

### VRF CONDENSING UNIT SCHEDULE

PLAN MARK	MANUFACTURER AND MODEL NO.	MANUFACTURER AND MODEL NO.	NOMINAL TONS	COOL CAP MBH	HEAT CAP MBH	REFRIGERANT	VOLTAGE/PHASE	MCA/MOCP	NO. COMP	COMP. MAX START AMPS	COMP. RLA AMPS	MOTOR STARTER	NO. FANS	FAN OUTPUT(KW)	WEIGHT (LBS)	L x W x H (IN)
CU-1-1	LG ARUN290BT2		24	286.6	322.5	TANDEM UNITS	SEE NEXT 3 ROWS FOR INDIVIDUAL UNIT INFORMATION									
A		LG ARUN096BT2	8	96	108	R410A	208/3φ	42/60	2	103.9	8.5+18.7	INTEGRAL	2	0.35	628	29 x 51 x 64
B		LG ARUN096BT2	8	96	108	R410A	208/3φ	42/60	2	103.9	8.5+18.7	INTEGRAL	2	0.35	628	29 x 51 x 64
C		LG ARUN096BT2	8	96	108	R410A	208/3φ	42/60	2	103.9	8.5+18.7	INTEGRAL	2	0.35	628	29 x 51 x 64
CU-2-1	LG ARUN173BT2		14.5	191.1	225	TANDEM UNITS	SEE NEXT 2 ROWS FOR INDIVIDUAL UNIT INFORMATION									
A		LG ARUN096BT2	8	96	108	R410A	208/3φ	42/60	2	103.9	8.5+18.7	INTEGRAL	2	0.35	628	29 x 51 x 64
B		LG ARUN075BT2	6.5	76	86	R410A	208/3φ	38/60	2	103.9	8.5+18.7	INTEGRAL	2	0.35	628	29 x 51 x 64
CU-1-2	LG ARUN115BT2		9.5	114.7	129	R410A	208/3φ	44/60	2	75.6	24.8	INTEGRAL	2	0.35	628	29 x 51 x 64

- MINIMUM 10" CLEARANCE AROUND THE CONDENSER COIL, 50" OVERHEAD CLEARANCE, AND 36" SERVICE ACCESS.
- PROVIDE UNITS POWER AT 208 VOLT AND 3 PHASE AT 60 HERTZ.
- FACTORY MOUNTED, LIQUID LINE FILTER DRIER, SERVICE VALVES AND FAN.
- FACTORY WIRED.
- FACTORY 2 YEAR PARTS WARRANTY.
- PROVIDE COMPRESSOR WITH CRANKCASE HEATER AND MINIMUM 5 YEAR WARRANTY.
- PROVIDE DISCONNECT FOR EACH CU (INSTALLED BY ELECTRICAL CONTRACTOR) COORDINATE PRIOR TO PURCHASE ANY WORK.
- PROVIDE AC SMART CONTROL SYSTEM OR EQUIVALENT TO CONTROL VRF SYSTEM. TIE INTO EMS.

### VRF AIR HANDLING UNIT SCHEDULE

PLAN MARK	MANUFACTURER AND MODEL NO.	UNIT TYPE	NOM. TONS	COOL MBH	NOMINAL CFM	HEAT MBH	VOLTAGE/PHASE	MCA/MOCP	FAN MOTOR WATTS	FAN MOTOR STARTER	WEIGHT (LBS)	L x W x H (IN)
CU-1-1 (1ST FLOOR)												
AHU-1	ARNU363BGA2	DUCT HIGH STATIC	3.0	36.2	1140/1025/895	40.6	208/1	4.3/15	390	INTEGRAL	85	47x18x12
AHU-2	ARNU283BGA2	DUCT HIGH STATIC	2.5	28.0	915/850/770	31.5	208/1	4.5/15	390	INTEGRAL	85	47x18x12
AHU-4	ARNU243BGA2	DUCT HIGH STATIC	2.0	24.1	650/600/550	27.3	208/1	2.3/15	118	INTEGRAL	60	35x18x12
AHU-5A	ARNU363BGA2	DUCT HIGH STATIC	3.0	36.2	1140/1025/895	40.6	208/1	4.3/15	390	INTEGRAL	85	47x18x12
AHU-5B	ARNU243BGA2	DUCT HIGH STATIC	2.0	24.1	650/600/550	27.3	208/1	2.3/15	118	INTEGRAL	60	35x18x12
AHU-6	ARNU243BGA2	DUCT HIGH STATIC	2.0	24.1	650/600/550	27.3	208/1	2.3/15	118	INTEGRAL	60	35x18x12
AHU-7	ARNU283BGA2	DUCT HIGH STATIC	2.5	28.0	915/850/770	31.5	208/1	4.5/15	390	INTEGRAL	85	47x18x12
AHU-8A	ARNU183BHA2	DUCT HIGH STATIC	1.5	19.1	550/475/440	21.5	208/1	2.3/15	118	INTEGRAL	60	35x18x12
AHU-8B	ARNU123BHA2	DUCT HIGH STATIC	1.0	12.3	425/350/300	13.6	208/1	2.3/15	118	INTEGRAL	60	35x18x12
AHU-9	ARNU123BHA2	DUCT HIGH STATIC	1.0	12.3	425/350/300	13.6	208/1	2.3/15	118	INTEGRAL	60	35x18x12
AHU-10	ARNU283BGA2	DUCT HIGH STATIC	2.5	28.0	915/850/770	31.5	208/1	4.5/15	390	INTEGRAL	85	47x18x12
AHU-11	ARNU363BGA2	DUCT HIGH STATIC	3.0	36.2	1140/1025/895	40.6	208/1	4.3/15	390	INTEGRAL	85	47x18x12
AHU-12	ARNU183BHA2	DUCT HIGH STATIC	1.5	19.1	550/475/440	21.5	208/1	2.3/15	118	INTEGRAL	60	35x18x12
AHU-13	NOT IN USE											
AHU-14	ARNU073B1G2	DUCT LOW STATIC	0.75	7.5	300/265/225	8.5	208/1	1.2/15	28	INTEGRAL	50	34x22x8
AHU-15	ARNU183BHA2	DUCT HIGH STATIC	1.5	19.1	550/475/440	21.5	208/1	2.3/15	118	INTEGRAL	60	35x18x12
AHU-16	ARNU123B1G2	DUCT LOW STATIC	1.0	12.3	375/335/300	13.6	208/1	1.2/15	28	INTEGRAL	50	34x22x8
AHU-17	ARNU073B1G2	DUCT LOW STATIC	0.75	7.5	300/265/225	8.5	208/1	1.2/15	28	INTEGRAL	50	34x22x8
CU-2-1 (2ND FLOOR)												
AHU-18	NOT IN USE											
AHU-19	ARNU283BGA2	DUCT HIGH STATIC	2.5	24.1	915/850/770	31.5	208/1	4.5/15	390	INTEGRAL	85	47x18x12
AHU-20	ARNU123B1G2	DUCT LOW STATIC	1.0	12.3	375/335/300	13.6	208/1	1.2/15	28	INTEGRAL	50	34x22x8
AHU-21	ARNU093BHA2	DUCT HIGH STATIC	1.0	12.3	350/300/265	13.6	208/1	2.3/15	118	INTEGRAL	60	35x18x12
AHU-22	ARNU183BHA2	DUCT HIGH STATIC	1.25	15.4	475/425/300	17.1	208/1	2.3/15	118	INTEGRAL	60	35x18x12
AHU-23	ARNU073BHA2	DUCT HIGH STATIC	0.5	7.5	245/230/210	8.5	208/1	2.3/15	118	INTEGRAL	60	35x18x12
AHU-24	ARNU093B1G2	DUCT LOW STATIC	0.5	9.6	335/300/265	10.9	208/1	1.2/15	28	INTEGRAL	50	34x22x8
AHU-25	ARNU243BGA2	DUCT HIGH STATIC	2.0	24.1	650/600/550	27.3	208/1	2.3/15	118	INTEGRAL	60	35x18x12
AHU-26	NOT IN USE											
AHU-27	ARNU183BHA2	DUCT HIGH STATIC	1.5	19.1	550/475/440	21.5	208/1	2.3/15	118	INTEGRAL	60	35x18x12
AHU-28	ARNU183BHA2	DUCT HIGH STATIC	1.5	19.1	550/475/440	21.5	208/1	2.3/15	118	INTEGRAL	60	35x18x12

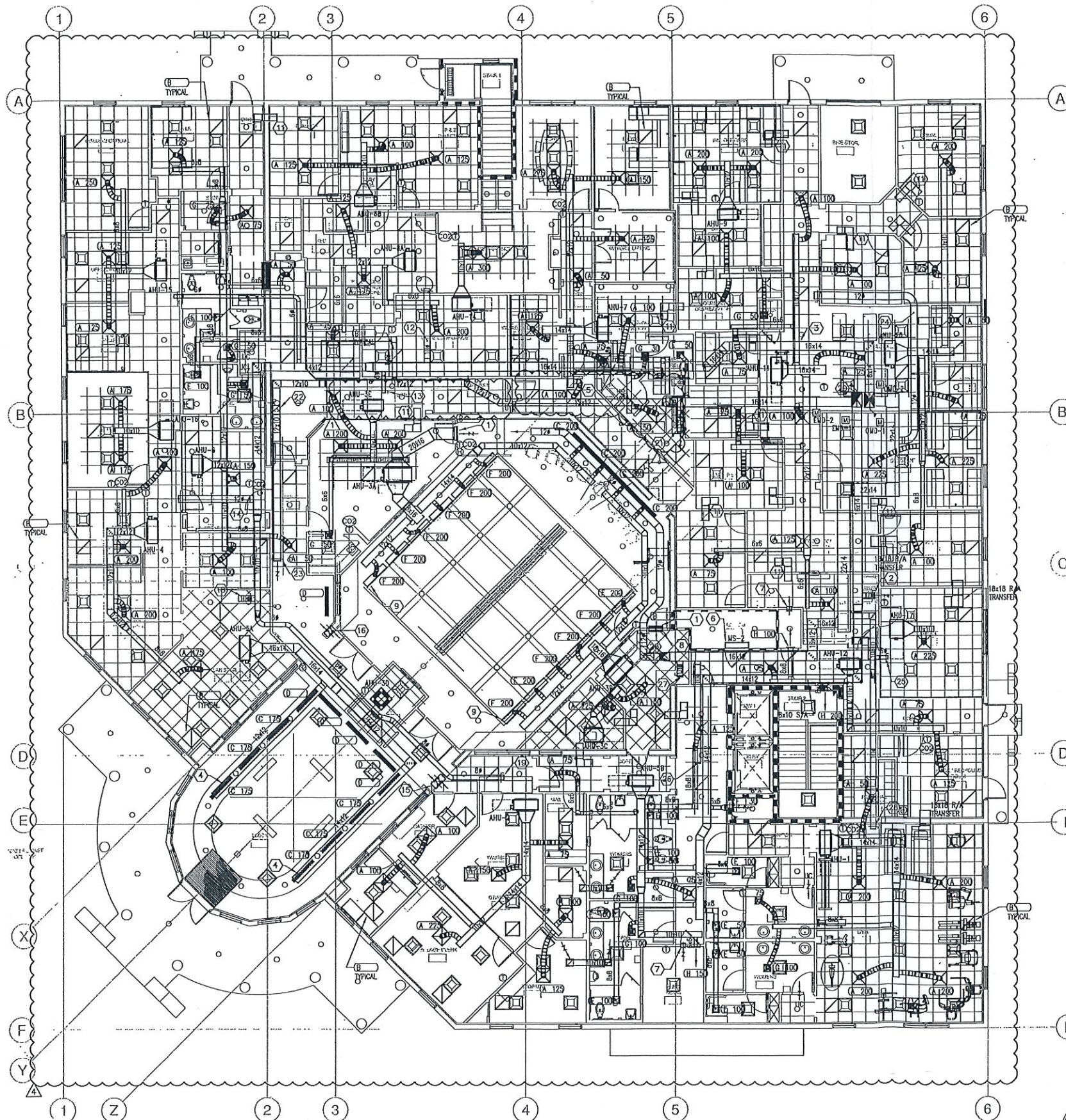
### VRF AIR HANDLING UNIT SCHEDULE (CONTINUED)

PLAN MARK	MANUFACTURER AND MODEL NO.	UNIT TYPE	NOM. TONS	COOL MBH	SENSIBLE MBH	NOMINAL CFM	HEAT MBH	VOLTAGE/PHASE	MCA/MOCP	FAN MOTOR WATTS	FAN MOTOR STARTER	WEIGHT (LBS)	L x W x H (IN)
CU-1-2 (CHAMBERS)													
AHU-3A	ARNU483BRA2	DUCT HIGH STATIC	4.0	41.5	31.9	1580/1435	51.5	208/1	4.5/15	390	INTEGRAL	120	49x23.5x15
AHU-3B	ARNU483BRA2	DUCT HIGH STATIC	4.0	41.5	31.9	1580/1435	51.5	208/1	4.5/15	390	INTEGRAL	120	49x23.5x15
AHU-3C	ARNU073B1G2	DUCT LOW STATIC	0.5	6.5	5.2	300/265	8.5	208/1	1.2/15	28	INTEGRAL	50	34x22x8
AHU-3D	ARNU093TEC2	CEILING CASSETTE	0.5	9.6	7.5	320/280/250	10.9	208/1	1.3/15	35	INTEGRAL	40	23x23x11
AHU-3E	ARNU183BHA2	DUCT HIGH STATIC	1.5	19.1	15.0	550/475/440	21.5	208/1	2.3/15	118	INTEGRAL	60	35x18x12

- 0.50
- NOTES:
- MINIMUM 36" CLEARANCE PER NEC.
  - FACTORY 1 YEAR PARTS WARRANTY.
  - AHU ARE SINGLE PHASE POWER.
  - AHU WITH INTERNAL DRAIN PAN AND CONDENSATE PUMP.
  - PROVIDE INTEGRAL MOTOR STARTER DISCONNECT FOR AHU.
  - PROVIDE A LIQUID LINE SOLENOID VALVE INSTALLED AT THE AHU IF THE INSTALLED LINEAL LENGTH OF THE REFRIGERANT LIQUID LINES EXCEEDS 75 FT OR THE VERTICAL RUN EXCEEDS 30 FT (FIELD VERIFY).
  - PROVIDE A SUCTION LINE ACCUMULATOR IF THE INSTALLED LINEAL LENGTH OF THE REFRIGERANT SUCTION LINES EXCEEDS 100 FT OR THE VERTICAL RUN EXCEEDS 50 FT (FIELD VERIFY).
  - PROVIDE FACTORY PROGRAMMABLE THERMOSTAT.
  - PROVIDE FACTORY MOUNTED FUSIBLE DISCONNECT/STARTER FOR AHU, COORDINATE PRIOR PURCHASING.
  - PROVIDE REFRIGERANT LINES SIZES AS RECOMMENDED BY MANUFACTURER, NOT TO EXCEED 150 FT. EQUIVALENT LENGTH FOR LONGER RUNS COORDINATE WITH MANUFACTURER PRIOR TO PURCHASE ANY WORK.
  - PROVIDE SET OF SHUT-OFF BALL VALVES FOR EACH AHU FOR ISOLATION.
  - PROVIDE AC SMART CONTROLS OR EQUIVALENT. TIE INTO EMS.
  - PROVIDE MANUFACTURER REUSABLE FILTER.



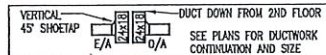
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1 HVAC - FIRST FLOOR PLAN  
SCALE: 1/8" = 1'-0"

**KEYED NOTES**

- 1 MOUNT 24x24 RETURN AIR GRILLE IN WALL, WITH BOTTOM OF GRILLE ABOVE ADJACENT ROOM CEILING AND TOP OF GRILLE BELOW CHAMBERS CEILING. ORIENT GRILLE SO THE 35° LOWER BLADES POINT TOWARD CHAMBERS CEILING.
- 2 10"Ø SHEET METAL EXHAUST DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 270 CFM.
- 3 RUN 16x14 OUTSIDE AIR DUCT OVER 10x12 SUPPLY AIR DUCT. AVOID CROSSING UNDERNEATH SLAB BEAM. COORDINATE IN FIELD.
- 4
- 5 6"Ø INSULATED SHEET METAL DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 130 CFM.
- 6 HANG AIR HANDLING UNIT ON WALL ABOVE DOOR.
- 7 6x8 RETURN AIR TRANSFER IN WALL, MOUNT AT HEIGHT ABOVE CEILING IN ADJACENT SPACE.
- 8 INSTALL 24x24 RETURN AIR OPENING IN STAFF 148 WALL, ABOVE VILLAGE CHAMBERS CEILING, FOR AIR TRANSFER.
- 9 INSTALL LINEAR BAR SUPPLY DIFFUSERS IN LIGHT TRIGGER SPACE. INSTALL BAR DIFFUSERS "UPSIDE DOWN" SO THAT THE LOWERED BARS DEFLECT THE AIRFLOW UPWARD. TYPICAL OF ALL 7" AIR DISTRIBUTION TAGS.
- 10 6x8 RETURN AIR TRANSFER IN WALL WITH FIRE DAMPER, MOUNT AT HEIGHT ABOVE CEILING IN ADJACENT SPACE.
- 11 TYPICAL 12x12 TRANSFER BOOT IN WALL ABOVE CEILING. SEE DETAIL ON SHEET M5.1.
- 12 10"Ø INSULATED SHEET METAL DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 170 CFM.
- 13 6"Ø INSULATED SHEET METAL DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 70 CFM.
- 14 12"Ø INSULATED SHEET METAL DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 275 CFM.
- 15 24x24 RETURN AIR OPENING IN WALL ABOVE CEILING.
- 16 18x30 RETURN AIR OPENING IN WALL ABOVE CEILING.
- 17 6"Ø INSULATED SHEET METAL DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 40 CFM.
- 18 10"Ø INSULATED SHEET METAL DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 210 CFM.
- 19 6"Ø INSULATED SHEET METAL DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 105 CFM.
- 20 24x18 GALVANIZED OUTSIDE AIR AND EXHAUST AIR DUCTS DOWN FROM 2ND FLOOR CHASE ABOVE. PROVIDE VERTICAL 45° SHOE TAPS FOR MAIN BRANCH TAKEOFFS.
- 21 12"Ø SHEET METAL EXHAUST DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 350 CFM.
- 22 RUN 12x10 DUCT ABOVE LOW CEILING AND LIGHT AND THEN ELBOW DOWN TO RUN UNDERNEATH THE BEAM.
- 23 12x10 SHEET METAL EXHAUST DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 400 CFM.
- 24 12"Ø INSULATED SHEET METAL DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 325 CFM. RUN DUCT HIGH ABOVE RETURN AIR TRANSFER BOOT AND AHU'S.
- 25 6"Ø INSULATED SHEET METAL DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 75 CFM.
- 26 10"Ø INSULATED SHEET METAL DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 200 CFM.
- 27 10"Ø INSULATED SHEET METAL DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 350 CFM.
- 28 12"Ø INSULATED SHEET METAL DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 200 CFM. RUN UP TO ABOVE CHAMBERS CEILING HEIGHT AND THEN INTO CEILING ABOVE CHAMBERS.



**GENERAL NOTES:**

1. CONTRACTOR SHALL PROVIDE MANUAL VOLUME DAMPERS IN ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DUCTS AS REQUIRED TO BALANCE THE SYSTEM TO THE SCHEDULED AIRFLOWS SHOWN ON THESE PLANS.
2. CONTRACTOR SHALL PROVIDE CABLE OPERATED DAMPER FOR MANUAL VOLUME DAMPERS INSTALLED OVER HARD CEILING OR OTHER INACCESSIBLE LOCATIONS. FIELD COORDINATE.
3. THE SPACE ABOVE THE CEILING IS A RETURN PLENUM, NO COMBUSTIBLE MATERIALS ARE ALLOWED.
4. PROVIDE 18" UNOBSTRUCTED CLEARANCE BEHIND AIR HANDLING UNITS FOR AIR INTAKE.
5. CONTRACTOR SHALL COORDINATE ALL REFRIGERANT PIPING RUN-OUT ABOVE THE CEILING IN FIELD. SEE SHEET M2.4 FOR PIPING PLAN.

**RECORD SET**

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CHECKED BY: XXX

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50% REVIEW 10.30.2009  
PERMIT REVIEW 11.20.2009  
BUILDING PERMIT 03.03.2010

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▲ PERMIT COMMENTS 4/02/10  
▲ DESIGN CHANGES 8/11/10

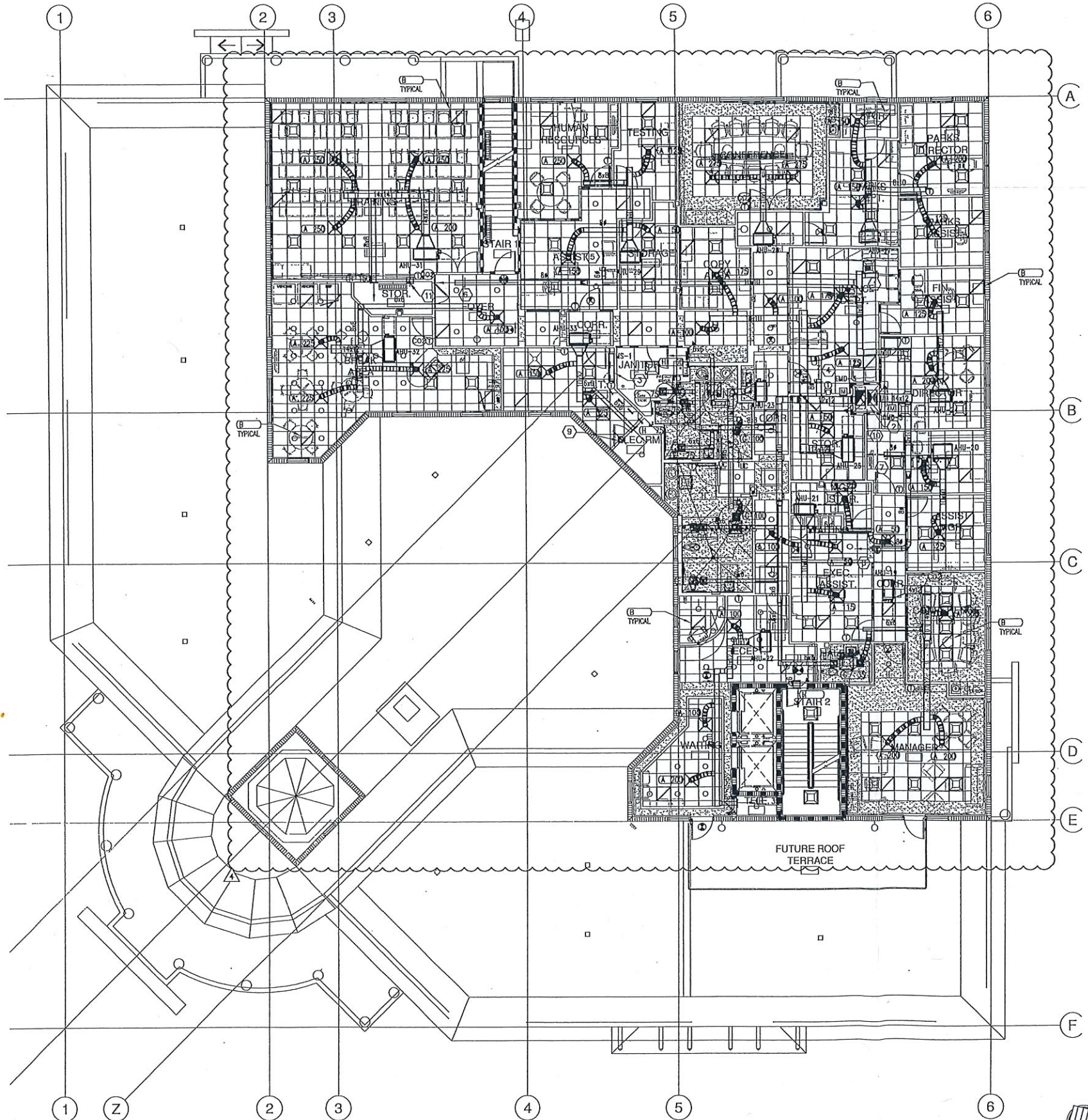
HVAC  
FIRST FLOOR  
PLAN

M2.1

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**KEYED NOTES**

- ① 8"Ø INSULATED SHEET METAL DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 135 CFM.
- ② 26x18 SUPPLY AND RETURN DUCTS, IN CHASE, FROM ORTU-1 ABOVE.
- ③ MOUNT AHU-1 BETWEEN 60" A.F.F. AND STRUCTURE AS NECESSARY TO ACCOMMODATE WIDTH OF UNIT AND TO AVOID DOOR SWING.
- ④ 8"Ø SHEET METAL EXHAUST DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 175 CFM.
- ⑤ 6"Ø INSULATED SHEET METAL DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 65 CFM.
- ⑥ 8"Ø INSULATED SHEET METAL DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 175 CFM.
- ⑦ 10"Ø INSULATED SHEET METAL DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 200 CFM.
- ⑧ 8"Ø INSULATED SHEET METAL DUCT WITH MANUAL VOLUME DAMPER, BALANCE FOR 135 CFM.
- ⑨ 8x8 RETURN AIR TRANSFER ABOVE CEILING
- ⑩ 24x18 GALVANIZED OUTSIDE AIR AND EXHAUST AIR DUCTS DOWN THROUGH ORTU-1 ABOVE. PROVIDE VERTICAL 45° SHOE TAPS FOR MAIN BRANCH TAKEOFFS.

VERTICAL  
45° SHOE TAP

DUCT DOWN FROM 2ND FLOOR  
SEE PLANS FOR DUCTWORK  
CONTINUATION AND SIZE

- ⑪ 12x12 AIR TRANSFER OPENING IN WALL ABOVE Foyer CEILING.

**GENERAL NOTES:**

1. CONTRACTOR SHALL PROVIDE MANUAL VOLUME DAMPERS IN ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DUCTS AS REQUIRED TO BALANCE THE SYSTEM TO THE SCHEDULED AIRFLOWS SHOWN ON THESE PLANS.
2. CONTRACTOR SHALL PROVIDE CABLE OPERATED DAMPER FOR MANUAL VOLUME DAMPERS INSTALLED OVER HARD CEILING OR OTHER INACCESSIBLE LOCATIONS. FIELD COORDINATE.
3. THE SPACE ABOVE THE CEILING IS A RETURN PLENUM, NO COMBUSTIBLE MATERIALS ARE ALLOWED.
4. PROVIDE 18" UNOBSTRUCTED CLEARANCE BEHIND AIR HANDLING UNITS FOR AIR INTAKE.
5. CONTRACTOR SHALL COORDINATE ALL REFRIGERANT PIPING RUN-OUT ABOVE THE CEILING IN FIELD. SEE SHEET M2.5 FOR PIPING PLAN.

1 HVAC - SECOND FLOOR PLAN  
SCALE: 1/8" = 1'-0"

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BUILDING PERMIT 03.03.2010

REVISIONS:  
A DESIGN CHANGES 8/11/10

HVAC  
SECOND FLOOR  
PLAN

**RECORD SET**  
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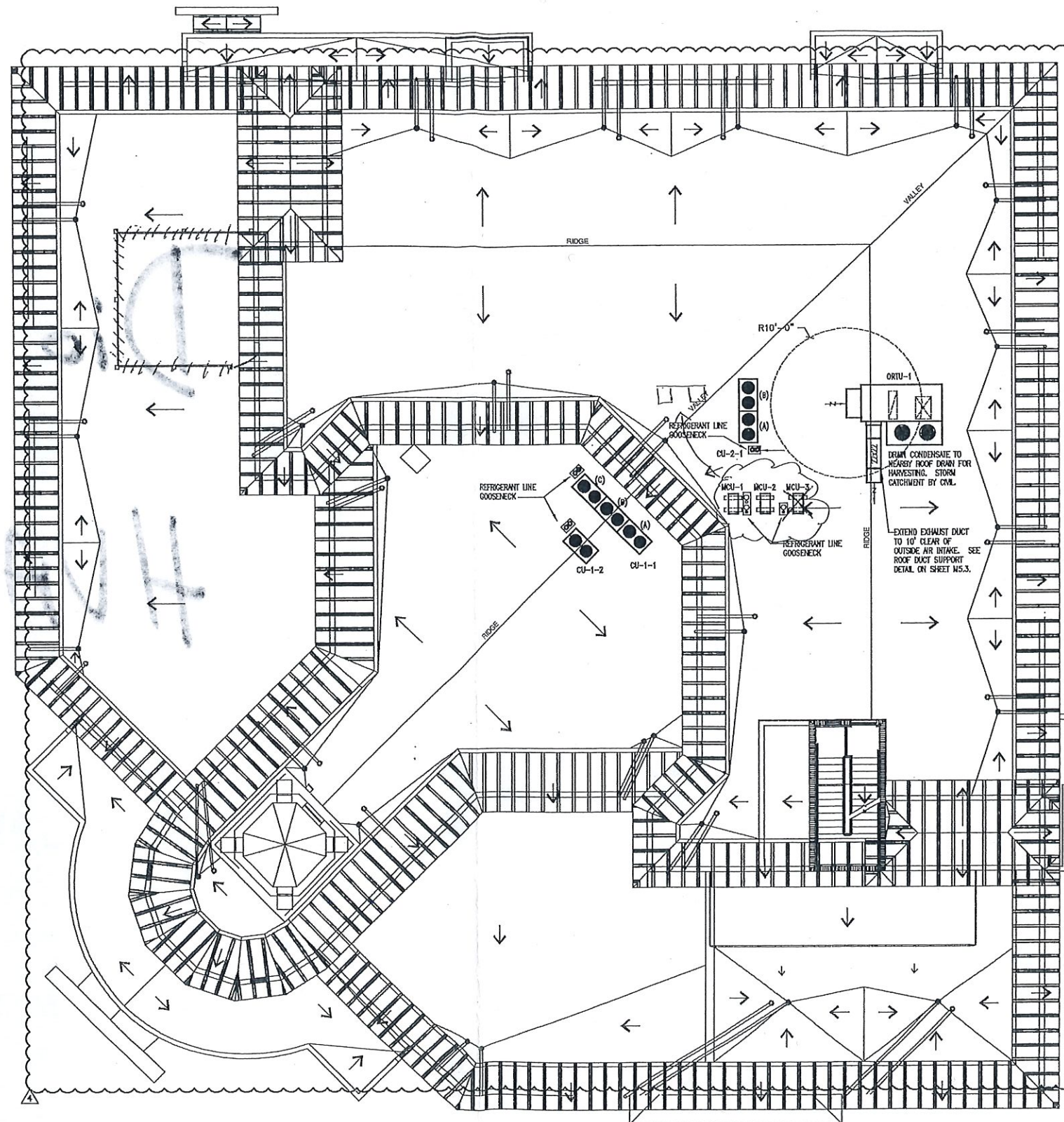
**M2.2**

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Handwritten notes: "G. Reg. Room" and "H.A." with arrows pointing to specific areas on the roof plan.



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



**RECORD SET**  
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HVAC  
ROOF PLAN

REVISIONS:

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M2.3