10:58:38 AM  
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**SHEET NOTES**

- 1 EXISTING 4" CHWS/R PIPING TO REMAIN. DOWN IN CHASE BELOW.

**ICRA NOTES**

1. ALL WORK SHALL BE COORDINATED WITH THE FACILITY.
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Digital Signature

CONSTRUCTION DOCUMENTS

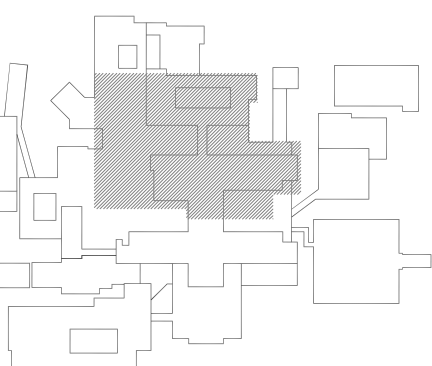


**HCA Florida**  
Gulf Coast Hospital

HCA Florida Gulf Coast Hospital

**CHILLED WATER REPLACEMENT**

449 W. 23RD STREET  
PANAMA CITY, FL 32405



NORTH KEYPLAN  
REVISIONS  
NO. DESCRIPTION DATE

Project Number **M25050**  
Dated **01.12.2026**

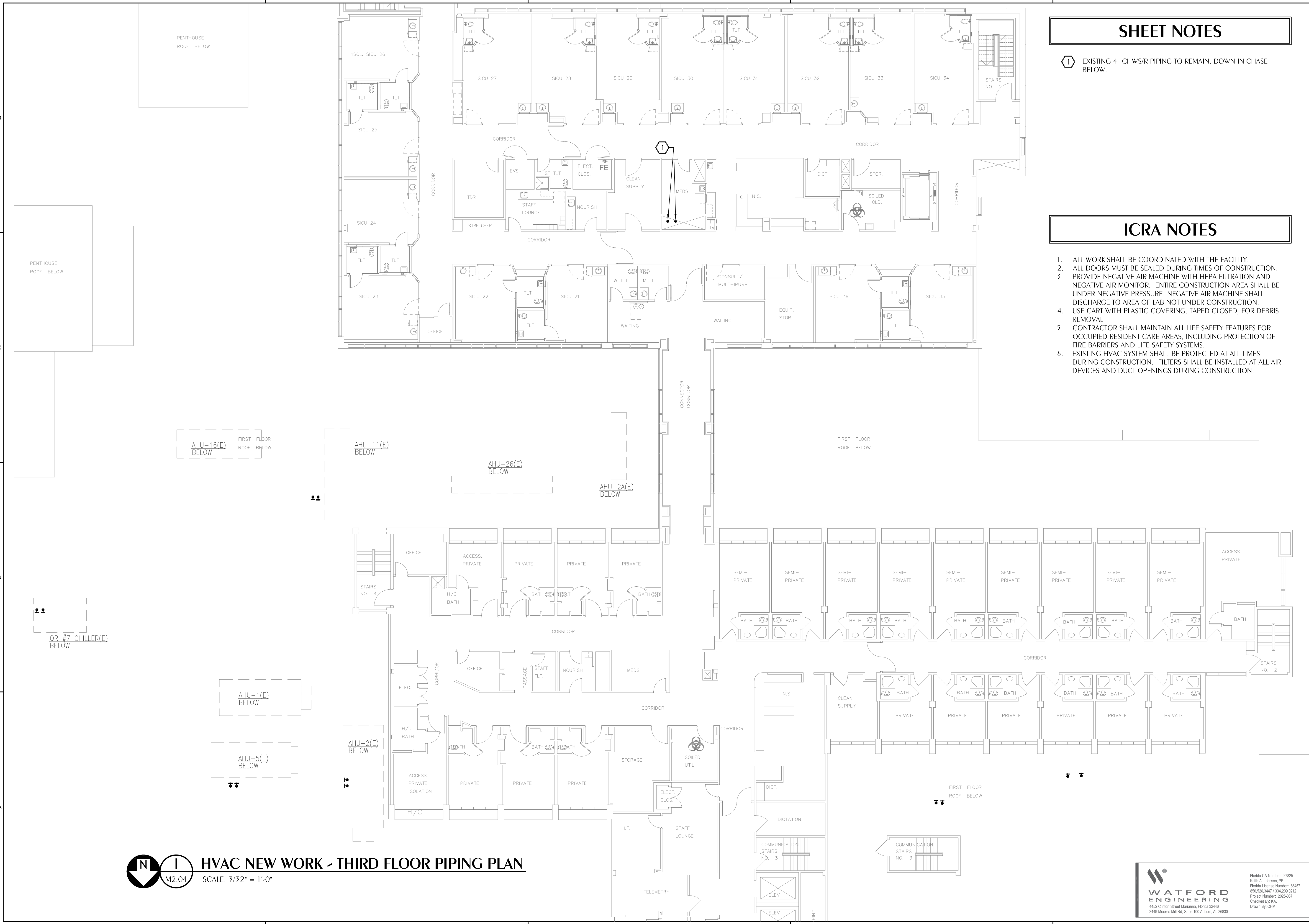
**THIRD FLOOR-  
HVAC- NEW  
WORK PIPING  
PLAN  
M2.04**

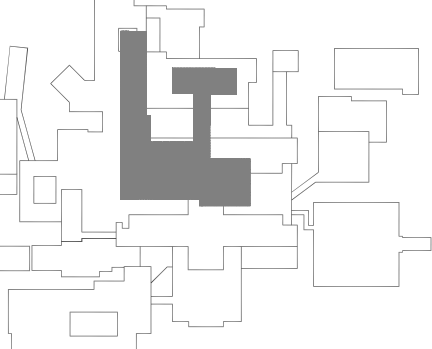
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850.526.3447 / 334.209.0212  
Project Number: 22254287  
Checked By: KAJ  
Drawn By: CHM

**1 HVAC NEW WORK - THIRD FLOOR PIPING PLAN**  
SCALE: 3/32" = 1'-0"

PLOT DATE: 8/10/2025 6:58:07 PM  
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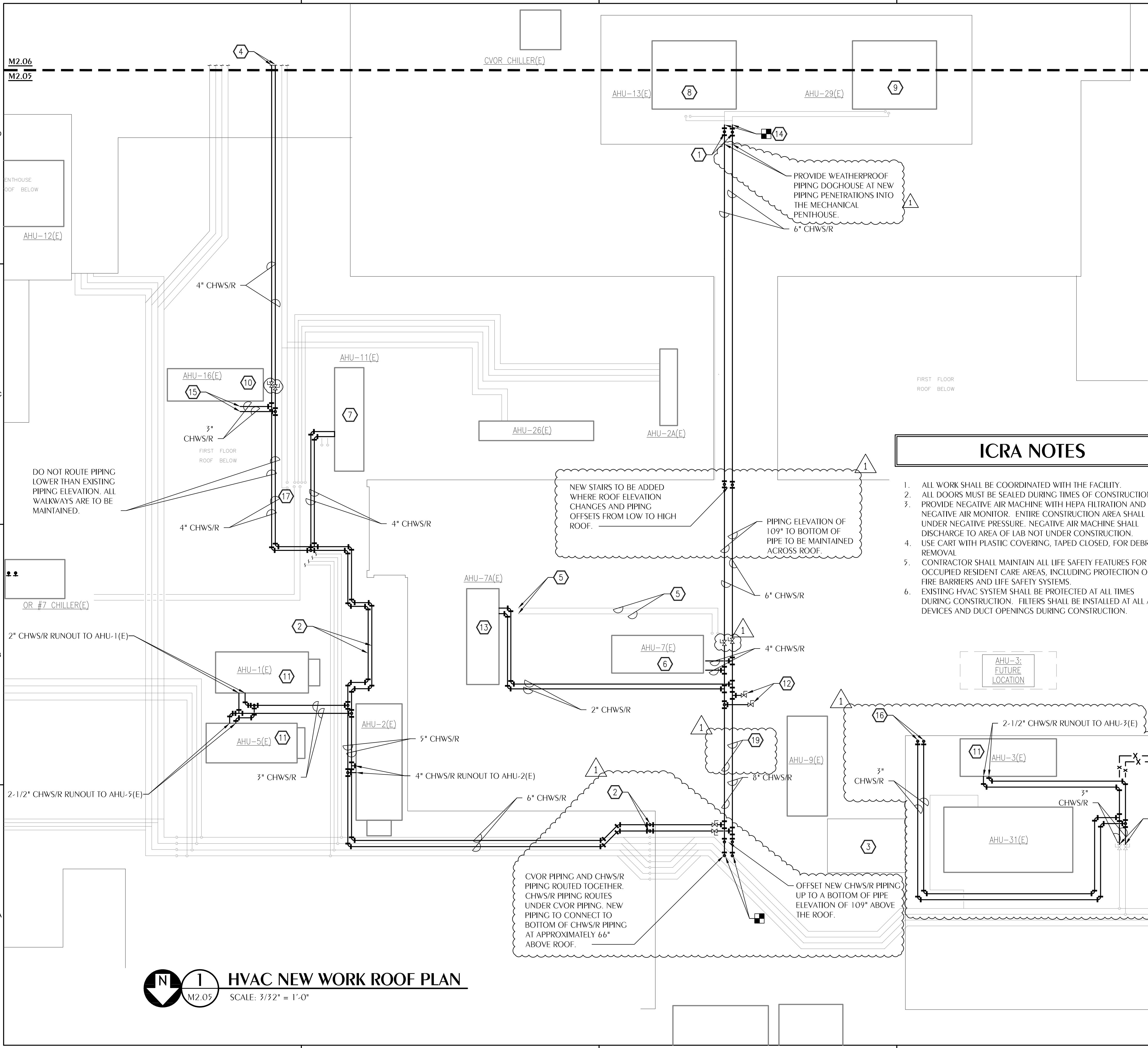
NO.	DESCRIPTION	DATE
1	ACHA REVISION	05.19.2026

**SHEET NOTES**

- 1 NEW 6" CHWS/R PIPING DN IN CHASE BELOW TO RE-FEED CHWS/R RUNOUTS ON LEVEL 1. AHU-13 AND AHU-29 ARE LOCATED IN MECHANICAL PENTHOUSE AND ARE TO BE RECONNECTED TO NEW CHWS/R MAIN.
- 2 NEW 5" CHWS/R TO BE ROUTED ALONGSIDE EXISTING CHILLED WATER PIPE. INSTALL INDEPENDENT PIPING SUPPORTS FOR NEW CHILLED WATER PIPING. AUTO AIR VENTS TO BE INSTALLED AT HIGH POINTS IN PIPING AND HARD PIPED TO THE NEAREST ROOF DRAIN.
- 3 STAIR ACCESS TO ROOF.
- 4 SEE SHEET M2.06 FOR AHU-14 CHWS/R RUNOUT CONTINUATION.
- 5 EXISTING CHWS/R PIPING FOR AHU-7A TO BE ABANDONED IN PLACE. REMOVE EXISTING PIPING AS REQUIRED AT THE COIL CONNECTION TO FACILITATE NEW CHWS/R CONNECTION TO THE EXISTING AHU-7A COIL.
- 6 EXISTING AHU-7 IS CURRENTLY FED FROM BELOW. THE EXISTING AHU-7 COIL CONNECTION IS TO BE REWORKED TO TIE INTO NEW 4" CHWS/R RUNOUT ON THE ROOF. EXISTING PIPING PENETRATING THE ROOF TO BE CAPPED AND SEALED AIR AND WATER TIGHT ABOVE THE ROOF AT THE EXTENT OF DEMOLITION. AHU-7 CURRENTLY SERVES THE PHARMACY.
- 7 EXISTING AHU-11 IS CURRENTLY FED FROM BELOW AND SERVES OPERATING ROOM 6 AND 8. THE EXISTING AHU-11 COIL CONNECTION IS TO BE REWORKED TO TIE INTO NEW 4" CHWS/R RUNOUT ON THE ROOF. REMOVE EXISTING CHWS/R PIPING SERVING AHU-11 AS REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW CHWS/R PIPING. EXISTING PIPING PENETRATING THE ROOF TO BE CAPPED AND SEALED AIR AND WATER TIGHT ABOVE THE ROOF AT THE EXTENT OF DEMOLITION.
- 8 EXISTING AHU-13 SERVES 2S, SUPPLY CHAIN, AND THE MORGUE.
- 9 EXISTING AHU-29 SERVES ROOMS 357-372.
- 10 EXISTING AHU-16 SERVES CATH 2 LAB.
- 11 EXISTING AHU-1, AHU-3, AND AHU-5 ARE FED FROM BELOW THROUGH THE ROOF. PENETRATE AHU HOUSING AT MAINTENANCE ACCESS PANEL DOOR WITH FULLY INSULATED CHWS/R PIPING RUNOUTS TO RECONNECT TO COOLING COIL FROM POINT ABOVE THE ROOF. PROVIDE SHUTOFF VALVES ON THE EXTERIOR OF THE UNIT AND SEAL UNIT AIR AND WATER TIGHT.
- 12 PROVIDE 2-1/2" STUB OUTS WITH FLANGED BUTTERFLY VALVES FOR FUTURE CONNECTION OF CHWS/R TO THE FUTURE LOCATION OF AHU-3.
- 13 EXISTING AHU-7A SERVES PCU. AHU-7A TO BE RE-FED FROM THE NEW CHWS/R MAIN ROUTED ACROSS THE ROOF.
- 14 RECONNECT AHU-13 AND AHU-29 CHWS/R PIPING LOCATED WITHIN THE MECHANICAL PENTHOUSE TO NEW 6" CHWS/R PIPING ENTERING PENTHOUSE.
- 15 AHU-16 CHWS/R COIL CONNECTION. DURING TAB, FLOW RATE THROUGH AHU-16 TO BE ADJUSTED TO MEET LEAVING AIR CONDITIONS DESIRED WITHIN THE AREA SERVED (CATH 2 LAB)
- 16 3" CWS/R DN INTO CEILING CAVITY OVERHEAD IN THE FIRST FLOOR STAFF LOUNGE. SEE SHEET M2.02.
- 17 EXISTING STAIRS OVER RACKED PIPING ON ROOF IN THIS AREA. COORDINATE NEW PIPING TO ROUTE UNDER THE EXISTING STAIR.
- 18 REMOVE CHWS/R PIPING FROM VALVES THROUGH ROOF. CONNECT NEW 3" CHWS/R PIPING TO EXISTING VALVES.
- 19 PIPING SHALL OFFSET AND ROUTE ACROSS ROOF WITH THE ELEVATION OF THE BOTTOM OF THE PIPE AT 96" ABOVE THE ROOF.

**ICRA NOTES**

1. ALL WORK SHALL BE COORDINATED WITH THE FACILITY.
2. ALL DOORS MUST BE SEALED DURING TIMES OF CONSTRUCTION.
3. PROVIDE NEGATIVE AIR MACHINE WITH HEPA FILTRATION AND NEGATIVE AIR MONITOR. ENTIRE CONSTRUCTION AREA SHALL BE UNDER NEGATIVE PRESSURE. NEGATIVE AIR MACHINE SHALL DISCHARGE TO AREA OF LAB NOT UNDER CONSTRUCTION.
4. USE CART WITH PLASTIC COVERING, TAPED CLOSED, FOR DEBRIS REMOVAL
5. CONTRACTOR SHALL MAINTAIN ALL LIFE SAFETY FEATURES FOR OCCUPIED RESIDENT CARE AREAS, INCLUDING PROTECTION OF FIRE BARRIERS AND LIFE SAFETY SYSTEMS.
6. EXISTING HVAC SYSTEM SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION. FILTERS SHALL BE INSTALLED AT ALL AIR DEVICES AND DUCT OPENINGS DURING CONSTRUCTION.



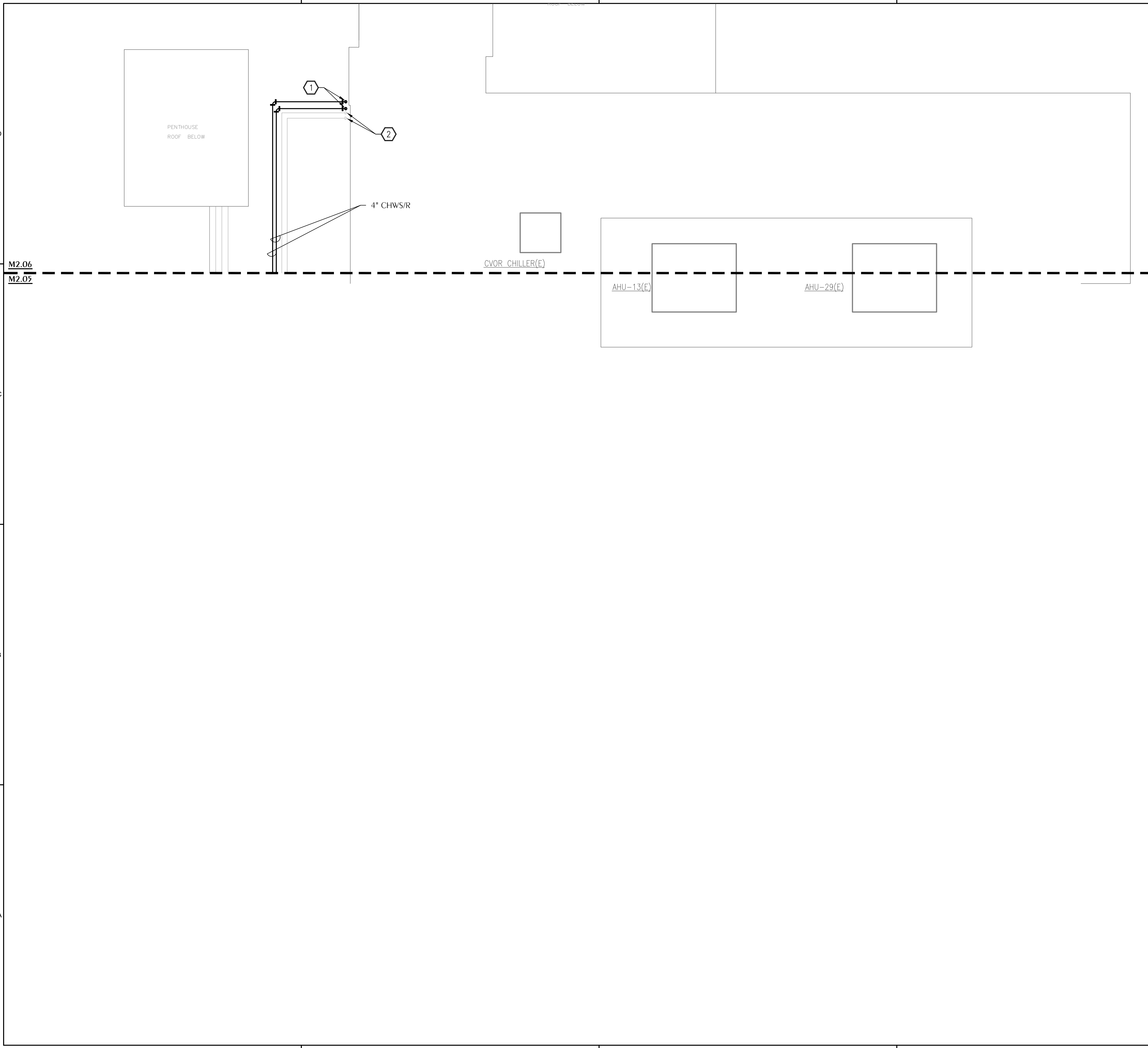
**N** **1** **M2.05** **HVAC NEW WORK ROOF PLAN**  
SCALE: 3/32" = 1'-0"

**WATFORD**  
ENGINEERING  
4452 Clinton Street Marietta, Florida 32446  
2449 Moores Mill Rd, Suite 100 Auburn, AL 36830

Florida CA Number: 27925  
Keith A. Johnson, P.E.  
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850.526.3447 / 334.216.0212  
Project Number: 2252497  
Checked By: KAJ  
Drawn By: CHM

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### SHEET NOTES

- ① NEW 4" CHWS/R PIPING ROUTED TO AHU-14 DOWN BELOW. SEE SHEET M2.01 FOR CONTINUATION.
- ② EXISTING GLYCOL PIPING SERVING AHU-14. COORDINATE LOCATION OF NEW 4" CHWS/R PIPING WITH THE EXISTING GLYCOL ROOF PENETRATIONS.

### ICRA NOTES

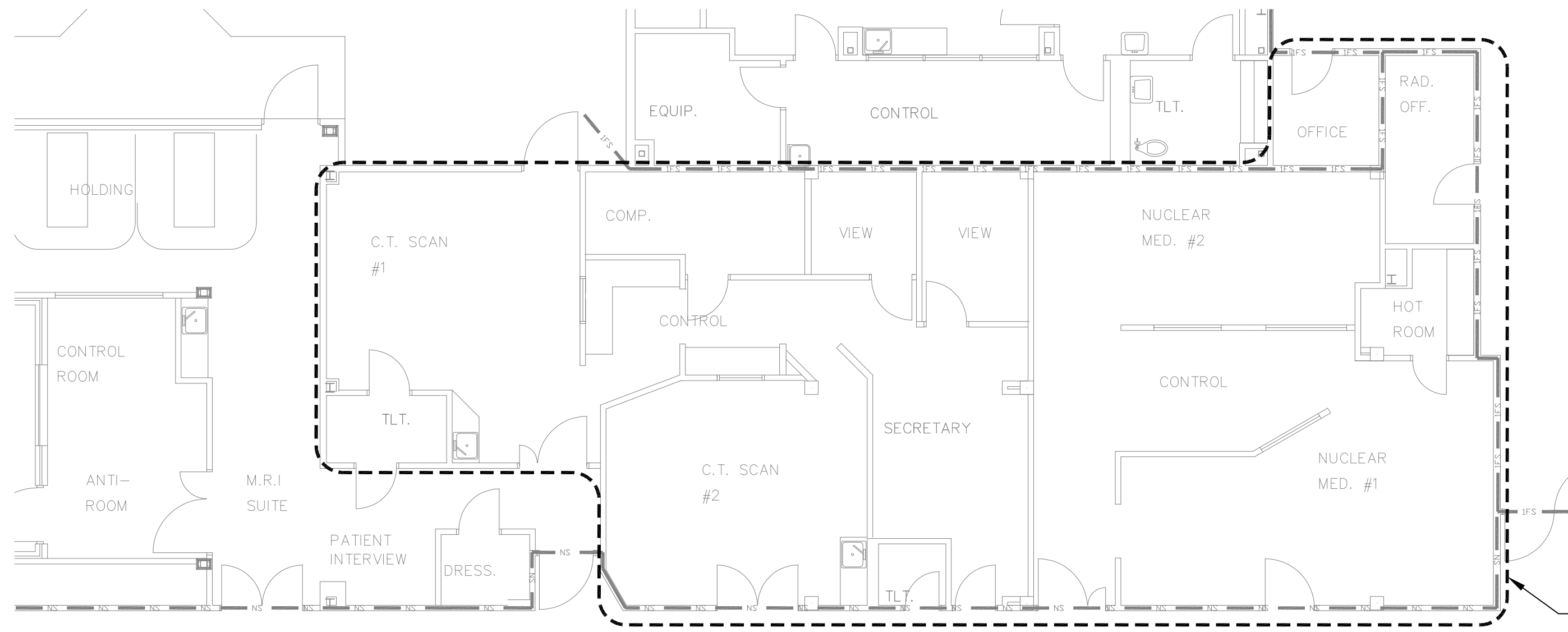
1. ALL WORK SHALL BE COORDINATED WITH THE FACILITY.
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4. USE CART WITH PLASTIC COVERING, TAPED CLOSED, FOR DEBRIS REMOVAL.
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6. EXISTING HVAC SYSTEM SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION. FILTERS SHALL BE INSTALLED AT ALL AIR DEVICES AND DUCT OPENINGS DURING CONSTRUCTION.

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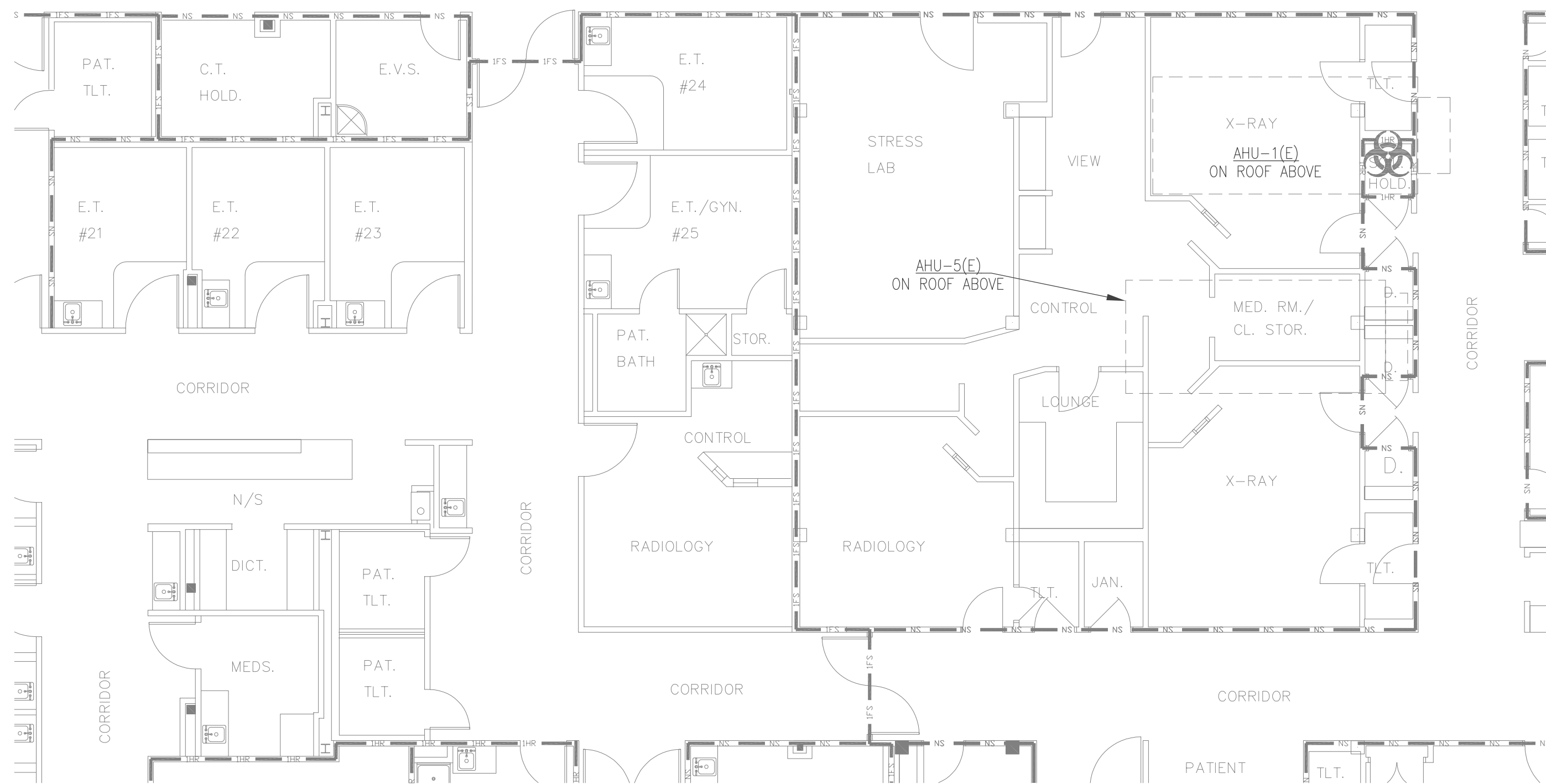


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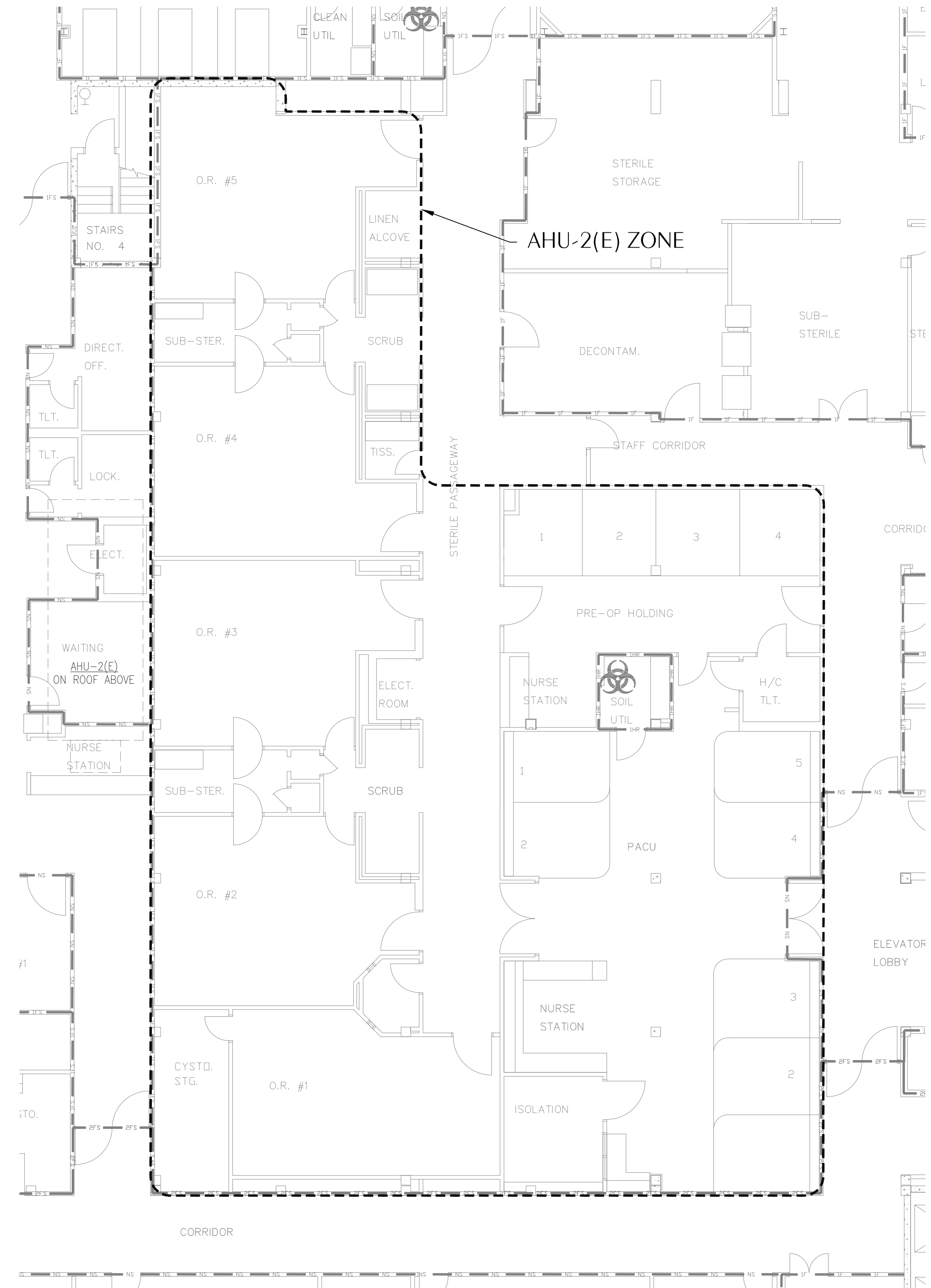
Project Number	M25050
Dated	01.12.2026



AHU-1(E) ZONE



**1** AHU-1(E) ZONE EXTENTS  
M3.01 SCALE: 1/8" = 1'-0"

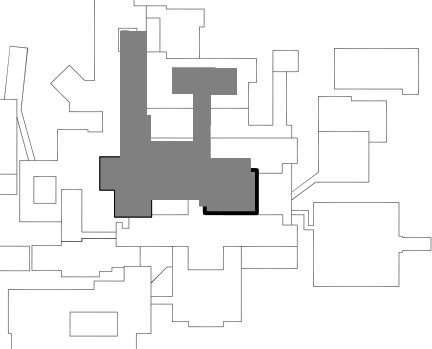


**2** AHU-2(E) ZONE EXTENTS  
M3.01 SCALE: 1/8" = 1'-0"

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Florida License Number: 86457  
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Project Number: 2225497  
Checked By: KAJ  
Drawn By: CHM

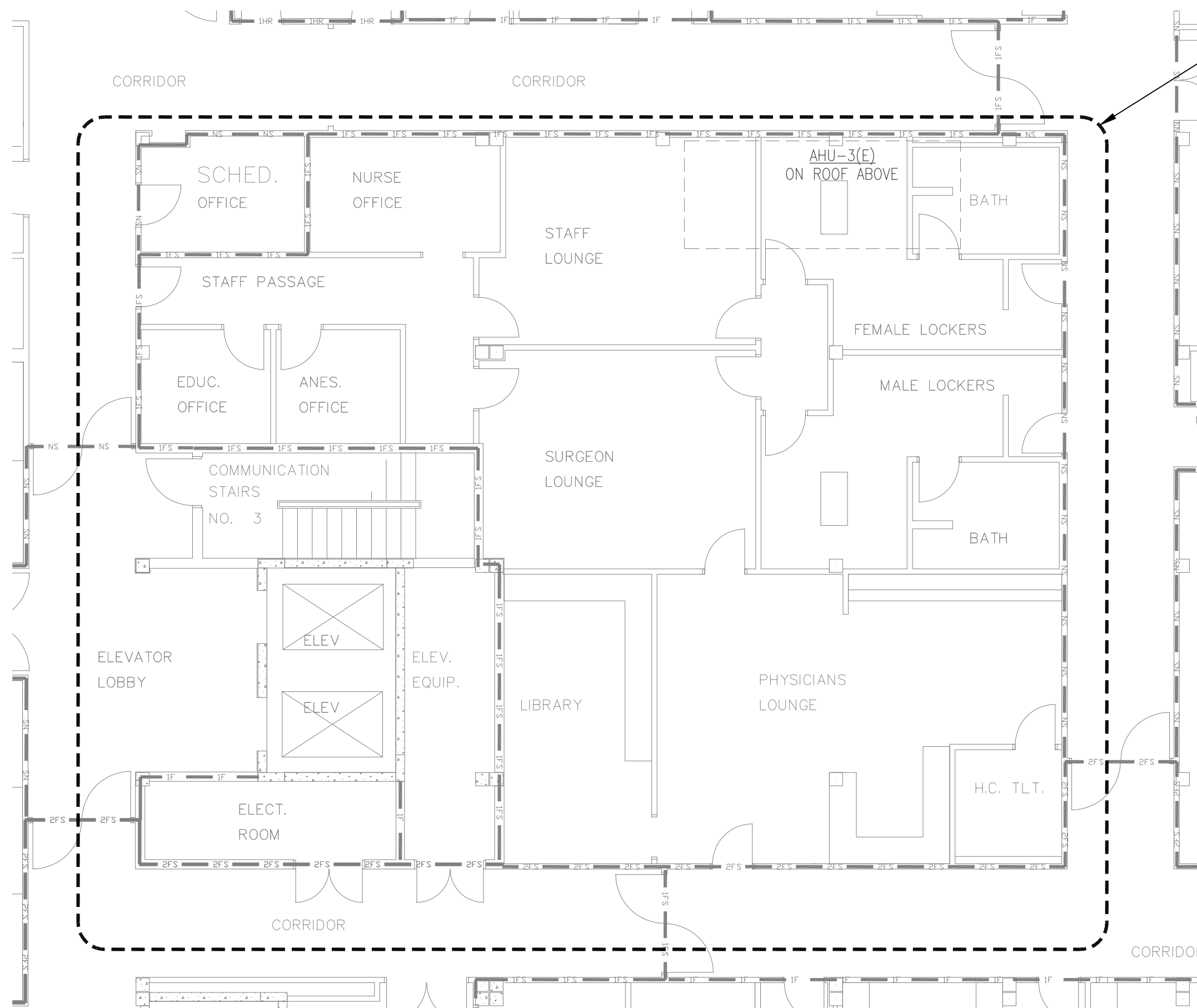
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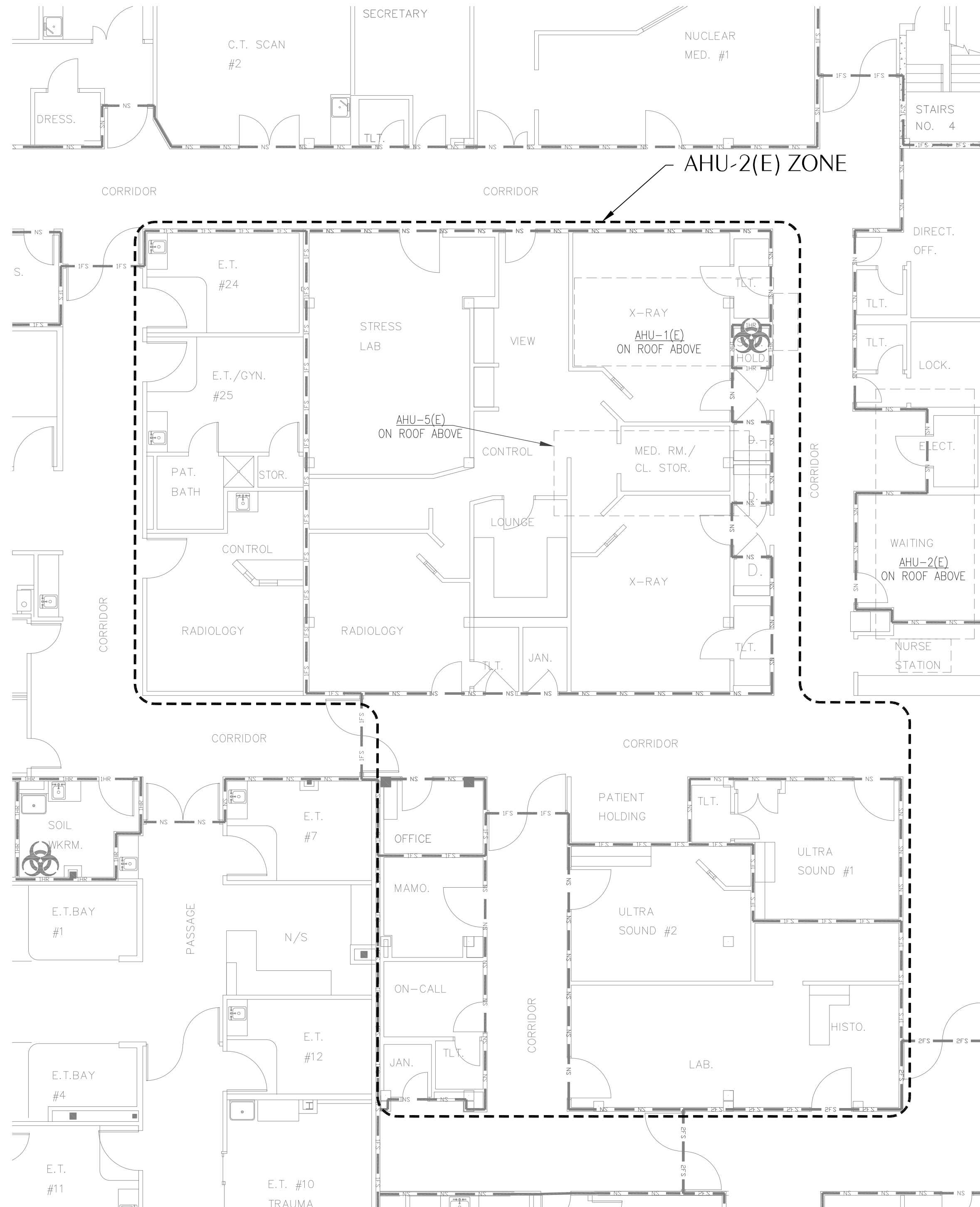
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NO.	DESCRIPTION

Project Number	<b>M25050</b>
Dated	<b>01.12.2026</b>

EXISTING  
ZONING  
**M3.02**



**1 AHU-3(E) ZONE EXTENTS**  
SCALE: 1/8" = 1'-0"



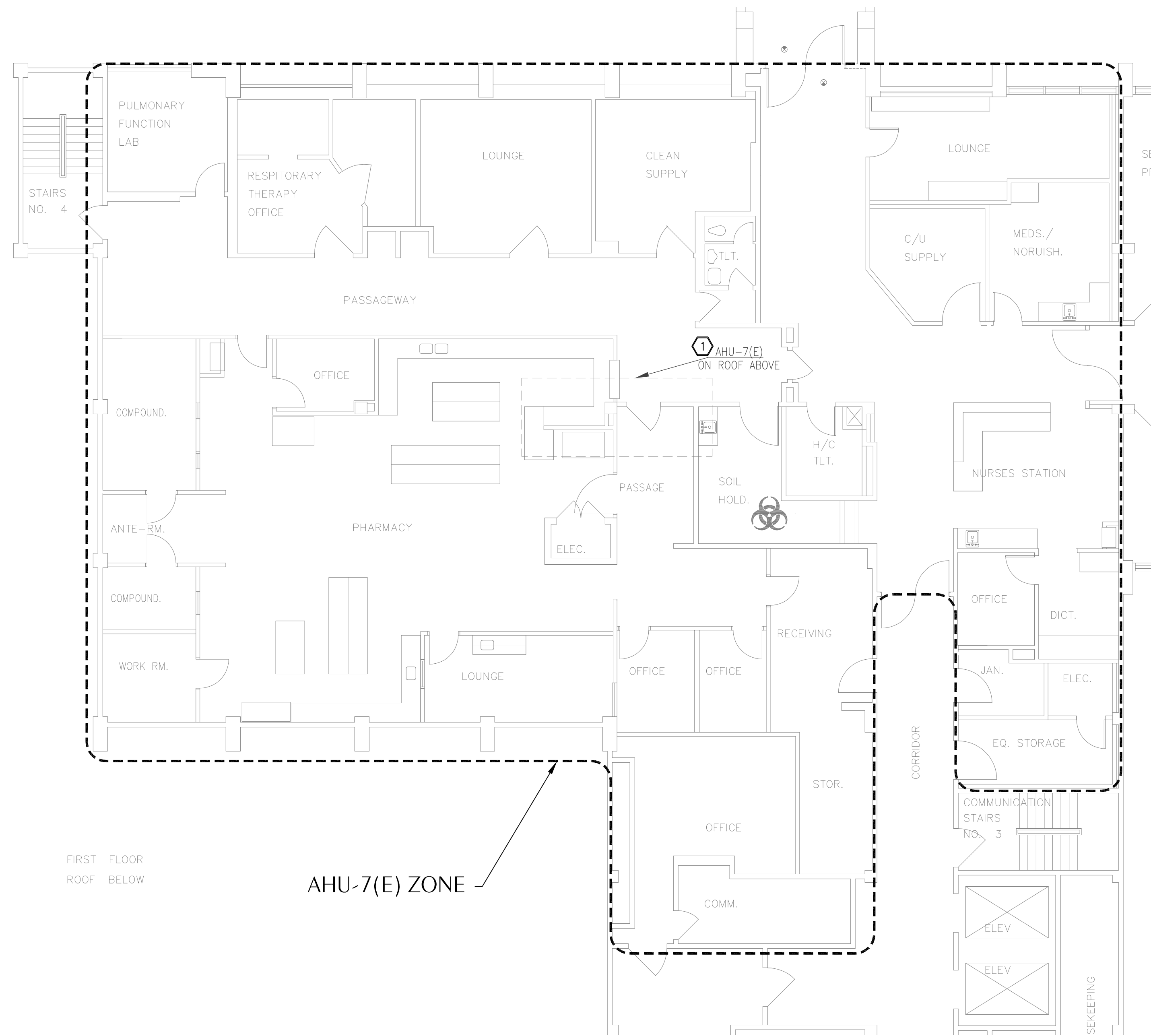
**2 AHU-5(E) ZONE EXTENTS**  
SCALE: 1/8" = 1'-0"

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 Project Number: 2254587  
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 Drawn By: CHM

**SHEET NOTES**

① AHU-7(E) IS LOCATED ON THE 3RD FLOOR ROOF. THE DUCT ROUTES ALONG THE ROOF AND DOWN THE EXTERIOR FACE OF THE BUILDING TO SERVE THE 2ND FLOOR ZONE DEPICTED ON THIS SHEET.



FIRST FLOOR  
ROOF BELOW

AHU-7(E) ZONE

**AHU-7(E) ZONE EXTENTS**  
SCALE: 1/8" = 1'-0"

Digital Signature  
**CONSTRUCTION DOCUMENTS**

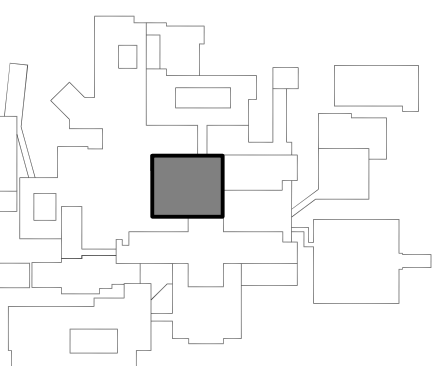


**HCA Florida**  
Gulf Coast Hospital

HCA Florida Gulf Coast Hospital

**CHILLED WATER  
REPLACEMENT**

449 W. 23RD STREET  
PANAMA CITY, FL 32405



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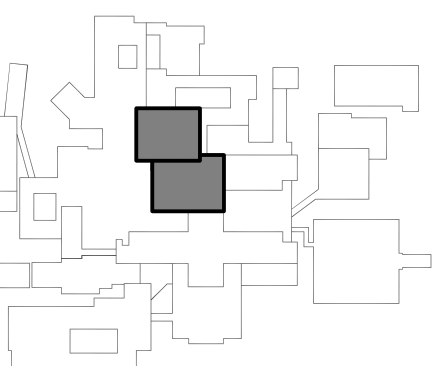
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**EXISTING  
ZONING  
M3.03**

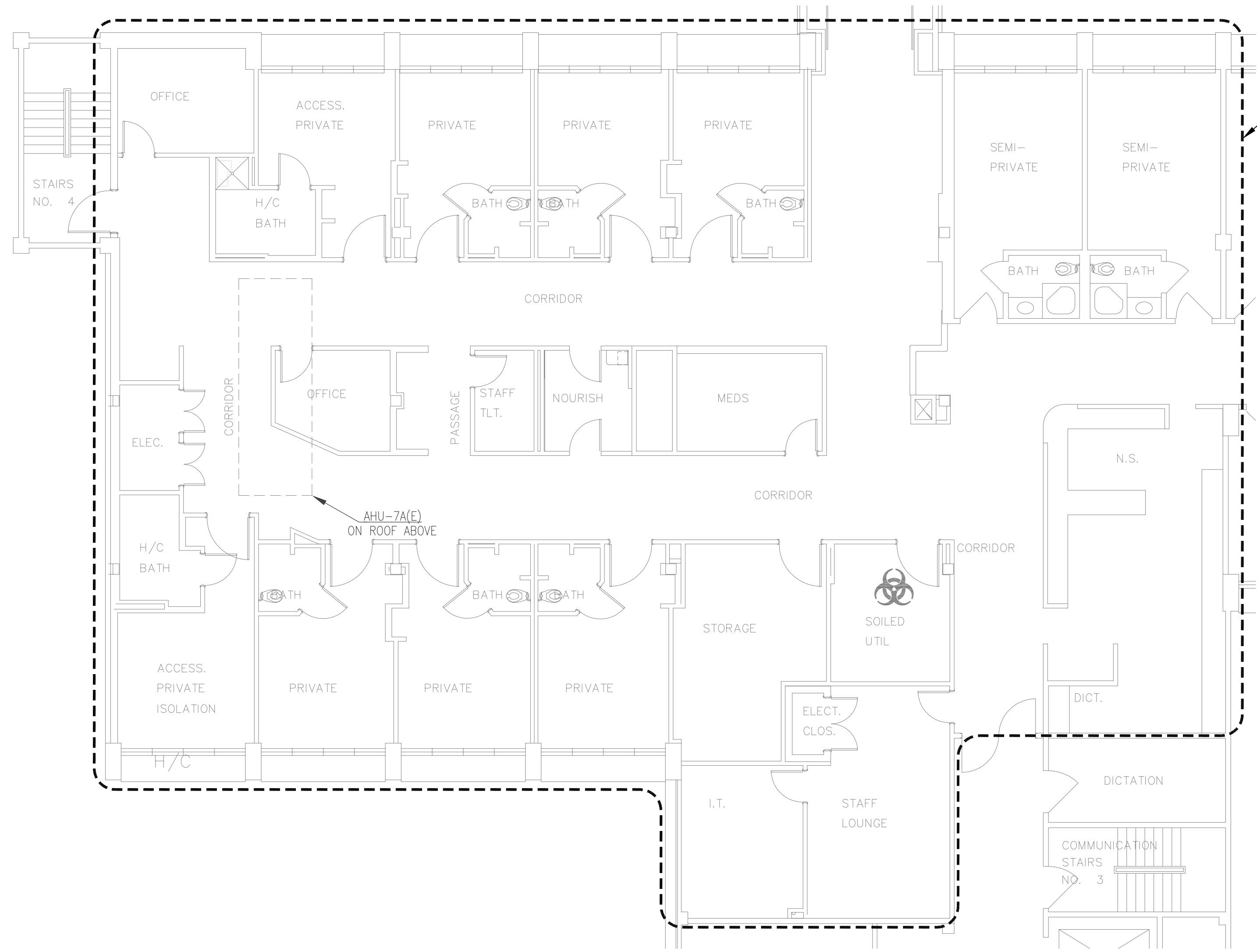
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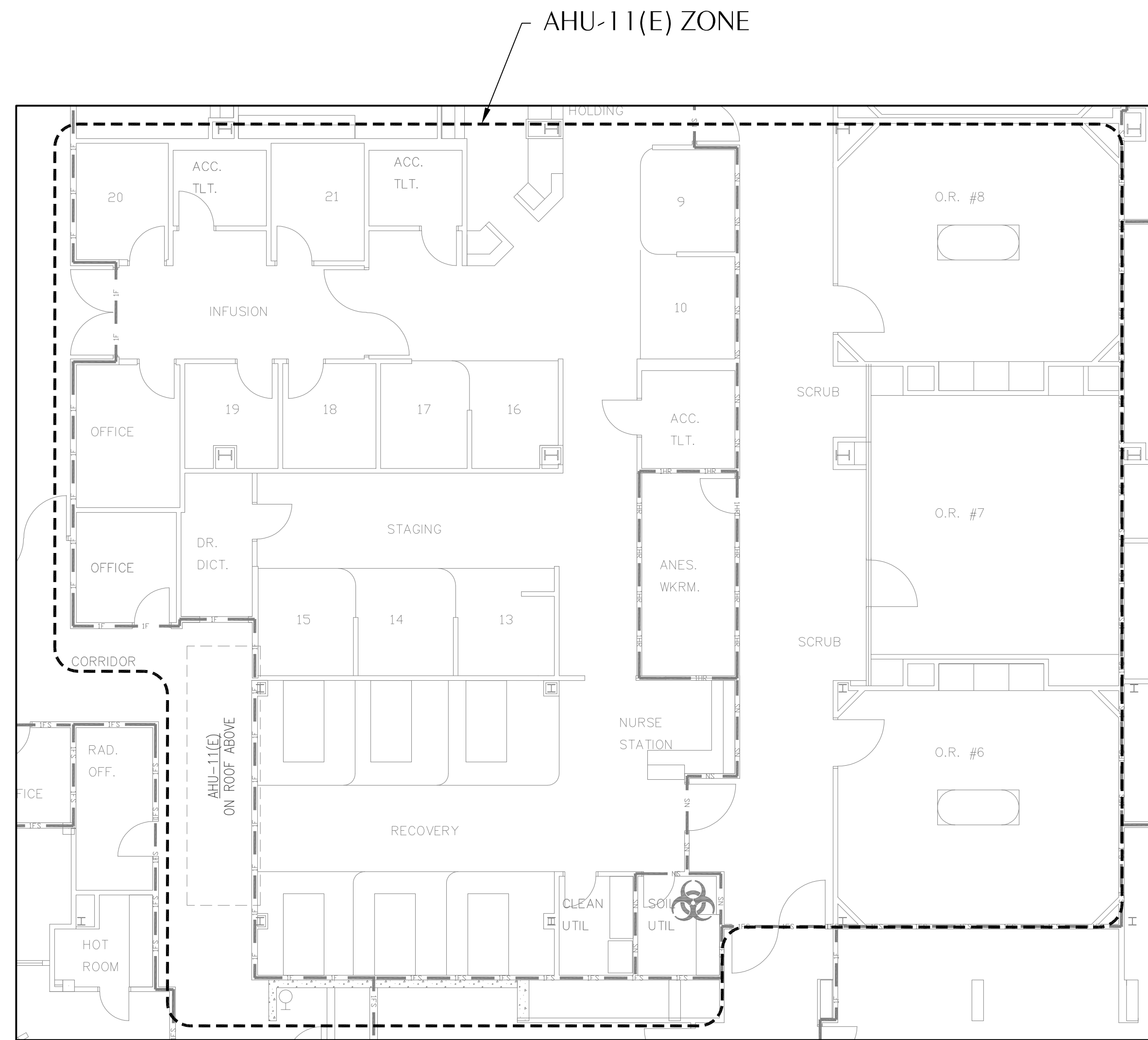
Project Number	M25050
Dated	01.12.2026

EXISTING  
ZONING  
**M3.04**



**1 AHU-7A(E) ZONE EXTENTS**  
M3.04 SCALE: 1/8" = 1'-0"

AHU-7A(E) ZONE



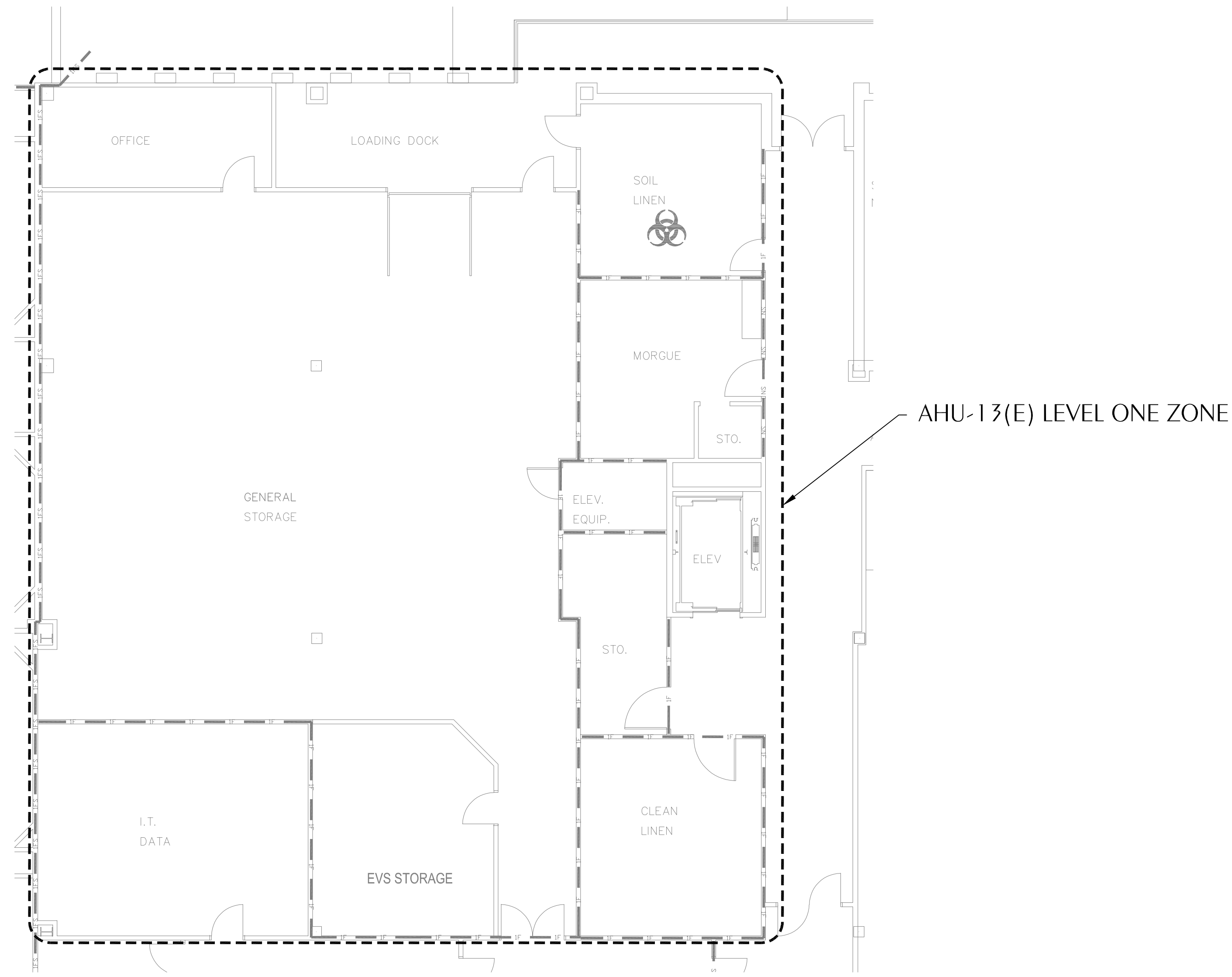
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M3.04 SCALE: 1/8" = 1'-0"

AHU-11(E) ZONE

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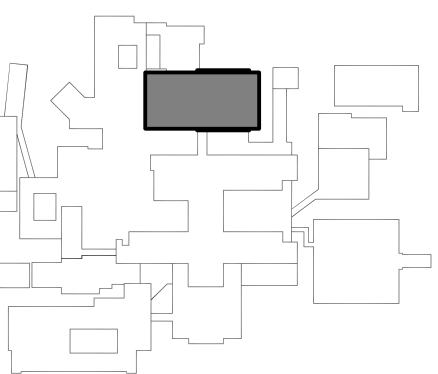
**AHU-1 3(E) LEVEL ONE ZONE EXTENTS**  
 SCALE: 1/8" = 1'-0"





HCA Florida Gulf Coast Hospital

**CHILLED WATER REPLACEMENT**

449 W. 23RD STREET  
PANAMA CITY, FL 32405



 NORTH

 KEYPLAN

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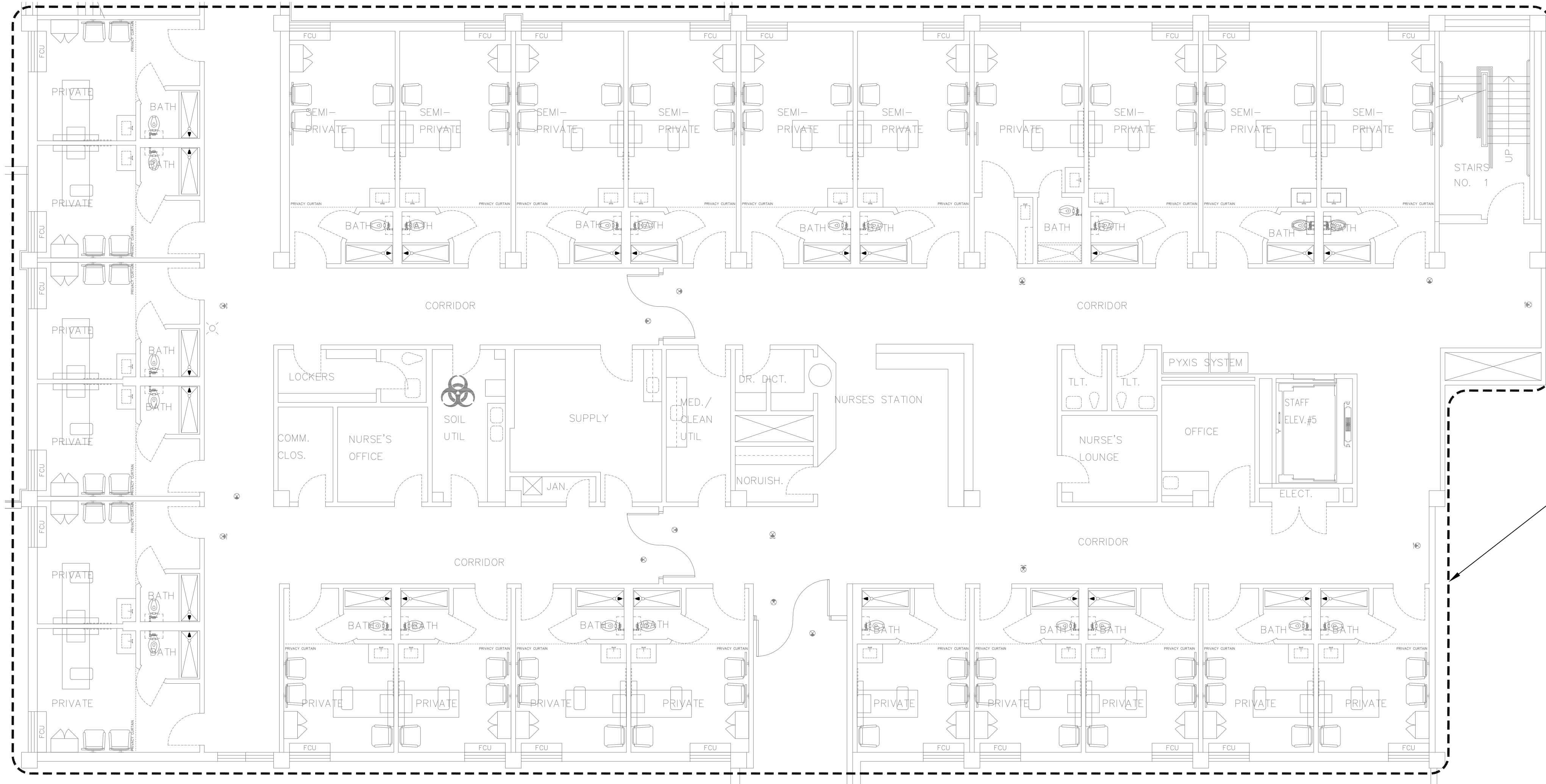
Project Number **M25050**  
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 Florida License Number: 86457  
 850.526.3447 / 334.219.0212  
 Project Number: 22254287  
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EXISTING ZONING  
**M3.05**

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AHU-13(E) LEVEL TWO ZONE

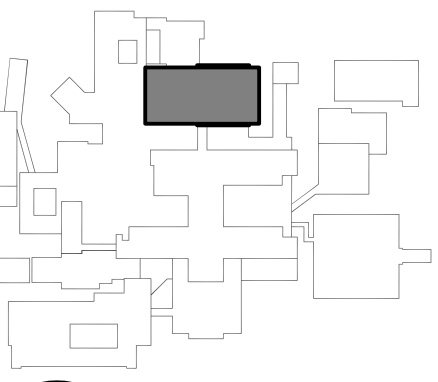
**AHU-13(E) LEVEL TWO ZONE EXTENTS**  
 SCALE: 1/8" = 1'-0"

Digital Signature  
**CONSTRUCTION DOCUMENTS**



HCA Florida Gulf Coast Hospital  
**CHILLED WATER REPLACEMENT**

449 W. 23RD STREET  
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Project Number **M25050**  
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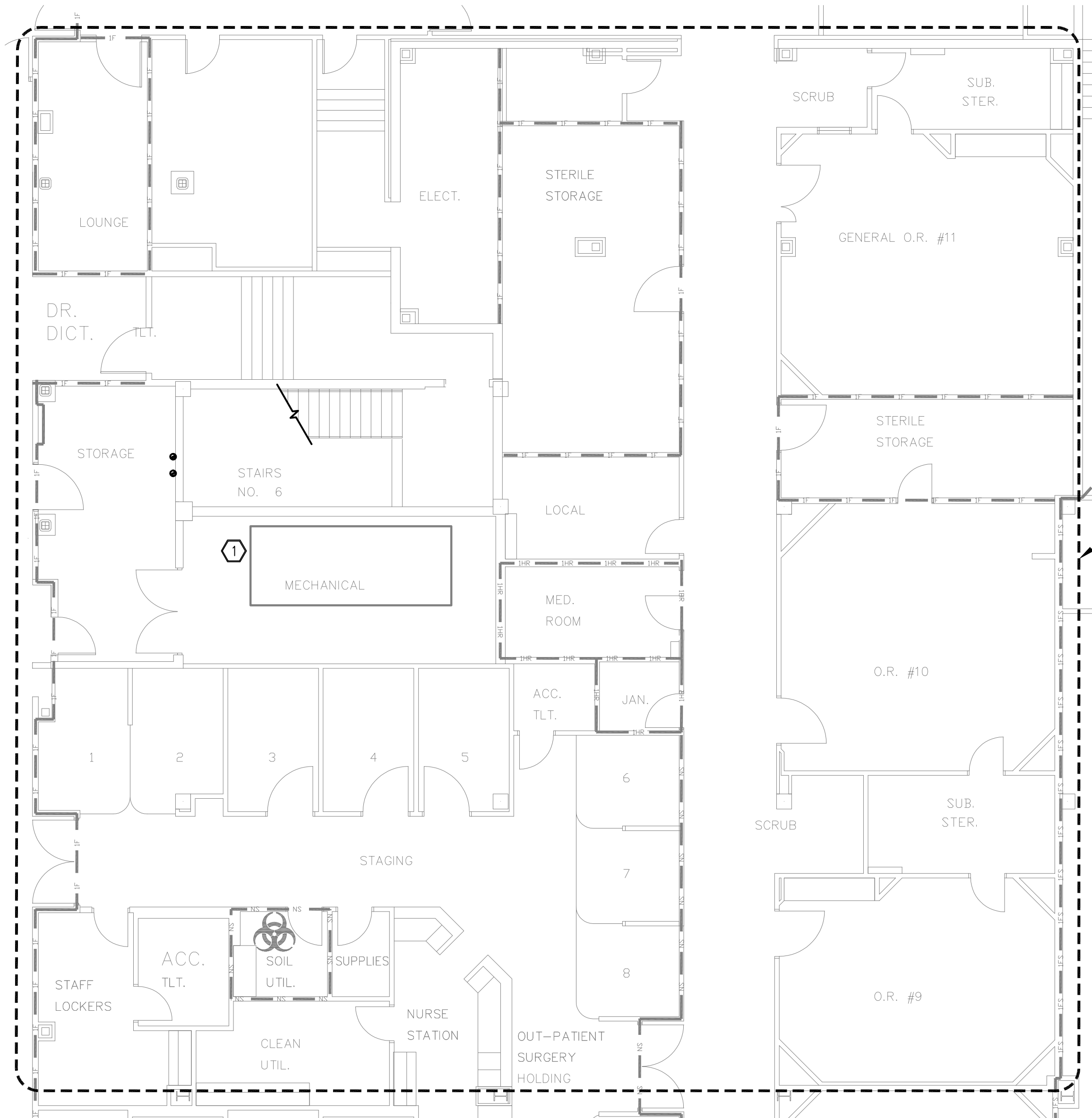
**WATFORD ENGINEERING**  
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 2449 Moores Mill Rd, Suite 100 Auburn, AL 36830

Florida CA Number: 27925  
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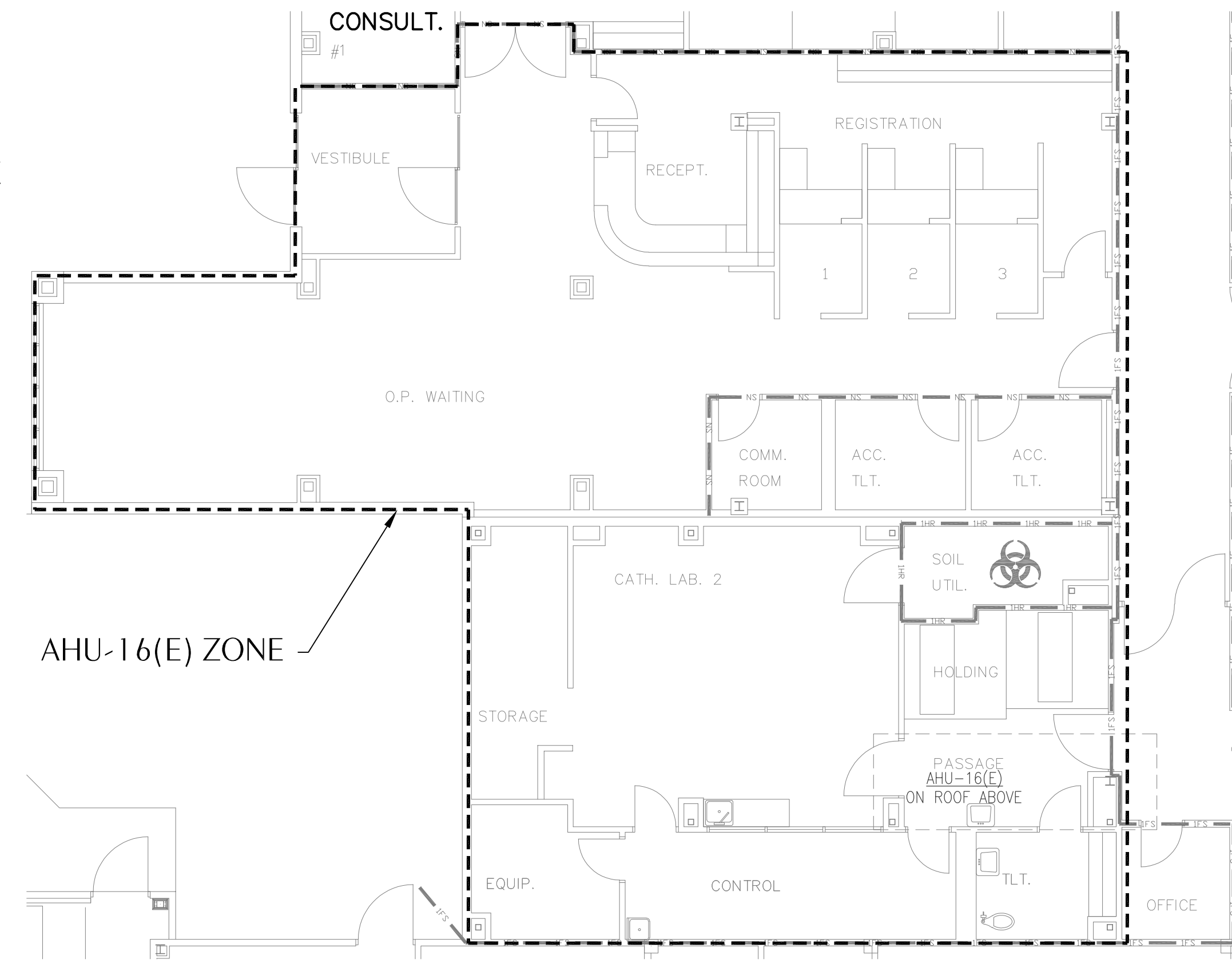
**EXISTING ZONING**  
**M3.06**

**SHEET NOTES**

① AHU-14(E) LOCATED WITHIN MECHANICAL ROOM.



**1 AHU-14(E) ZONE EXTENTS**  
M3.07 SCALE: 1/8" = 1'-0"



**2 AHU-16(E) ZONE EXTENTS**  
M3.07 SCALE: 1/8" = 1'-0"

Digital Signature  
**CONSTRUCTION DOCUMENTS**

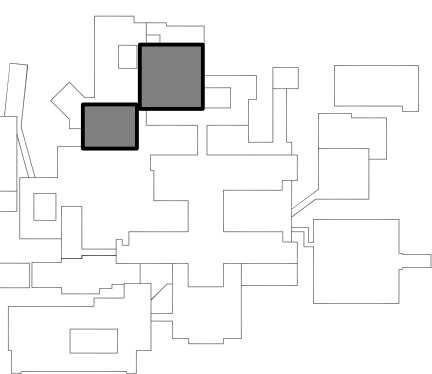


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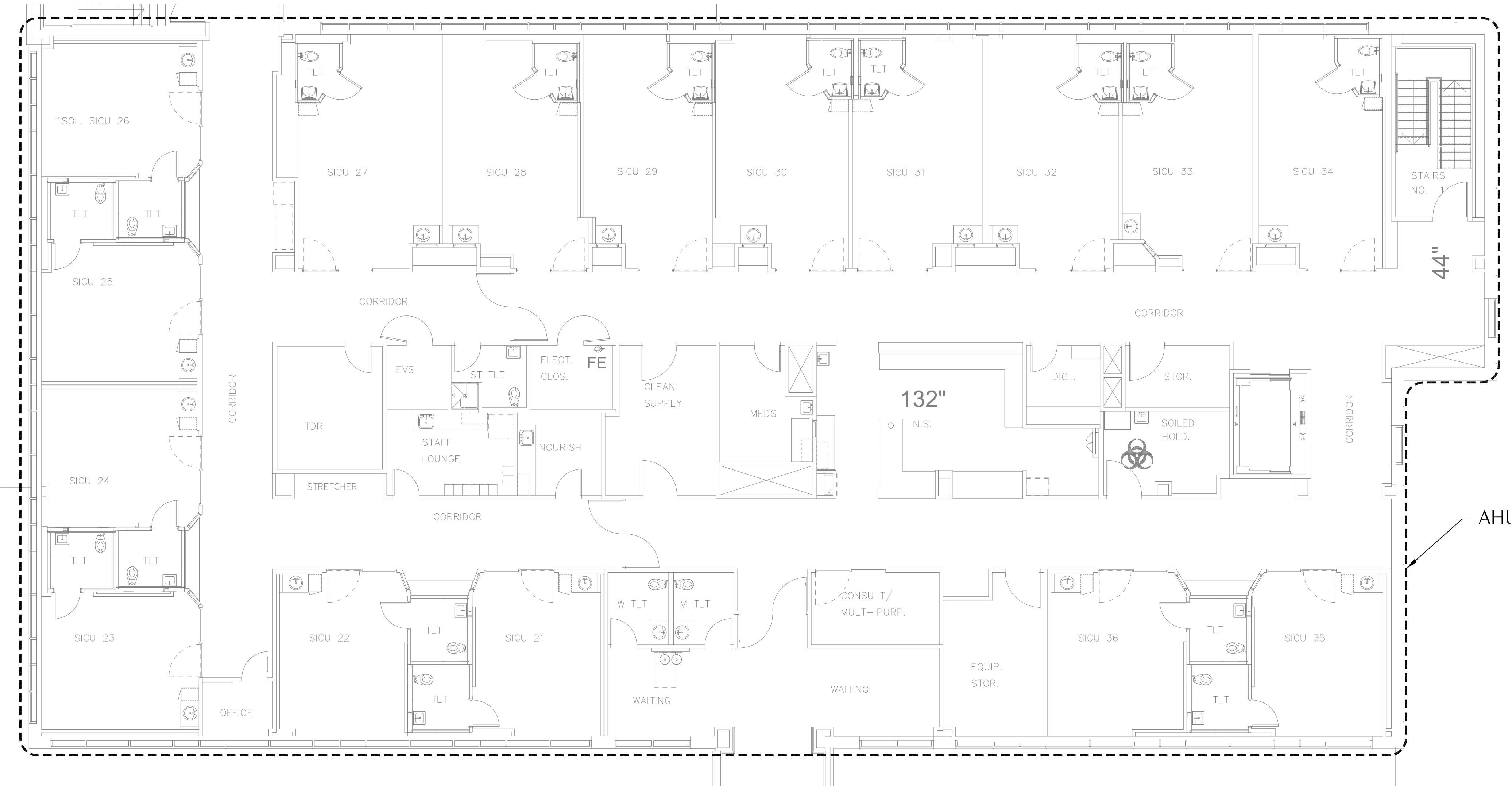
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**M3.07**

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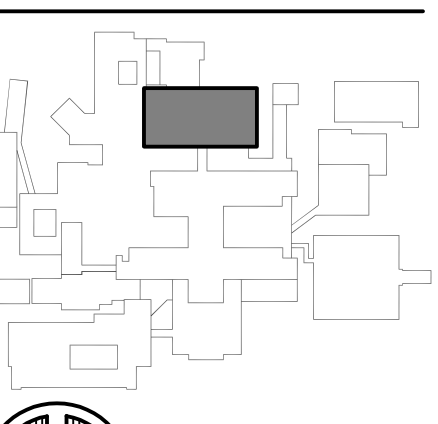
**AHU-29(E) ZONE EXTENTS**  
 N 1 M3.08 SCALE: 1/8" = 1'-0"

Digital Signature  
**CONSTRUCTION DOCUMENTS**



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**CHILLED WATER REPLACEMENT**

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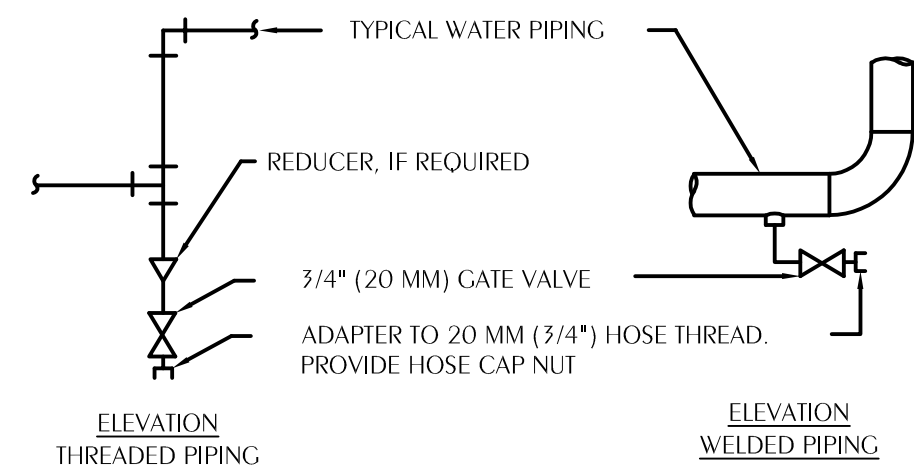
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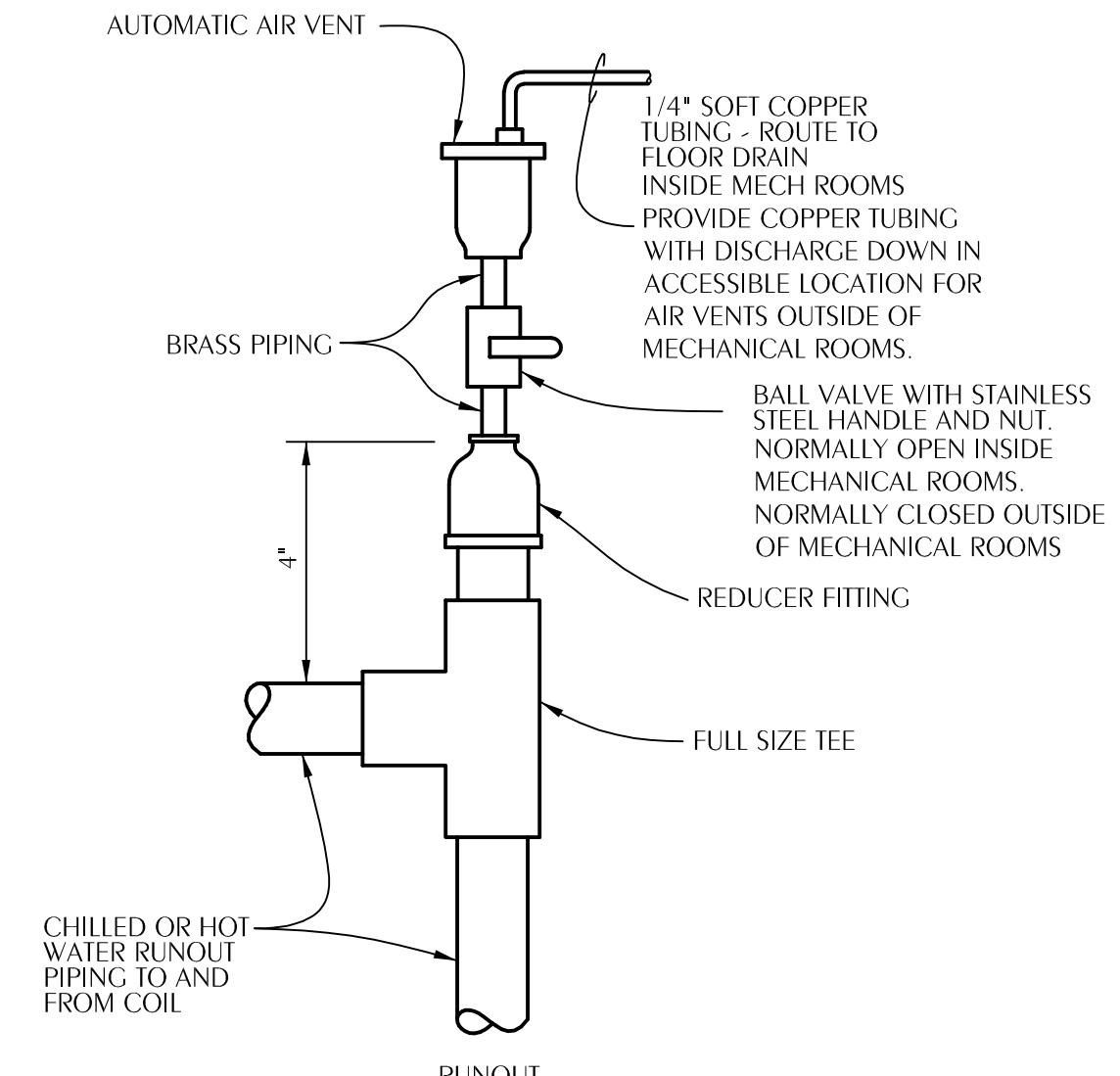
Florida CA Number: 27825  
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**EXISTING ZONING**  
**M3.08**

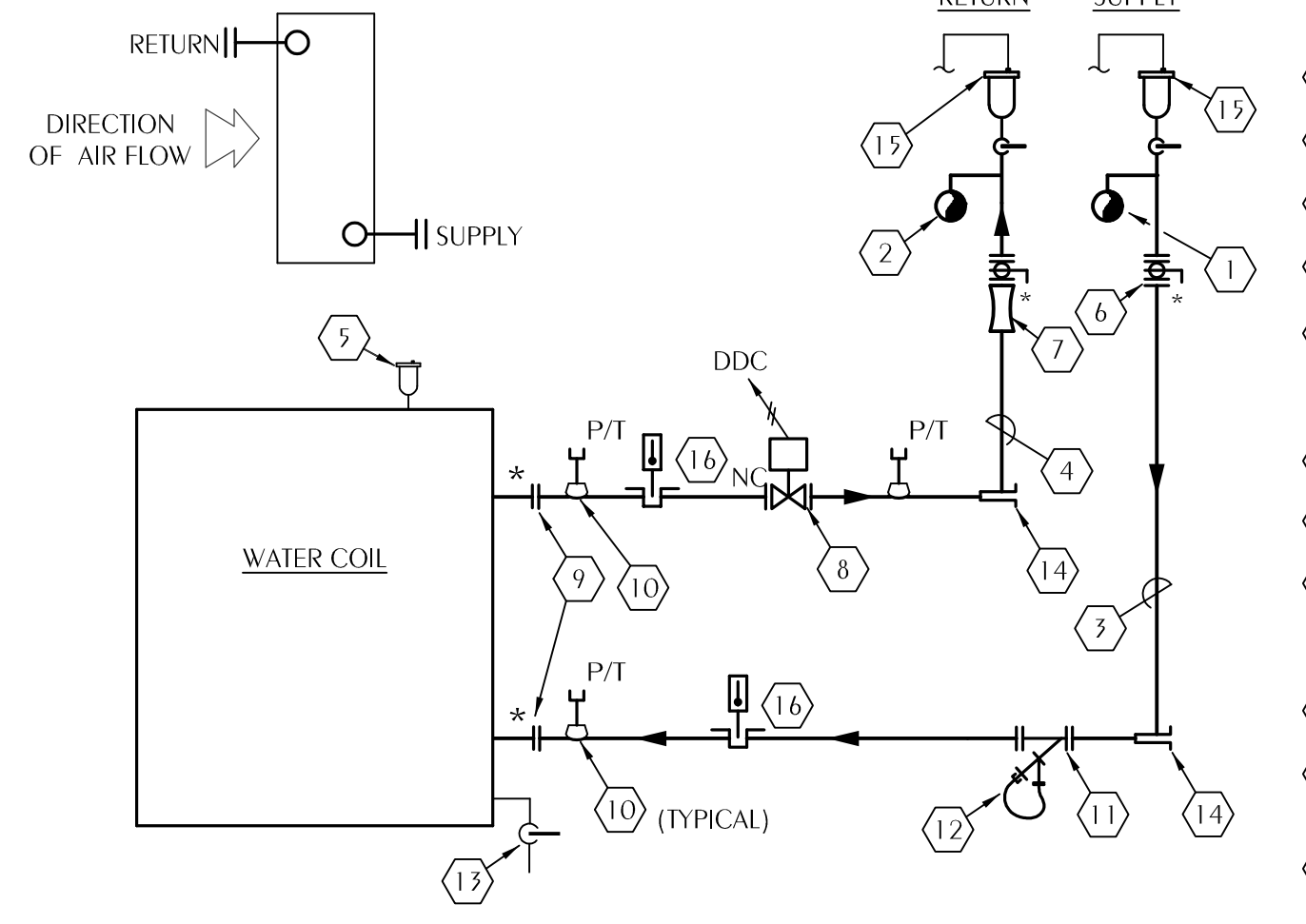


**NOTES:**  
1. DRAIN ALL LOW POINTS AS INDICATED ABOVE.  
2. WHERE SCALE POCKETS ARE SHOWN ON PIPE RISER DIAGRAMS AND/OR PLANS LOCATE DRAIN AT BOTTOM OF SCALE POCKET.  
**DESIGNER'S NOTE:**  
SHOW SCALE POCKETS ON MAJOR CIRCULATING WATER PIPING RISER DIAGRAMS AND/OR PLANS.

**1 TYPICAL HYDRONIC PIPING DRAIN VALVE CONNECTION**  
M4.01 SCALE: NONE

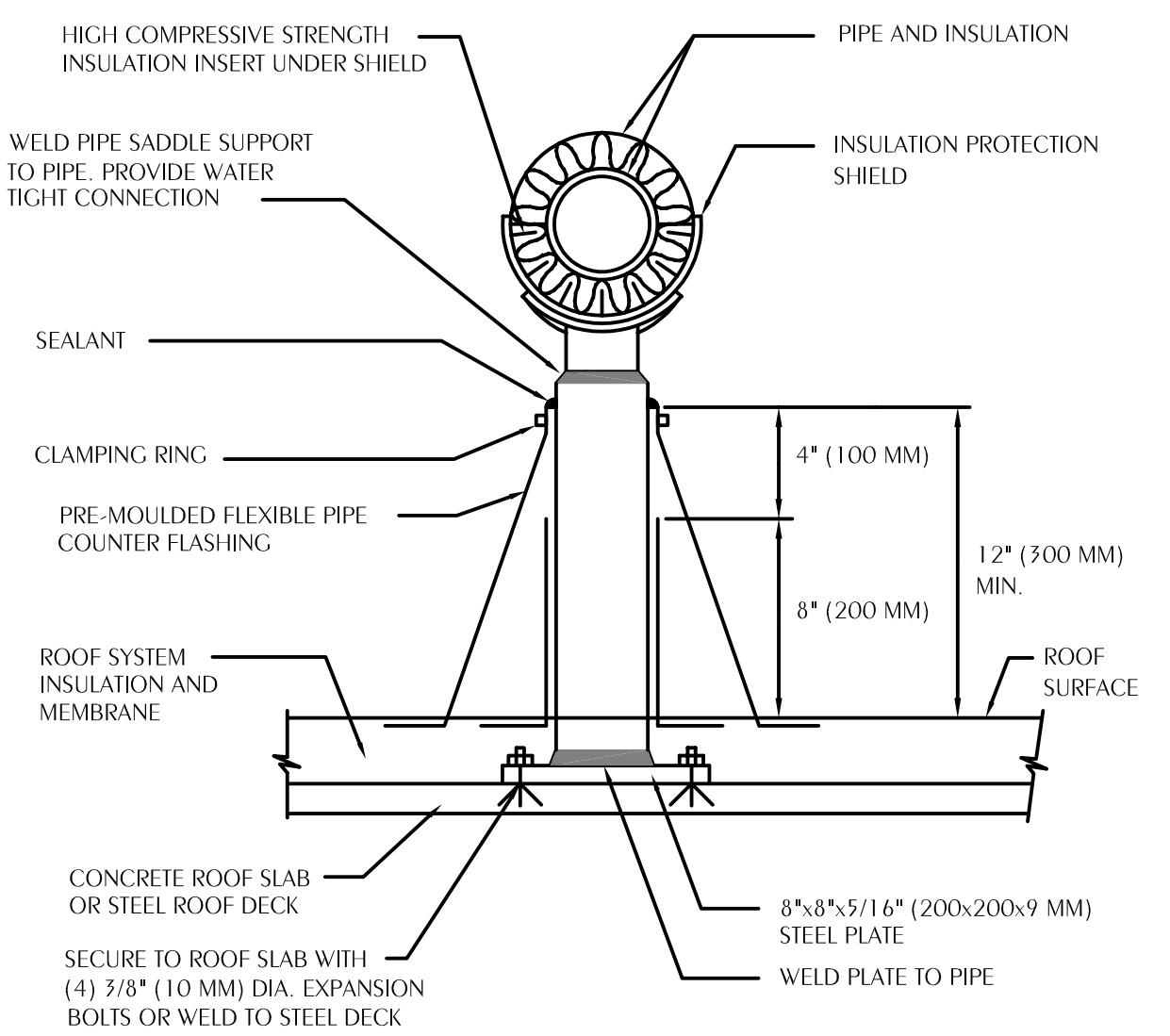


**4 TYPICAL AUTOMATIC AIR VENT DETAILS**  
M4.01 SCALE: NONE

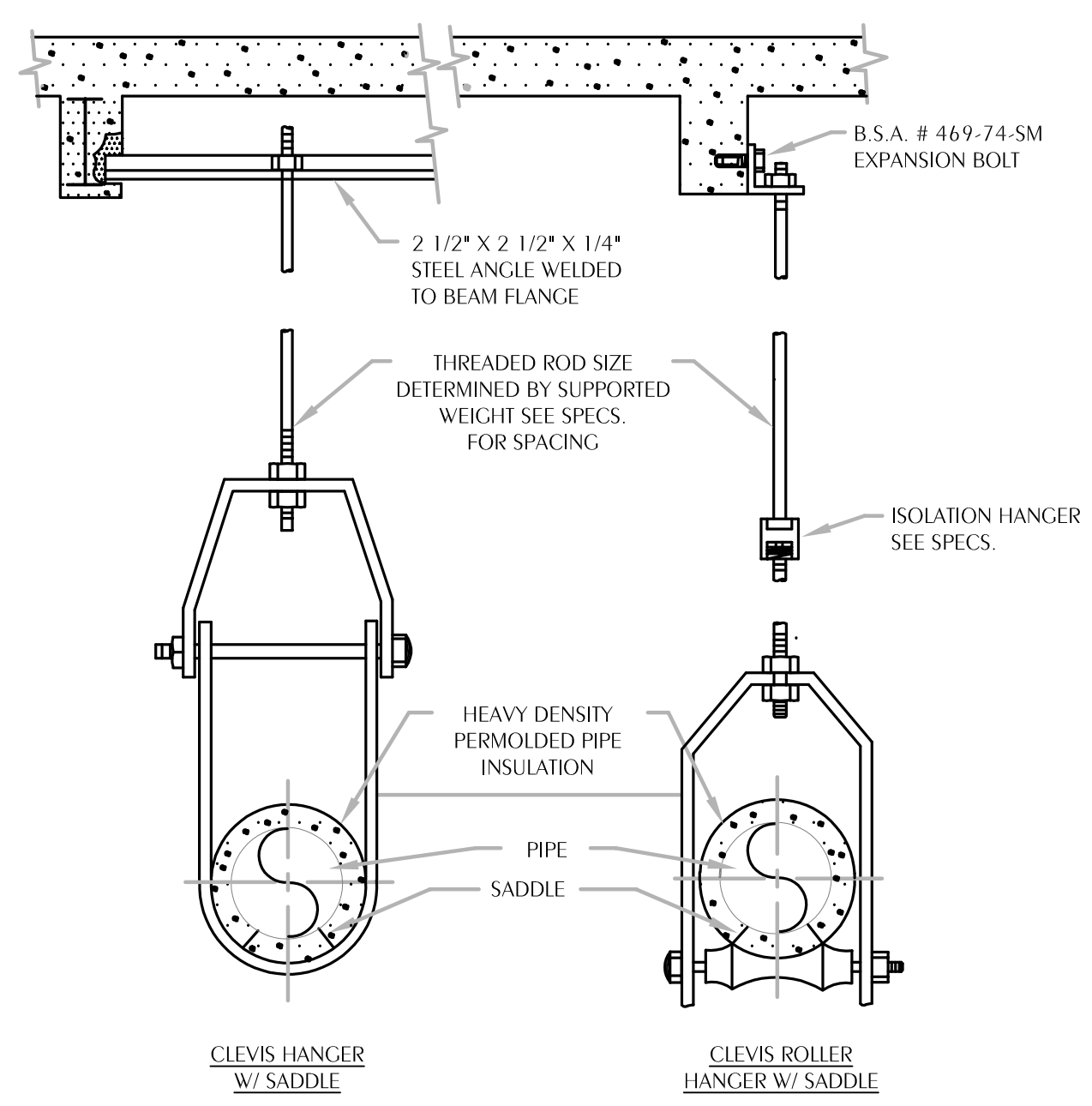


**GENERAL NOTES:**  
1) PROVIDE PRESSURE INDEPENDENT ELECTRIC CONTROL VALVES WITH CONSTANT DIFFERENTIAL PRESSURE FOR 100% VALVE AUTHORITY, OPERATING RANGE 4-60 PSI.  
2) INSTALL P/T PORTS IN FORGED STEEL THREDOLETS OR REDUCING TEE. HALF COUPLINGS ARE NOT ALLOWABLE.  
3) ARRANGE PIPING SUCH THAT THE ENTIRE COIL CONNECTION ASSEMBLY CAN BE REMOVED BY DISCONNECTING AT POINTS MARKED WITH AN ASTERISK (\*) FOR COIL SERVICING. PIPING SHALL NOT INTERFERE WITH ACCESS TO ANY COMPONENT OF THE AIR HANDLING UNIT THAT REQUIRES SERVICE.

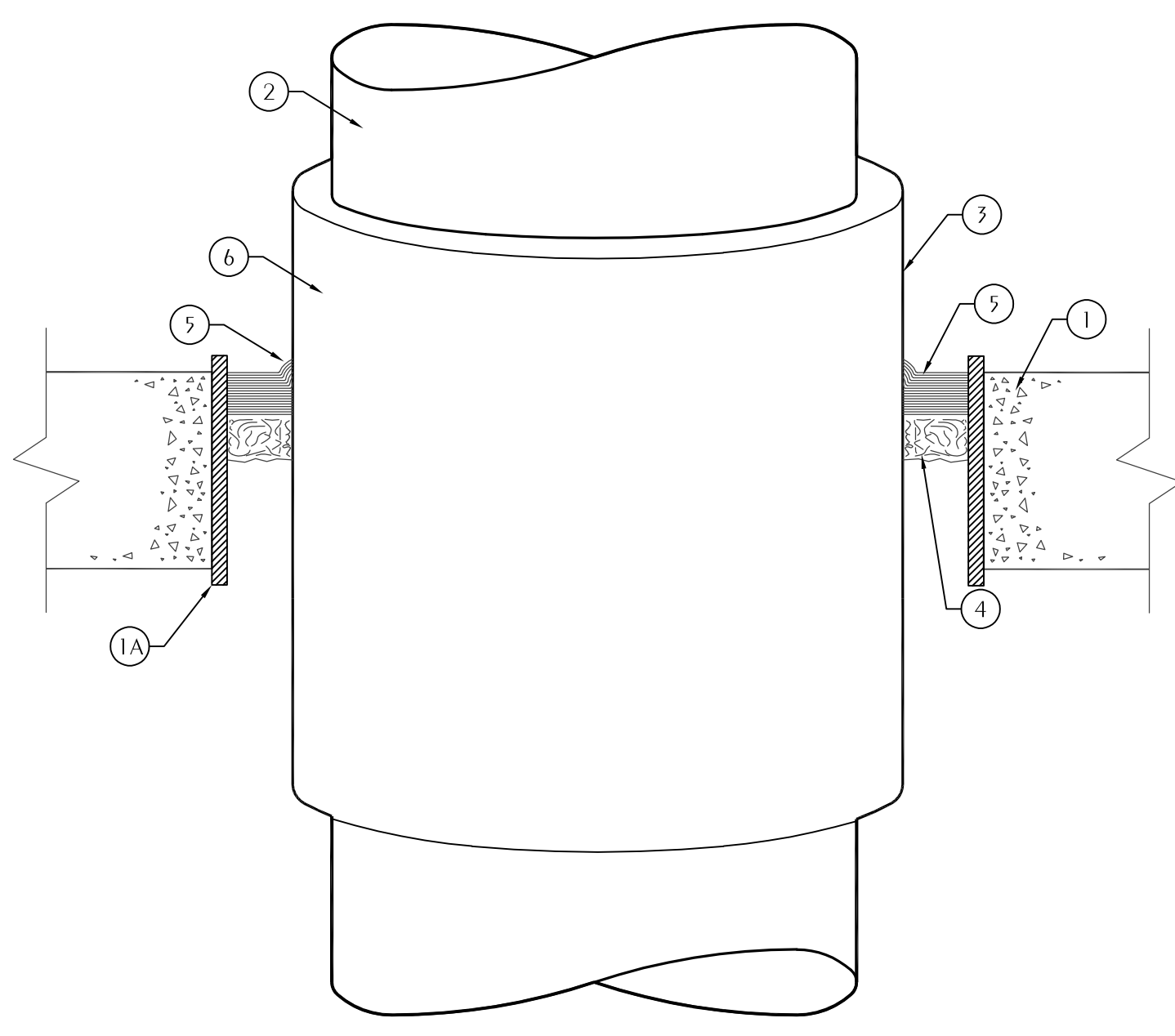
**3 TYPICAL COIL CONNECTION SCHEMATIC**  
M4.01 SCALE: NONE PIPE SIZE LARGER THAN 2"



**2 TYPICAL ROOF MOUNTED PIPING SUPPORT**  
M4.01 SCALE: NONE



**3 TYPICAL PIPE HANGER DETAIL**  
M4.01 SCALE: NONE



CONSULT CURRENT UNDERWRITERS LABORATORIES "FIRE RESISTANCE DIRECTORY" FOR DETAILS

**6 TYPICAL FIRE RATED WALL/FLOOR PENETRATION**  
M4.01 SCALE: NONE CELLULAR GLASS INSULATED METALLIC PIPE

1. FLOOR OR WALL ASSEMBLY—MIN 2-1/2 IN. THICK LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS\*. F RATINGS AND T RATINGS ARE DEPENDENT ON THE MIN THICKNESS OF FLOOR OR WALL, AS WELL AS THE MAX SIZE OF THE PIPE AND THE NOM THICKNESS OF THE CELLULAR GLASS INSULATION, AS NOTED IN ITEM 3. MAX DIAM OF THROUGH OPENING IS 28-1/2 IN.  
SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.  
1A. STEEL SLEEVE—MAX 15 IN. ID (OR SMALLER), MIN 0.25 IN. WALL THICKNESS (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAX OF 2 IN. ABOVE TOP OF FLOOR OR BEYOND EITHER SURFACE OF WALL. T RATING IS 0 HR WHEN SLEEVE IS USED.  
2. THROUGH PENETRANTS—ONE METALLIC PIPE OR TUBING TO BE POSITIONED WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:  
A. STEEL PIPE—NOM 20 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.  
B. COPPER TUBING—NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.  
C. COPPER PIPE—NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.  
3. PIPE COVERING MATERIALS\*—CELLULAR GLASS INSULATION—NOM 1-1/2 TO 3 IN. THICK CELLULAR GLASS UNITS SIZED TO THE OUTSIDE DIAM OF THE STEEL PIPE AND SUPPLIED IN NOM 24 IN. LONG HALF SECTIONS OR NOM 18 IN. LONG SEGMENTS. PIPE INSULATION INSTALLED ON PIPE IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. F RATINGS AND T RATINGS ARE DEPENDENT ON THE ITEMS NOTED IN THE FOLLOWING TABLE:  
MIN FLOOR OR WALL THRS IN. MAX PIPE DIAM IN. NOM GLASS INSUL THKNS IN. F RATING HR T RATING HR  
2-1/2 6 1-1/2 AND 3 2 3/4  
4-1/2 6 1-1/2 3 1  
4-1/2 20 1-1/2 2 1-1/2  
4-1/2 20 3 2 1  
PITTSBURGH CORNING CORP.—FOAMGLAS  
4. PACKING MATERIAL—MIN 1 IN. THICKNESS OF TIGHTLY-PACKED MINERAL WOOL BATT INSULATION MATERIAL USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED MIN 1 IN. FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL TO ACCOMMODATE THE CAULK FILL MATERIAL (ITEM 5).  
5. FILL, VOID OR CAVITY MATERIALS\*—CAULK—INSTALLED TO FILL ANNULAR SPACE TO A MIN DEPTH OF 1 IN., FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL. A MIN 1/2 IN. DIAM BEAD OF CAULK SHALL BE APPLIED TO THE PIPE INSULATION/CONCRETE INTERFACE AT THE POINT CONTACT LOCATION ON THE TOP SURFACE OF THE FLOOR AND ON BOTH SIDES OF WALLS.  
MINNESOTA MINING & MFG. CO.—CP 25WB+  
6. METAL JACKET—MIN 1/2 IN. LONG JACKET FORMED OF MIN 0.010 IN. THICK STEEL OR ALUMINUM SHEET CUT TO WRAP TIGHTLY AROUND THE PIPE INSULATION WITH A MIN 2 IN. LAP AND SECURED USING BANDS AND SEALS OF SIMILAR MATERIAL. BANDS TO BE LOCATED WITHIN 2 IN. OF EACH END OF THE JACKET AND SPACED MAX 10 IN. OC. JACKET TO BE INSTALLED WITH EDGE ABUTTING SURFACE OF CAULK FILL MATERIAL (ITEM 5) ON TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL. METAL JACKET TO BE USED IN ADDITION TO ANY OTHER JACKETING MATERIAL WHICH MAY BE REQUIRED OR DESIRED ON THE PIPE INSULATION.  
\*BEARING THE UL CLASSIFICATION MARKING

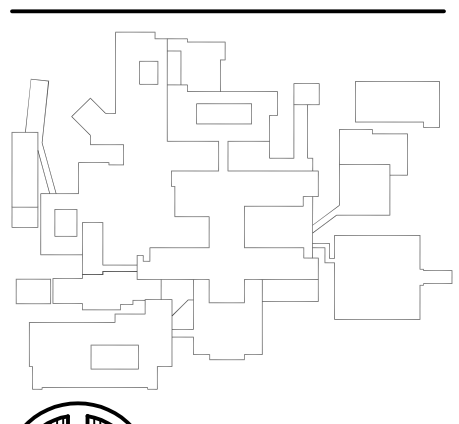
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HCA Florida Gulf Coast Hospital

**CHILLED WATER REPLACEMENT**

449 W. 23RD STREET  
PANAMA CITY, FL 32405



NORTH KEYPLAN

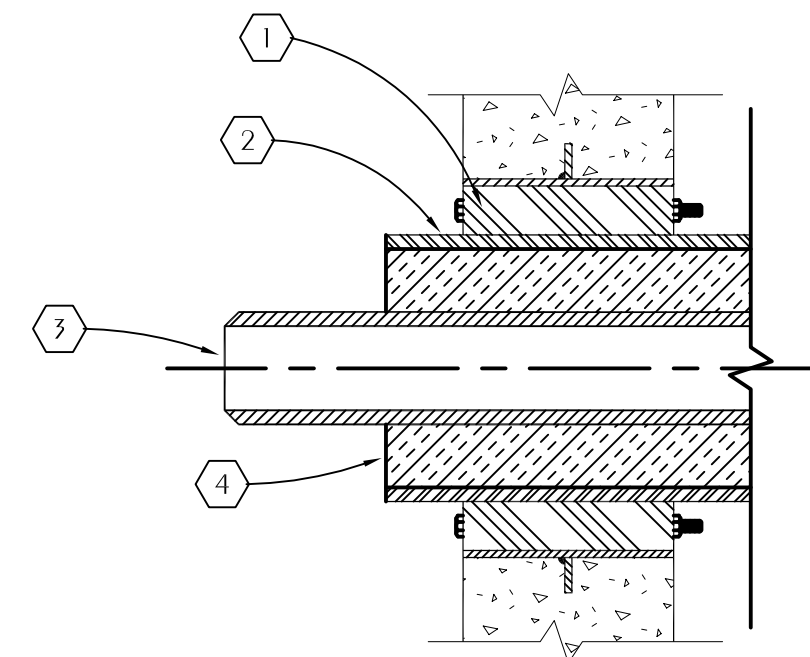
NO.	DESCRIPTION	DATE

Project Number **M25050**  
Dated **01.12.2026**

Florida CA Number: 27925  
Keith A. Johnson, P.E.  
Florida License Number: 86457  
850.526.3447 / 334.209.0212  
Project Number: 2252497  
Checked By: KAJ  
Drawn By: CHM

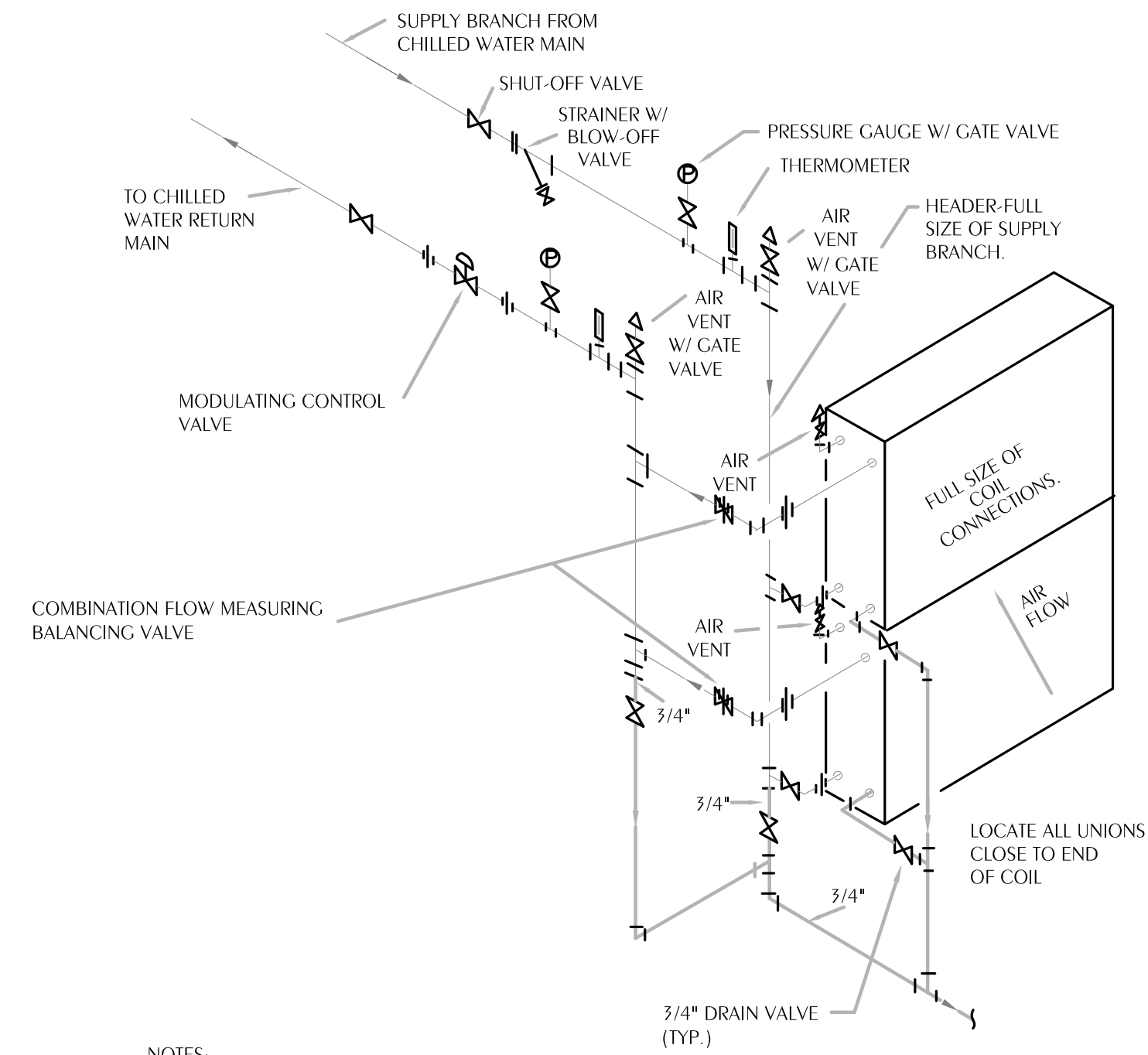
HVAC DETAILS  
**M4.01**

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- ① WALL SEAL APPURTENANCES PER SPECIFICATIONS
- ② PIPE SLEEVE PER SPECIFICATIONS
- ③ CHILLED OR HOT WATER PIPING
- ④ INSULATION

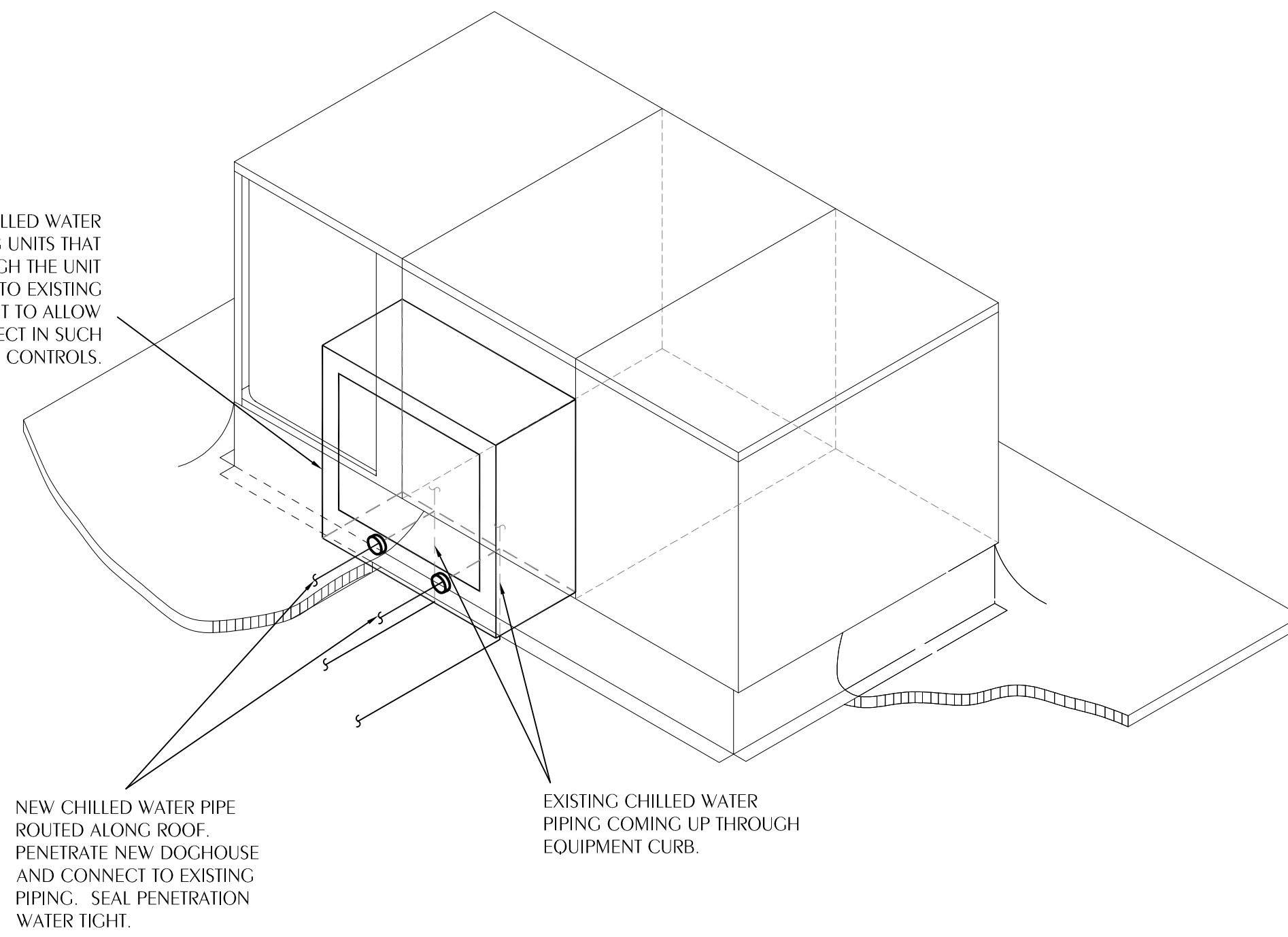
**1 TYPICAL WALL PIPE PENETRATION**  
M4.02 SCALE: NONE



- NOTES:  
1. HOOK UP COILS COUNTERFLOW  
2. LOCATE RISERS TO CLEAR TUBE PULL  
3. FOR SYSTEMS WITH COILS (2) WIDE, OPPOSITE END PIPING IS SIMILAR AS SHOWN.

**2 MULTIPLE COOLING COIL PIPING**  
M4.02 SCALE: NONE

PROVIDE ALUMINUM DOGHOUSE TO ATTACH TO CHILLED WATER COIL SECTION OF THE UNIT FOR ALL AIR HANDLING UNITS THAT HAVE CHILLED WATER CURRENTLY COMING UP THROUGH THE UNIT CURB. DOGHOUSE SHALL BE SEALED WATER TIGHT TO EXISTING UNIT AND SHALL HAVE ACCESS PANEL ON THE FRONT TO ALLOW ACCESS TO VALVES. NEW CHILLED WATER SHALL CONNECT IN SUCH A WAY TO REUSE ALL EXISTING CONTROLS.



**3 TYPICAL RTU CHILLED WATER PIPE CONNECTION DETAIL**  
M4.02 SCALE: NONE

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CONSTRUCTION DOCUMENTS

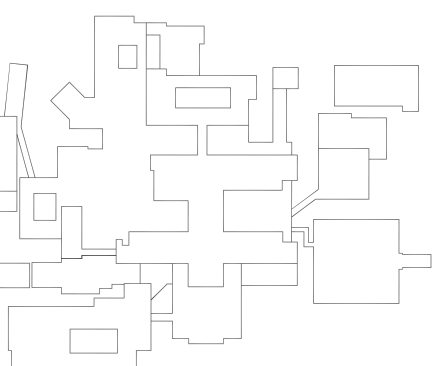


**HCA Florida**  
Gulf Coast Hospital

HCA Florida Gulf Coast Hospital

**CHILLED WATER REPLACEMENT**

449 W. 23RD STREET  
PANAMA CITY, FL 32405



REVISIONS	
NO.	DESCRIPTION

Project Number **M25050**  
Dated **01.12.2026**

**WATFORD ENGINEERING**  
4452 Clinton Street Marianna, Florida 32446  
2449 Moores Mill Rd, Suite 100 Auburn, AL 36830

Florida CA Number: 27925  
Keith A. Johnson, P.E.  
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850.526.3447 / 334.209.0212  
Project Number: 2252497  
Checked By: KAJ  
Drawn By: CHM

**HVAC DETAILS**  
**M4.02**

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**PHASING NOTES**

- PHASE 0:**  
COORDINATE SHUTDOWN TO OCCUR AT NIGHT WITH THE SCHEDULING OF THE AREAS OF THE HOSPITAL SERVED BY THE CHILLED WATER PIPING THAT WILL HAVE INTERRUPTED SERVICE. SHUTDOWN DATES TO BE COORDINATED WITH HOSPITAL MAINTANCE STAFF AND HOSPITAL ADMINISTRATION. INFORM THE DESIGN TEAM OF THE CHOSEN SHUTDOWN DATE. THIS MUST BE DONE A MINIMUM OF 2 WEEKS PRIOR TO THE FIRST SCHEDULED AHU CHANGEOVER TO NEW PIPING. SHUTDOWN TO BE COMPLETED IN A TIMELY MANNER. SHUTDOWN TO CONSIST ONLY OF PIPING HOT TAP(OR FREEZE TAP) AND INSTALLATION OF FLANGED ISOLATION VALVE. NORMAL OPERATION TO CONTINUE UPON VERIFICATION VALVES ARE HOLDING PRESSURE AND NO LEAKS ARE PRESENT. THIS WILL OCCUR AT THE CHWS/R TAP LOCATIONS SHOWN ON M2.05.
- PHASE 1A:**  
ALL ROOFTOP PIPING FABRICATION BEGINS. ALL PIPING TO BE FLUSHED AND PRESSURE TESTED PRIOR TO CONNECTION TO AN ACTIVE CHILLED WATER SYSTEM. PIPING ON WEST LOW ROOF SERVING AHU-3, AND INTERIOR LOBBY UNITS TO BE PRIORITIZED SO SCHEDULING OF UNIT TURNOVER CAN BEGIN. INSTALL INDOOR PIPING FOR LOBBY UNITS UPON SCHEDULING OF ACCESS TO 1ST FLOOR STAFF LOUNGE AND ADJACENT CORRIDOR SHOWN ON M2.02. FLUSH AND PRESSURE TEST ALL PIPING PRIOR TO CONNECTION TO ACTIVE CHILLED WATER. DEMOLITION OF CORRIDOR PIPING SHOWN ON M1.02 TO OCCUR AFTER LOBBY UNIT CHANGEOVER IS COMPLETE.
- PHASE 1B:**  
AHU 7, 7A PIPING CAN BE COMPLETED FLUSHED AND TESTED WITH RUNOUTS TO LOW ROOF AND SOUTH ROOF PENTHOUSE VALVED OFF SO SCHEDULING OF AHU-7 AND 7A SHUTDOWNS CAN OCCUR. FLUSH AND PRESSURE TEST ALL PIPING PRIOR TO CONNECTION TO ACTIVE CHILLED WATER. AHU-7 AND 7A CAN BE SCHEDULED FOR FINAL CONNECTIONS WHILE SOUTH AND LOW ROOF MAINS ARE STILL UNDER CONSTRUCTION.
- PHASE 2:**  
LOW ROOF PIPING SERVING AHUS NORTH OF AHU-16 TO BE COMPLETED FLUSHED AND PRESSURE TESTED TOGETHER. VALVES IN PIPING RUNOUT SOUTH OF AHU-16 SERVING AHU-14 TO BE INSTALLED TO ALLOW FINAL CONNECTIONS OF OTHER LOW ROOF AHUS TO BE SCHEDULED/BEGIN
- PHASE 3:**  
SHUTDOWN OF AHU-13, 29, AND ALL OF THE 2S FCUS TO OCCUR TOGETHER IN ORDER TO REFEED THE CHWS/R RISER FROM THE PENTHOUSE WHILE PIPING RUNOUT TO AHU-14 IS COMPLETED.
- PHASE 4:**  
FINAL CONNECTIONS OF ALL AHU'S TO ACTIVE CHWS/R. DEMOLITION OF PIPING WITHIN BUILDING AND COMPLETION OF REMAINING SCOPE.

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CONSTRUCTION DOCUMENTS

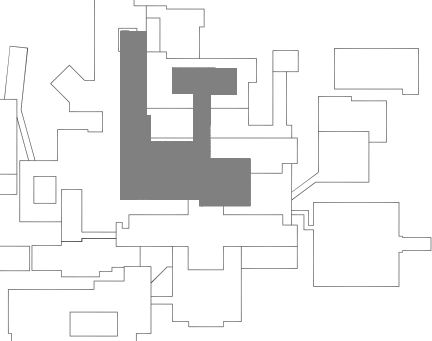


**HCA Florida**  
Gulf Coast Hospital

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**CHILLED WATER REPLACEMENT**

449 W. 23RD STREET  
PANAMA CITY, FL 32405



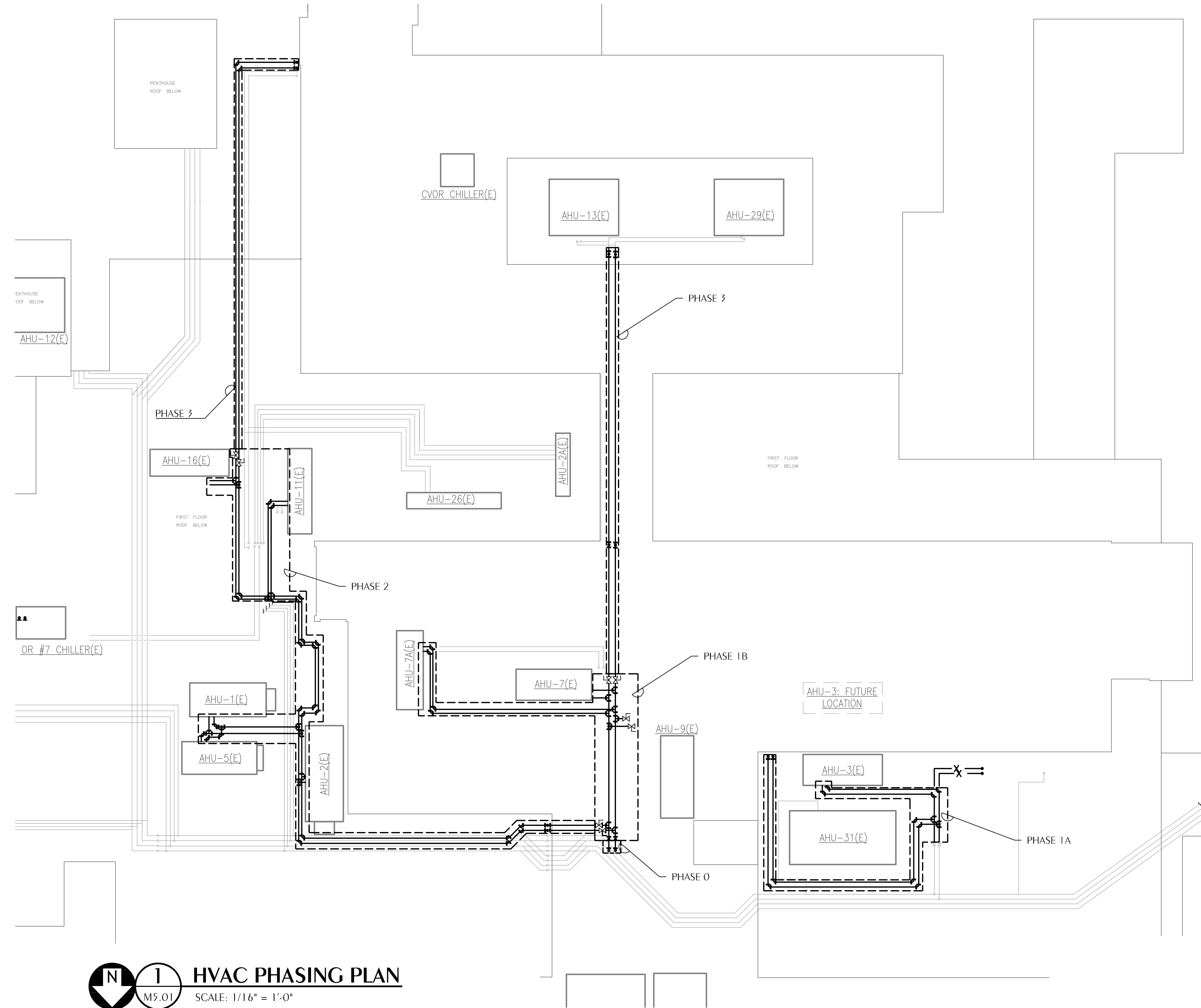
NO.	DESCRIPTION	DATE
1	ACHA REVISION	05.19.2026

Project Number **M25050**  
Dated **01.12.2026**

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Florida CA Number: 27925  
Keith A. Johnson, P.E.  
Florida License Number: 86457  
850.526.3447 / 334.216.0212  
Project Number: 2254287  
Checked By: KAJ  
Drawn By: CHM

**HVAC PHASING PLAN**  
**M5.01**



**N** **1** **HVAC PHASING PLAN**  
M5.01 SCALE: 1/16" = 1'-0"

PLOT DATE: 01/12/2026 11:58 AM  
 PROJECT: HCA Gulf Coast Chiller Replacement M25050  
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