

U N I V E R S I T Y O F
SOUTH CAROLINA

USC SOM
CRF DM SOM Clinical Education Bldg VAV Replacement
COLUMBIA, SC
H27-6094-L

A/E Project #14016.01
July 31, 2014
ISSUED FOR CONSTRUCTION

Prepared by:

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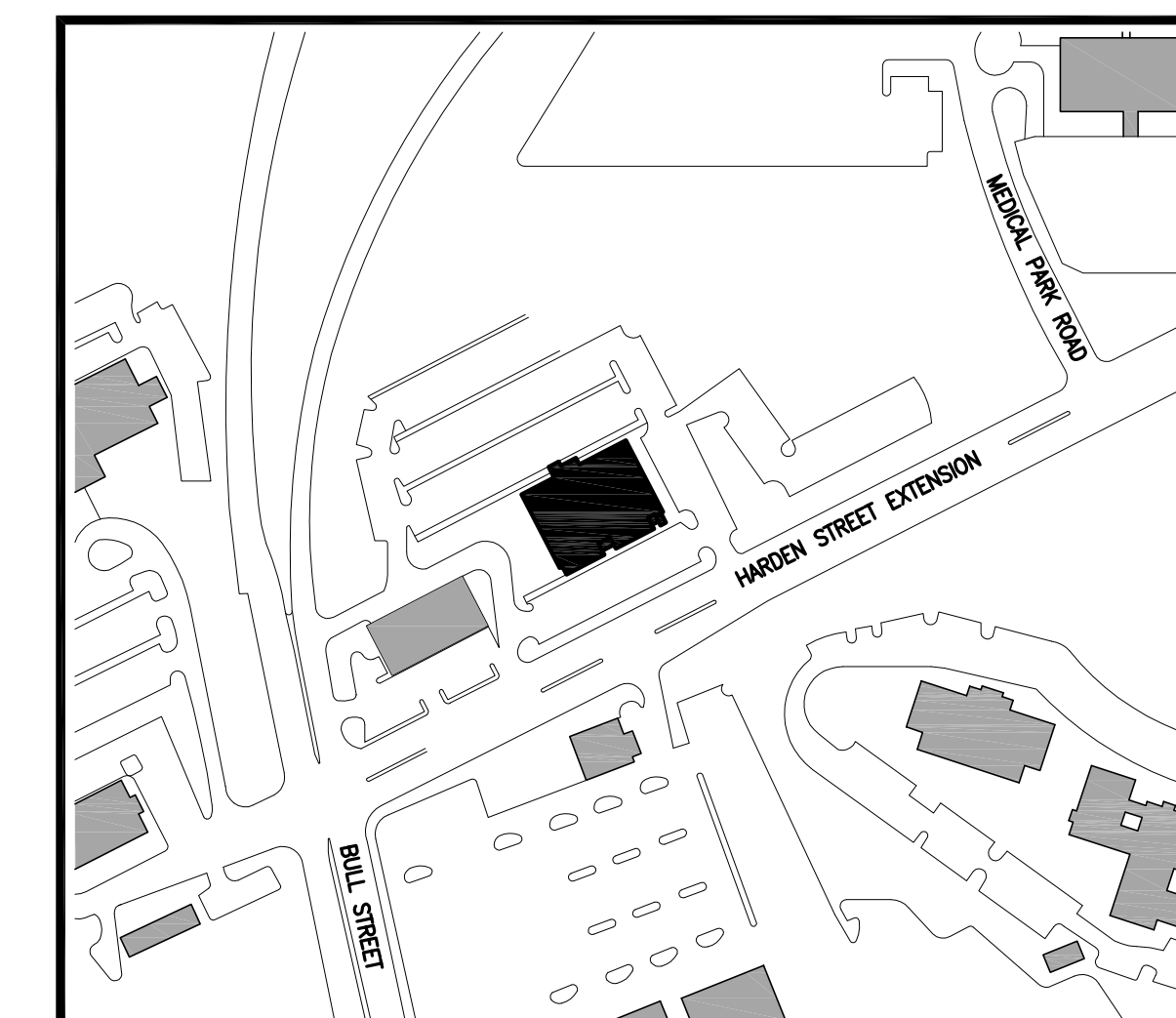
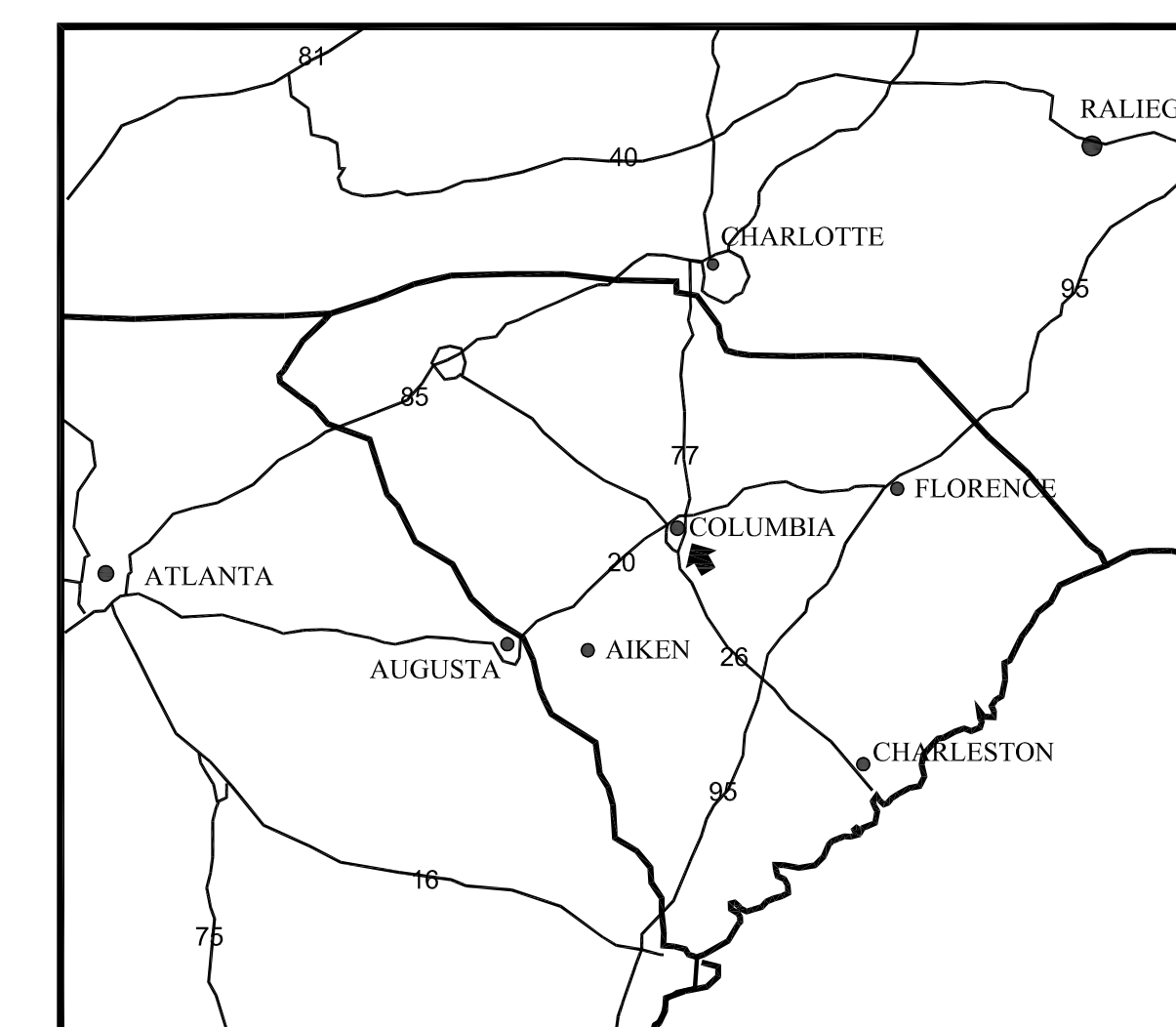
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KEY PLAN



SET NO. _____

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project name

CRF DM SOM Clinical Education Bldg
/AV Replacement
H27-6094-L
/E *project number*
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Key plan



Sheet title
FIRST FLOOR PHASING PLAN

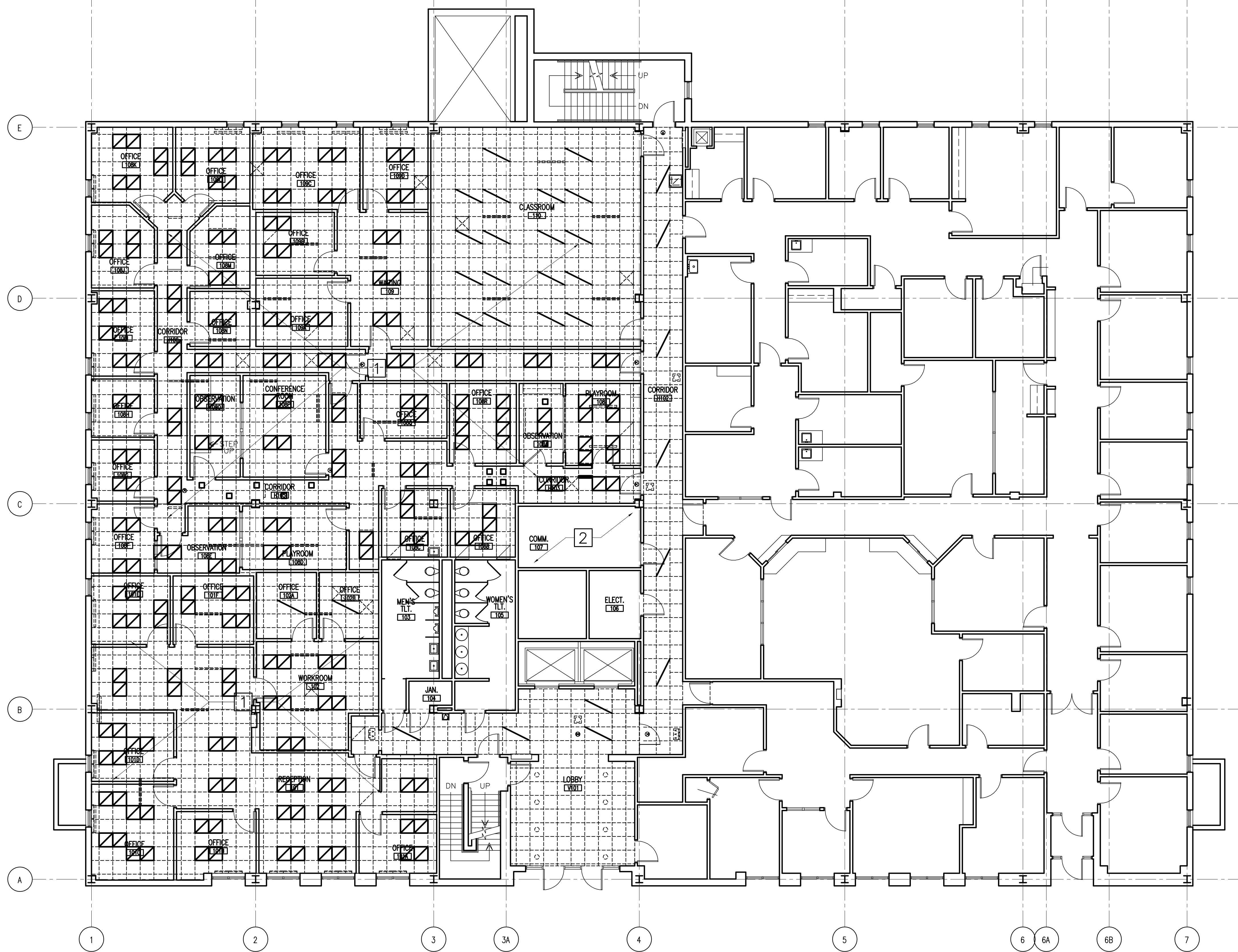
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A0.1

Drawn by **RTC**
Checked by **TMW**



1 FIRST FLOOR PHASING PLAN
1/8"=1'-0"



1 PARTIAL FIRST FLOOR CEILING DEMOLITION PLAN
1/8"=1'-0"

2 GENERAL DEMOLITION NOTES

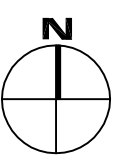
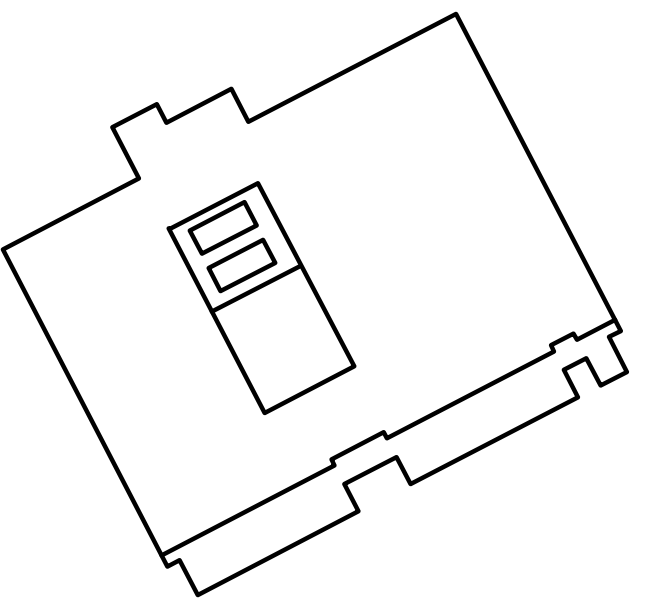
1. NOTIFY THE ARCHITECT IF DISCREPANCIES ARE DISCOVERED IN THE FIELD BETWEEN WHAT IS EXISTING AND WHAT IS SHOWN ON THE DRAWINGS. DO NOT PROCEED WITH DEMOLITION UNTIL THE DISCREPANCY IS RESOLVED BY THE ARCHITECT.
2. CONTRACTOR SHALL CLOSELY COORDINATE DEMOLITION WITH NEW CONSTRUCTION PLANS.
3. NOT ALL DEMOLITION REQUIRED BY THE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL SYSTEMS IS NECESSARILY INDICATED ON ARCHITECTURAL PLANS. COORDINATE ADDITIONAL DEMOLITION WORK ON MECHANICAL, ELECTRICAL, AND PLUMBING SHEETS.
4. WHEREVER DEMOLITION DAMAGES EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THOSE SURFACES TO THE FINISH AND QUALITY OF ADJACENT SURFACES OR THE ORIGINAL CONDITION.
5. THE CONTRACTOR SHALL TAKE ALL NECESSARY PROVISIONS TO PROTECT THE EXISTING CONSTRUCTION TO REMAIN. CONSTRUCT DUST BARRIERS AS REQUIRED TO PREVENT THE PASSAGE OF DUST INTO OCCUPIED AREAS.
6. PROTECT EXISTING SPRAYED-ON FIREPROOFING DURING DEMOLITION AND RENOVATION WORK. REPAIR ANY DAMAGED FIREPROOFING WITH LIKE MATERIAL MATCHING REQUIRED FIRE RATING, U.L. APPROVED.
7. INSTALL TEMPORARY BRACING PRIOR TO REMOVAL OF EXISTING CEILING GRID AS NECESSARY TO INSURE PLUMBNESS AND INTEGRITY OF EXISTING PARTITIONS TERMINATING AT CEILING GRID.

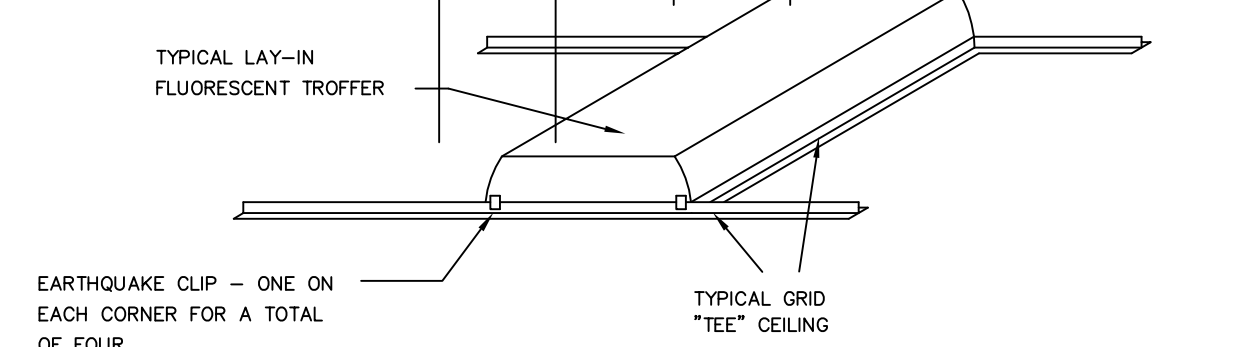
3 KEYED DEMOLITION NOTES

1. REMOVE EXISTING CEILING IN ITS ENTIRETY, INCLUSIVE OF LIGHT FIXTURES, SUPPLY AND RETURN GRILLES AND DIFFUSERS, AND ALL OTHER DEVICES ATTACHED TO CEILING GRID OR CEILING TILES. PROVIDE TEMPORARY HANGERS AS NECESSARY TO MAINTAIN INTEGRITY AND OPERATION OF DEVICES TO BE RE-INSTALLED.
2. REMOVE EXISTING GWB CEILING IN ITS ENTIRETY, INCLUSIVE OF LIGHT FIXTURES, SUPPLY AND RETURN GRILLES AND DIFFUSERS, SUPPORT FRAMING AND ALL OTHER DEVICES ATTACHED TO CEILING GRID OR CEILING TILES. PROVIDE TEMPORARY HANGERS AS NECESSARY TO MAINTAIN INTEGRITY AND OPERATION OF DEVICES TO BE RE-INSTALLED.

----- DASHED LINES INDICATE WORK
TO BE DEMOLISHED.

number	item	date





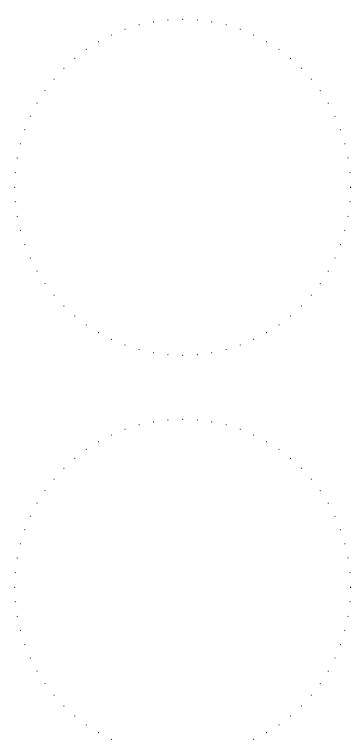
4 SEISMIC CEILING DETAILS



University of South Carolina
School of Medicine

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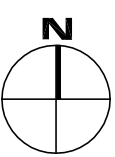
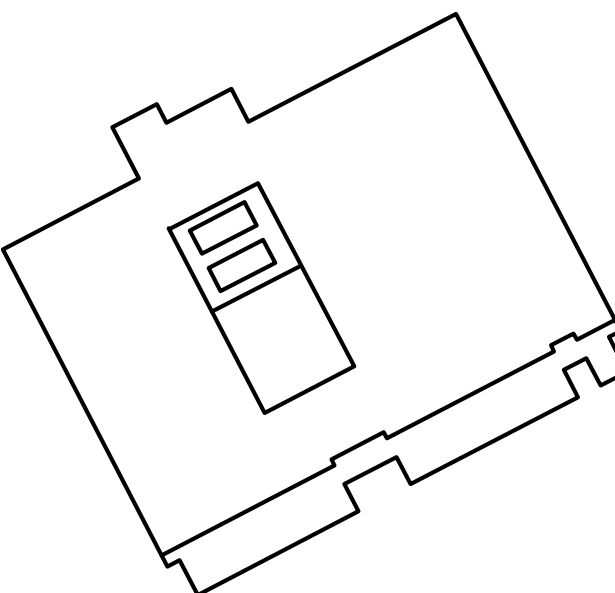


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key plan

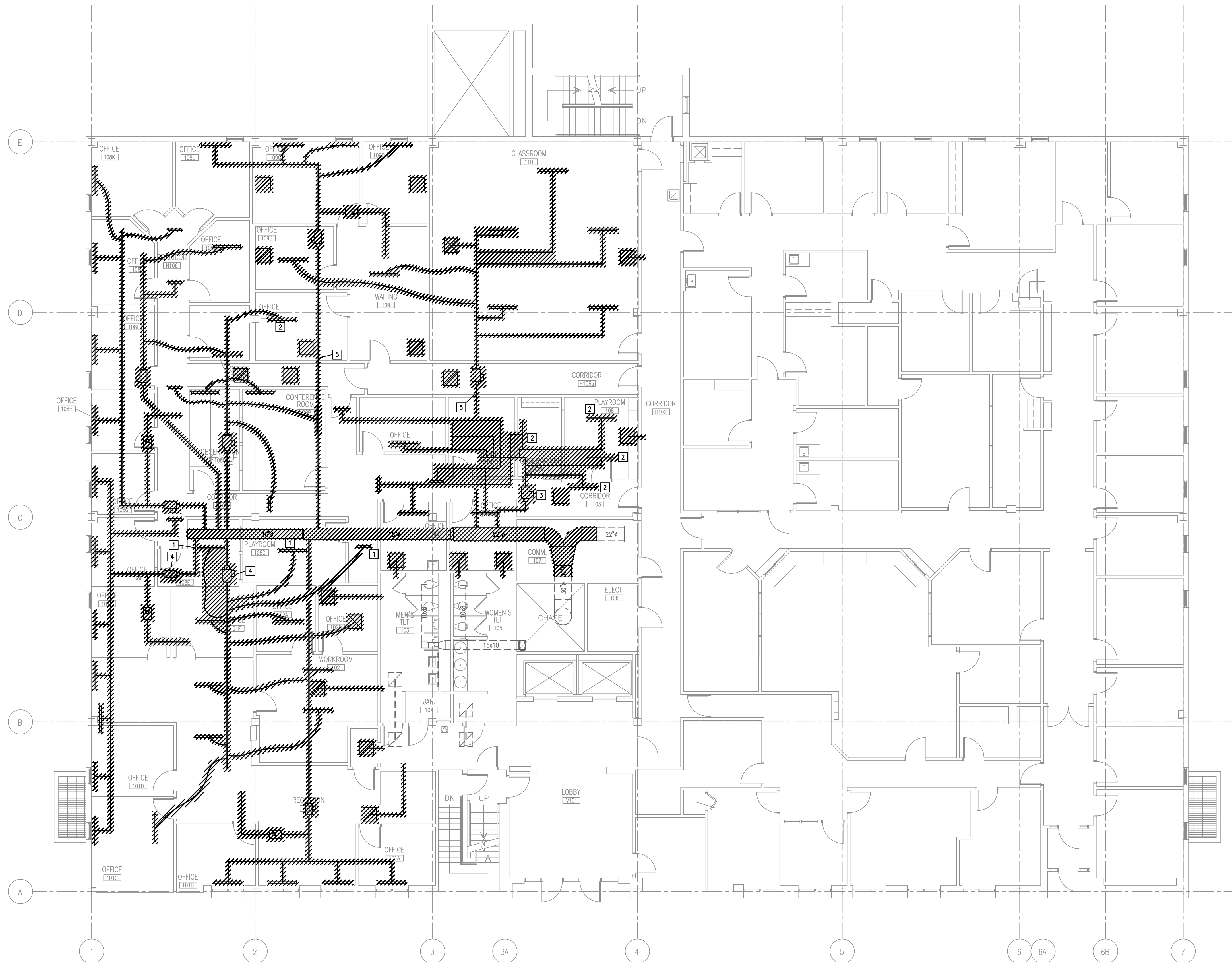


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PARTIAL FIRST FLOOR PLAN -
HVAC DEMOLITION PLAN

sheet number

M1.1

drawn by JDR
checked by JWB

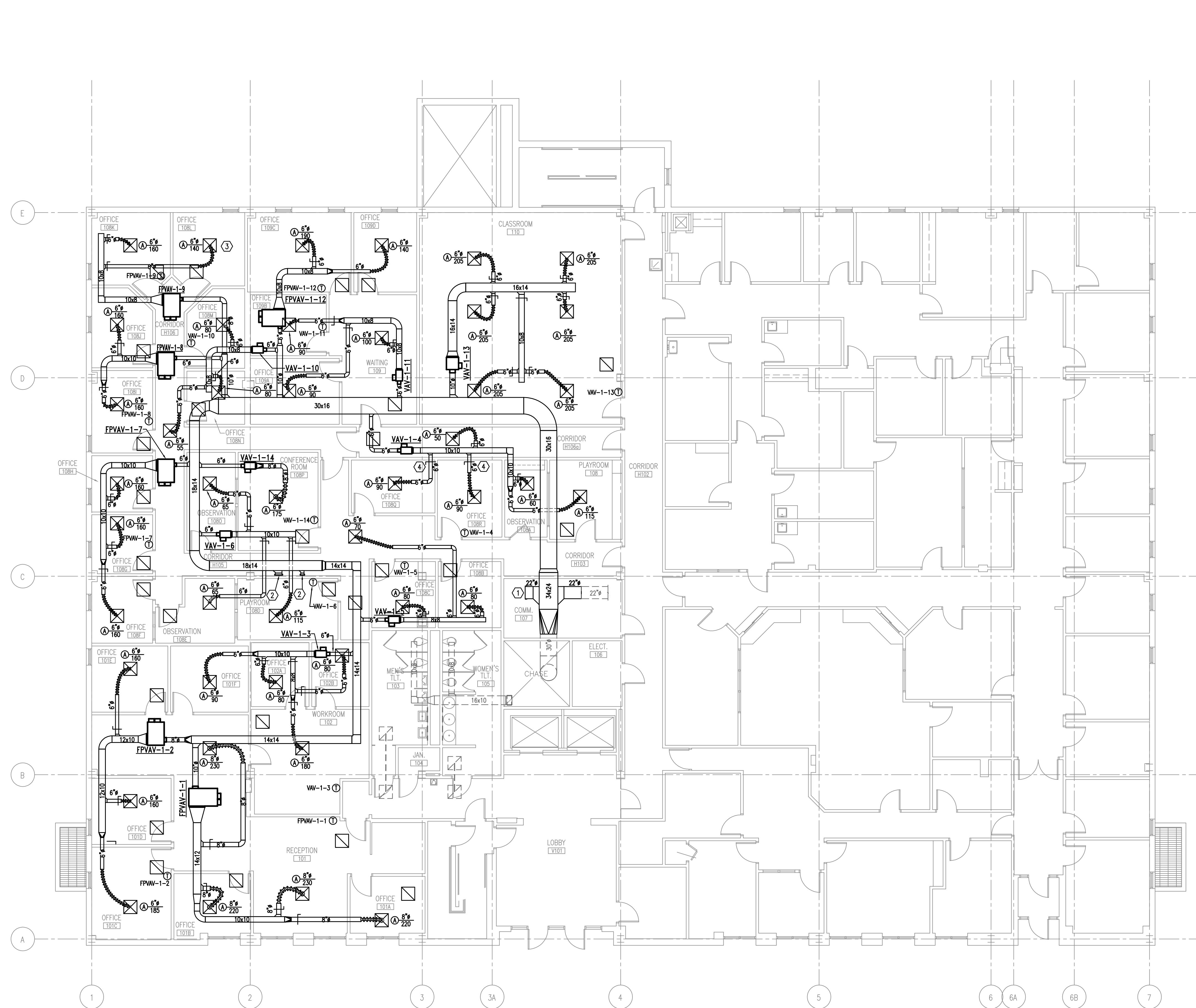
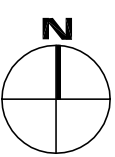
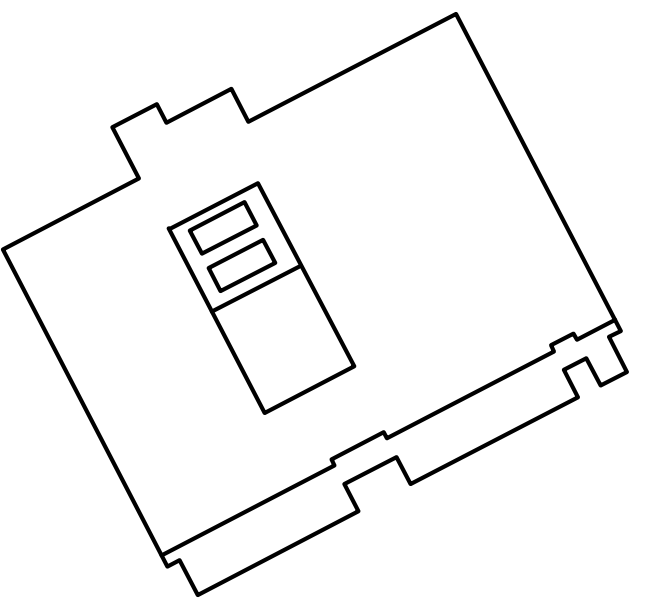


- DEMOLITION NOTES:
- 1 REMOVE GRILLE AND FLEX BACK TO DUCT MAIN PATCH DUCT IN PHASE 2 OF CONSTRUCTION. CAP AND INSULATE EXISTING TAKE-OFF AT DUCT MAIN.
 - 2 REMOVE GRILLE AND FLEX BACK TO DUCT MAIN PATCH DUCT IN PHASE 1 OF CONSTRUCTION. CAP AND INSULATE EXISTING TAKE-OFF AT DUCT MAIN.
 - 3 EXISTING VAV BOX SHALL REMAIN IN OPERATION UNTIL PHASE 3 OF CONSTRUCTION. DEMOLISH VAV BOX AND REMAIN DUCTWORK IN PHASE 3.
 - 4 REMOVE EXISTING VAV BOXES IN PHASE 4 OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE OWNER WHEN TO REMOVE EXISTING VAV BOXES.
 - 5 REMOVE EXISTING DUCT UP TO PHASE BOUNDARY AND CAP. CONTINUE REMOVAL OF EXISTING DUCT IN THE CORRESPONDING PHASE.


DRAWING IS INTENDED TO SHOW EXTENT OF DEMOLITION REQUIRED. EXISTING AIR DISTRIBUTION SYSTEM SHALL REMAIN IN OPERATION. CONTRACTOR SHALL DEMOLISH EXISTING AIR DISTRIBUTION SYSTEM IN EACH PHASE. SEE PHASING DRAWINGS FOR ADDITIONAL INFORMATION.

1 FIRST FLOOR HVAC DEMOLITION PLAN
1/8"=1'-0"

number	item	date



GENERAL NOTES:

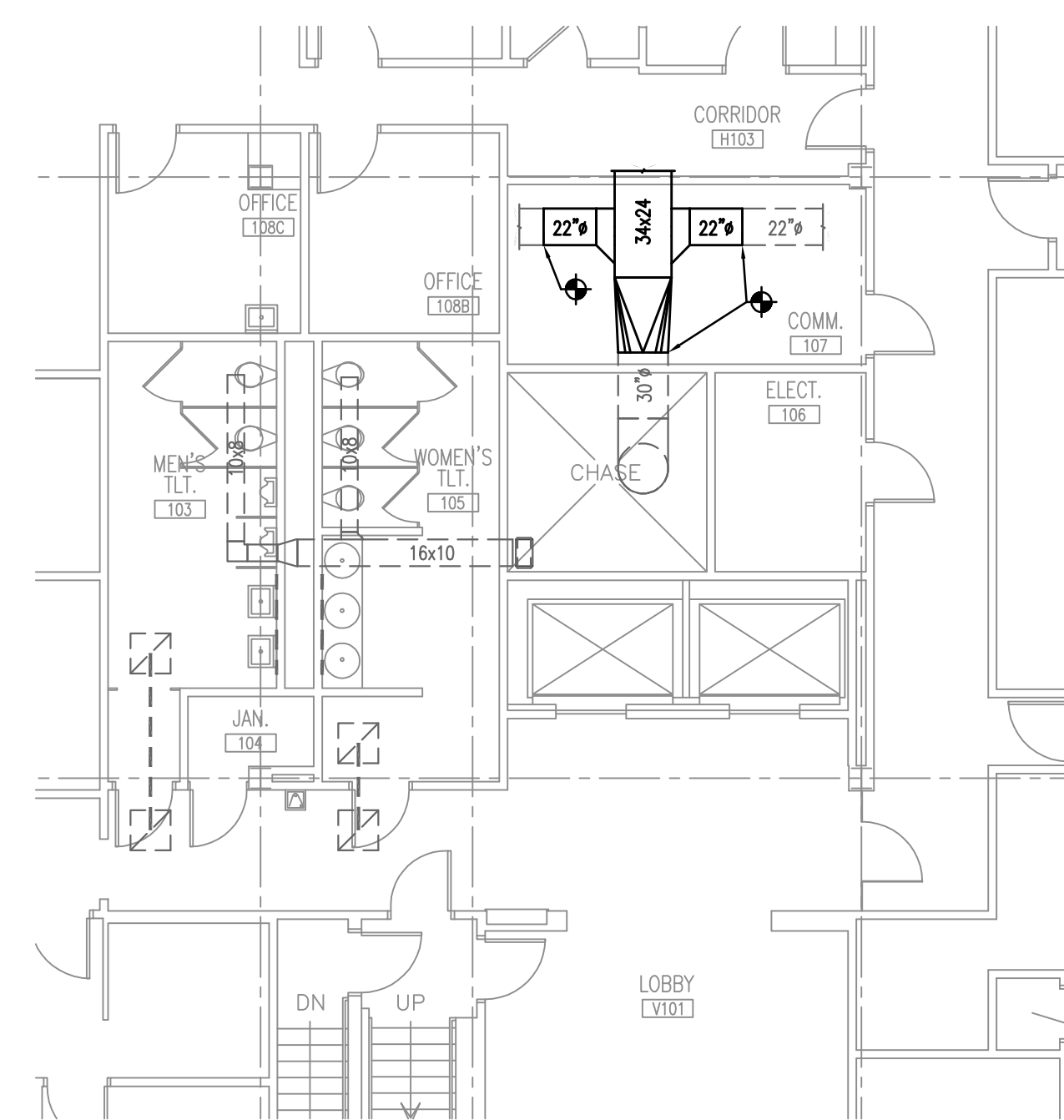
- ALL RETURN GRILLES SHALL BE  UNLESS NOTED OTHERWISE. RETURN GRILLES SHALL HAVE RETURN GRILLE BOOTS AS SPECIFIED ON THE DETAIL ON SHEET M2.1.
- CONTRACTOR SHALL TEST AND BALANCE NEW VAV BOXES IN EACH PHASE OF CONSTRUCTION.
- CONTRACTOR SHALL DEMOLISH AND INSTALL NEW DUCTWORK, BOXES, AND CONTROLS PER PHASING PLAN. SEE ARCHITECTURAL DRAWINGS FOR PHASING PLANS.

MECHANICAL KEYNOTES:

- CONTRACTOR SHALL CAP EXISTING DUCT MAIN AND INSULATE AT THIS LOCATION AFTER PHASING IS COMPLETE.
- CAP DUCT IN PHASE 4 OF CONSTRUCTION. SEE PHASING 2 PLAN FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL PROVIDE SPOT COOLER IN OFFICE 108L DURING PHASE 1 OF CONSTRUCTION.
- TEMPORARY CAP NEW DUCT DURING PHASE 1 OF CONSTRUCTION. REMOVE CAP AND CONNECT NEW GRILLES IN PHASE 3 OF CONSTRUCTION. REBALANCE BOX TO FINAL CFM DURING PHASE 3 OF CONSTRUCTION.

1 FIRST FLOOR - HVAC RENOVATION PLAN
1/8"=1'-0"

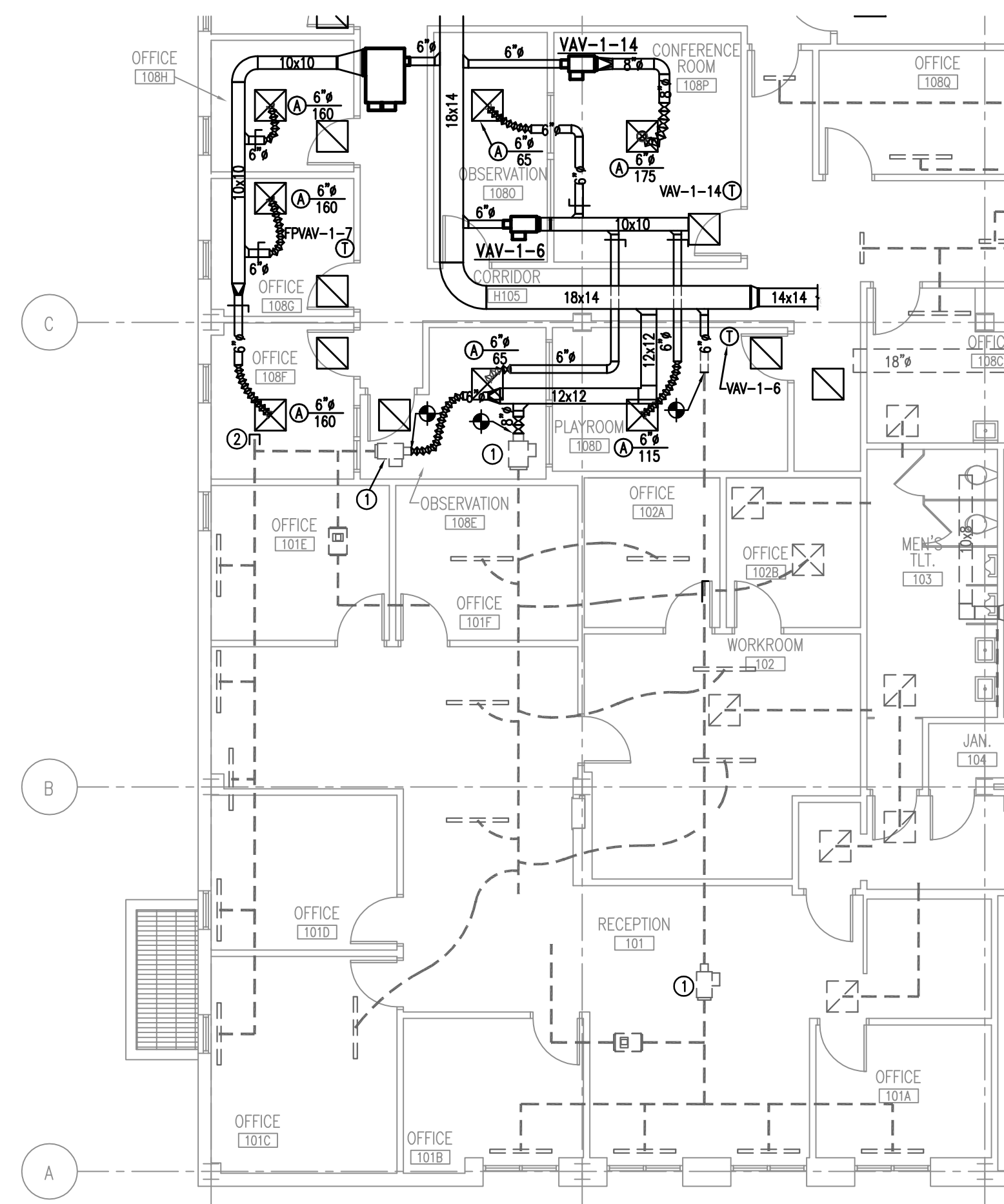
DRAWING IS INTENDED TO SHOW EXTENT OF RENOVATION REQUIRED. EXISTING AIR DISTRIBUTION SYSTEM SHALL REMAIN IN OPERATION. SEE PHASING DRAWINGS FOR ADDITIONAL INFORMATION.



PHASING NOTE:

EXISTING DUCT DISTRIBUTION SYSTEM SHALL REMAIN IN OPERATION AND REMOVED AS EACH PHASE IS COMPLETED. REFER TO PHASING DRAWINGS FOR ORDER OF PHASING SO EXISTING AIR DISTRIBUTION SYSTEM CAN REMAIN IN OPERATION. CONTRACTOR SHALL REMOVE EXISTING DUCT AS REQUIRED TO INSTALL NEW DUCTWORK AS INDICATED ABOVE. THIS WORK SHALL OCCUR WHEN BUILDING IS UNOCCUPIED.

2 EXISTING DUCT TIE-IN ON FIRST FLOOR
1/8"=1'-0"



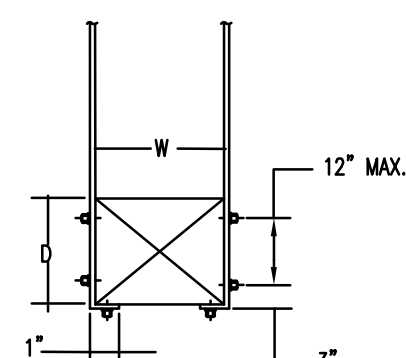
PHASING NOTES:

- TEMPORARY CONNECT EXISTING VAV BOXES SERVING PHASE 4 DURING PHASE 2 OF CONSTRUCTION TO DEMOLISH EXISTING DUCT MAIN.
- CAP EXISTING LOW PRESSURE DUCT IN PHASE 2 AT LOCATION SPECIFIED.

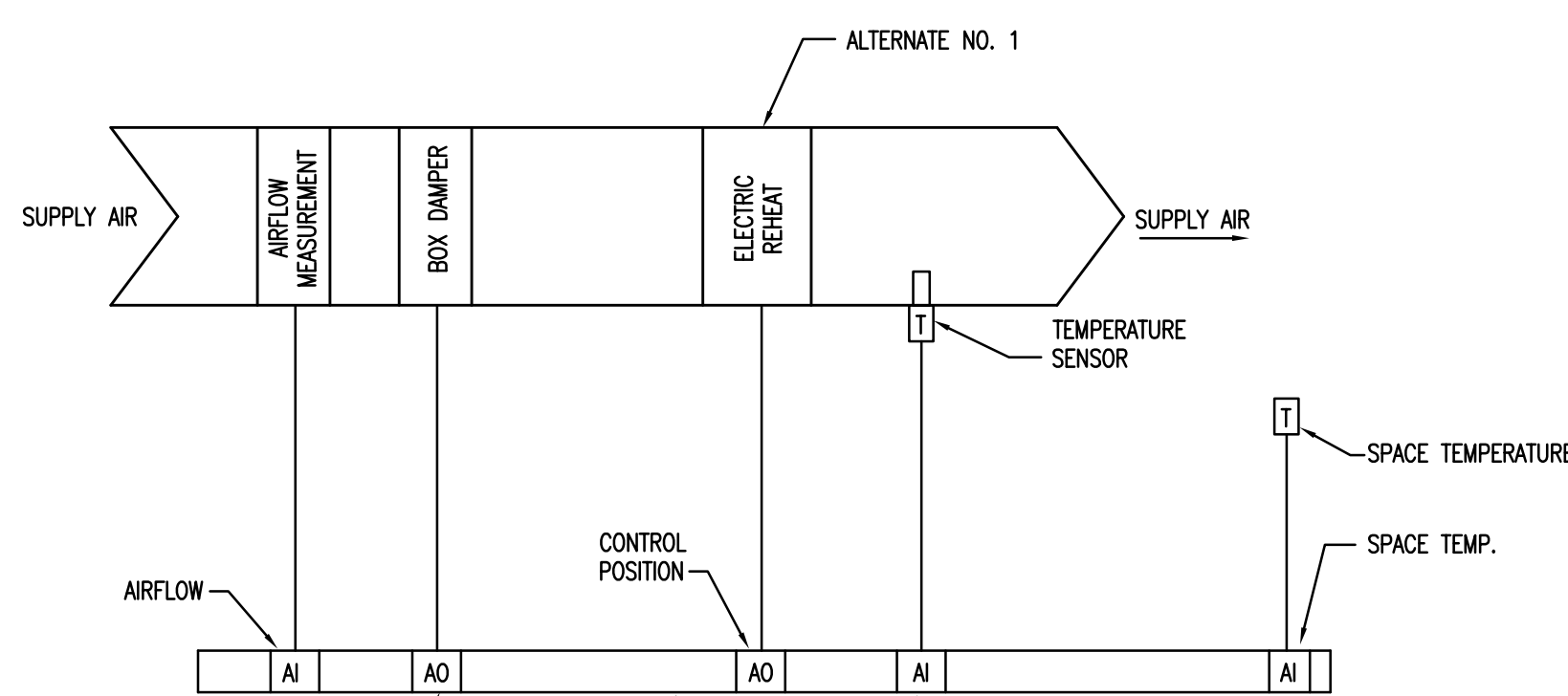
3 TEMPORARY VAV BOX CONNECTIONS - PHASE 2
1/8"=1'-0"

NOTES:

1. PROVIDE MIN OF 3 DUCT DIAMETERS BETWEEN TAPS OR AFTER ELBOWS.

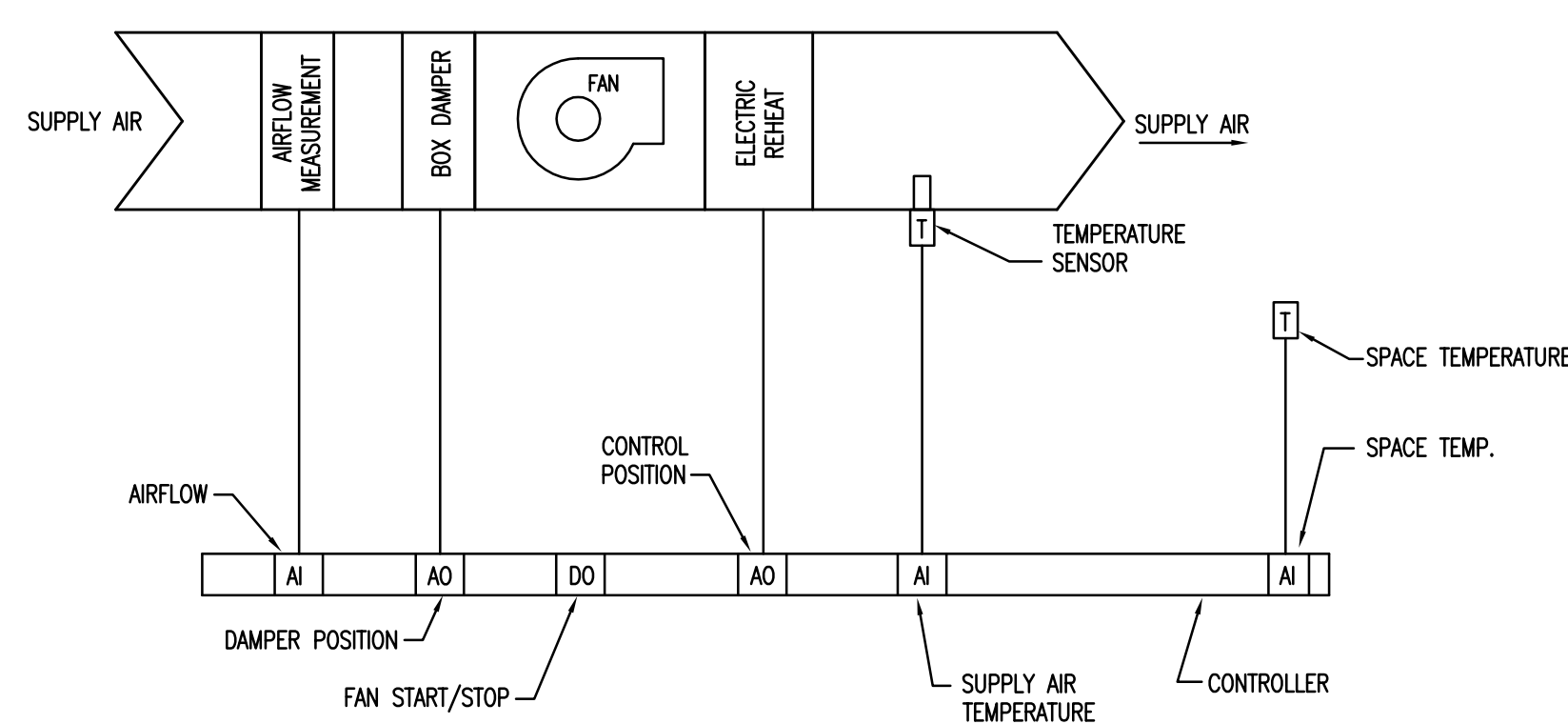


W + D MAX.	10'-0" MAX.	8'-0" MAX.	5'-0" OR LESS
72"	1" x 226a.	1" x 226a.	1" x 226a.
96"	—	1" x 206a.	1" x 226a.
120"	—	1" x 186a.	1" x 226a.
168"	—	—	1" x 186a.
192"	—	—	1" x 166a.



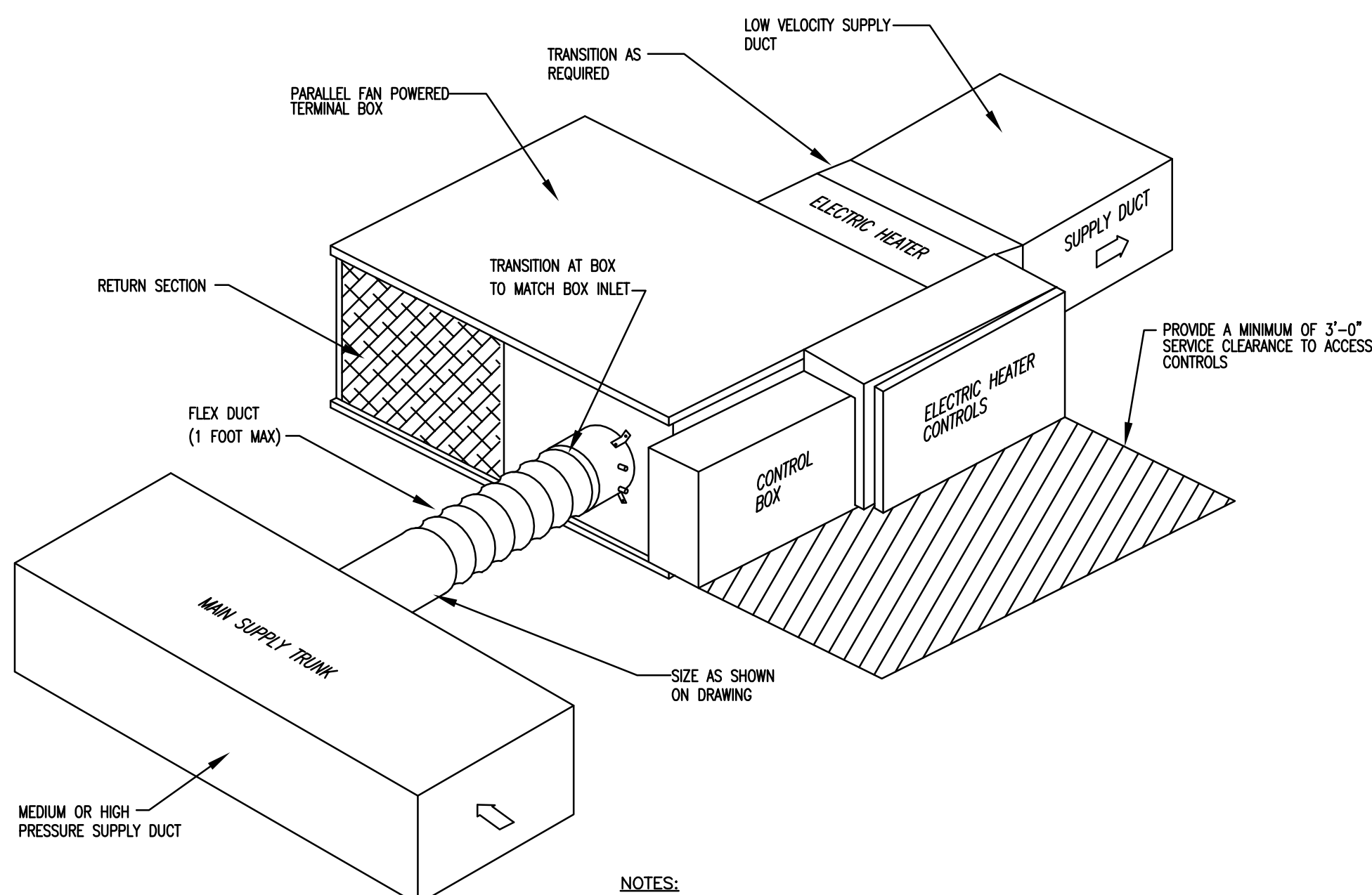
NOTES:

1. TYPICAL FOR ALL VAV BOXES



NOTES:

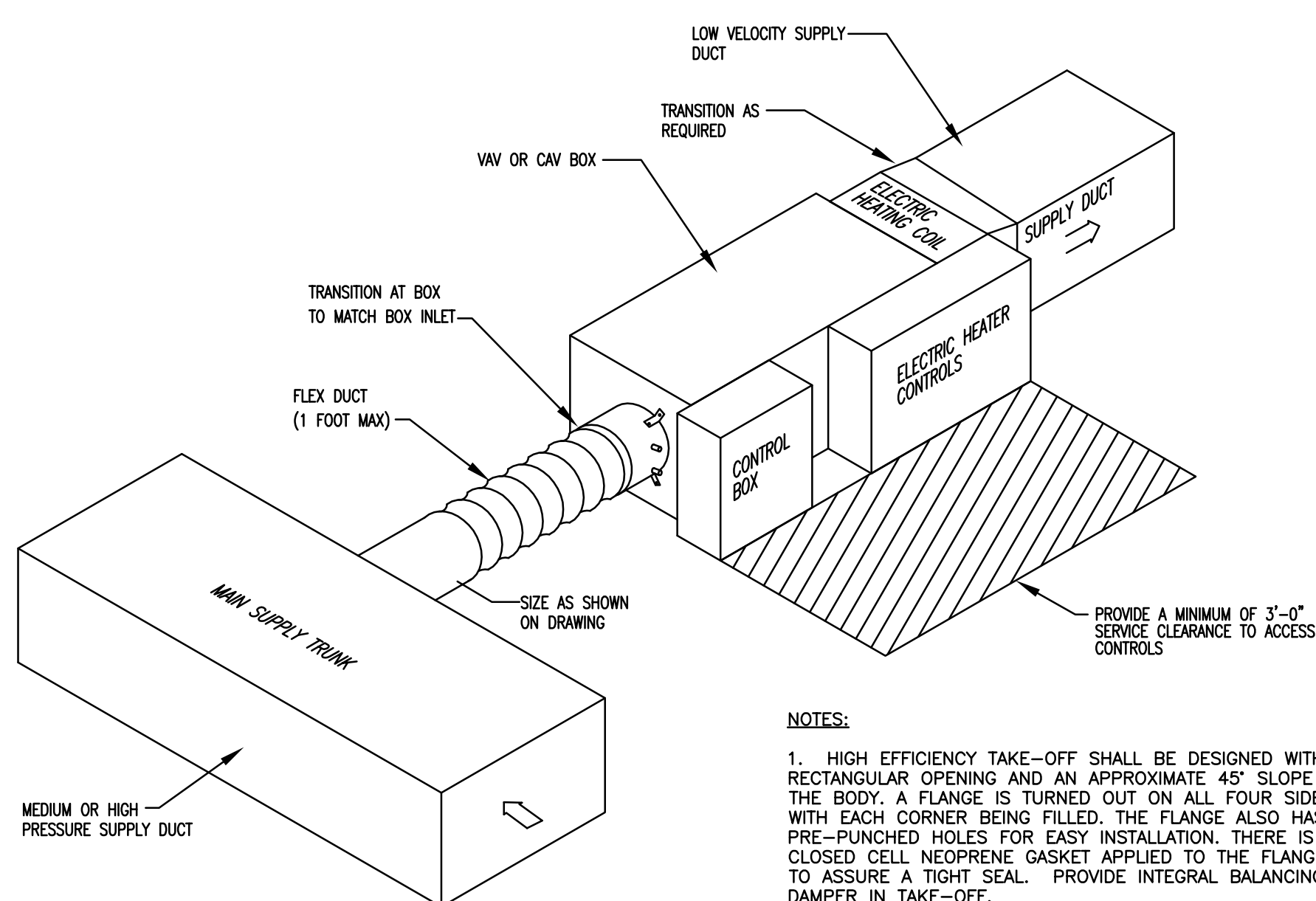
1. TYPICAL FOR ALL FPVAV BOXES



NOTES:

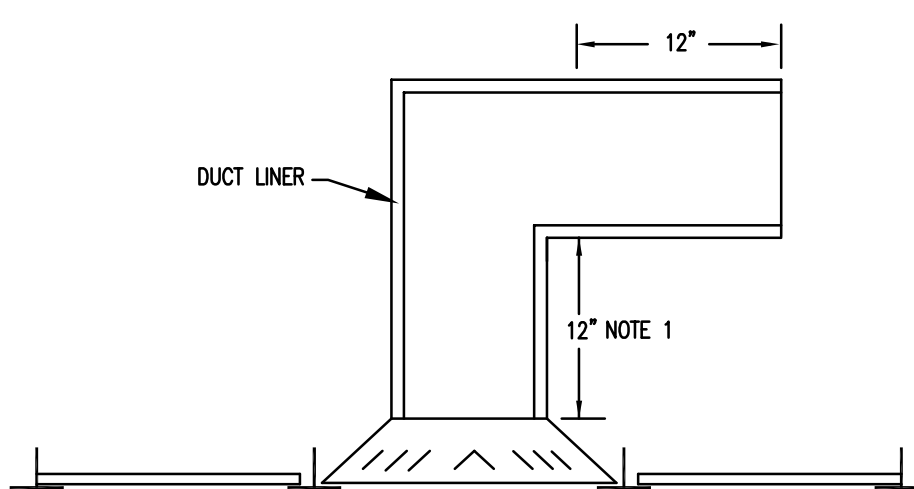
1. HIGH EFFICIENCY TAKE-OFF SHALL BE DESIGNED WITH A RECTANGULAR OPENING AND AN APPROXIMATE 45° SLOPE ON THE BODY. A FLANGE IS TURNED OUT ON ALL FOUR SIDES WITH EACH CORNER BEING FILLED. THE FLANGE ALSO HAS PRE-PUNCHED HOLES FOR EASY INSTALLATION. THERE IS A CLOSED CELL NEOPRENE GASKET APPLIED TO THE FLANGE TO ASSURE A TIGHT SEAL. PROVIDE INTEGRAL BALANCING DAMPER IN TAKE-OFF.

2. PROVIDE MIN OF 3 DUCT DIAMETERS BETWEEN TAPS OR AFTER ELBOWS.



NOTES:

1. HIGH EFFICIENCY TAKE-OFF SHALL BE DESIGNED WITH A RECTANGULAR OPENING AND AN APPROXIMATE 45° SLOPE ON THE BODY. A FLANGE IS TURNED OUT ON ALL FOUR SIDES WITH EACH CORNER BEING FILLED. THE FLANGE ALSO HAS PRE-PUNCHED HOLES FOR EASY INSTALLATION. THERE IS A CLOSED CELL NEOPRENE GASKET APPLIED TO THE FLANGE TO ASSURE A TIGHT SEAL. PROVIDE INTEGRAL BALANCING DAMPER IN TAKE-OFF.
2. PROVIDE MIN OF 3 DUCT DIAMETERS BETWEEN TAPS OR AFTER ELBOWS.



NOTE:

1. WHERE SPACE DOES NOT PERMIT, 12" DIMENSION SHALL BE REDUCED TO MAXIMUM PRACTICAL SIZE.
2. DO NOT PROVIDE TURNING VANES.

TAG NO.	MAXIMUM BOX CFM	MINIMUM BOX CFM	MIN. INLET S.P. (W.C.)	ELECTRIC HEAT		PRIMARY N.C. Ø 1.0" SP DISCH/IN/D.	INLET SIZE (INCHES)	ELECTRICAL (VOLTS/PHASE)	MANUFACTURER	MODEL NO.	NOTE
				KW	STEPS						
WM-1-3	430	150	1.0	--	--	-----	6	120/1	TRANE	VCZF	1.2
WM-1-4	405	120	1.0	--	--	-----	6	120/1	TRANE	VCZF	1.2
WM-1-5	230	70	1.0	--	--	-----	6	120/1	TRANE	VCZF	1.2
WM-1-6	420	125	1.0	--	--	-----	6	120/1	TRANE	VCZF	1.2
WM-1-10	215	65	1.0	--	--	-----	6	120/1	TRANE	VCZF	1.2
WM-1-11	280	85	1.0	--	--	-----	6	120/1	TRANE	VCZF	1.2
WM-1-13	1230	370	1.0	--	--	-----	10	120/1	TRANE	VCZF	1.2
WM-1-14	175	150	1.0	--	--	-----	6	120/1	TRANE	VCZF	1.2

1. ELECTRIC ACTUATOR

2. CONTROL POWER TRANSFORMER

3. SOUND ATTENUATOR

4. SINGLE POINT POWER CONNECTION WITH DISCONNECT

5. ACCESS PANEL

TAG NO.	MINIMUM BOX CFM	MINIMUM BOX CFM	MIN. INLET S.P. (W.C.)	ELECTRIC HEAT		PRIMARY NC Ø 1.0" SP DISCH/RND.	INLET SIZE (INCHES)	ELECTRICAL (VOLTS/PHASE)	MANUFACTURER	MODEL NO.	NOTE
				KW	STEPS						
WW-1-3	430	180	1.0	2.0	2	----	6	120/1	TRANE	KCF	1.2
WW-1-4	405	150	1.0	1.5	2	----	6	120/1	TRANE	KCF	1.2
WW-1-5	230	150	1.0	1.5	2	----	6	120/1	TRANE	KCF	1.2
WW-1-6	400	150	1.0	1.5	2	----	6	120/1	TRANE	KCF	1.2
WW-1-10	215	150	1.0	1.5	2	----	6	120/1	TRANE	KCF	1.2
WW-1-11	280	150	1.0	1.5	2	----	6	120/1	TRANE	KCF	1.2
WW-1-13	1230	370	1.0	4.5	3	----	10	208/3	TRANE	KCF	1.2
WW-1-14	175	150	1.0	1.5	2	----	6	120/1	TRANE	KCF	1.2

1. ELECTRIC ACTUATOR

2. CONTROL POWER TRANSFORMER

3. SOUND ATTENUATOR

4. SINGLE POINT POWER CONNECTION WITH DISCONNECT

5. ACCESS PANEL

TAG NO.	MAXIMUM BOX CFM	HEATING VALVE CFM	MIN. INLET S.P. (W.C.)	FAN			ELECTRIC HEAT		INLET SIZE (INCHES)	ELECTRICAL (VOLTS/PHASE)	MANUFACTURER	MODEL NO.	NOTE
				CFM	ESP	HP	KW	STEPS					
FWHM-1-1	800	270	1.0	630	0.5	1	7.5	2	10	277/1	TRANE	VFF	1,2,4,5,6
FWHM-1-2	395	180	1.0	415	0.5	1/3	5.0	2	8	277/1	TRANE	VFF	1,2,4,5,6
FWHM-1-7	480	145	1.0	335	0.5	1/3	4.0	2	6	277/1	TRANE	VFF	1,2,4,5,6
FWHM-1-8	320	95	1.0	225	0.5	1/3	2.5	2	6	277/1	TRANE	VFF	1,2,4,5,6
FWHM-1-9	300	90	1.0	210	0.5	1/3	2.5	2	6	277/1	TRANE	VFF	1,2,4,5,6
FWHM-1-12	330	100	1.0	230	0.5	1/3	3.0	2	6	277/1	TRANE	VFF	1,2,4,5,6

1. ELECTRIC ACTUATOR

2. CONTROL POWER TRANSFORMER

3. SOUND ATTENUATOR

4. SINGLE POINT POWER CONNECTION WITH DISCONNECT

5. ACCESS PANEL

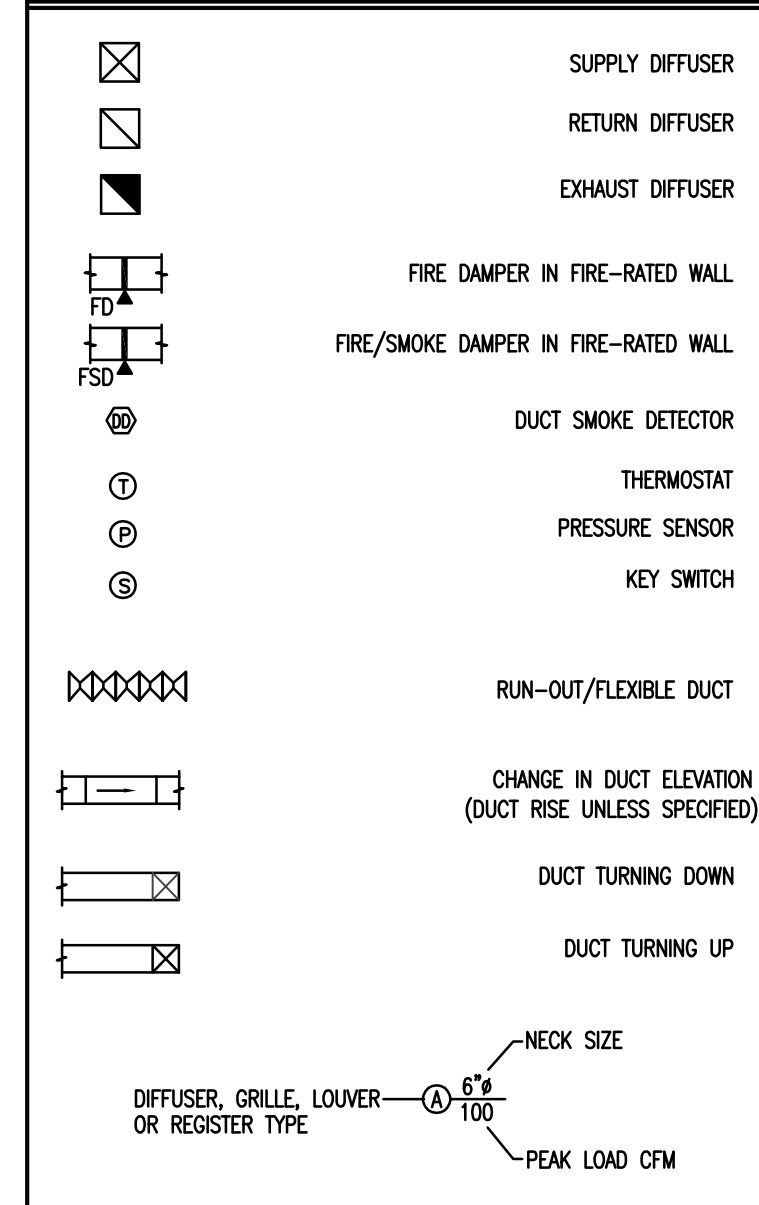
6. ECM MOTOR

1. DRAWINGS SHOW GENERAL INTENT OF DEMOLITION, QUANTITIES, LOCATIONS, SIZES AND EQUIPMENT ARE SHOWN TO INDICATE TYPE OF SYSTEM INSTALLED AND DOES NOT REPRESENT EXACT CONDITIONS. CONTRACTOR SHALL FIELD VERIFY BEFORE BIDDING.
2. DEMOLITION OF EQUIPMENT, SYSTEMS, AND COMPONENTS SHALL INCLUDE ALL SUPPORTS, PIPES, HANGERS, INSULATION, CONTROLS, STARTERS, ACCESSORIES, AND APPURTENANCES NOT REQUIRED FOR THE INSTALLATION OF THE NEW SYSTEM.

WHEN PARTIAL DEMOLITION OF A SYSTEM IS INDICATED, THE PART OF THE SYSTEM TO BE REMOVED SHALL BE IDENTIFIED BY THE ACTIVE MAIN OR BRANCH IF NOT REQUIRED FOR THE INSTALLATION OF THE NEW SYSTEM. THE ACTIVE MAIN OR BRANCH SHALL BE REQUIRED TO MATCH NEW INSTALLATION AS MUCH AS PRACTICAL. SUPPORTS, INSULATION, INSULATION PIPES, AND FINISHED RAMP (FOR WARP BARBER, COATING, ETC.) SHALL BE PATCHED AND FINISHED RAMP SHALL BE PATCHED.
4. PATCHING OF BUILDING STRUCTURES AND FINISHES SHALL PATCHES TO ALL WALLS, FLOORS, SLABS, ROOFS, STRUCTURES, AND FINISHES. PATCHES SHALL MATCH EXISTING INSIDE, INSIDE, FIRE RATING AND FINISHES.
5. ALL OPENINGS CREATED BY THE ABANDONMENT OR REMOVAL OF EXISTING SYSTEMS SHALL BE PATCHED.
6. ALL WALLS, ROOFS, SLABS, STRUCTURES, AND FINISHES WHATEVER FINISH IS IRREGULAR DUE TO THE REMOVAL OF SYSTEMS, SUPPORTS, PIPES, ACCESSORIES, AND APPURTENANCES SHALL BE PATCHED.
7. ALL FINISHES SHALL MATCH EXISTING FINISH. WHEN FINISH GROSSNESS DOES NOT MATCH EXISTING FINISH SUCH AS FINISH, AREA OF FINISH, ETC., THE FINISH SHALL BE APPLIED TO THE PATCH AND THE SURFACE IN ALL DIRECTIONS UNTIL A SURFACE CHANGE OF A MINIMUM OF 45 DEGREES.
8. REMOVAL OF SYSTEMS SHALL INCLUDE COMPLETE SYSTEM WHENEVER PRACTICAL. IF NOT, SYSTEM (IE: PIPE, CONDUIT, ETC.) SHALL BE REMOVED TO 10" BELOW SURFACE.

1. DO NOT SCALE DRAWINGS: SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF GROUTS, WINDOWS, CEILING, DIFFUSERS, ETC.
2. ALL DUCTWORK INSULATION SHALL BE RUN CONTINUOUSLY THROUGH FLOORS, ROOFS AND PARTITIONS EXCEPT WHERE PROHIBITED BY FIRE CODES.
3. LOCATE ALL THERMOSTATS AT $\geq 48"$ ABOVE FINISH FLOOR; ALIGN WITH LIGHT SWITCHES.
4. ALL DUCTWORK LOCATIONS SHALL BE COORDINATED WITH THE WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE.
5. CORRECT SITUATION ON ALL BALANCING FITTINGS SHALL BE PERMANENTLY MARKED.
6. AIR DISTRIBUTION SYSTEMS WITH MORE THAN ONE BRANCH, OR MULTIPLE TURNS ON A BRANCH, SHALL HAVE VOLUME DAMPERS TO BALANCE AIR FLOWS: SPIN-IN FITTINGS ARE PERMITTED FOR CONNECTING FLEX DUCT TO BRANCH OR TRUNK DUCTS WHERE FLEX DUCTS ARE INDICATED; IF FLEX DUCT CANNOT BE CONNECTED WITH A SPIN-IN, A HARD DUCT TAKEOFF MUST BE PROVIDED.
7. HIGH EFFICIENCY TAKEOFFS SHALL BE USED ON ALL HARD DUCT SUPPLY BRANCHES.
8. PROVIDE ALL TRANSITIONS REQUIRED FOR INSTALLATION OF DUCT, EXHAUST FANS, AND ALL OTHER EQUIPMENT AND APPURTENANCES.
9. ALL DUCT IS GALVANIZED SHEET METAL, EXCEPT AS NOTED.
10. DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
11. AIR DISTRIBUTION UNITS SHALL HAVE TUNE TRIM REQUIRED FOR FINISHED SPACE.

A/C	Air Conditioning	N/A	Not Applicable
ABV	Above	NIC	Not in Contract
AF	After Finished Floor	NTS	Not To Scale
BHP	Brake Horsepower	OSD	Outside Dimple Dome
CBM	Cubic Feet Per Minute	OD	Outside Dome
CD	Circle Swivel Connector	OP	Oppress Drop
DB	Dry Bulb Temperature	RA	Return Air
DEC	Entering Air Temperature	RET	Return Humidity
EE	Electric or Electrical	RH	Relative Humidity
EWB	Entering Air Wet Bulb	SA	Supply Air
EXH	Exhaust	SH	Shed
FD	Fire Damper	SP	Static Pressure
FL	Floor	SPEC	Specifications
HP	Horsepower	TPL	Temperature
LAT	Leaving Air Temperature	TH	Thermostat
LWB	Leaving Air Wet Bulb	TEMP	Temperature
MAX	Maximum	TSTAT	Thermostat
MB	Measuring	TR	Typical
THW	Thousand BTU/hr (thousands)	WB	Wet Bulb Temperature



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consultants

owner



University of South Carolina
School of Medicine

project name

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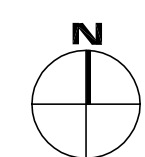
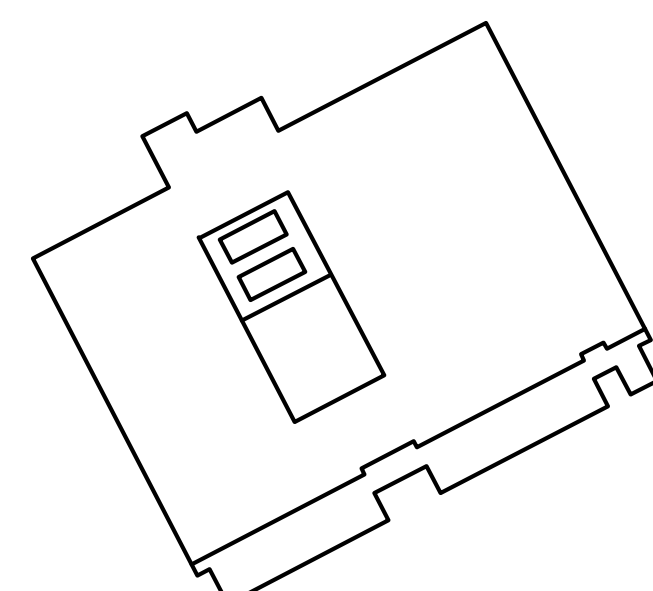
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[illegible]

key plan

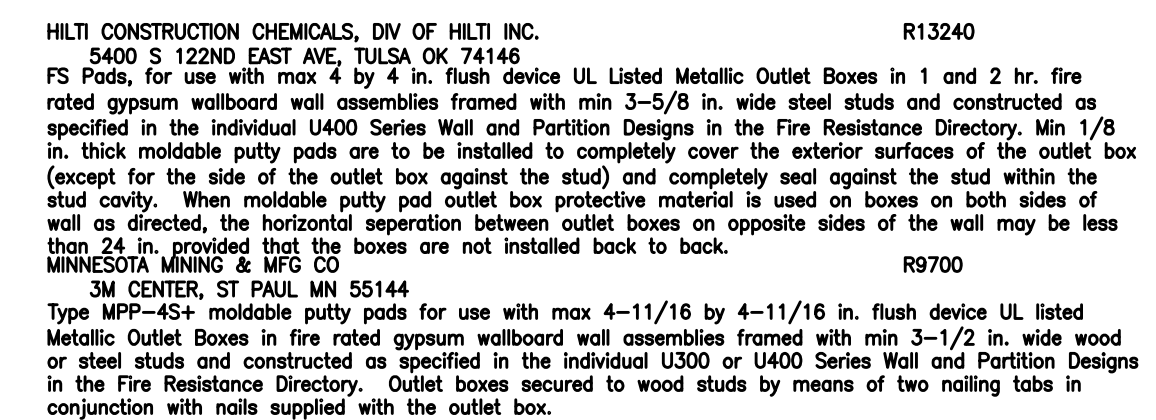


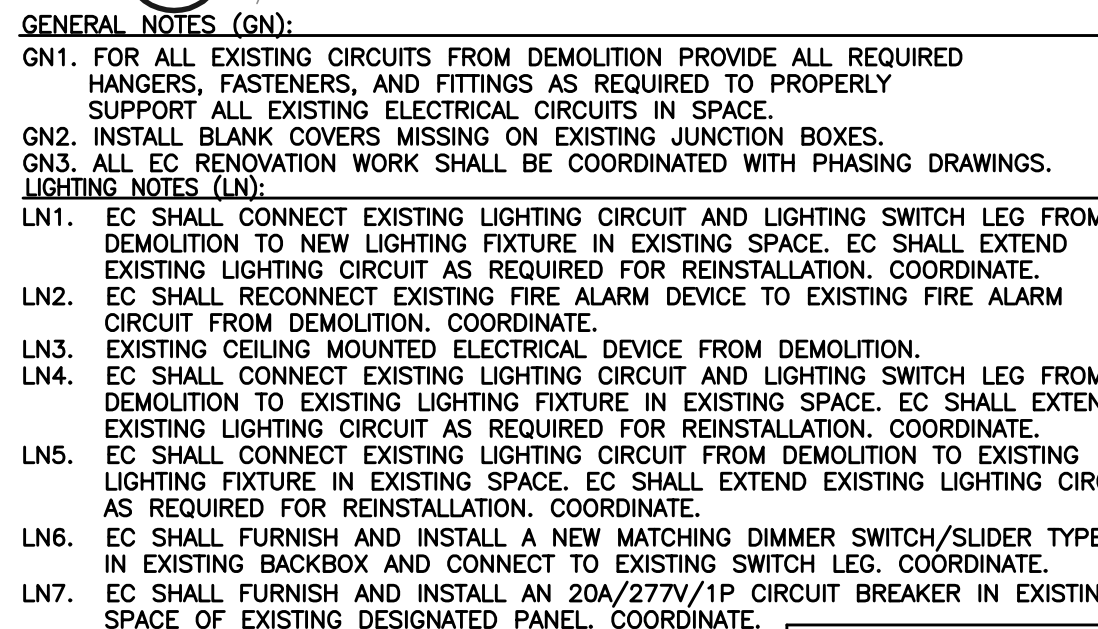
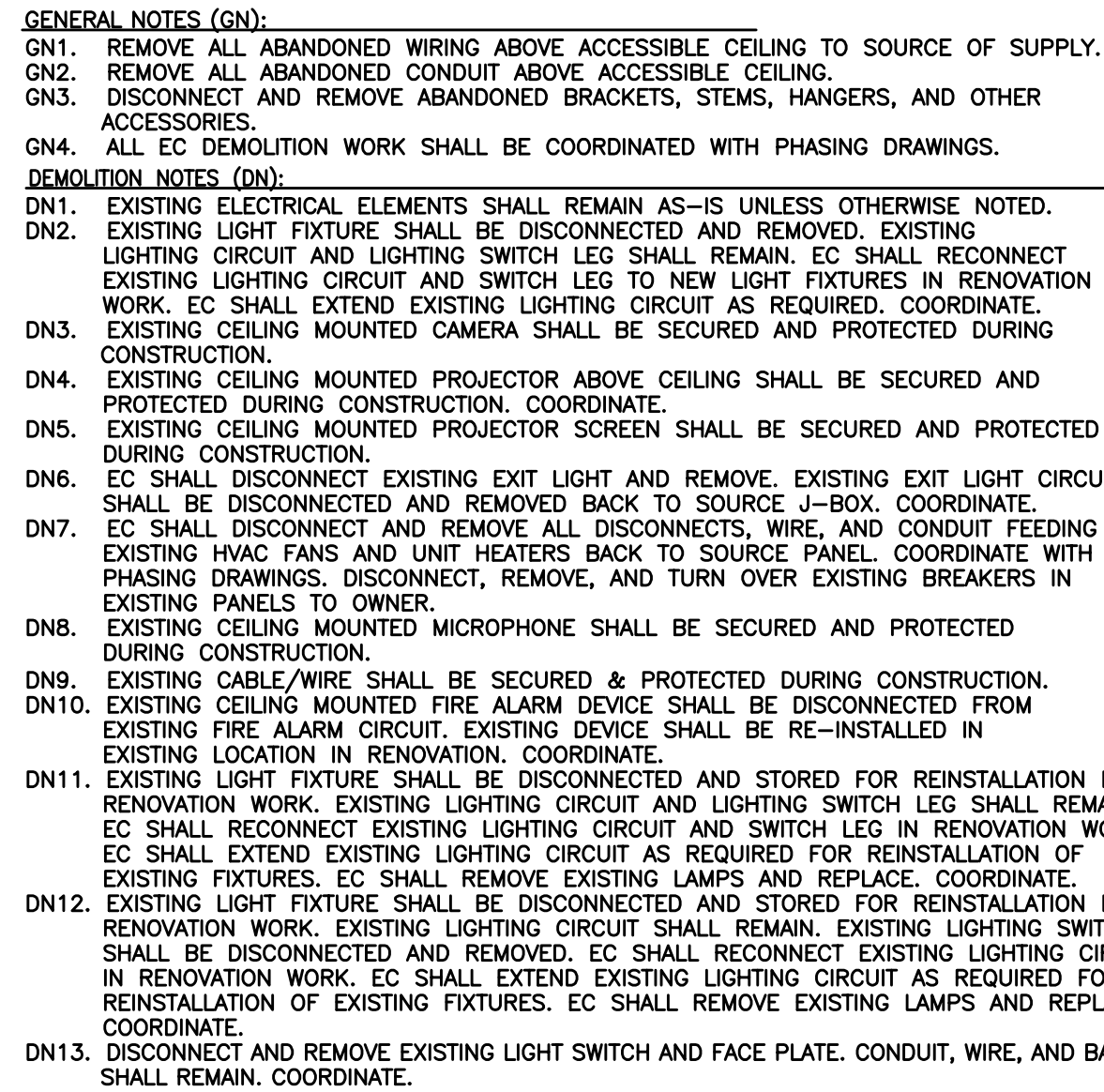
sheet title
**HVAC LEGENDS, NOTES,
ABBREVIATIONS, & DETAILS**

sheet number

M7.1

drawn by JDR
checked by JDR





EQUIPMENT NOTES:
NOTE 1: DIVISION 15 CONTRACTOR TO FURNISH AND INSTALL DISCONNECT. EC TO WIRE.
EC SHALL FURNISH AND INSTALL NEW HACR RATED BREAKER IN EXISTING PANEL.

