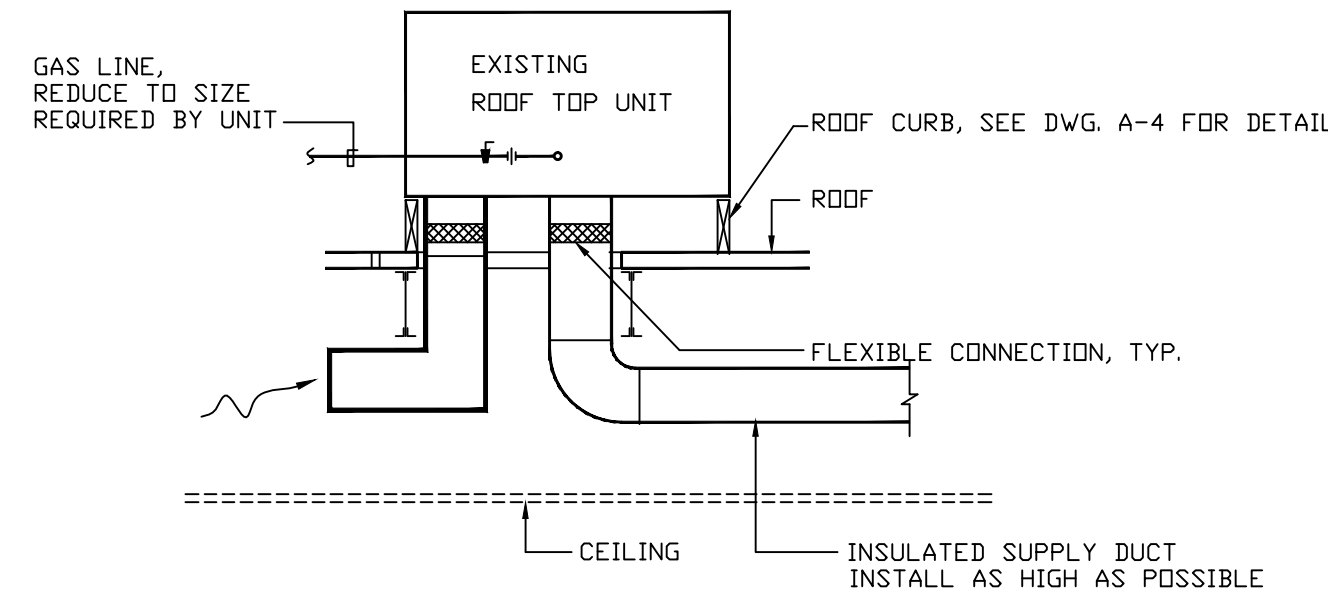


MECHANICAL NOTES:

- 1- NEW DUCT WORK AND REPAIRS TO THE EXISTING DUCT WORK SHALL BE IN ACCORDANCE WITH THE LATEST "SMACNA" AND "ASHRAE" GUIDELINES, AND LOCAL CODES AND REGULATIONS. FLEXIBLE DUCTS WHERE USED SHALL BE LIMITED IN LENGTH TO 6' W/ MAX. TWO NINETY DEGREE BENDS. PROVIDE RIGID INSULATED ROUND DUCT AS REQUIRED TO MEET LIMITATION ON FLEX. DUCT LENGTH. ALL METAL AND FLEX. DUCTS SHALL BE INSULATED WITH 1-1/2" FIBER GLASS AND VAPOR BARRIER FOR METAL DUCTS, 1" INSULATED FOR FLEX. DUCTS. WHERE FLEXIBLE DUCTS CROSSING WALLS, PROVIDE METAL DUCT AT WALL INSTEAD AND SEAL ALL AROUND.
- 2- ALL CEILING GRILLS AND DIFFUSERS SHALL BE WHITE BAKED ENAMEL FINISH.
24"x24" SUPPLY DIFFUSER SHALL BE 'TITUS' MODEL TMS, RETURN DIFFUSER SHALL MATCH SUPPLY SUPPLY DIFFUSER NECK SIZES SHALL BE AS REQUIRED FOR THE AMOUNT OF CFM INDICATED. PROVIDE ADJUSTMENT DAMPERS IN DUCT AS REQUIRED FOR AIR FLOW ADJUSTMENT FOR SUPPLY DIFFUSERS. WHERE EXISTING SUPPLY AND RETURN REGISTERS REQUIRED TO REMAIN, THIS CONTRACTOR SHALL CLEAN TO LIKE NEW CONDITION, OTHERWISE REPLACE WITH NEW TO MATCH EXISTING. SITE DETERMINE PRIOR TO THE BIDDING.
- 3- CONTRACTOR SHALL PERFORM ALL WORK REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM EVEN IF NOT SHOWN OR NOTED. SITE VISIT, PRIOR TO THE BIDDING. ALL ITEMS AND EQUIPMENT SHALL BE NEW.
- 4- THE CONTRACTOR SHALL PROCURE THE SERVICE OF AN INDEPENDENT BALANCE AND TESTING AGENCY SPECIALIZING IN THE BALANCING OF HVAC SYSTEMS, TO BALANCE AND TEST THE MECHANICAL SYSTEM. SUBMIT THE REPORT TO THE ARCHITECT FOR APPROVAL. THE CONTRACTOR SHALL ALSO VERIFY OUTDOOR AIR INDICATED AND MAKE ADJUSTMENT REQUIRED FOR THE CFM AIR FLOW.
- 5- ALL DUCT SIZES SHOWN ARE FREE AREA REQUIRED.
- 6- PROVIDE FLEXIBLE CONNECTORS WHERE CONNECTING DUCTS TO HVAC UNITS, VAV BOXES AND FANS.
- 7- FLEXIBLE DUCT SIZES SHALL BE AS FOLLOWING.
0-100 CFM: 6" DIAMETER
101-200 CFM: 8" DIAMETER
201-380 CFM: 10" DIAMETER
381-625 CFM: 12" DIAMETER
626-950 CFM: 14" DIAMETER
- 8- CEILING DIFFUSER NECK SIZES SHALL BE SAME SIZE AS THE FLEXIBLE DUCTS CONNECTING TO IT.
- 9- WHERE SPACE ABOVE CEILING IS USED AS RETURN AIR PLENUM, ALL MATERIAL AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF NFPA AND OTHER APPLICABLE CODES AND REGULATIONS.
- 10- PROVIDE SHOP DRAWINGS AND/OR CATALOG CUTS FOR ALL MECHANICAL EQUIPMENT AND ITEMS, PRIOR TO ORDERING OR MANUFACTURING, FOR APPROVAL.
- 11- CONNECT NEW FLEX. DUCTS TO TOP OR BOTTOM OF METAL DUCT IF SIDE IS NOT WIDE ENOUGH OR ACCESS IS LIMITED TO RECEIVE NEW DUCT.
- 12- PROVIDE ELECTRICAL SPECIFICATION AND CIRCUIT SIZE REQUIREMENTS FOR ALL NEW MECHANICAL UNITS AND COORDINATE WITH THE ELECTRICAL CONTRACTOR. NOTIFY THE ARCHITECT OF ANY CHANGES TO THE REQUIREMENT SHOWN ON THE DRAWINGS.
- 13- SEE GENERAL NOTES DWG. A-0.
- 14- MECHANICAL PERMIT IS REQUIRED, OBTAIN PERMIT PRIOR TO BEGINNING ANY MECHANICAL WORK.
- 15- ALL ROOF CUTS AND FLASHING SHALL BE PERFORMED BY EXISTING ROOF CONTRACTOR TO MAINTAIN WARRANTY.
- 16- PROVIDE COMBINATION FIRE AND SMOKE DAMPER WHERE DUCTS PENETRATION TENANT SEPARATION WALLS, SHAFT WALLS, SHAFT FLOOR AND OTHER FIRE RATED WALLS. DAMPER SHALL BE MINIMUM 1-1/2 HRS. RATED FOR WALLS AND FLOORS RATED 2 HRS. OR LESS. DAMPERS SHALL BE CONNECTED TO FIRE ALARM SYSTEM WHERE FIRE ALARM SYSTEM IS EXISTING OR REQUIRED BY CODE. COORDINATE WITH ELECTRICAL AND FIRE ALARM CONTRACTORS.



ROOF TOP HVAC UNIT

NOT TO SCALE

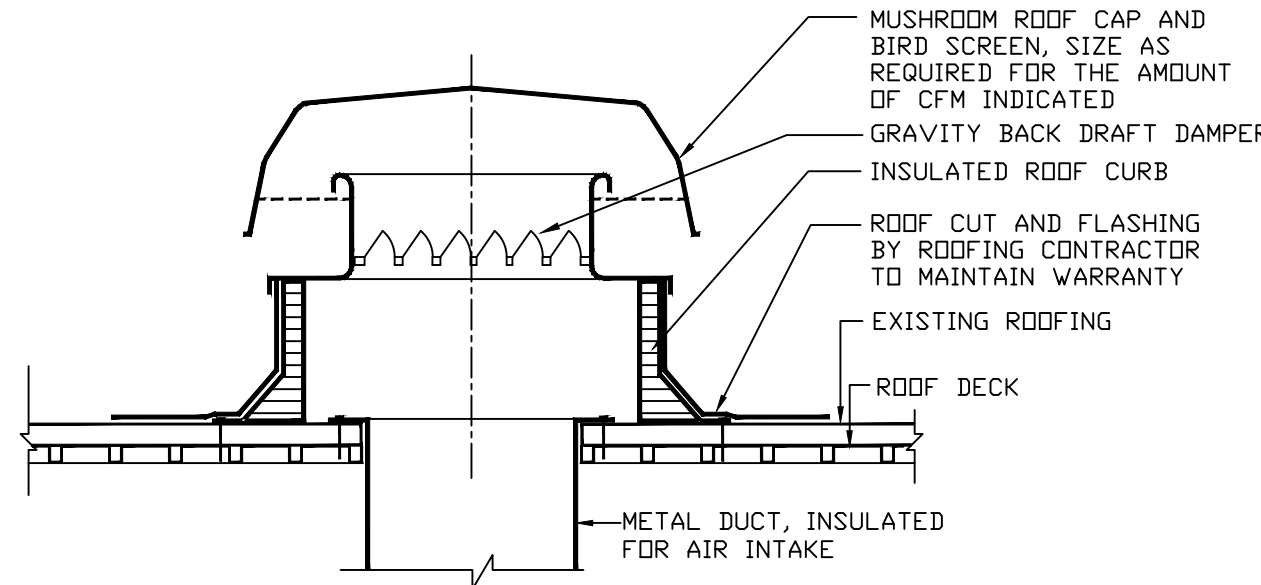
NOTE: METAL DUCT LOCATIONS SHOWN MAY BE MODIFIED IF IN CONFLICT WITH ROOF STRUCTURE AND COMPONENTS

LEGEND

- NEW CEILING SUPPLY REGISTER
- NEW CEILING RETURN REGISTER
- NEW INSULATED FLEXIBLE DUCT
- NEW METAL DUCT
- EXIST. METAL DUCT
- NEW REMOTE SENSOR

EXHAUST FAN NO. 1

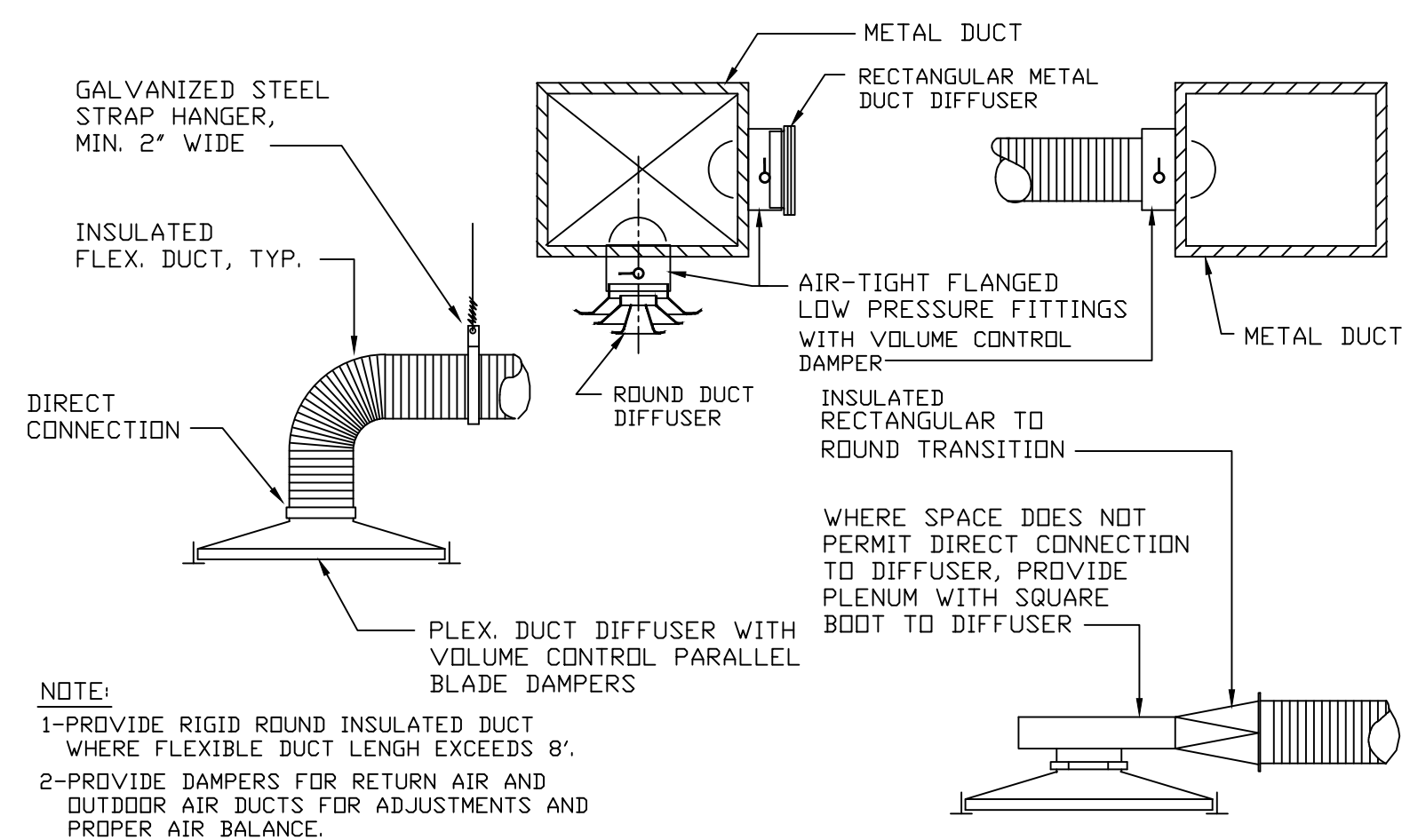
TOILET EXHAUST FAN, 100 CFM, "COOK" LITTLE GEM 60 WATTS, 115V/1PH/60HZ
PROVIDE DUCT THROUGH ROOF WITH MUSHROOM CAP
PROVIDE "COOK" DELUXE PAINTED WHITE GRILL
PROVIDE FLEXIBLE CONNECTION BETWEEN DUCT AND FAN
INSTALL FAN WITH VIBRATION ISOLATOR



DETAIL-MUSHROOM ROOF CAP

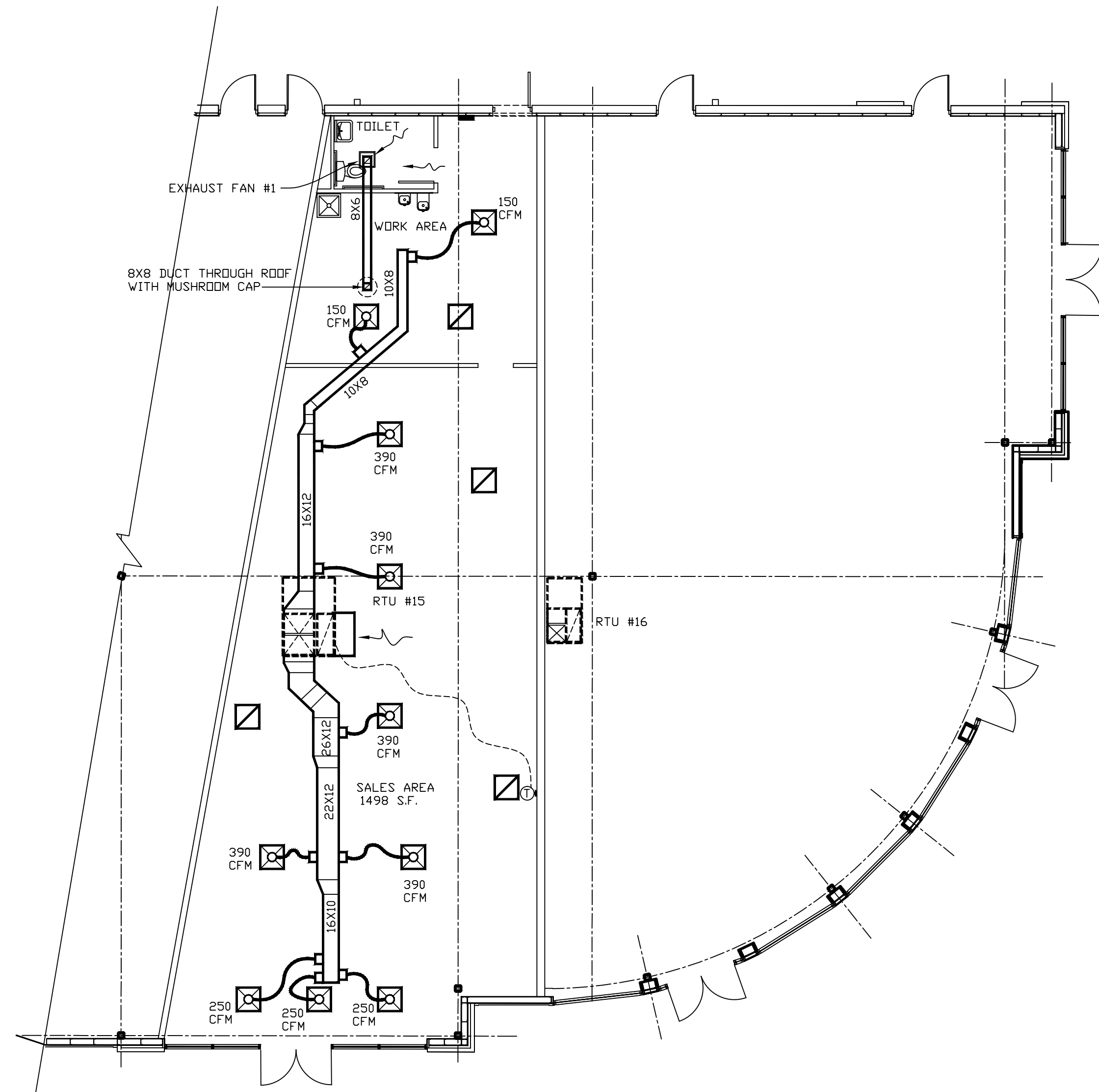
NOT TO SCALE

NOTE: MUSHROOM CAP SHALL BE "COOK" WITH ROOF CURB.



TYP. FLEXIBLE DUCT DETAILS

NOT TO SCALE



MECHANICAL PLAN

SCALE: 1/8"=1'-0"

ROOF TOP UNIT SCHEDULE

RTU NO.	TYPE	NOM. TON	TOTAL CFM	ESP	EER	OUTDOOR AIR CFM	ECONOMIZER	COOLING NET MBH	HEATING		FUEL	ELECTRIC DATA	MAX. OP. WEIGHT	MANUF. & MODEL NO.
									MBH (IN)	MBH (OUT)				
EXISTING RTU #15		7.5	3000			600	YES	90.0	1ST STA. 120.00 2ND STA. 180.00	1ST STA. 98.40 2ND STA. 147.60	GAS PROPANE	208/3/60 MCA: 44.25A FLA: 35.40A MDP: 45.00A WITH CONVENIENT RECEPTACLE AND POWER EXHAUST	1200 LB	CARRIER-48HU-008

- NOTE: 1- PROVIDE SUPPLY AND RETURN DUCT SMOKE DETECTOR AS REQUIRED BY CODE, IF NOT EXISTING (SITE DETERMINE PRIOR TO THE BIDDING).
2- PROVIDE PROGRAMMABLE THERMOSTAT, IF NOT EXISTING (SITE DETERMINE PRIOR TO THE BIDDING).
3- COORDINATE CIRCUIT BREAKER SIZE AND UNIT AMPS WITH ELECTRICAL CONTRACTOR AND MAKE ADJUSTMENT IF NECESSARY.
4- CHECK UNITS FOR PROPER OPERATION AND INSTALL NEW FILTER AFTER COMPLETION OF CONSTRUCTION.

SPECIFIC AREA OUTDOOR AIR CALCULATIONS:

RETAIL SPACE AREA: +-2000 S.F. @ .30/S.F.=600 CFM O.A. REQUIRED
600 CFM O.A. PROVIDED

NOTE: OUTDOOR AIR WILL BE ADJUSTED AS REQUIRED FOR ANY TENANT OCCUPANCY.

CERTIFICATION:

I, ALI R ZARGARIAN, AIA, CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND I AM DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 7627-A, EXPIRATION DATE: 5-16-2011

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REVISIONS:

DRAWING TITLE:

MECHANICAL PLAN, NOTES

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PROJECT NO.

092471

ISSUE DATES:

10-30-2009 PERMIT

APPROVED BY:

TENANT: _____ DATE: _____
LANDLORD: _____ DATE: _____

DRAWING NO.

M1

SHEET NO.

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