

GENERAL NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS. THESE MECHANICAL DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT TO BE SCALED. THE CONTRACTOR SHALL VISIT THE JOB SITE BEFORE WORK BEGINS TO VERIFY ALL DIMENSIONS. NOTIFY THE COR OF ANY CONFLICTS.
2. COORDINATE DUCT ROUTING AND EQUIPMENT LOCATIONS WITH PLUMBING AND ELECTRICAL INSTALLATIONS AND WITH BUILDING STRUCTURAL MEMBERS. OFFSET DUCTS AND SHIFT EQUIPMENT AS REQUIRED TO AVOID CONFLICTS.
3. COORDINATE LOCATIONS OF CEILING REGISTERS AND DIFFUSERS WITH LIGHTING LAYOUT AND REFLECTED CEILING PLAN.
4. DUCT SIZES INDICATED ARE CLEAR INSIDE DIMENSIONS REQUIRED. WHERE DUCT LINER OCCURS, INCREASE SHEET METAL DUCT SIZES TO ACCOMMODATE LINER.
5. REFER TO ELECTRICAL DRAWINGS FOR VOLTAGE REQUIREMENTS OF ALL EQUIPMENT.
6. SUPPORT ALL DUCTS, PIPING, AND EQUIPMENT FROM PRIMARY BUILDING STRUCTURAL MEMBERS. PROVIDE ADDITIONAL STRUCTURAL MEMBERS WHERE NECESSARY TO ACCOMPLISH THIS REQUIREMENT.
7. EQUIPMENT INDICATED TO BE REMOVED SHALL BE REMOVED FROM THE PROJECT SITE IN ITS ENTIRETY INCLUDING ALL HANGERS, ELECTRICAL CONDUIT, WIRING, ELECTRICAL JUNCTION BOXES, PIPING, CONTROLS AND ACCESSORIES RENDERED USELESS OR ABANDONED BY THE REMOVAL OF THE INDICATED EQUIPMENT.
8. THE TEST AND BALANCE CONTRACTOR SHALL BE A SUB-CONTRACTOR TO THE PRIME CONTRACTOR AND NOT A SUB-CONTRACTOR TO THE MECHANICAL CONTRACTOR.
9. COORDINATE ALL UTILITY OUTAGES WITH THE COR. THE CONTRACTOR SHALL PROVIDE A WRITTEN SCHEDULE AND RECEIVE APPROVAL FROM COR BEFORE PROCEEDING WITH ANY OUTAGES. ALL DOWNTIME SHALL BE LIMITED TO A MAXIMUM OF 12 HOURS AND SHALL BE ACCOMPLISHED OVERNIGHT OR ON WEEKENDS IF REQUIRED BY THE COR.
10. CONTRACTOR SHALL REFER TO HAZARDOUS MATERIAL ABATEMENT PLAN PRIOR TO PERFORMING ARCHITECTURAL OR MECHANICAL RENOVATION OR DEMOLITION WORK TO DETERMINE IF ASBESTOS, LEAD, PCBS, BATTERIES OR MERCURY IN FLUORESCENT BULBS WILL BE DISTURBED. ABATEMENT CONTRACTOR PRIOR TO GENERAL ARCHITECTURAL AND MECHANICAL RENOVATION AND DEMOLITION SHALL REMOVE ALL HAZARDOUS MATERIALS.
11. REFER TO ARCHITECTURAL PLANS FOR PHASING REQUIREMENTS.
12. CLEANSUITE CEILING SYSTEM IS TO BE USED FOR AIR DISTRIBUTION FOR THE OPERATION ROOMS. REFER TO ARCHITECTURE FOR SPECIFICATION AND DETAILS ON THE CEILING SYSTEM.
13. PROVIDE NEW HEPA FILTER MEDIA IN ALL HEPA FILTERS RELOCATED AND RE-USED IN PLACE BY THIS PROJECT.
14. PRE-TAB EXISTING AIR HANDLING UNIT AND TERMINAL UNITS SERVING AREAS OF THE FLOOR NOT BEING RENOVATED IN THIS PROJECT PRIOR TO BEGINNING ANY WORK. MEASURE BOTH WATER AND AIR FLOWS FOR EQUIPMENT.
15. BOTTOM RETURN AIR GRILLES LOCATED IN THE OPERATING ROOMS ARE TO BE MOUNTED 7" AFF.
16. FLEXIBLE DUCT RUNS SHOULD BE NOT MORE THAN 5 FT IN LENGTH AND TURNS ARE TO NOT BE MORE THAN 90 DEGREE EACH.

LEGEND

DEMOLITION PLANS		NEW WORK PLANS CONTINUED	
	EXISTING DUCT, PIPING OR EQUIPMENT TO BE REMOVED	N.C.	NORMALLY CLOSED
	EXISTING DUCT, PIPING OR EQUIPMENT TO BE RELOCATED	N.O.	NORMALLY OPEN
	EXISTING DUCT, PIPING OR EQUIP. TO REMAIN	O.A.	OUTDOOR AIR
NEW WORK PLANS		%	PERCENT
	NEW DUCT, PIPING OR EQUIPMENT	LB/HR	POUNDS PER HOUR
	EXISTING DUCT, PIPING OR EQUIPMENT TO BE RELOCATED	P.S.I.G.	POUNDS PER SQUARE INCH - GAUGE
	EXISTING DUCT, PIPING OR EQUIPMENT TO REMAIN	PRESS.	PRESSURE
	POINT OF CONNECTION/SCOPE OF WORK	P.D.	PRESSURE DROP
	DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN	R.A.	RETURN AIR
	DUCT SECTION, SUPPLY	S.S.	STAINLESS STEEL
	DUCT SECTION, RETURN	R.P.M.	REVOLUTIONS PER MINUTE
	DUCT SECTION, EXHAUST	RHC	REHEAT COIL
	FLEXIBLE DUCT CONNECTION	SF.	SQUARE FEET
	SQUARE ELBOW WITH TURNING VANES	S.A.	SUPPLY AIR
	CHANGE OF ELEVATION, ARROW INDICATES DIRECTION OF DROP	TU	TERMINAL UNIT
	TRANSITION	TEMP.	TEMPERATURE
	MANUAL VOLUME DAMPER	VAV	VARIABLE AIR VOLUME
	AUTOMATIC (MOTORIZED) VOLUME DAMPER	WTD	WATER TEMPERATURE DROP
	ACCESS DOORS, VERTICAL OR HORIZONTAL	W.	WATT
	DUCT MOUNTED SMOKE DETECTOR	WT.	WEIGHT
	SMOKE DETECTOR	W.P.D.	WATER PRESSURE DROP
	FIRE DAMPER AND SLEEVE	WBT	WET BULB TEMPERATURE
	RIGID ROUND DUCTWORK		AIR FLOW
	FLEXIBLE DUCT		WALL MOUNTED T'STAT AND HUMIDISTAT W/ASSOCIATED EQUIPMENT IDENTIFIED
	DUCT SIZE: FIRST DIMENSION IS HORIZONTAL		ATMOSPHERIC VENT
	SINGLE LINE DUCTWORK WITH TRANSITION		CONDENSATE DRAIN PIPING/PUMPED CONDENSATE DRAIN
	DUCT END CAP		CHILLED WATER RETURN/ CHILLED WATER SUPPLY
	MANUAL VOLUME DAMPER		HOT WATER RETURN/ HOT WATER SUPPLY
	SQUARE TO ROUND TRANSITION		HIGH PRESSURE STEAM (>60PSI)
	GRILLE DESIGNATION		MEDIUM PRESSURE STEAM (15-60 PSI)
	EXISTING GRILLE DESIGNATION		LOW PRESSURE STEAM (<15 PSI)
	SIDEWALL DIFFUSER		BOTTOM CONNECTION FITTING
	CEILING SUPPLY DIFFUSER		TOP CONNECTION FITTING
	CEILING RETURN REGISTER		ELBOW TURNED UP
	CEILING EXHAUST REGISTER		ELBOW TURNED DOWN
	ABOVE FINISHED FLOOR		VALVE
	CAPACITY		GLOBE VALVE
	C.F.M.		GLOBE ANGLE VALVE
	CV		BALL VALVE
	°F		BUTTERFLY VALVE
	FCU		BALANCING VALVE
	db/wb		RELIEF VALVE
	ELEC.		AUTOMATIC AIR VENT
	E.A.T./L.A.T.		MANUAL AIR VENT
	E.W.T./L.W.T.		STRAINER
	E.A.		BLOW OFF STRAINER
	E.S.P.		STEAM TRAPS
	ES/ER		2 WAY CONTROL VALVE
	FCU		3- WAY CONTROL VALVE
	FT.		ELECTRIC MOTOR VALVE ACTUATOR
	GAL.		ELECTRIC VALVE ACTUATOR
	G.P.M.		SCREWED UNION
	HP.		PRESSURE GUAGE AND COCK
	IN.		THERMOMETER
	IN. W.G. / FT. W.G.		PRESSURE/TEMPERATURE PLUG
	KW.		DUCT MOUNTED HUMIDIFIER
	MFR		DUCT MOUNTED TEMPERATURE SENSOR
	MAX.		DUCT MOUNTED AIR FLOW SENSOR
	MBH		WALL MOUNTED TEMPERATURE AND HUMIDISTAT
	MIN.		CONTROLLER
	MIN. EFF.		

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Revisions:	Date:

CONSULTANTS

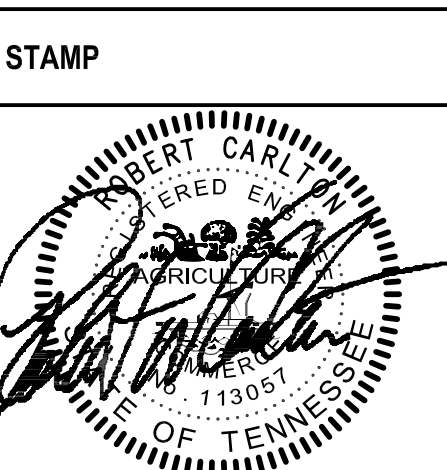
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Office of
Construction
and Facilities
Management

U.S. Department
of Veterans Affairs

Drawing Title

LEGEND AND GENERAL NOTES

Approved: Project Director

Phase

BID DOCUMENTS

FULLY SPRINKLERED

Project Title

VA Memphis Renovate
Operating Rooms

Location
Memphis, TN

Issue Date
01/31/2020

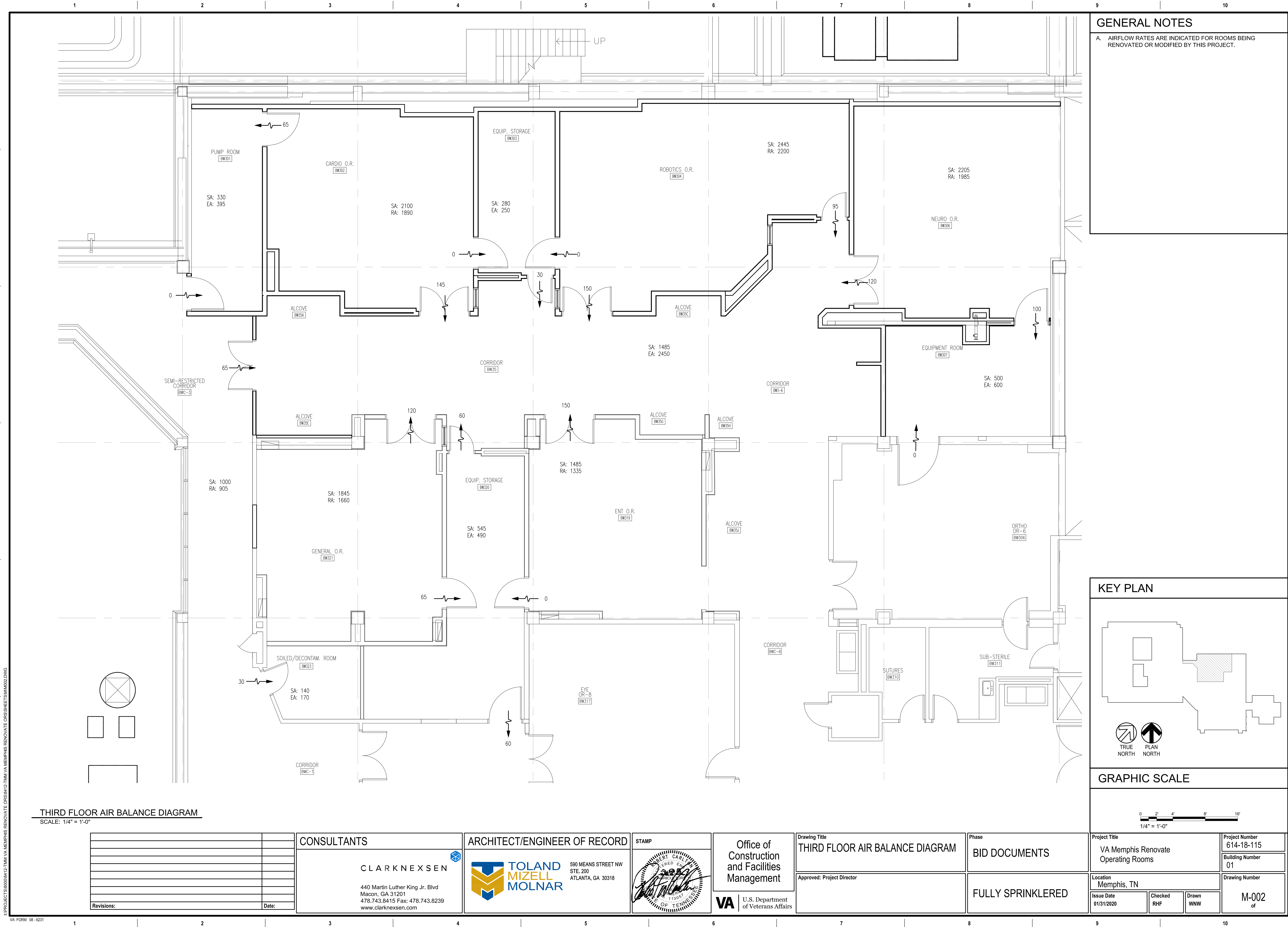
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Drawn
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Project Number
614-18-115

Building Number
01

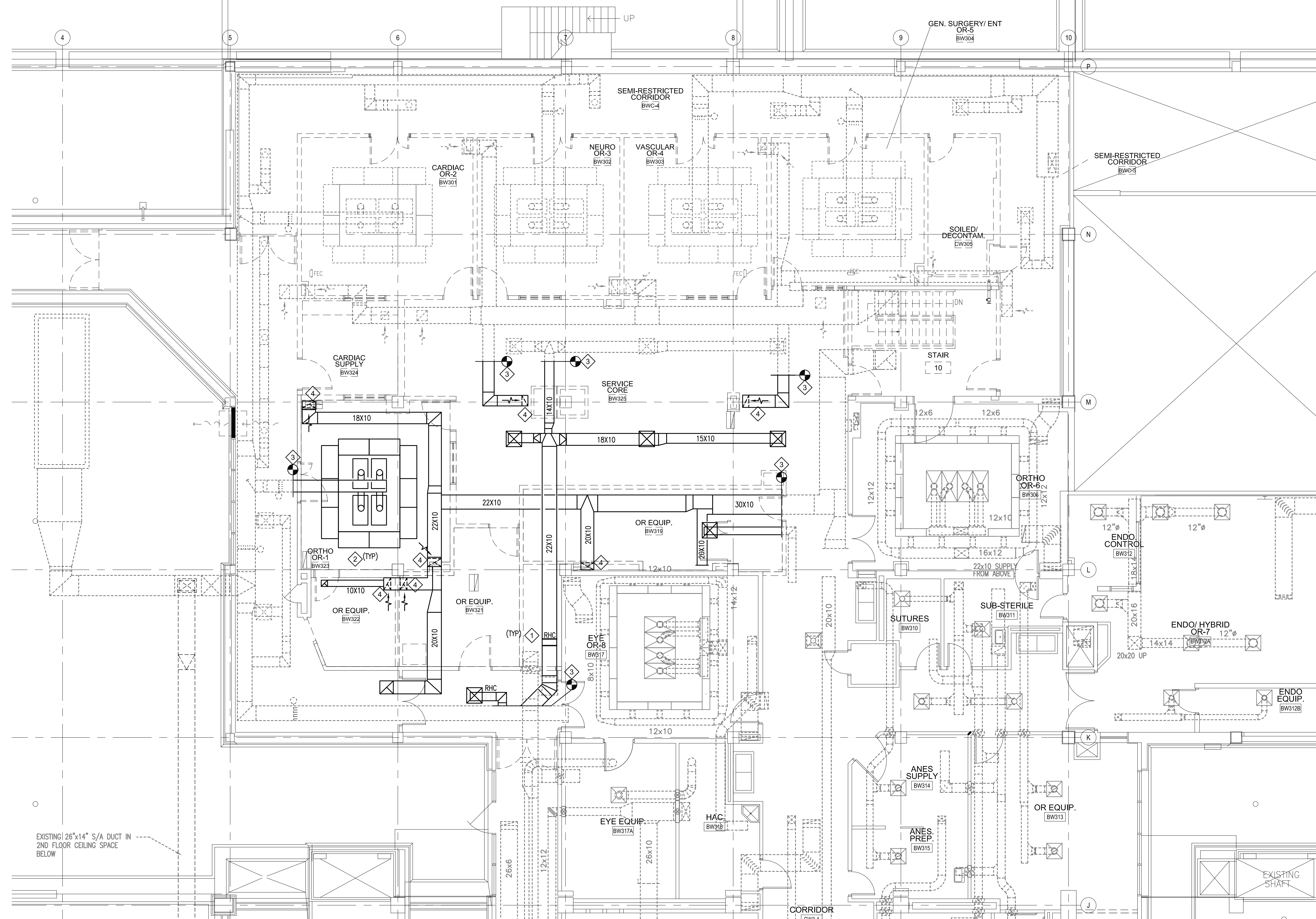
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MARK	PRIMARY AIR			TYPE	PRESSURE			DUCT CONN.		AIR HANDLING SYSTEM	HEATING COIL								CONTROL SEQUENCE	NOTES
	OCCL. MAX. C.F.M.	OCCL. MIN. C.F.M.	UNOCO MIN. C.F.M.		REHEAT. PARALLEL FAN	DESIGN INLET STATIC IN. W.G.	DESIGN DROP IN. W.G. MAX.	INLET	OUTLET		HOT WATER ELECTRIC	AIR TEMP. ENT./LVG.	CAP. MBH	G.P.M.	PRESS. DROP FT. W.G.	WATER TEMP LVG./ENT.	AIR FRICTION IN. W.G.	CONNECTIONS PIPE		
1-V1	195	195	100	*						AHU-OR	*	55/90	7.4	0.5		150/180			4/6	
1-V3	330	330	165	*						AHU-OR	*	55/90	12.5	0.8		150/180			4/6	
2-V3	280	280	140	*						AHU-OR	*	55/90	10.6	0.7		150/180			4/6	
1-V5	490	490	250	*						AHU-OR	*	55/90	18.5	1.2		150/180			4/6	
2-V5	500	500	250	*		2.5	0.5	8"ø	12X10	AHU-OR	*	55/90	19.0	1.3		150/180			1:2,3,5	
1-V9	1485	1485	745	*						AHU-OR	*	55/90	56.1	3.7		150/180			4/6	
2-V9	1050	1050	1050	*						AHU-OR	*	55/90	26.5	1.8		150/180			4/6	
1-V10	1000	1000	1000	*						AHU-OR	*	55/90	47.3	3.2		150/180			4/6	
1-C12	2100	2100	1050	*						AHU-OR	*	55/90	79.4	5.3		150/180			6/7	
2-C12	1845	1845	925	*						AHU-OR	*	55/90	69.7	4.7		150/180			6/7	
1-C13	2445	2445	1225	*						AHU-OR	*	55/90	92.4	6.2		150/180			6/7	
2-C13	1485	1485	745	*						AHU-OR	*	55/90	69.7	4.7		150/180			6/7	
1-C14	2205	2205	1105	*						AHU-OR	*	55/90	83.4	5.6		150/180			6/7	
1-R5	555	555								AHU-OR									6	
2-R5	665	665								AHU-OR									6	
3-R5	670	670								AHU-OR									6	
4-R5	555	555								AHU-OR									6	
5-R5	555	555								AHU-OR									6	
1-R7	905	905								AHU-OR									6	
2-R7	1050	1050								AHU-OR									6	
3-R7	1050	1050								AHU-OR									6	
4-R7	995	995				2.5	0.5	10"ø	14X12	AHU-OR									1:2,3	
1-R9	1225	1225				2.5	0.5	12"ø	14X12	AHU-OR									1:2,3	
2-R9	1220	1220				2.5	0.5	12"ø	14X12	AHU-OR									1:2,3	
3-R9	990	990				2.5	0.5	12"ø	14X12	AHU-OR									1:2,3	
NOTES																				
1. MAXIMUM AIR PRESSURE DROP FOR TERMINAL IS SUM OF DESIGN DROP AND COIL DROP AT MAXIMUM C.F.M.																				
2. N.C. LEVEL BASED ON 10dB ROOM ABSORPTION, RE RAISED TO THE -12 WATTS.																				
3. PRIMARY AIR VALVE C.F.M. SHALL NOT EXCEED MANUFACTURER'S "NOMINAL C.F.M.".																				
4. CONSTANT VOLUME TERMINAL UNIT.																				
5. REHEAT COIL SHALL BE COPPER-COPPER CONSTRUCTION.																				
6. EXISTING TERMINAL UNIT. BALANCE TO SCHEDULED VALUES.																				
7. VARIABLE VOLUME TERMINAL UNIT.																				

AIR FILTER SCHEDULE															
MARK	MNFR		MODEL NO.	TYPE		C.F.M.	SIZE	DUST SPOT EFF. % ASHRAE STANDARD 52.1-92	CLEAN FILTER AIR FRICTION IN. W.G.	ACCESSORIES				SYSTEM SERVED	NOTES
	FLANDERS	* FARR		ROLL	PANEL					BAG	FILTER FRAME	* SIDE SEWIC ACCESS	CONTROL BOX		
F-1		*	XH		*		2655	48X24	99.99	0.78		*			RECOVERY 1;2;
NOTES															
1. TWO 24X24 FILTERS REQUIRED.															
2. MAGNA PACK FILTER HOUSING DIMENSIONS ARE 52"x28.5"x27" (L X W X H).															

VA FORM 08-6201									
1	2	3	4	5	6	7	8	9	10



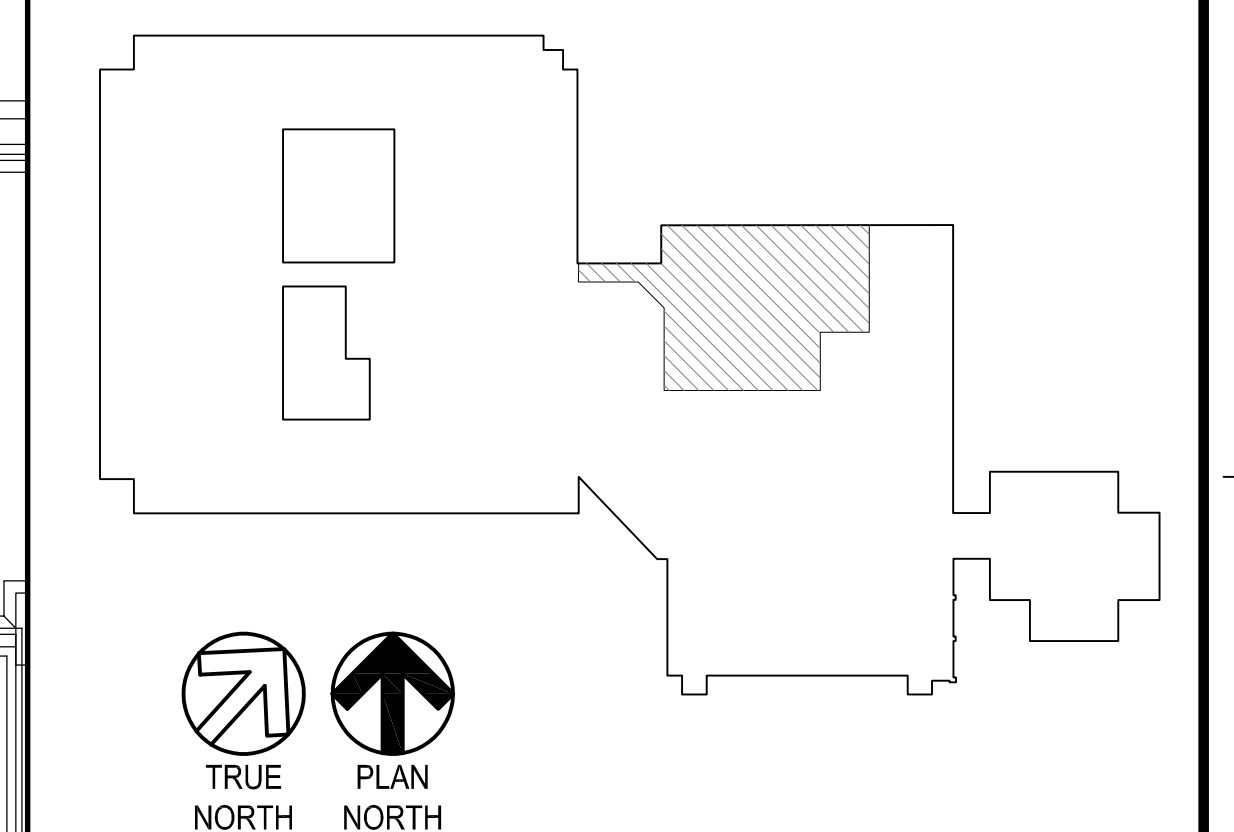
GENERAL NOTES

- A. ALL EQUIPMENT TO BE REMOVED SHALL BE REMOVED FROM THE SITE IN ITS ENTIRETY, INCLUDING ALL DUCTWORK, GRILLES, DIFFUSERS, PIPING, CONTROLS, ACCESSORIES, ETC RENDERED ABANDONED BY THE REMOVAL OF THE EQUIPMENT.
- B. DUCTWORK SHOWN TO BE REMOVED IS LOCATED ABOVE HARD CEILING. CONTRACTOR TO PROVIDE CONSERVATIVE ESTIMATE FOR REMOVAL OF DUCTWORK AND FIELD VERIFY EXISTING CONDITIONS.

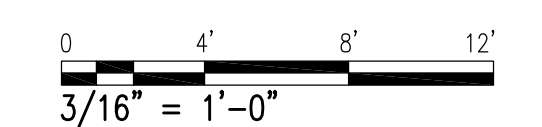
DEMOLITION KEY NOTES

1. REMOVE REHEAT COIL, INCLUDING ALL ASSOCIATED CONTROLS, PIPING, ETC RENDERED ABANDONED BY THE REMOVAL OF THE REHEAT COIL.
2. OPERATING SUPPLY DIFFUSERS TO BE REMOVED.
3. REMOVE DUCT TO SCOPE OF WORK MARK. PROVIDE MEANS TO TEMPORARY SEAL DUCT.
4. DUCT DOWN TO RETURN GRILLE IN WALL. REMOVE DUCT AND GRILLE.

KEY PLAN



GRAPHIC SCALE



THIRD FLOOR DEMOLITION PLAN -
PHASE 1

SCALE: 3/16" = 1'-0"

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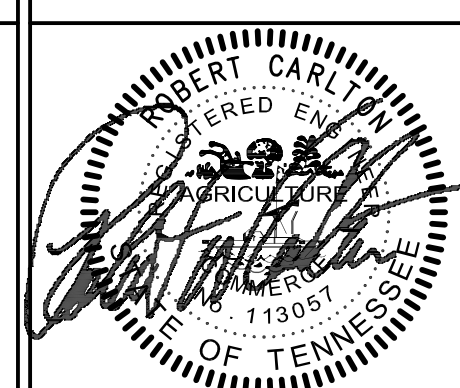
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Management

U.S. Department
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	Drawing Title
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THIRD FLOOR DEMOLITION PLAN -
PHASE 1

Approved: Project Director

	Phase
1	Phase 1
2	Phase 2
3	Phase 3
4	Phase 4
5	Phase 5
6	Phase 6
7	Phase 7
8	Phase 8
9	Phase 9
10	Phase 10
11	Phase 11
12	Phase 12
13	Phase 13
14	Phase 14
15	Phase 15
16	Phase 16
17	Phase 17
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97	Phase 97
98	Phase 98
99	Phase 99
100	Phase 100

BID DOCUMENTS

FULLY SPRINKLERED

	Project Title
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VA Memphis Renovate
Operating Rooms

Location	Memphis, TN
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Issue Date	01/31/2020
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Checked
RHF

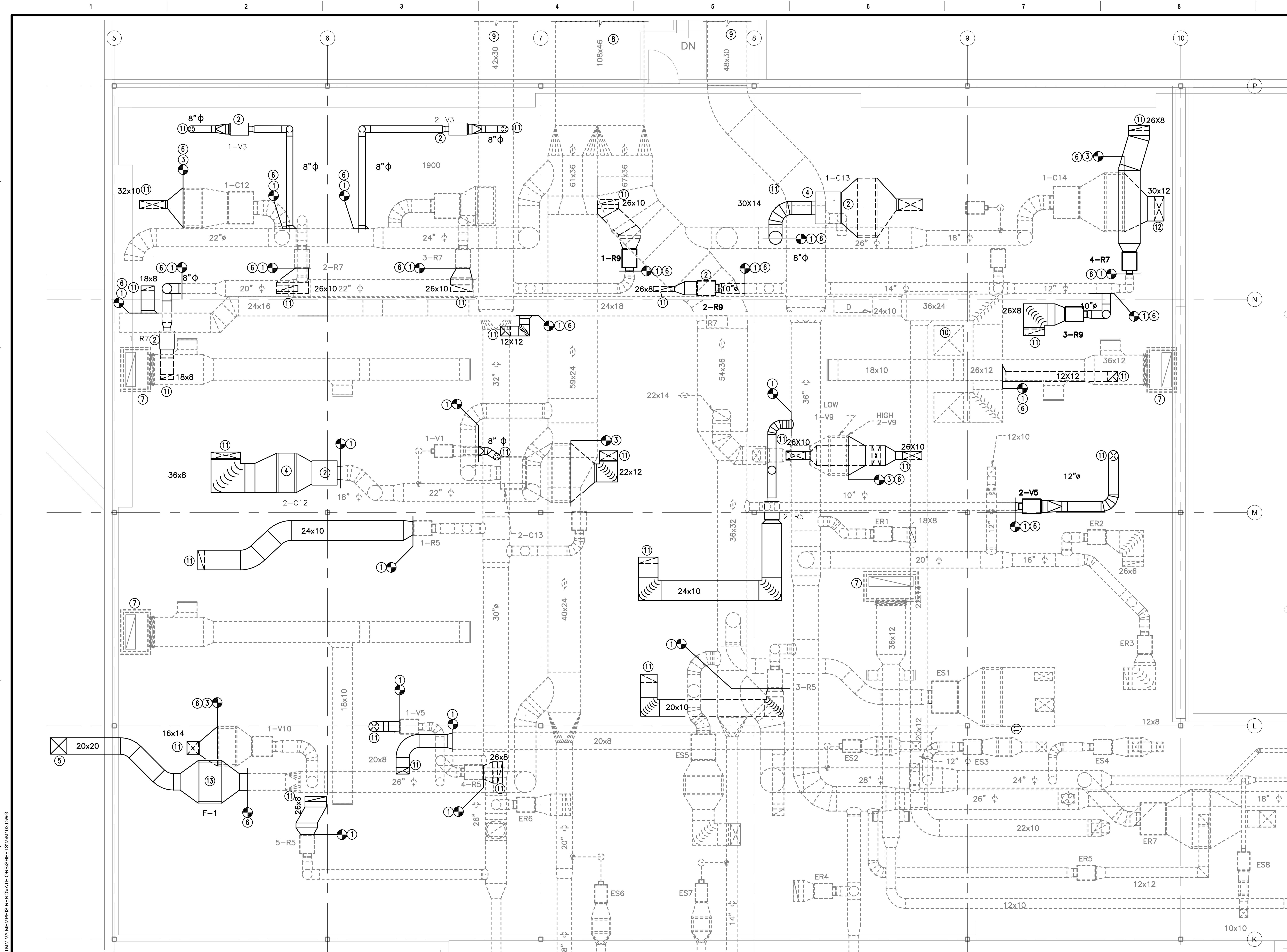
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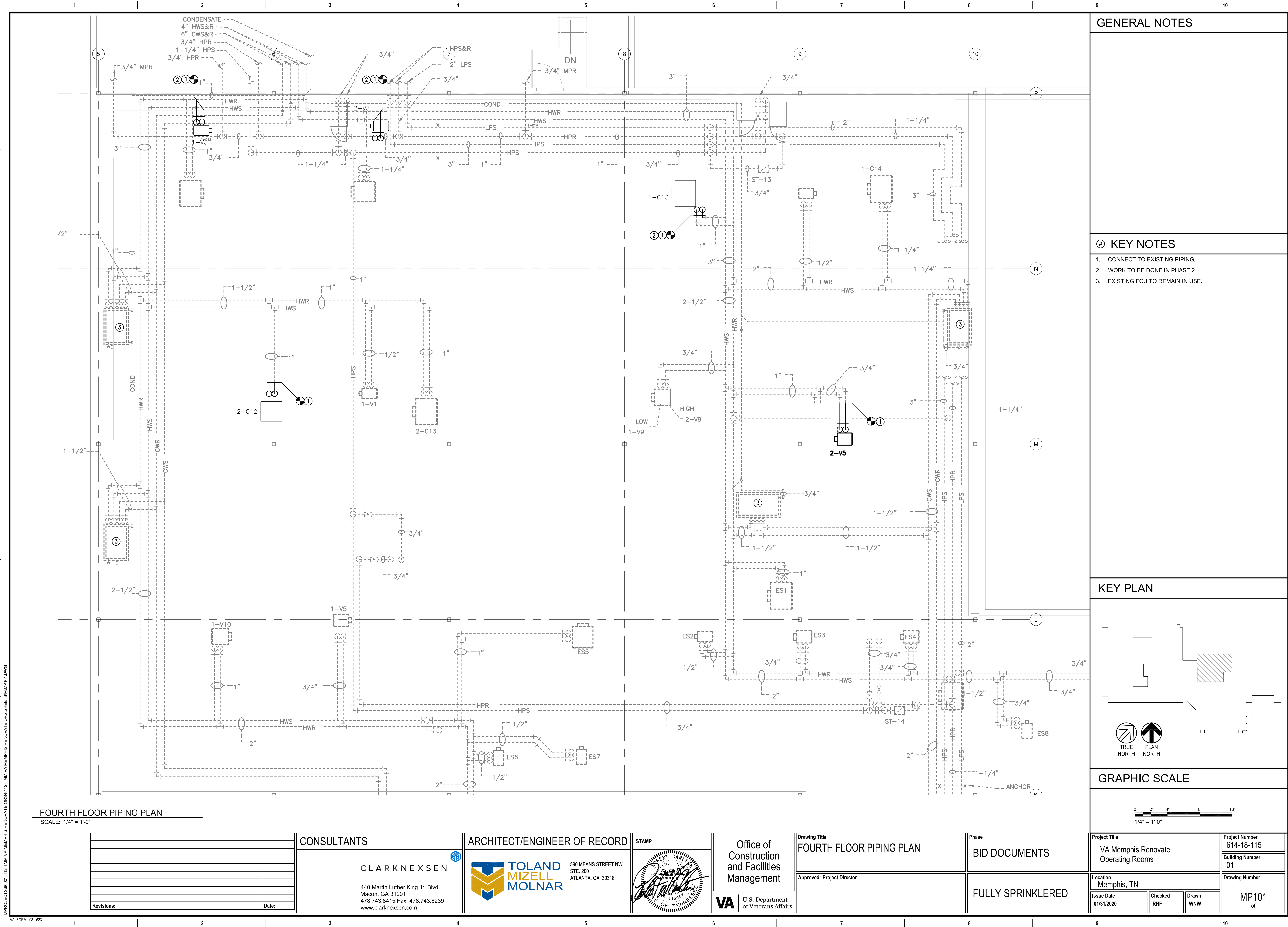
Project Number
614-18-115

Building Number	01
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Drawing Number

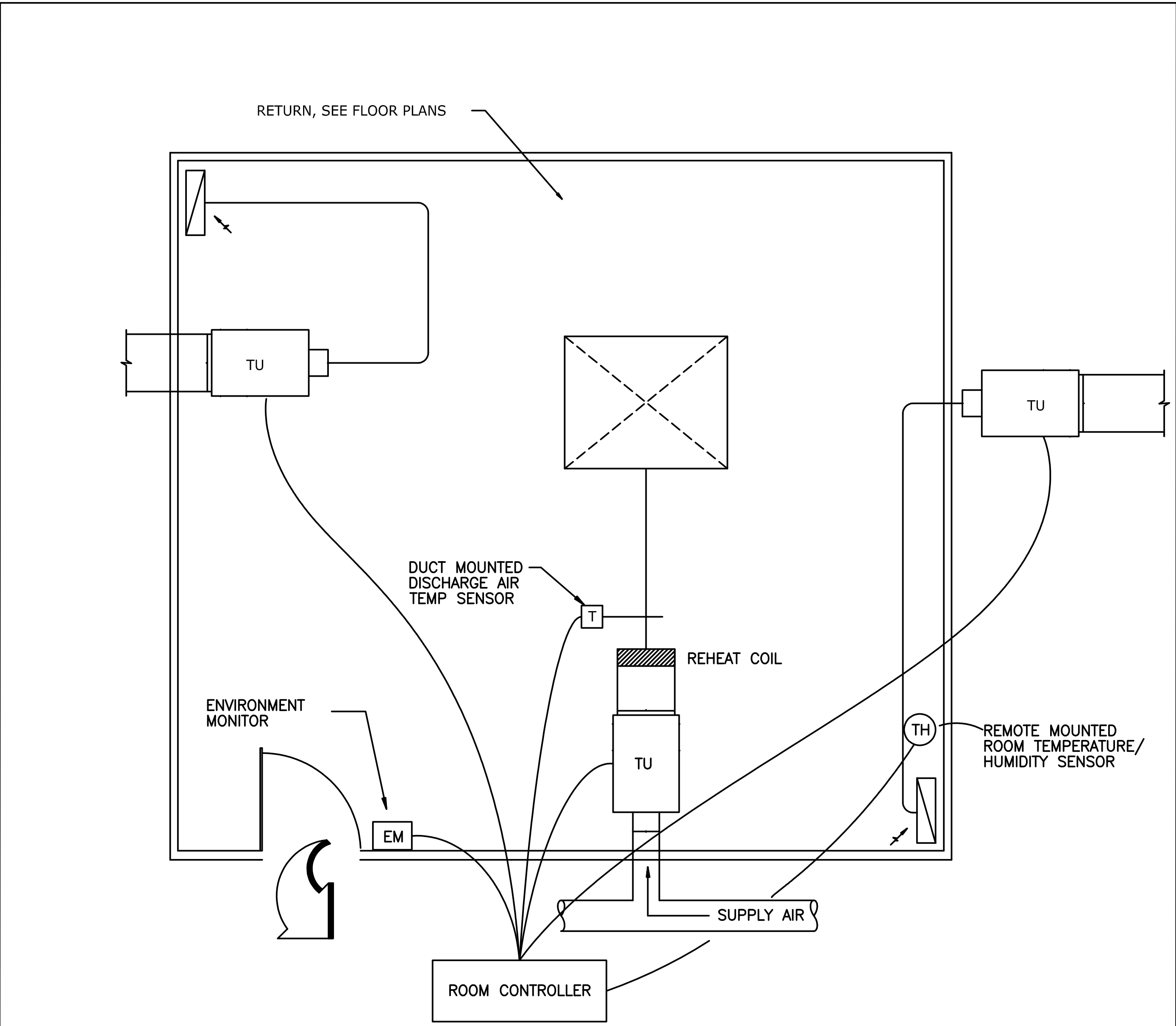
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NORMAL OCCUPIED MODE
THE SUPPLY BOX AND RETURN BOX SHALL MAINTAIN THE REQUIRED CFM AS INDICATED ON THE DRAWINGS. THE SUPPLY AIR REHEAT COIL AT THE BOX SHALL BE CONTROLLED BY REMOTE ROOM TEMPERATURE /HUMIDITY SENSOR.

THE DUCT MOUNTED DISCHARGE AIR TEMP SENSOR SHALL BE UTILIZED AS ADDITIONAL CONTROL LOOP TO MINIMIZE OVERSHOOT.

NORMAL UNOCCUPIED MODE
THROUGH A CONTROLLER LOCATED WHERE THE CHARGE NURSE SPECIFIES, THE OPERATING ROOMS SHALL BE CAPABLE OF BEING PLACED IN UNOCCUPIED MODE. THE SUPPLY AND RETURN BOXES SHALL MODULATE THEIR RESPECTIVE DAMPERS TO PROVIDE 50% OF THEIR DESIGN AIRFLOWS. THE BOXES SHALL RETURN TO NORMAL MODE AS DIRECTED BY THE CHARGE NURSE CONTROLLER.

THE SUPPLY BOX AND RETURN BOX SHALL MAINTAIN THE REDUCED CFM AND THE SUPPLY AIR REHEAT COIL AT THE CAV BOX SHALL BE CONTROLLED BY REMOTE ROOM TEMPERATURE/HUMIDITY SENSOR.

THE DUCT MOUNTED DISCHARGE AIR TEMP SENSOR SHALL BE UTILIZED AS ADDITIONAL CONTROL LOOP TO MINIMIZE OVERSHOOT.

TEMPERATURE CONTROL SEQUENCE
THE COOLING TEMPERATURE SETPOINT OF THE ROOM ENVIRONMENTAL MONITOR SHALL BE LIMITED TO 62 DEG.F.(ADJ.)
THE HEATING TEMPERATURE SETPOINT OF THE ROOM ENVIRONMENTAL MONITOR SHALL BE LIMITED TO 85 DEG.F.(ADJ.)

THE SUPPLY BOX SHALL MAINTAIN THE REQUIRED CFM AS INDICATED ON THE DRAWINGS.

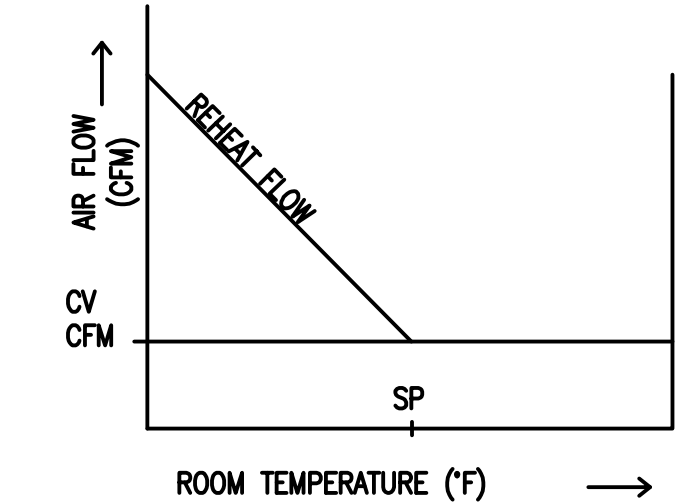
ON A CALL FOR COOLING THE BOX SHALL MAINTAIN THE REQUIRED CFM CONSTANT VOLUME.

ROOM ENVIRONMENT MONITOR
SHALL DISPLAY TEMPERATURE, HUMIDITY, ROOM PRESSURE AND AIR CHANGES PER HOUR IN THE OPERATING ROOM.

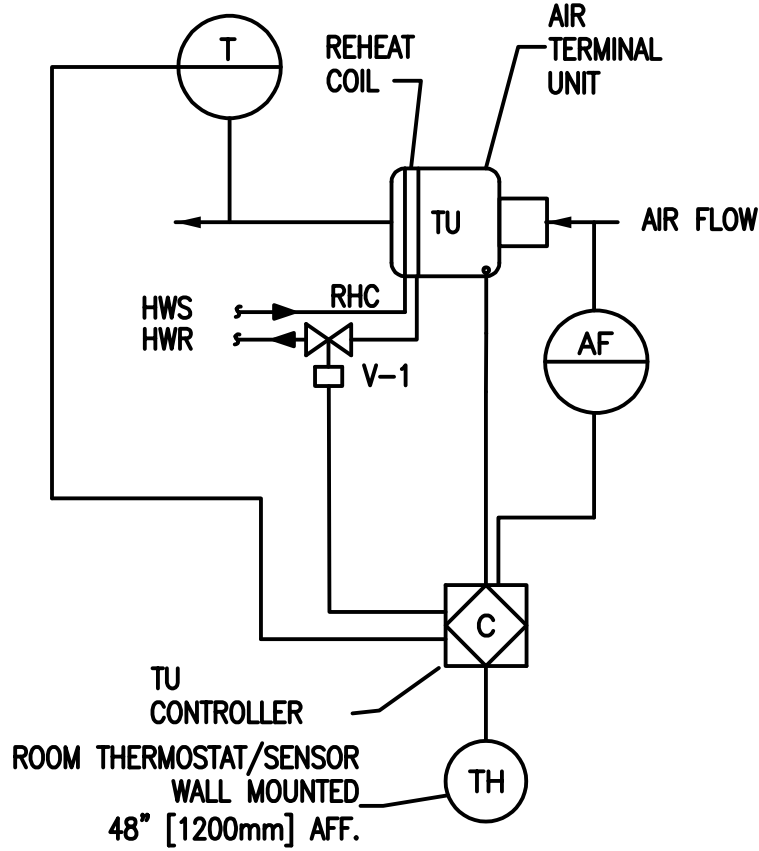
ALARMS
THE CONTROLS SYSTEM SHALL ALARM THE USER INTERFACE IF ANY OF THE FOLLOWING OCCUR:

- AIR CHANGES PER HOUR ARE BELOW 20 IN OCCUPIED MODE
- AIR CHANGES PER HOUR ARE BELOW 10 IN UNOCCUPIED MODE
- SPACE TEMPERATURE IS NOT AT SETPOINT FOR 30 MINUTES (ADJUSTABLE) OR LONGER
- SPACE HUMIDITY NOT A SETPOINT FOR 30 MINUTES (ADJUSTABLE) OR LONGER
- SPACE PRESSURE IS NOT +0.06 IN WC (ADJUSTABLE) DURING OCCUPIED MODE

TYPICAL OPERATING ROOM CONTROL



CV BOX CONTROL SEQUENCE
NO DEADBAND
A. UPON FALL IN SPACE TEMPERATURE BELOW SET POINT VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT ± .5', THE ADJUSTABLE TOLERANCE OF ± .5' HAS BEEN SELECTED TO PREVENT VALVE HUNTING
B. THE REVERSE SHALL OCCUR ON RISE IN SPACE TEMPERATURE.



CONSTANT VOLUME AIR TERMINAL UNIT CONTROL DIAGRAM

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