

KEY PLAN

ORIENTATION

- GENERAL NOTES:
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REV. NO	REVISION DESCRIPTION	DATE
R0	ISSUED FOR TENDER	07.02.2025
R1		
R2		
R3		
R4		
R5		
R6		

PROJECT

JSW ACADEMIC BLOCK - NLSIU
NEW ACADEMIC BLOCK Gnaa Bharathi
Main Rd, Teachers Colony, Naagarabhaavi,
Bengaluru, Karnataka 560072

CLIENT

NATIONAL LAW SCHOOL OF
INDIA UNIVERSITY
Gnaa Bharathi Main Rd, Teachers
Colony, Naagarabhaavi, Bengaluru,
Karnataka 560072

ARCHITECT

HUNDREDHANDS
9/2, Madras Bank Road,
Shantiniketan Nagar, Ashok Nagar, Bengaluru,
Karnataka 560001

STRUCTURAL

RAYS CONSULTING ENGINEERS
#30, 1st Main, 6th Cross,
UAS layout, Sanjay Nagar,
Bangalore - 560094

MEPF AND IBMS CONSULTANTS

LEAD CONSULTANCY & ENGINEERING SERVICES (INDIA) Pvt. Ltd.
Eco-Friendly Solutions
No. 2729, 1st Floor, 80 Feet Road
INDIRA NAGAR III STAGE, BENGALURU-560038, KARNATAKA,
Phone: +91 80 42980111, Web: lcsind.org
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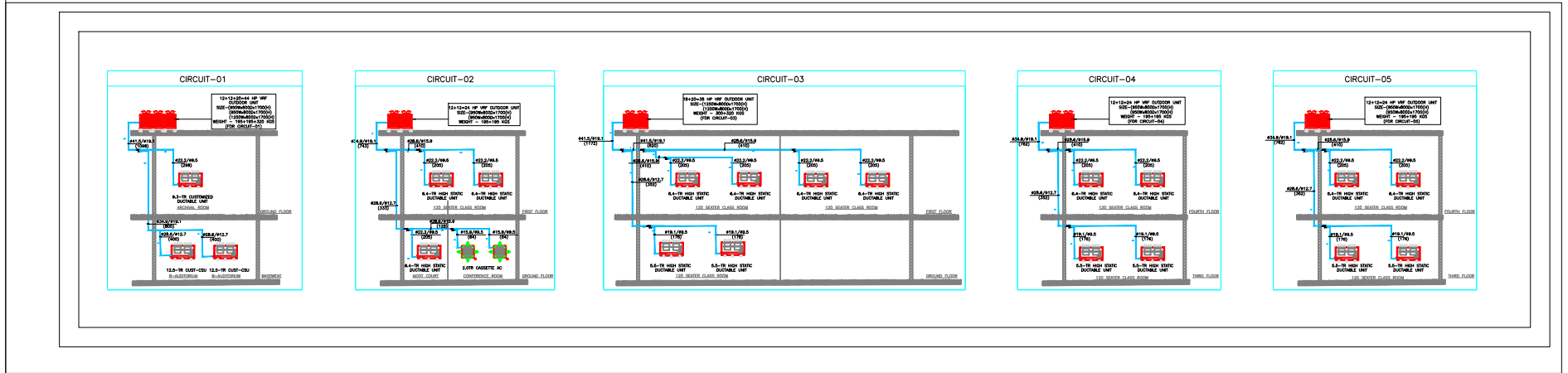
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DRAWN BY	V.V.	DRAWING NUMBER	SCALE
CHECKED	A.A.	LCS-NLS-HVAC-B1-01	SHEET SIZE
APPROVED	PHM	REVISION - R0	DATE
			05.02.2025

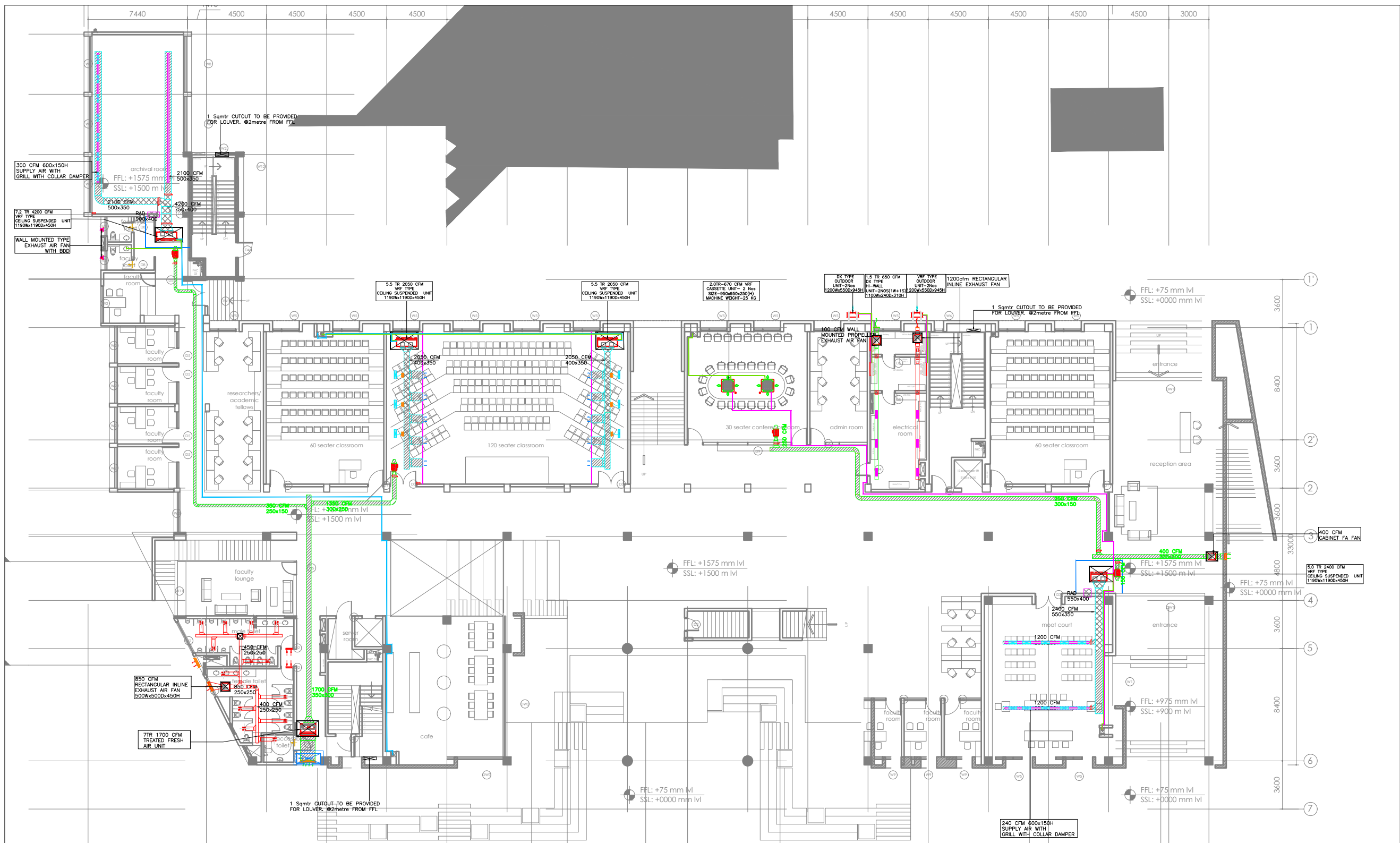
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TENDER

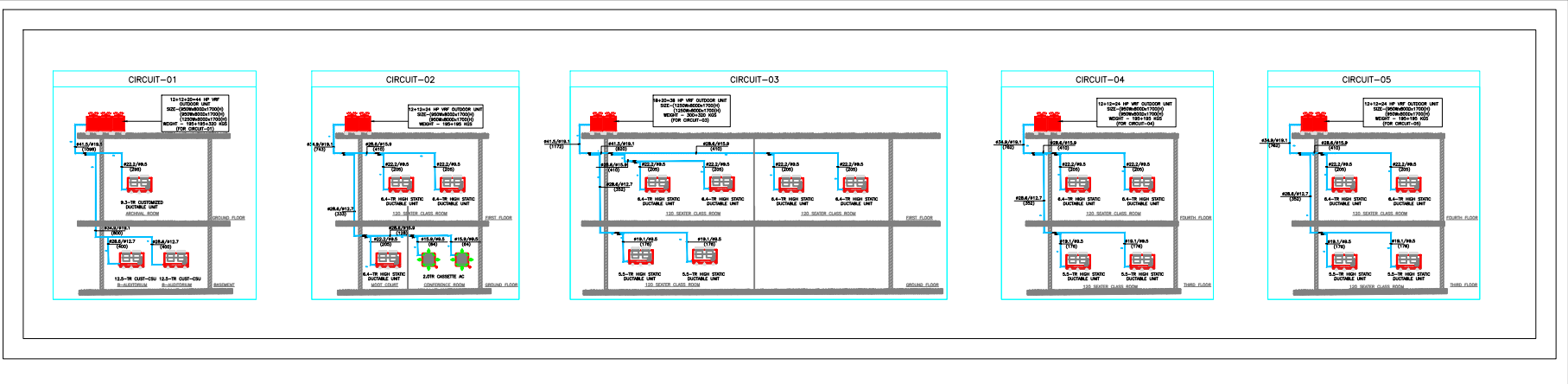
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HVAC LEGEND	
	SQUARE SUPPLY AIR DUCT
	FRESH AIR DUCT
	RETURN AIR DUCT
	EXHAUST AIR DUCT
	PANTRY EXHAUST AIR DUCT
	OVAL DUCT
	SUPPLY AIR ROUND DIFFUSED
	RETURN AIR ROUND DIFFUSED
	SUPPLY AIR SQUARE DIFFUSED
	RETURN AIR SQUARE DIFFUSED
	SUPPLY AIR GRILL
	RETURN AIR GRILL
	EXHAUST AIR GRILL
	SLOT DIFFUSER
	BUTTER FLY DAMPER
	VARIABLE AIR VOLUME (VAV)
	THERMOSTAT WALL MOUNTED
	THERMOSTAT CEILING MOUNTED
	DUCT STATIC PRESSURE SENSOR
	ACCESS DOOR
	CEILING SUSPENDED UNIT (CSU)
	VRF OUT DOOR UNIT
	VRF REFRIGERANT PIPES
	REFNET JOINT
	BACK DRAFT DAMPER
	VOLUME CONTROL DAMPER
	MOTORIZED VOLUME CONTROL DAMPER
	FUSIBLE LINK FIRE DAMPER
	MOTORIZED FIRE DAMPER
	TOILET EXHAUST DISC VALVE
	15mm DOOR UNDER CUT
	DOOR UNDER CUT LOUVER
	CHILLED WATER SUPPLY & RETURN PIPE
	DRAIN PIPE
	TRAY
	SOUND ALTERNATOR
	ACOUSTIC INSULATION
	THERMAL INSULATION
	SPEECH PRIVACY DUCT WITH ACOUSTIC INSULATION





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	PANTRY EXHAUST AIR DUCT
	OVAL DUCT
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	RETURN AIR ROUND DIFFUSED
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	RETURN AIR SQUARE DIFFUSED
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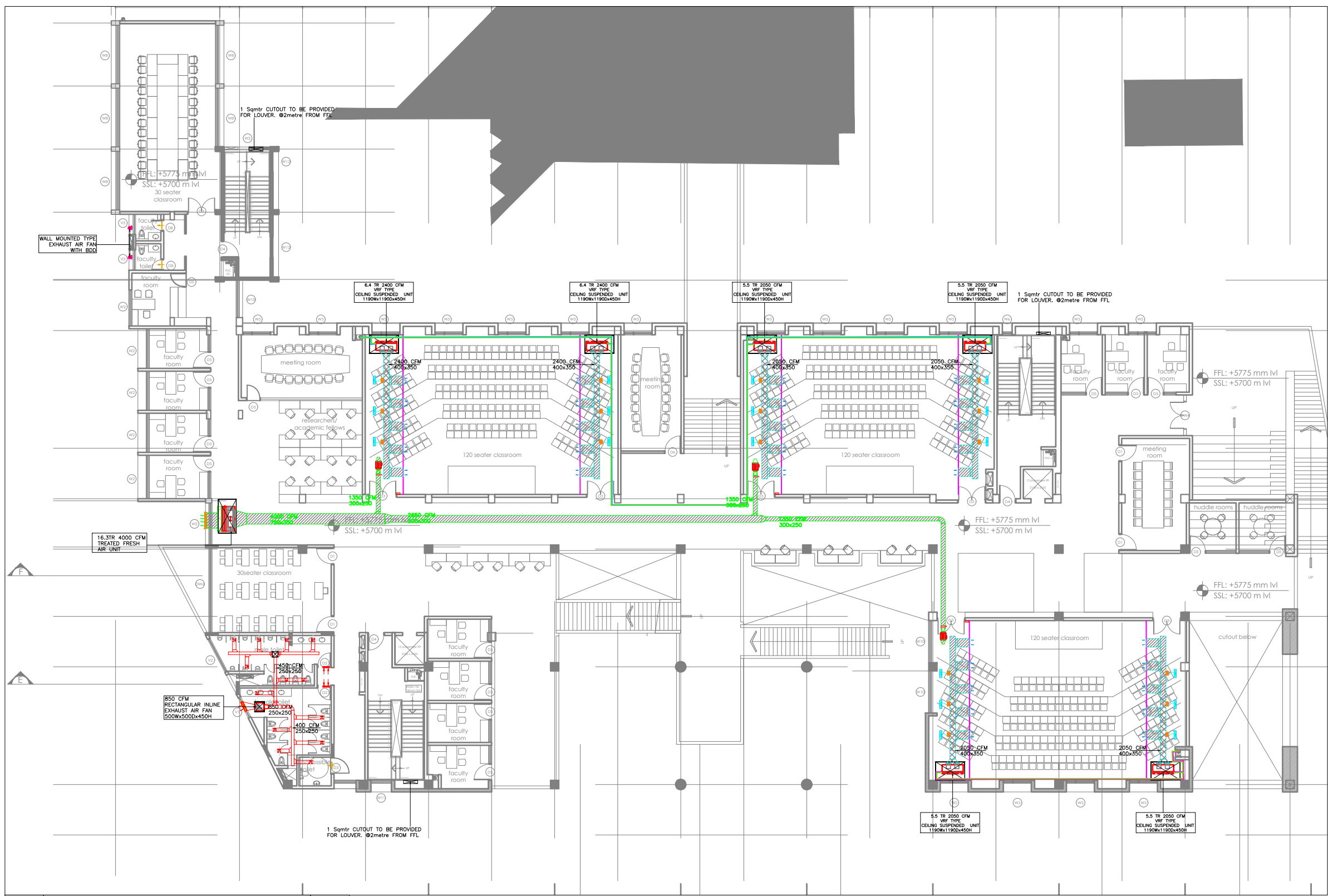
LEAD CONSULTANCY & ENGINEERING SERVICES (INDIA) Pvt. Ltd.
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No.2729, 1st FLOOR, 80 FEET ROAD
INDIRA NAGAR III STAGE, BENGALURU-560038, KARNATAKA,
Phone: +91 80 42980111, Web: lcsindia.org
India: Bengaluru | Mumbai | Pune | Gurgaon | Chennai | Hyderabad | Kolkata

DRAWING TITLE			
GROUND FLOOR HVAC LAYOUT			
DRAWN BY	VY	DRAWING NUMBER	LCES-NLS-HVAC-GF-02
CHECKED	AA	SCALE	1:150
APPROVED	PHM	SHEET SIZE	A1
		REVISION - R0	DATE 07.02.2025

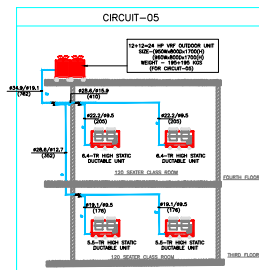
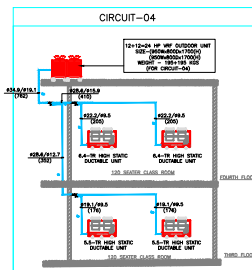
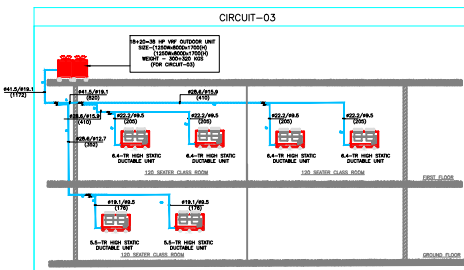
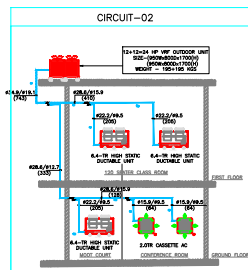
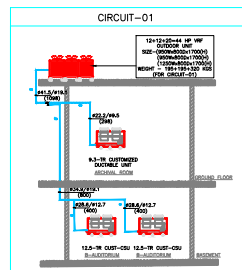
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	FRESH AIR DUCT
	RETURN AIR DUCT
	EXHAUST AIR DUCT
	PANTRY EXHAUST AIR DUCT
	OVAL DUCT
	SUPPLY AIR ROUND DIFFUSED
	RETURN AIR ROUND DIFFUSED
	SUPPLY AIR SQUARE DIFFUSED
	RETURN AIR SQUARE DIFFUSED
	SUPPLY AIR GRILL
	RETURN AIR GRILL
	EXHAUST AIR GRILL
	SLOT DIFFUSER
	BUTTER FLY DAMPER
	VARIABLE AIR VOLUME (VAV)
	THERMOSTAT WALL MOUNTED
	THERMOSTAT CEILING MOUNTED
	DUCT STATIC PRESSURE SENSOR
	ACCESS DOOR
	CEILING SUSPENDED UNIT (CSU)
	VRF OUT DOOR UNIT
	VRF REFRIGERANT PIPES
	REFNET JOINT
	BACK DRAFT DAMPER
	VOLUME CONTROL DAMPER
	MOTORIZED VOLUME CONTROL DAMPER
	FUSIBLE LINK FIRE DAMPER
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	TOILET EXHAUST DISC VALVE
	15mm DOOR UNDER CUT
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	DRAIN WATER SUPPLY & RETURN PIPE
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DRAWING TITLE

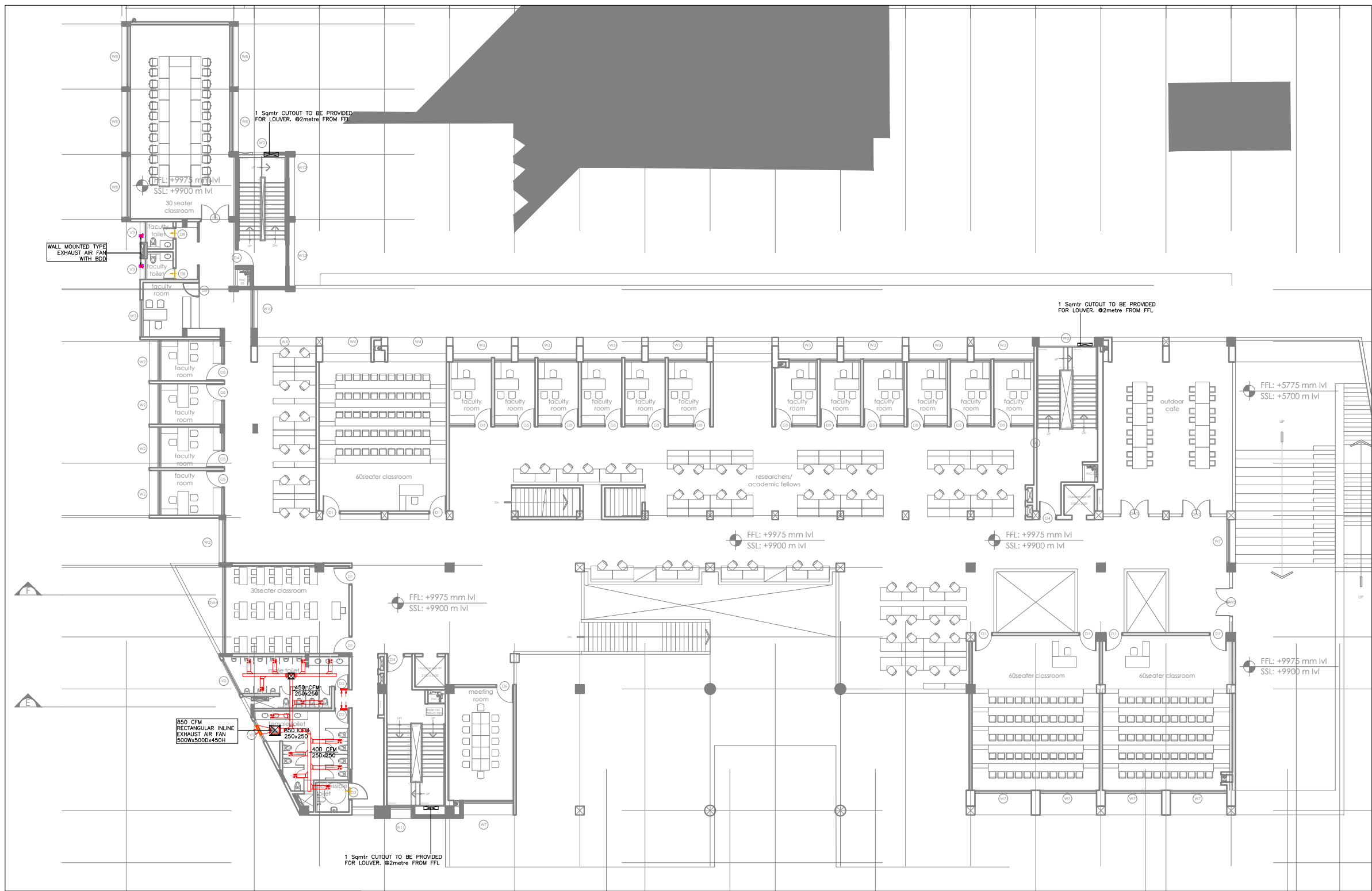
FIRST FLOOR HVAC LAYOUT

DRAWN BY	V.Y	DRAWING NUMBER	LCES-NLS-HVAC-1F-03	SCALE	1:150
CHECKED	AA			SHEET SIZE	A1
APPROVED	PHM	REVISION - R0		DATE	07.02.2025

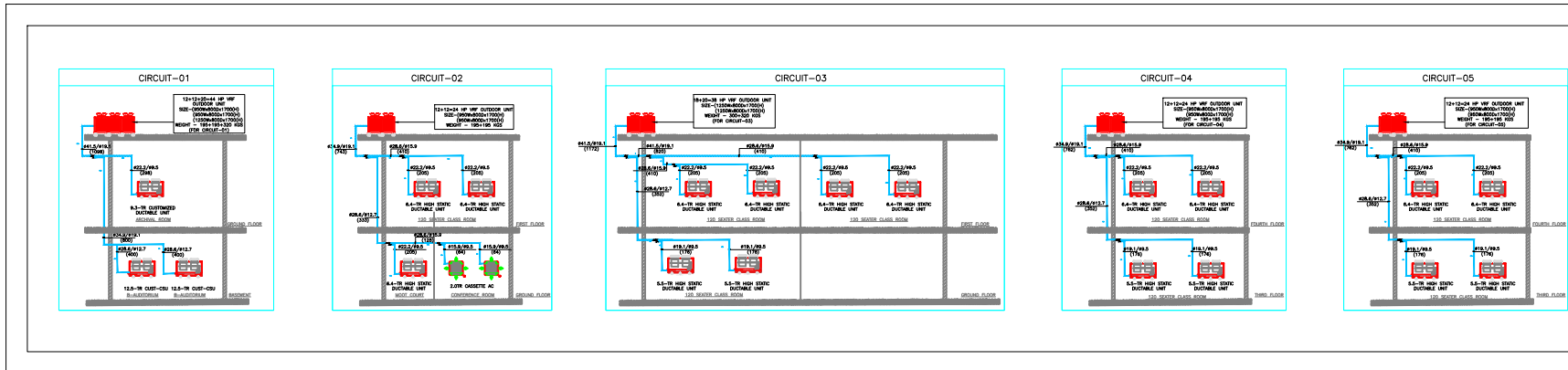
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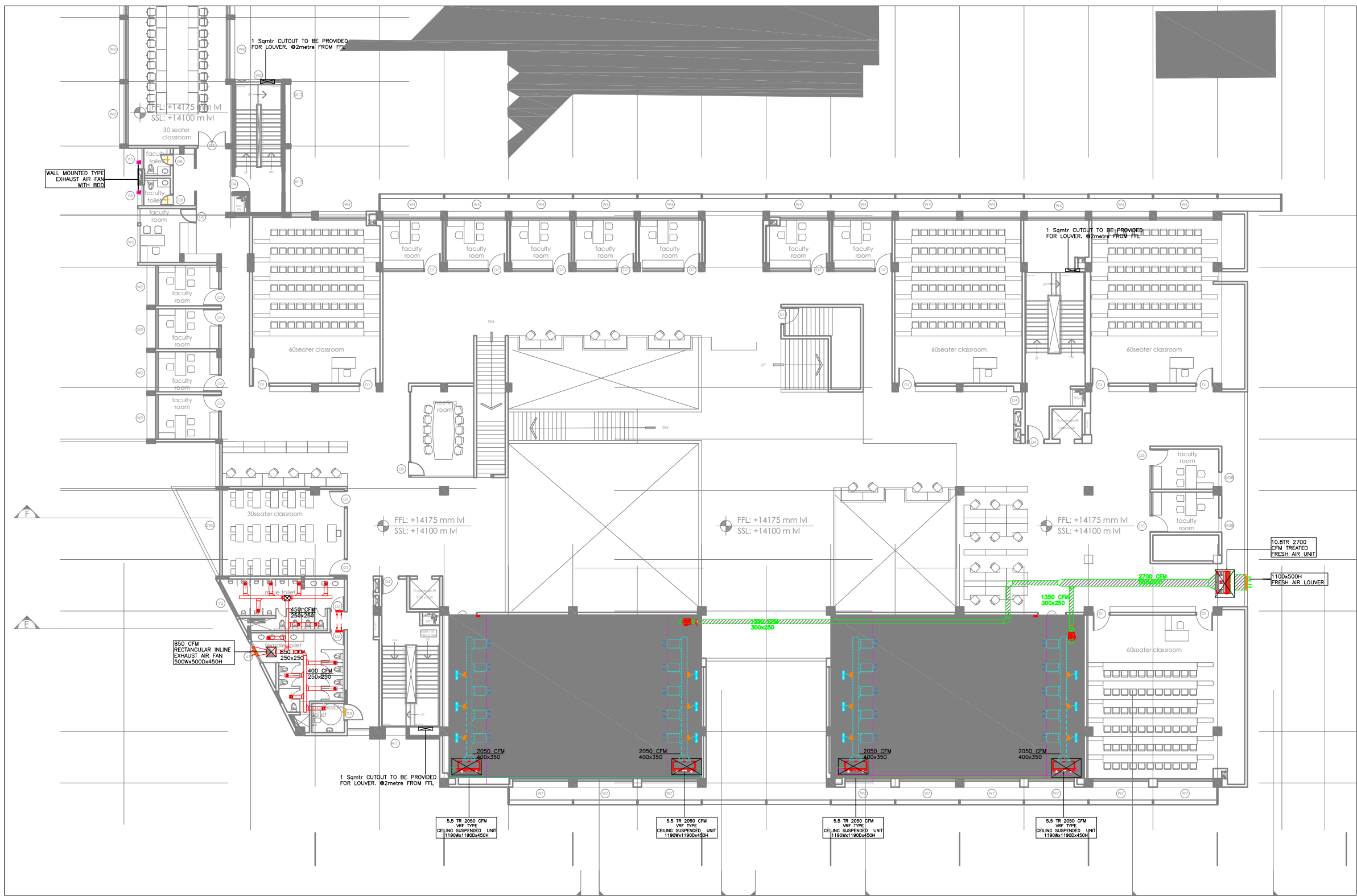
DRAWING TITLE

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APPROVED PHM			

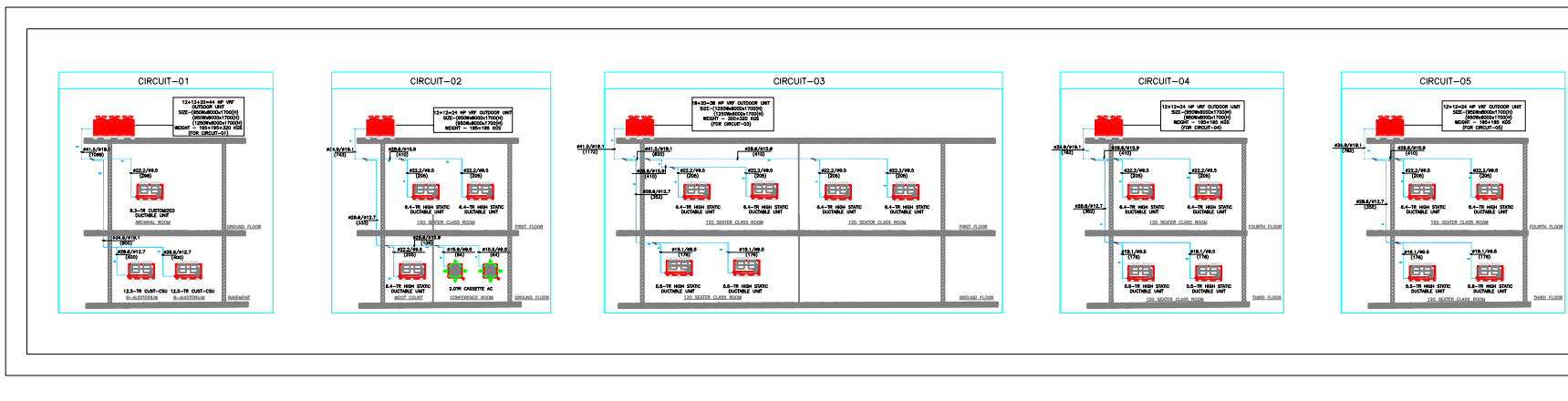
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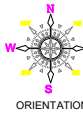
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HVAC LEGEND	
	SQUARE SUPPLY AIR DUCT
	FRESH AIR DUCT
	RETURN AIR DUCT
	EXHAUST AIR DUCT
	PANTRY EXHAUST AIR DUCT
	OVAL DUCT
	SUPPLY AIR ROUND DIFFUSED
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	SUPPLY AIR SQUARE DIFFUSED
	RETURN AIR SQUARE DIFFUSED
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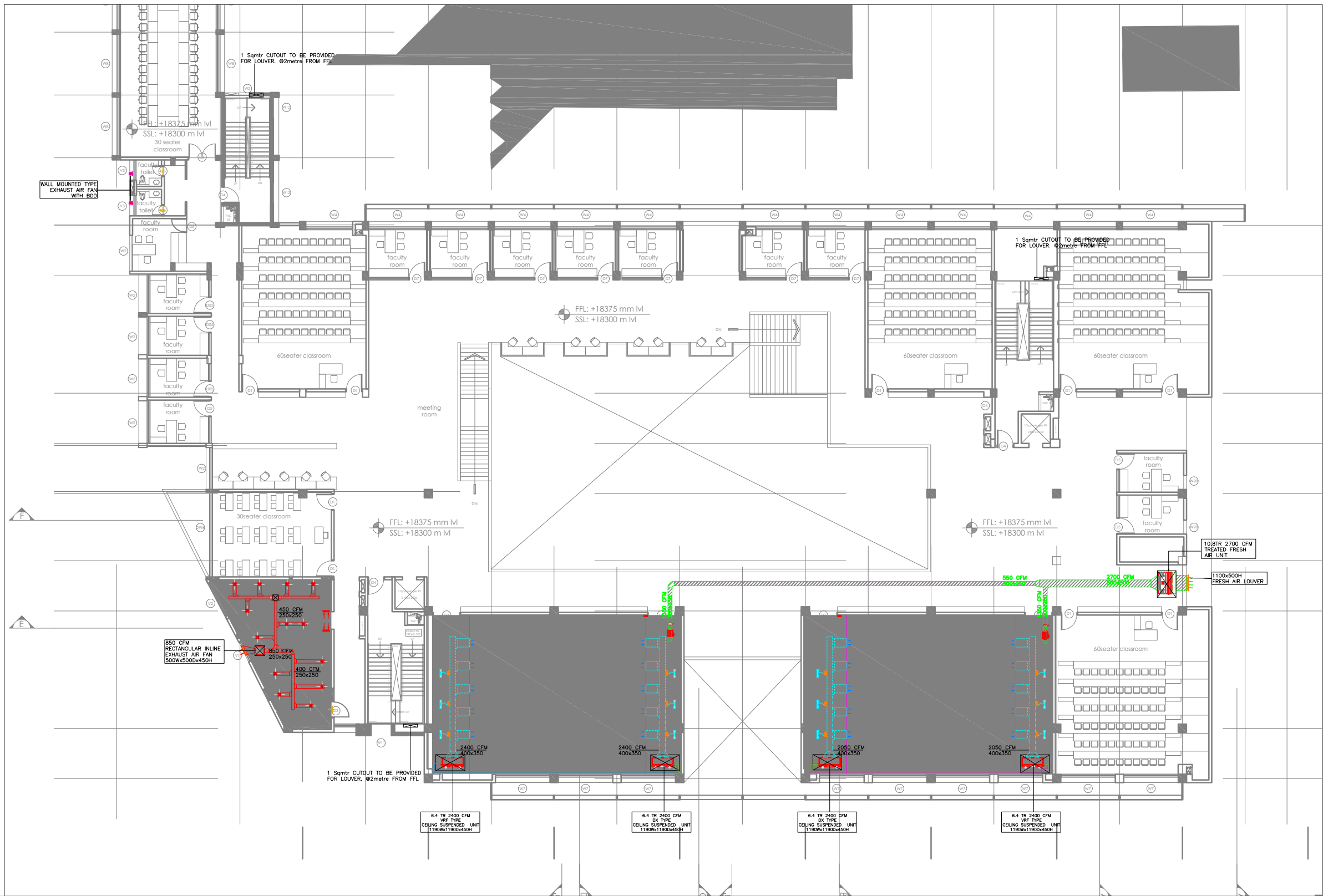
THIRD FLOOR HVAC LAYOUT

DRAWN BY	VY	DRAWING NUMBER	LCES-NLS-HVAC-3F-05	SCALE	1:150
CHECKED	AA	REVISION	REVISION - R0	SHEET SIZE	A1
APPROVED	PHM	DATE	07.02.2025		

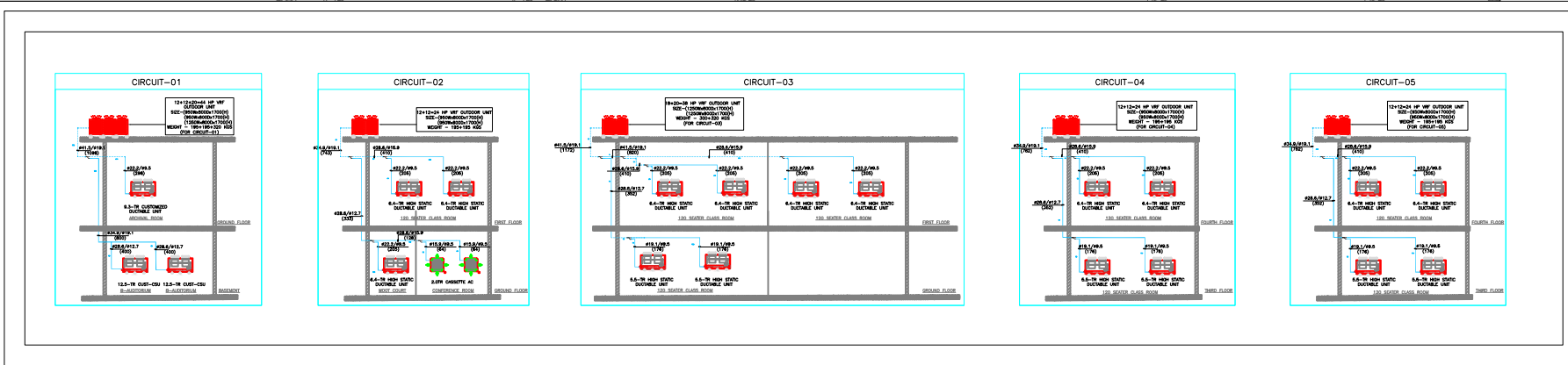
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	EXHAUST AIR DUCT		REFNET JOINT
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	RETURN AIR SQUARE DIFFUSED		TOILET EXHAUST DISC VALVE
	SUPPLY AIR GRILL		15mm DOOR UNDER CUT
	RETURN AIR GRILL		DOOR UNDER CUT LOUVER
	EXHAUST AIR GRILL		CHILLED WATER SUPPLY & RETURN PIPE
	SLOT DIFFUSER		DRAIN PIPE
	BUTTER FLY DAMPER		TRAY
	VARIABLE AIR VOLUME (VAV)		SOUND ATTENUATOR
	THERMOSTAT WALL MOUNTED		ACOUSTIC INSULATION
	THERMOSTAT CEILING MOUNTED		THERMAL INSULATION
	DUCT STATIC PRESSURE SENSOR		SPEECH PRIVACY DUCT WITH ACOUSTIC INSULATION
	ACCESS DOOR		



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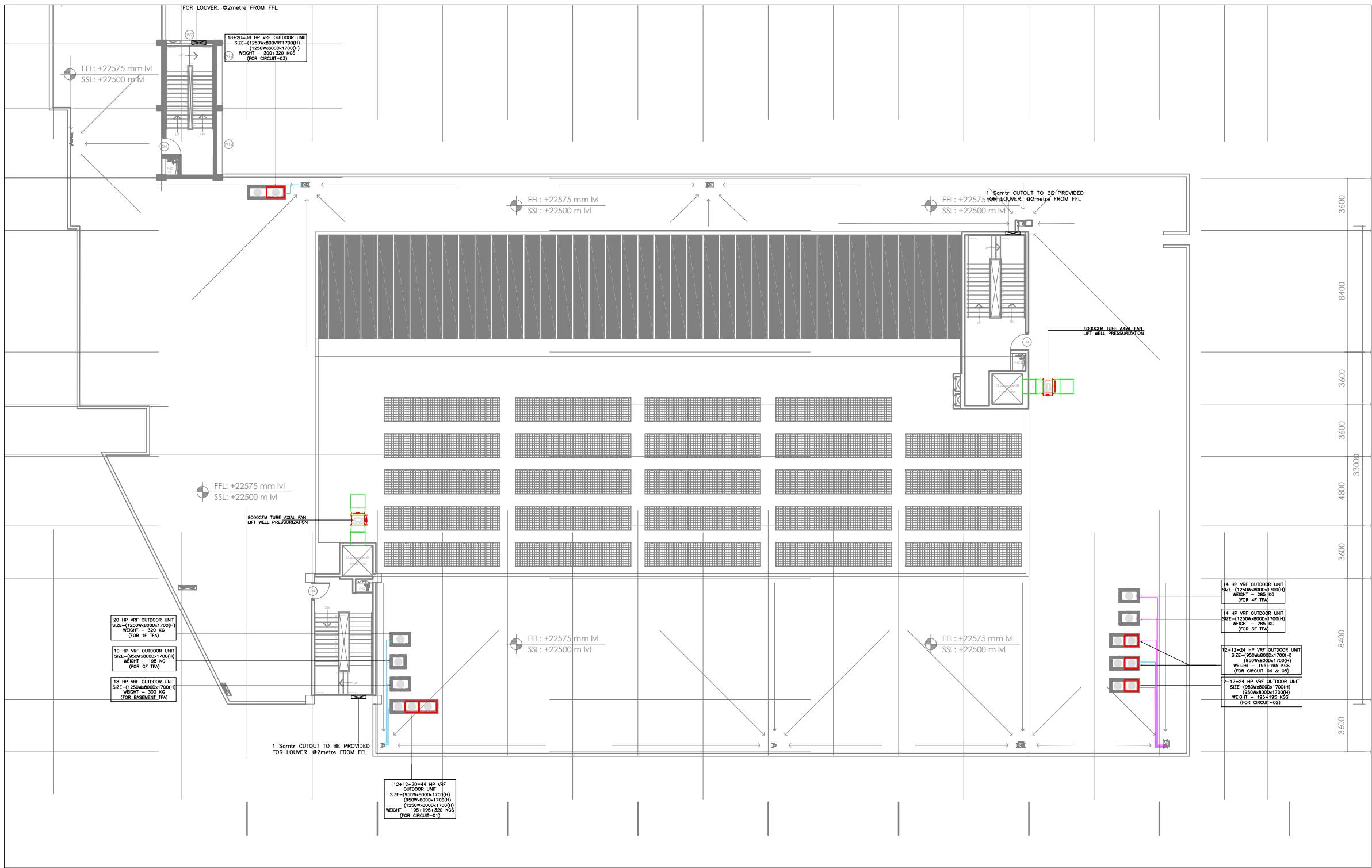
DRAWING TITLE

FOURTH FLOOR HVAC LAYOUT			
DRAWN BY	VY	DRAWING NUMBER	SCALE
CHECKED	AA	LCS-NLS-HVAC-4F-06	1:150
APPROVED	PHM	REVISION - R0	SHEET SIZE
			A1
			DATE
			07.02.2025

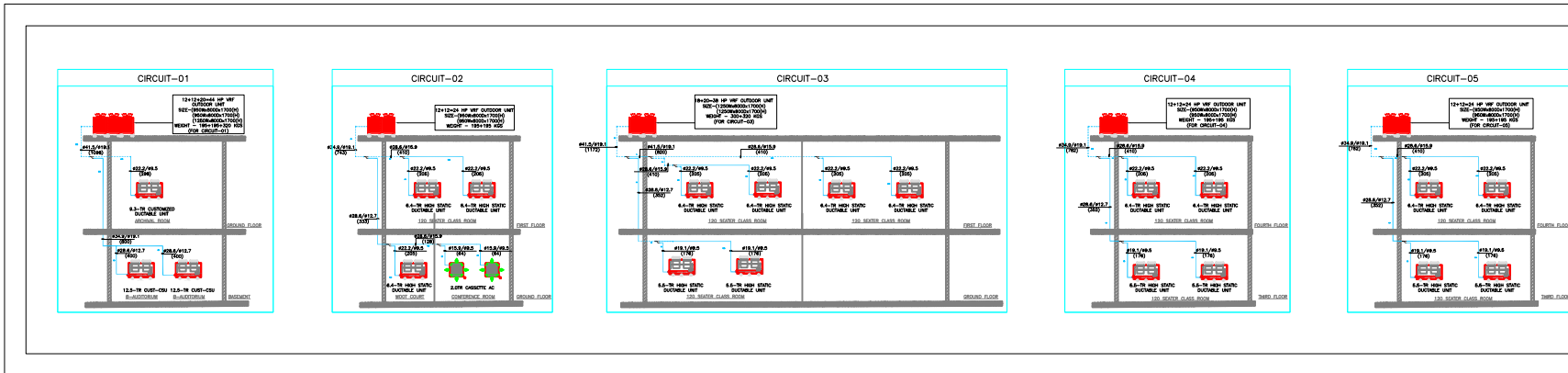
DRAWING ISSUED FOR

TENDER

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HVAC LEGEND			
	SQUARE SUPPLY AIR DUCT		CEILING SUSPENDED UNIT (CSU)
	FRESH AIR DUCT		VRF OUT DOOR UNIT
	RETURN AIR DUCT		VRF REFRIGERANT PIPES
	EXHAUST AIR DUCT		REFNET JOINT
	PANTRY EXHAUST AIR DUCT		BACK DRAFT DAMPER
	OVAl DUCT		VOLUME CONTROL DAMPER
	SUPPLY AIR ROUND DIFFUSED		MOTORIZED VOLUME CONTROL DAMPER
	RETURN AIR ROUND DIFFUSED		FUSIBLE LINK FIRE DAMPER
	SUPPLY AIR SQUARE DIFFUSED		MOTORIZED FIRE DAMPER
	RETURN AIR SQUARE DIFFUSED		TOILET EXHAUST DISC VALVE
	SUPPLY AIR GRILL		15mm DOOR UNDER CUT
	RETURN AIR GRILL		DOOR UNDER CUT LOUVER
	EXHAUST AIR GRILL		CHILLED WATER SUPPLY & RETURN PIPE
	SLOT DIFFUSER		DRAIN PIPE
	BUTTER FLY DAMPER		TRAY
	VARIABLE AIR VOLUME (VAV)		SOUND ALTERNATOR
	THERMOSTAT WALL MOUNTED		ACOUSTIC INSULATION
	THERMOSTAT CEILING MOUNTED		THERMAL INSULATION
	DUCT STATIC PRESSURE SENSOR		SPEECH PRIVACY DUCT WITH ACOUSTIC INSULATION
	ACCESS DOOR		



KEY PLAN



GEENERAL NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL AND OTHER SERVICES DRAWINGS.
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- FOLLOW WRITTEN DIMENSIONS ONLY, DO NOT SCALE THE DRAWING.

REV. NO.	REVISION DESCRIPTION	DATE
R0	ISSUED FOR TENDER	07.02.2025
R1		
R2		
R3		
R4		
R5		
R6		

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DRAWING TITLE

TERRACE FLOOR HVAC
LAYOUT

DRAWN BY	VY	DRAWING NUMBER	LCES-NLS-HVAC-TF-07	SCALE	1:150
CHECKED	AA			SHEET SIZE	A1
APPROVED	PHM	REVISION - R0		DATE	07.02.2025

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