LEGEND

ABBREVIATIONS DESCRIPTIONS

AAV	AIR ADMITTANCE VALVE	GPH	GALLONS PER HOUR
AHU	AIR HANDLING UNIT	GPM	GALLONS PER MINUTE
AFF	ABOVE FINISHED FLOOR	HD	HEAD
BFF	BELOW FINISHED FLOOR	HP	HORSEPOWER
CD	CONDENSATE DRAIN	HW	HOT WATER (DHW)
CFM	CUBIC FEET PER MINUTE	ID	INSIDE DIAMETER
CO	CLEAN OUT	KES	KITCHEN EXHAUST SYSTEM
COND	CONDENSATE	KSF	KITCHEN SUPPLY FAN
CONN.	CONNECTION	LSW	LOW SIDE WALL
CONTR	CONTRACTOR	MAX	MAXIMUM
CU	CONDENSING UNIT	NPT	NATIONAL PIPE THREAD
DN	DOWN	NTS	NOT TO SCALE
DEG. or °	DEGREE	OA	OUTSIDE AIR
DIFF. or Δ	DIFFERENCE OR DELTA	OD	OUTSIDE DIAMETER
DIA OR ø	DIAMETER	OC	ON CENTER DISTANCE
DMPR	DAMPER	RA	RETURN AIR
EA	EXHAUST AIR	RAFG	RETURN AIR FILTER GRILL
ED	EQUIPMENT DRAIN	RH	RELATIVE HUMIDITY
EF	EXHAUST FAN	RTU	ROOF TOP UNIT
EL	ELEVATION	SA	SUPPLY AIR
ESP	EXTERNAL STATIC PRESSURE (IN. WG.)	SAN	SANITARY SEWER
EWH	ELECTRIC WATER HEATER	SD	SMOKE DETECTOR
EXT	EXISTING	SS	SANITARY SEWER
FCO	FLOOR CLEAN OUT	SP	STATIC PRESSURE
FD	FIRE DAMPER	SPEC	SPECIFICATION
F.F. ELEV.	FINISHED FLOOR ELEVATION	ST	STORM SEWER (OR CONDENSATE)
FPM	FEET PER MINUTE	TYP	TYPICAL
FPH	FEET PER HOUR	V	VOLT
FPS	FEET PER SECOND	VAV	VARIABLE AIR VOLUME
GAL	GALLONS		

PIPE LABELS, FITTINGS, & VALVES

- CONDENSATE LINE (COND)
- COLD WATER LINE (DOMESTIC)
- CHILLED WATER SUPPLY LINE
- CHILLED WATER RETURN LINE
- HOT WATER LINE (DOMESTIC) SUPPLY (F)
- HOT WATER LINE (DOMESTIC)
- HOT WATER RETURN LINE
- HOT WATER SUPPLY LINE
- NATURAL GAS LINE (NG)
- SANITARY SEWER LINE (SAN)(SS)
- STORM DRAIN, RAINWATER DRAIN (SD,ST)
- RISER DOWN (ELBOW)
- RISER UP (ELBOW)
- RISER OR DROP
- REDUCER CONNECTION
- BRANCH–BOTTOM CONNECTION
- CAP ON END OF PIPE
- ELBOW
- TEE
- UNION
- STRAINER
- GAS COCK, GAS STOP
- PLUG VALVE (PV)
- STRAINER

DUCT WORK

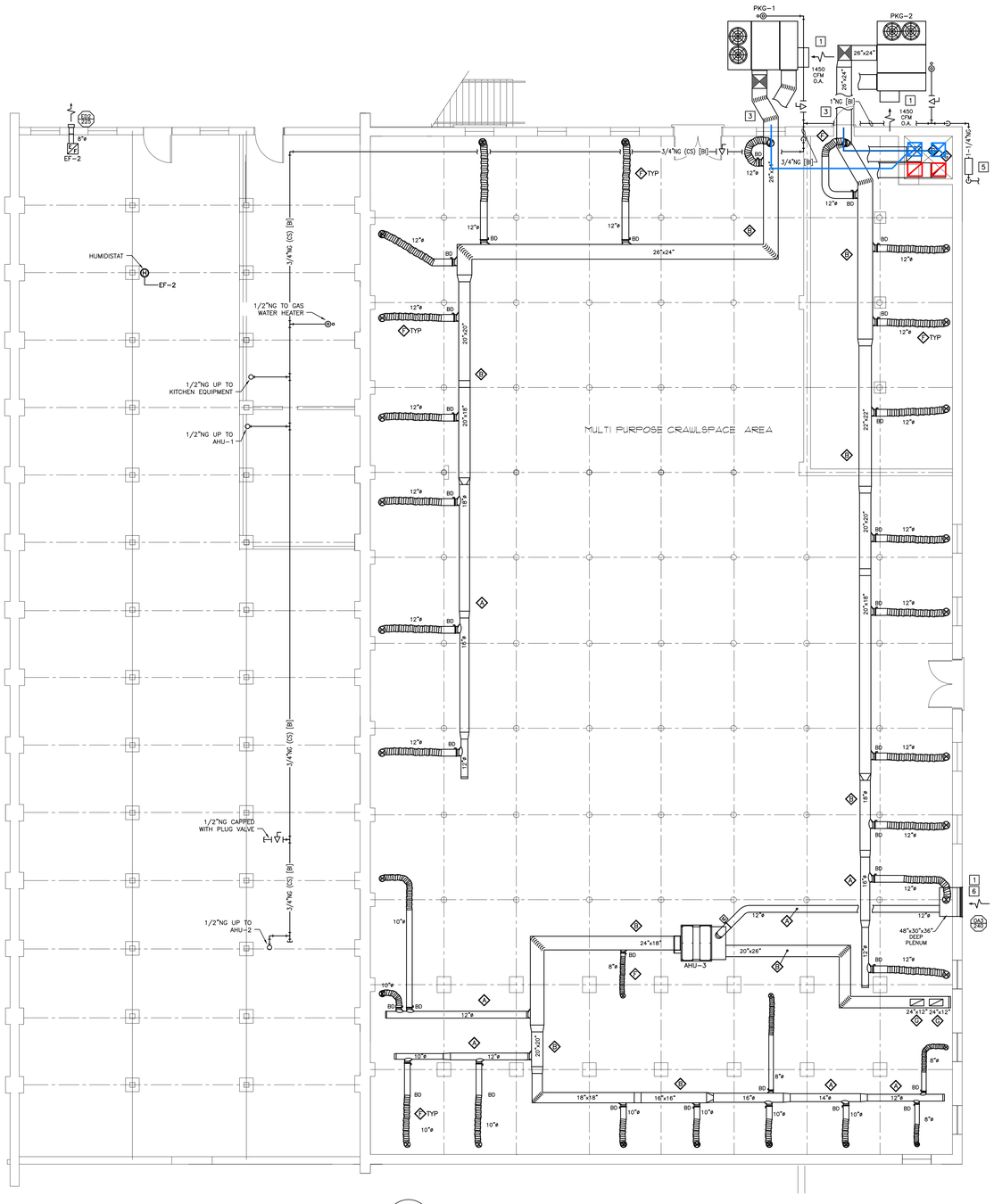
- SUPPLY AIR DUCT UP
- SUPPLY AIR DUCT DOWN
- EXHAUST/RETURN/OUTSIDE AIR UP
- EXHAUST/RETURN/OUTSIDE AIR DOWN
- CEILING SUPPLY DIFFUSER
- CEILING RETURN DIFFUSER
- EXHAUST / SUPPLY FAN
- SIDEWALL AIR DIFFUSER / DOOR GRILLE
- HORIZONTAL DUCT WORK
- RECT. TO ROUND DUCT SIZE TRANSITION
- DUCT SIZE TRANSITION
- TRANSITION AND FLEXIBLE DUCT
- BOOT WITH BALANCING DAMPER
- AIR DEVICE TAG/ CFM

SYMBOLS

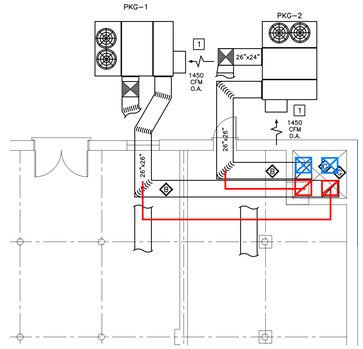
- FIRE DAMPER
- FIRE PENETRATION. DETAIL NUMBER REFERENCE
- COMBINATION FIRE & SMOKE DAMPER
- ZONE DAMPER
- INDICATES KEY NOTES
- CONDENSATE PUMP
- MOTORIZED BALANCING DAMPER
- SMOKE DETECTOR w/ FAN SHUTDOWN
- DUCT CONSTRUCTION TYPE
- THERMOSTAT/SENSOR – "C" STEEL COVER.
- AIRFLOW ARROW
- FLOOR DRAIN SQUARE STRAINER (TO)
- EQUIPMENT DRAIN (ED)
- POINT OF CONNECTION
- LOW VOLTAGE SMOKE DETECTOR ANNUNCIATOR

MECHANICAL KEY NOTES

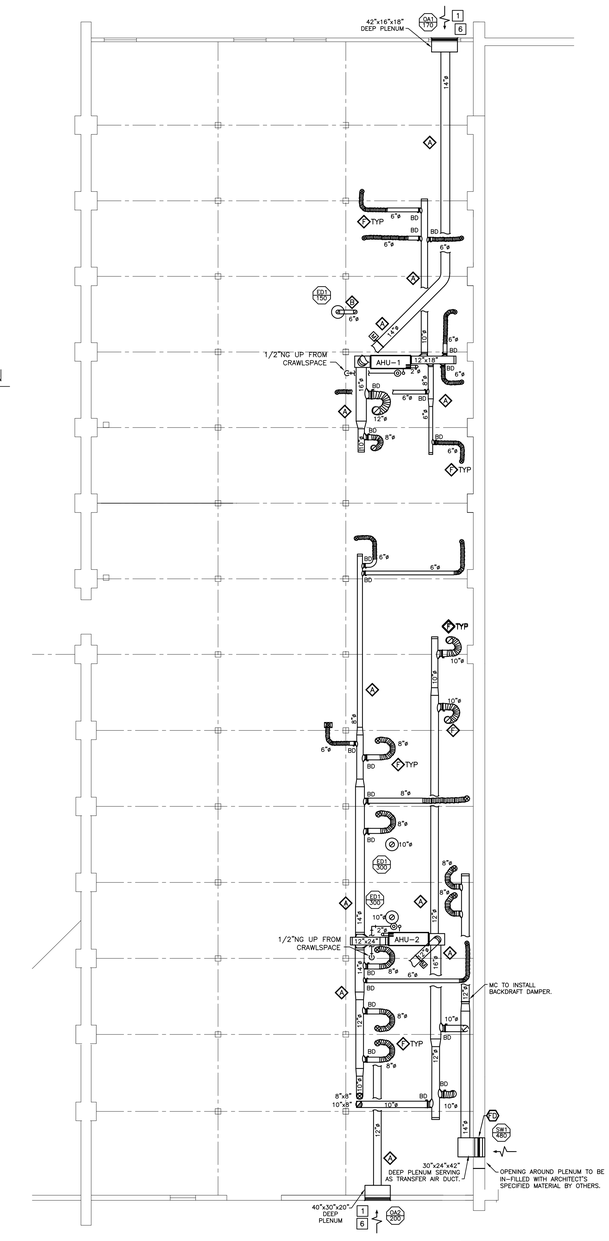
1. OUTDOOR AIR VENTILATION IS DESIGNED IN COMPLIANCE WITH IMC 2012 CHAPTER 4 AND ASHRAE 62.4–2007.
2. RESIDENTIAL RANGE HOOD TO INCLUDE GUARDIAN III FIRE SUPPRESSION SYSTEM. INCLUDE HORN STROBE ANNUNCIATOR, GAS SOLENOID, REMOTE PULL STATION AND TEST – CERTIFICATION FOR JURISDICTION HAVING AUTHORITY.
3. SUPPLY DUCTWORK TO BE INSTALLED OVER TOP OF RETURN DUCTWORK. DUCTWORK TO PENETRATE THROUGH EXISTING DOOR OR WINDOW. MC TO SEAL AROUND PENETRATIONS AS REQUIRED BY ARCHITECT TO PREVENT MOISTURE AND INSECTS FROM ENTERING CRAWLSPACE. SEE SCHEDULE FOR EXTERIOR DUCT INSULATION REQUIREMENTS.
4. MC TO COORDINATE EXHAUST DUCT WITH EXHAUST HOOD CONNECTION. SEE GENERAL CONTRACTOR.
5. MC TO INSTALL NEW 1000 CUFT/HR 2 PSI GAS METER.
6. LOUVER IS INTENDED TO FIT WINDOW OPENING WIDTH. CONFIRM IN–FIELD WITH GC. ADJUST PLENUM SIZES ACCORDINGLY.



A M–2 HVAC BASEMENT PLAN
SCALE: 1/8" = 1'–0"



B M–2 PACKAGE HVAC RETURN BASEMENT PLAN
SCALE: 1/8" = 1'–0"



C M–2 HVAC UPSTAIRS/ATTIC PLAN
SCALE: 1/8" = 1'–0"

OWNER REQUESTED CHANGES
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HVAC PLAN

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